

## **Appendix A8: Heavy Metal and Trace Constituent Removals from Full-Scale Column Tests**

This appendix contains information pertaining to the removal of heavy metals and trace constituents from the treated stormwater by each media column during long-term, full-depth, column tests. The following summary describes the sets of figures in this appendix.

The appendix is organized showing the removal results for the heavy metals and trace constituents for each of the ten media combinations examined, in the following order:

- Granular activated carbon (GAC)
- Peat moss (P)
- Rhyolite sand (R)
- Site filter sand
- Site zeolite (Z)
- Surface modified zeolite (SMZ)
- Rhyolite sand and surface modified zeolite (R-SMZ)
- Rhyolite sand – surface modified zeolite – granular activated carbon (R-SMZ-GAC)
- Rhyolite sand, surface modified zeolite, granular activated carbon, and peat moss (R-SMZ-GAC-P)
- Layered site filter sand, site zeolite, and granular activated carbon (layered S-Z-GAC)

Each section describes performance with the following plots and tables:

- ANOVA for regression plot of influent vs. effluent concentration for each constituent
- Scatterplot of influent vs. effluent concentrations, with best-fit regression line and equation (or COV if a constant)
- Line plot showing influent vs. effluent concentrations
- Scatterplot but without regression line to better see actual data

In each of these sets, these analyses are presented for different heavy metals and trace constituents:

- Arsenic, total and filtered
- Aluminum, total and filtered
- Boron, total and filtered
- Calcium, total and filtered
- Cadmium, total and filtered
- Copper, total and filtered
- Iron, total and filtered

Magnesium, total and filtered  
 Manganese, total and filtered  
 Nickel, total and filtered  
 Lead, total and filtered  
 Zinc, total and filtered  
 Potassium, total and filtered  
 Sodium, total and filtered  
 Chromium, total and filtered  
 Thallium, total and filtered  
 Antimony, total and filtered

**Locations of Major Appendix A8 Sections:**

GAC .....	3
Peat Moss (P) .....	60
Rhyolite Sand (R) .....	117
Site Sand (S) .....	174
Site Zeolite .....	230
SMZ .....	286
R-SMZ .....	342
R-SMZ-G .....	399
R-SMZ-G-P.....	456
Layered SZG.....	513

# GAC

## As Total

GAC

### SUMMARY OUTPUT

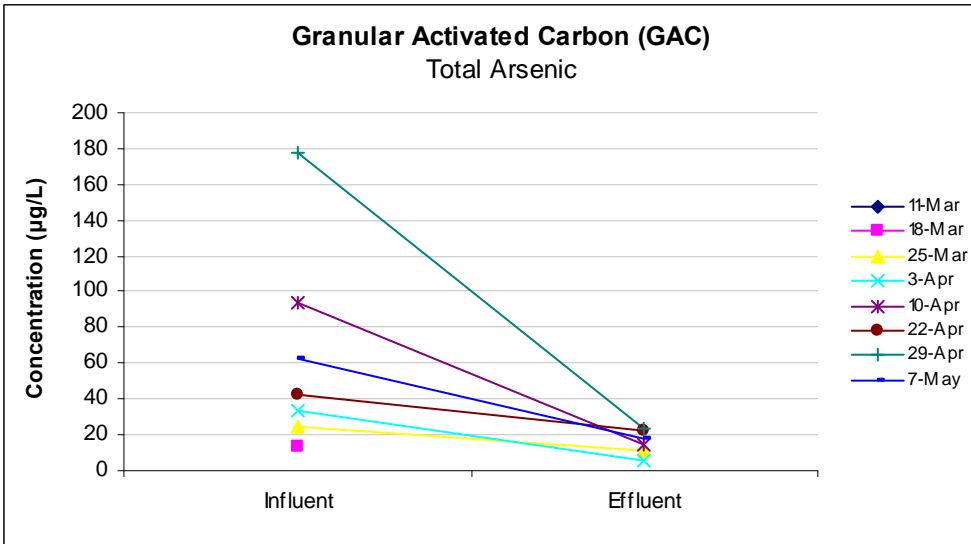
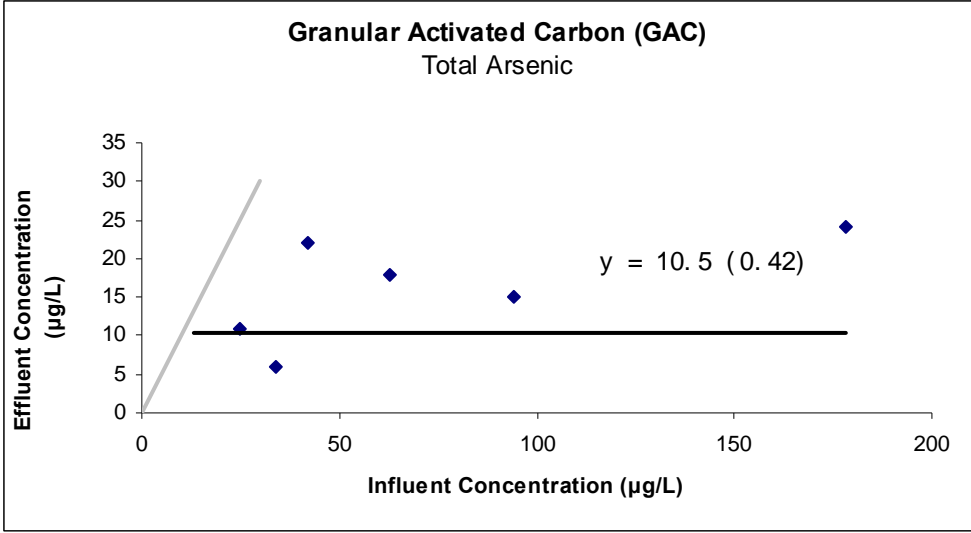
<i>Regression Statistics</i>	
Multiple R	0.641
R Square	0.411
Adjusted R Square	0.264
Standard Error	5.820
Observations	6.000

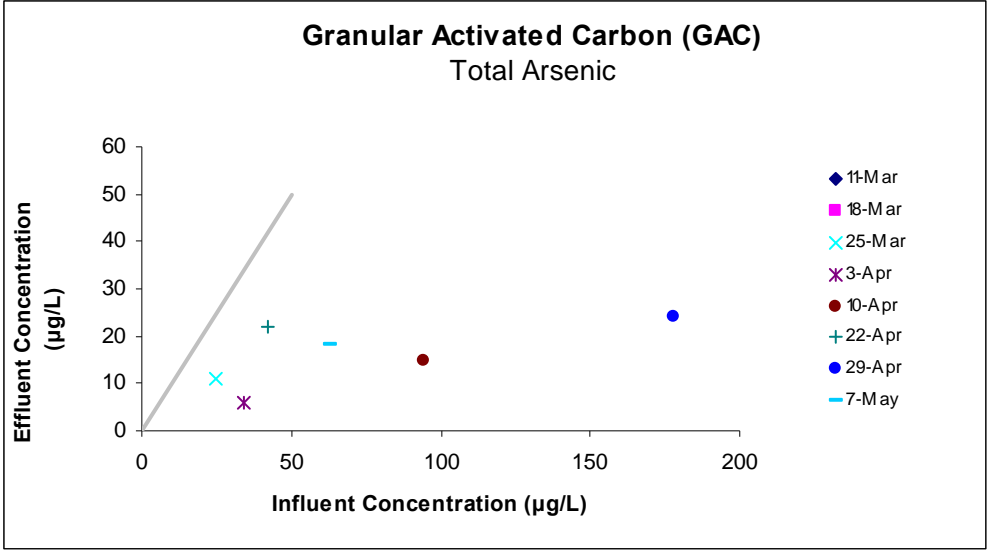
ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1.000	94.491	94.491	2.789	0.170
Residual	4.000	135.509	33.877		
Total	5.000	230.000			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	10.476	4.073	2.572	0.062	-0.831	21.783	-0.831	21.783
X Variable 1	0.076	0.046	1.670	0.170	-0.050	0.202	-0.050	0.202

### RESIDUAL OUTPUT

<i>Observation</i>	<i>Predicted Y</i>	<i>Residuals</i>
1	12.376	-1.376
2	13.061	-7.061
3	17.622	-2.622
4	13.669	8.331
5	24.007	-0.007
6	15.265	2.735





# As Dissolved

GAC

## SUMMARY OUTPUT

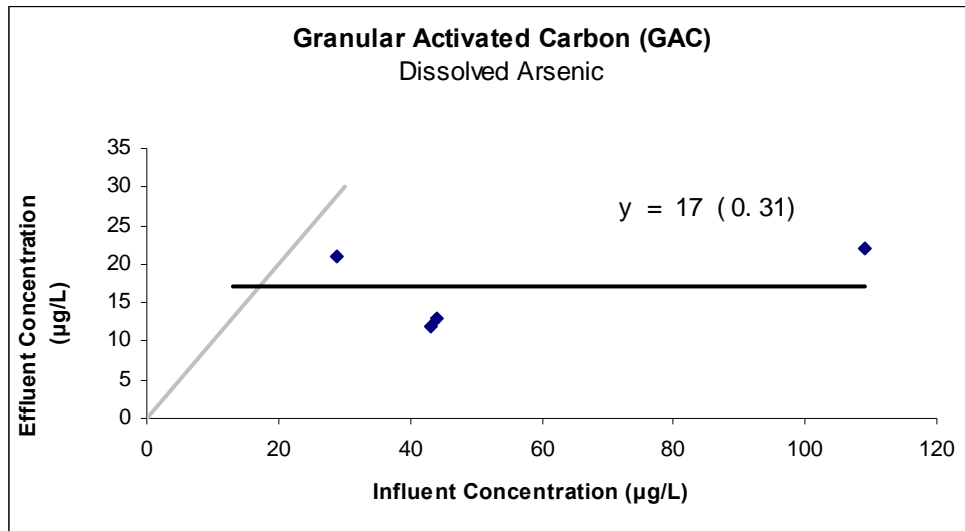
Regression Statistics	
Multiple R	0.480
R Square	0.231
Adjusted R Square	-0.154
Standard Error	5.616
Observations	4.000

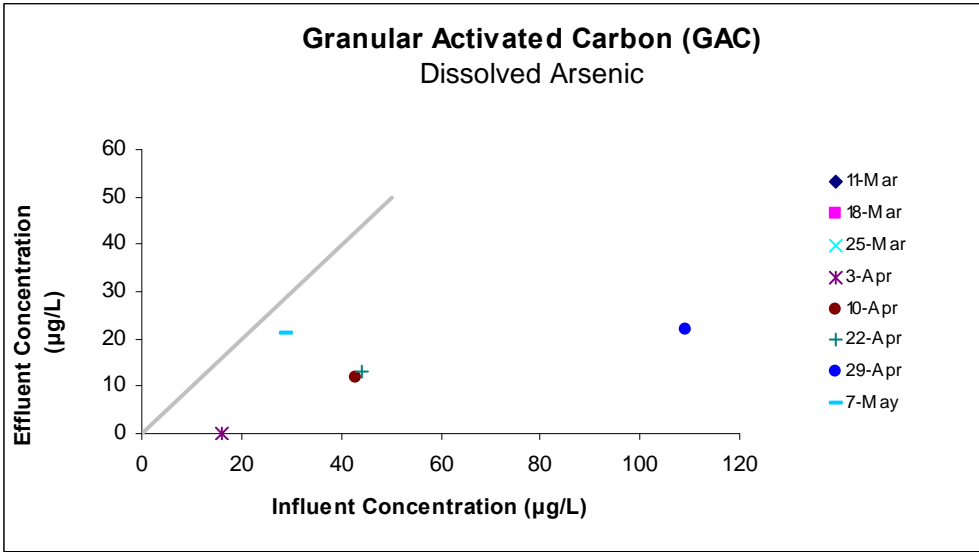
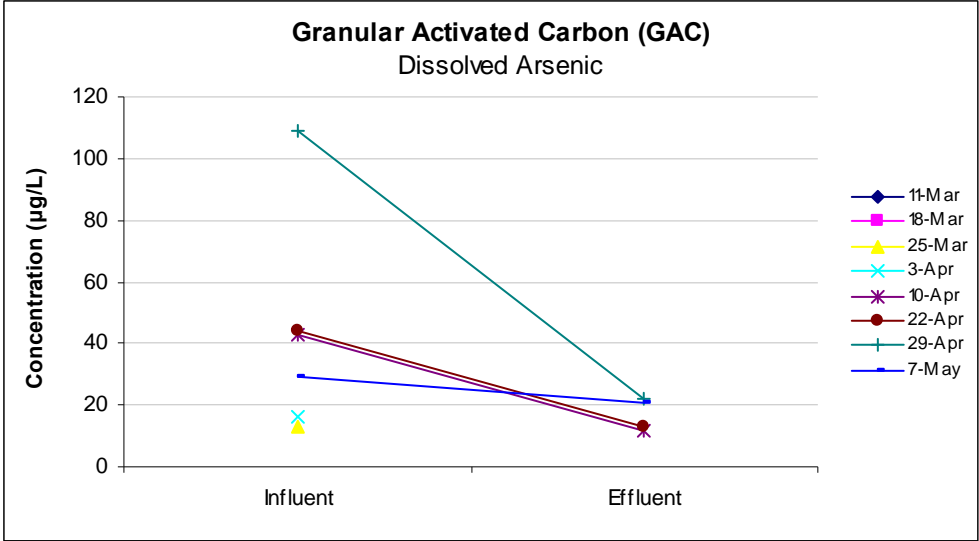
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	18.931	18.931	0.600	0.520
Residual	2.000	63.069	31.534		
Total	3.000	82.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	13.056	5.813	2.246	0.154	-11.957	38.069	-11.957	38.069
X Variable 1	0.070	0.090	0.775	0.520	-0.319	0.459	-0.319	0.459

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	16.071	-4.071
2	16.141	-3.141
3	20.699	1.301
4	15.089	5.911





# Al Total

GAC

## SUMMARY OUTPUT

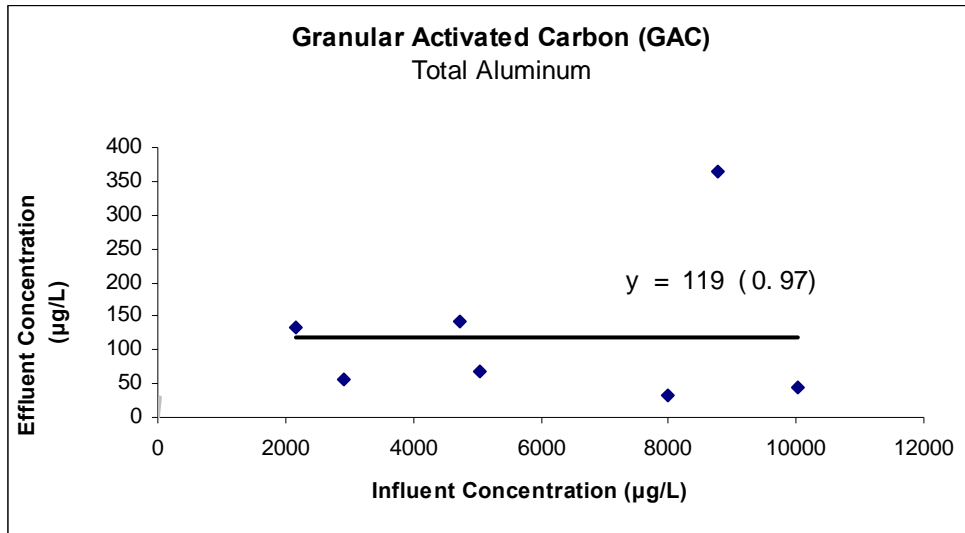
Regression Statistics	
Multiple R	0.174
R Square	0.030
Adjusted R Square	-0.164
Standard Error	124.935
Observations	7.000

ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	2446.557	2446.557	0.157	0.709
Residual	5.000	78043.157	15608.631		
Total	6.000	80489.714			

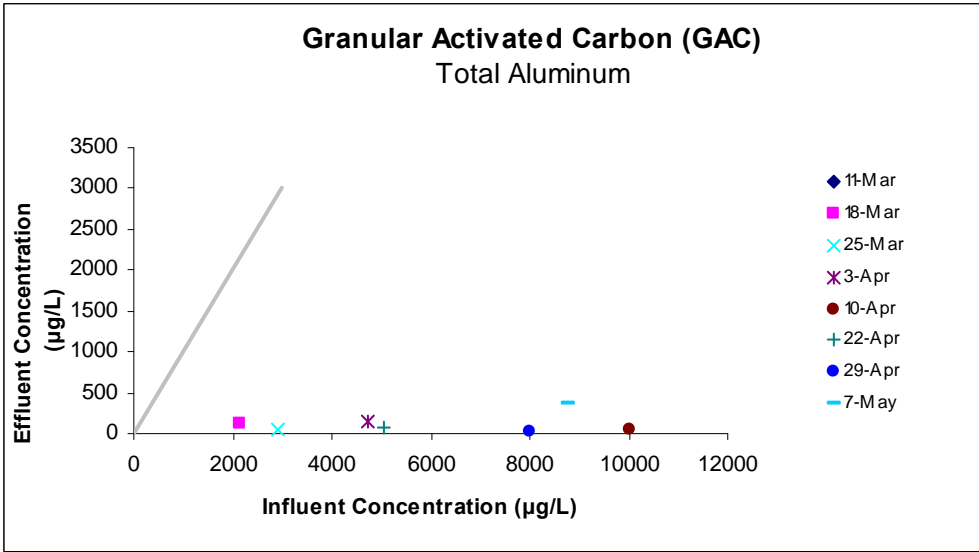
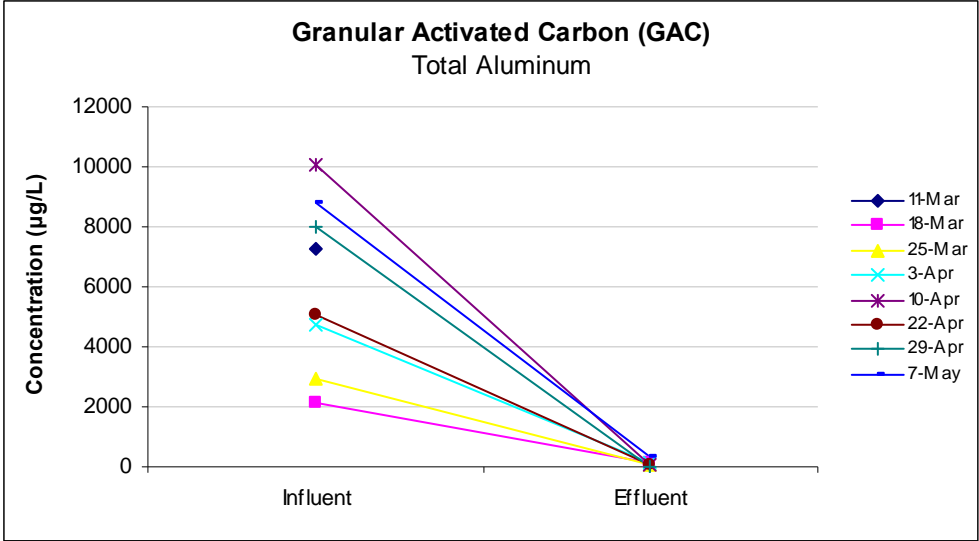
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	79.821	110.954	0.719	0.504	-205.396	365.037	-205.396	365.037
X Variable 1	0.007	0.017	0.396	0.709	-0.037	0.050	-0.037	0.050

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	94.222	37.778
2	99.261	-43.261
3	111.437	29.563
4	146.895	-103.895
5	113.542	-44.542
6	133.162	-101.162
7	138.482	225.518







# Al Dissolved

GAC

## SUMMARY OUTPUT

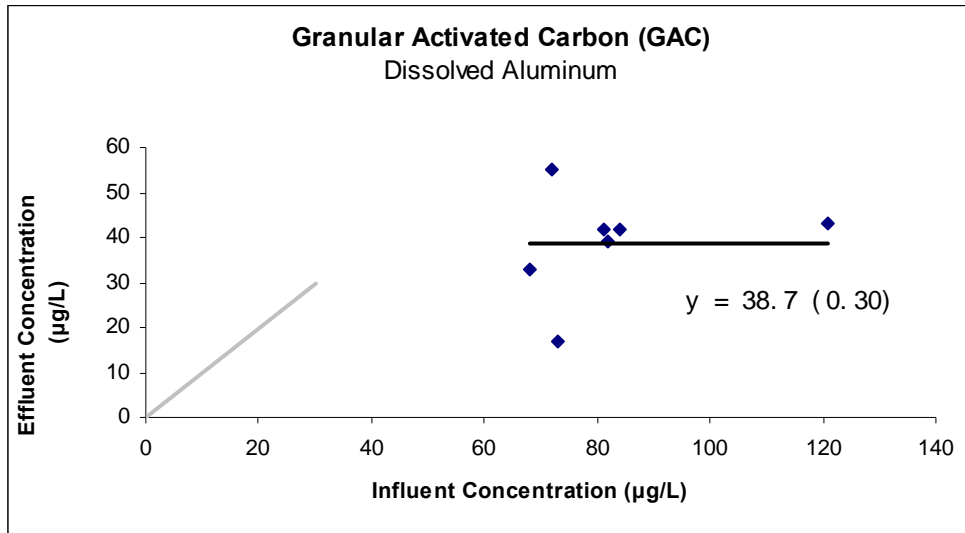
Regression Statistics	
Multiple R	0.228
R Square	0.052
Adjusted R Square	-0.137
Standard Error	12.387
Observations	7.000

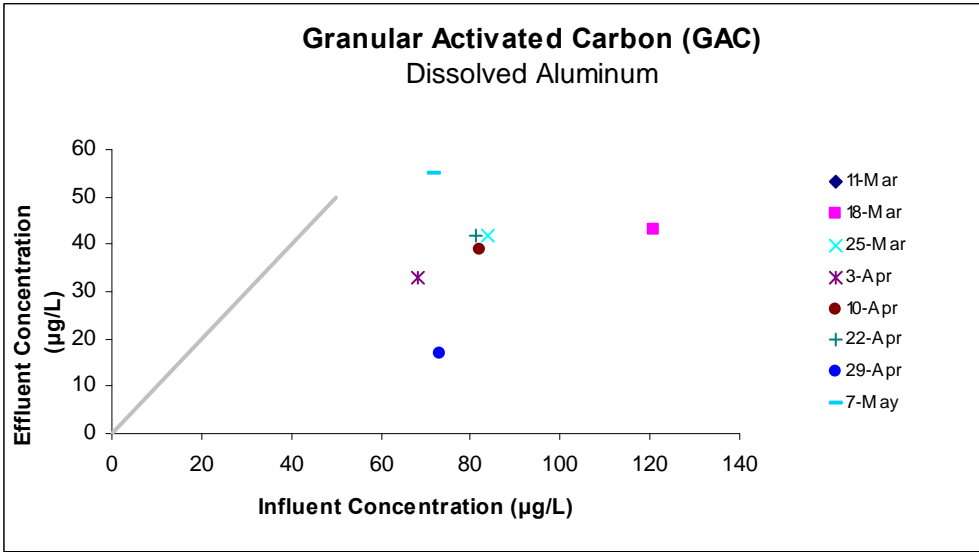
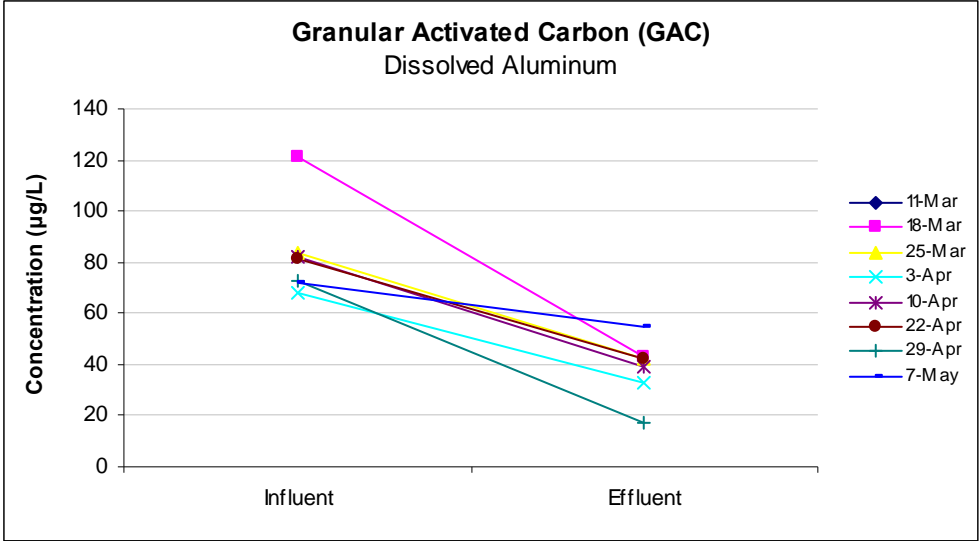
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	42.241	42.241	0.275	0.622
Residual	5.000	767.188	153.438		
Total	6.000	809.429			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	26.326	24.071	1.094	0.324	-35.552	88.203	-35.552	88.203
X Variable 1	0.149	0.284	0.525	0.622	-0.582	0.881	-0.582	0.881

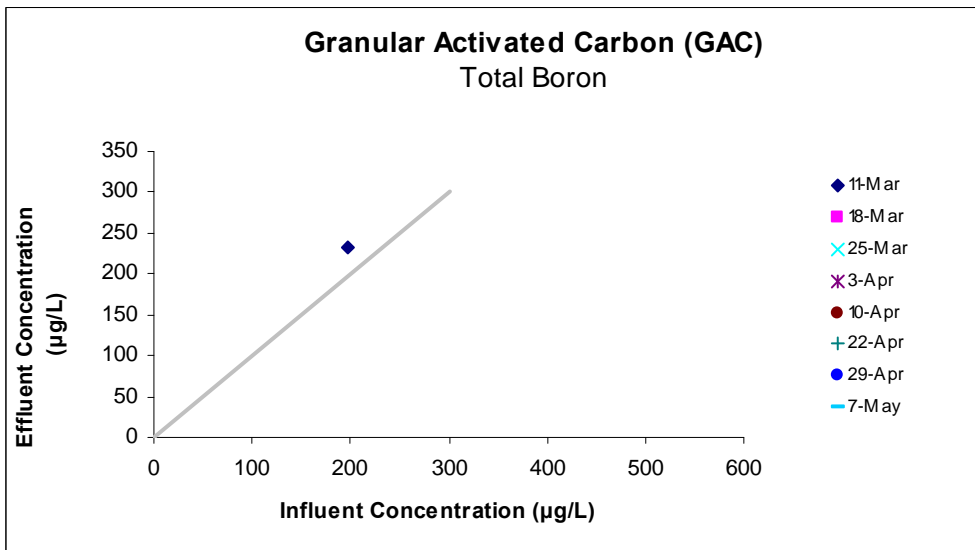
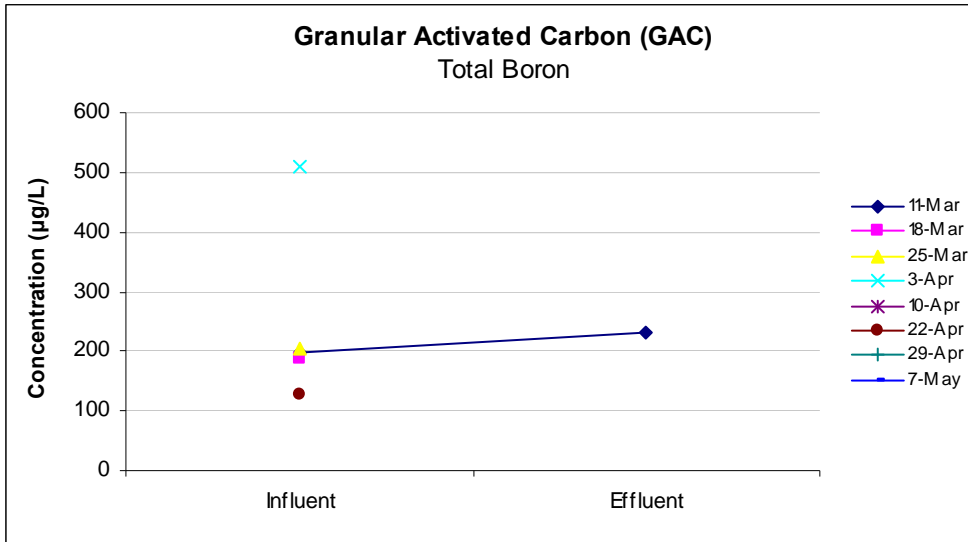
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	44.386	-1.386
2	38.864	3.136
3	36.475	-3.475
4	38.565	0.435
5	38.416	3.584
6	37.222	-20.222
7	37.072	17.928

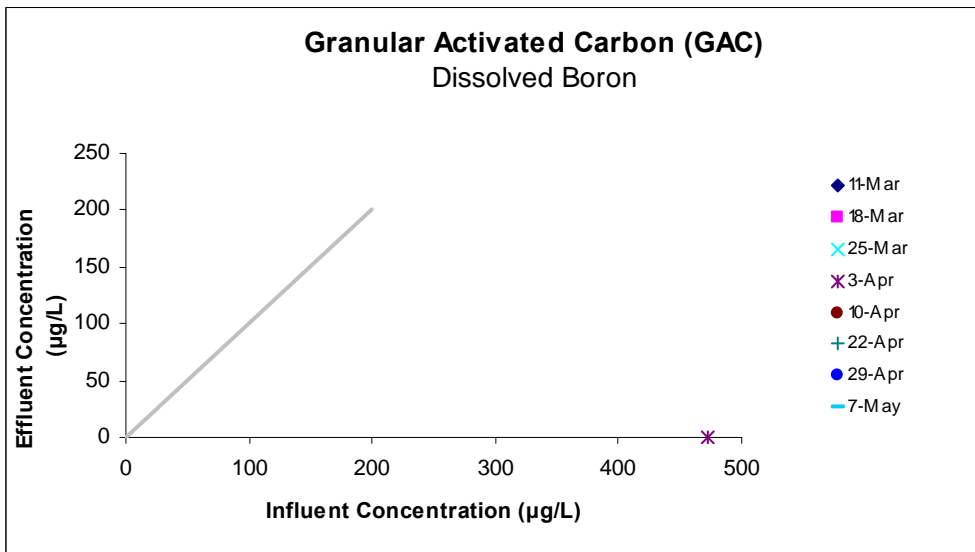
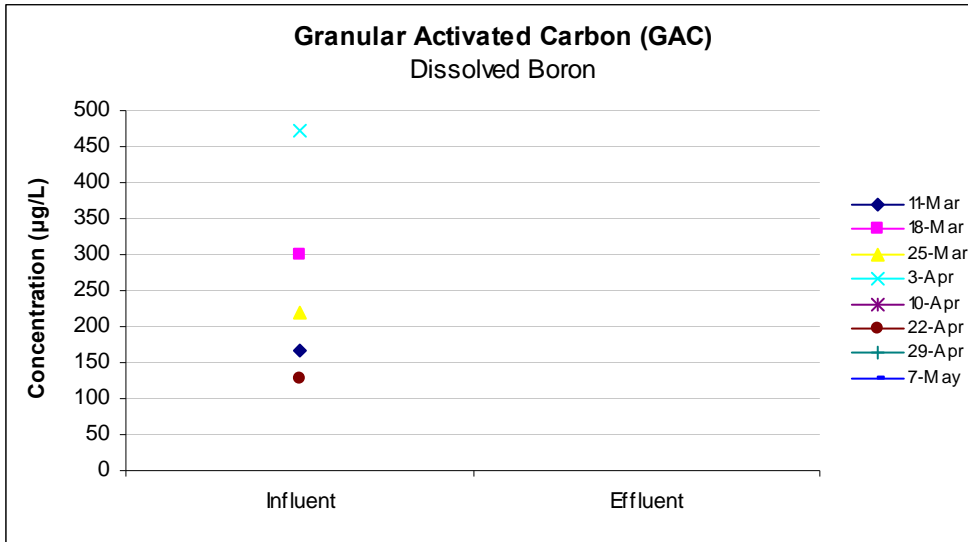




Boron Total



## Boron Dissolved



# Ca Total

GAC

## SUMMARY OUTPUT

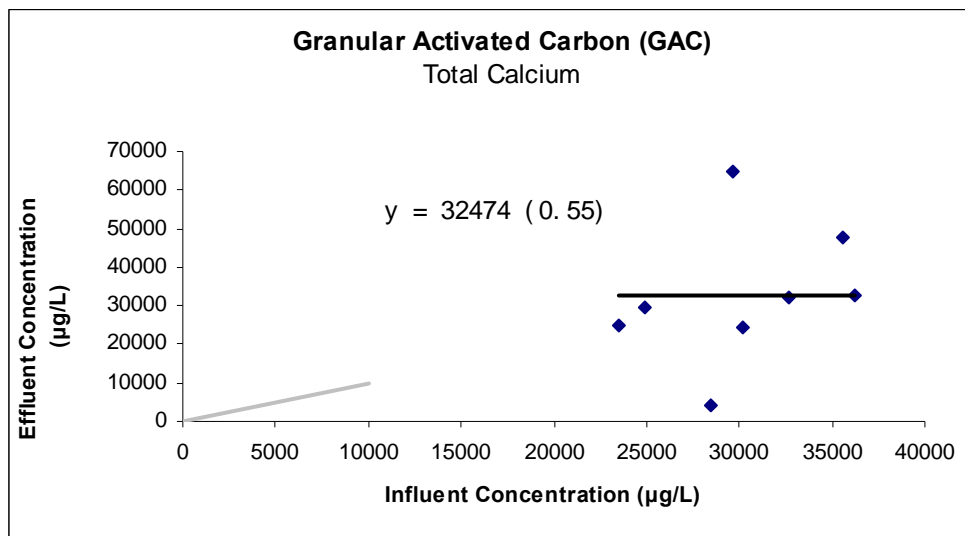
Regression Statistics	
Multiple R	0.316
R Square	0.100
Adjusted R Square	-0.050
Standard Error	18141.045
Observations	8.000

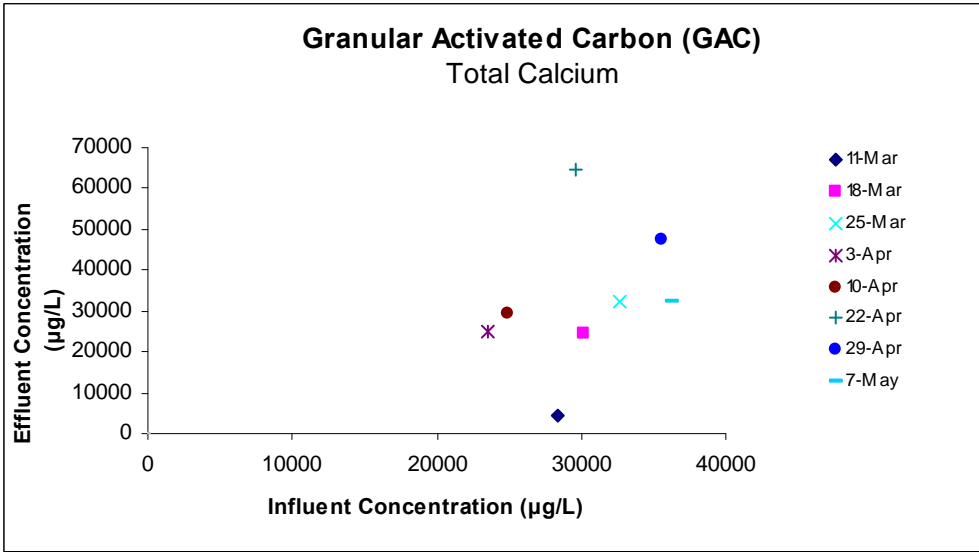
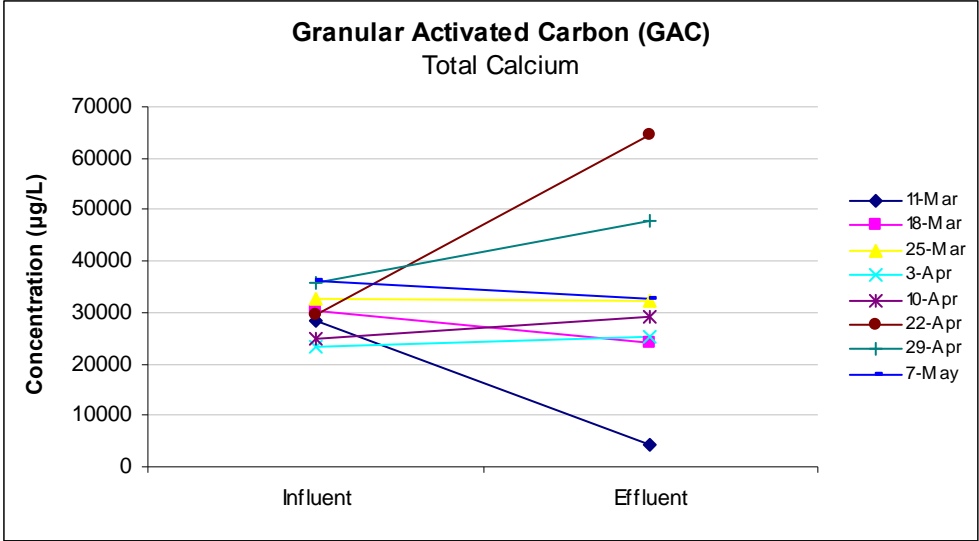
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	219393319.553	219393319.553	0.667	0.445
Residual	6.000	1974585009.947	329097501.658		
Total	7.000	2193978329.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-4110.296	45263.360	-0.091	0.931	-114865.748	106645.155	-114865.748	106645.155
X Variable 1	1.214	1.486	0.816	0.445	-2.424	4.851	-2.424	4.851

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	30383.931	-26199.931
2	32555.219	-8295.219
3	35502.053	-3317.053
4	24388.312	705.688
5	26069.270	3254.730
6	31887.690	32692.310
7	39096.997	8573.003
8	39906.527	-7413.527





# Dissolved Ca

GAC

## SUMMARY OUTPUT

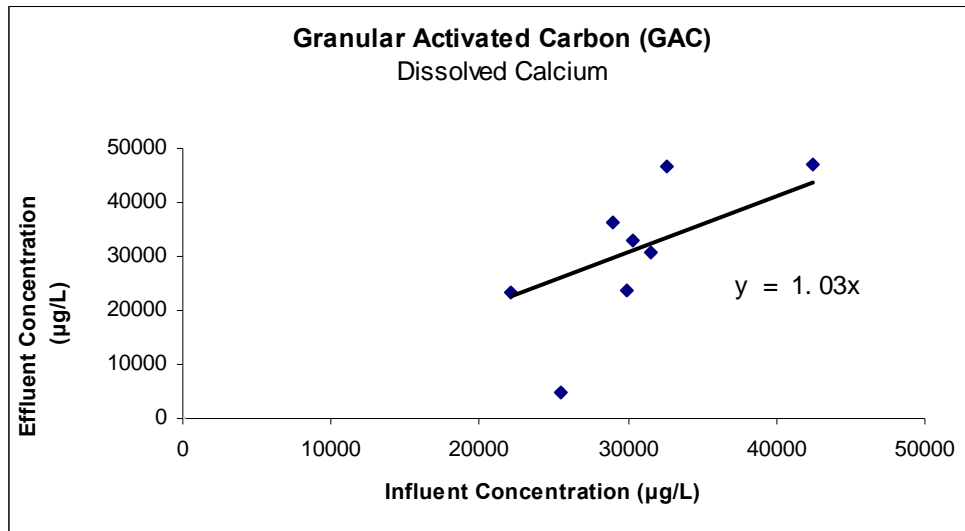
Regression Statistics	
Multiple R	0.957
R Square	0.916
Adjusted R Square	0.773
Standard Error	10298.219
Observations	8.000

ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	8082894770.664	8082894770.664	76.215	0.000
Residual	7.000	742373242.336	106053320.334		
Total	8.000	8825268013.000			

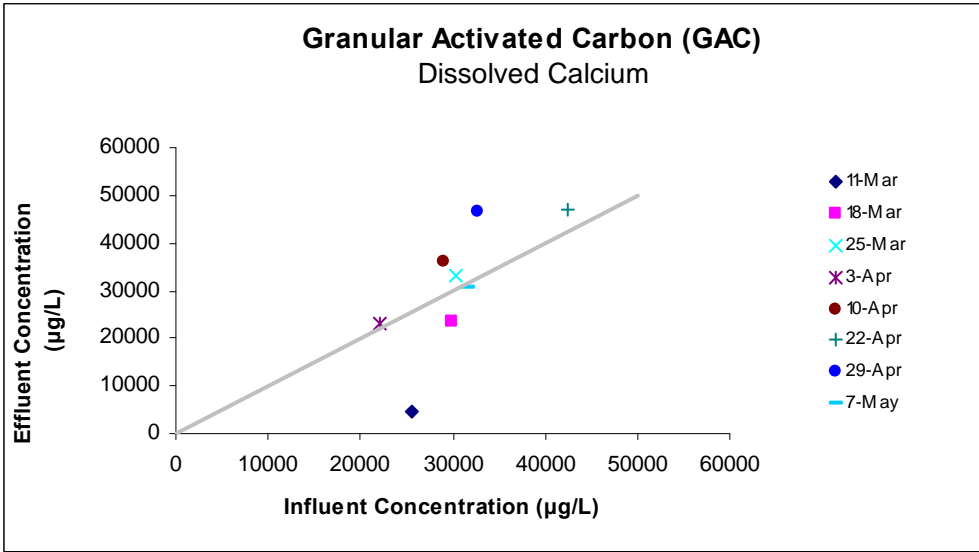
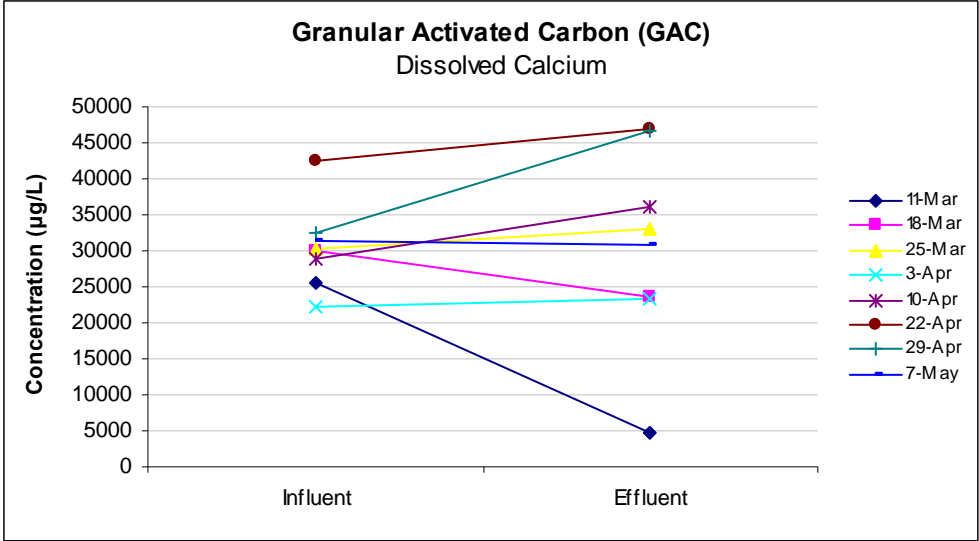
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	1.028	0.118	8.730	0.000	0.749	1.306	0.749	1.306

## RESIDUAL OUTPUT

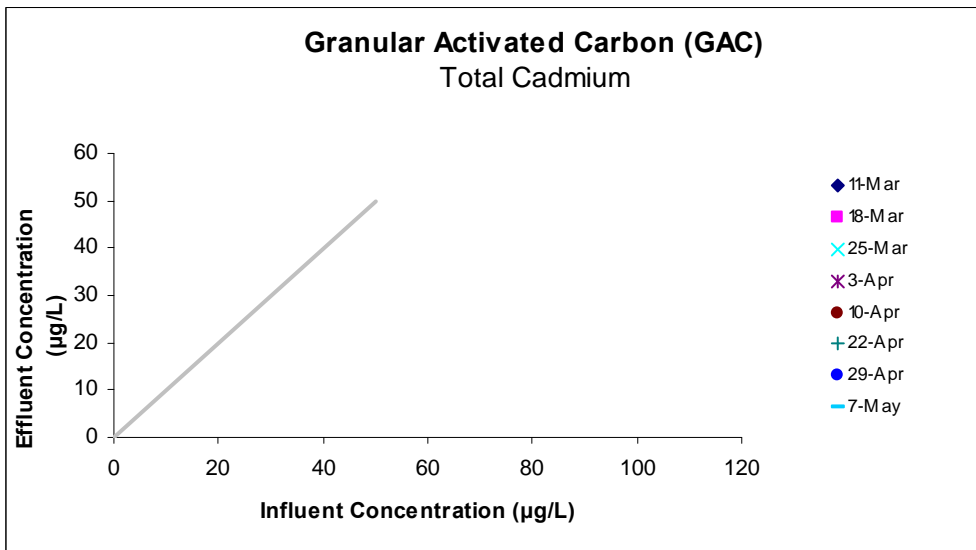
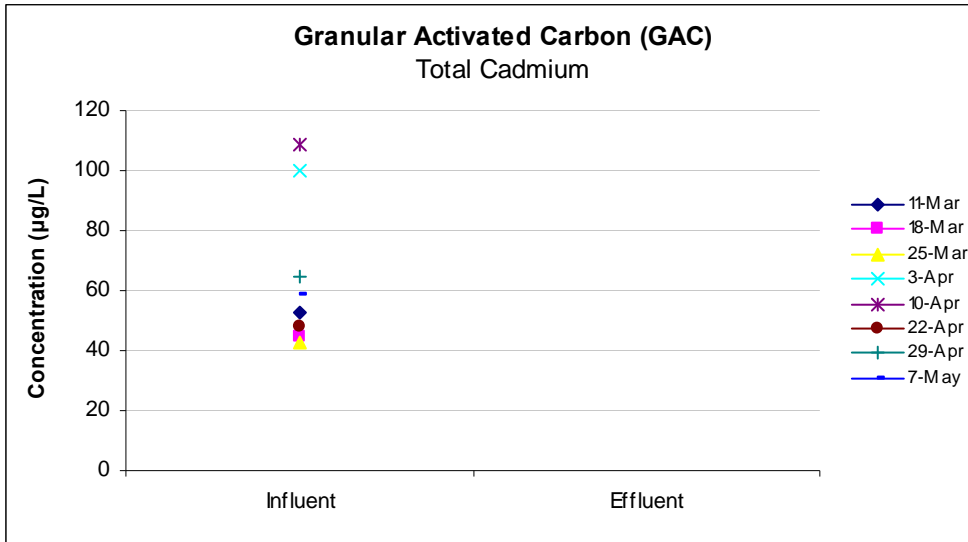
Observation	Predicted Y	Residuals
1	26209.543	-21499.543
2	30816.075	-7158.075
3	31105.910	1834.090
4	22762.353	455.647
5	29773.901	6411.099
6	43588.358	3271.642
7	33536.622	13063.378
8	32395.781	-1695.781



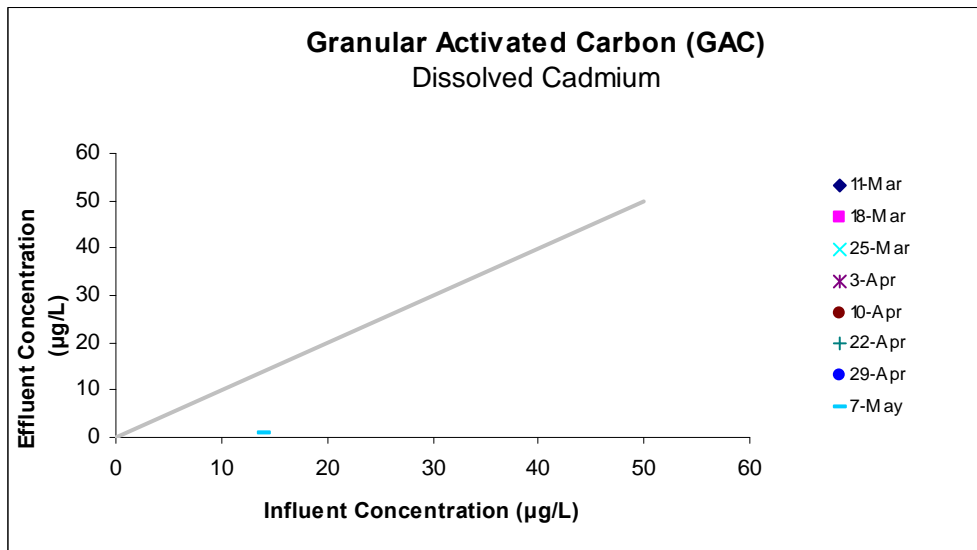
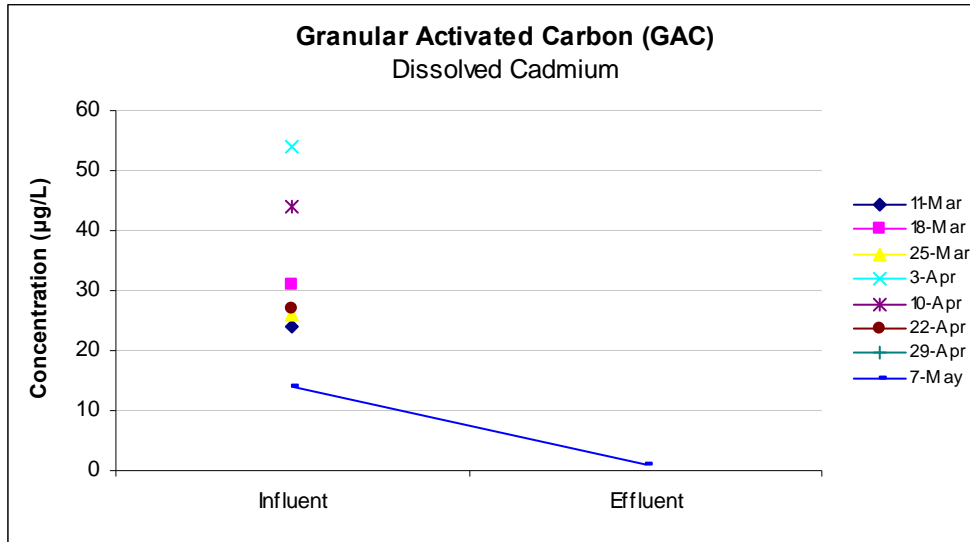




Total Cd



Dissolved Cd



# Total Cu

GAC

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.308
R Square	0.095
Adjusted R Square	-0.131
Standard Error	3.908
Observations	6.000

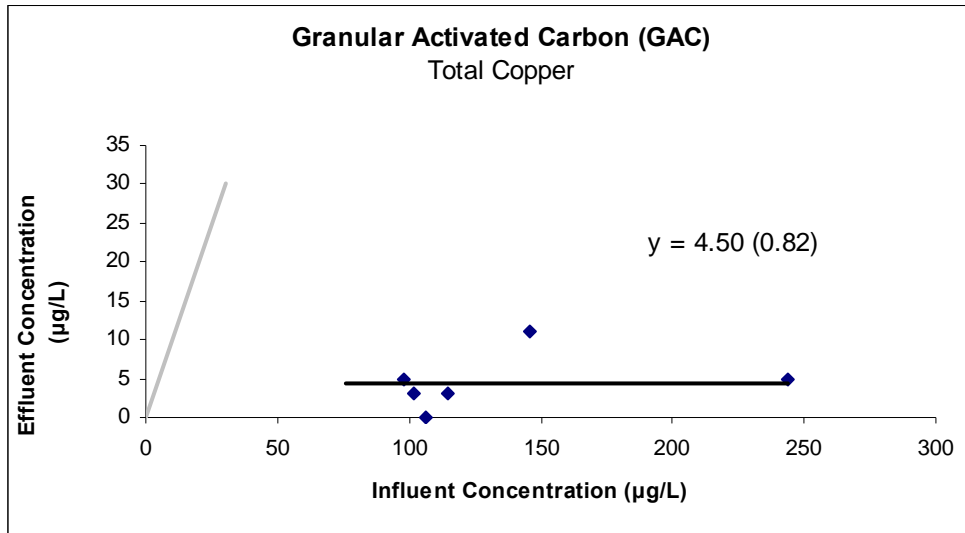
## ANOVA

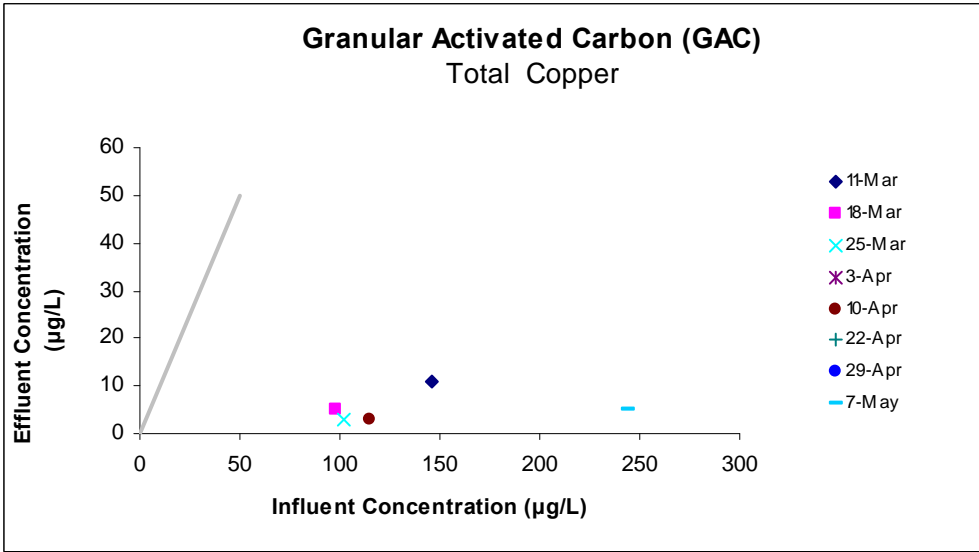
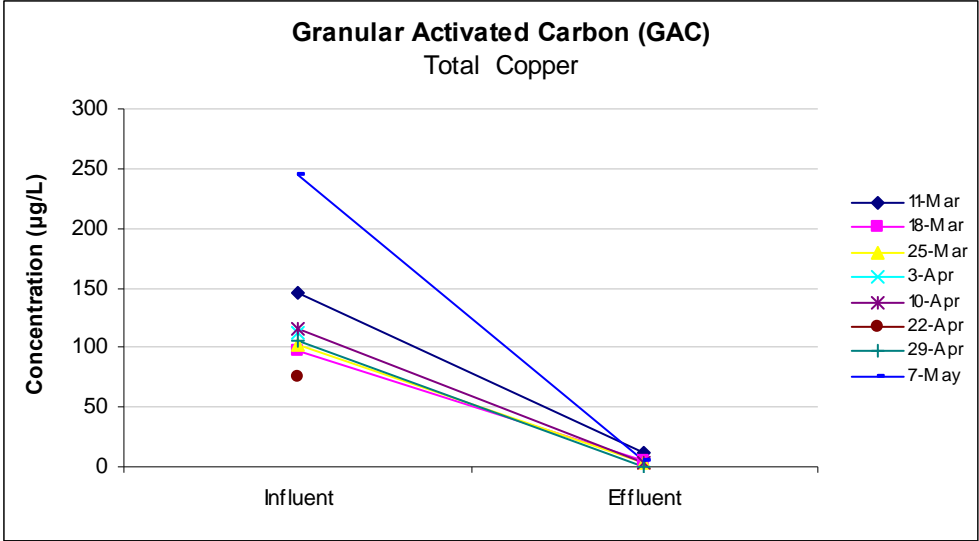
	df	SS	MS	F	Significance F
Regression	1.000	6.420	6.420	0.420	0.552
Residual	4.000	61.080	15.270		
Total	5.000	67.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	1.767	4.507	0.392	0.715	-10.747	14.280	-10.747	14.280
X Variable 1	0.020	0.031	0.648	0.552	-0.066	0.107	-0.066	0.107

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	4.719	6.281
2	3.748	1.252
3	3.829	-0.829
4	4.092	-1.092
5	3.910	-3.910
6	6.701	-1.701





# Dissolved Cu

GAC

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.584
R Square	0.342
Adjusted R Square	0.012
Standard Error	4.322
Observations	4.000

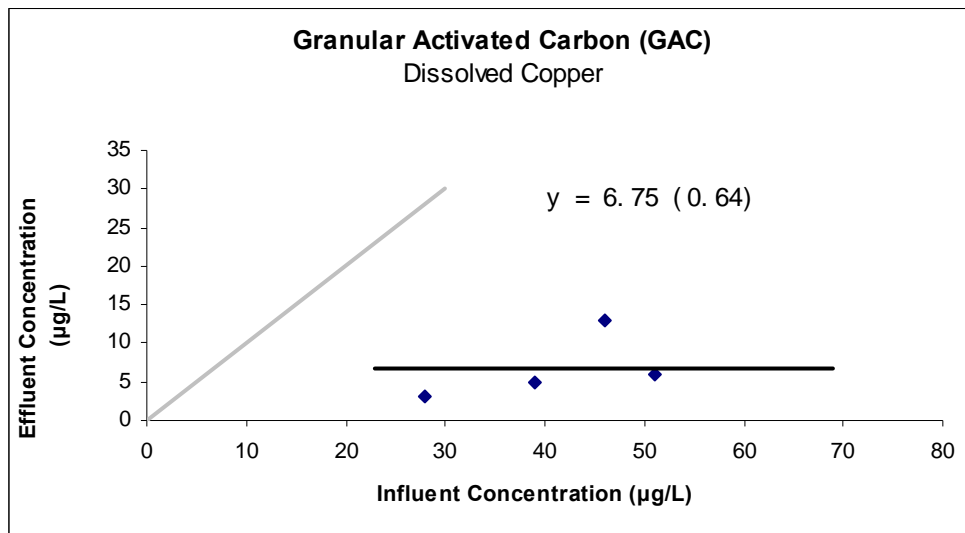
## ANOVA

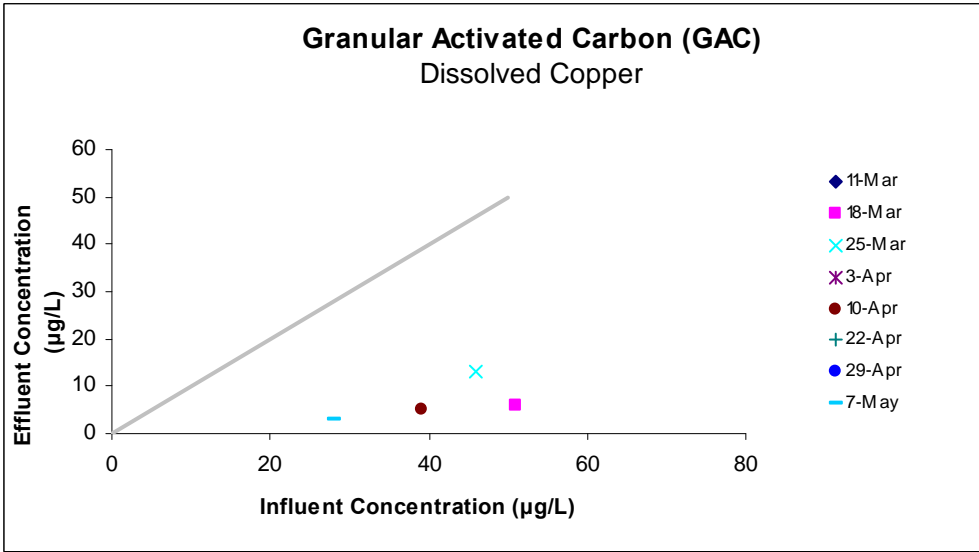
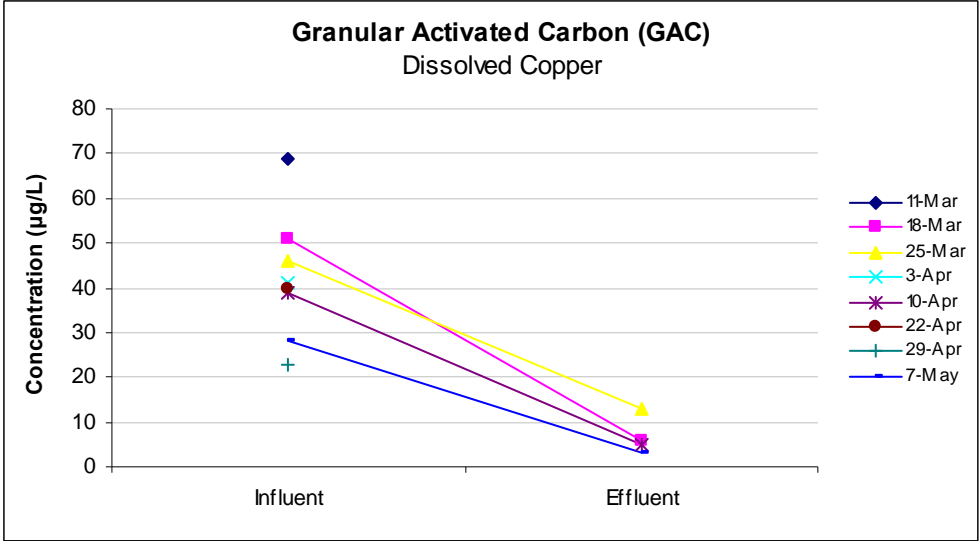
	df	SS	MS	F	Significance F
Regression	1.000	19.383	19.383	1.037	0.416
Residual	2.000	37.367	18.684		
Total	3.000	56.750			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-3.706	10.491	-0.353	0.758	-48.846	41.433	-48.846	41.433
X Variable 1	0.255	0.250	1.019	0.416	-0.822	1.332	-0.822	1.332

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	9.300	-3.300
2	8.025	4.975
3	6.240	-1.240
4	3.435	-0.435





# Fe Total

GAC

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.617
R Square	0.381
Adjusted R Square	0.257
Standard Error	82.842
Observations	7.000

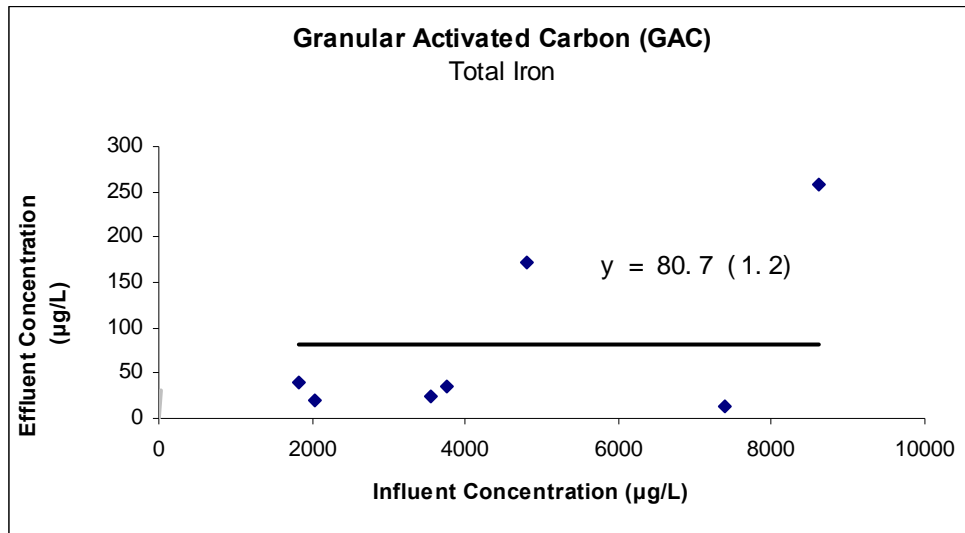
## ANOVA

	df	SS	MS	F	Significance F
Regression	1.000	21091.381	21091.381	3.073	0.140
Residual	5.000	34314.047	6862.809		
Total	6.000	55405.429			

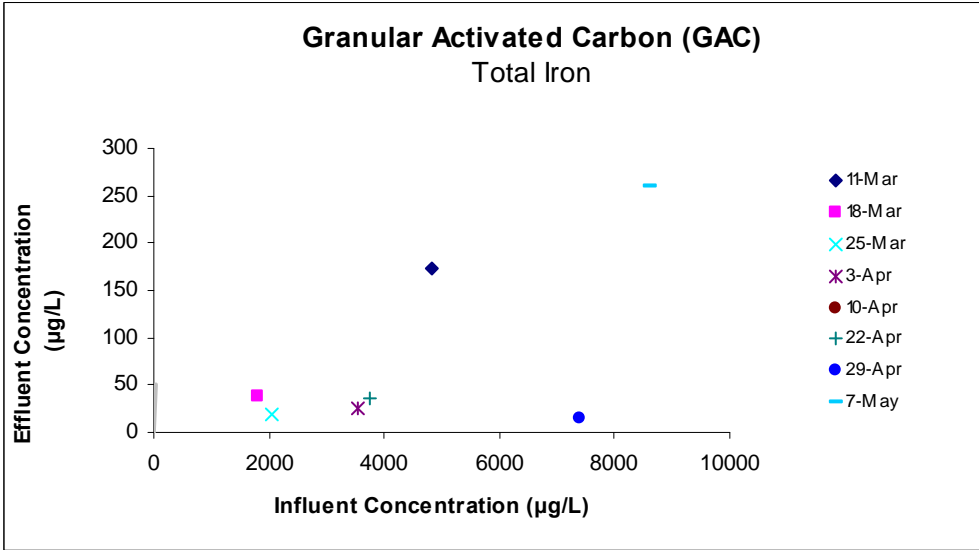
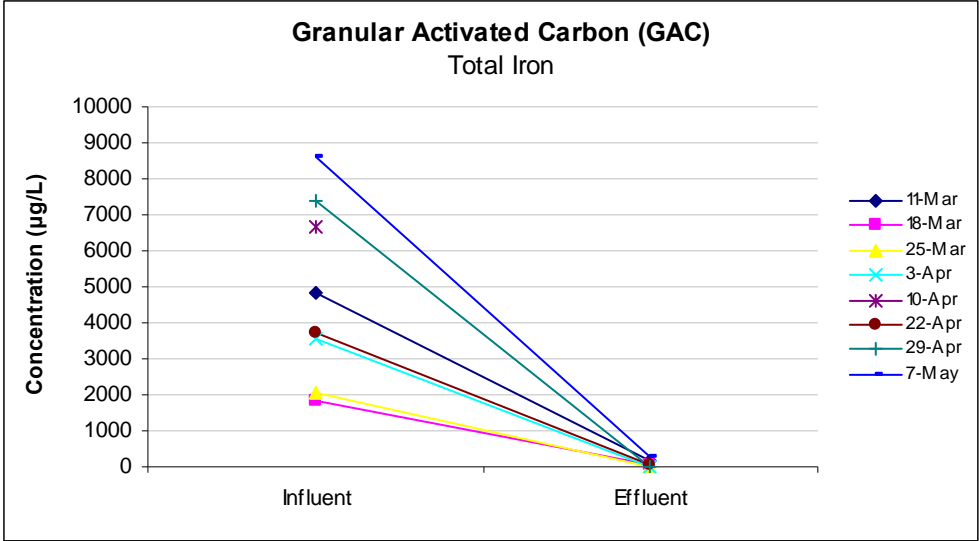
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-24.234	67.559	-0.359	0.734	-197.900	149.432	-197.900	149.432
X Variable 1	0.023	0.013	1.753	0.140	-0.011	0.057	-0.011	0.057

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	86.235	86.765
2	17.556	21.444
3	22.792	-3.792
4	57.464	-32.464
5	61.873	-25.873
6	145.499	-131.499
7	173.581	85.419







# Dissolved Fe

GAC

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.729
R Square	0.531
Adjusted R Square	0.375
Standard Error	9.027
Observations	5.000

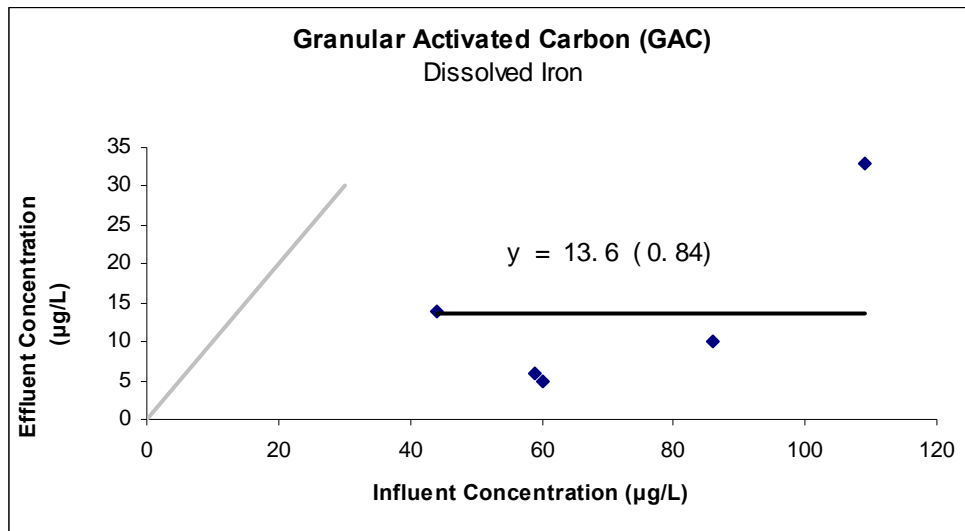
## ANOVA

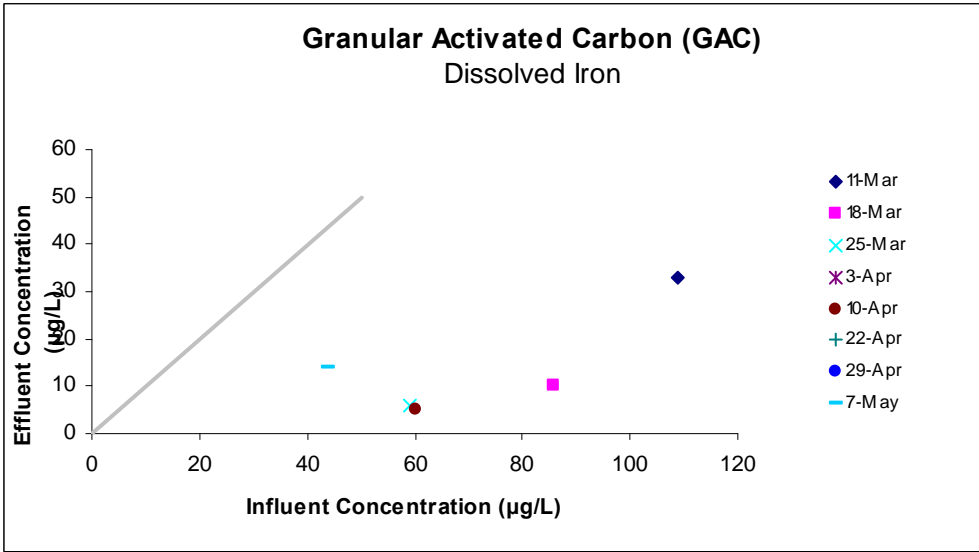
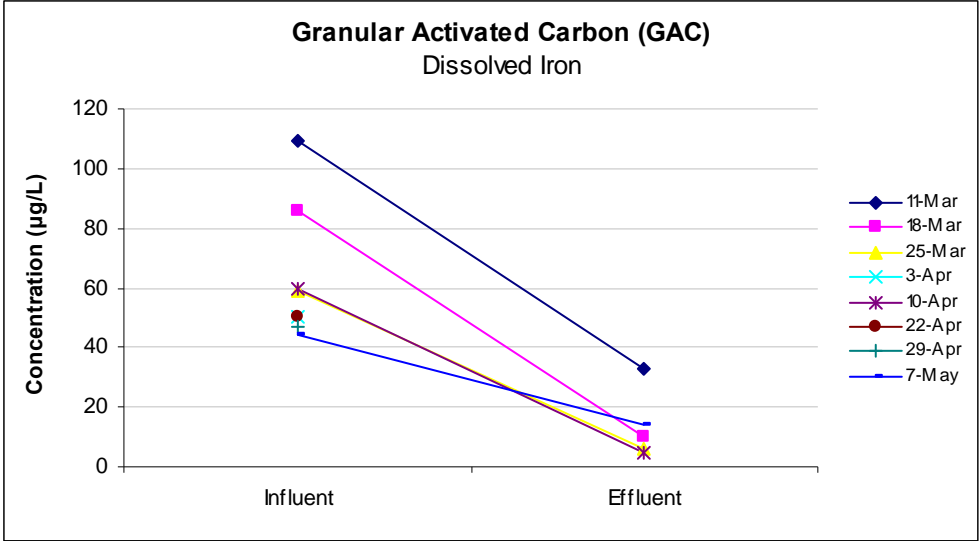
	df	SS	MS	F	Significance F
Regression	1.000	276.758	276.758	3.397	0.163
Residual	3.000	244.442	81.481		
Total	4.000	521.200			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-9.490	13.163	-0.721	0.523	-51.380	32.400	-51.380	32.400
X Variable 1	0.322	0.175	1.843	0.163	-0.234	0.879	-0.234	0.879

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	25.661	7.339
2	18.244	-8.244
3	9.537	-3.537
4	9.859	-4.859
5	4.699	9.301





# Total Mg

GAC

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.076
R Square	0.006
Adjusted R Square	-0.160
Standard Error	1779.300
Observations	8.000

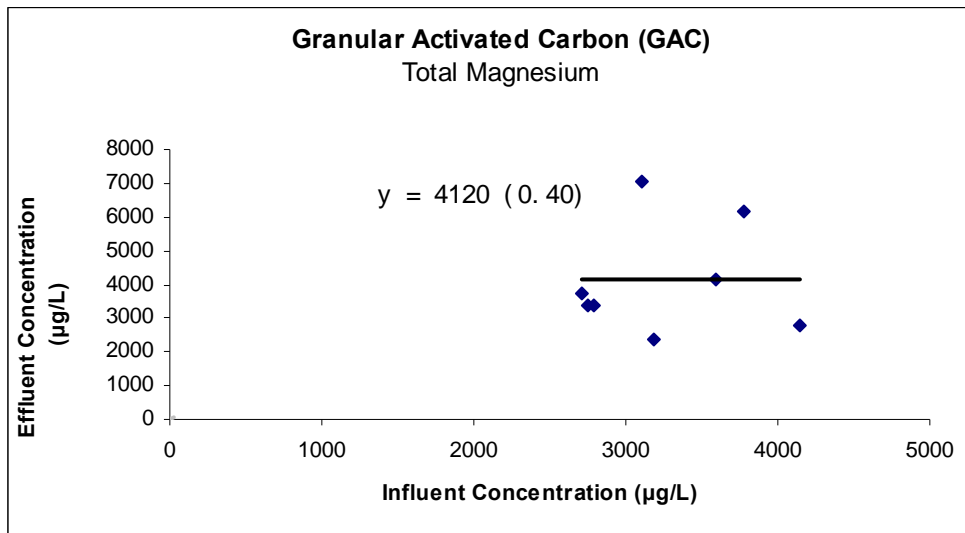
## ANOVA

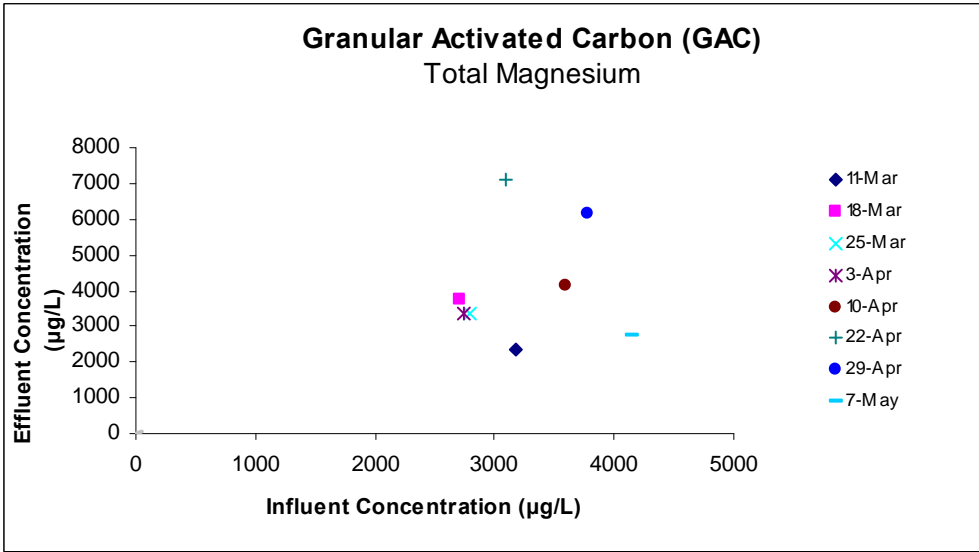
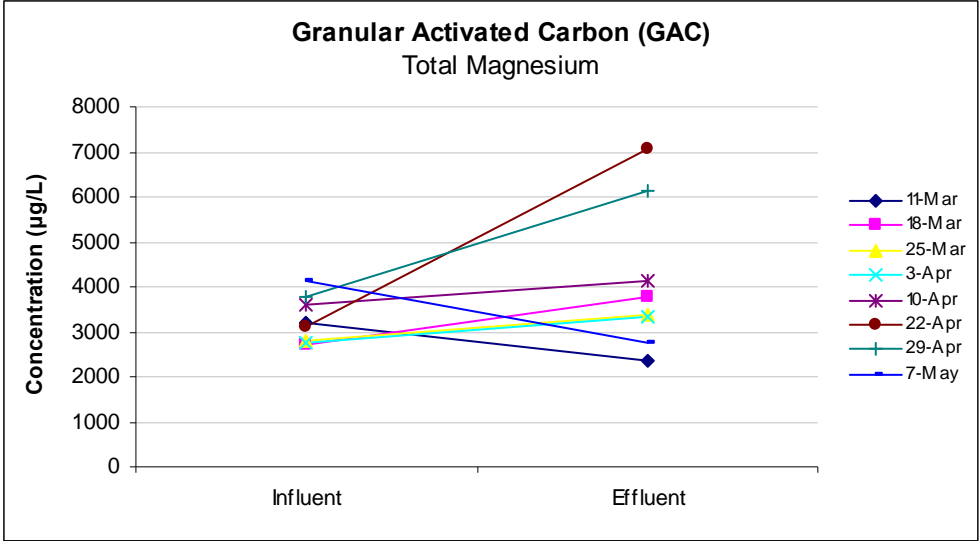
	df	SS	MS	F	Significance F
Regression	1.000	111066.038	111066.038	0.035	0.858
Residual	6.000	18995447.962	3165907.994		
Total	7.000	19106514.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	3348.834	4167.662	0.804	0.452	-6849.067	13546.736	-6849.067	13546.736
X Variable 1	0.237	1.267	0.187	0.858	-2.862	3.337	-2.862	3.337

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	4103.120	-1735.120
2	3990.653	-229.653
3	4010.584	-647.584
4	3999.907	-649.907
5	4200.638	-70.638
6	4084.138	2996.862
7	4244.059	1906.941
8	4330.900	-1570.900





# Dissolved Mg

GAC

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.464
R Square	0.215
Adjusted R Square	0.084
Standard Error	1264.025
Observations	8.000

