

APPENDIX H
Wet Weather MLS Scatterplots and Trend Data

The data collected from MLS stations for the past eight years are presented in this Appendix; also included in the scatterplots are historical data for Agua Hedionda Creek, Tecolote Creek, and Chollas Creek MLS. The Regional Water Quality Control Board (RWQCB) Order R9-2007-0001 (Permit) required that monitoring alternate between the north and south portions of San Diego County. No samples were collected for Tecolote Creek, San Diego River, Sweetwater River and Tijuana River for the 2007-2008 Monitoring Season. Sample concentrations that were below detection limits are shown as one-half the detection limit. Mann-Kendall Trend analysis, described in Appendix B-Methods, was performed by MLS on all of the constituents. Sen's Slope estimates are shown on the scatterplots for those constituents with less than 15% non-detect results for which the regression line was determined to be significantly different than a horizontal line. Summary trend results for significant trends are shown in the following table for these constituents. The scatterplots are presented by group as shown below.

WMA	Analyte	p-value	Trend	% ND	Sen's Slope Estimate
AHC	Chemical Oxygen Demand	0.029	Up	3	1.64
AHC	Darsenic	0.022	Down	37	Na
AHC	Diazinon	0.0001	Down	41	Na
AHC	Fecal Coliform	0.0006	Up	3	414
AHC	Total Copper	0.03	Up	14	0.000477
AHC	Total Lead	0.017	Up	24	Na
AHC	Total Nickel	0.039	Up	10	0.000125
AHC	Total Coliform	0.013	Up	0	1606
AHC	Total Suspended Solids	0.005	Up	7	20.1
AHC	Turbidity	0.004	Up	0	5.58
AHC	Total Zinc	0.032	Up	10	0.00176
CC	Diazinon	<0.001	Down	47	Na
CC	Nitrite	0.032	Up	29	Na
CC	Total Copper	0.0129	Up	0	0.000382
CC	Total Dissolved Solids	0.0195	Down	0	-0.875
CC	Total Kjeldahl Nitrogen	0.0295	Up	4	0.0263
CC	Turbidity	0.0066	Up	0	0.506