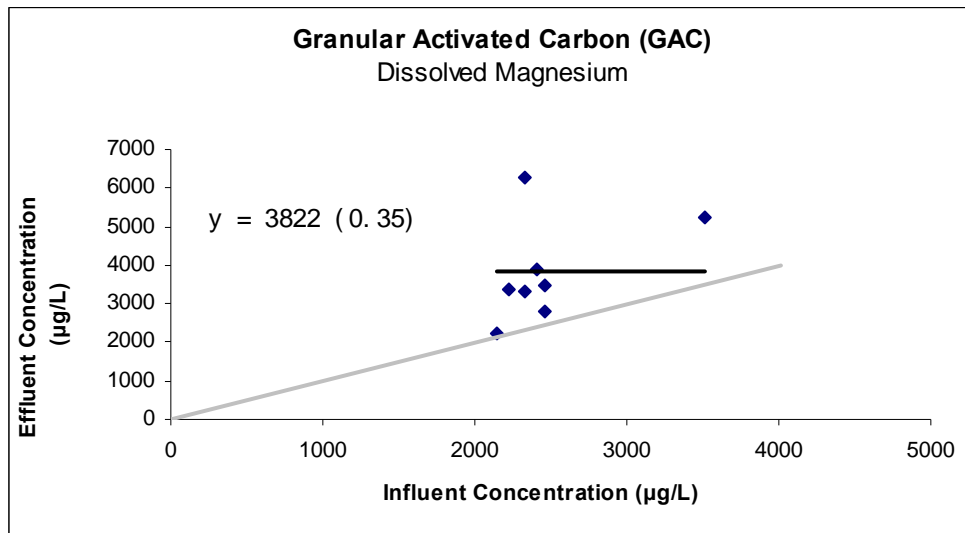
## ANOVA

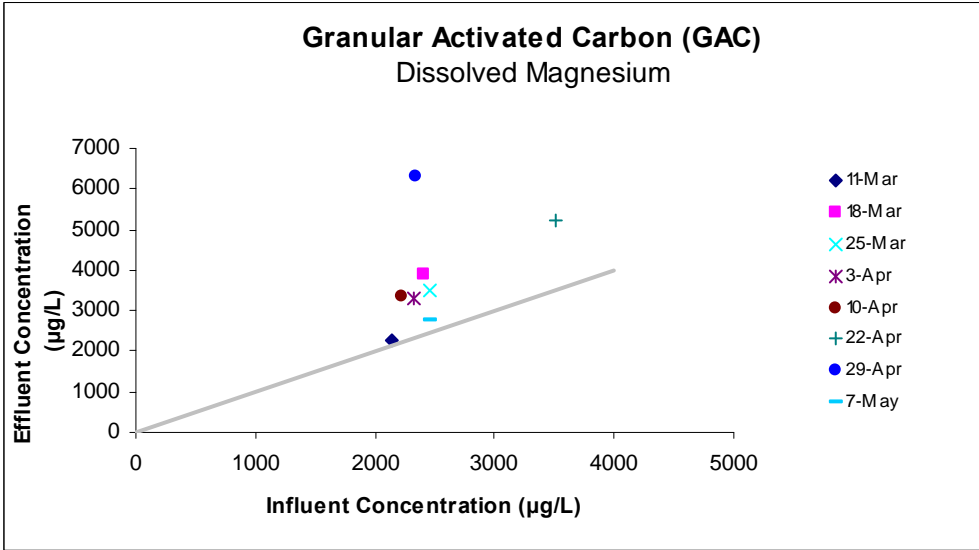
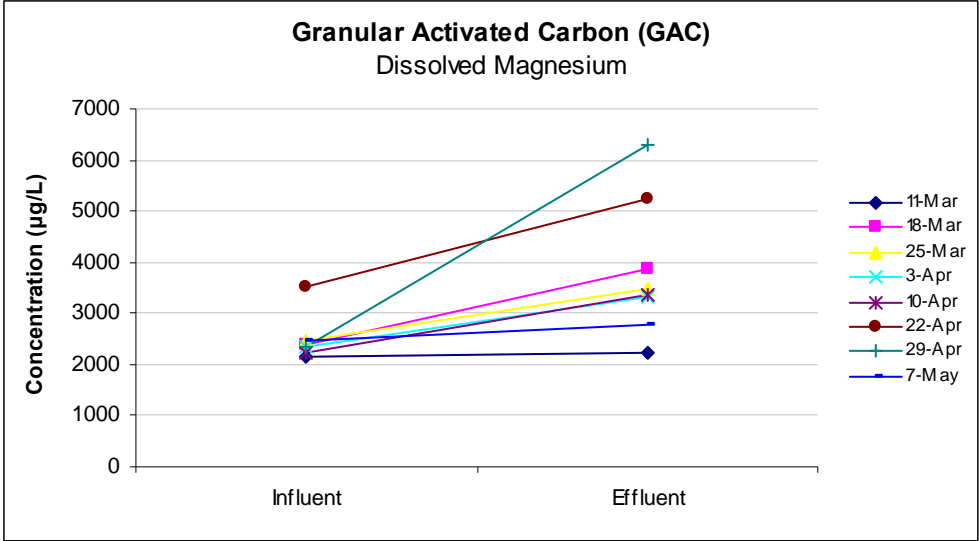
	df	SS	MS	F	Significance F
Regression	1.000	2623163.032	2623163.032	1.642	0.247
Residual	6.000	9586560.468	1597760.078		
Total	7.000	12209723.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	303.425	2782.764	0.109	0.917	-6505.753	7112.604	-6505.753	7112.604
X Variable 1	1.417	1.106	1.281	0.247	-1.289	4.123	-1.289	4.123

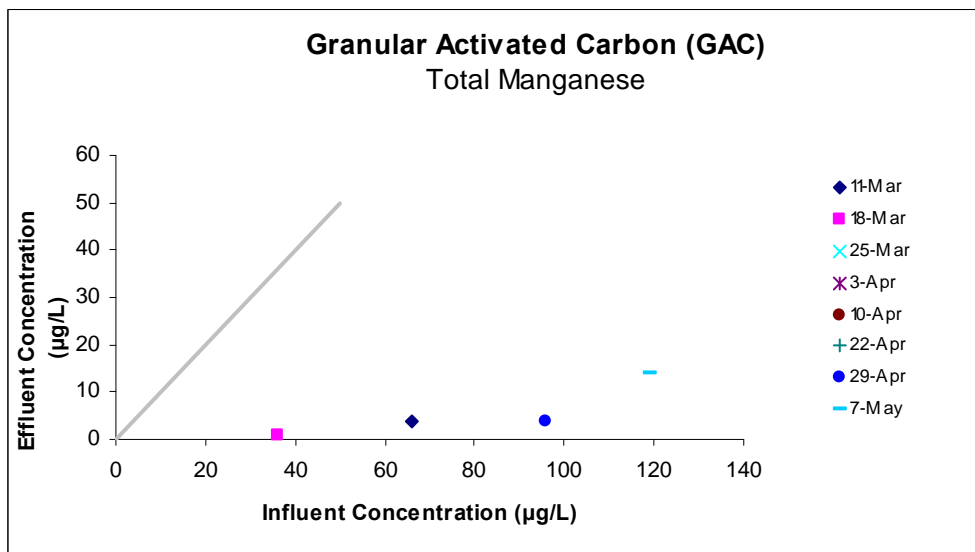
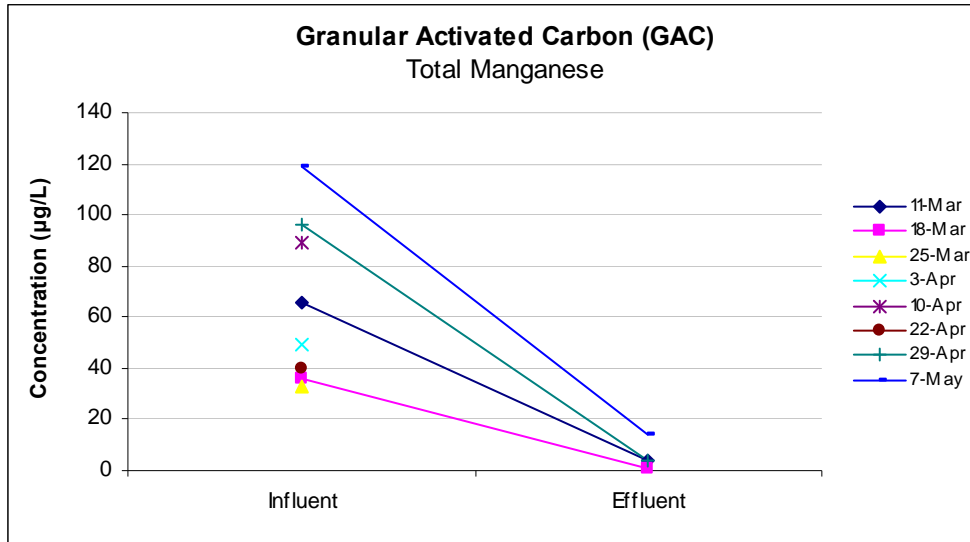
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	3341.650	-1094.650
2	3710.092	170.908
3	3793.700	-315.700
4	3600.977	-282.977
5	3450.766	-82.766
6	5287.305	-58.305
7	3612.313	2673.687
8	3785.197	-1010.197



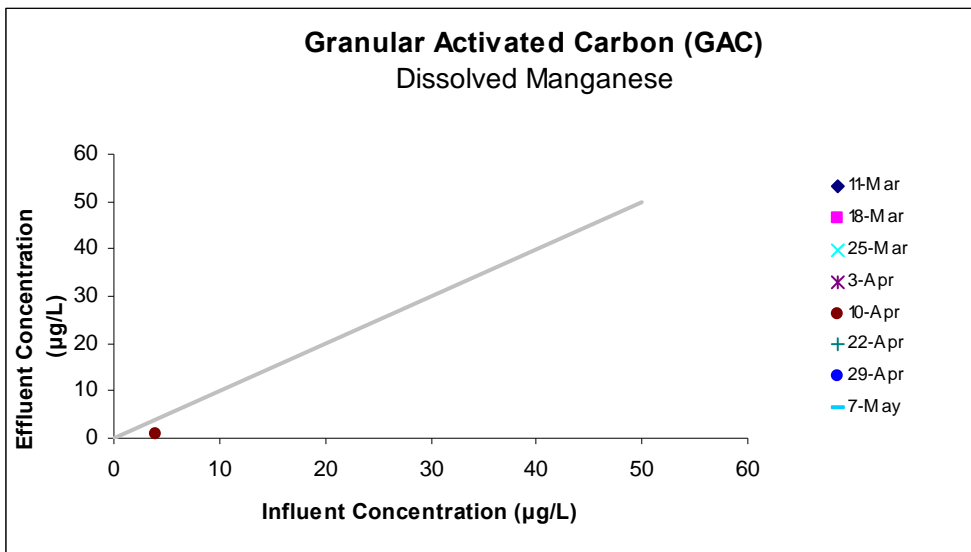
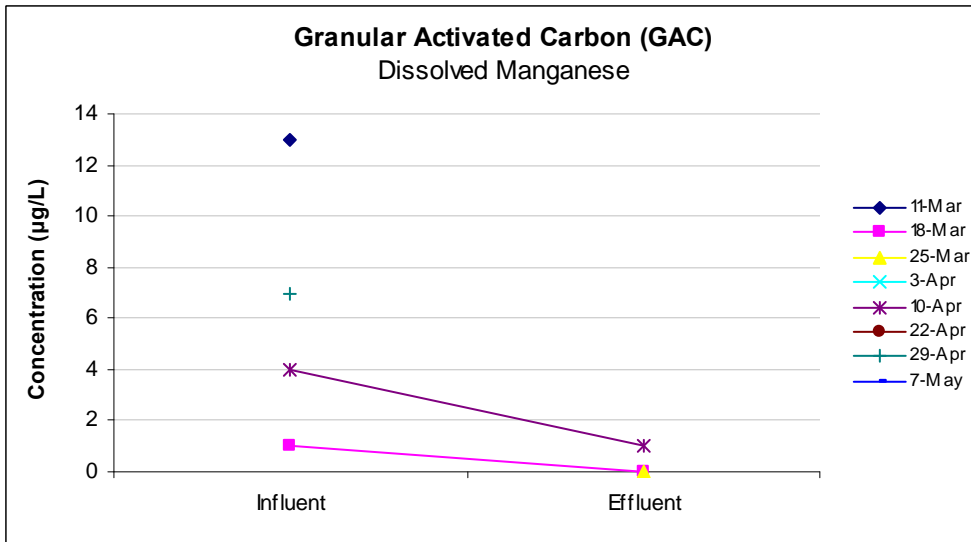


Total Mn

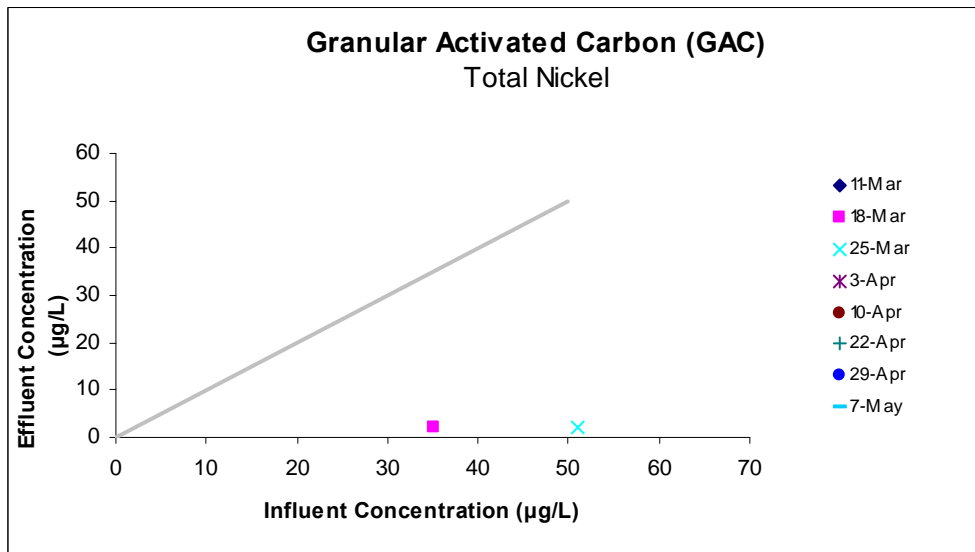
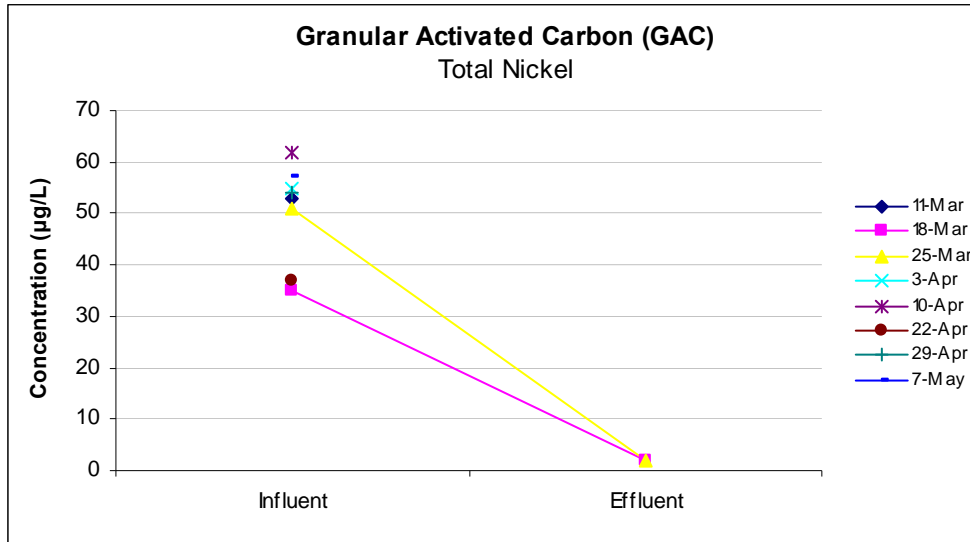




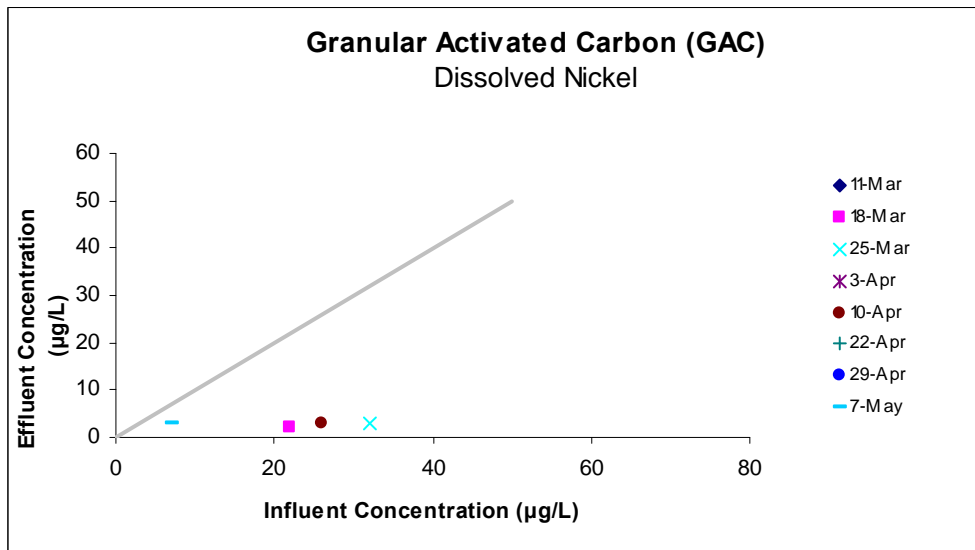
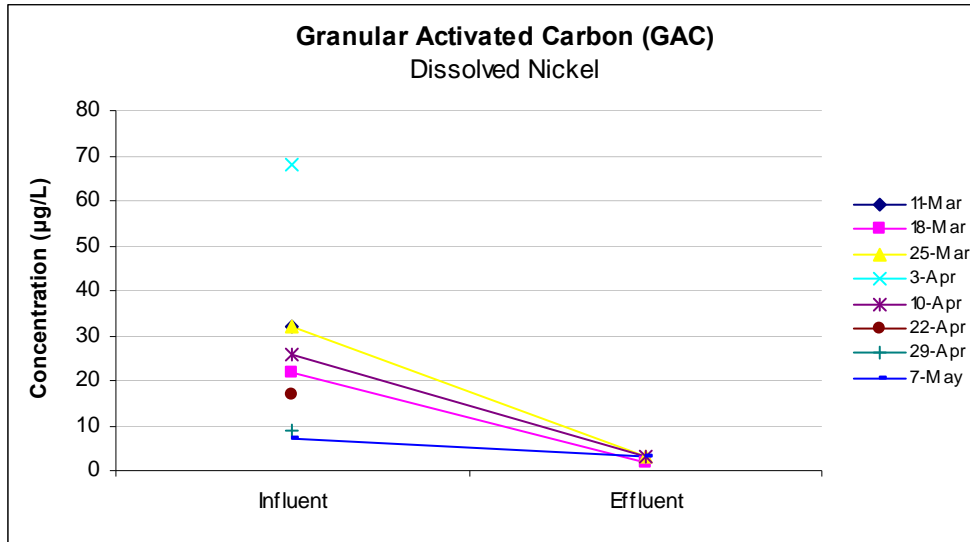
Dissolved Mn



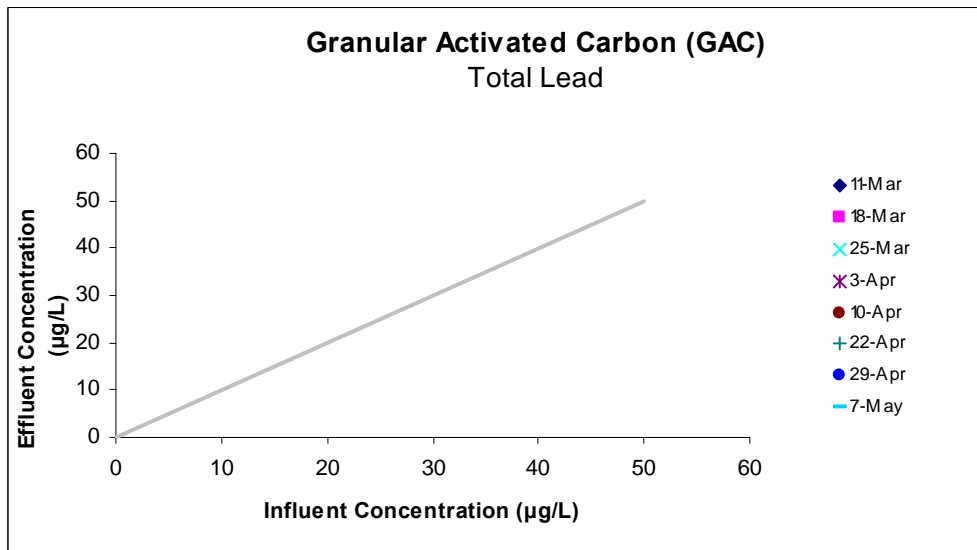
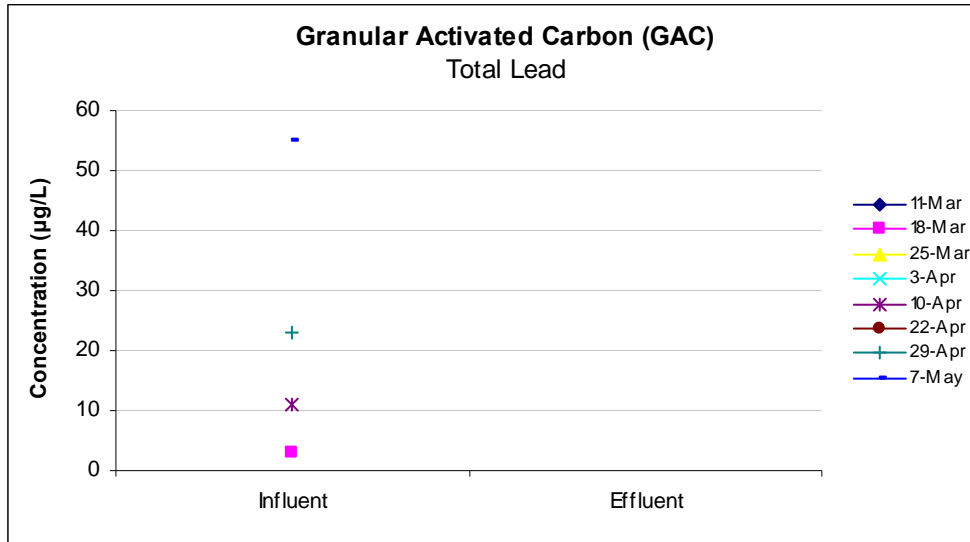
Total Ni



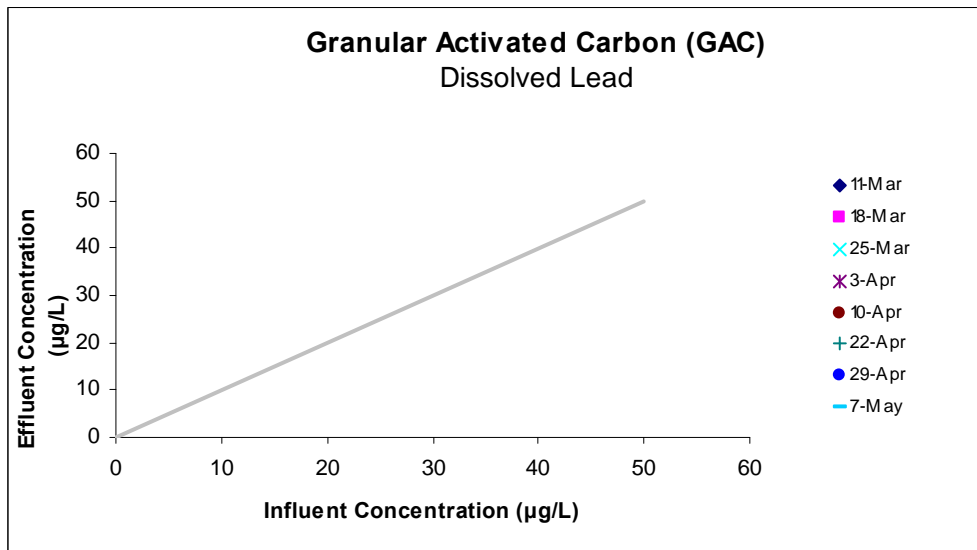
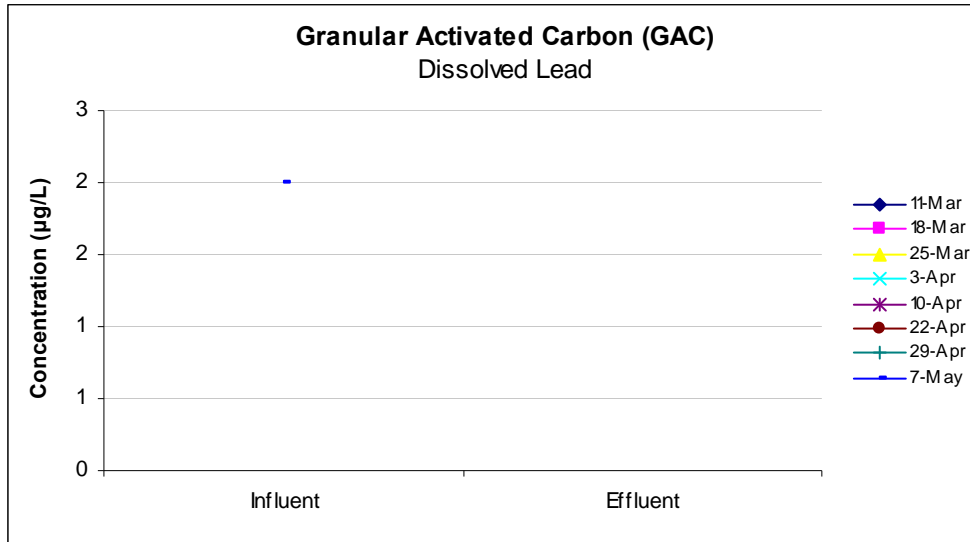
Dissolved Ni



Total Pb



# Dissolved Pb



# Total Zinc

GAC

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.175
R Square	0.031
Adjusted R Square	-0.131
Standard Error	20.195
Observations	8.000

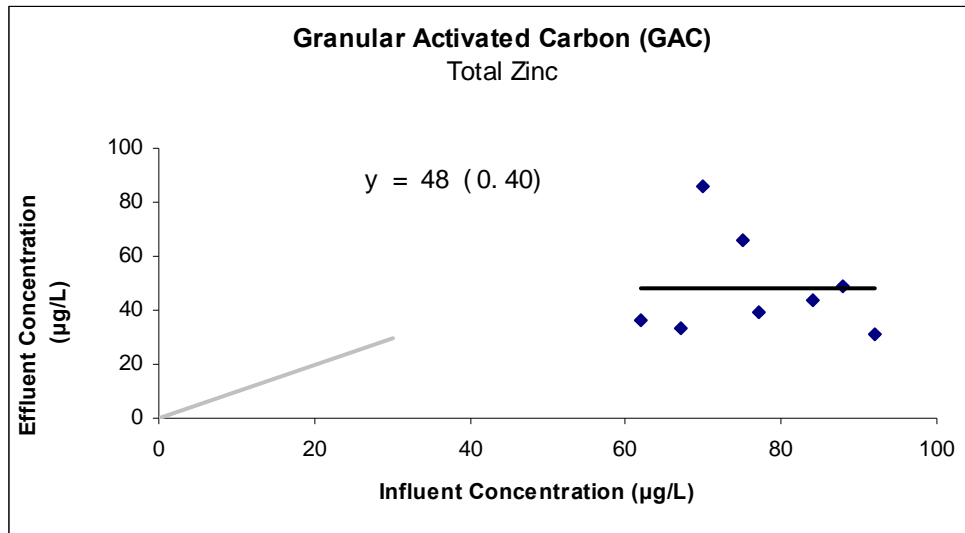
## ANOVA

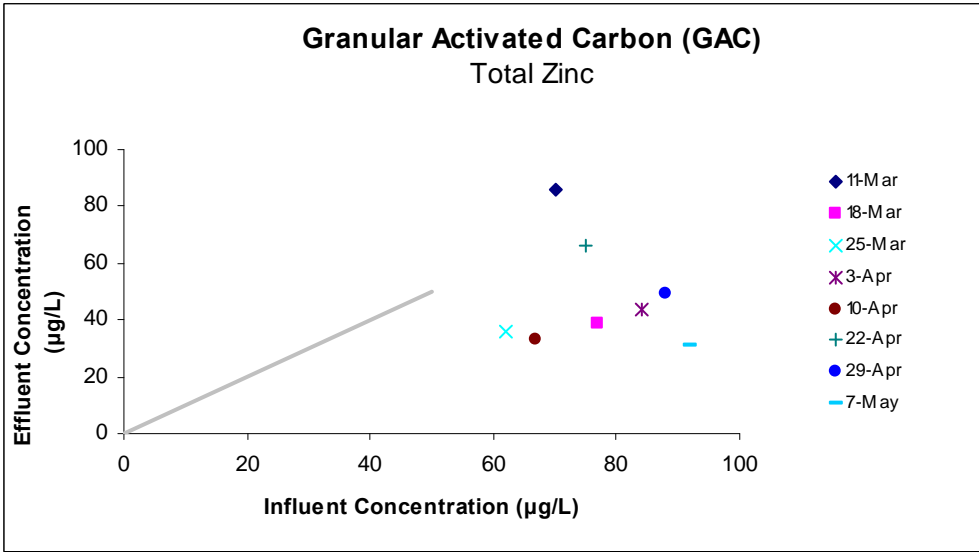
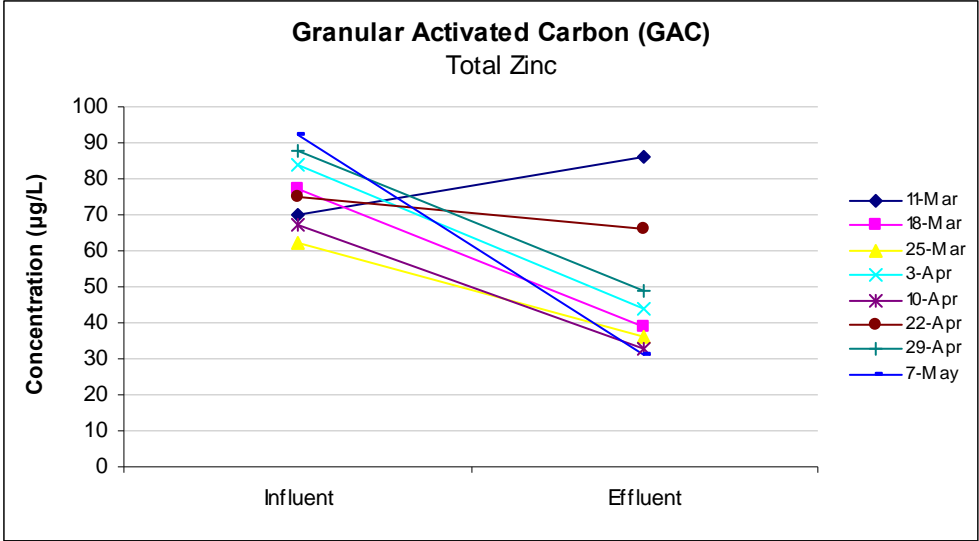
	df	SS	MS	F	Significance F
Regression	1.000	77.032	77.032	0.189	0.679
Residual	6.000	2446.968	407.828		
Total	7.000	2524.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	72.270	56.298	1.284	0.247	-65.486	210.025	-65.486	210.025
X Variable 1	-0.316	0.726	-0.435	0.679	-2.093	1.462	-2.093	1.462

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	50.170	35.830
2	47.961	-8.961
3	52.696	-16.696
4	45.751	-1.751
5	51.118	-18.118
6	48.592	17.408
7	44.488	4.512
8	43.225	-12.225





# Dissolved Zn

GAC

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.751
R Square	0.564
Adjusted R Square	0.491
Standard Error	5.564
Observations	8.000

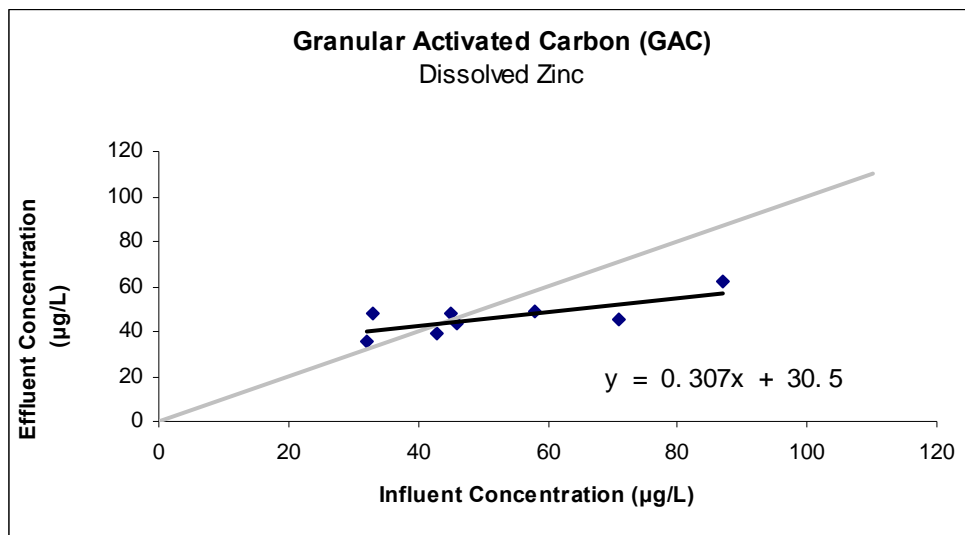
## ANOVA

	df	SS	MS	F	Significance F
Regression	1.000	240.149	240.149	7.758	0.032
Residual	6.000	185.726	30.954		
Total	7.000	425.875			

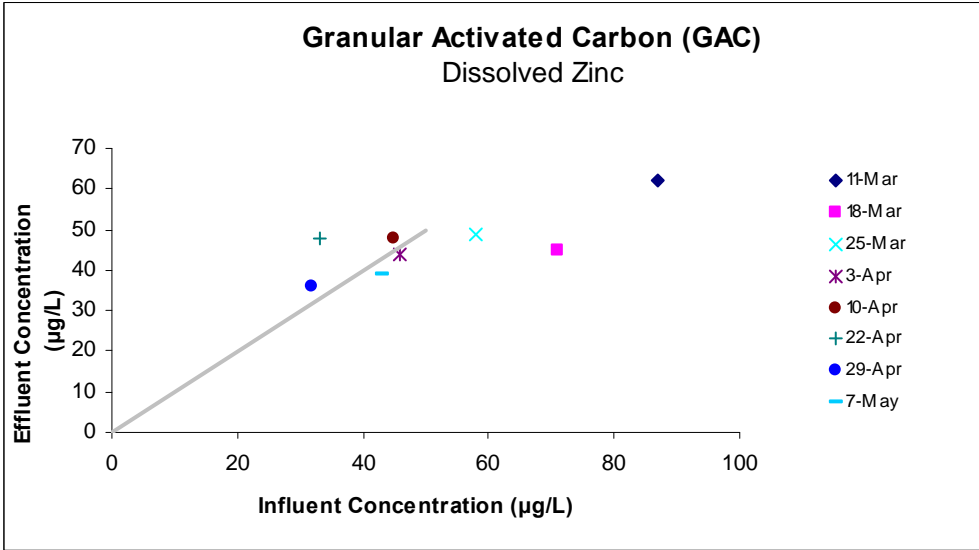
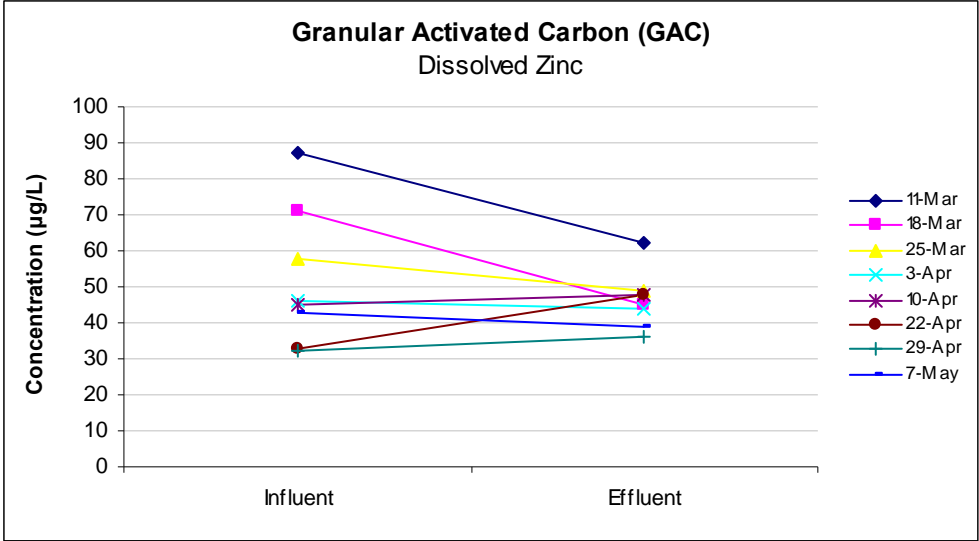
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	30.452	6.046	5.037	0.002	15.659	45.245	15.659	45.245
X Variable 1	0.307	0.110	2.785	0.032	0.037	0.577	0.037	0.577

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	57.157	4.843
2	52.245	-7.245
3	48.255	0.745
4	44.572	-0.572
5	44.265	3.735
6	40.581	7.419
7	40.274	-4.274
8	43.651	-4.651







# Total K

GAC

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.236
R Square	0.056
Adjusted R Square	-0.102
Standard Error	18564.368
Observations	8.000