CC	Total Zinc	0.0028	Up	0	0.00308
EC	Diazinon	<0.001	Down	43	Na
EC	Dissolve Nickel	0.027	Down	19	Na
EC	Total Zinc	0.035	Up	14	0.000933
LPC	Fecal Coliform	0.045	Up	0	41
LPC	Total Lead	0.014	Down	48	Na
SDC	Conductivity	0.048	Up	0	23.54
SDC	Total Kjeldahl Nitrogen	0.033	Up	0	0.0263

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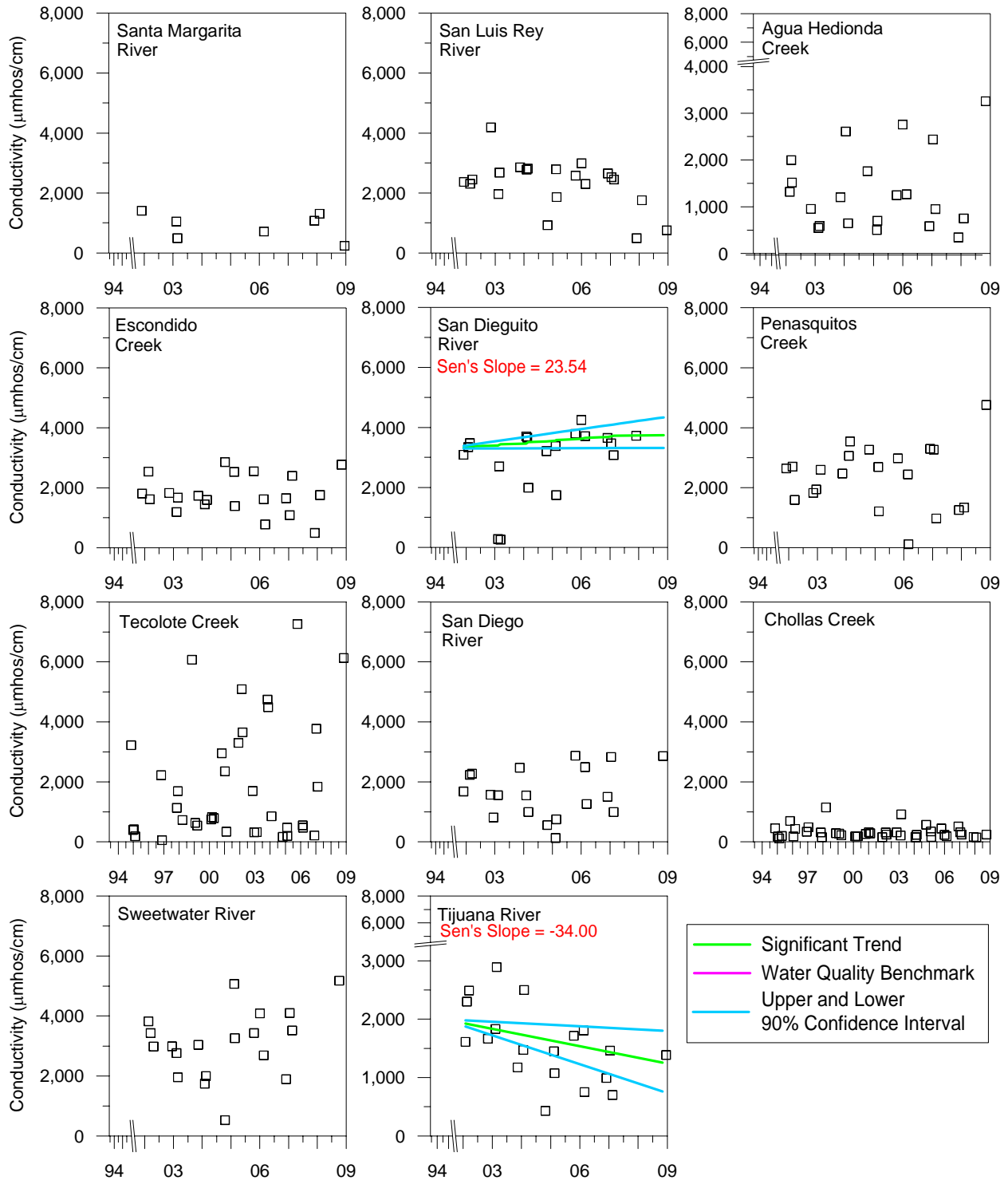
WMA	Analyte	p-value	Trend	% ND	Sen's Slope Estimate
SDC	Total Phosphorus	0.011	Up	0	0.0047
SDR	Dissolved Copper	0.013	Down	39	Na
SDR	Nitrate	0.04	Down	5	-0.013
SLR	Dissolved Phosphorus	0.048	Up	14	0.00859
SLR	Enterococci	0.004	Up	0	137
SLR	Fecal Coliform	0.002	Up	0	76
SLR	Total Coliform	<0.001	Up	0	719
SLR	Total Dissolved Solids	0.033	Down	0	-13.75
SLR	Total Hardness	0.048	Down	0	-6.37
SLR	Turbidity	0.017	Up	0	0.485
SMR	Surfactants MBAS	0.024	Down	44	Na

*For the toxicity trend analysis, "%ND" is equivalent to the proportion of tied results of the total dataset. The rationale for this interpretation is based on the fact that the number of ties in the dataset causes the same issue as a high percentage of non-detects in the dataset

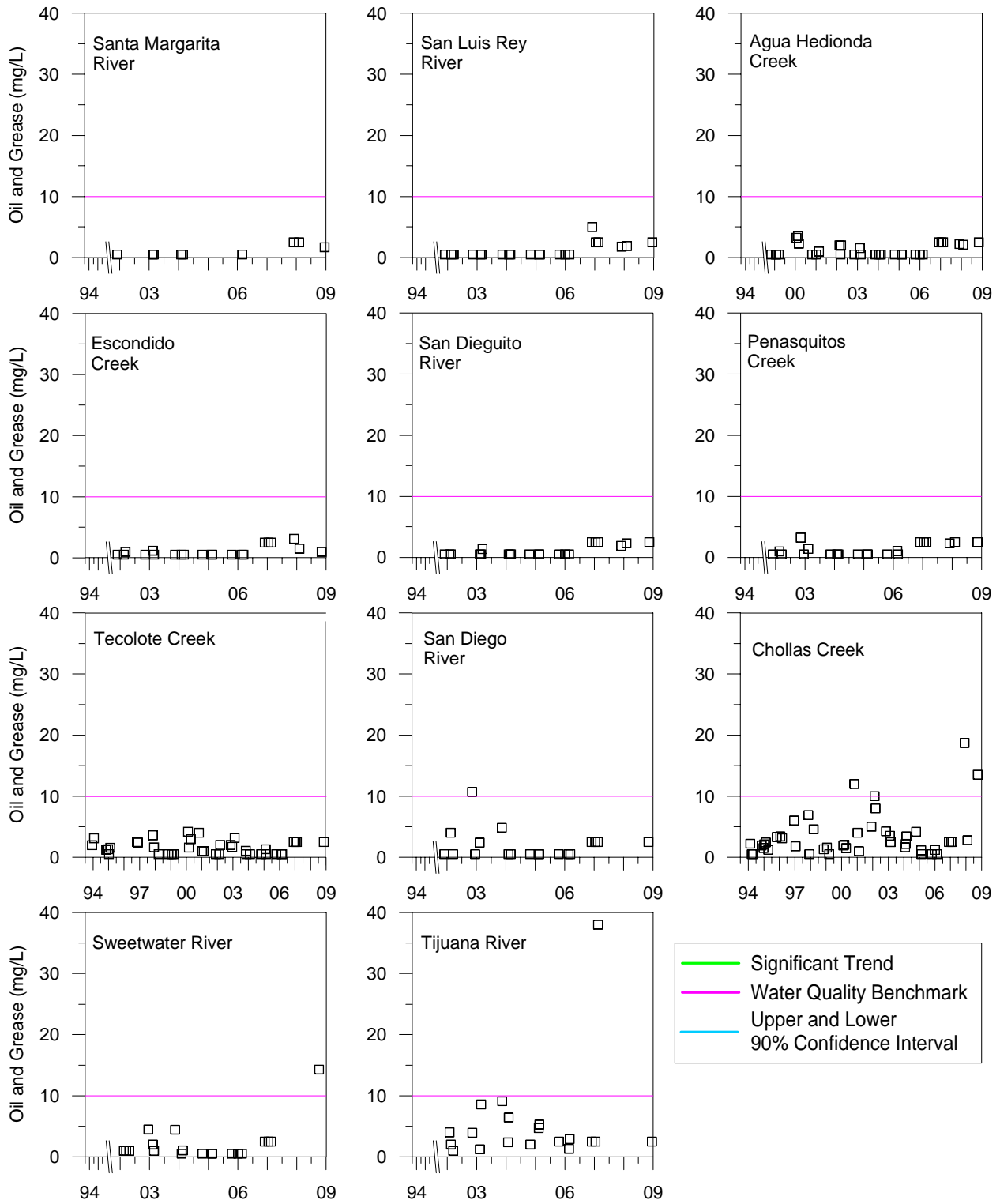
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GENERAL CHEMISTRY

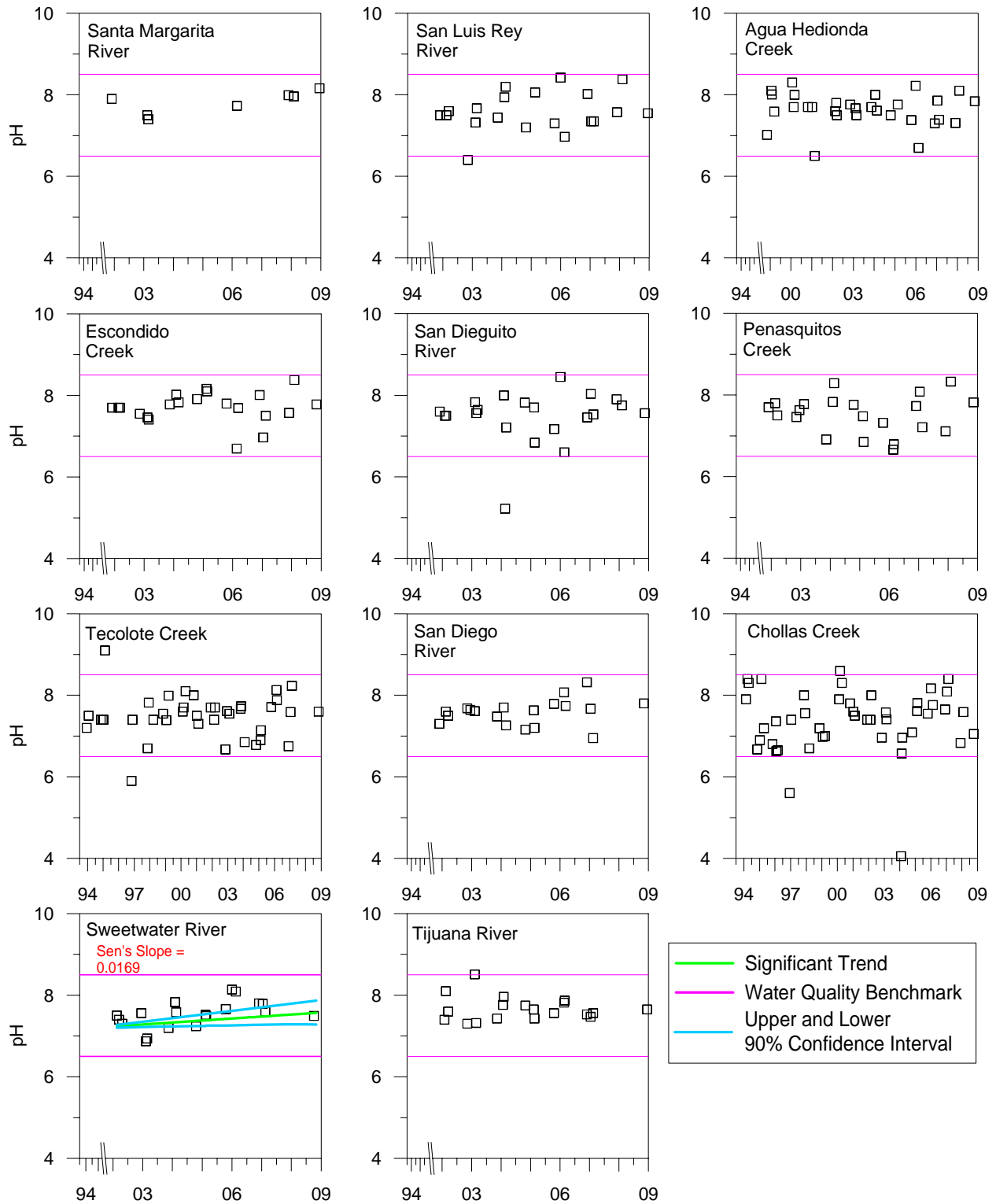
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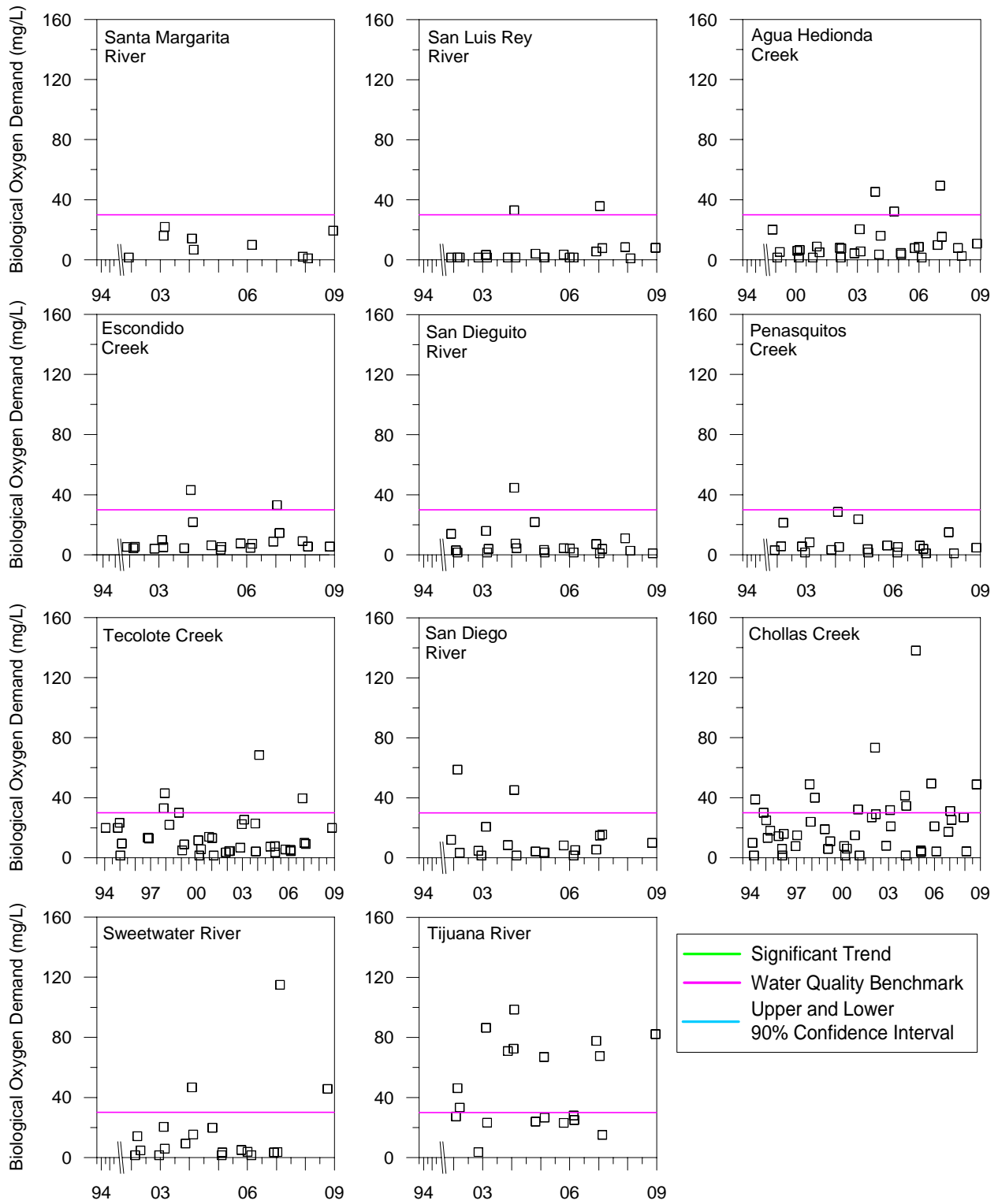
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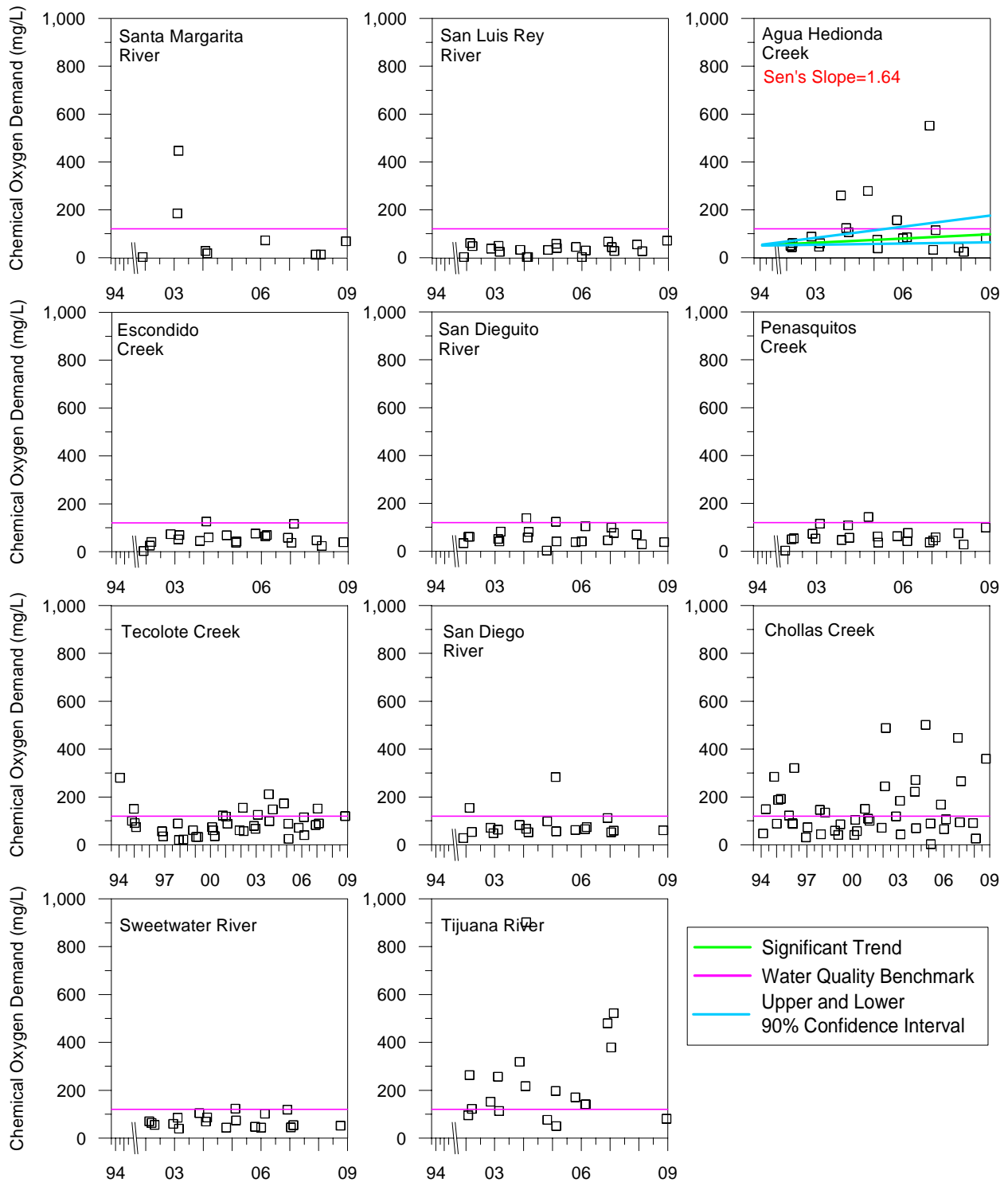
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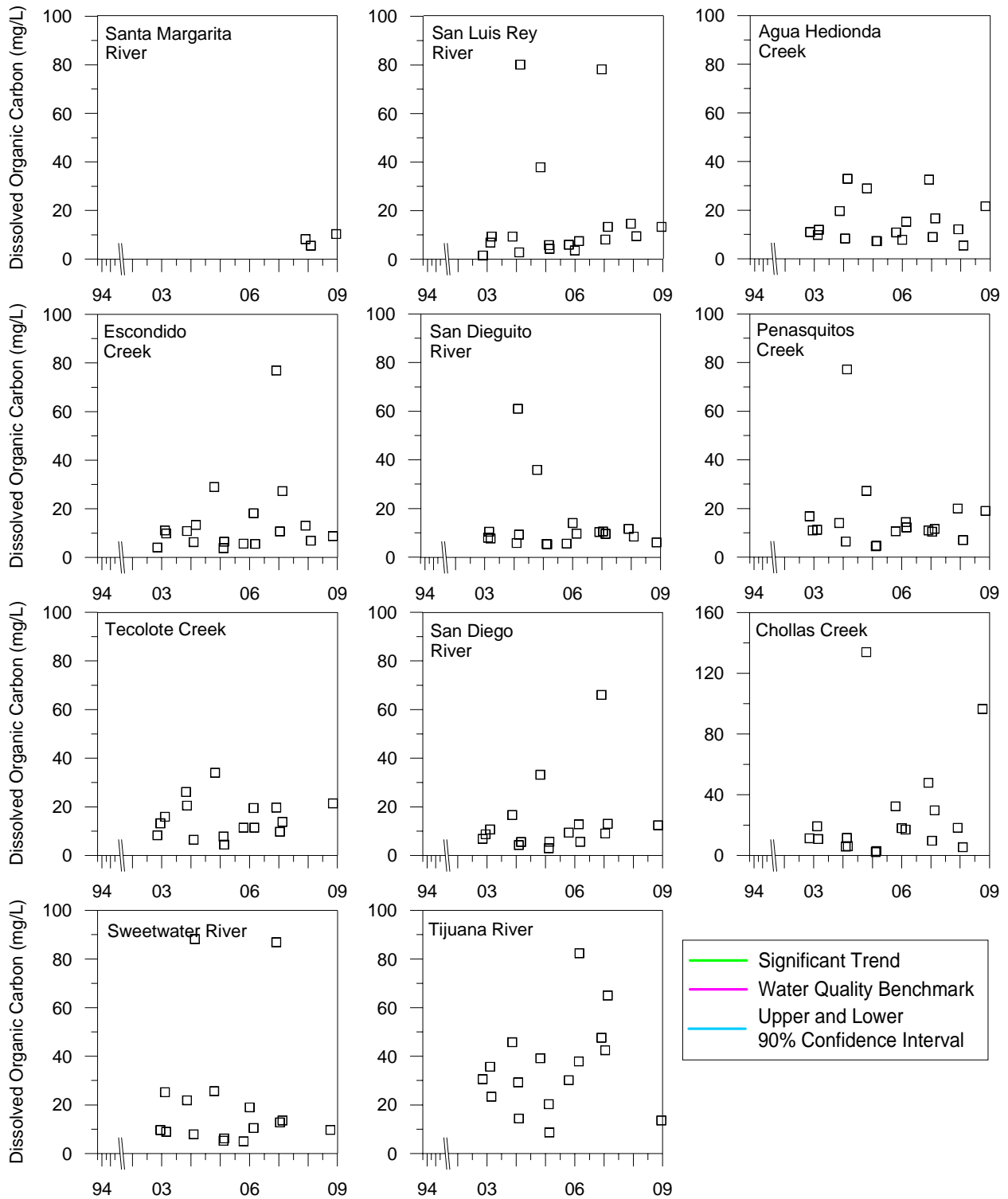
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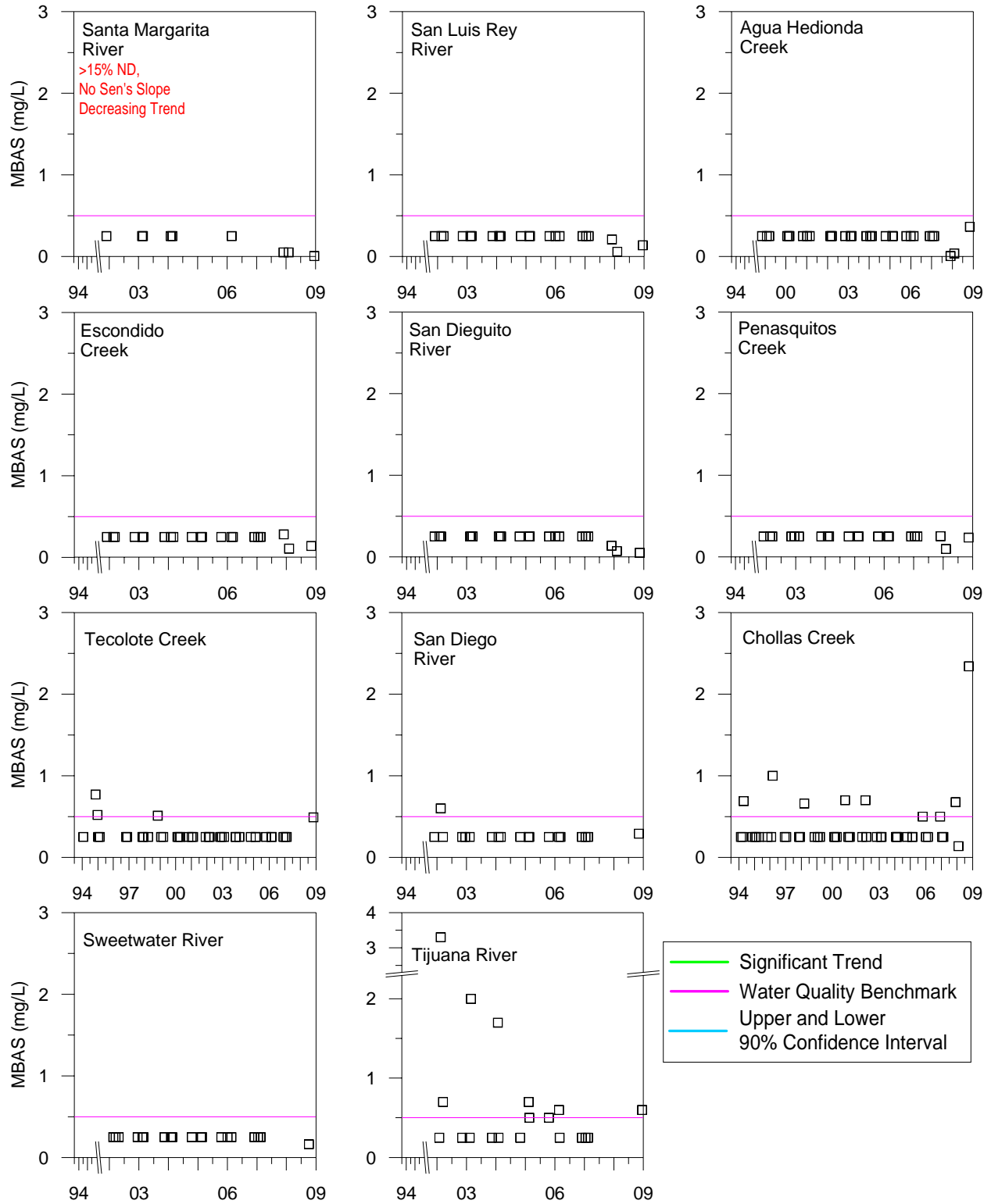
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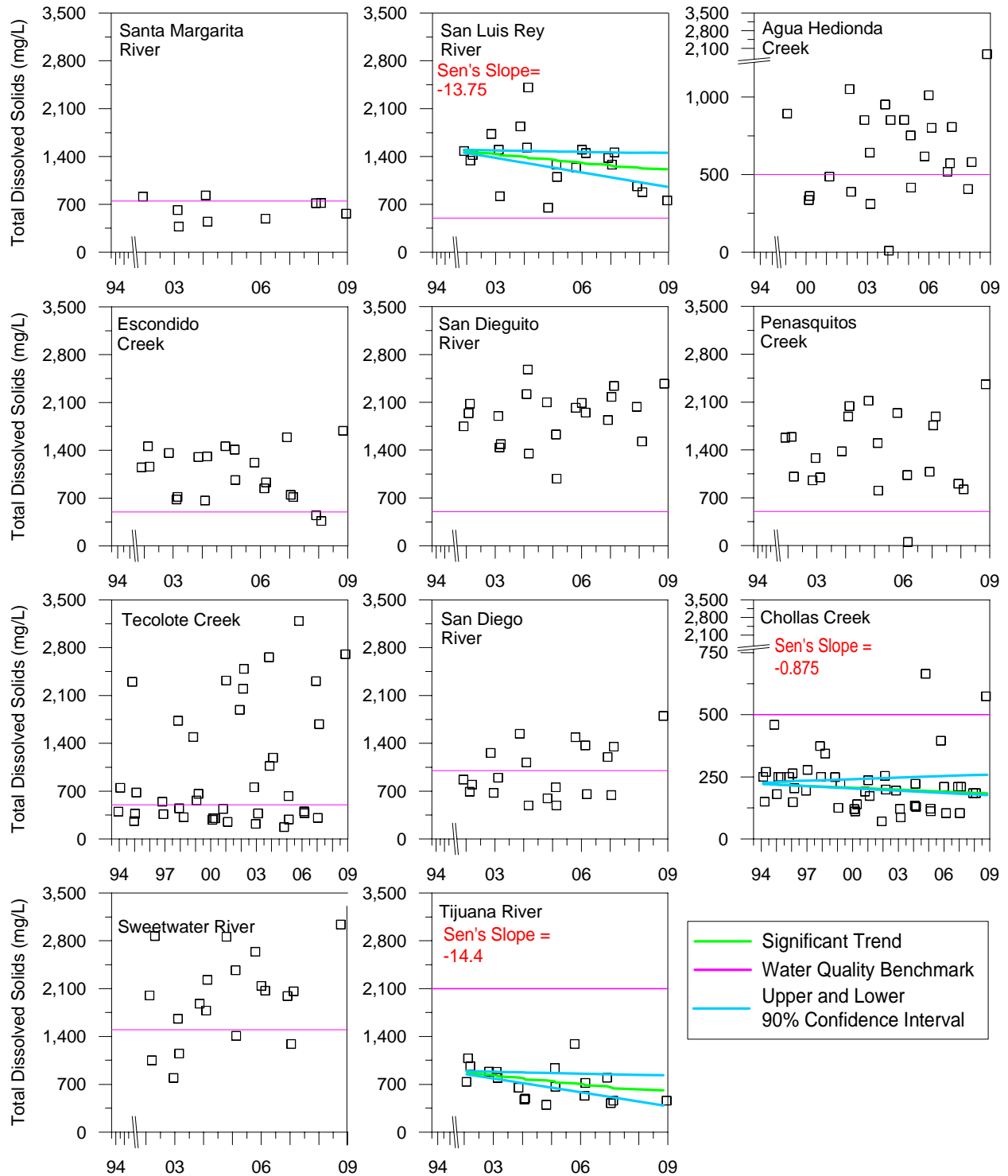
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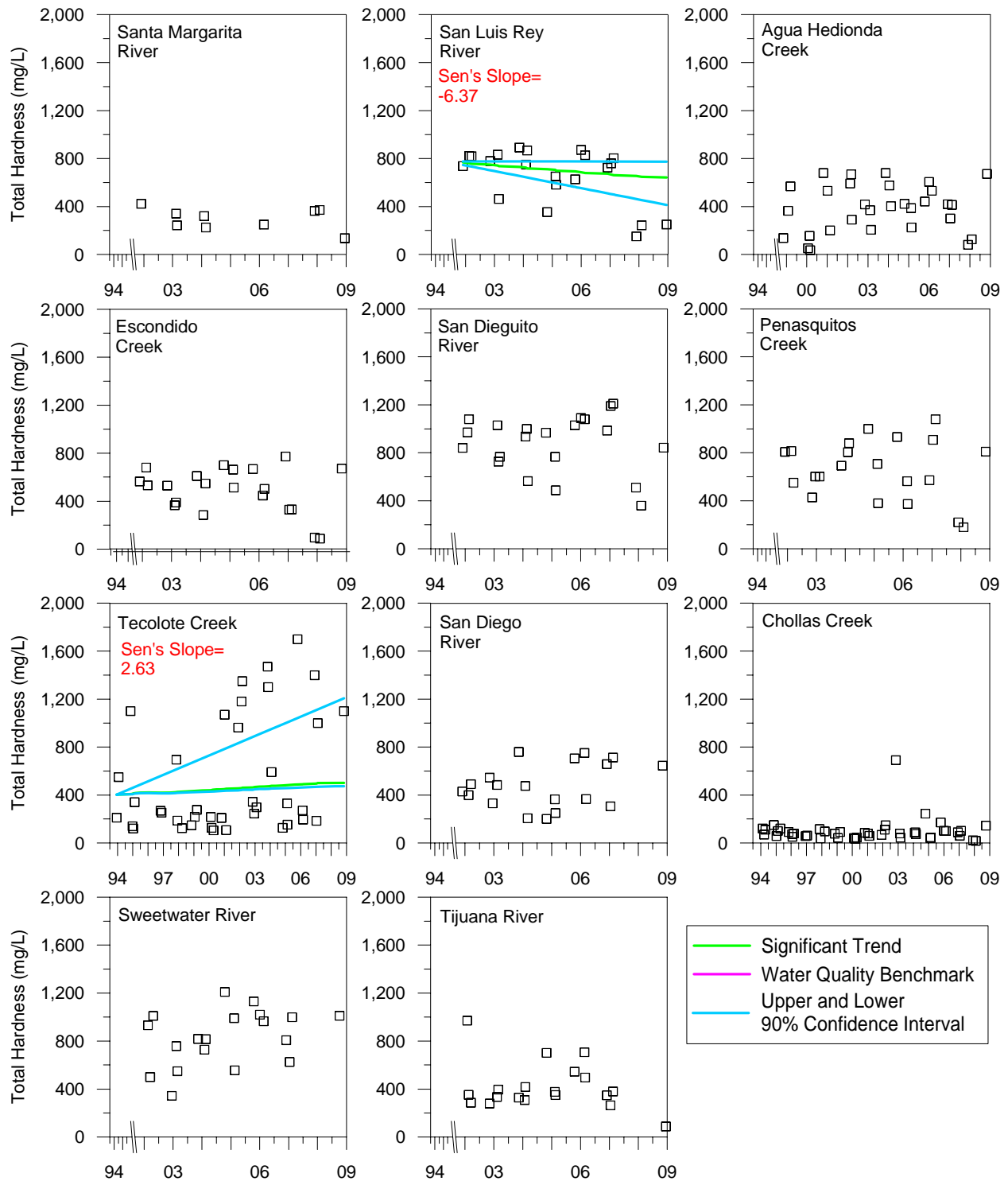