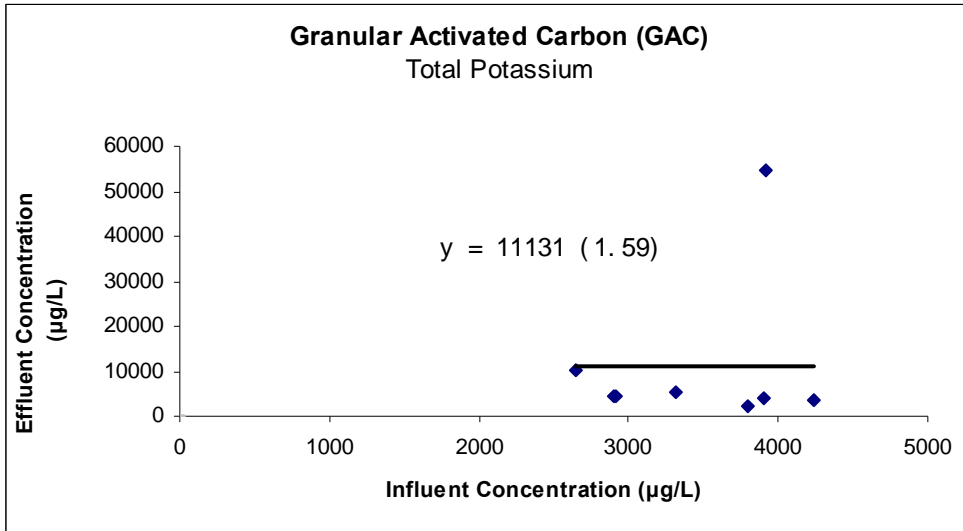
## ANOVA

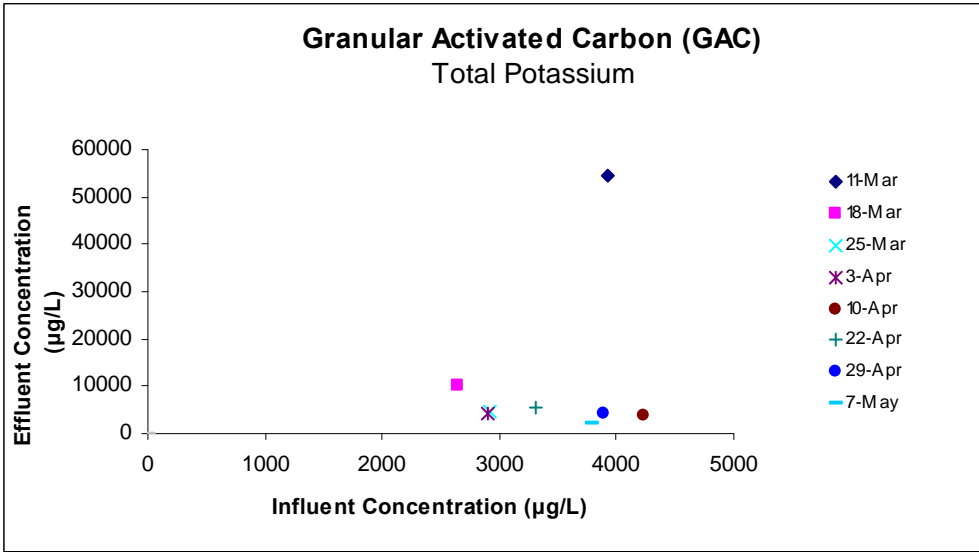
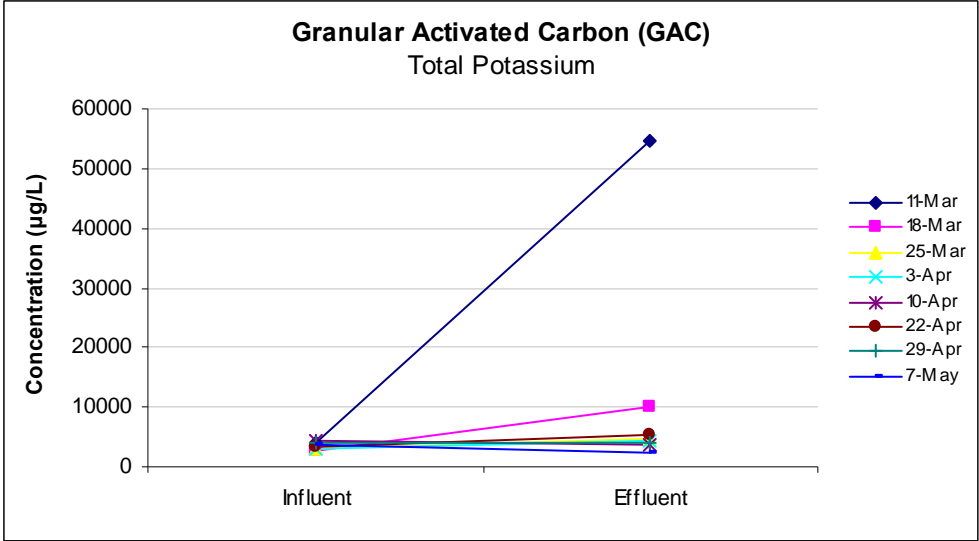
	df	SS	MS	F	Significance F
Regression	1.000	122028024.577	122028024.577	0.354	0.574
Residual	6.000	2067814552.298	344635758.716		
Total	7.000	2189842576.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-13480.751	41878.919	-0.322	0.758	-115954.775	88993.272	-115954.775	88993.272
X Variable 1	7.126	11.976	0.595	0.574	-22.178	36.431	-22.178	36.431

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	14447.568	40074.432
2	5411.307	4804.693
3	7299.800	-2691.800
4	7192.904	-2931.904
5	16728.013	-12975.013
6	10136.103	-4787.103
7	14297.914	-10163.914
8	13535.391	-11329.391





# Dissolved K

GAC

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.490
R Square	0.240
Adjusted R Square	0.113
Standard Error	15610.869
Observations	8.000

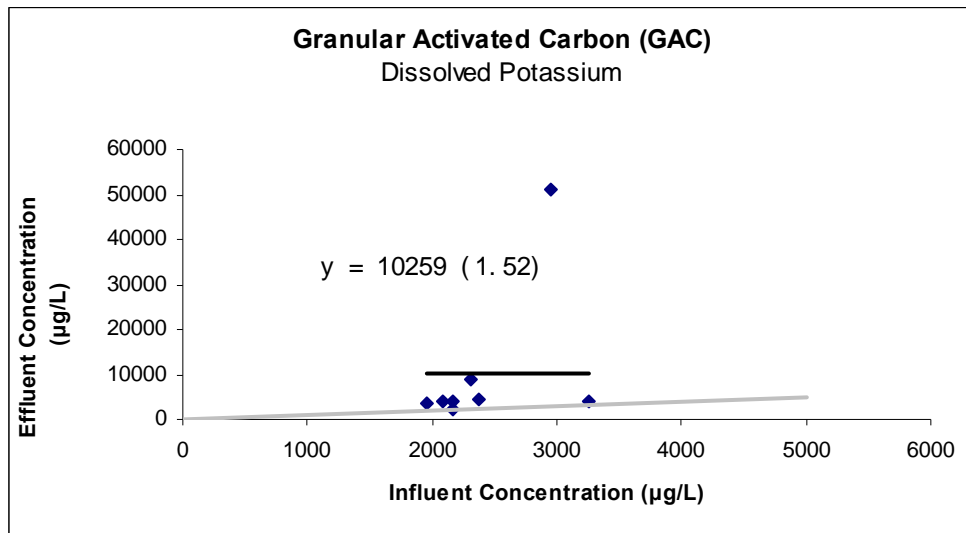
## ANOVA

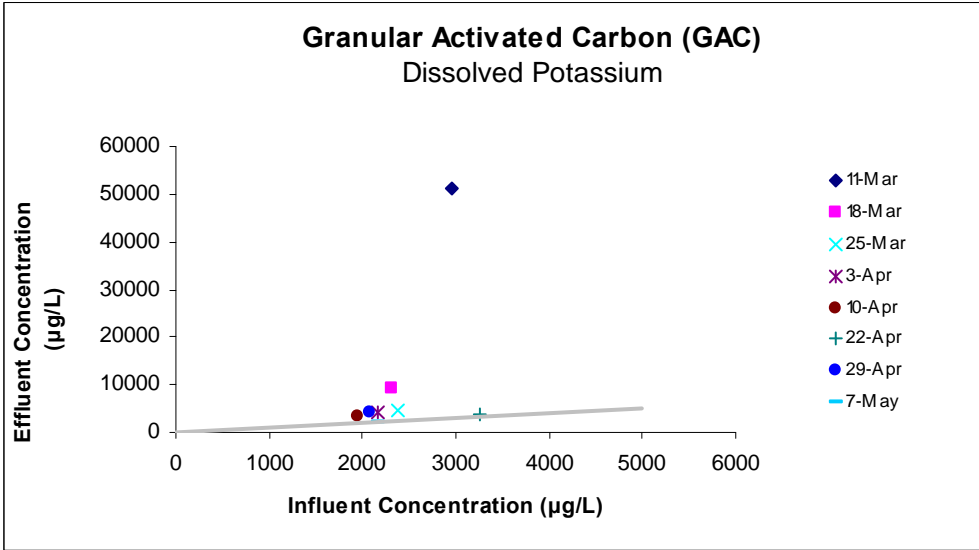
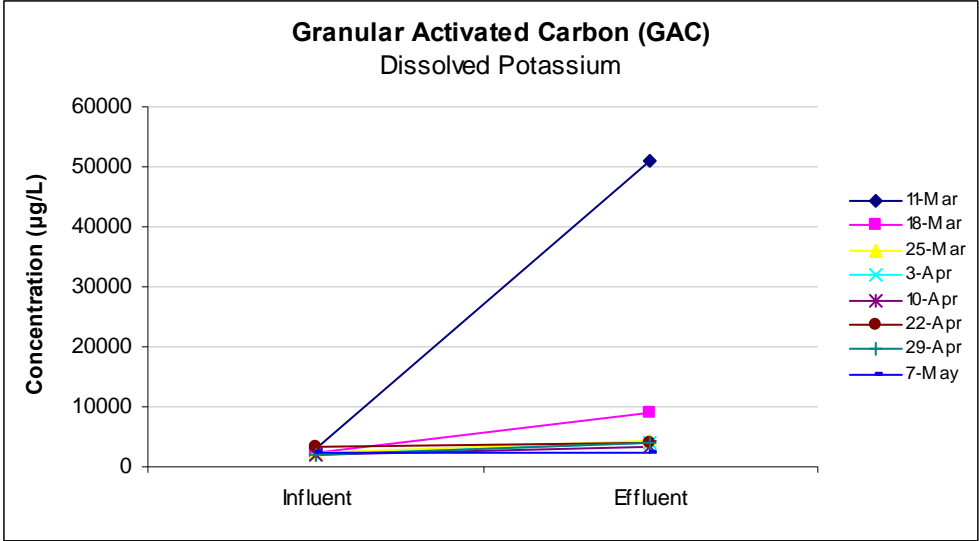
	df	SS	MS	F	Significance F
Regression	1.000	461165397.657	461165397.657	1.892	0.218
Residual	6.000	1462195323.218	243699220.536		
Total	7.000	1923360720.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-32617.084	31653.344	-1.030	0.343	-110070.025	44835.858	-110070.025	44835.858
X Variable 1	17.814	12.950	1.376	0.218	-13.873	49.501	-13.873	49.501

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	20041.269	30939.731
2	8426.504	645.496
3	9566.604	-5093.604
4	5896.908	-1902.908
5	2298.468	1083.532
6	25349.858	-21421.858
7	4453.969	-415.969
8	6039.420	-3834.420





# Total Na

GAC

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.208
R Square	0.043
Adjusted R Square	-0.116
Standard Error	6132.748
Observations	8.000

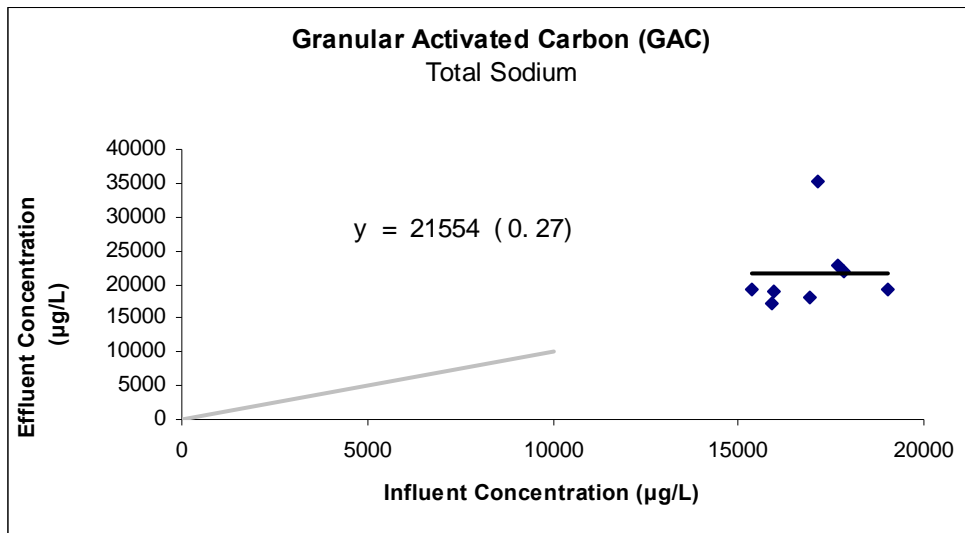
## ANOVA

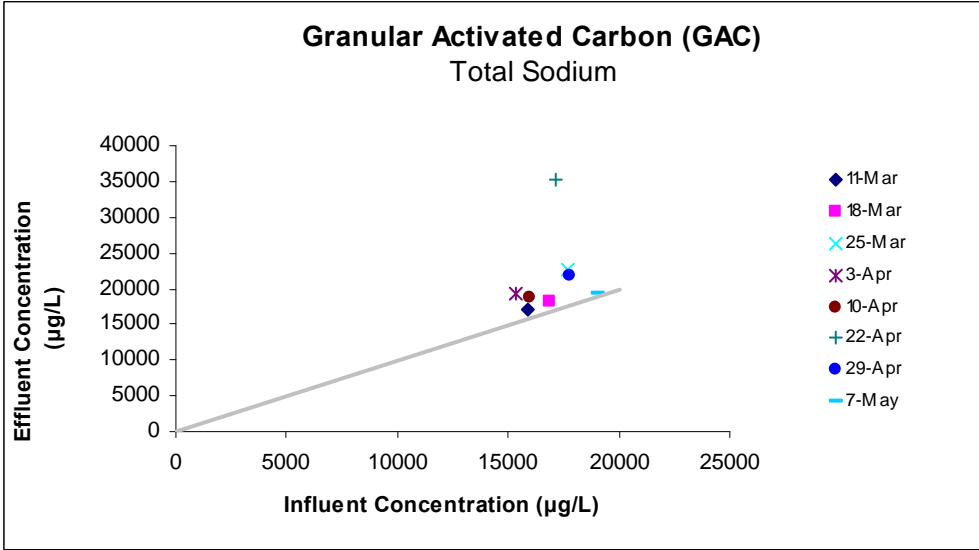
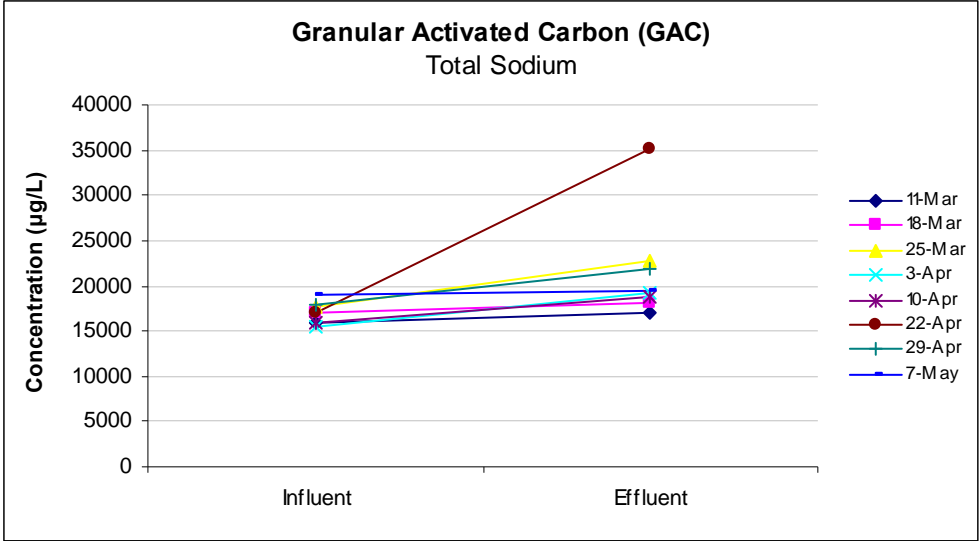
	df	SS	MS	F	Significance F
Regression	1.000	10186485.817	10186485.817	0.271	0.621
Residual	6.000	225663577.058	37610596.176		
Total	7.000	235850062.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	4756.367	32349.825	0.147	0.888	-74400.804	83913.538	-74400.804	83913.538
X Variable 1	0.990	1.902	0.520	0.621	-3.664	5.644	-3.664	5.644

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	20472.682	-3353.682
2	21494.237	-3327.237
3	22261.394	460.606
4	19965.864	-801.864
5	20534.054	-1703.054
6	21699.142	13470.858
7	22397.997	-519.997
8	23607.630	-4225.630





# Dissolved Na

GAC

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.860
R Square	0.739
Adjusted R Square	0.696
Standard Error	1715.270
Observations	8.000

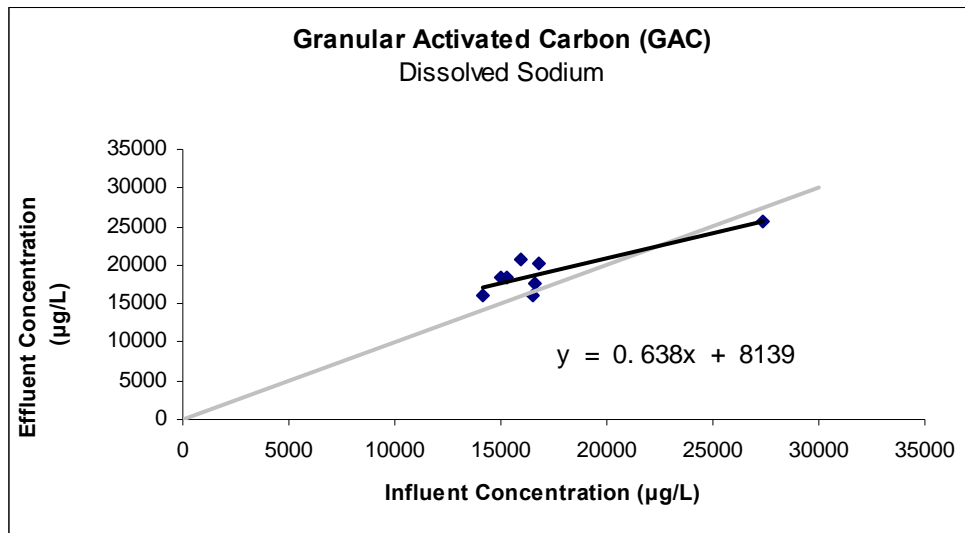
## ANOVA

	df	SS	MS	F	Significance F
Regression	1.000	49997883.915	49997883.915	16.994	0.006
Residual	6.000	17652912.960	2942152.160		
Total	7.000	67650796.875			

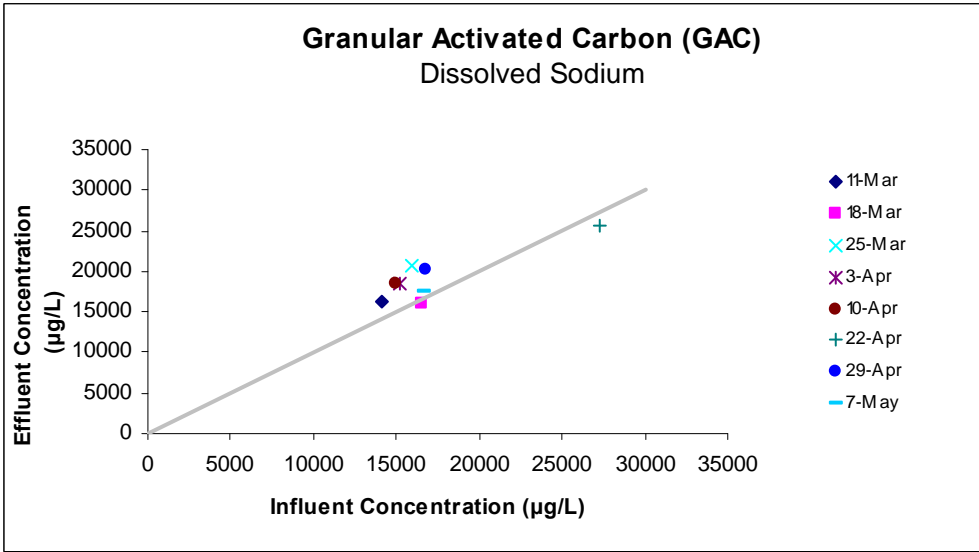
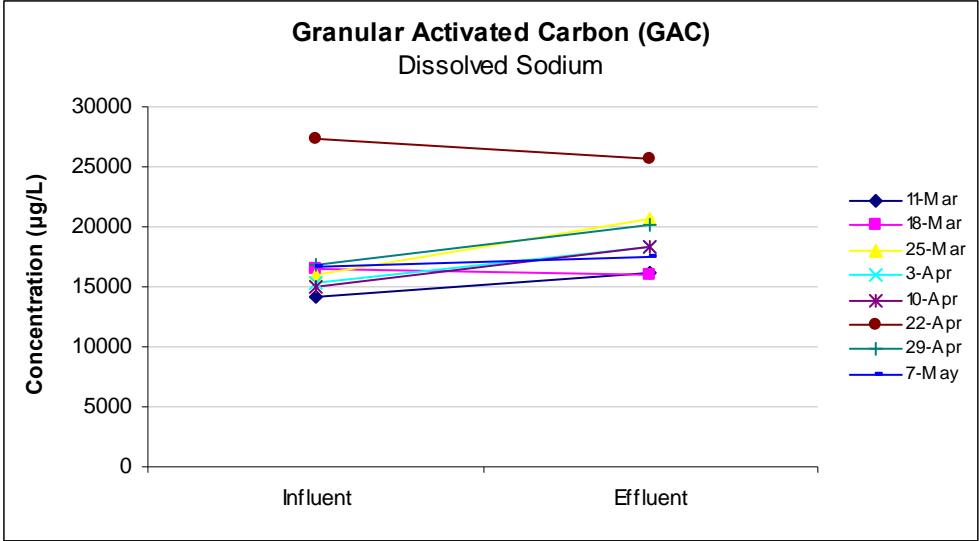
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	8139.565	2732.074	2.979	0.025	1454.422	14824.708	1454.422	14824.708
X Variable 1	0.638	0.155	4.122	0.006	0.259	1.017	0.259	1.017

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	17180.651	-1033.651
2	18686.329	-2672.329
3	18318.841	2428.159
4	17879.898	498.102
5	17711.466	682.534
6	25576.081	33.919
7	18875.814	1221.186
8	18739.921	-1157.921







# Total Cr

GAC

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.450
R Square	0.202
Adjusted R Square	-0.064
Standard Error	1.845
Observations	5.000

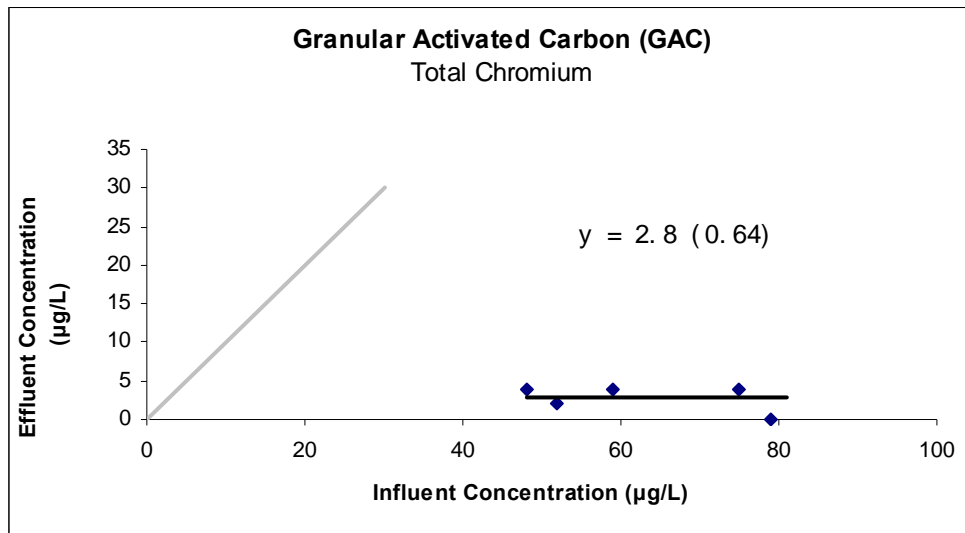
## ANOVA

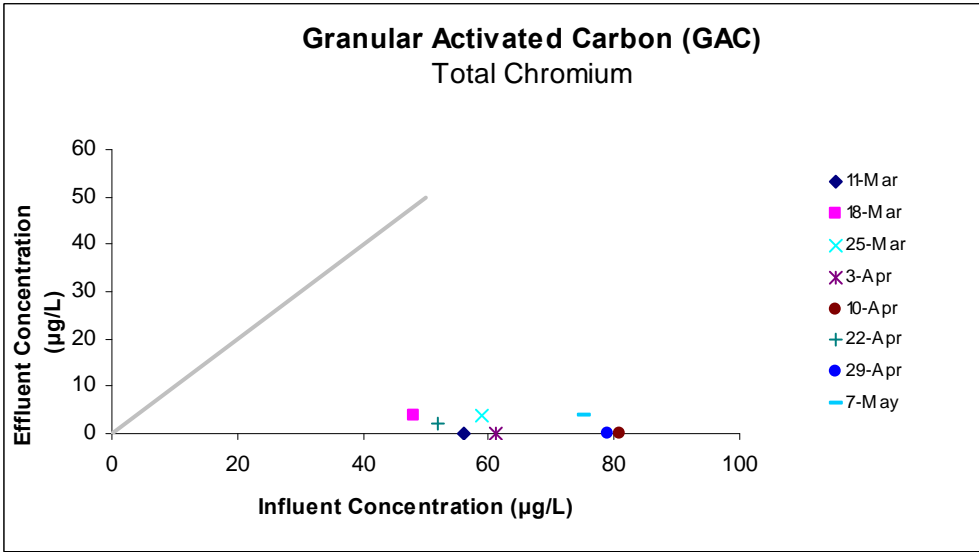
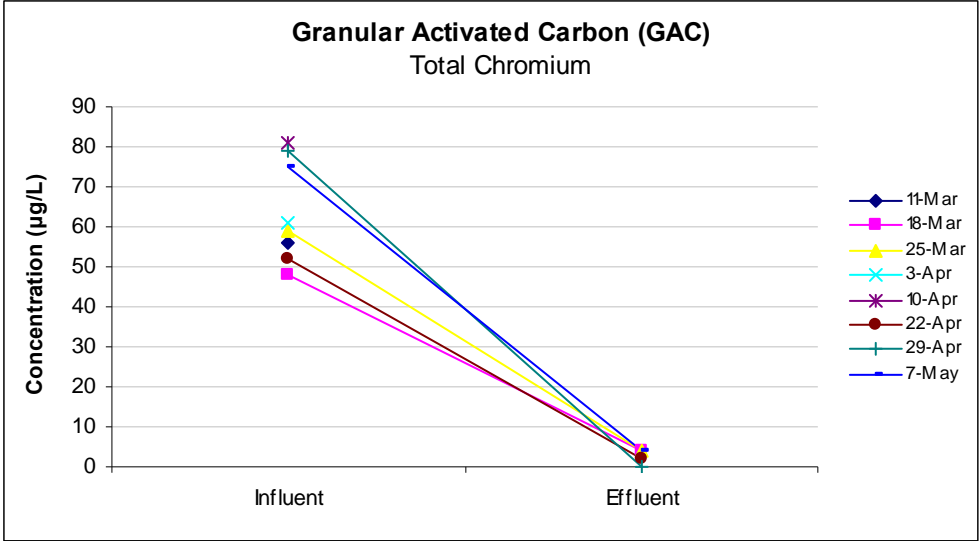
	df	SS	MS	F	Significance F
Regression	1.000	2.590	2.590	0.761	0.447
Residual	3.000	10.210	3.403		
Total	4.000	12.800			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	6.451	4.266	1.512	0.228	-7.126	20.029	-7.126	20.029
X Variable 1	-0.058	0.067	-0.872	0.447	-0.271	0.154	-0.271	0.154

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	3.652	0.348
2	3.010	0.990
3	3.418	-1.418
4	1.843	-1.843
5	2.077	1.923





# Dissolved Cr

GAC

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.651
R Square	0.424
Adjusted R Square	0.136
Standard Error	0.537
Observations	4.000

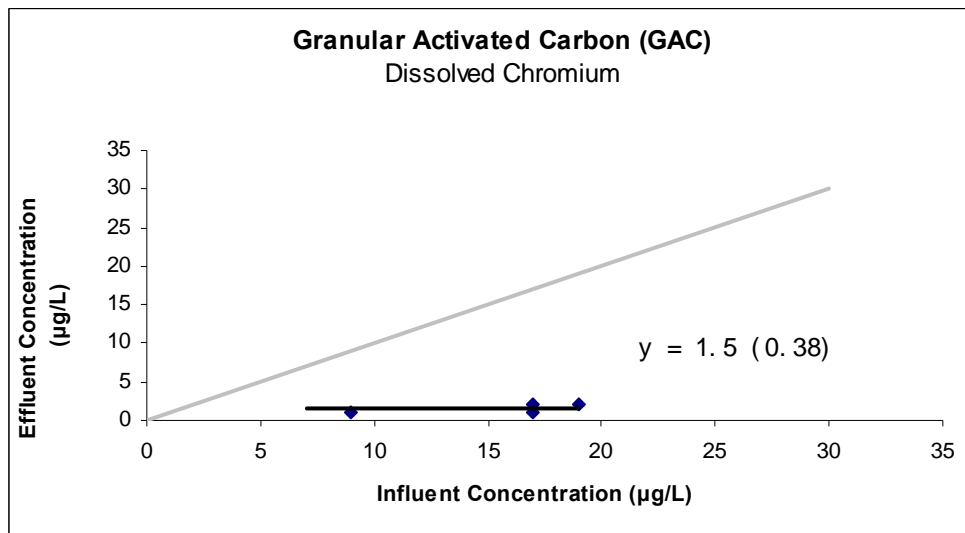
## ANOVA

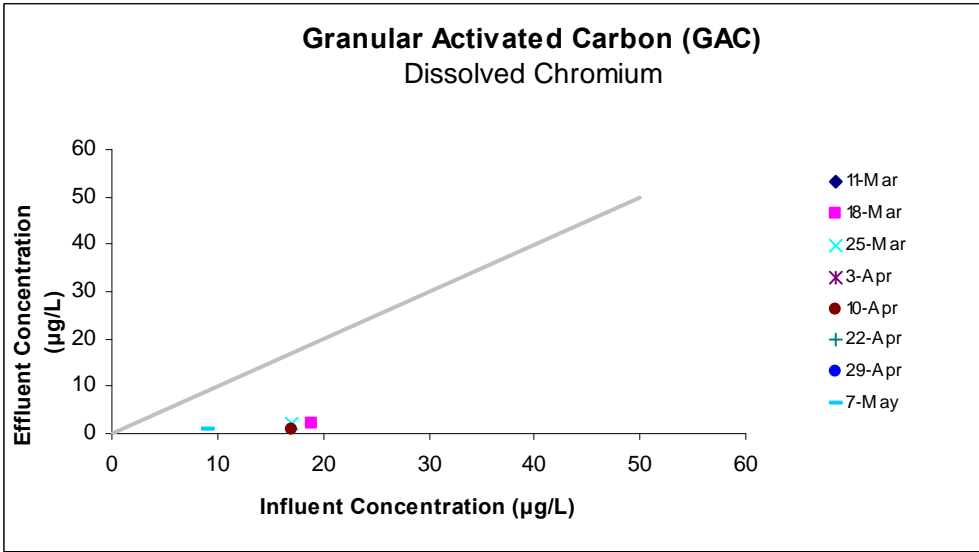
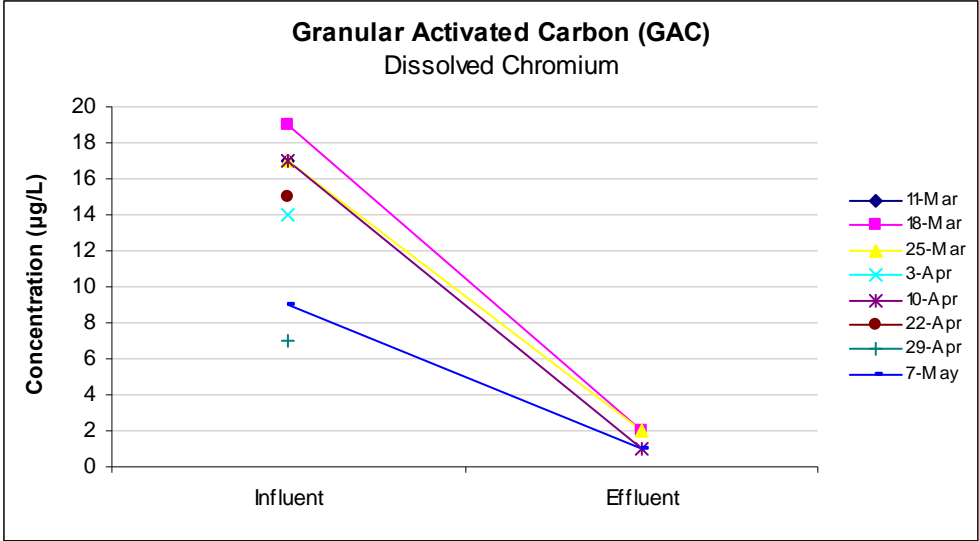
	df	SS	MS	F	Significance F
Regression	1.000	0.424	0.424	1.471	0.349
Residual	2.000	0.576	0.288		
Total	3.000	1.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.186	1.116	0.167	0.883	-4.615	4.988	-4.615	4.988
X Variable 1	0.085	0.070	1.213	0.349	-0.216	0.385	-0.216	0.385

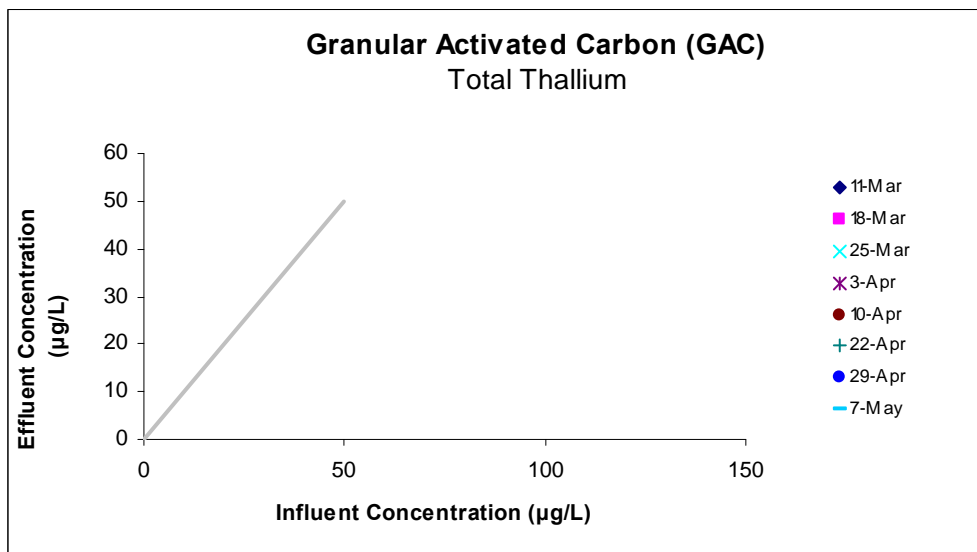
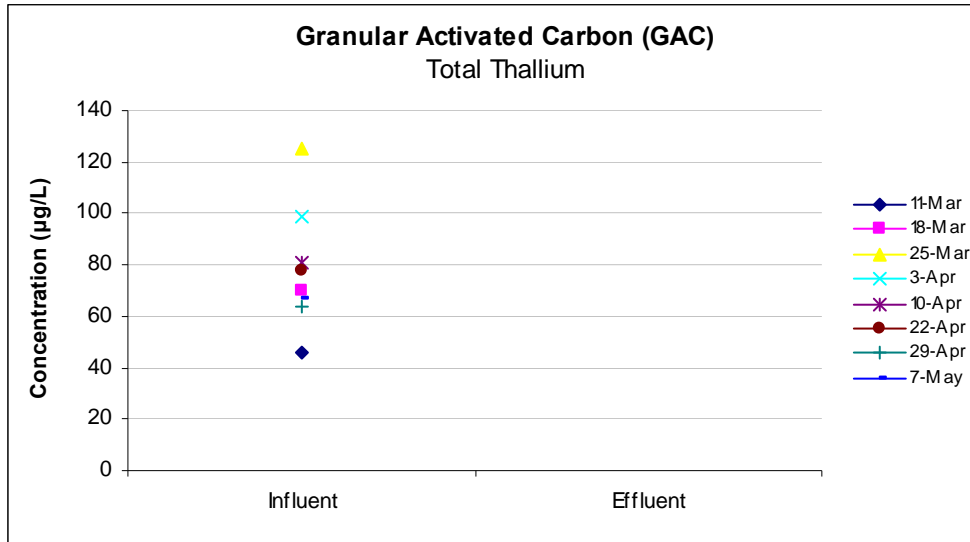
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	1.797	0.203
2	1.627	0.373
3	1.627	-0.627
4	0.949	0.051

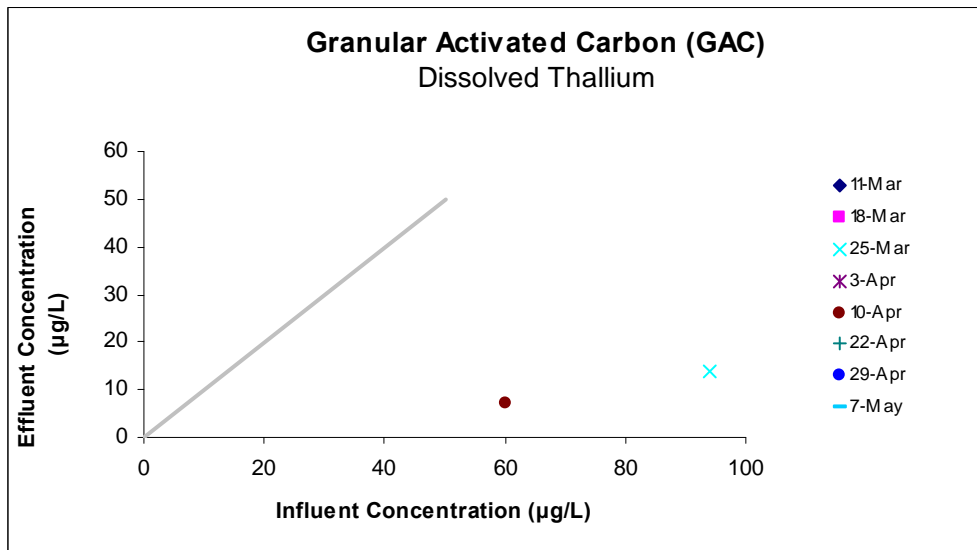
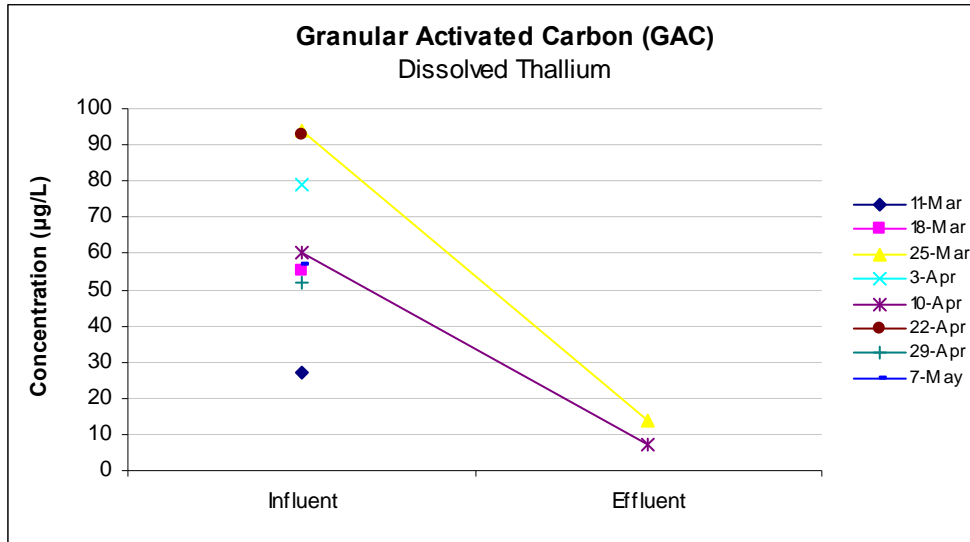




Total Tl



Dissolved Tl



# Total Sb

GAC

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.091
R Square	0.008
Adjusted R Square	-0.157
Standard Error	12.115
Observations	8.000