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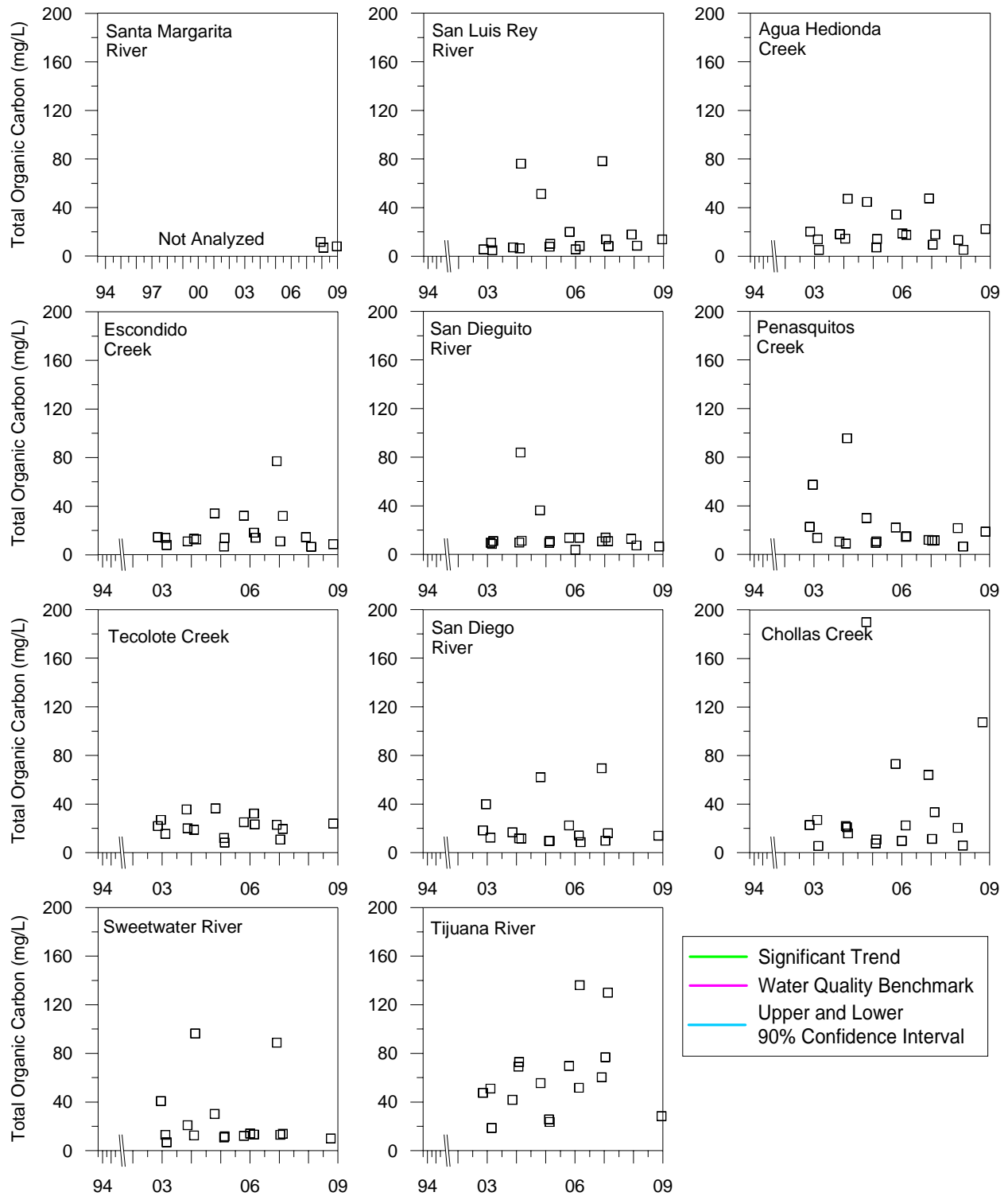
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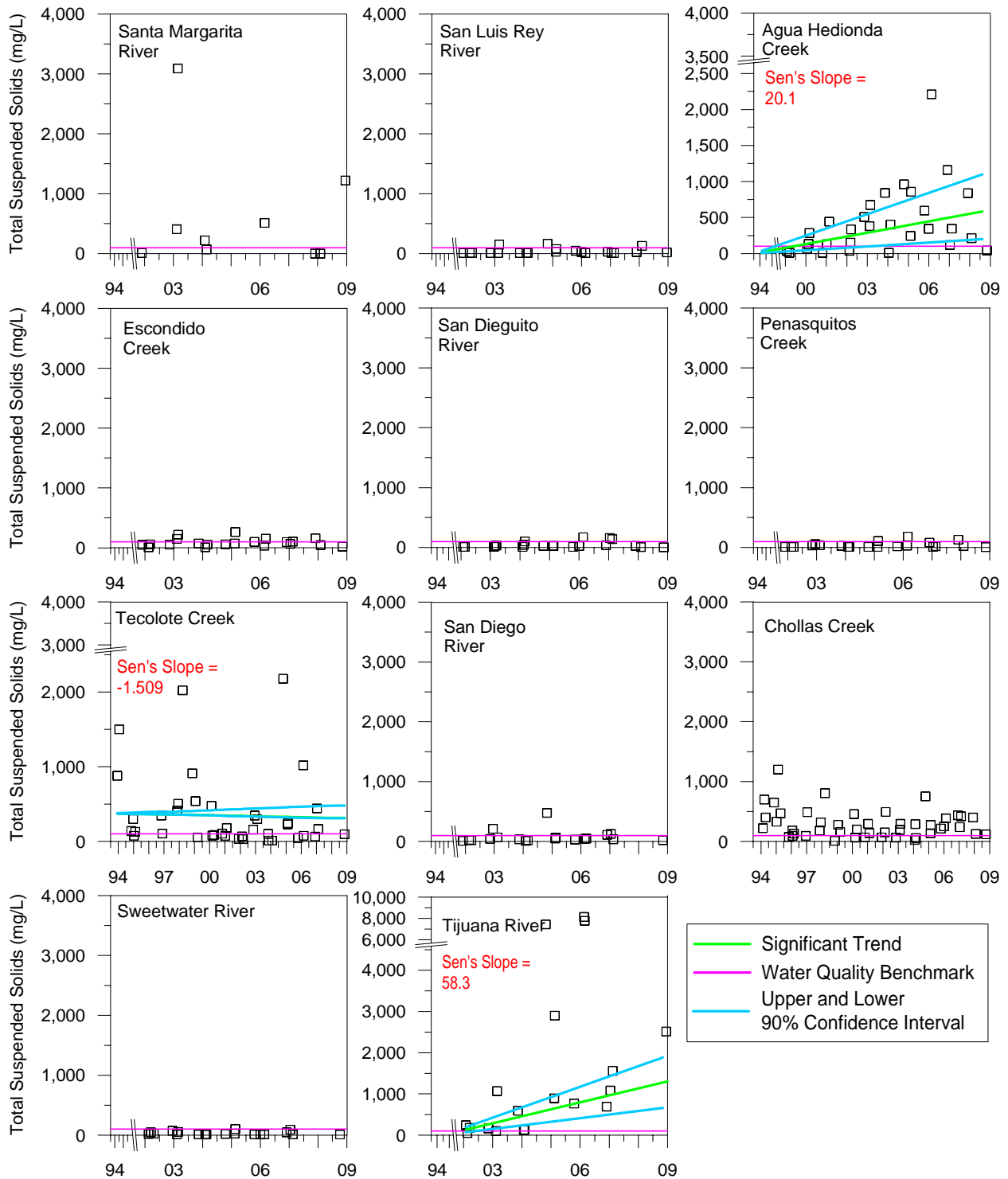
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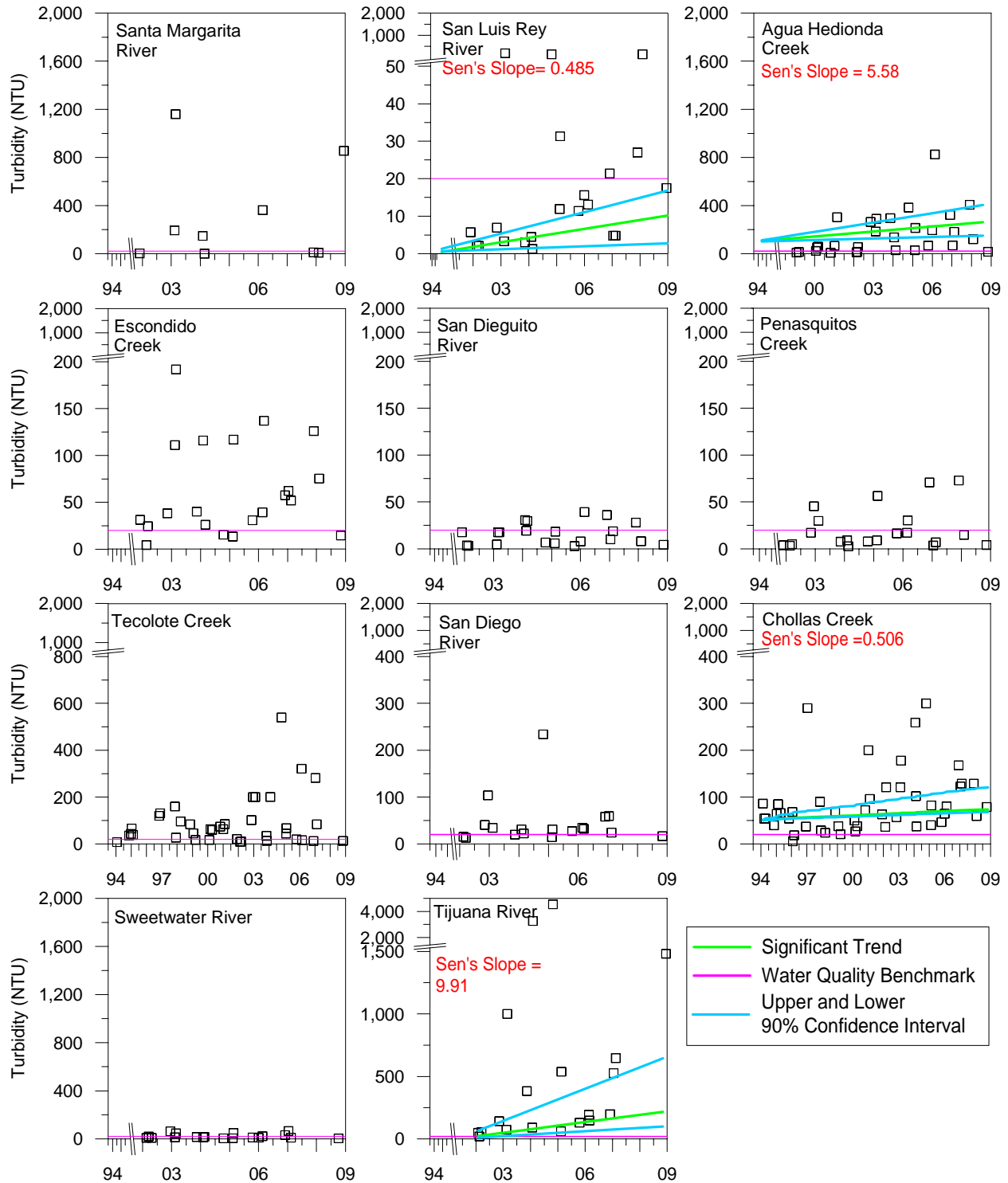
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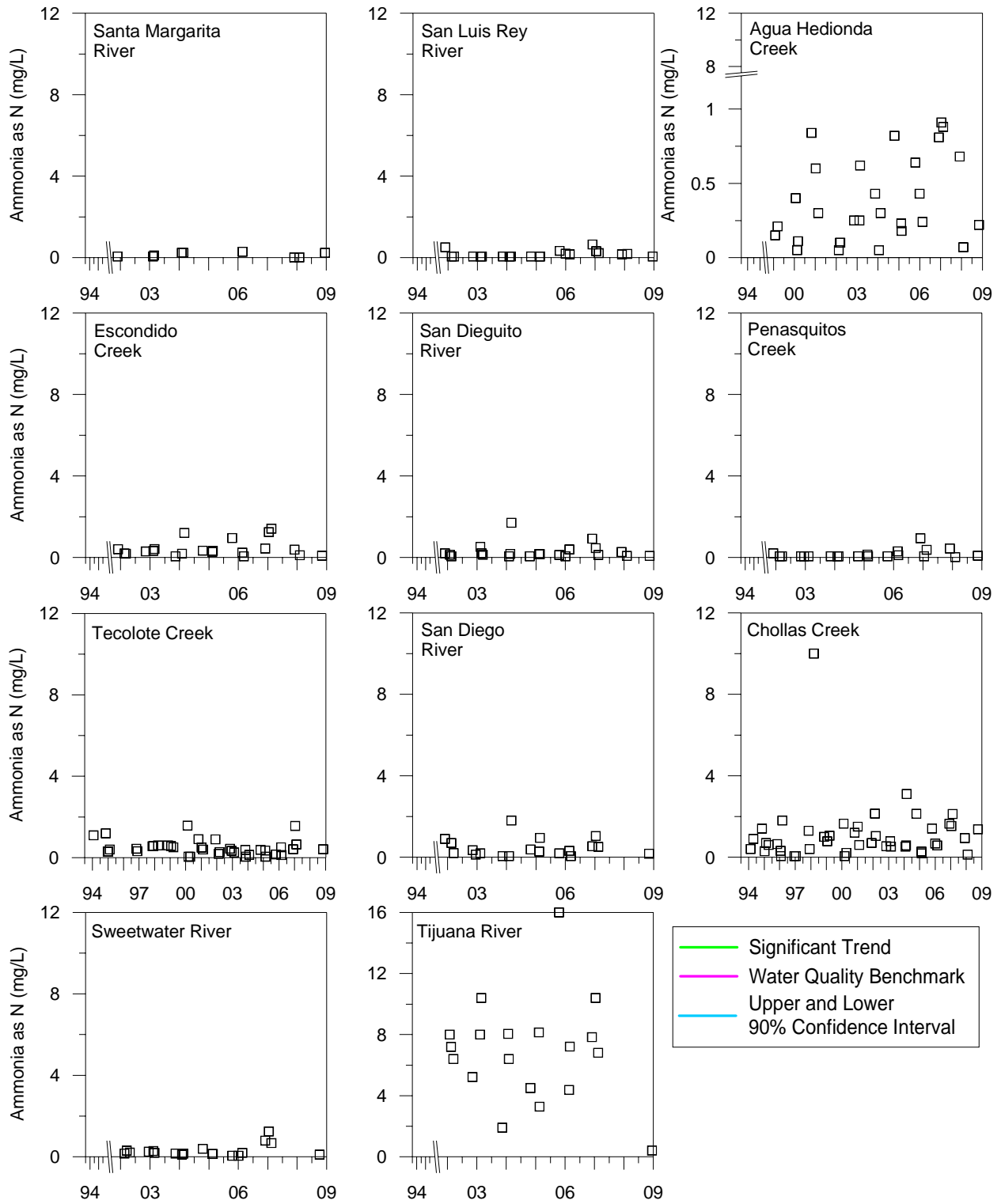
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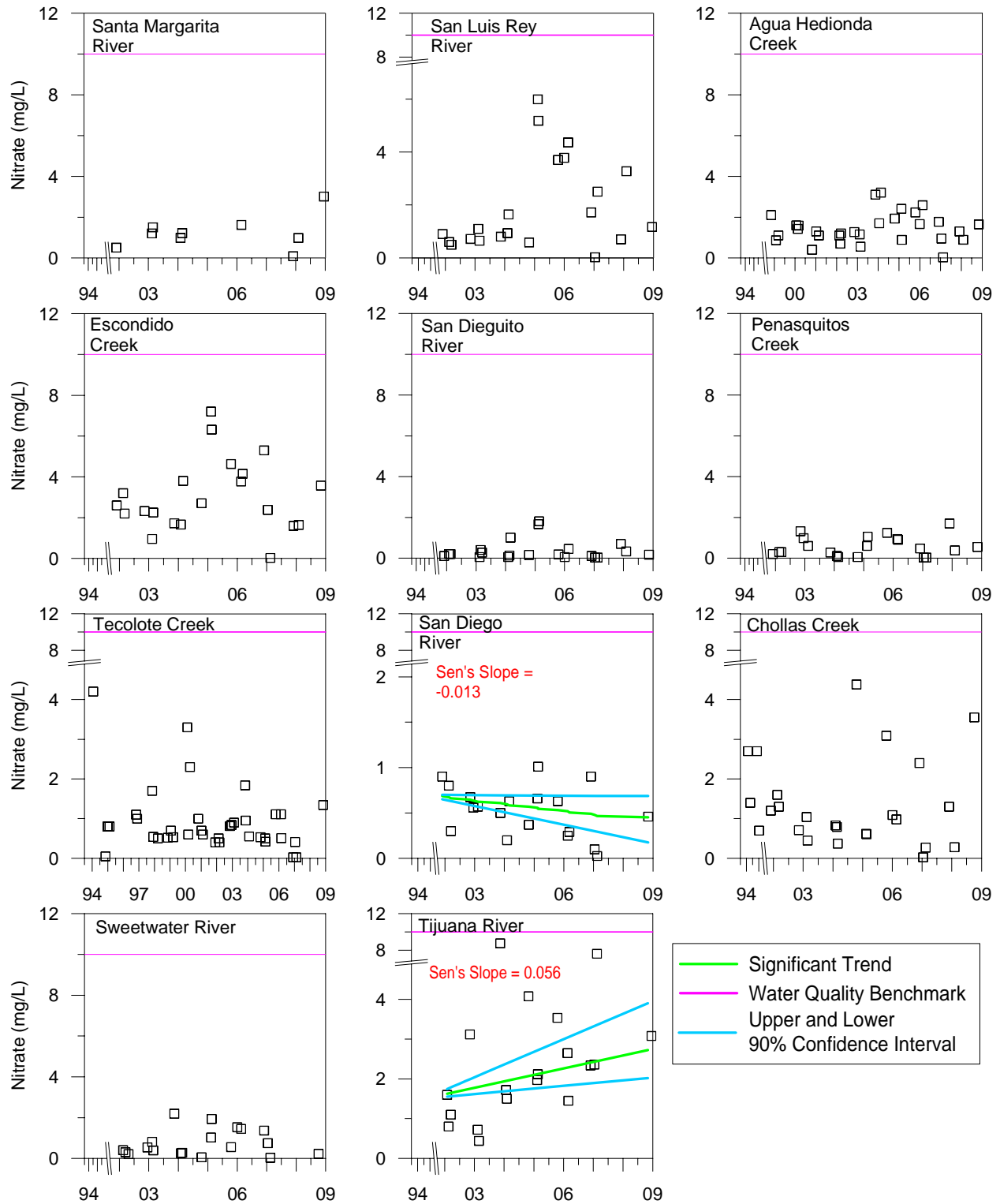
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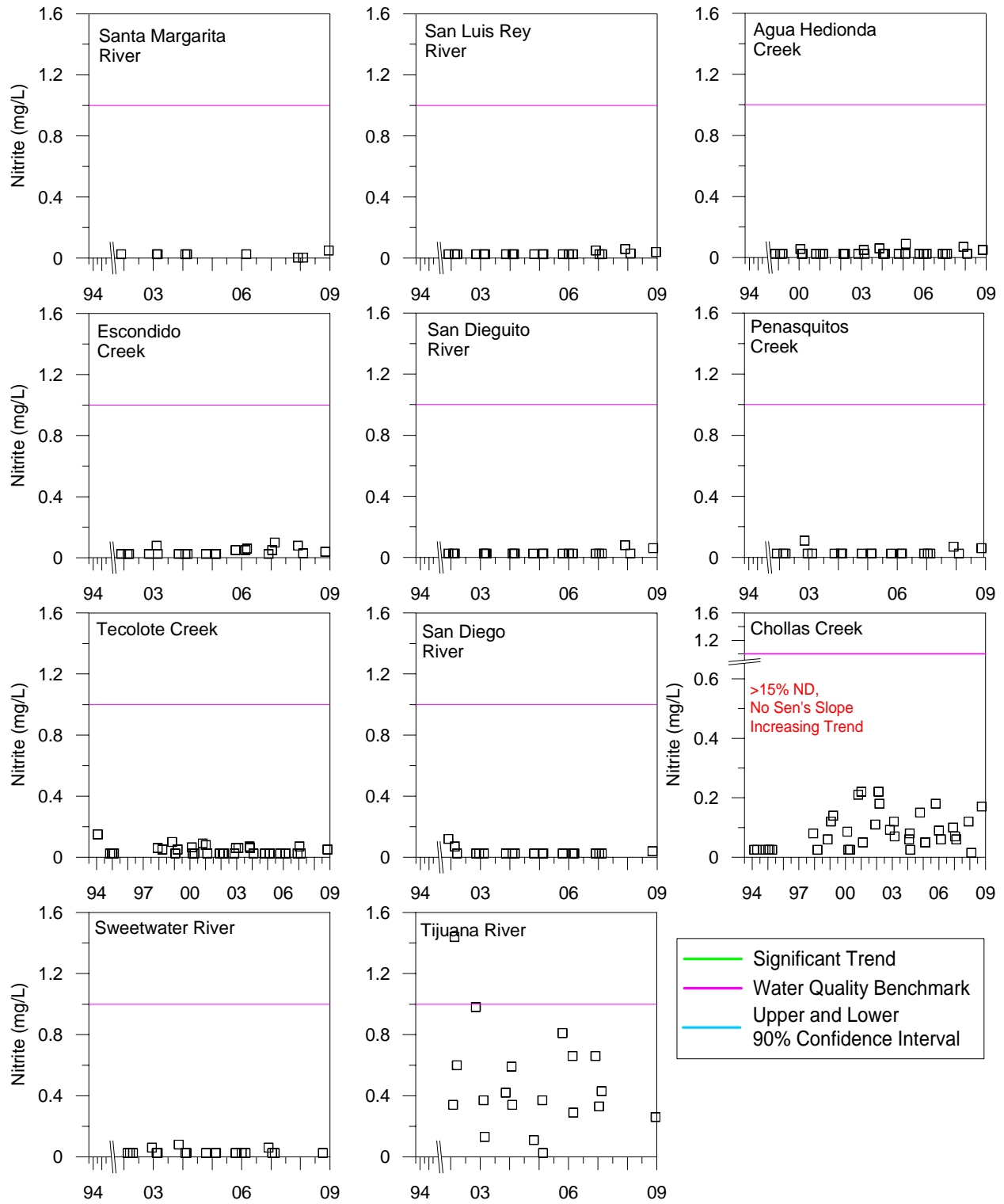
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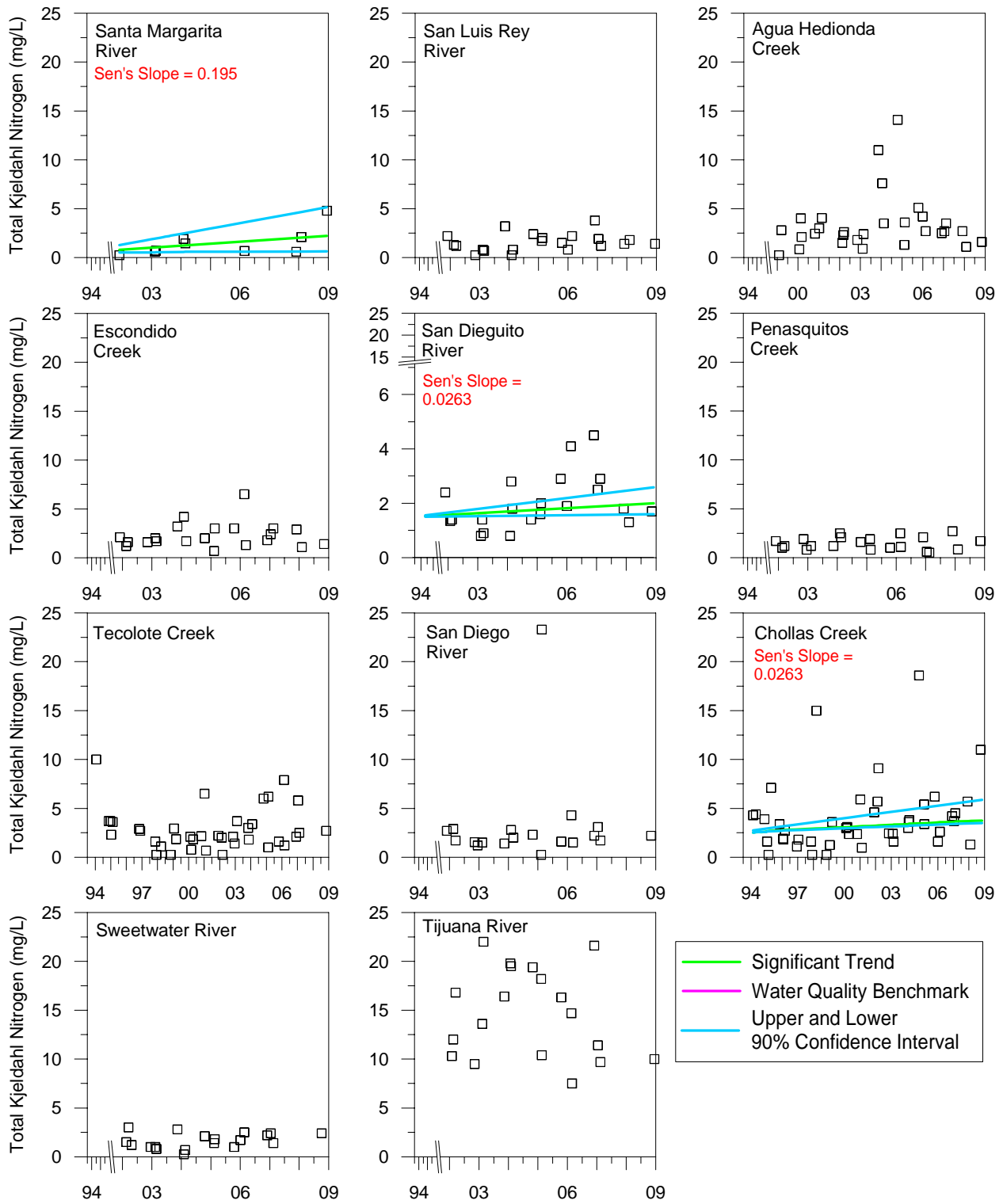
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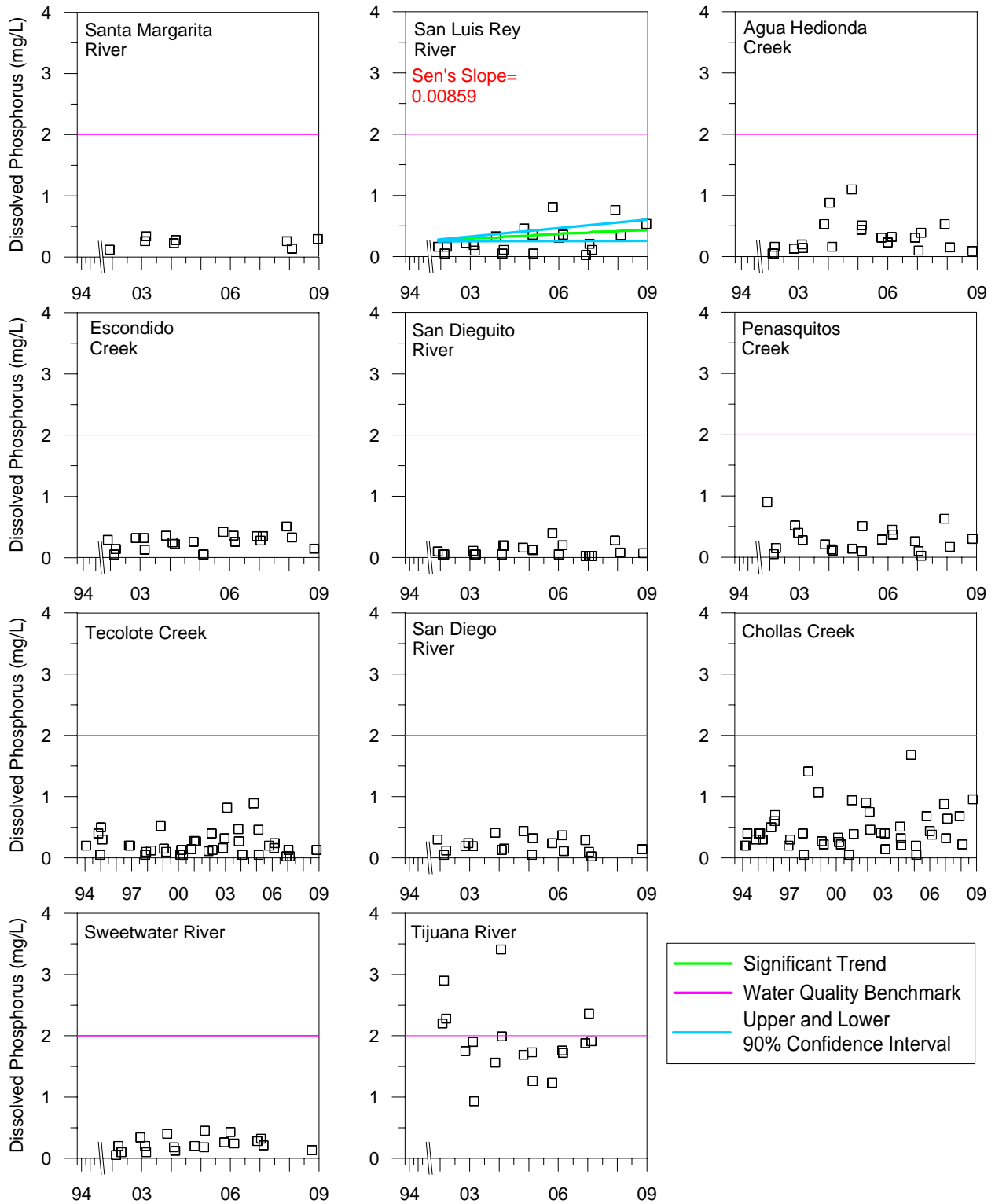
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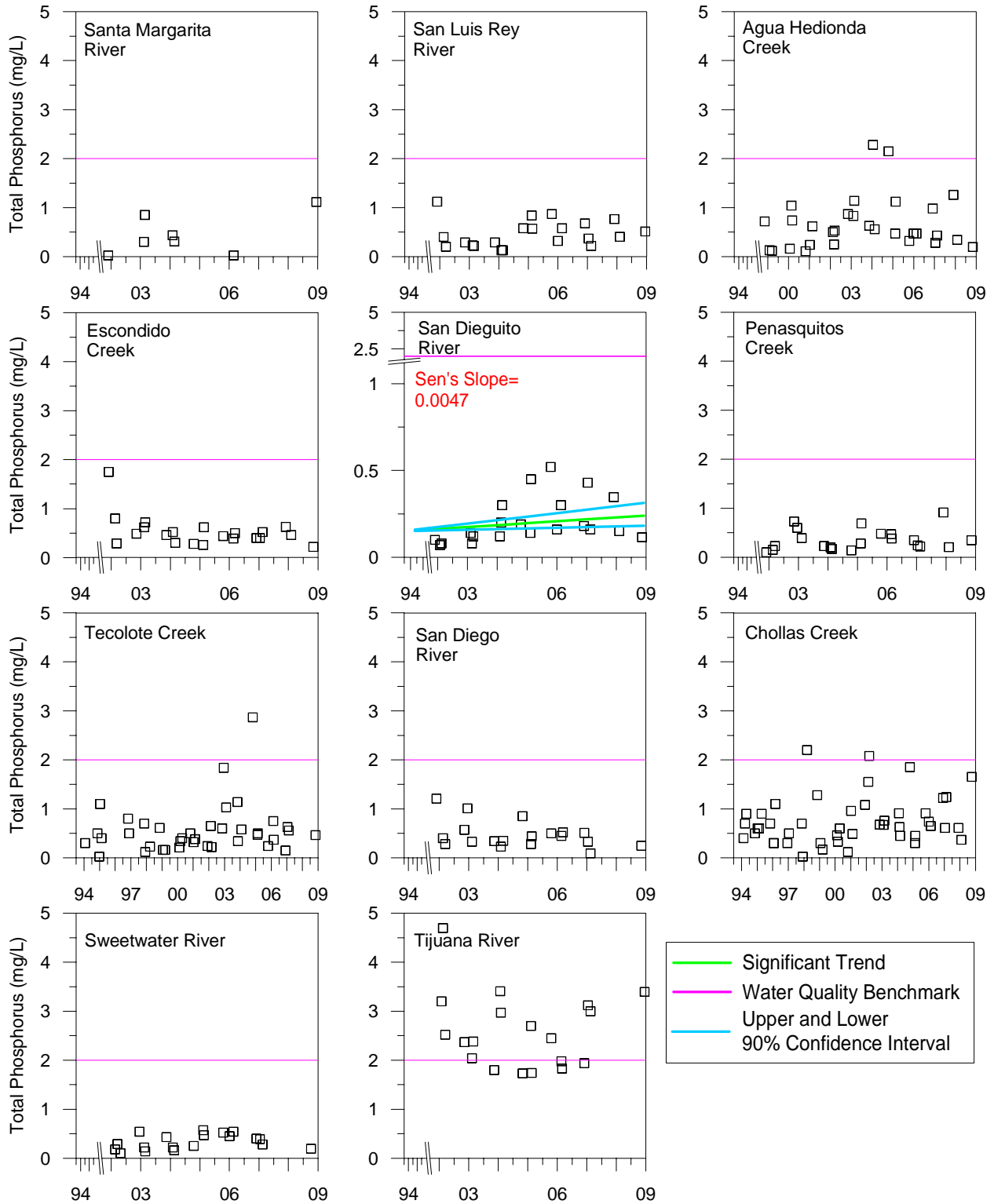