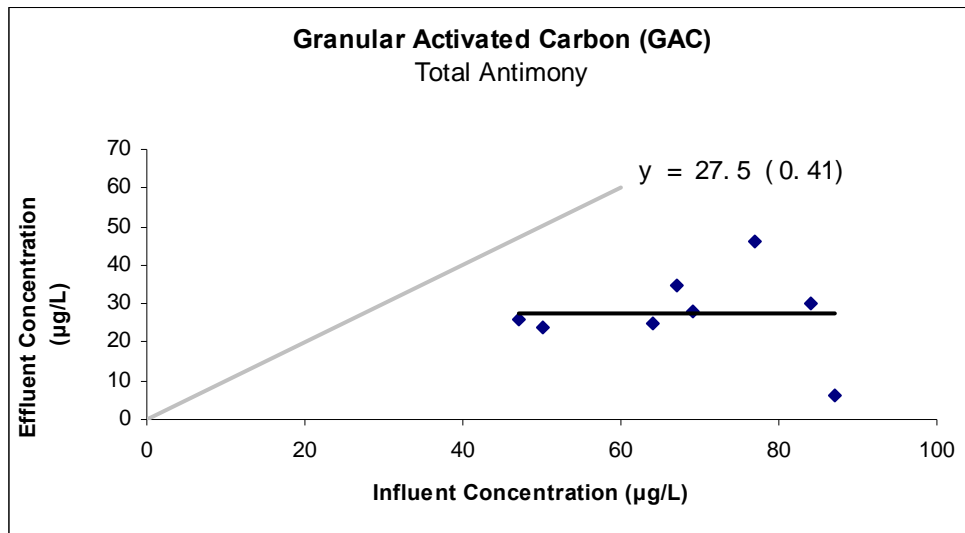
## ANOVA

	df	SS	MS	F	Significance F
Regression	1.000	7.374	7.374	0.050	0.830
Residual	6.000	880.626	146.771		
Total	7.000	888.000			

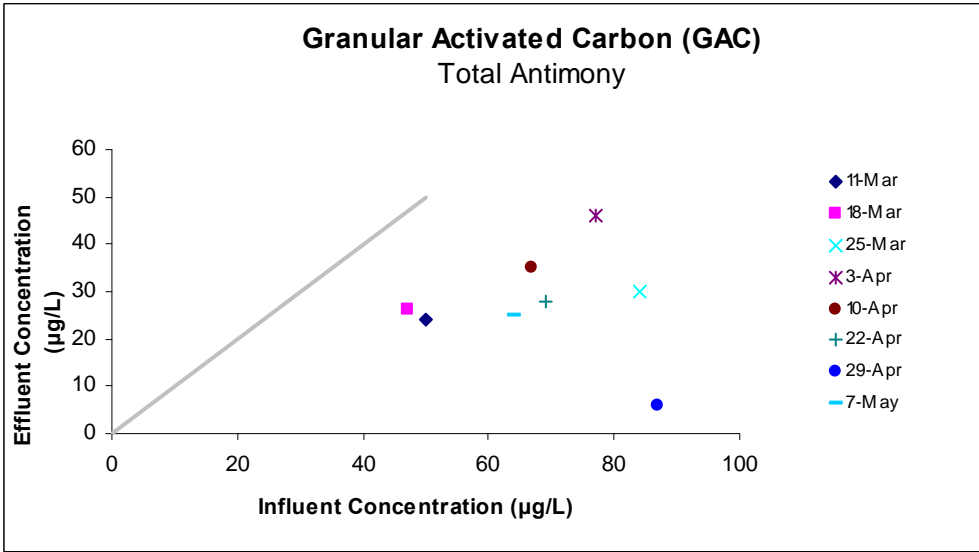
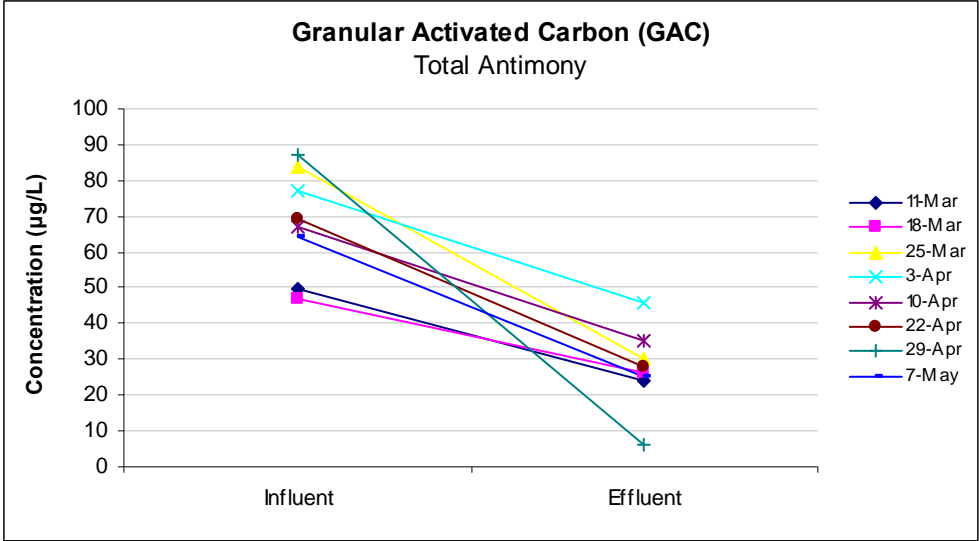
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	32.307	21.871	1.477	0.190	-21.208	85.823	-21.208	85.823
X Variable 1	-0.071	0.315	-0.224	0.830	-0.841	0.700	-0.841	0.700

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	28.779	-4.779
2	28.991	-2.991
3	26.380	3.620
4	26.874	19.126
5	27.579	7.421
6	27.438	0.562
7	26.168	-20.168
8	27.791	-2.791







# Dissolved Sb

GAC

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.043
R Square	0.002
Adjusted R Square	-0.198
Standard Error	9.056
Observations	7.000

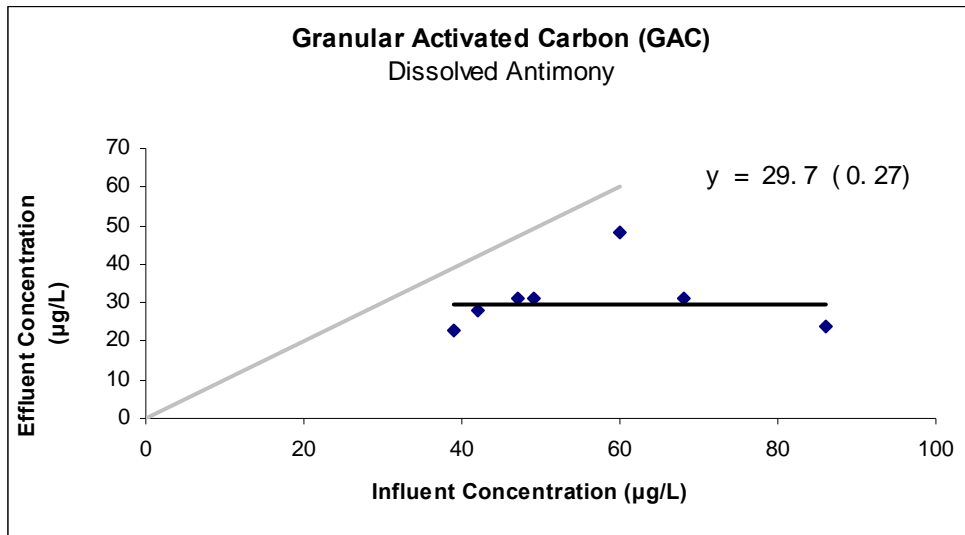
## ANOVA

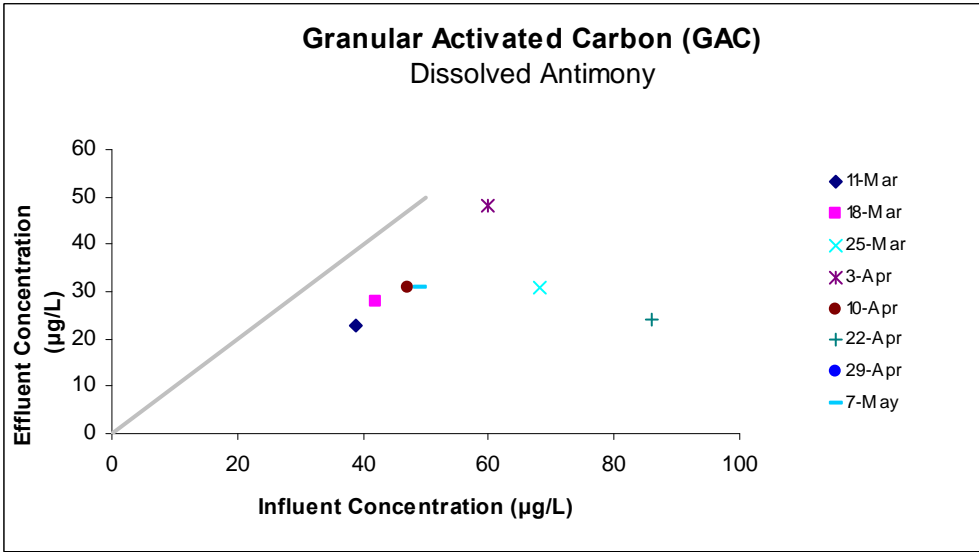
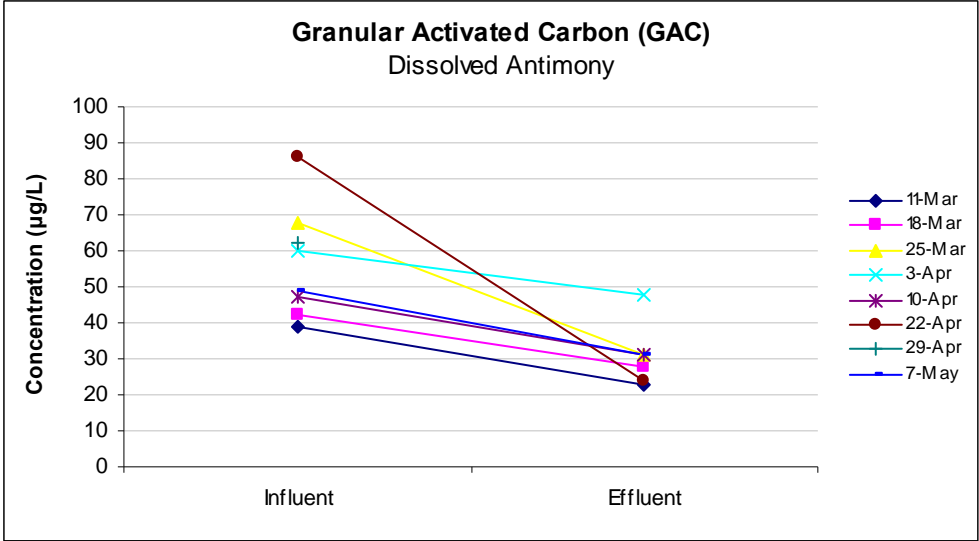
	df	SS	MS	F	Significance F
Regression	1.000	0.768	0.768	0.009	0.927
Residual	5.000	410.089	82.018		
Total	6.000	410.857			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	29.661	12.826	2.313	0.069	-3.309	62.631	-3.309	62.631
X Variable 1	0.021	0.221	0.097	0.927	-0.547	0.590	-0.547	0.590

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	30.496	-7.496
2	30.560	-2.560
3	31.117	-0.117
4	30.946	17.054
5	30.668	0.332
6	31.502	-7.502
7	30.710	0.290





## Peat Moss (P)

### Total As

Peat Moss

#### SUMMARY OUTPUT

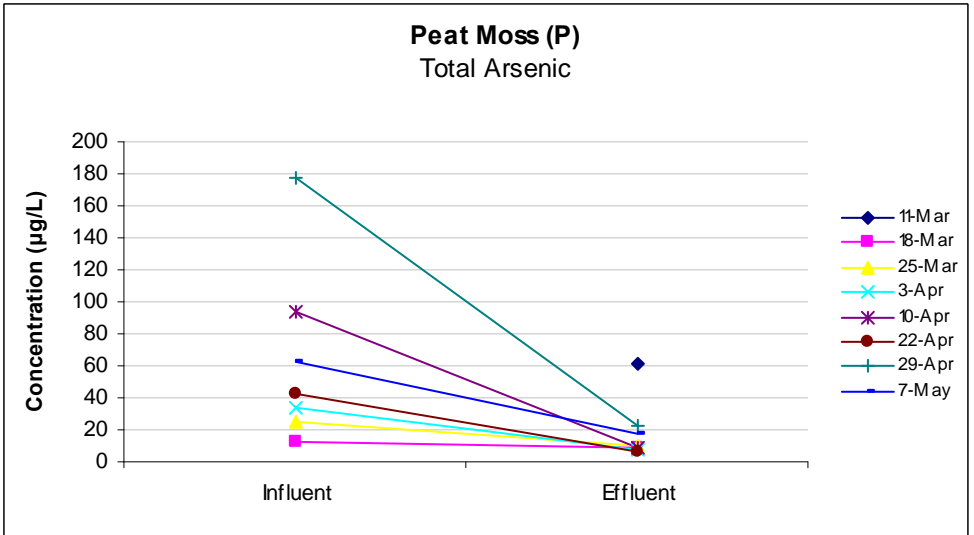
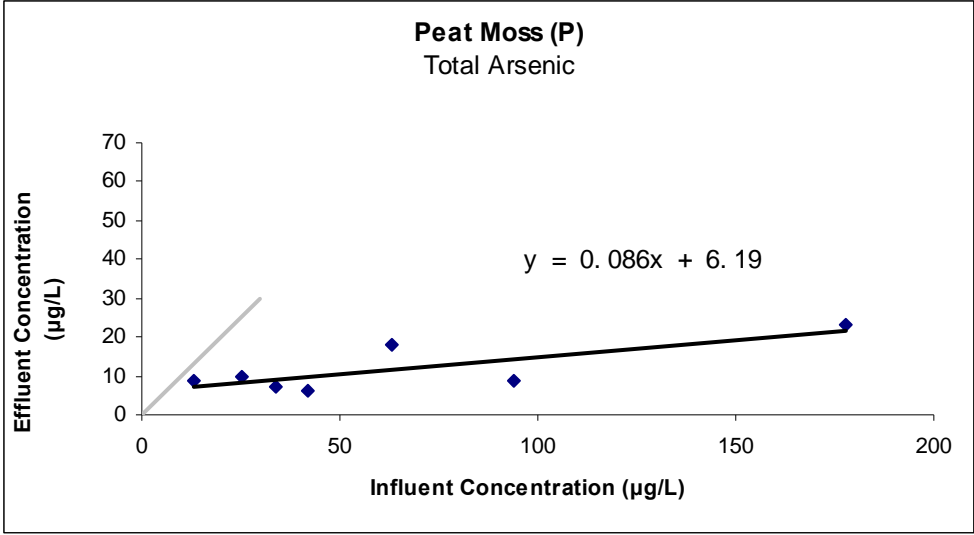
<i>Regression Statistics</i>	
Multiple R	0.775
R Square	0.601
Adjusted R Square	0.522
Standard Error	4.370
Observations	7.000

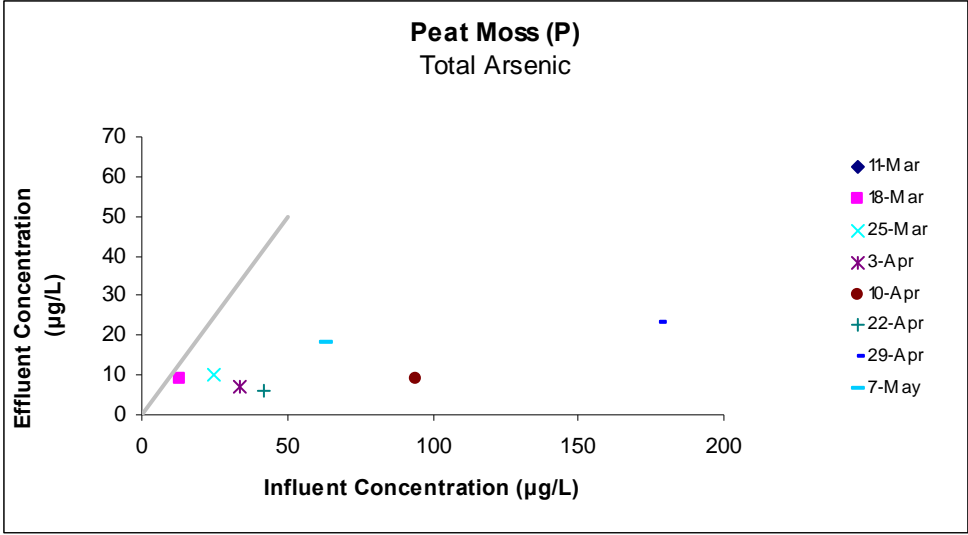
ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1.000	143.958	143.958	7.539	0.041
Residual	5.000	95.471	19.094		
Total	6.000	239.429			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	6.189	2.603	2.378	0.063	-0.502	12.881	-0.502	12.881
X Variable 1	0.086	0.031	2.746	0.041	0.005	0.167	0.005	0.167

#### RESIDUAL OUTPUT

<i>Observation</i>	<i>Predicted Y</i>	<i>Residuals</i>
1	7.309	1.691
2	8.343	1.657
3	9.118	-2.118
4	14.286	-5.286
5	9.807	-3.807
6	21.521	1.479
7	11.616	6.384





# Dissolved As

Peat Moss

## SUMMARY OUTPUT

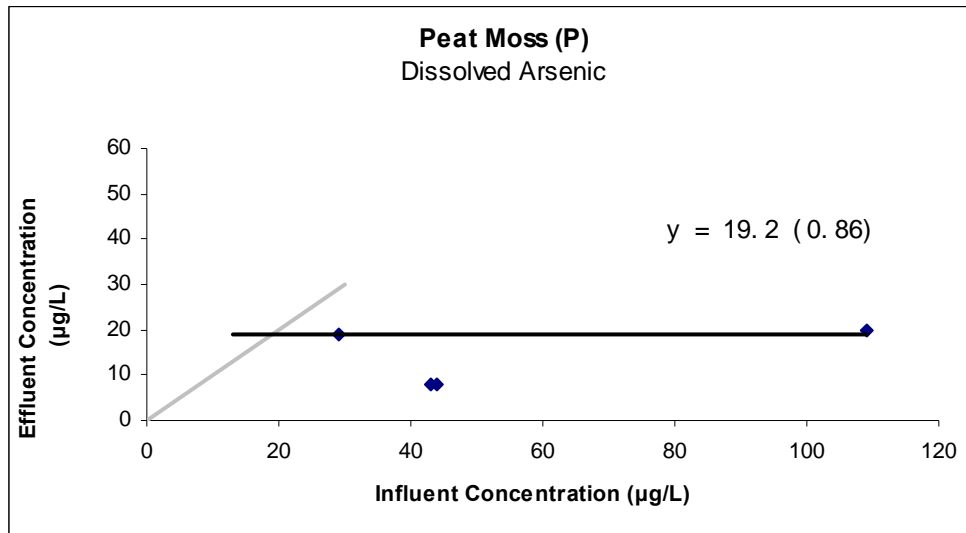
Regression Statistics	
Multiple R	0.466
R Square	0.217
Adjusted R Square	-0.174
Standard Error	7.208
Observations	4.000

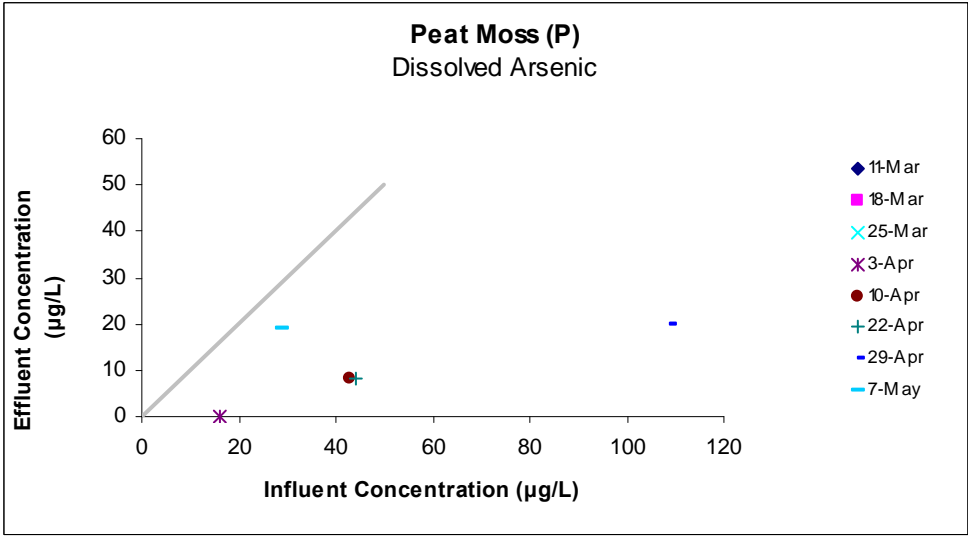
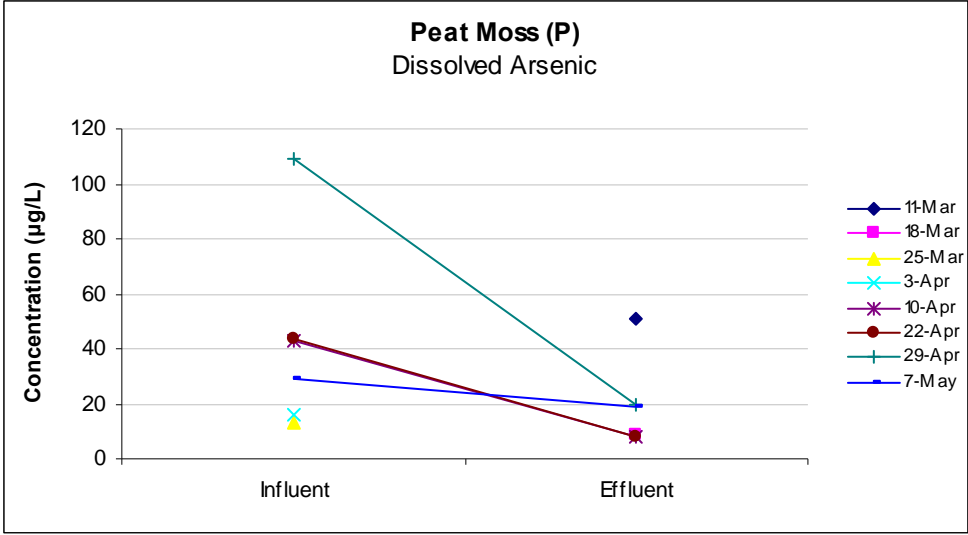
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	28.840	28.840	0.555	0.534
Residual	2.000	103.910	51.955		
Total	3.000	132.750			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	8.882	7.462	1.190	0.356	-23.224	40.988	-23.224	40.988
X Variable 1	0.087	0.116	0.745	0.534	-0.413	0.586	-0.413	0.586

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	12.603	-4.603
2	12.690	-4.690
3	18.315	1.685
4	11.392	7.608







# Total Al

Peat Moss

## SUMMARY OUTPUT

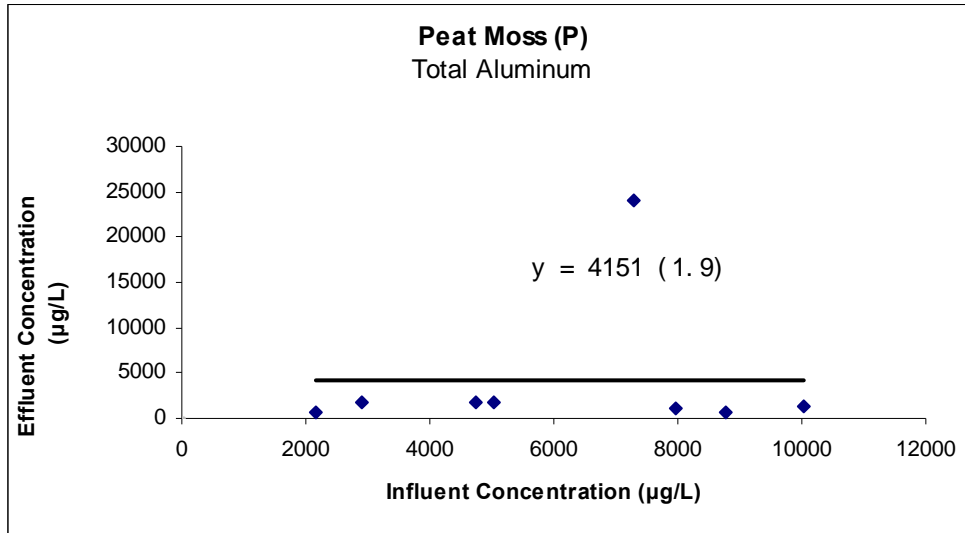
Regression Statistics	
Multiple R	0.153
R Square	0.023
Adjusted R Square	-0.139
Standard Error	8566.939
Observations	8.000

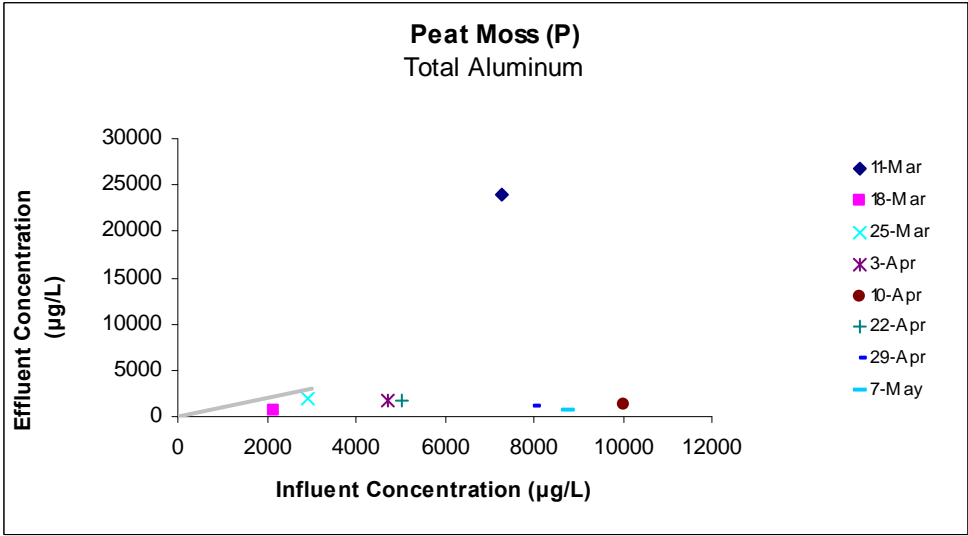
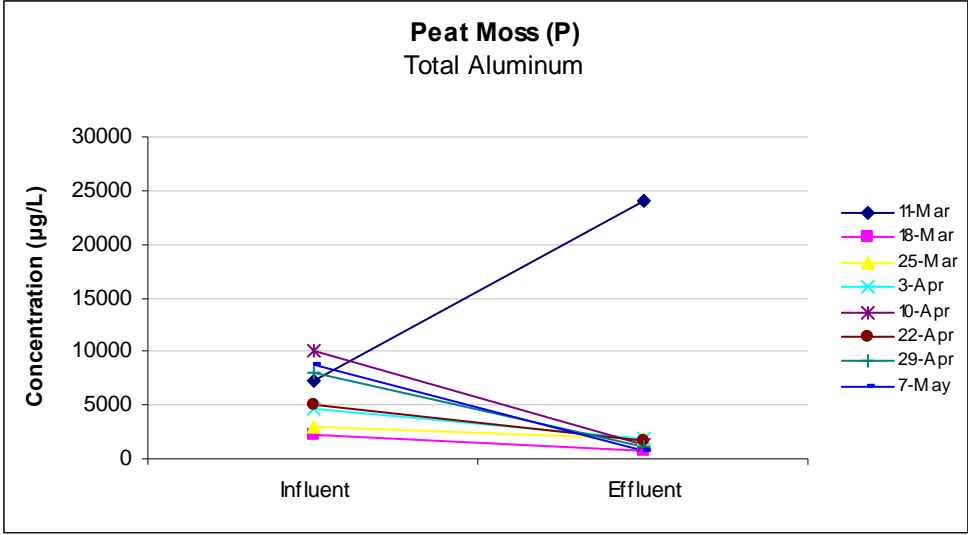
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	10535539.245	10535539.245	0.144	0.718
Residual	6.000	440354630.255	73392438.376		
Total	7.000	450890169.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	1506.899	7608.265	0.198	0.850	-17109.854	20123.652	-17109.854	20123.652
X Variable 1	0.432	1.142	0.379	0.718	-2.361	3.226	-2.361	3.226

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	4653.327	19328.673
2	2438.934	-1754.934
3	2765.038	-895.038
4	3553.050	-1769.050
5	5847.888	-4454.888
6	3689.287	-2029.287
7	4959.103	-3833.103
8	5303.372	-4592.372





# Dissolved Al

Peat Moss

## SUMMARY OUTPUT

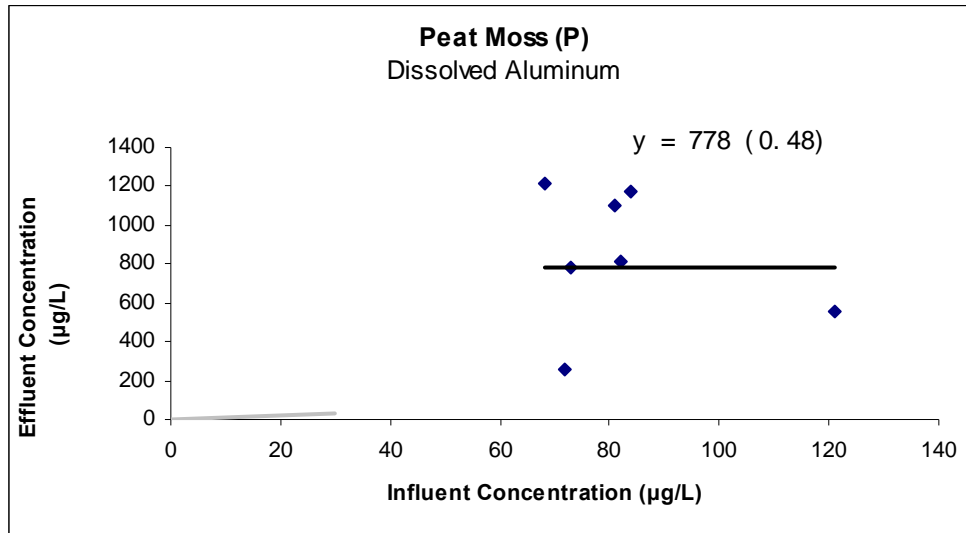
Regression Statistics	
Multiple R	0.257
R Square	0.066
Adjusted R Square	-0.121
Standard Error	373.582
Observations	7.000

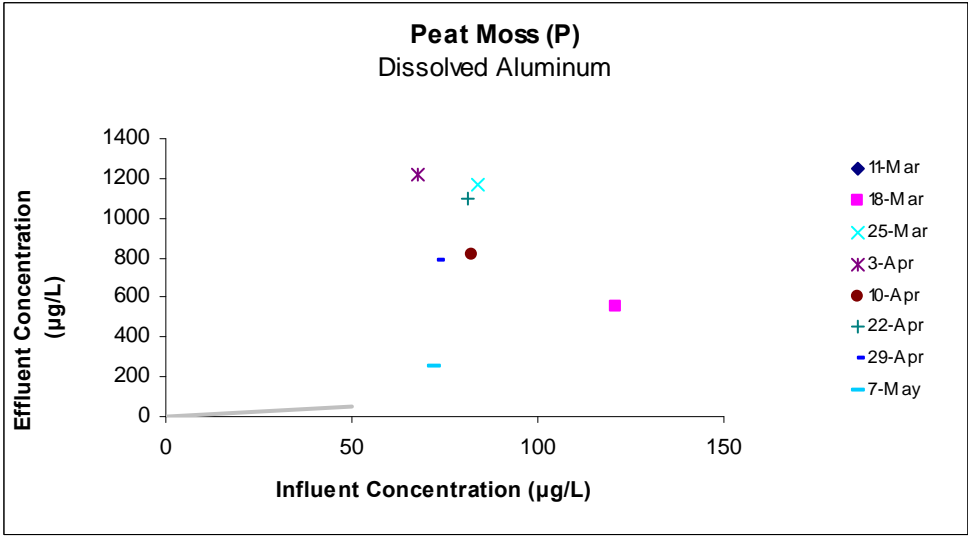
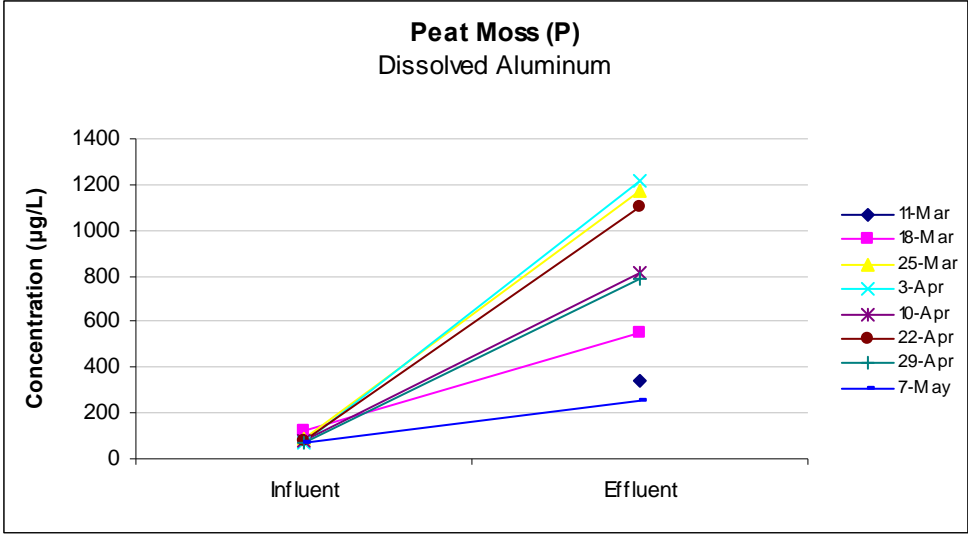
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	49472.165	49472.165	0.354	0.578
Residual	5.000	697816.692	139563.338		
Total	6.000	747288.857			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	1265.117	725.970	1.743	0.142	-601.048	3131.282	-601.048	3131.282
X Variable 1	-5.108	8.580	-0.595	0.578	-27.163	16.946	-27.163	16.946

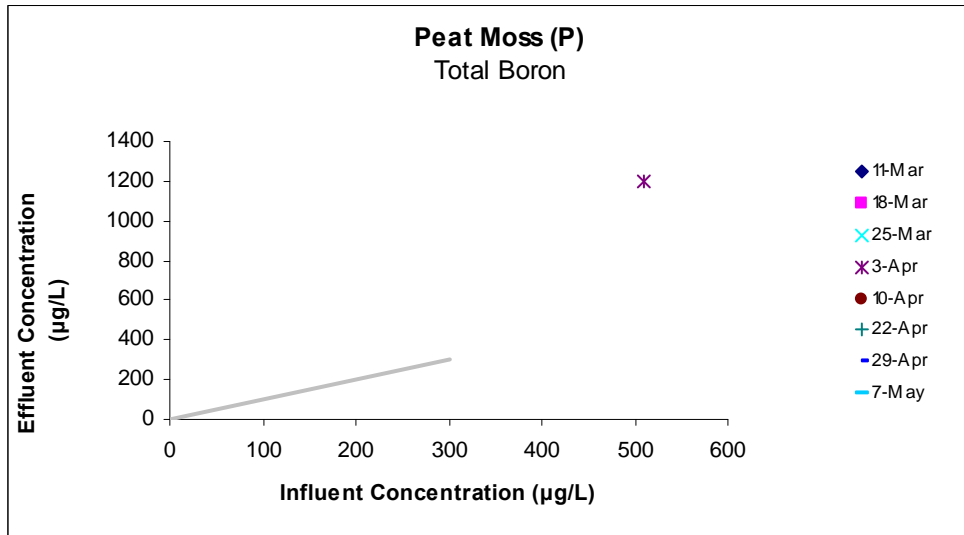
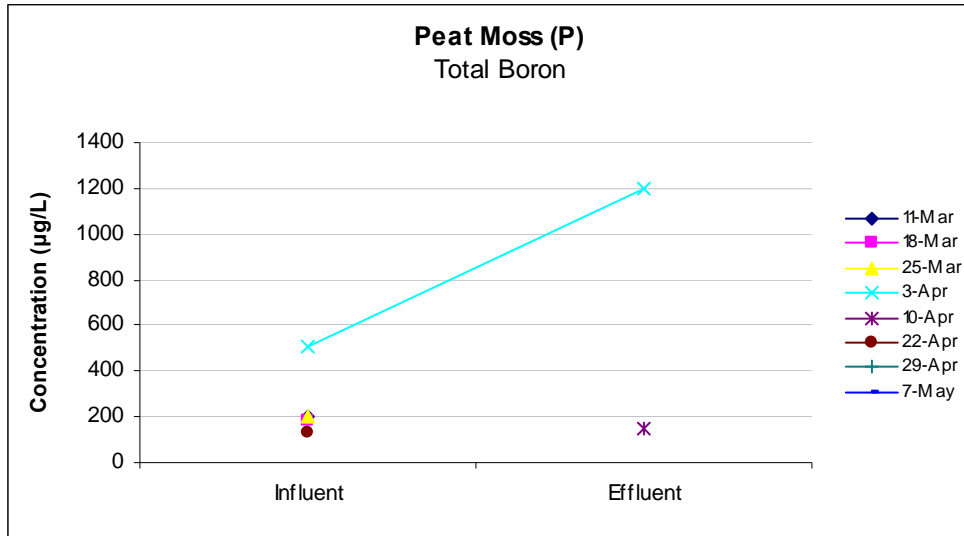
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	647.034	-94.034
2	836.035	333.965
3	917.765	297.235
4	846.251	-33.251
5	851.359	247.641
6	892.224	-107.224
7	897.332	-644.332

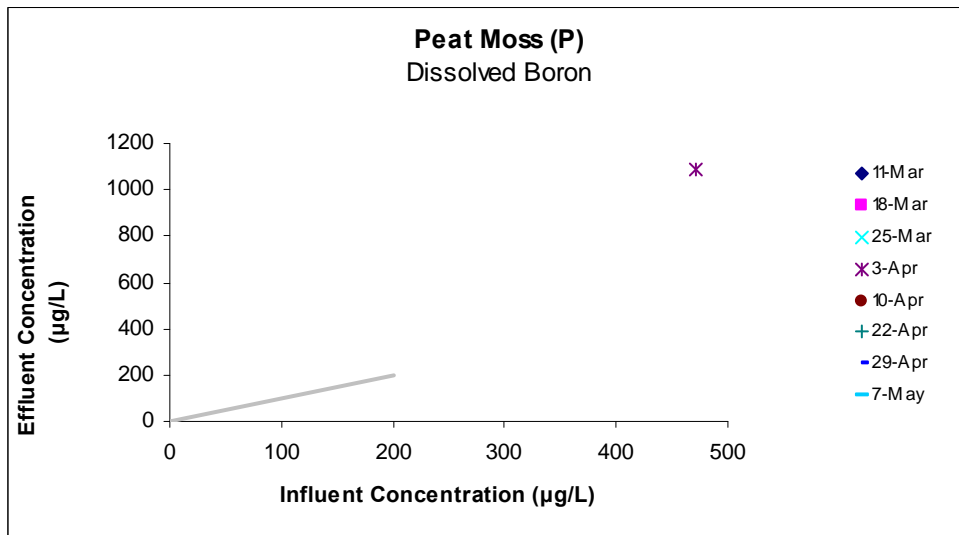
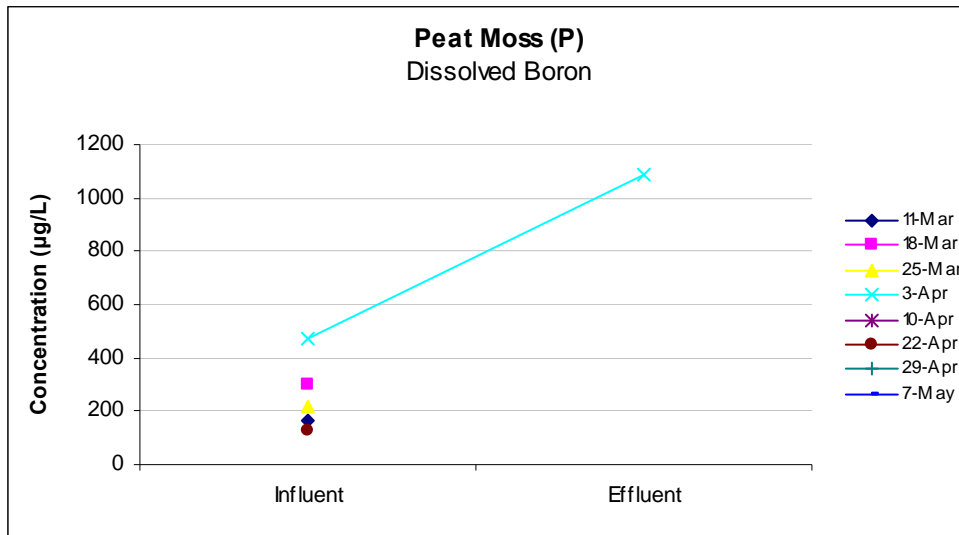




Total B



Dissolved B



# Total Ca

Peat Moss

## SUMMARY OUTPUT

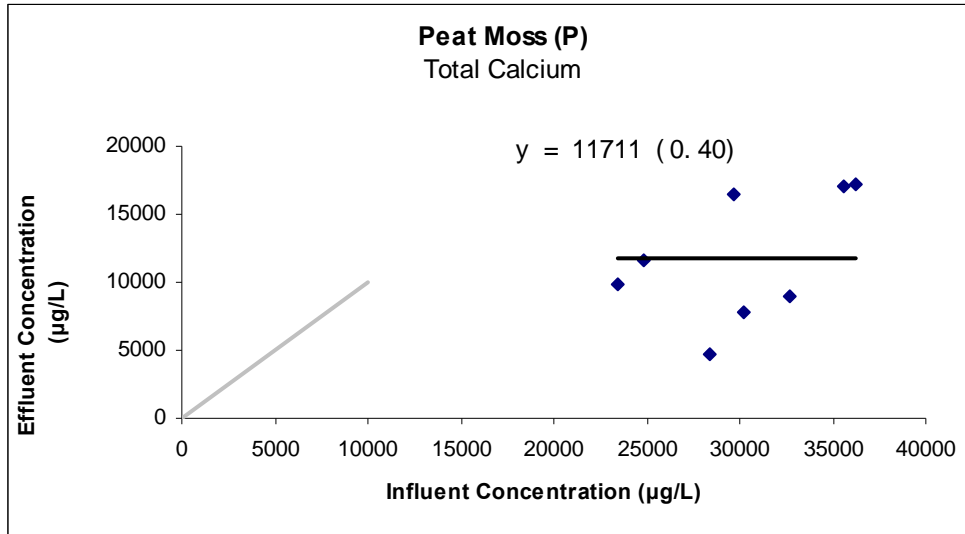
Regression Statistics	
Multiple R	0.513
R Square	0.263
Adjusted R Square	0.140
Standard Error	4383.421
Observations	8.000

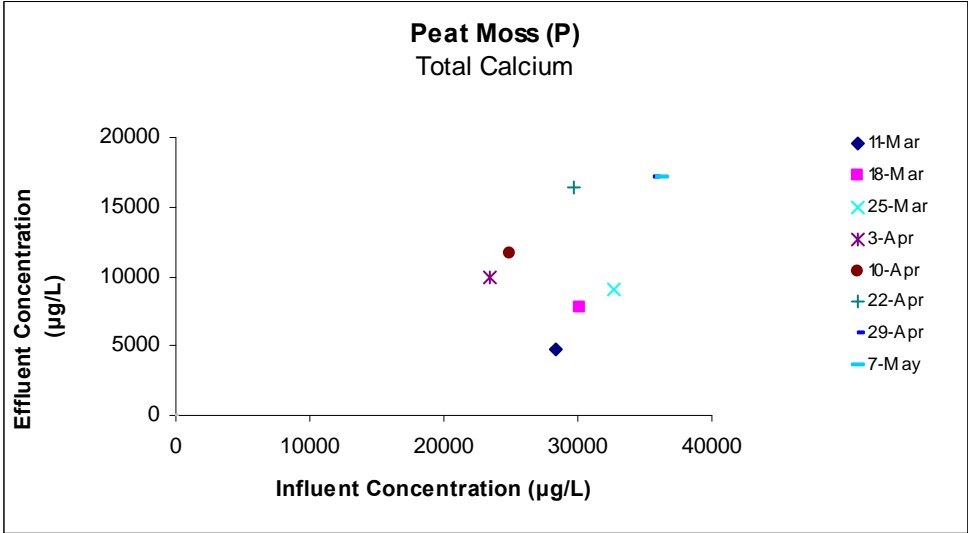
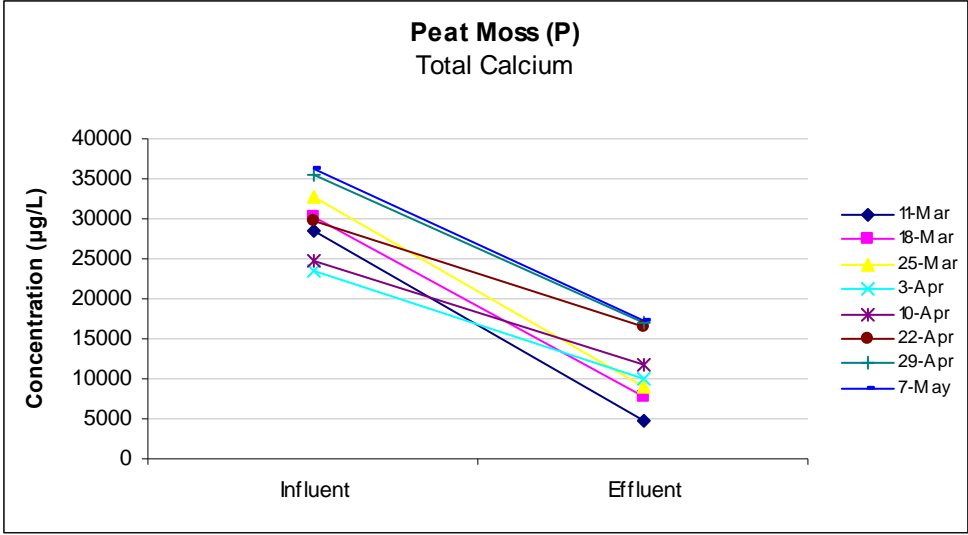
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	41148873.961	41148873.961	2.142	0.194
Residual	6.000	115286252.039	19214375.340		
Total	7.000	156435126.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-4132.788	10936.985	-0.378	0.719	-30894.627	22629.051	-30894.627	22629.051
X Variable 1	0.526	0.359	1.463	0.194	-0.353	1.404	-0.353	1.404

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	10805.943	-6074.943
2	11746.282	-4025.282
3	13022.495	-4008.495
4	8209.365	1669.635
5	8937.353	2703.647
6	11457.190	4953.810
7	14579.390	2533.610
8	14929.981	2248.019







# Dissolved Ca

Peat Moss

## SUMMARY OUTPUT

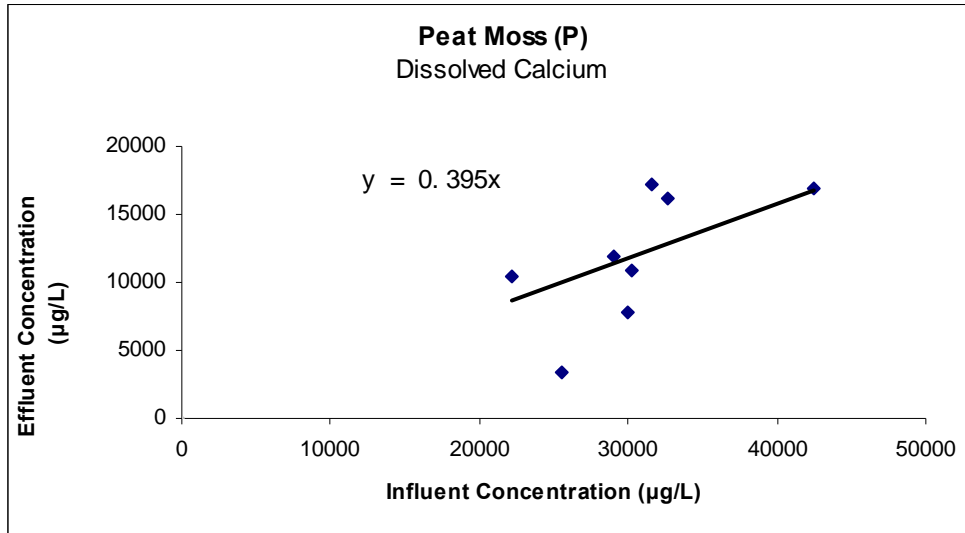
Regression Statistics	
Multiple R	0.961
R Square	0.924
Adjusted R Square	0.781
Standard Error	3752.798
Observations	8.000

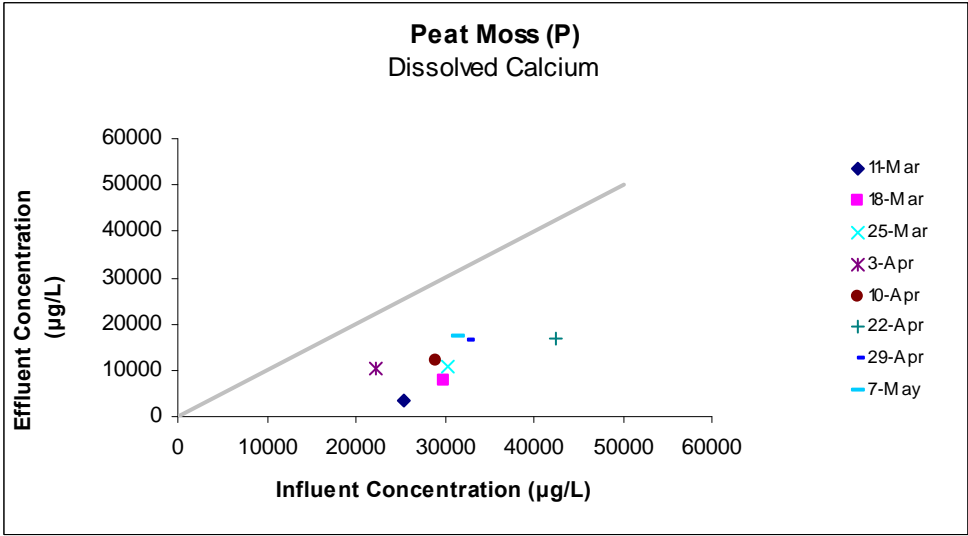
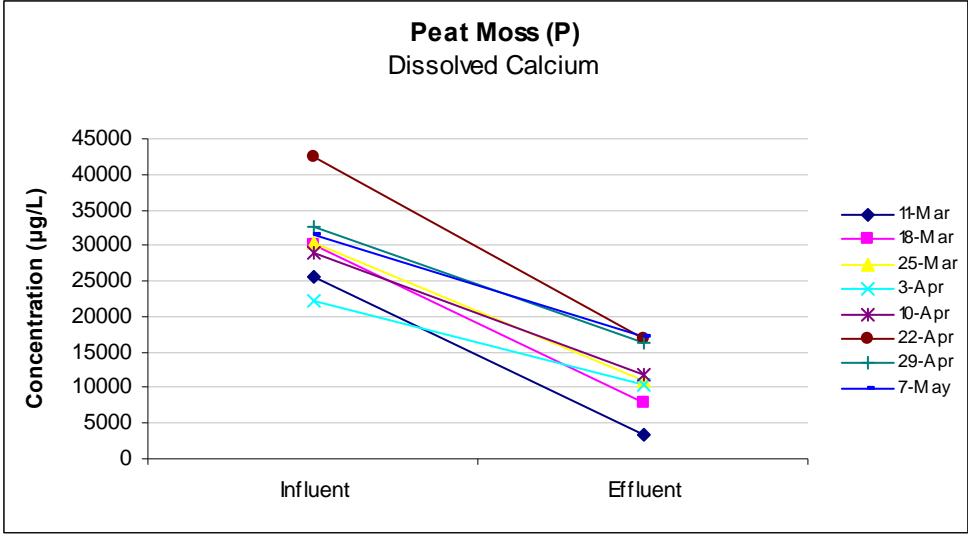
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	1191250210.933	1191250210.933	84.585	0.000
Residual	7.000	98584468.067	14083495.438		
Total	8.000	1289834679.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	0.395	0.043	9.197	0.000	0.293	0.496	0.293	0.496

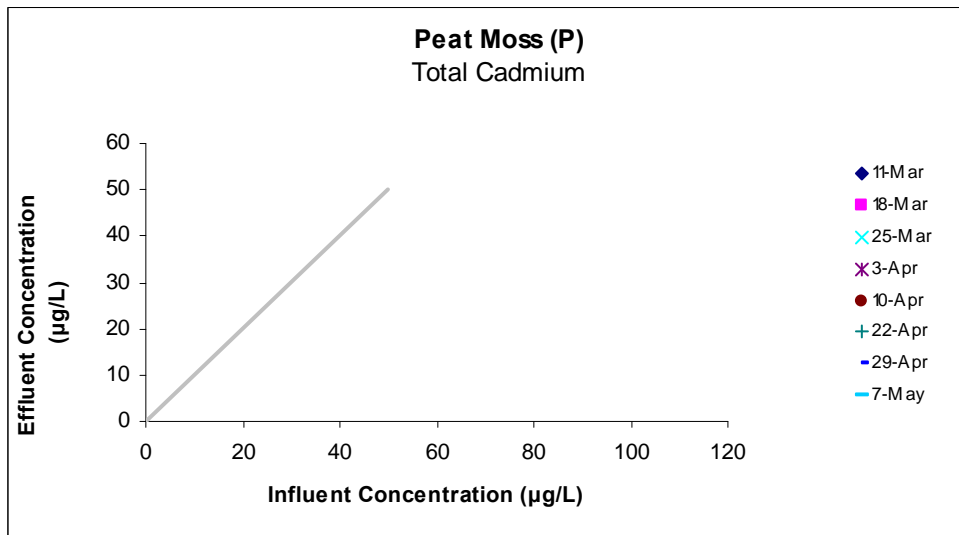
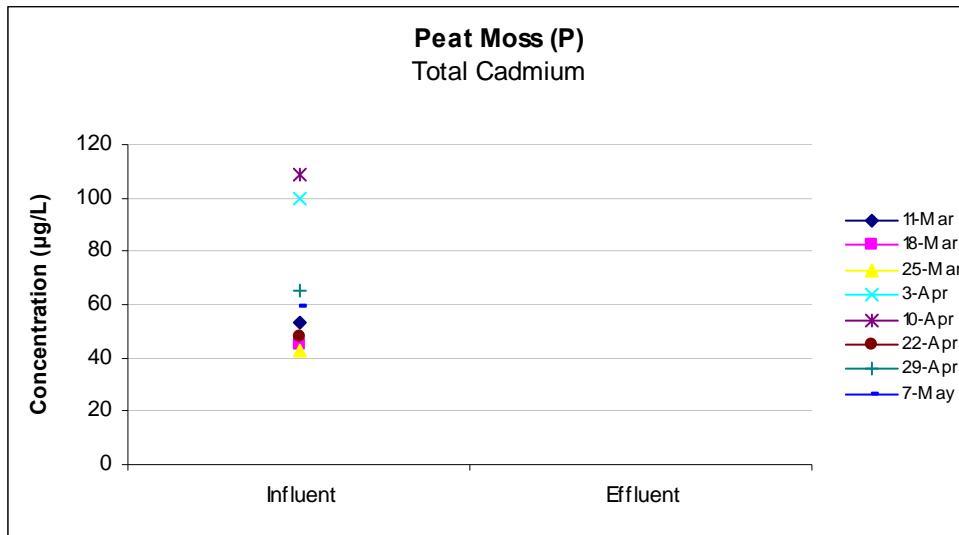
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	10061.842	-6667.842
2	11830.289	-3992.289
3	11941.557	-988.557
4	8738.466	1700.534
5	11430.199	457.801
6	16733.568	208.432
7	12874.707	3344.293
8	12436.738	4783.262

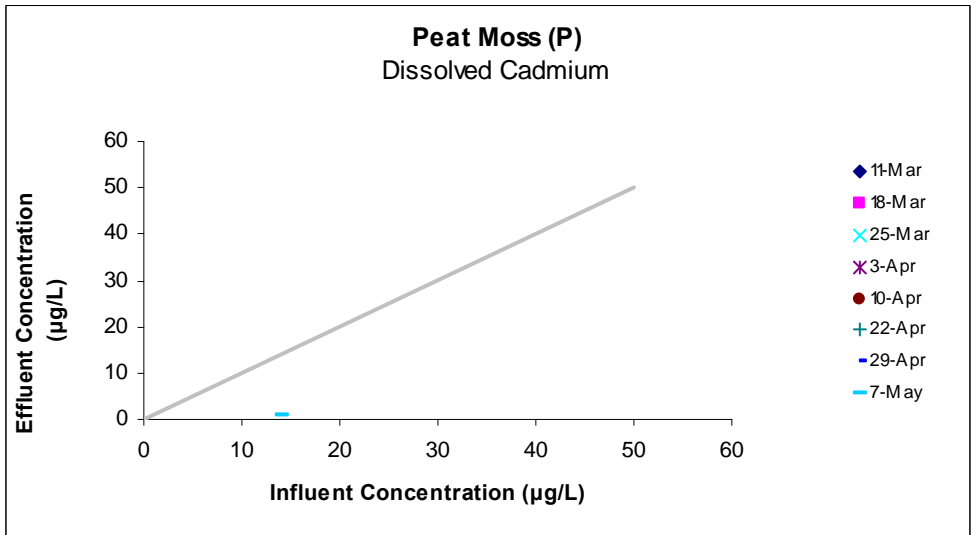
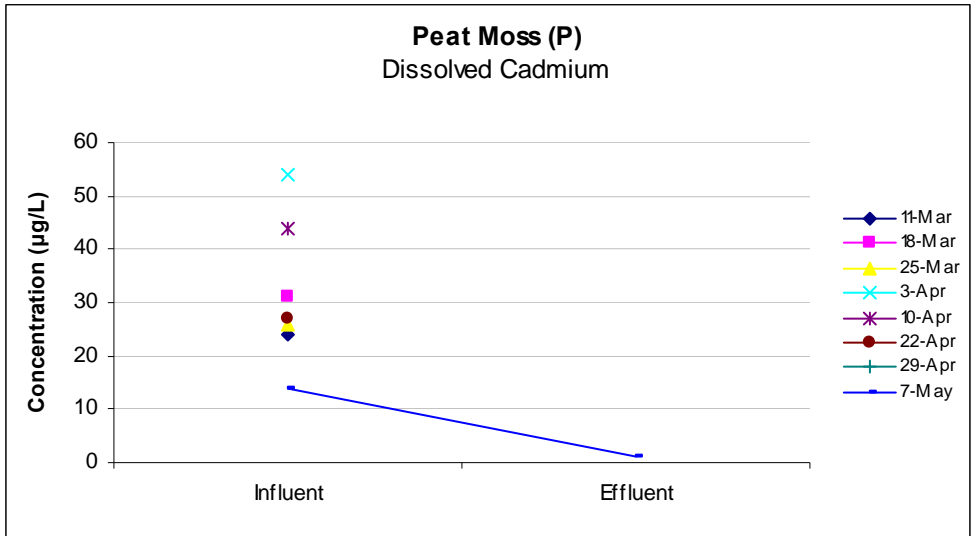




# Total Cd



# Dissolved Cd



# Total Cu

Peat Moss

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.436
R Square	0.190
Adjusted R Square	0.028
Standard Error	13.177
Observations	7.000

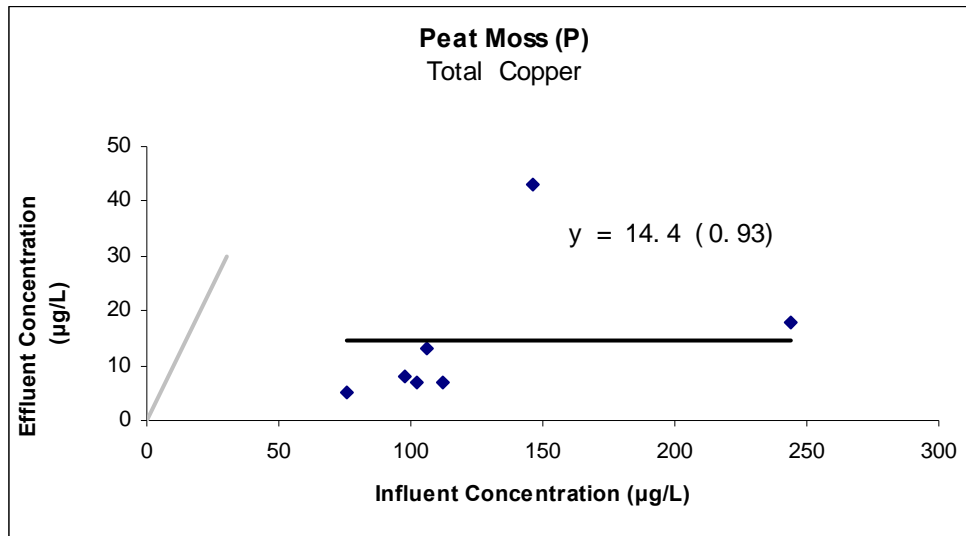
## ANOVA

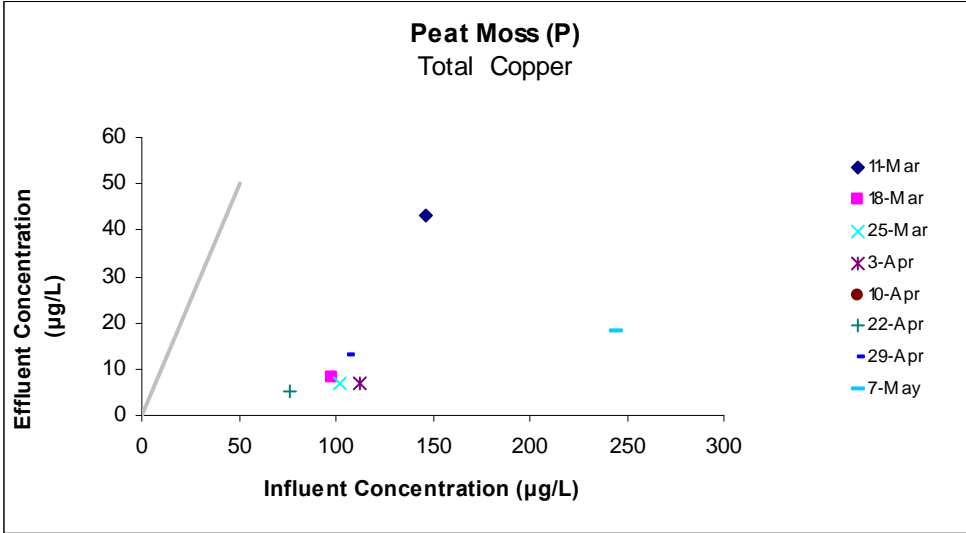
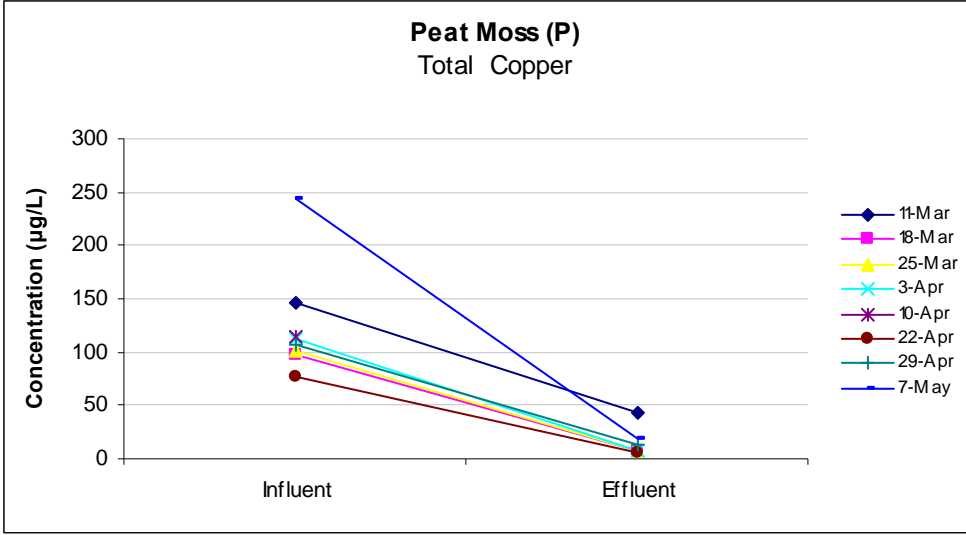
	df	SS	MS	F	Significance F
Regression	1.000	203.552	203.552	1.172	0.328
Residual	5.000	868.163	173.633		
Total	6.000	1071.714			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	1.281	13.125	0.098	0.926	-32.457	35.019	-32.457	35.019
X Variable 1	0.104	0.096	1.083	0.328	-0.143	0.351	-0.143	0.351

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	16.481	26.519
2	11.484	-3.484
3	11.900	-4.900
4	12.941	-5.941
5	9.193	-4.193
6	12.317	0.683
7	26.684	-8.684





# Dissolved Cu

Peat Moss

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.405
R Square	0.164
Adjusted R Square	0.025
Standard Error	4.662
Observations	8.000

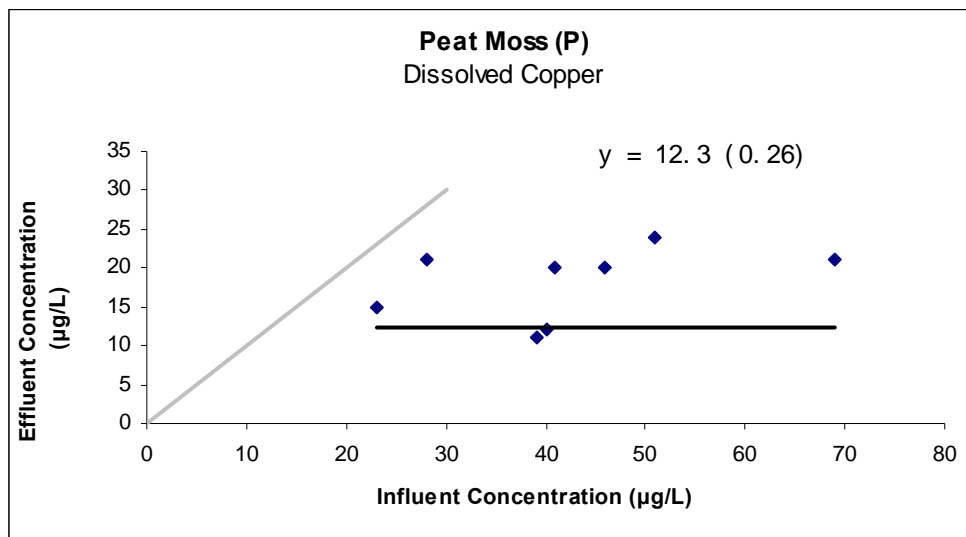
## ANOVA

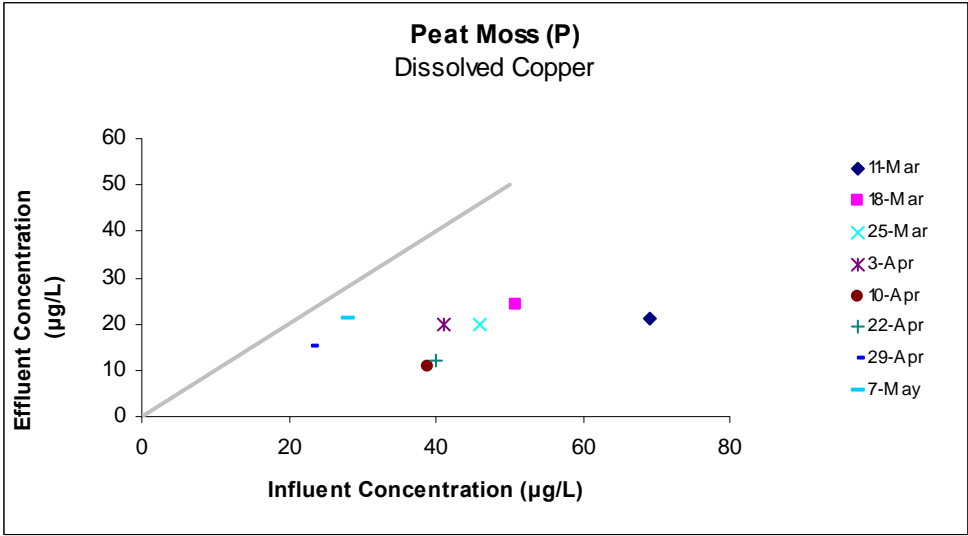
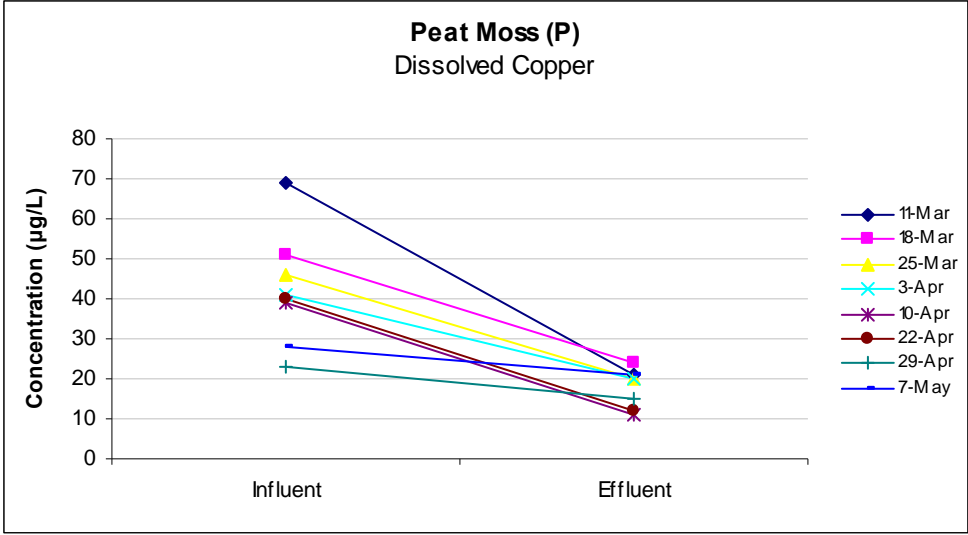
	df	SS	MS	F	Significance F
Regression	1.000	25.572	25.572	1.176	0.320
Residual	6.000	130.428	21.738		
Total	7.000	156.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	12.300	5.507	2.233	0.067	-1.176	25.777	-1.176	25.777
X Variable 1	0.135	0.125	1.085	0.320	-0.170	0.441	-0.170	0.441

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	21.636	-0.636
2	19.201	4.799
3	18.524	1.476
4	17.848	2.152
5	17.577	-6.577
6	17.712	-5.712
7	15.412	-0.412
8	16.089	4.911







# Total Fe

Peat Moss

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.001
R Square	0.000
Adjusted R Square	-0.167
Standard Error	7631.317
Observations	8.000

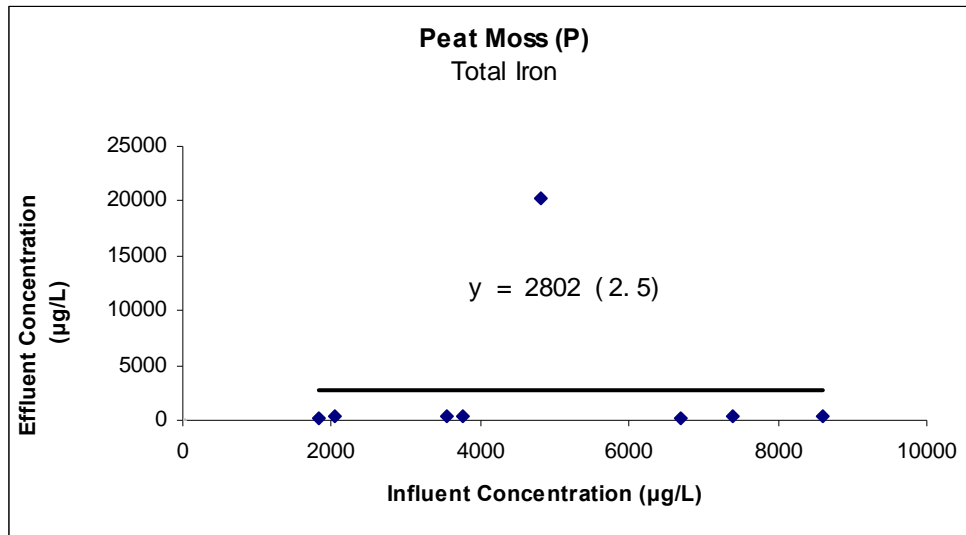
## ANOVA

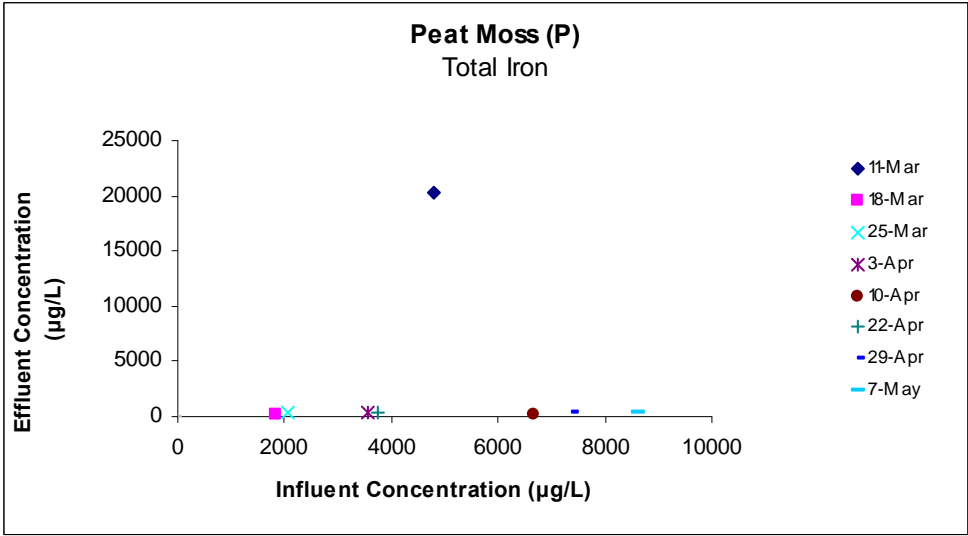
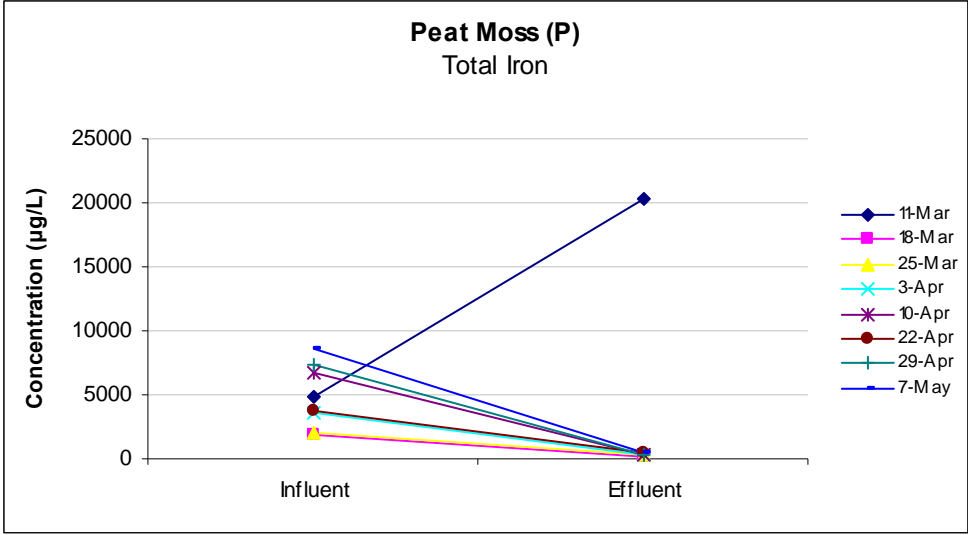
	df	SS	MS	F	Significance F
Regression	1.000	105.937	105.937	0.000	0.999
Residual	6.000	349422015.563	58237002.594		
Total	7.000	349422121.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	2794.741	6187.090	0.452	0.667	-12344.523	17934.004	-12344.523	17934.004
X Variable 1	0.002	1.152	0.001	0.999	-2.816	2.819	-2.816	2.819

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	2802.213	17483.787
2	2797.567	-2692.567
3	2797.922	-2421.922
4	2800.267	-2514.267
5	2805.122	-2557.122
6	2800.565	-2380.565
7	2806.222	-2513.222
8	2808.122	-2404.122





# Dissolved Fe

Peat Moss

## SUMMARY OUTPUT

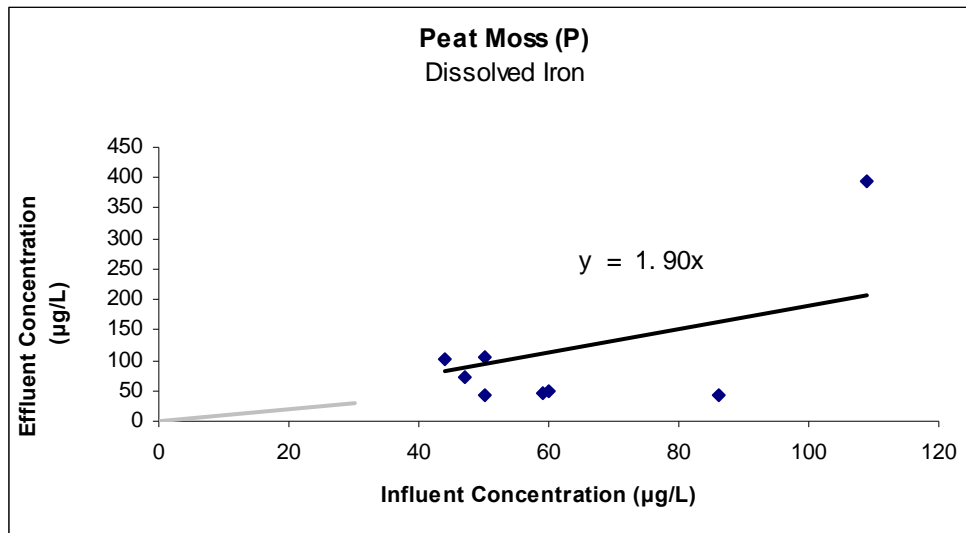
Regression Statistics	
Multiple R	0.823
R Square	0.677
Adjusted R Square	0.534
Standard Error	93.638
Observations	8.000