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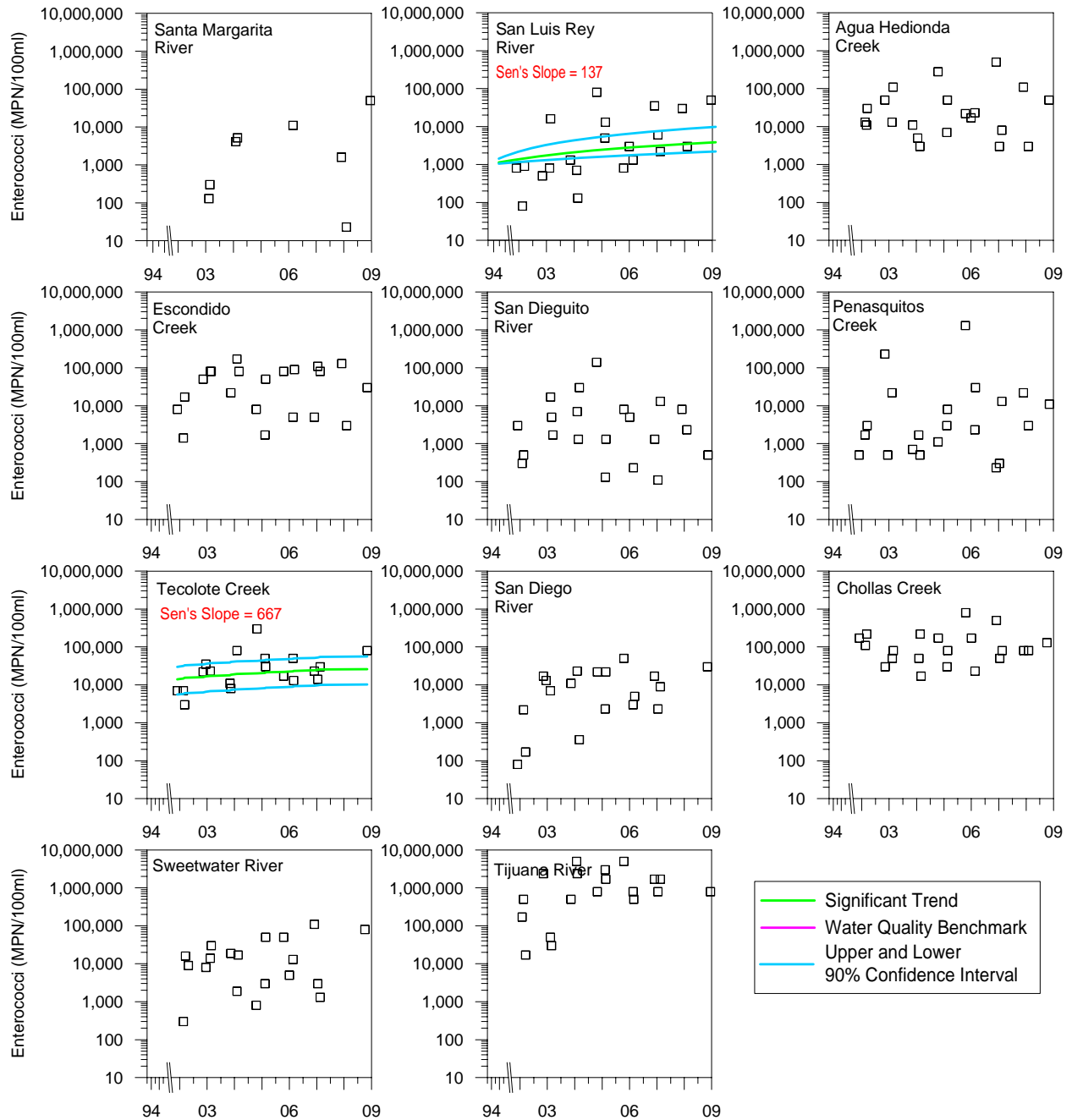
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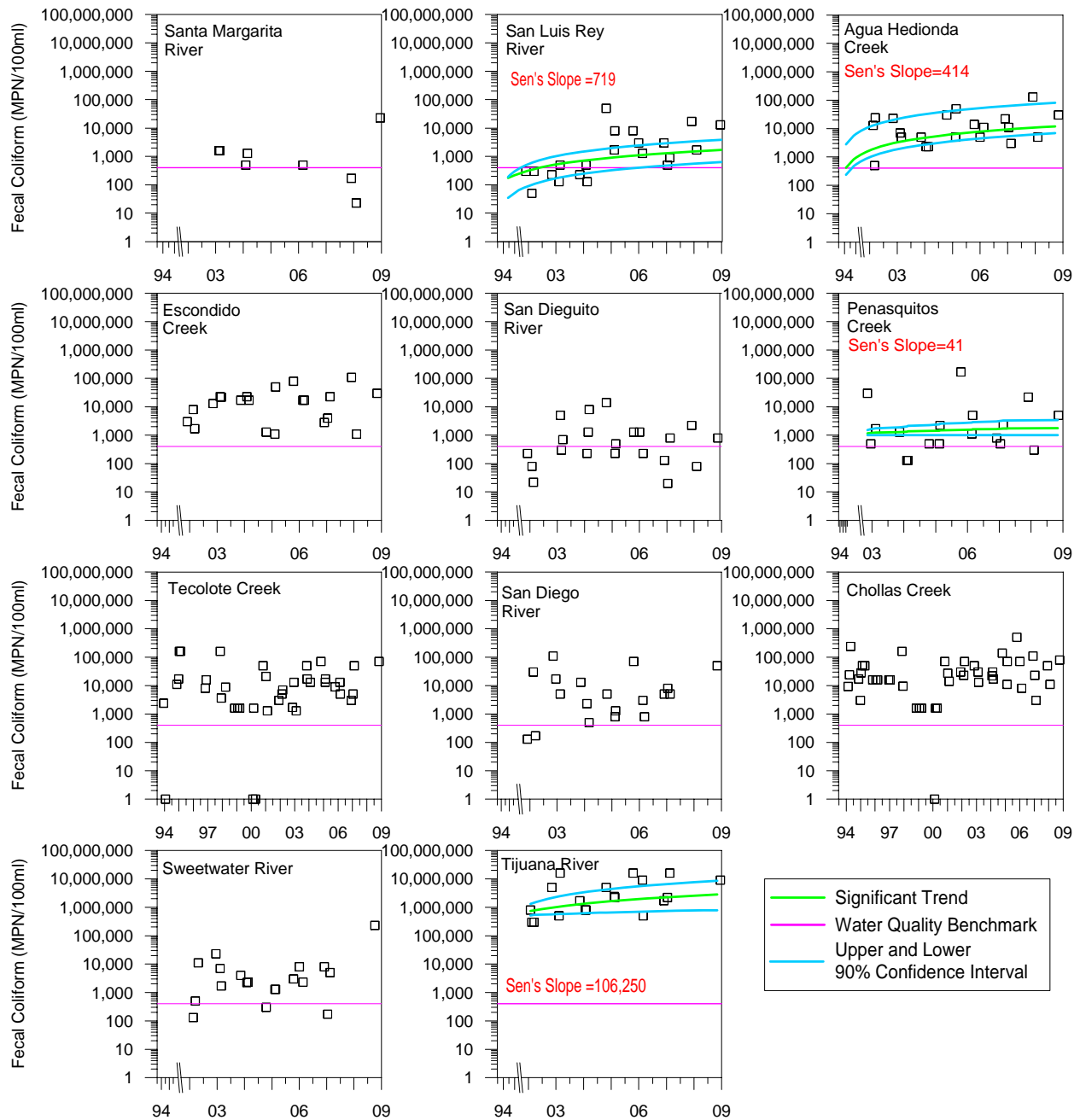
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BACTERIOLOGICAL MEASURES

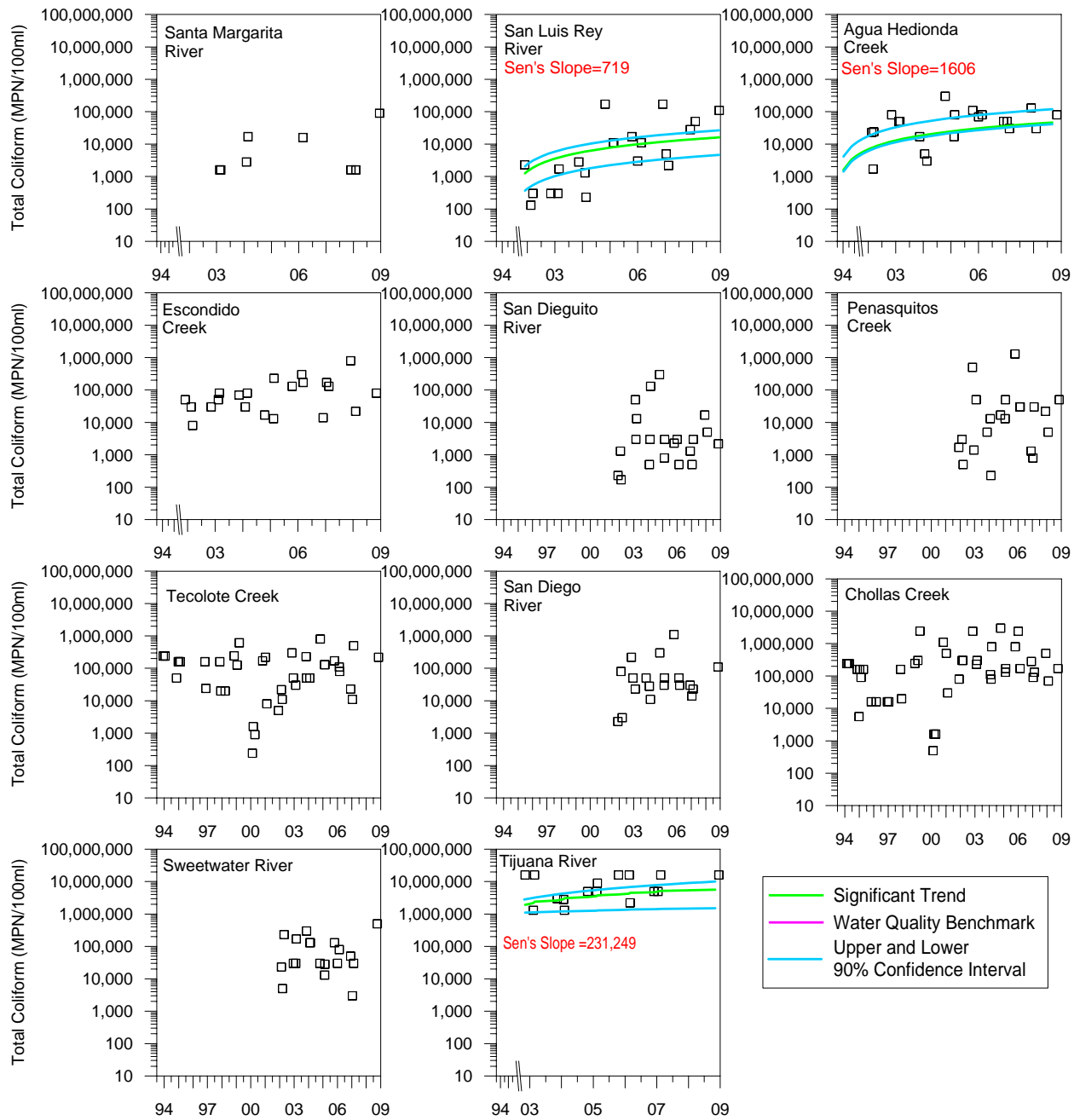
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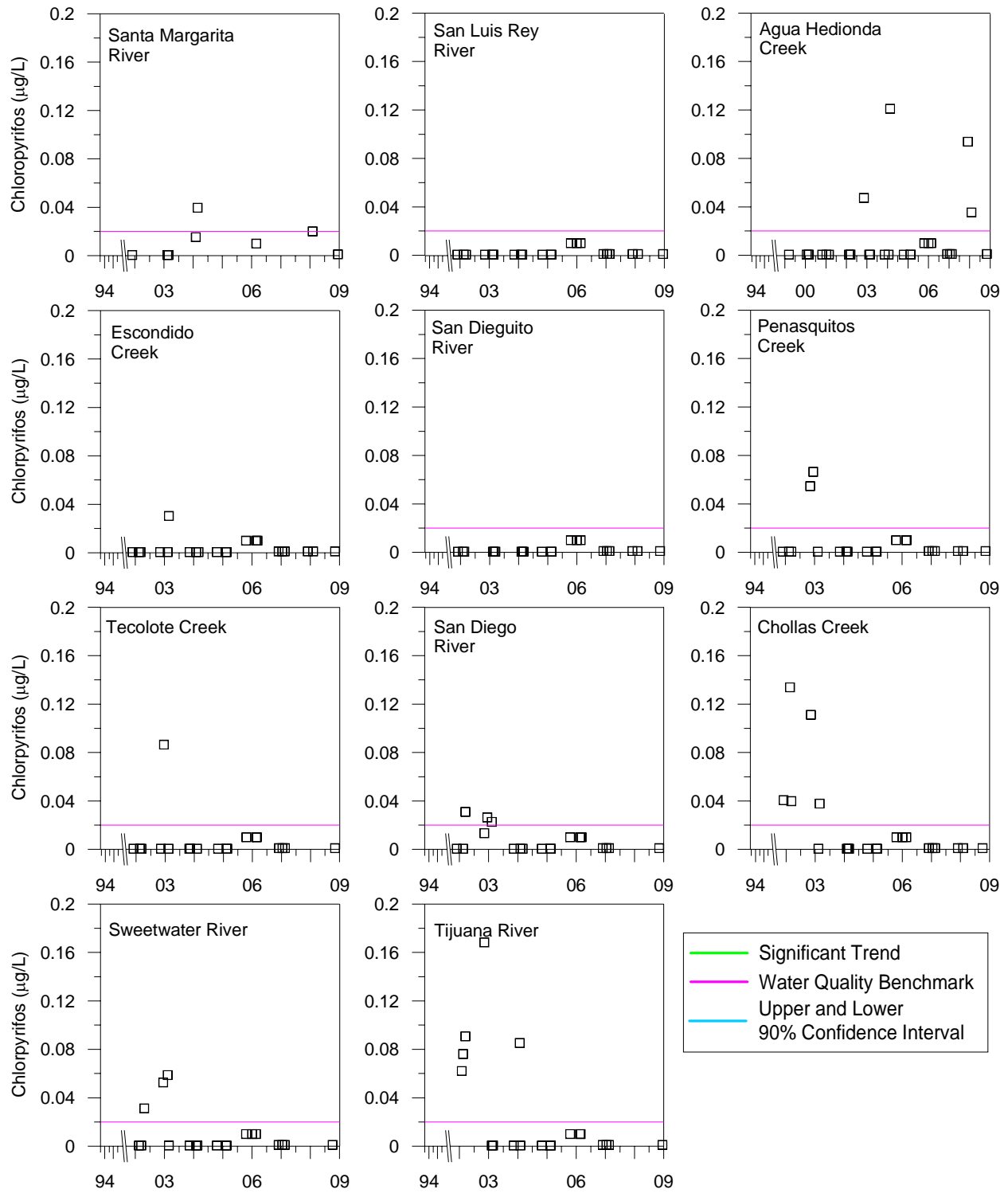
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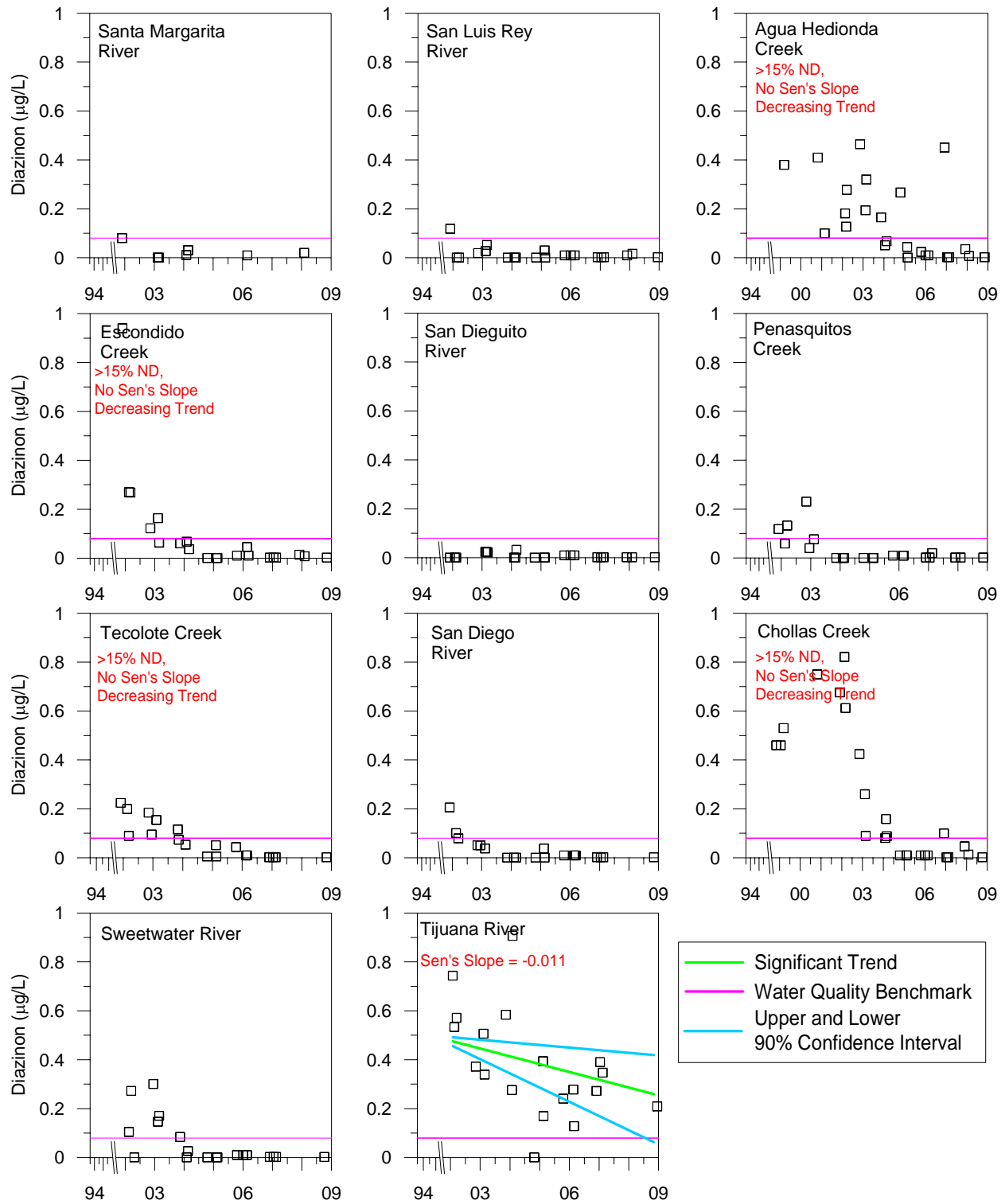
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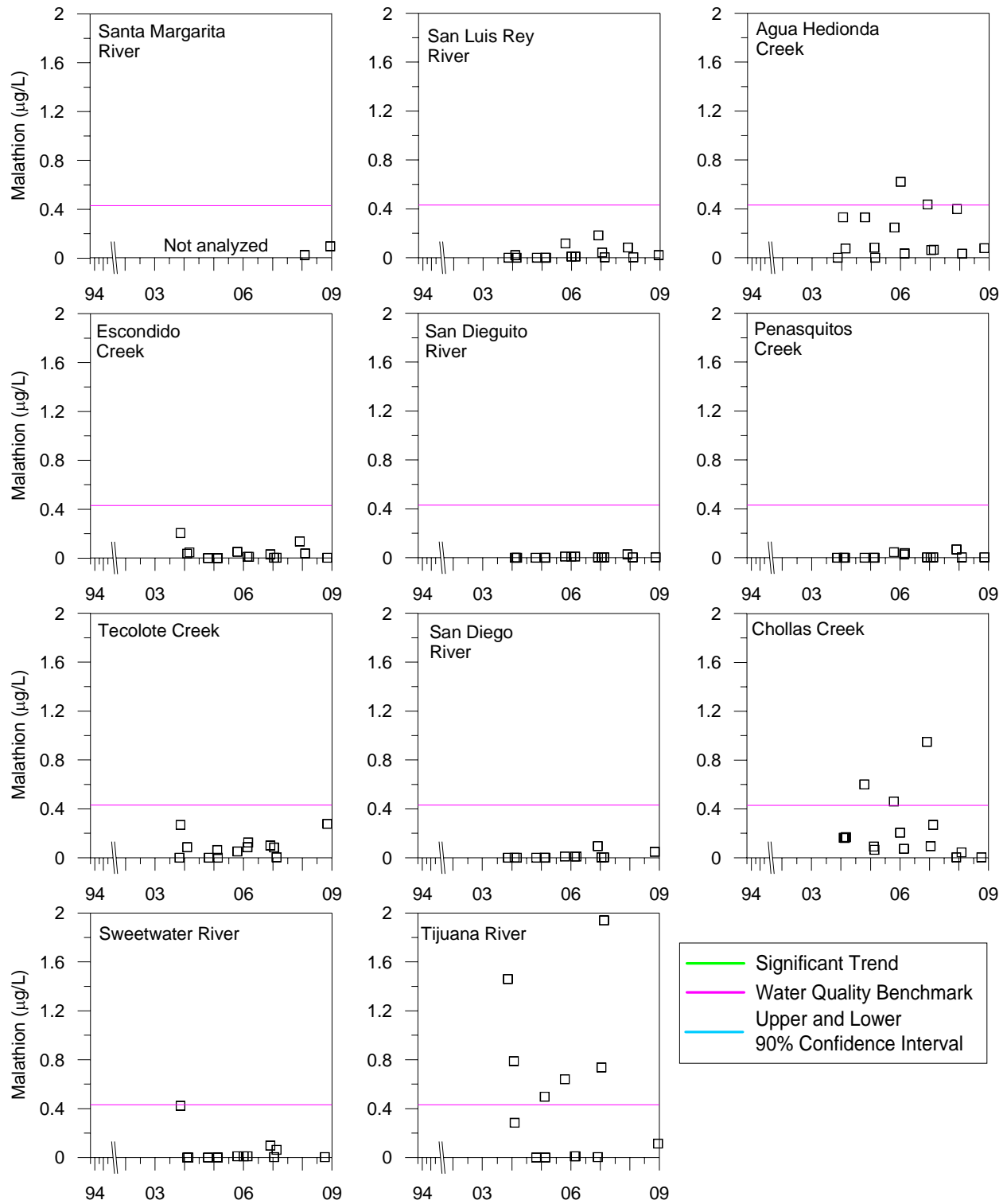
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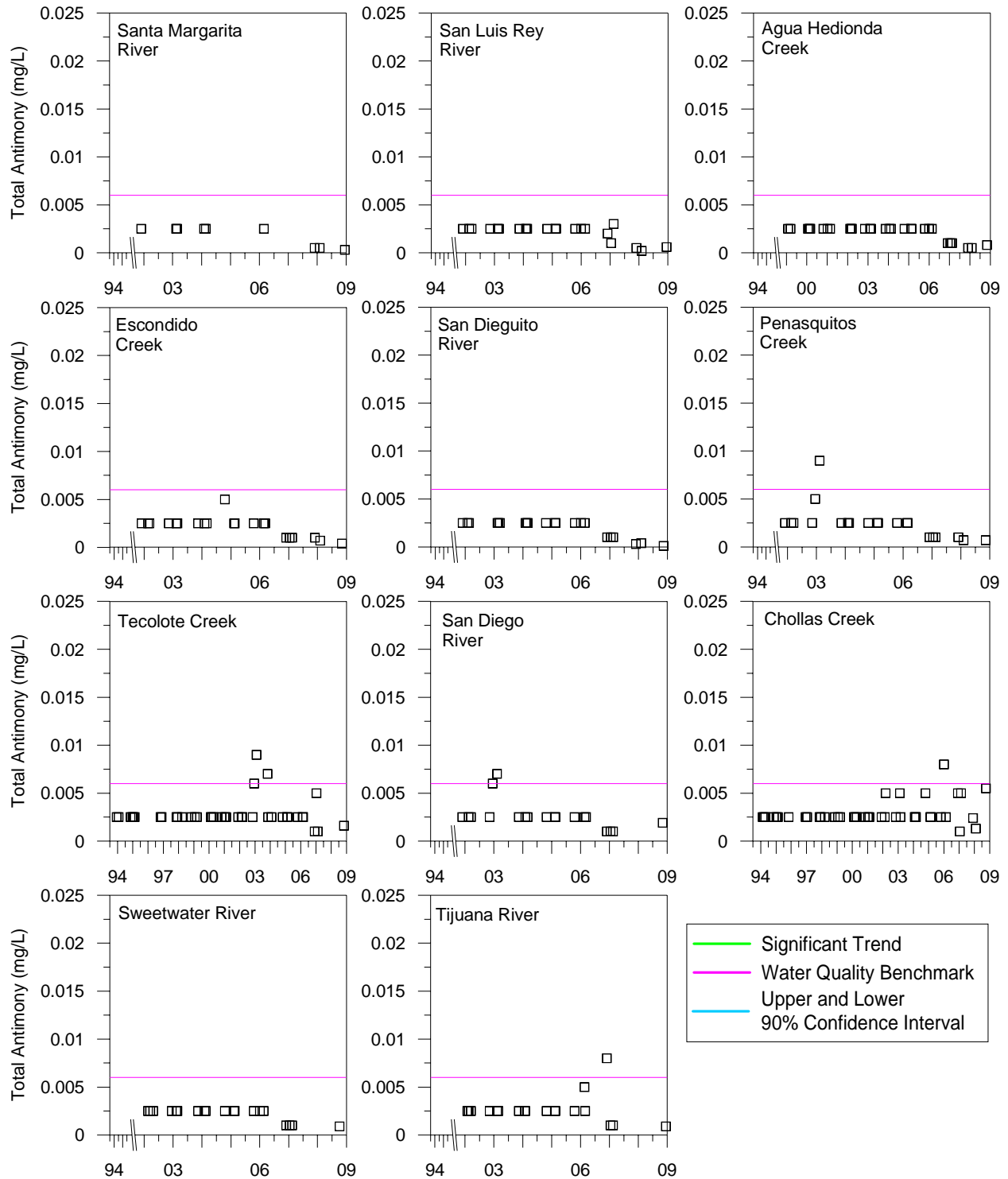
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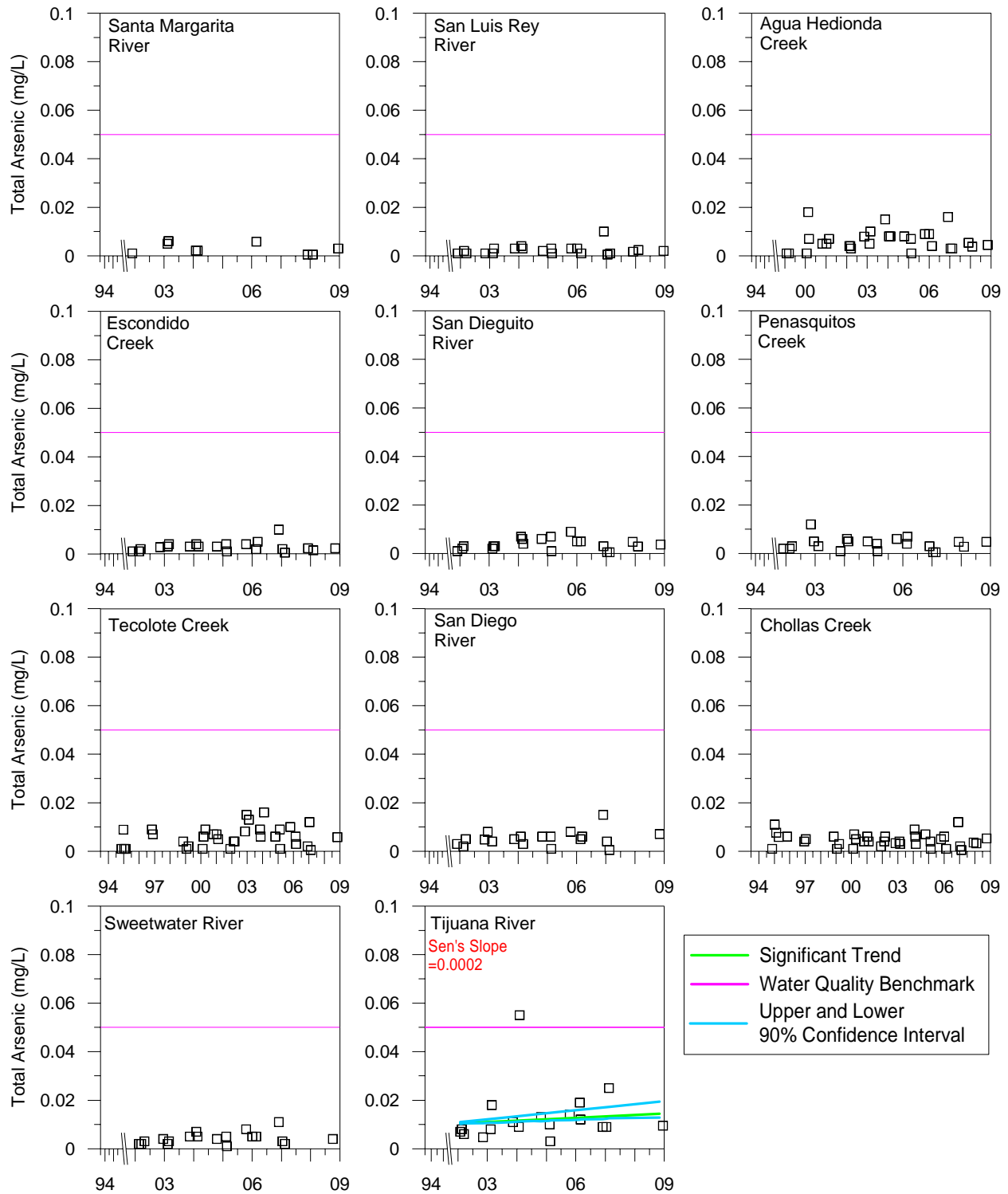
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TOTAL METALS

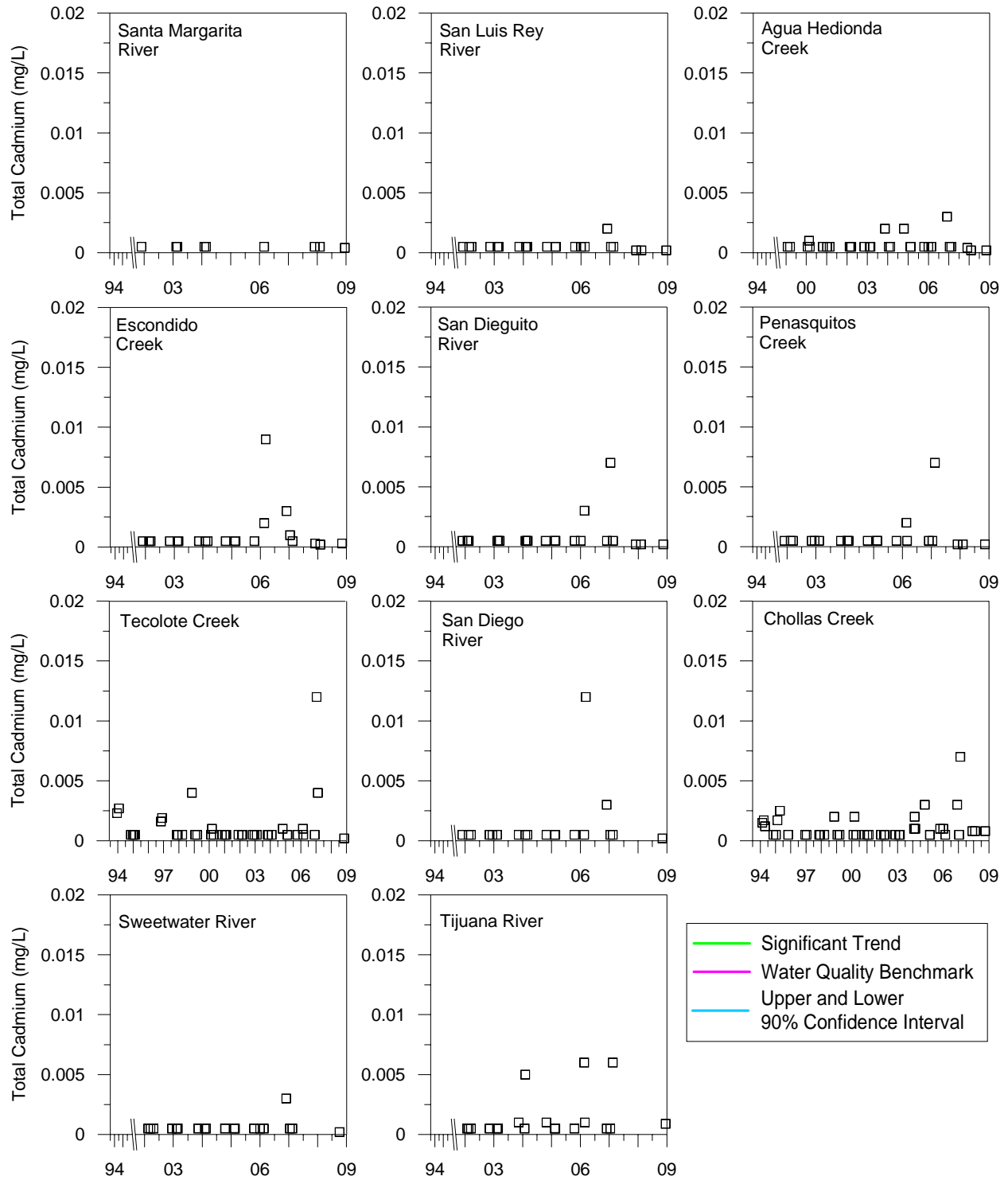
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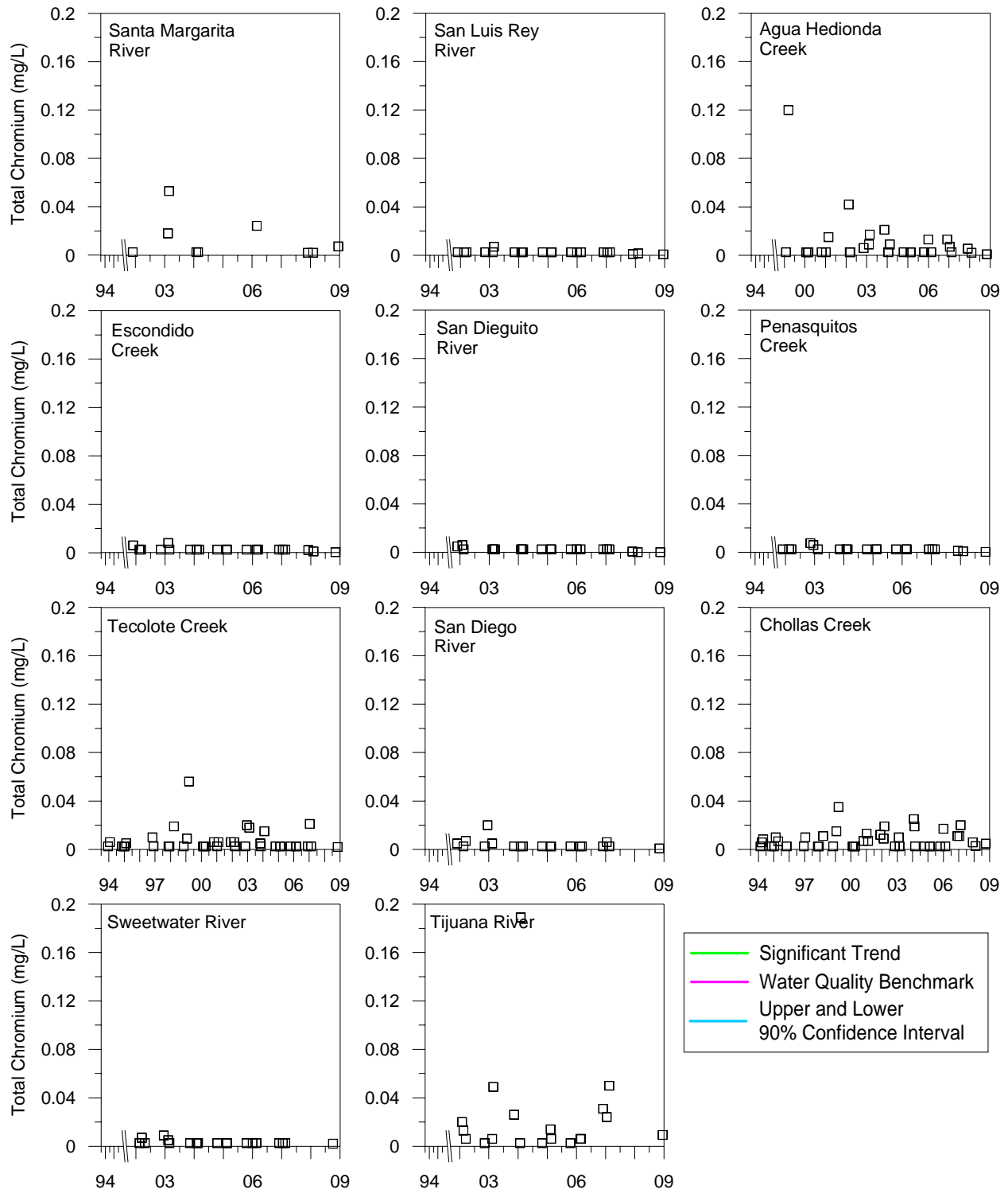