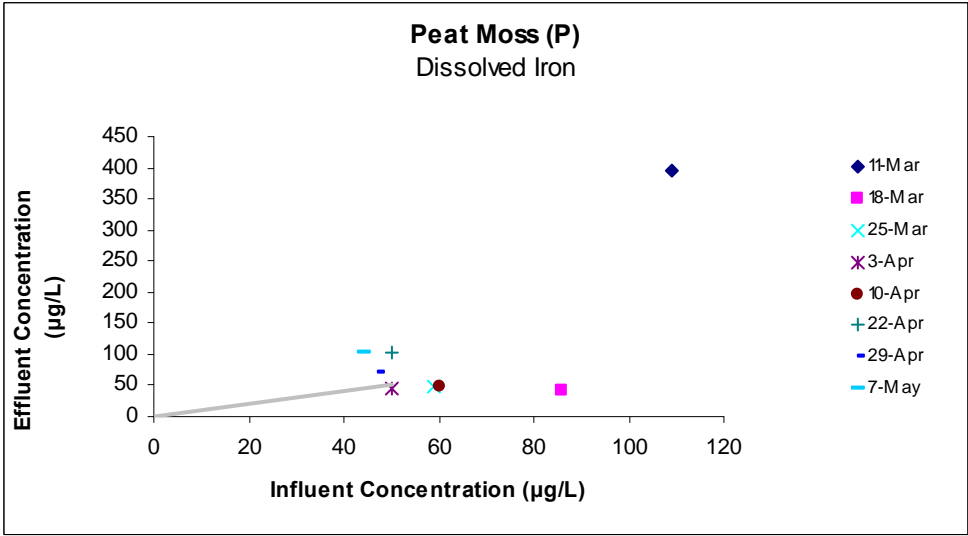
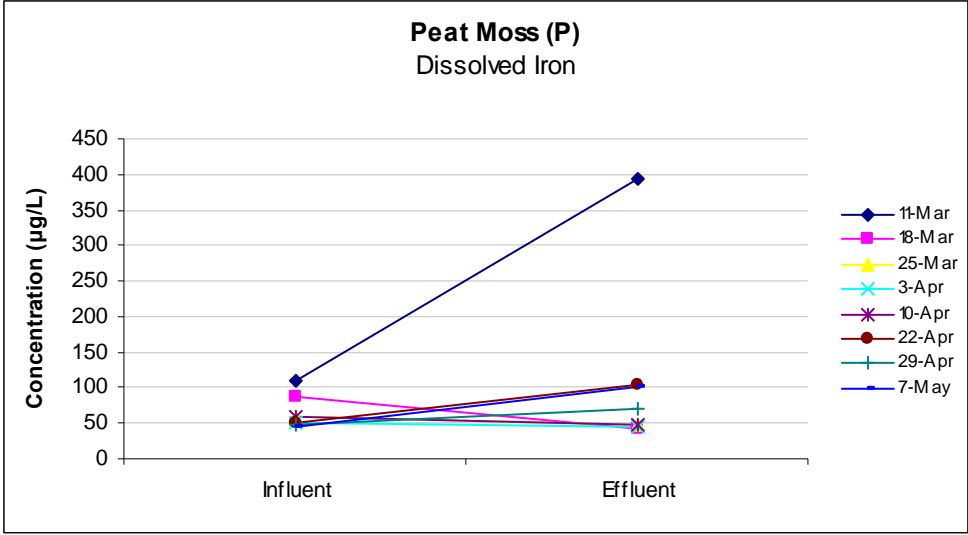
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	128417.894	128417.894	14.646	0.009
Residual	7.000	61377.106	8768.158		
Total	8.000	189795.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	1.902	0.497	3.827	0.006	0.727	3.077	0.727	3.077

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	207.304	186.696
2	163.561	-120.561
3	112.210	-65.210
4	95.093	-51.093
5	114.112	-66.112
6	95.093	8.907
7	89.388	-18.388
8	83.682	18.318





# Total Mg

Peat Moss

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.737
R Square	0.543
Adjusted R Square	0.467
Standard Error	1827.897
Observations	8.000

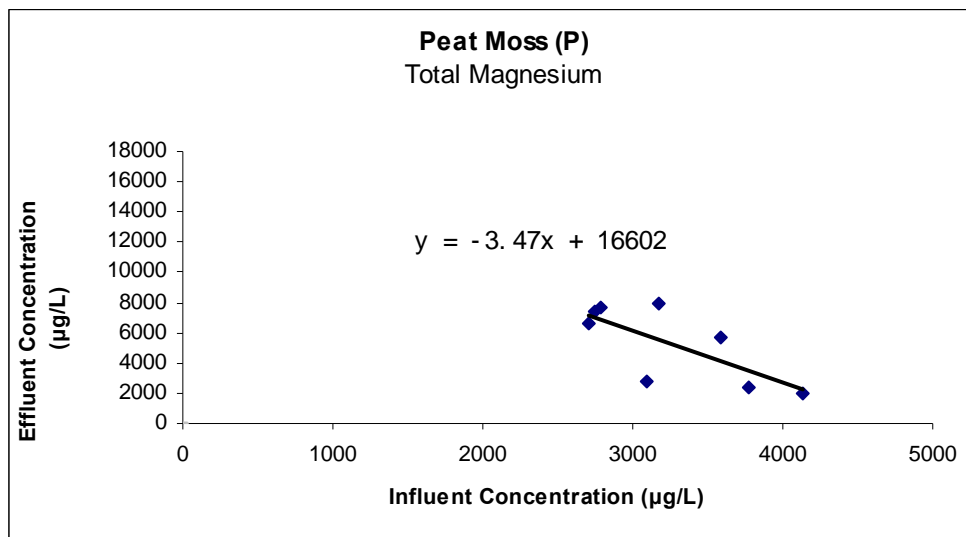
## ANOVA

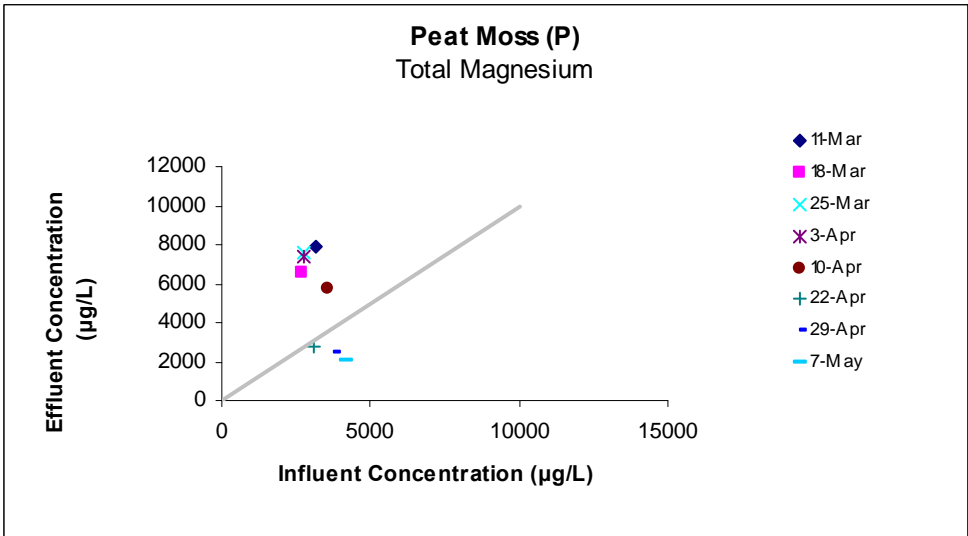
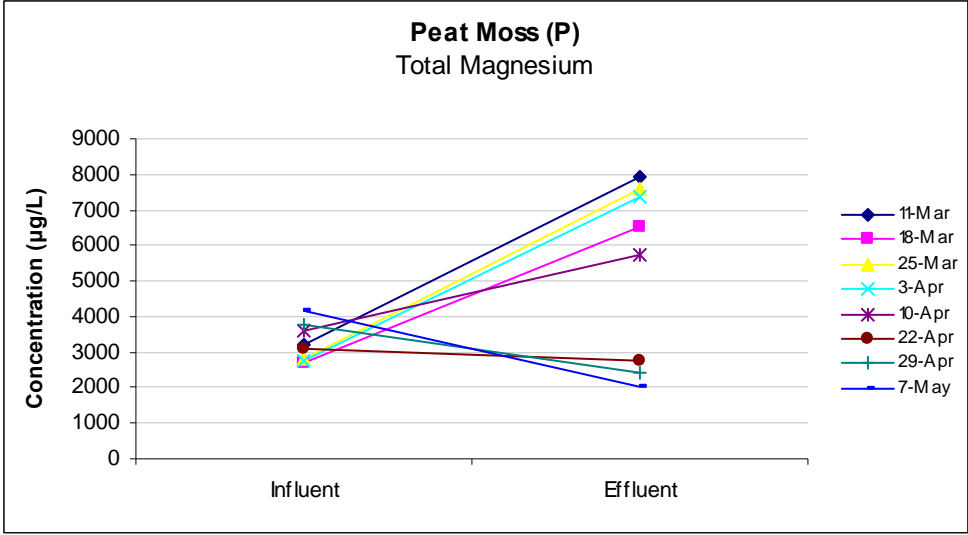
	df	SS	MS	F	Significance F
Regression	1.000	23813404.861	23813404.861	7.127	0.037
Residual	6.000	20047238.014	3341206.336		
Total	7.000	43860642.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	16602.371	4281.491	3.878	0.008	6125.941	27078.801	6125.941	27078.801
X Variable 1	-3.474	1.301	-2.670	0.037	-6.659	-0.290	-6.659	-0.290

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	5557.616	2387.384
2	7204.428	-651.428
3	6912.588	707.412
4	7068.931	304.069
5	4129.685	1597.315
6	5835.559	-3102.559
7	3493.891	-1057.891
8	2222.302	-184.302





# Dissolved Mg

Peat Moss

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.200
R Square	0.040
Adjusted R Square	-0.120
Standard Error	2388.836
Observations	8.000

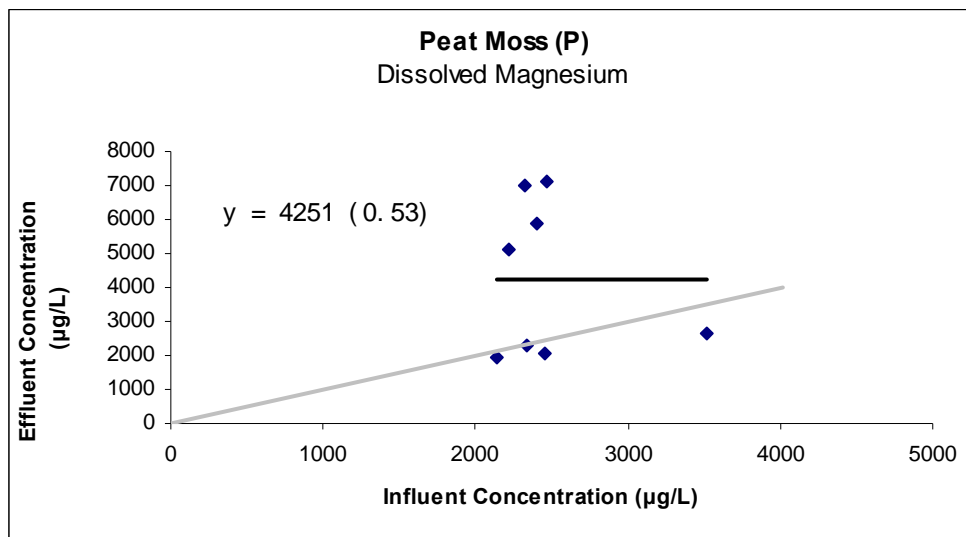
## ANOVA

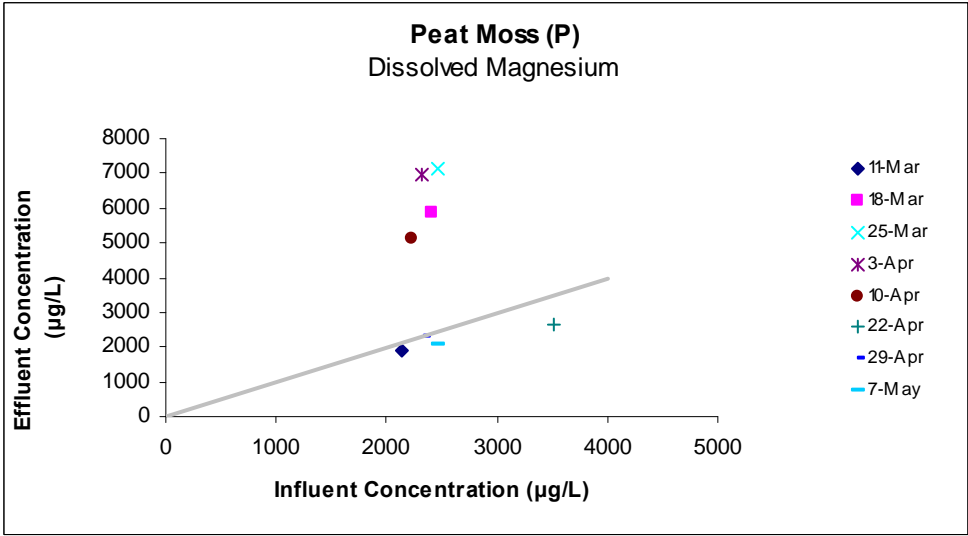
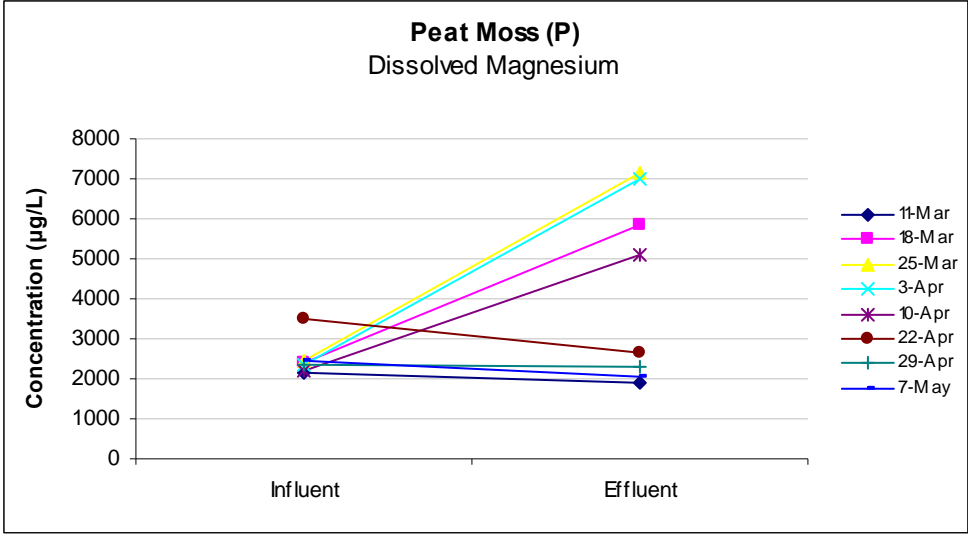
	df	SS	MS	F	Significance F
Regression	1.000	1431229.227	1431229.227	0.251	0.634
Residual	6.000	34239228.273	5706538.045		
Total	7.000	35670457.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	6851.319	5259.046	1.303	0.240	-6017.104	19719.741	-6017.104	19719.741
X Variable 1	-1.047	2.090	-0.501	0.634	-6.161	4.068	-6.161	4.068

## RESIDUAL OUTPUT

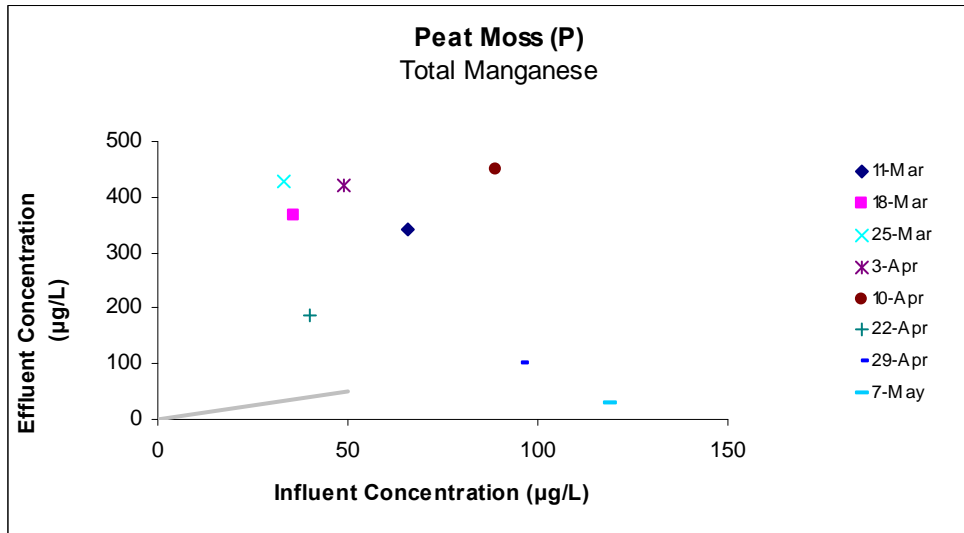
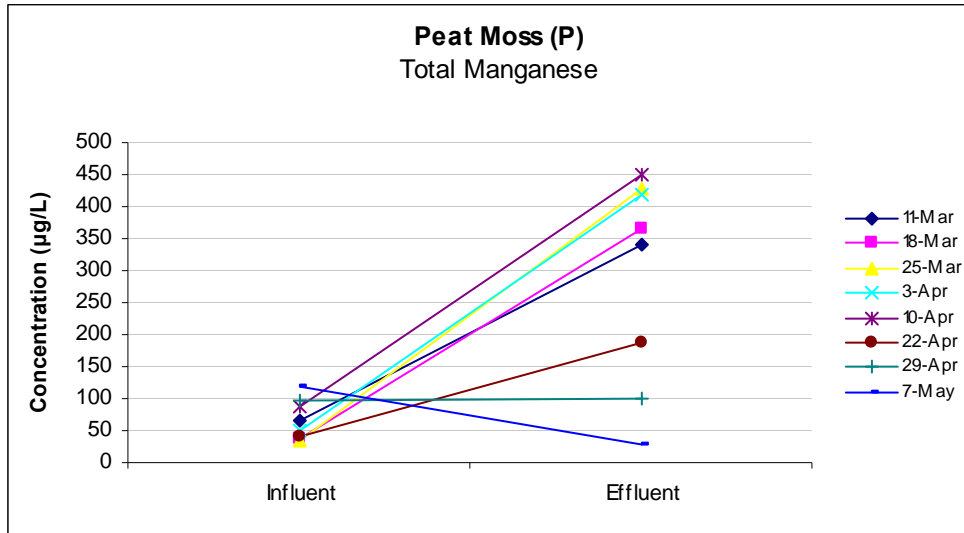
Observation	Predicted Y	Residuals
1	4607.117	-2693.117
2	4334.966	1526.034
3	4273.208	2854.792
4	4415.564	2560.436
5	4526.518	595.482
6	3169.948	-528.948
7	4407.190	-2089.190
8	4279.489	-2225.489



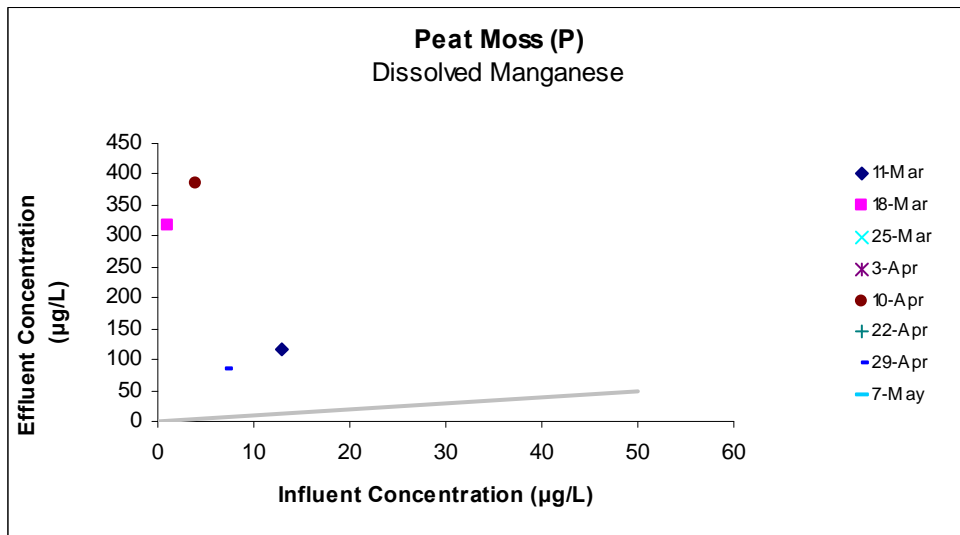
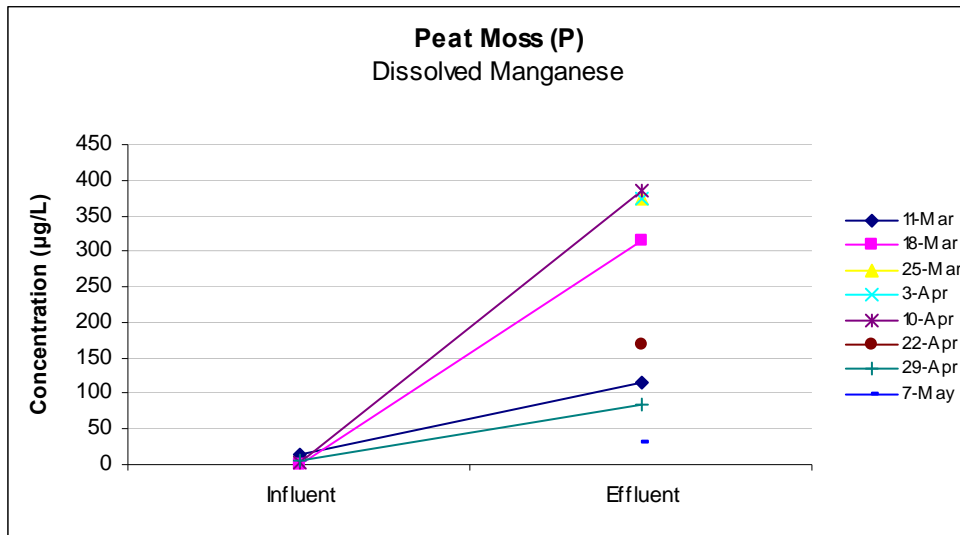




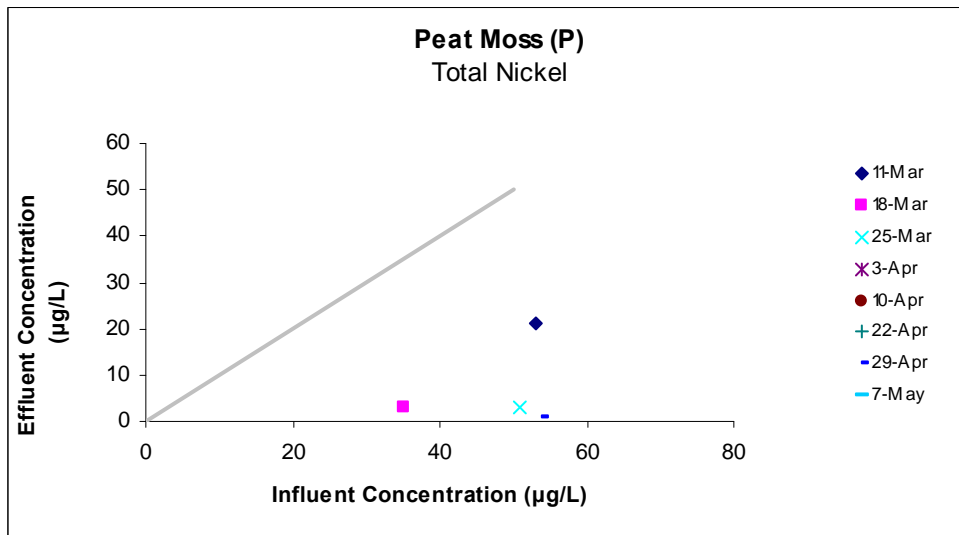
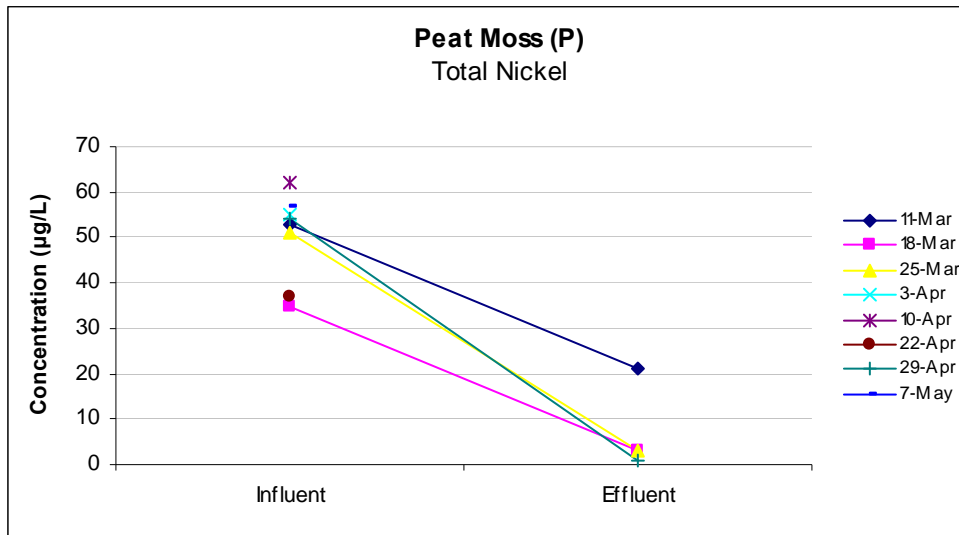
Total Mn



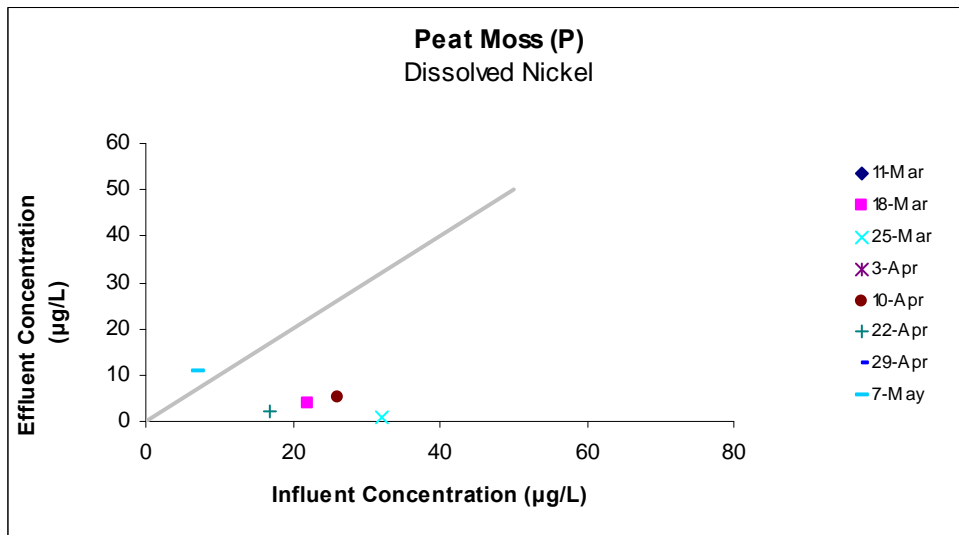
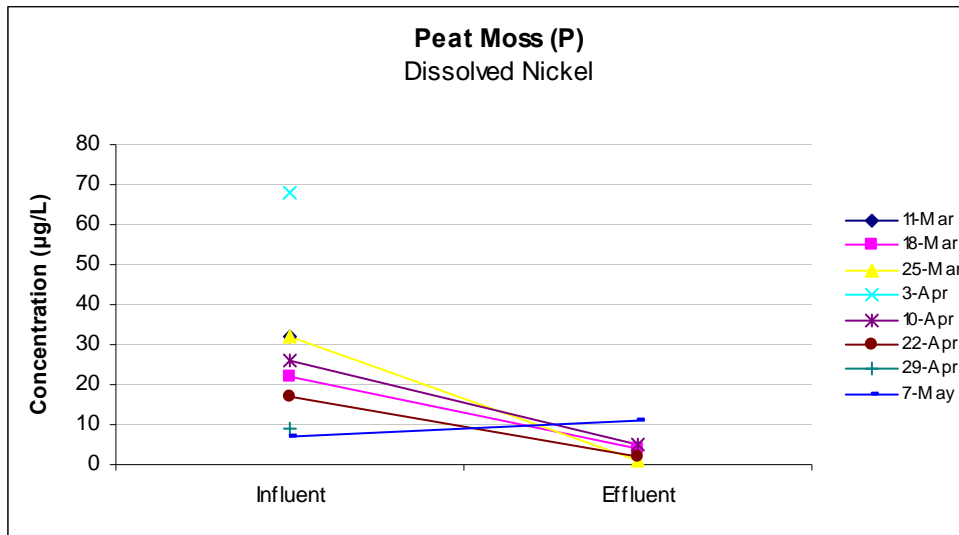
## Dissolved Mn



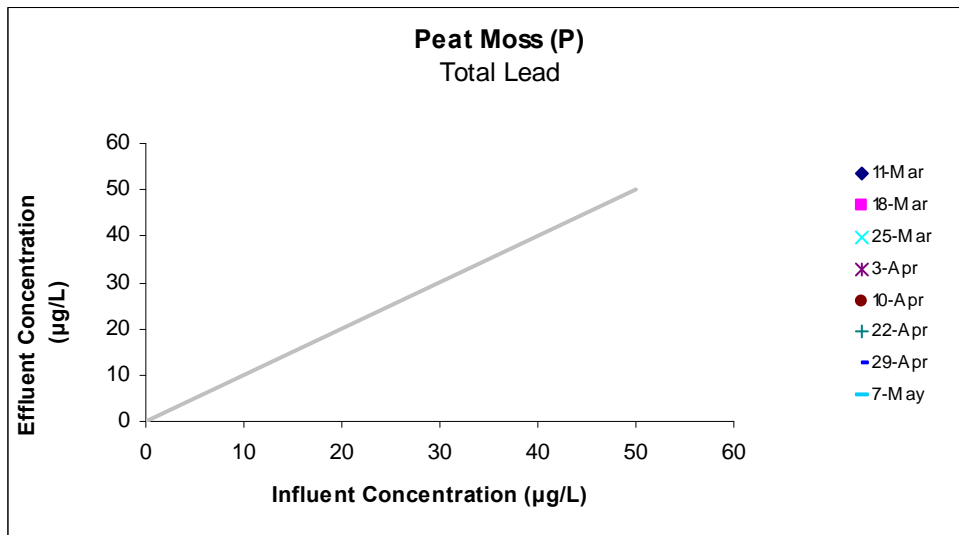
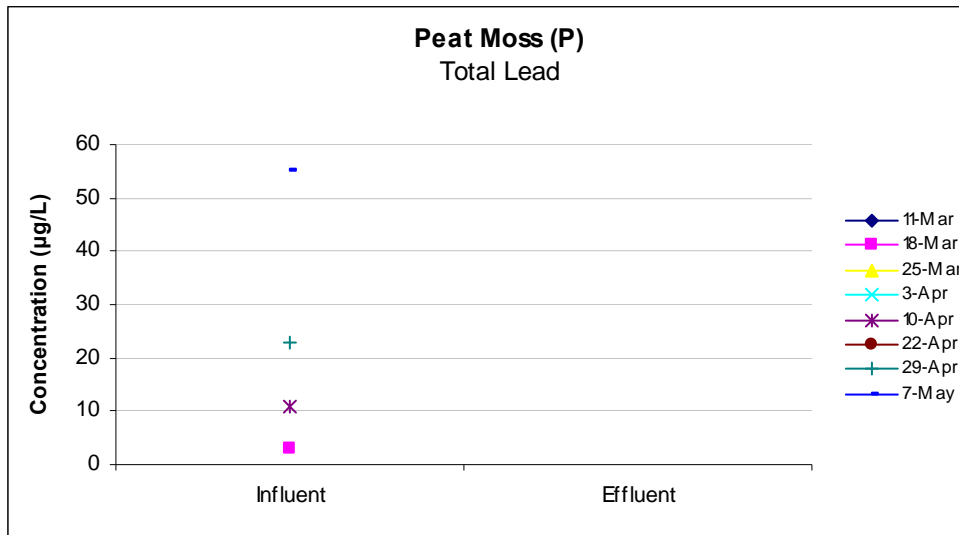
Total Ni



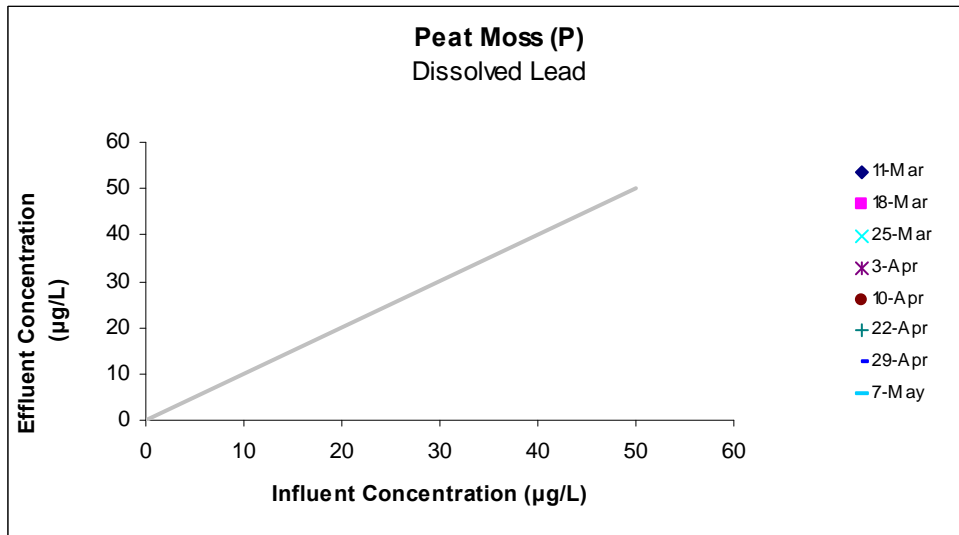
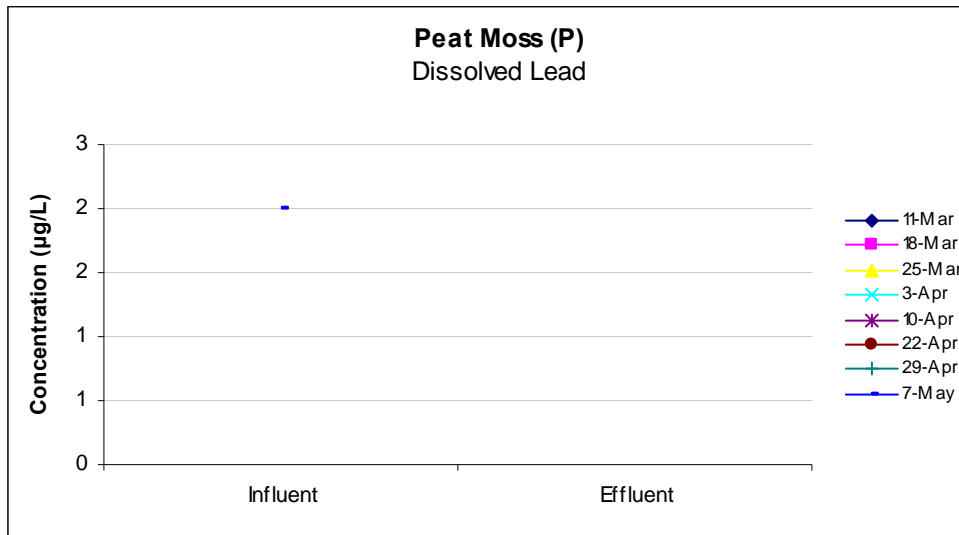
# Dissolved Ni



Total Pb



Dissolved Pb



# Total Zn

Peat Moss

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.261
R Square	0.068
Adjusted R Square	-0.087
Standard Error	30.594
Observations	8.000

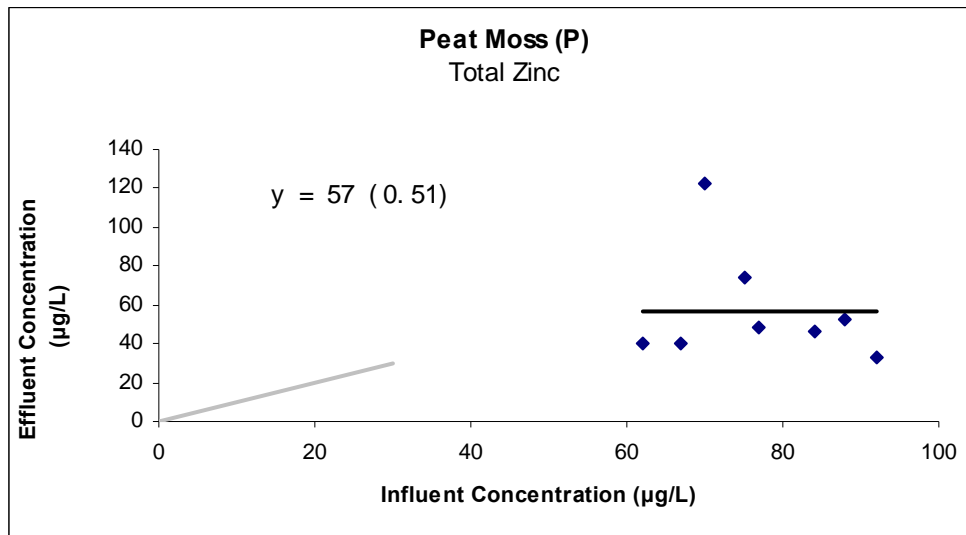
## ANOVA

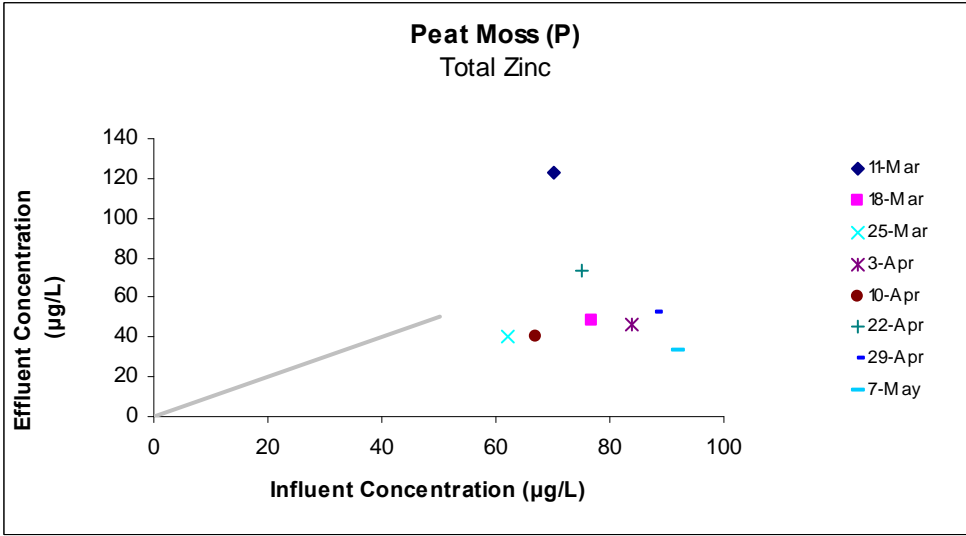
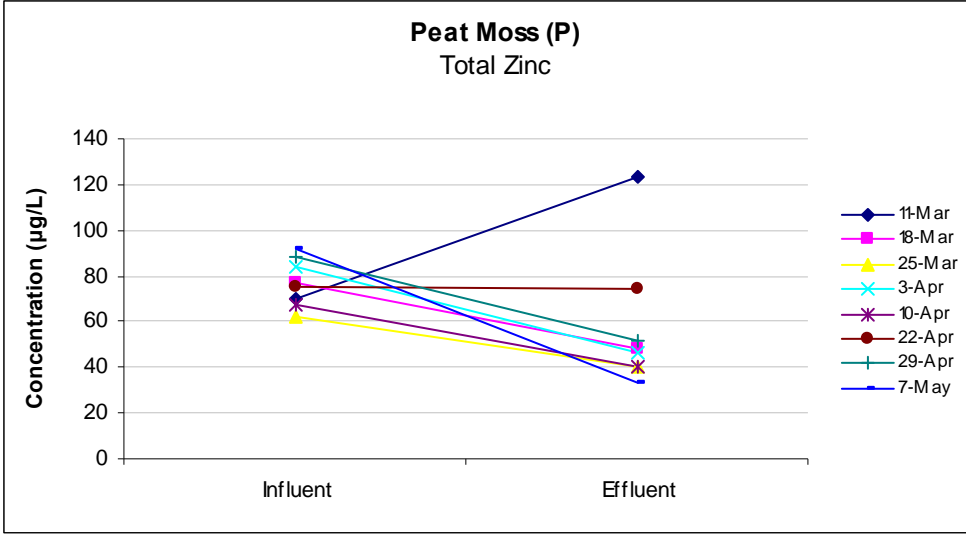
	df	SS	MS	F	Significance F
Regression	1.000	410.117	410.117	0.438	0.533
Residual	6.000	5615.883	935.981		
Total	7.000	6026.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	113.000	85.287	1.325	0.233	-95.691	321.690	-95.691	321.690
X Variable 1	-0.728	1.100	-0.662	0.533	-3.421	1.964	-3.421	1.964