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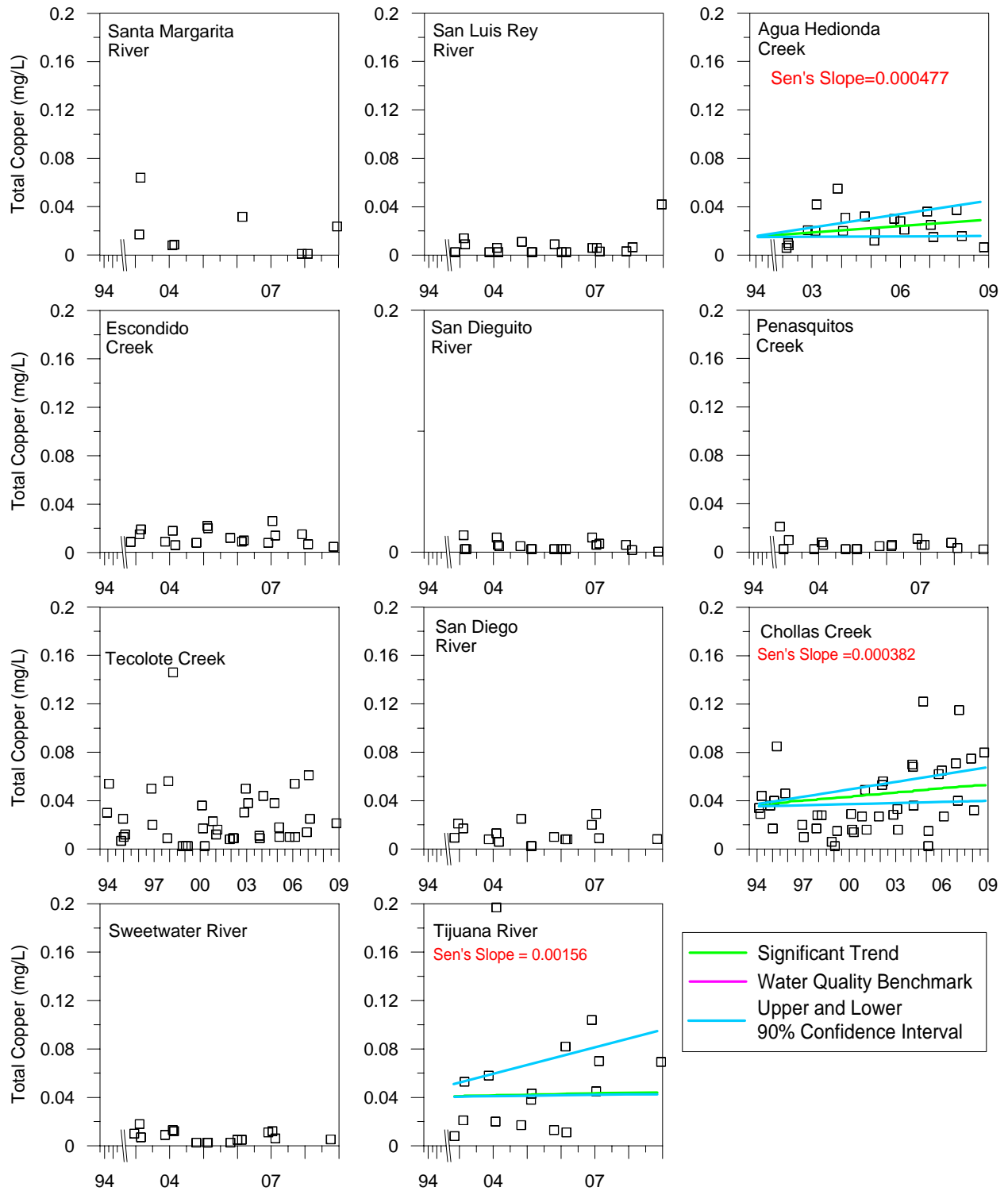
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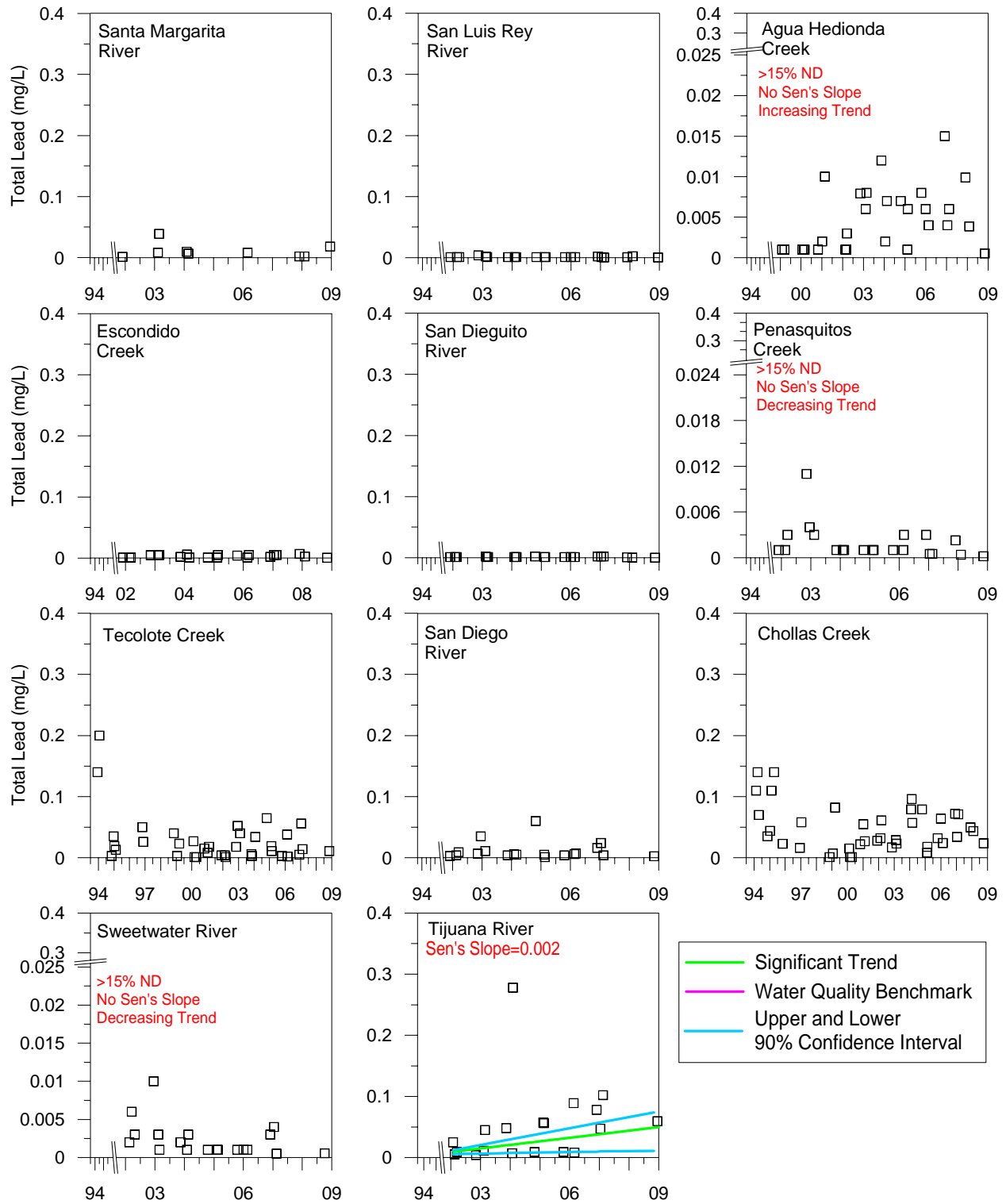
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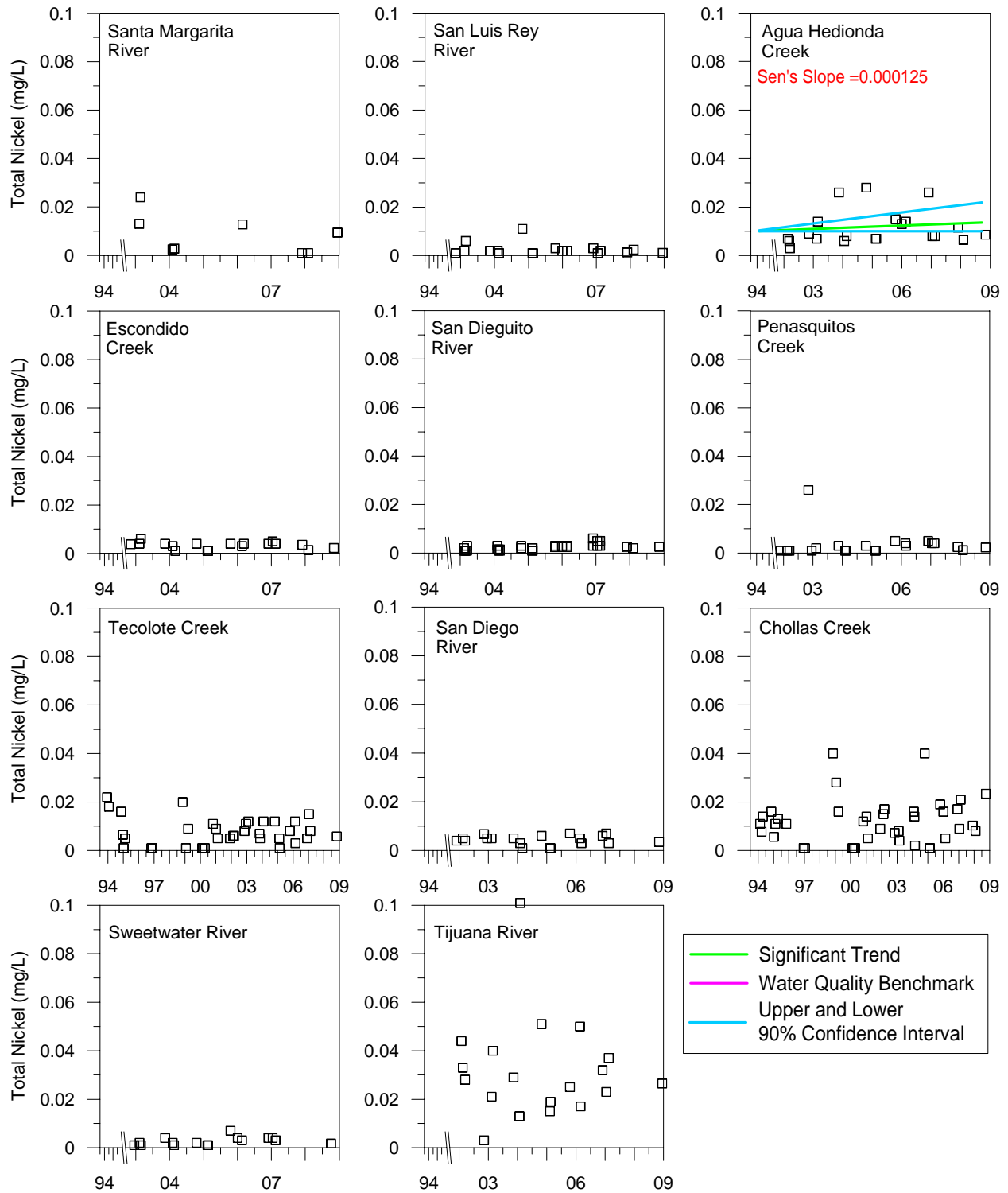
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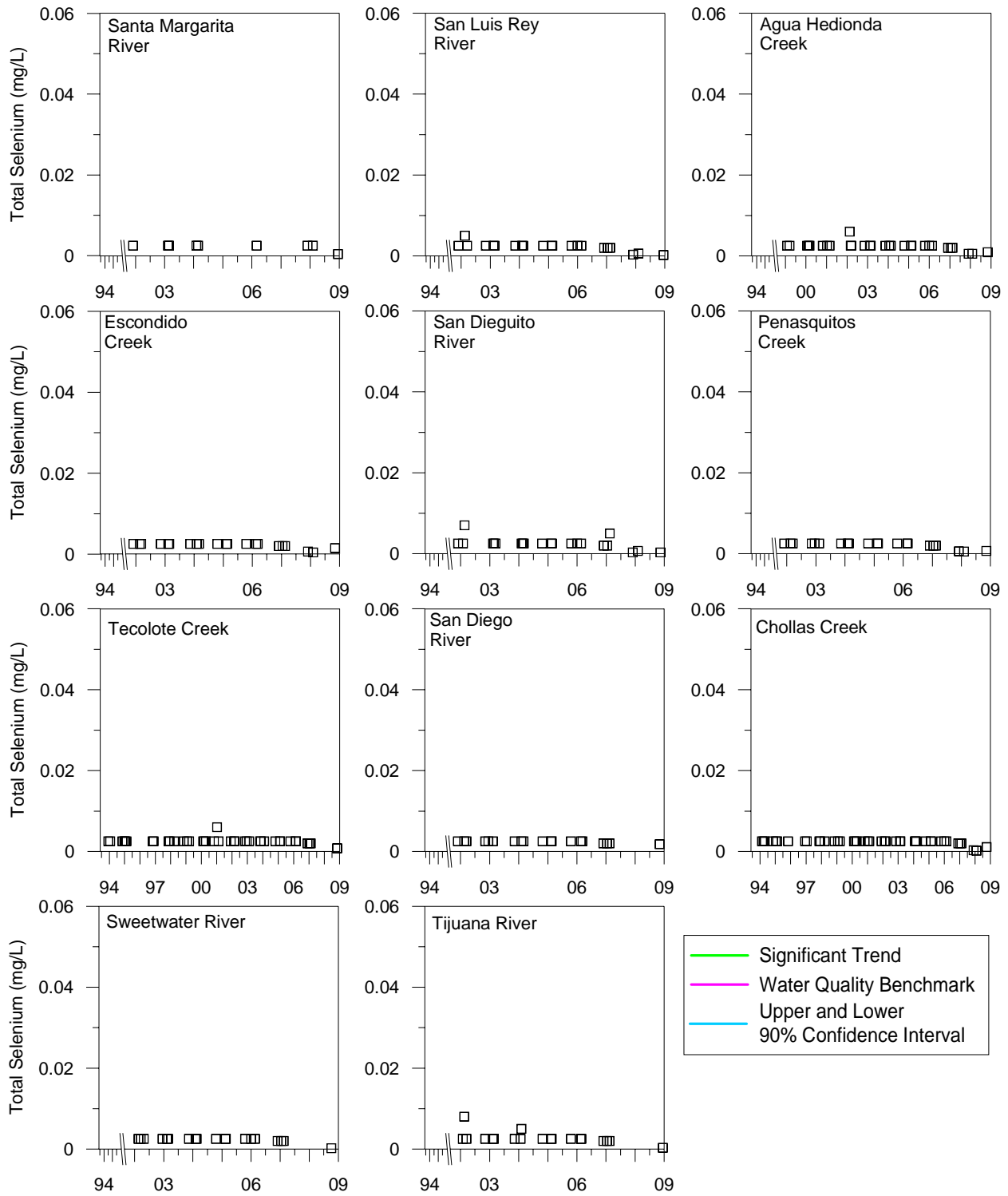
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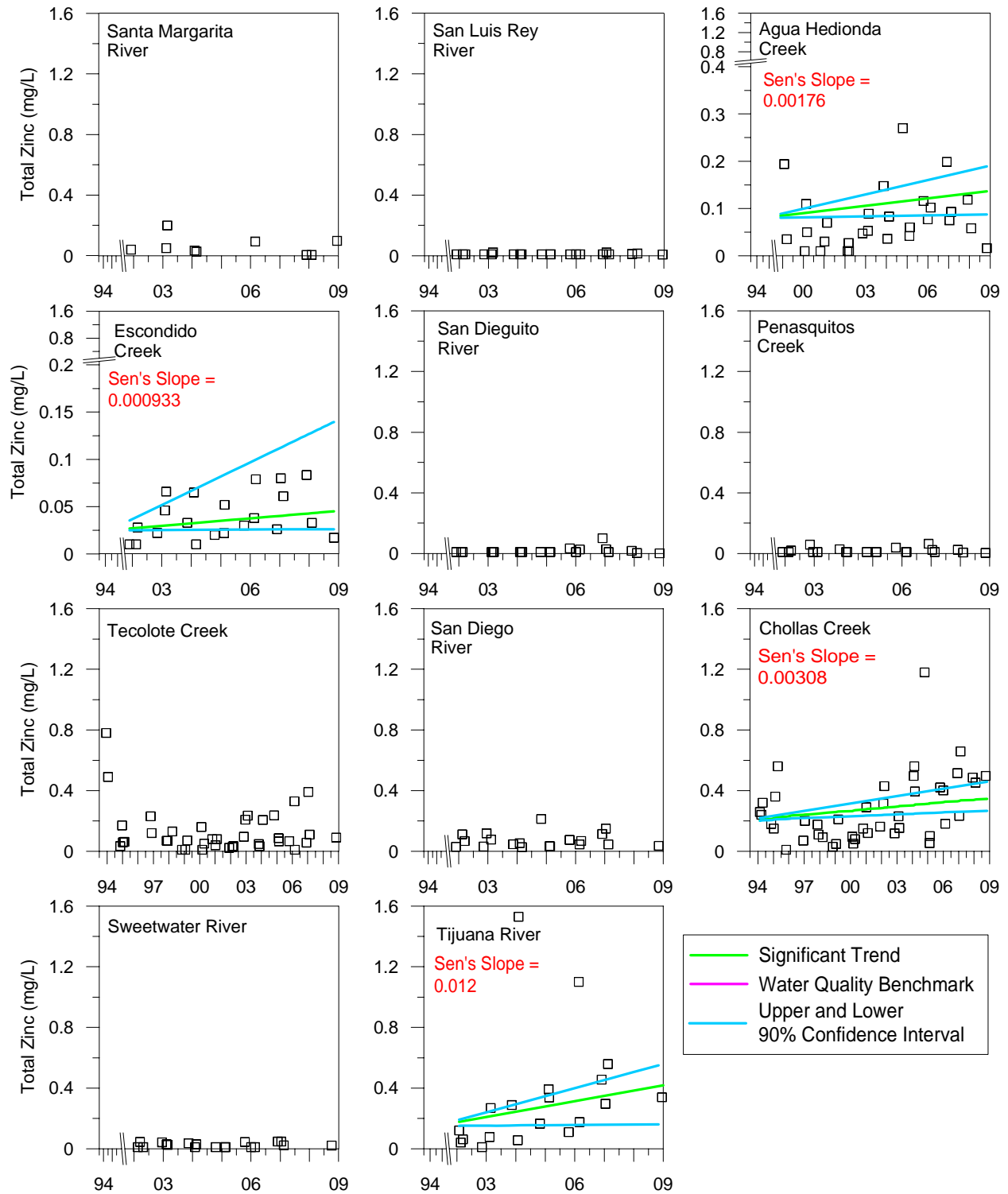
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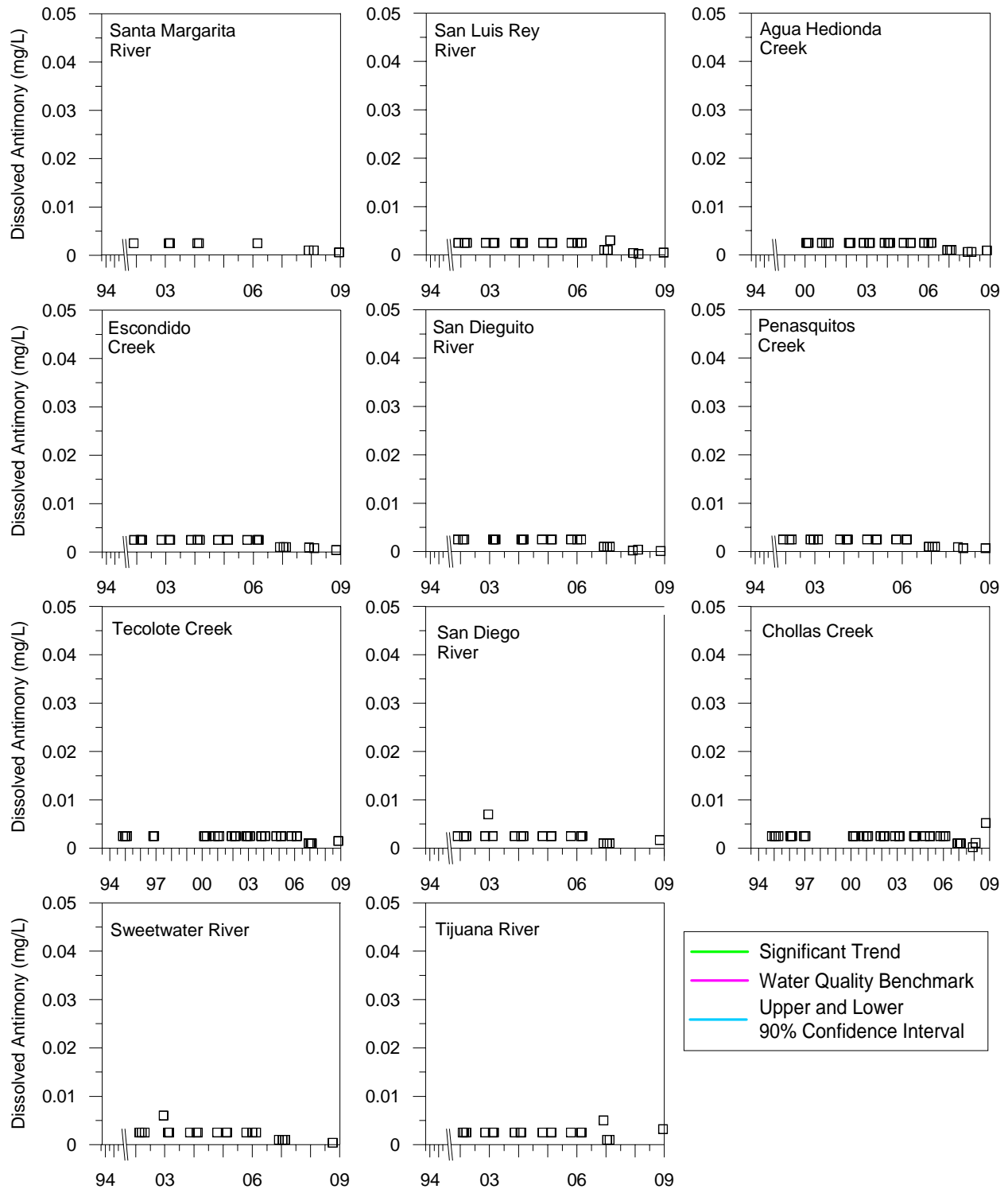
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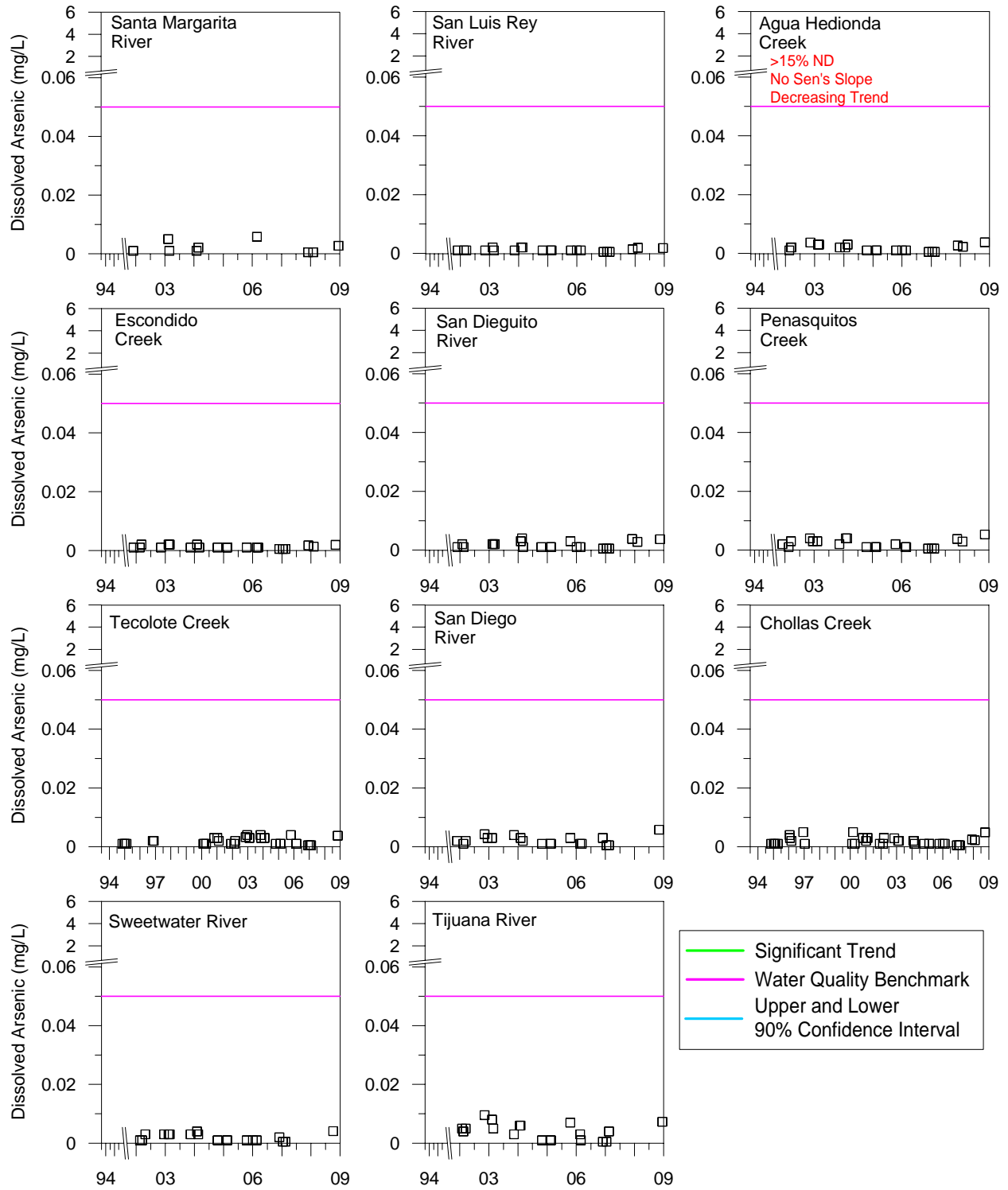
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DISSOLVED METALS

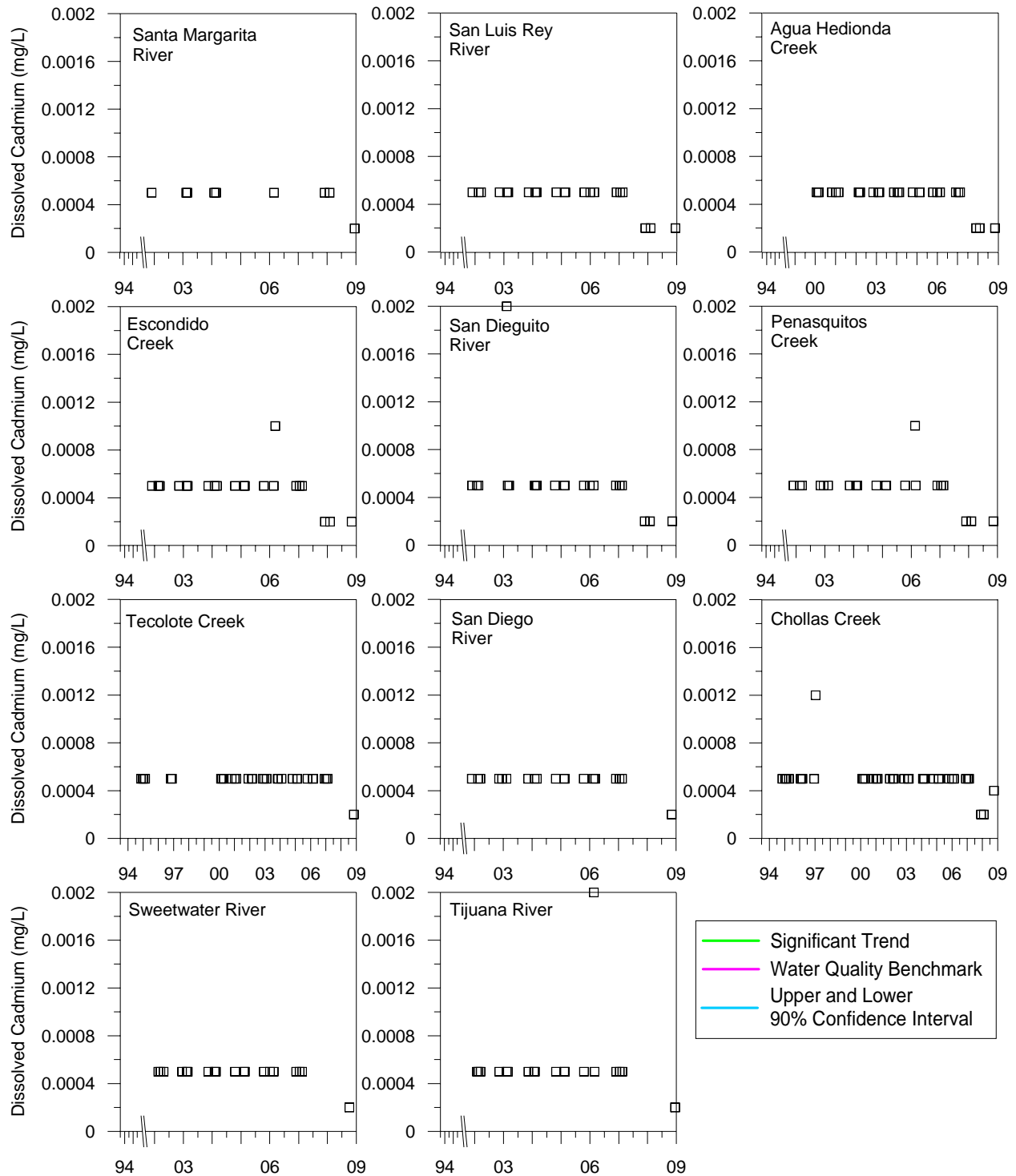
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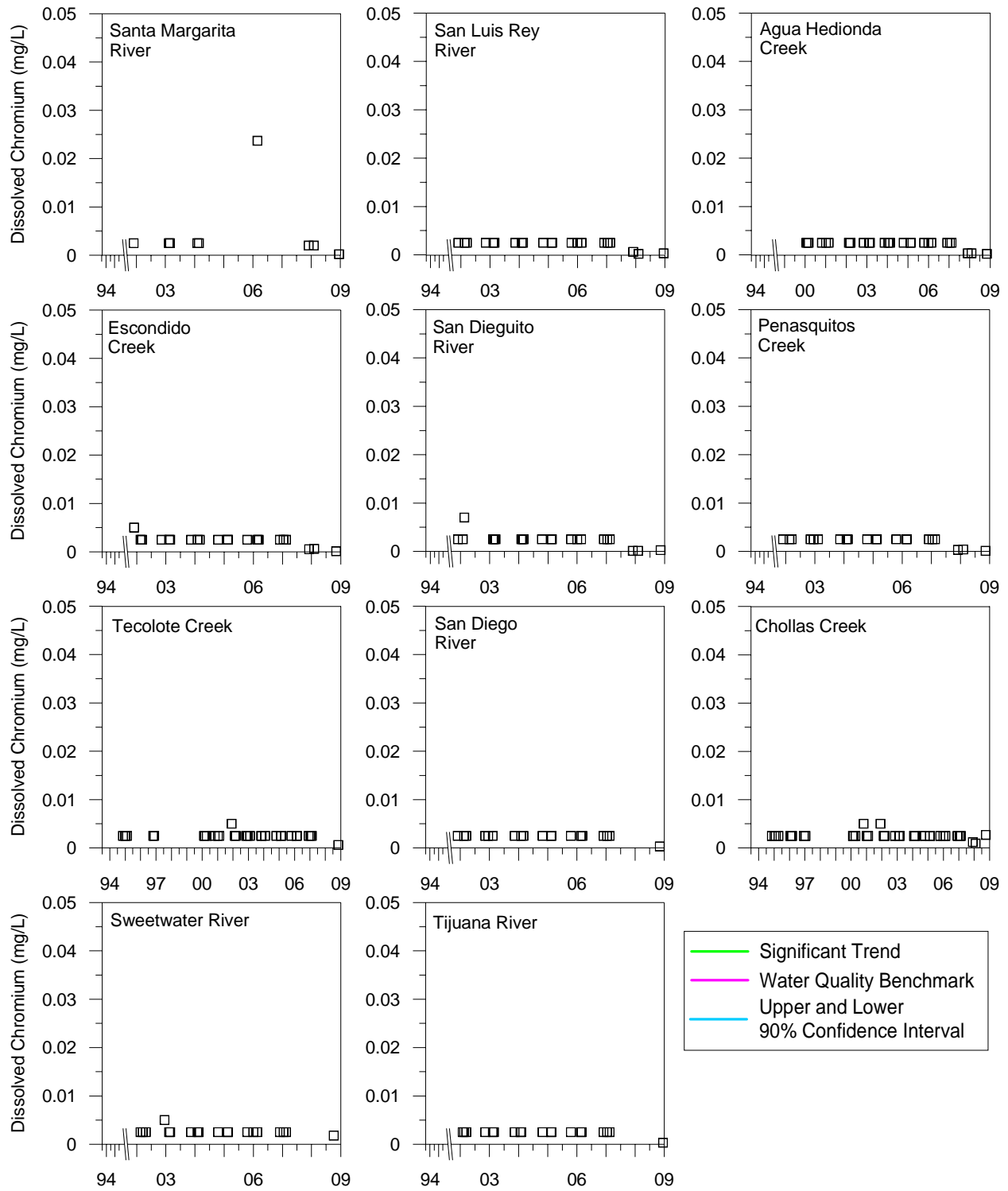
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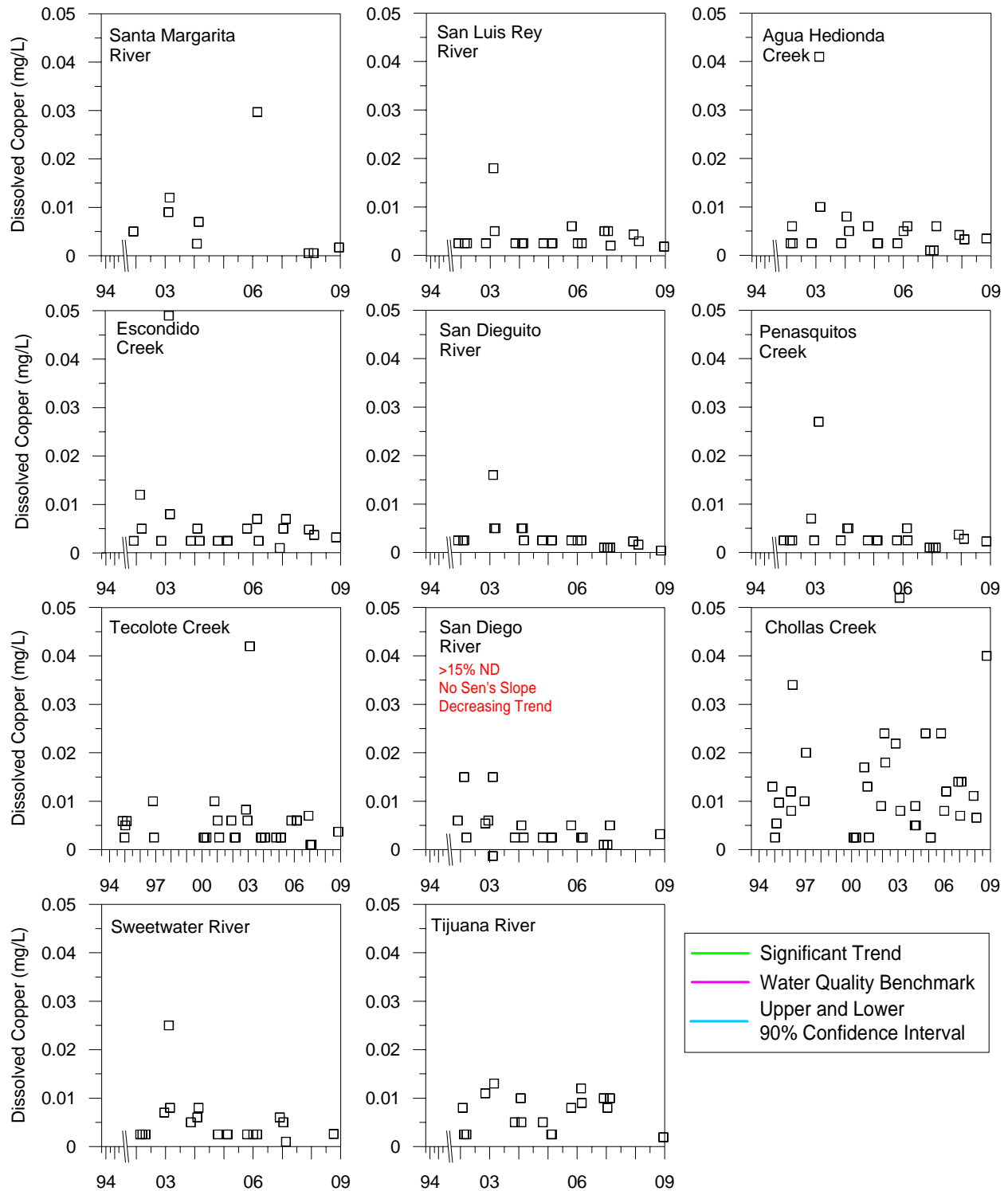
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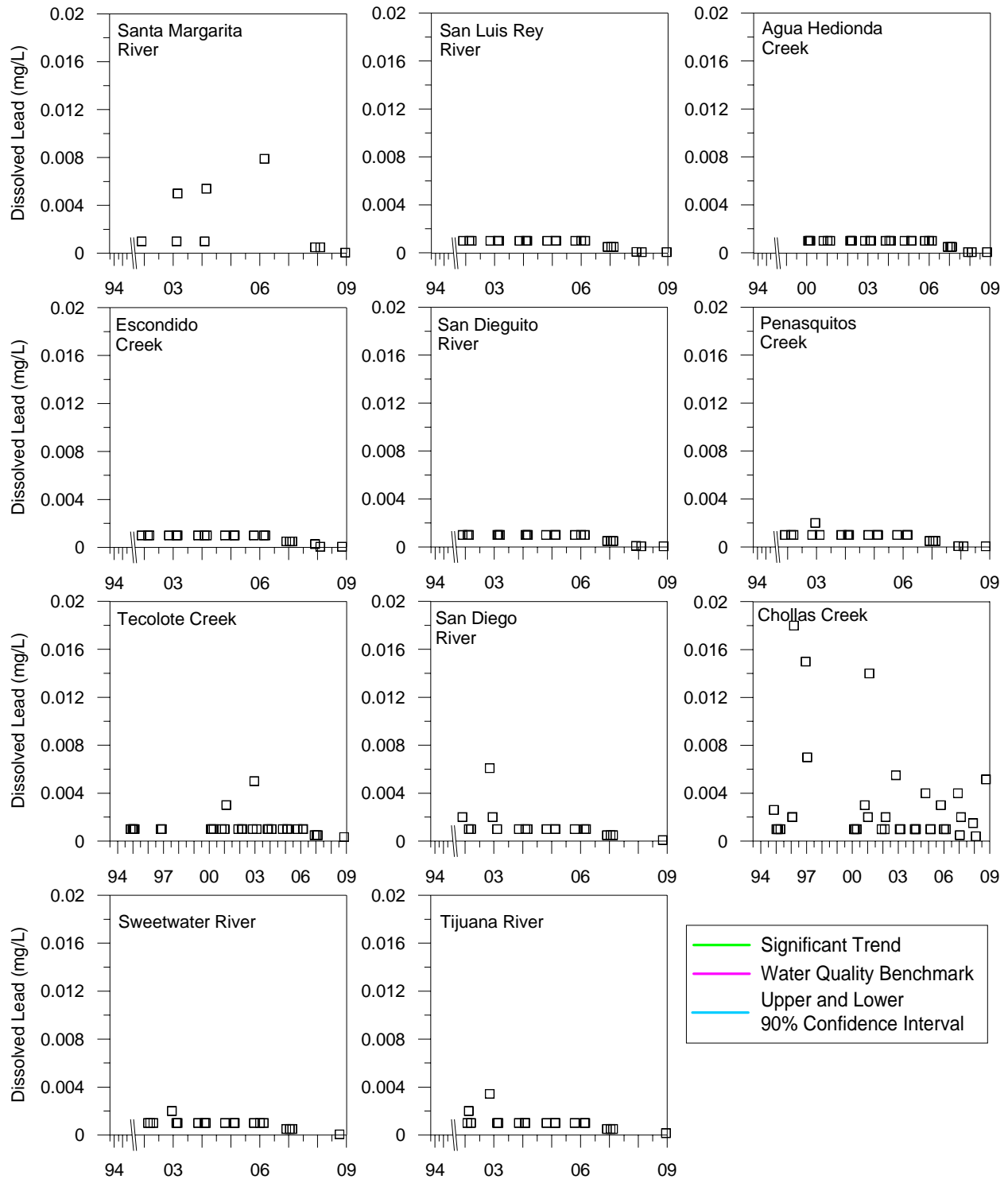
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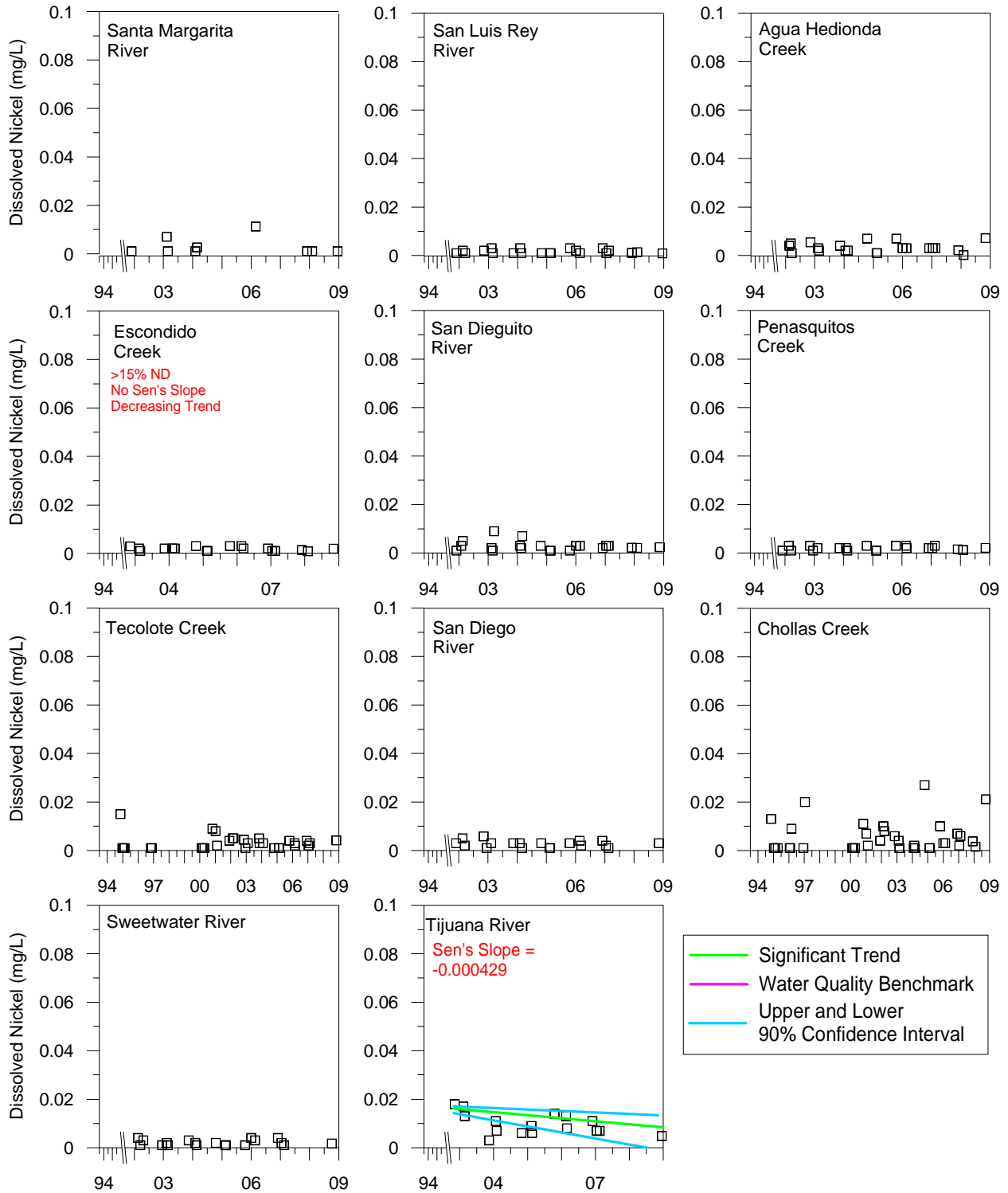
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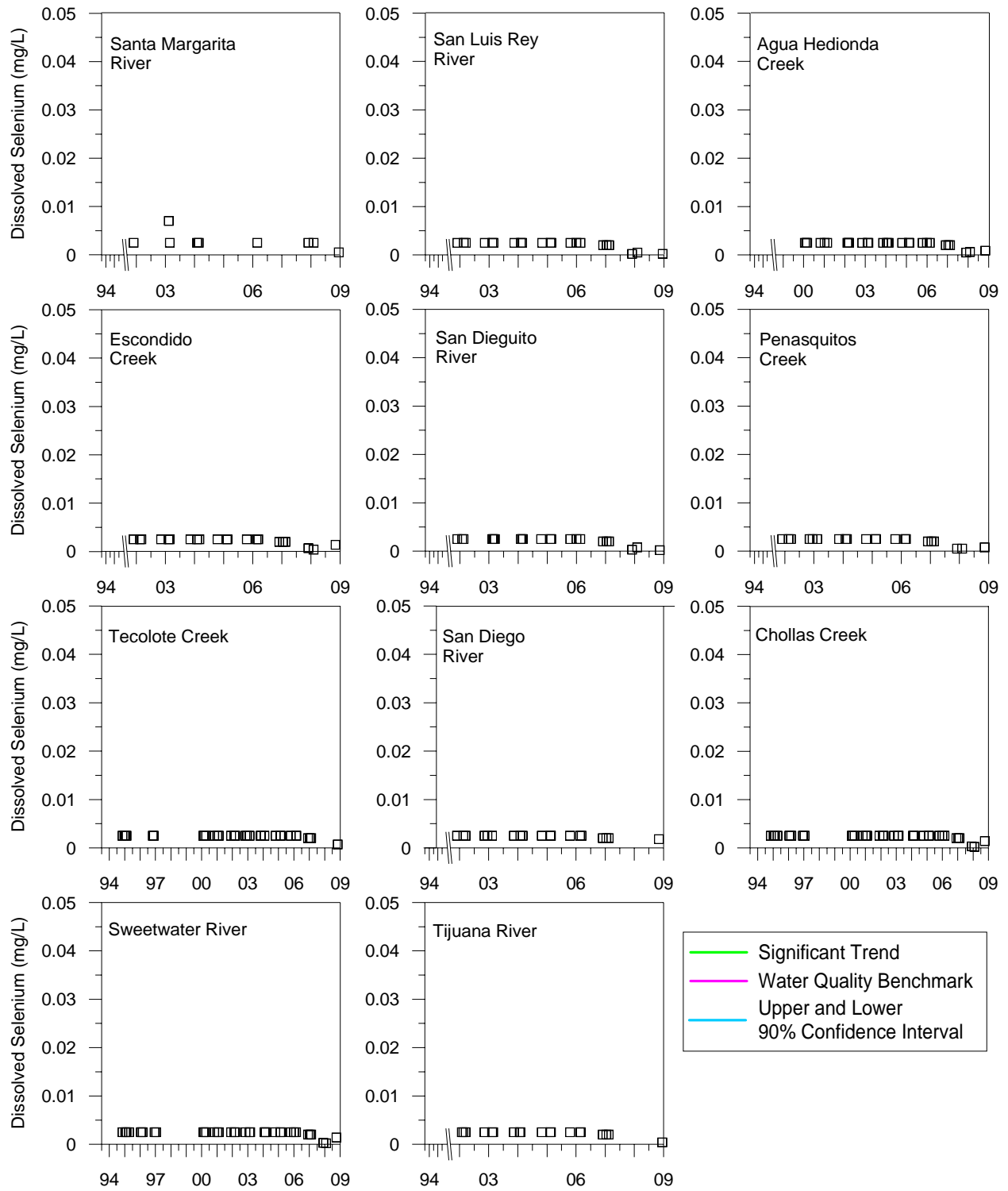
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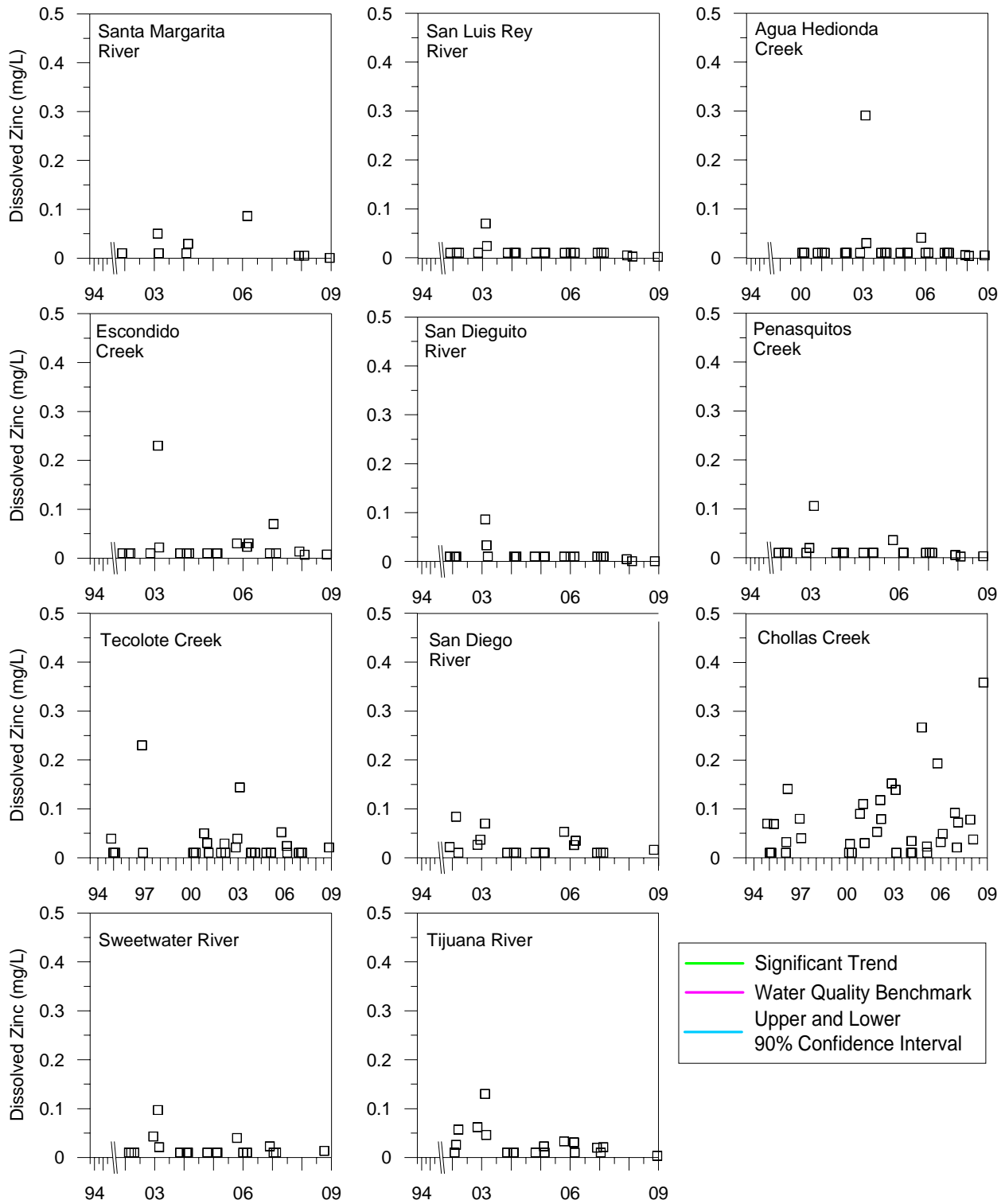
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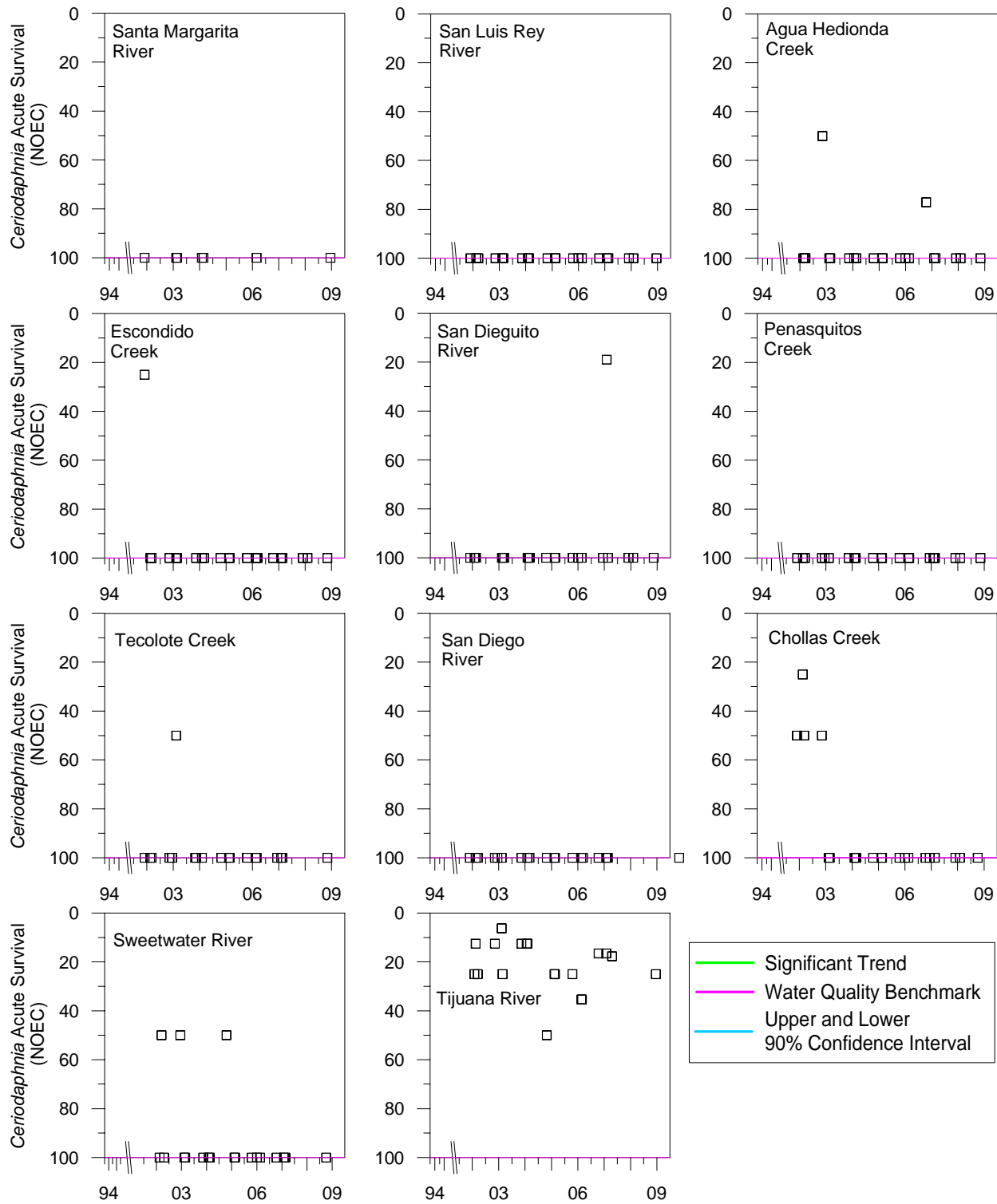
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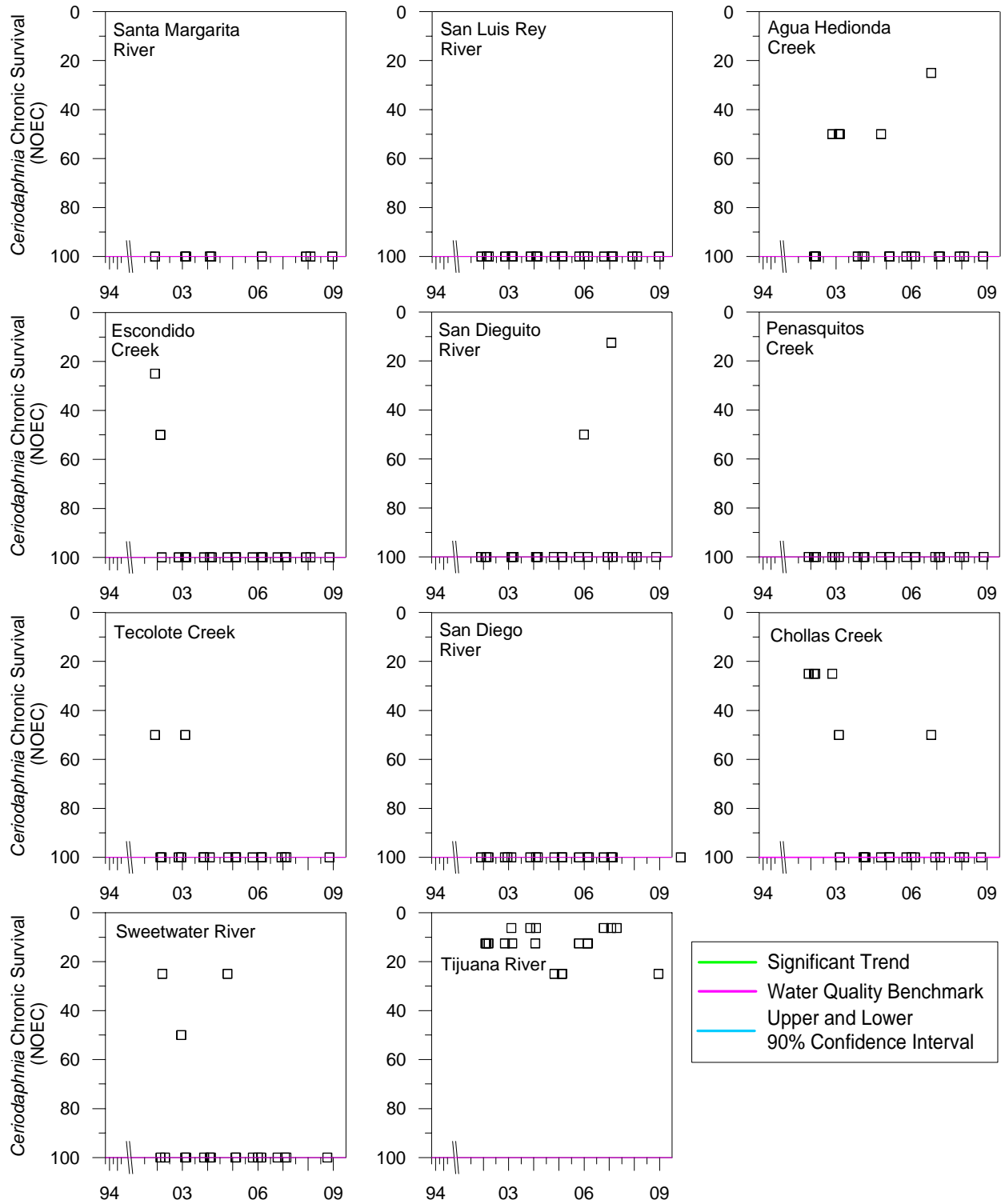
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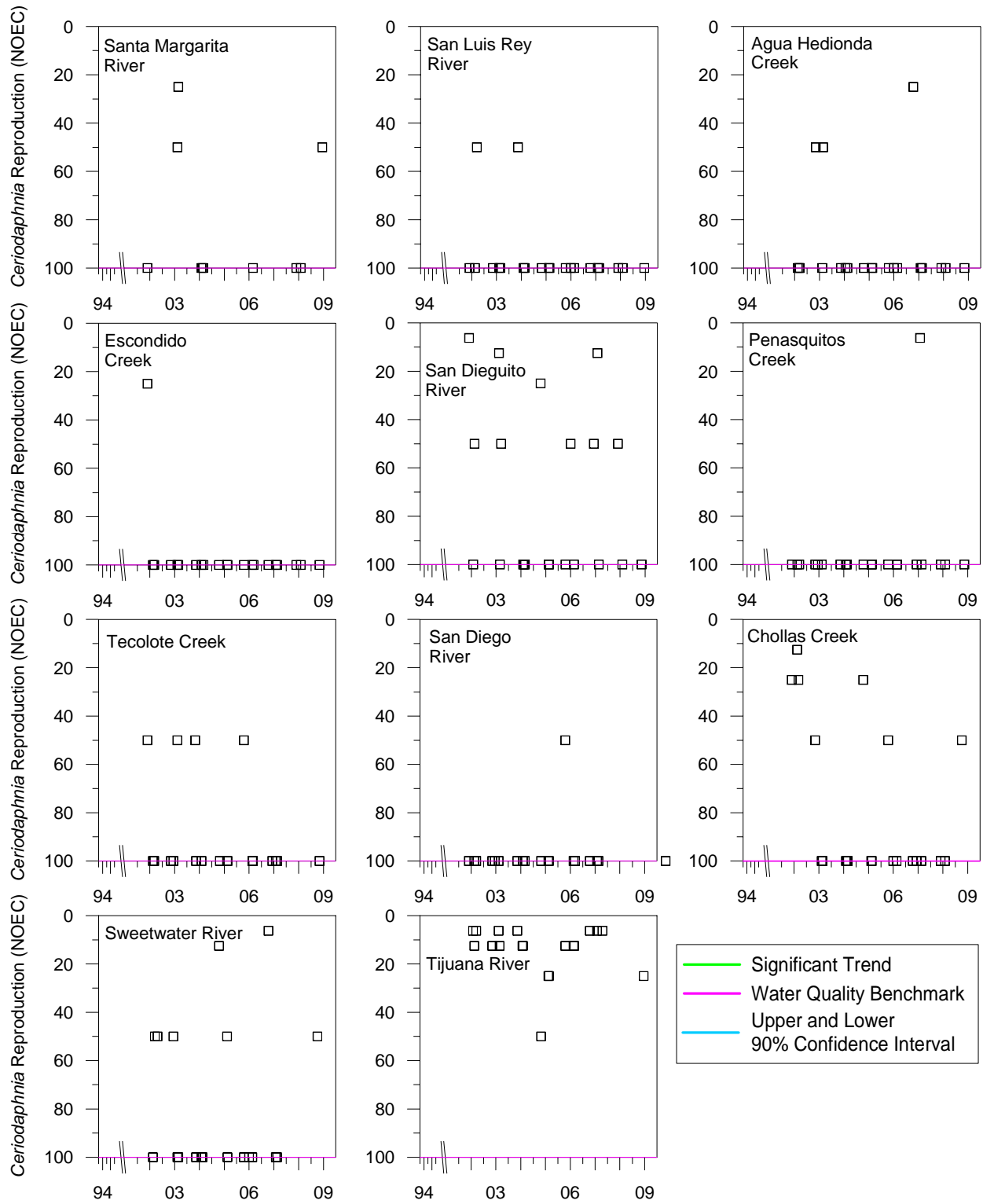
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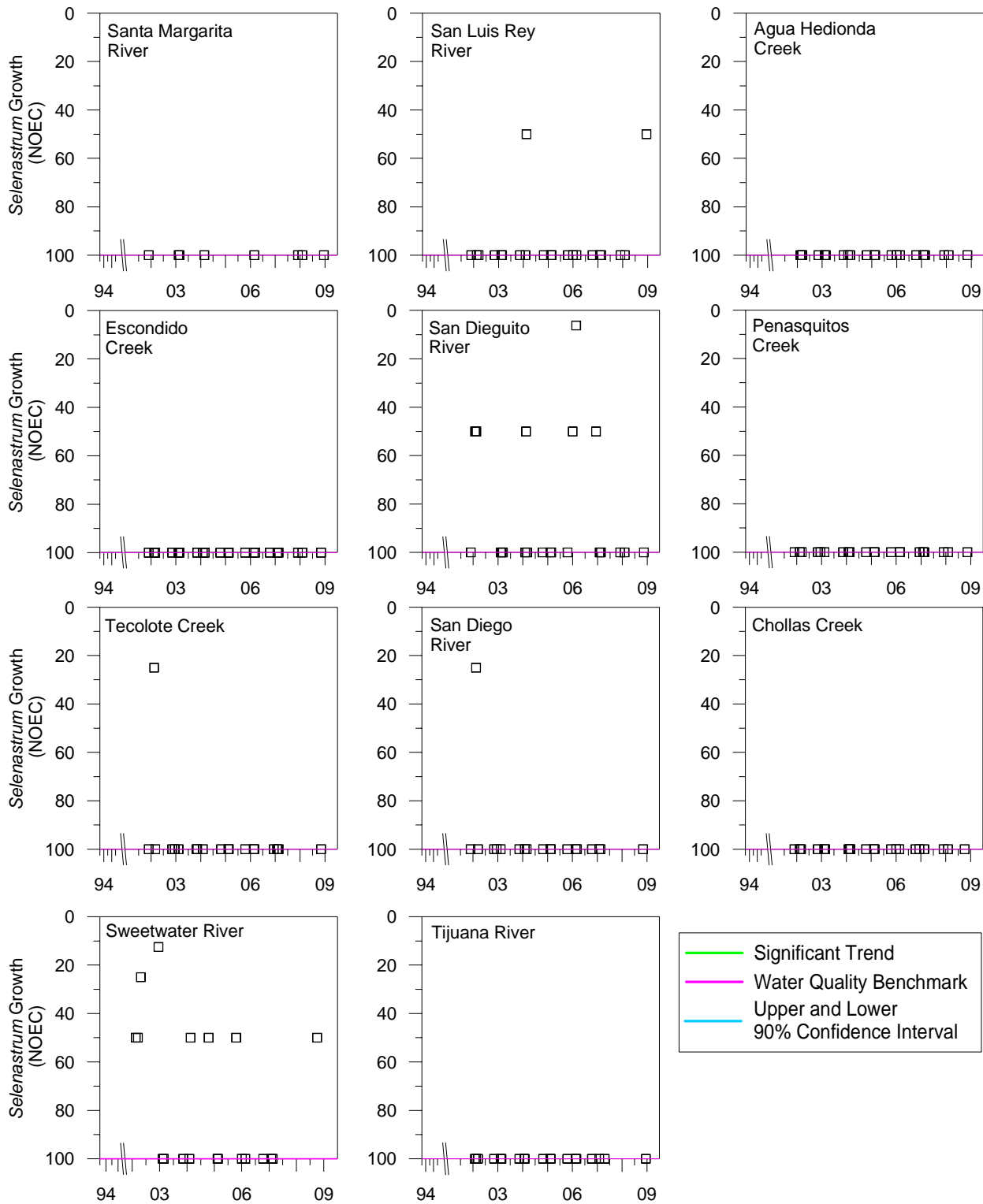
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