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	62.008	60.992
2	56.909	-8.909
3	67.836	-27.836
4	51.810	-5.810
5	64.193	-24.193
6	58.366	15.634
7	48.896	3.104
8	45.982	-12.982







# Dissolved Zn

Peat Moss

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.742
R Square	0.551
Adjusted R Square	0.476
Standard Error	9.198
Observations	8.000

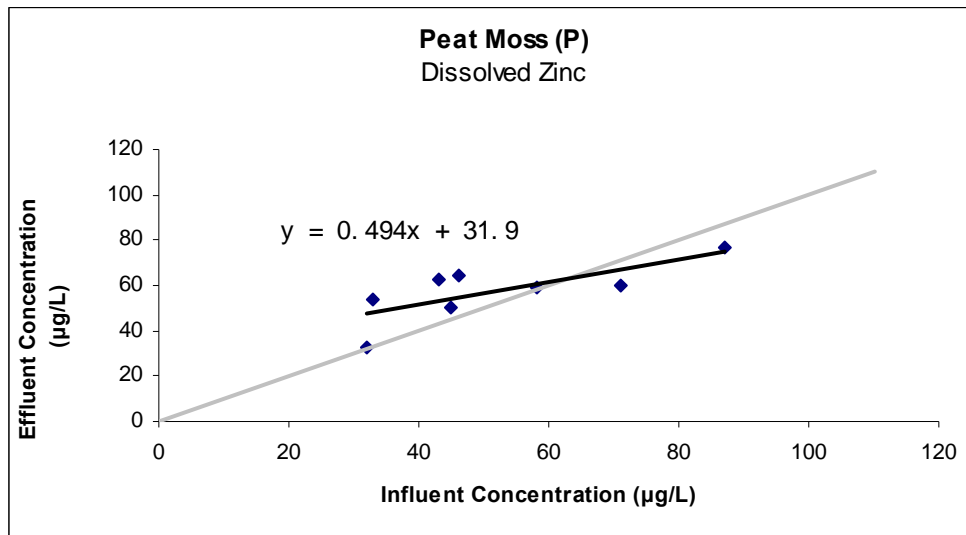
## ANOVA

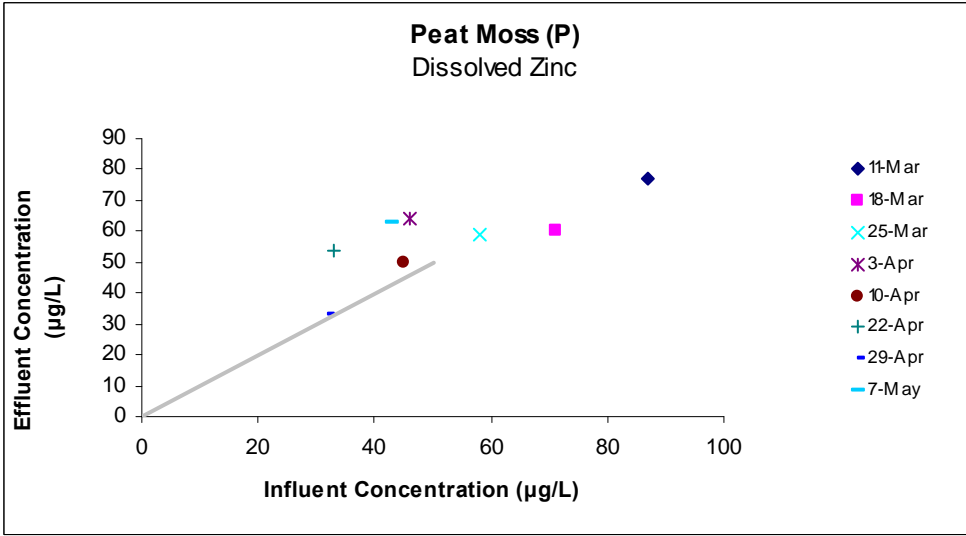
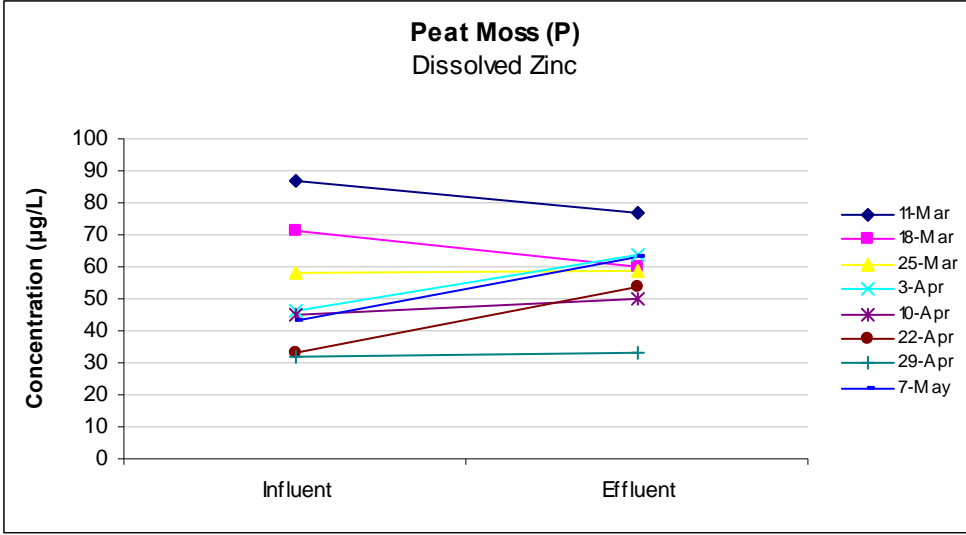
	df	SS	MS	F	Significance F
Regression	1.000	622.369	622.369	7.356	0.035
Residual	6.000	507.631	84.605		
Total	7.000	1130.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	31.867	9.995	3.188	0.019	7.410	56.323	7.410	56.323
X Variable 1	0.494	0.182	2.712	0.035	0.048	0.940	0.048	0.940

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	74.857	2.143
2	66.950	-6.950
3	60.527	-1.527
4	54.597	9.403
5	54.103	-4.103
6	48.173	5.827
7	47.679	-14.679
8	53.115	9.885





# Total K

Peat Moss

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.186
R Square	0.034
Adjusted R Square	-0.126
Standard Error	2080.945
Observations	8.000

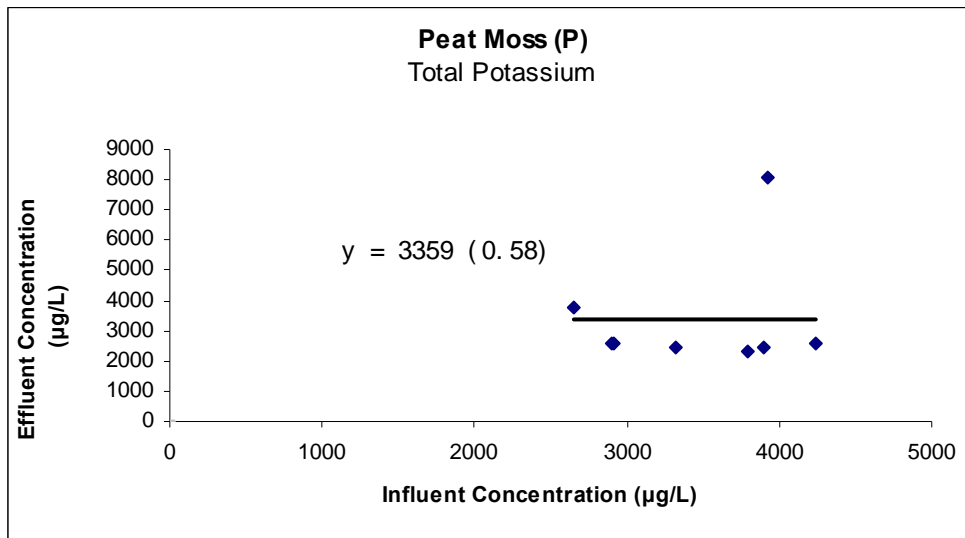
## ANOVA

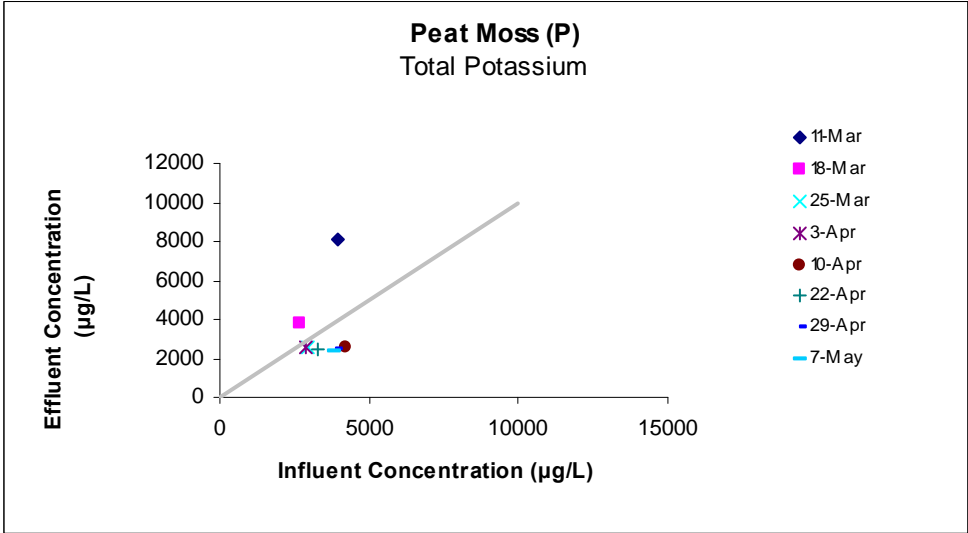
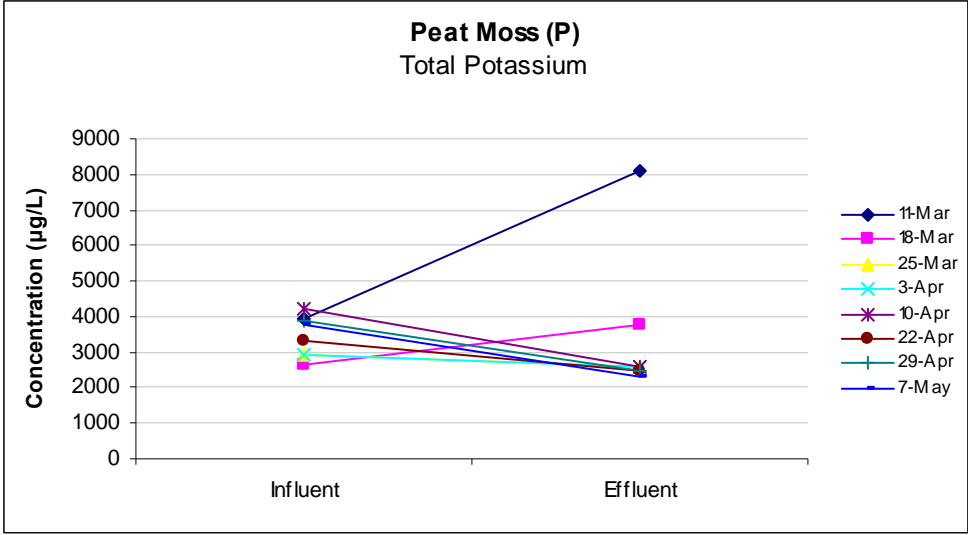
	df	SS	MS	F	Significance F
Regression	1.000	927673.752	927673.752	0.214	0.660
Residual	6.000	25981985.123	4330330.854		
Total	7.000	26909658.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	1213.210	4694.354	0.258	0.805	-10273.461	12699.880	-10273.461	12699.880
X Variable 1	0.621	1.342	0.463	0.660	-2.664	3.906	-2.664	3.906

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	3648.286	4436.714
2	2860.413	892.587
3	3025.071	-432.071
4	3015.751	-430.751
5	3847.119	-1264.119
6	3272.369	-796.369
7	3635.238	-1171.238
8	3568.753	-1234.753





# Dissolved K

Peat Moss

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.001
R Square	0.000
Adjusted R Square	-0.167
Standard Error	414.449
Observations	8.000

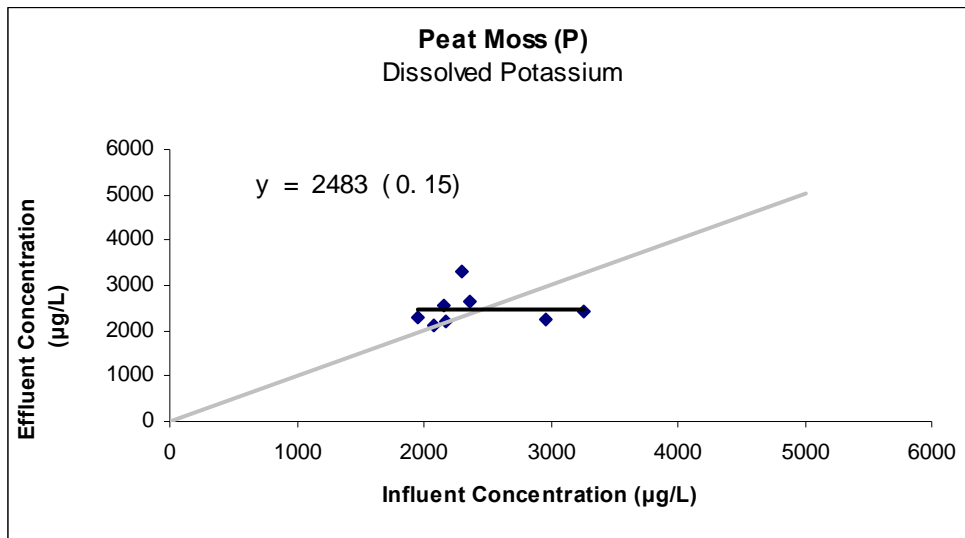
## ANOVA

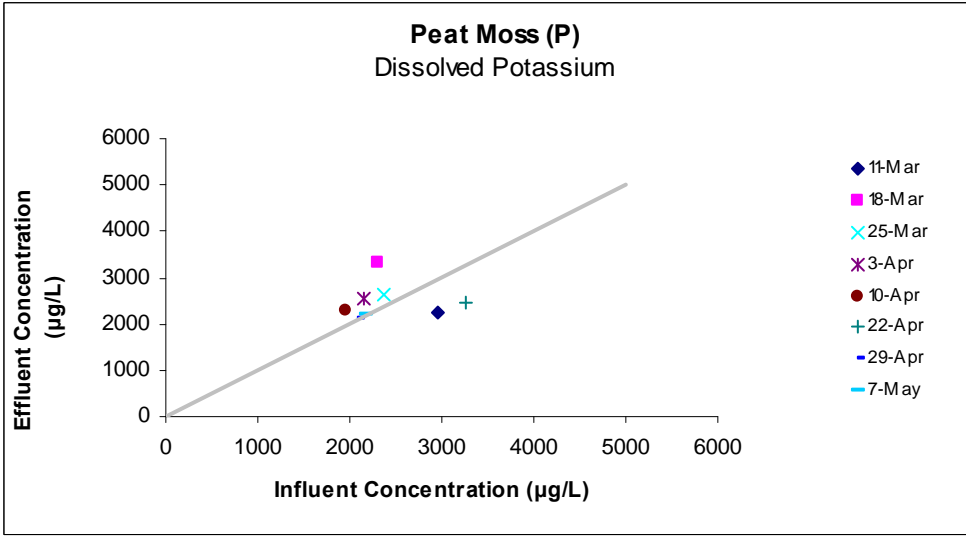
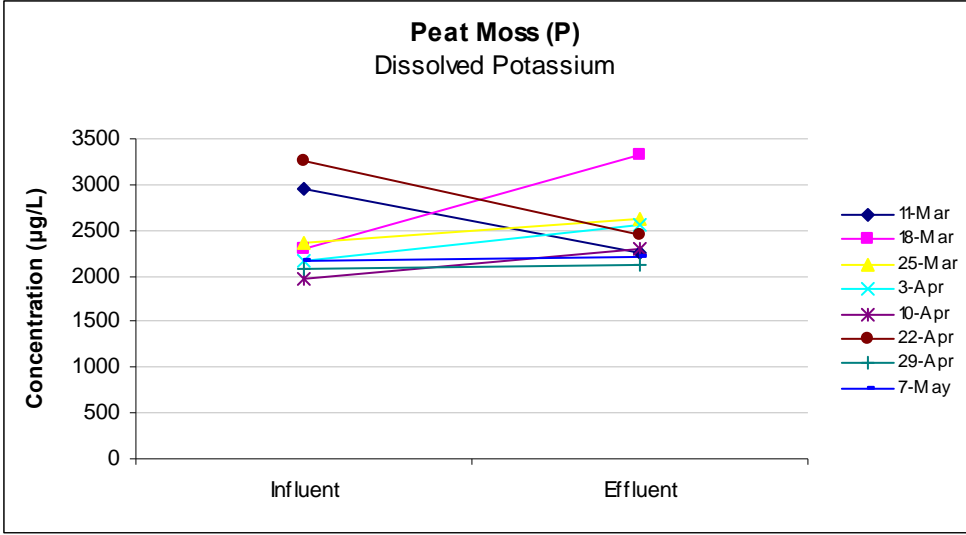
	df	SS	MS	F	Significance F
Regression	1.000	0.949	0.949	0.000	0.998
Residual	6.000	1030606.926	171767.821		
Total	7.000	1030607.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	2483.570	840.356	2.955	0.025	427.292	4539.848	427.292	4539.848
X Variable 1	-0.001	0.344	-0.002	0.998	-0.842	0.840	-0.842	0.840

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	2481.181	-225.181
2	2481.708	846.292
3	2481.656	151.344
4	2481.823	69.177
5	2481.986	-178.986
6	2480.940	-32.940
7	2481.888	-362.888
8	2481.816	-266.816





# Total Na

Peat Moss

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.292
R Square	0.085
Adjusted R Square	-0.067
Standard Error	6097.255
Observations	8.000

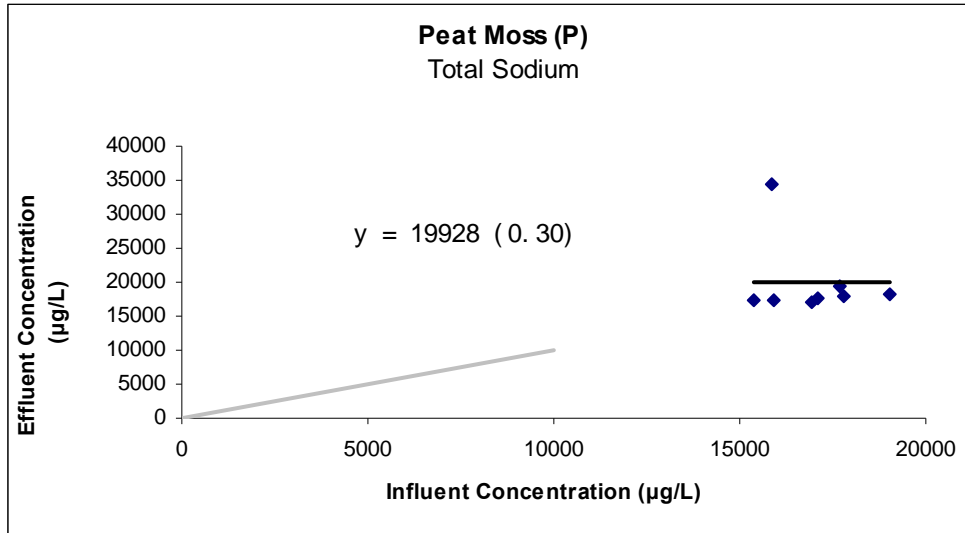
## ANOVA

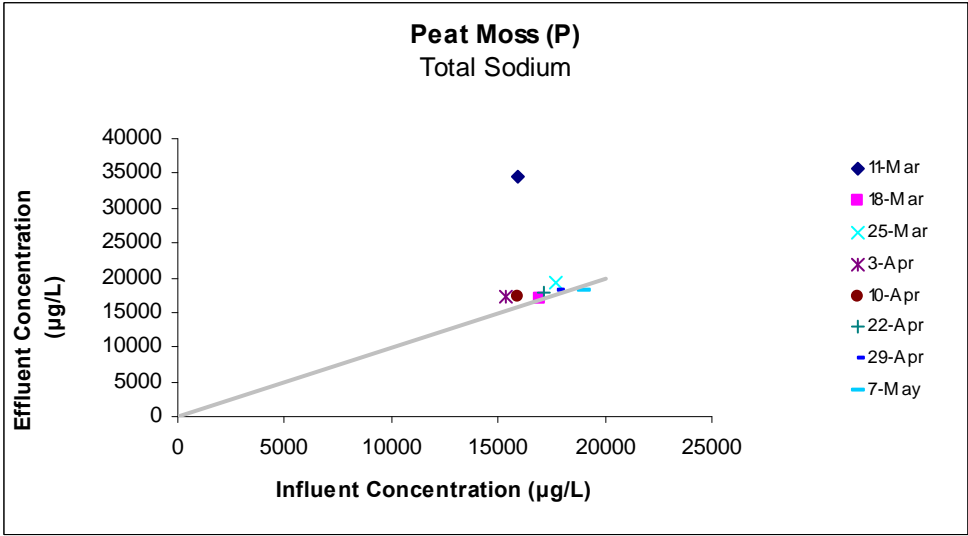
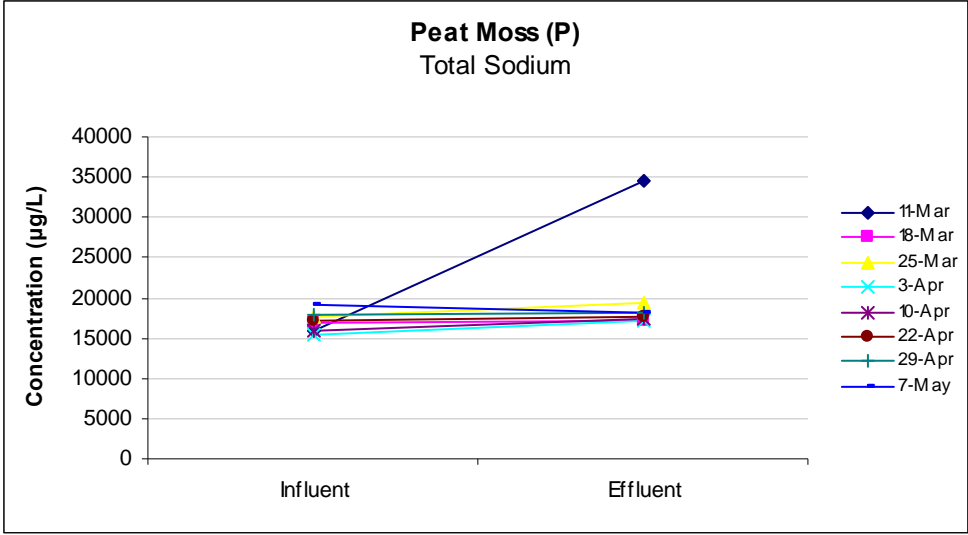
	df	SS	MS	F	Significance F
Regression	1.000	20818317.699	20818317.699	0.560	0.483
Residual	6.000	223059096.301	37176516.050		
Total	7.000	243877414.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	43941.358	32162.602	1.366	0.221	-34757.694	122640.410	-34757.694	122640.410
X Variable 1	-1.415	1.891	-0.748	0.483	-6.042	3.212	-6.042	3.212

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	21473.517	12946.483
2	20013.115	-2957.115
3	18916.398	504.602
4	22198.058	-4986.058
5	21385.780	-3984.780
6	19720.185	-1991.185
7	18721.111	-670.111
8	16991.836	1138.164







# Dissolved Na

Peat Moss

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.264
R Square	0.070
Adjusted R Square	-0.085
Standard Error	5677.878
Observations	8.000

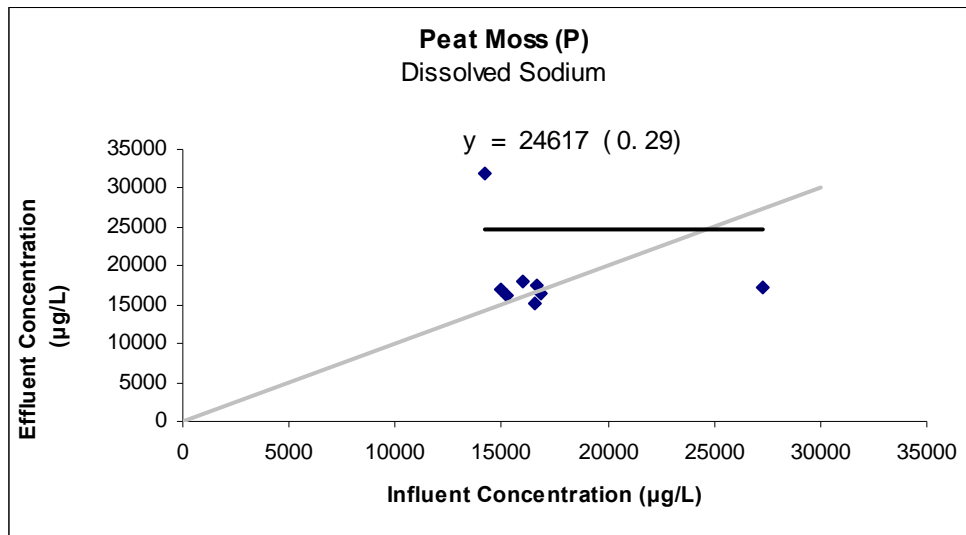
## ANOVA

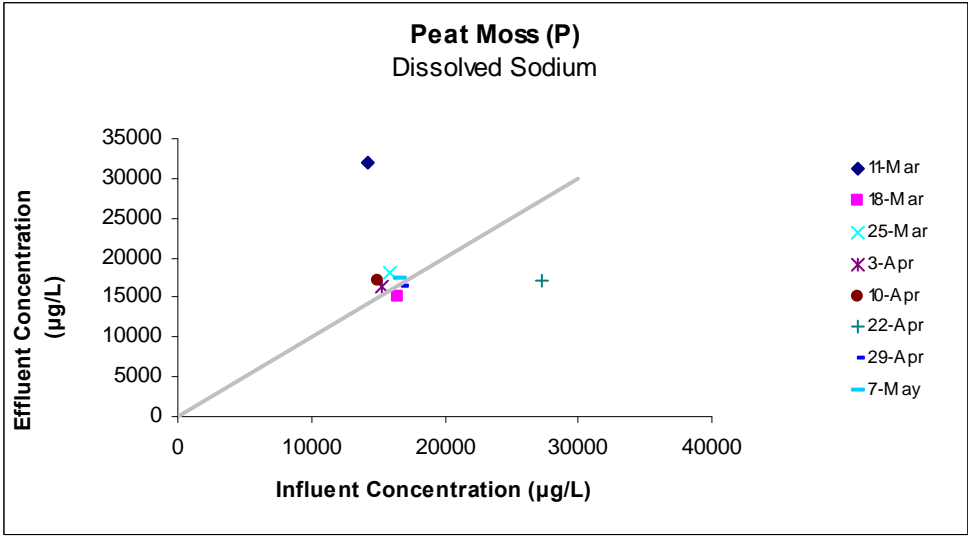
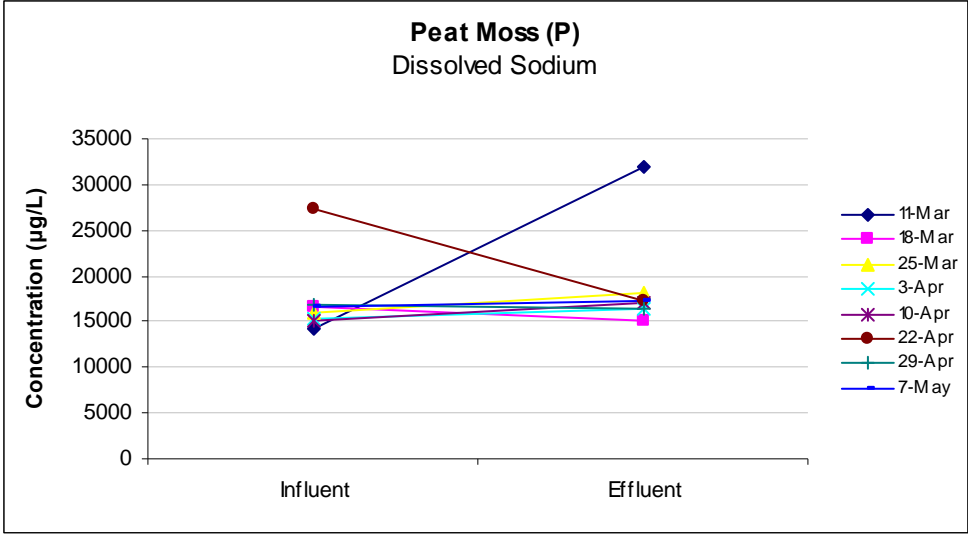
	df	SS	MS	F	Significance F
Regression	1.000	14504682.899	14504682.899	0.450	0.527
Residual	6.000	193429790.976	32238298.496		
Total	7.000	207934473.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	24617.206	9043.694	2.722	0.035	2488.083	46746.329	2488.083	46746.329
X Variable 1	-0.344	0.512	-0.671	0.527	-1.597	0.910	-1.597	0.910

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	19747.543	12266.457
2	18936.563	-3801.563
3	19134.497	-1048.497
4	19370.918	-3056.918
5	19461.638	-2393.638
6	15225.640	2007.360
7	18834.503	-2442.503
8	18907.697	-1530.697





# Total Cr

Peat Moss

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.111
R Square	0.012
Adjusted R Square	-0.235
Standard Error	9.254
Observations	6.000

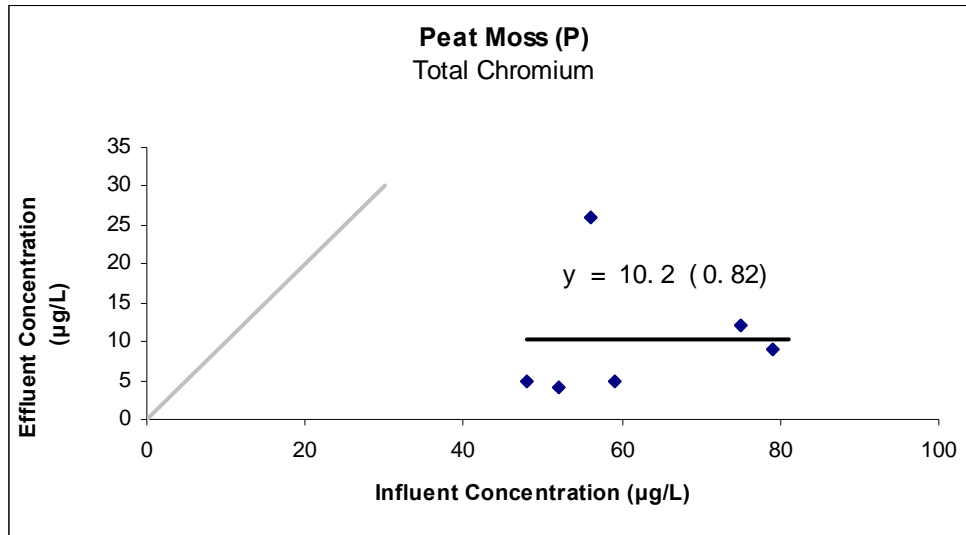
## ANOVA

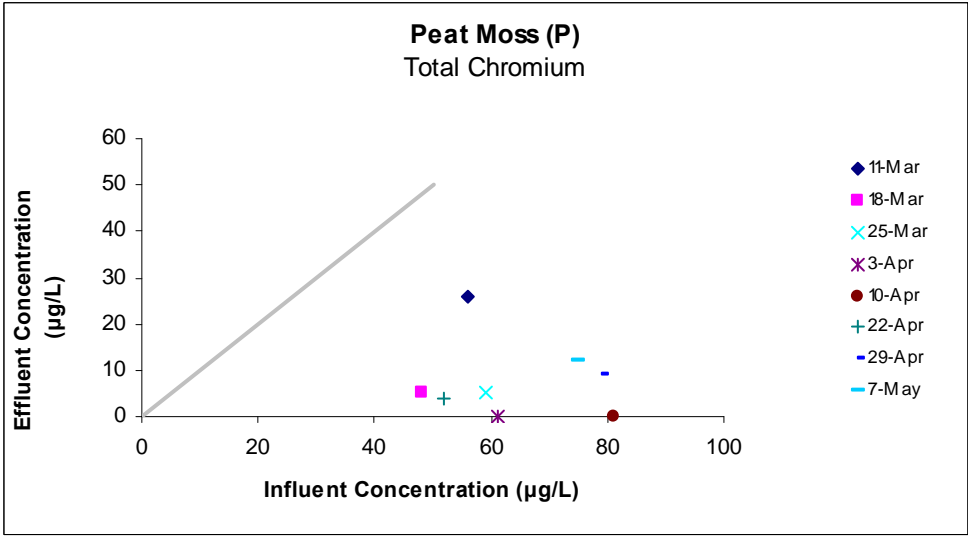
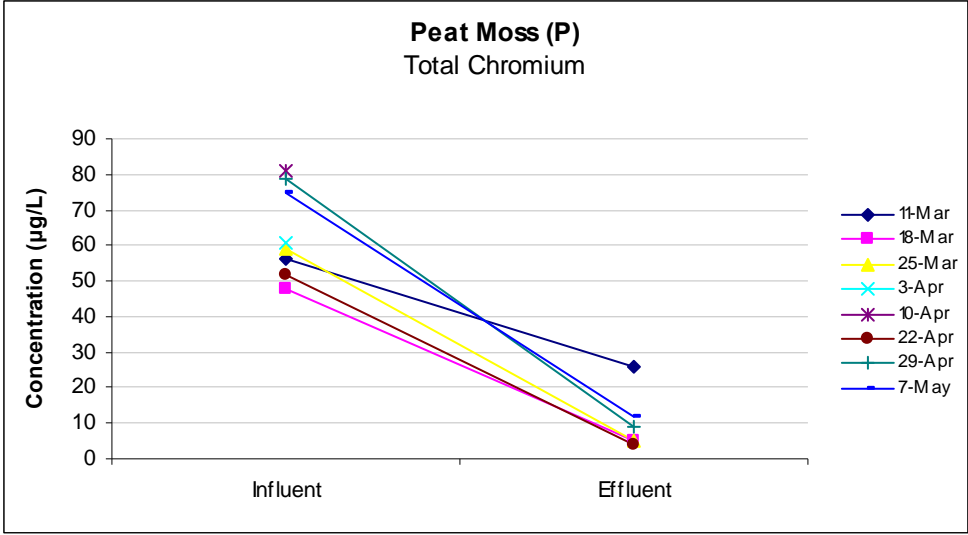
	df	SS	MS	F	Significance F
Regression	1.000	4.291	4.291	0.050	0.834
Residual	4.000	342.542	85.636		
Total	5.000	346.833			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	5.655	20.504	0.276	0.796	-51.273	62.583	-51.273	62.583
X Variable 1	0.073	0.328	0.224	0.834	-0.836	0.983	-0.836	0.983

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	9.763	16.237
2	9.176	-4.176
3	9.983	-4.983
4	9.470	-5.470
5	11.450	-2.450
6	11.157	0.843





# Dissolved Cr

Peat Moss

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.762
R Square	0.580
Adjusted R Square	0.475
Standard Error	2.309
Observations	6.000

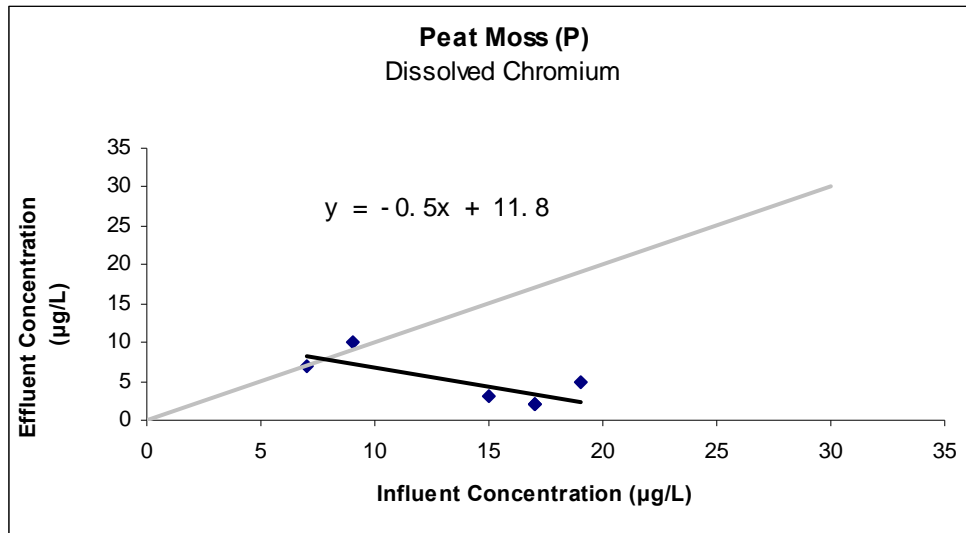
## ANOVA

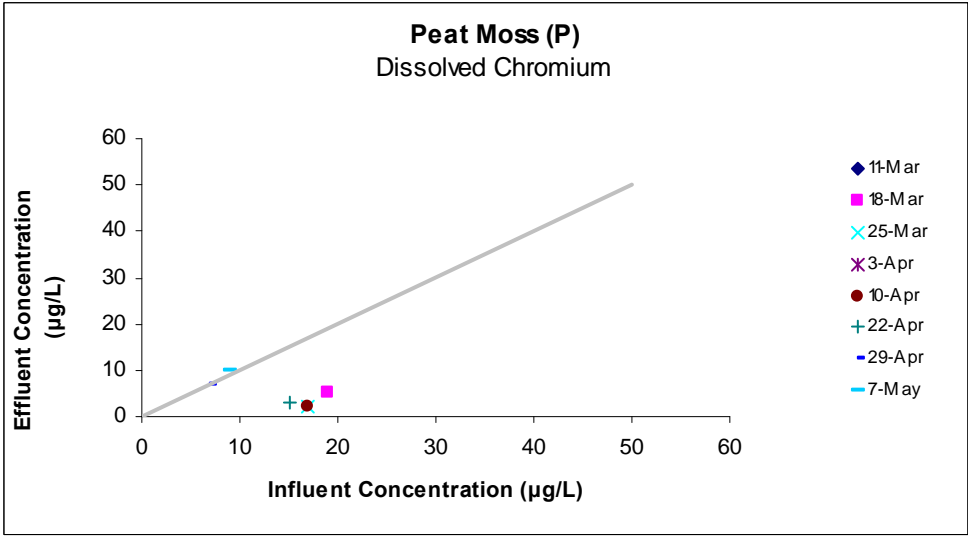
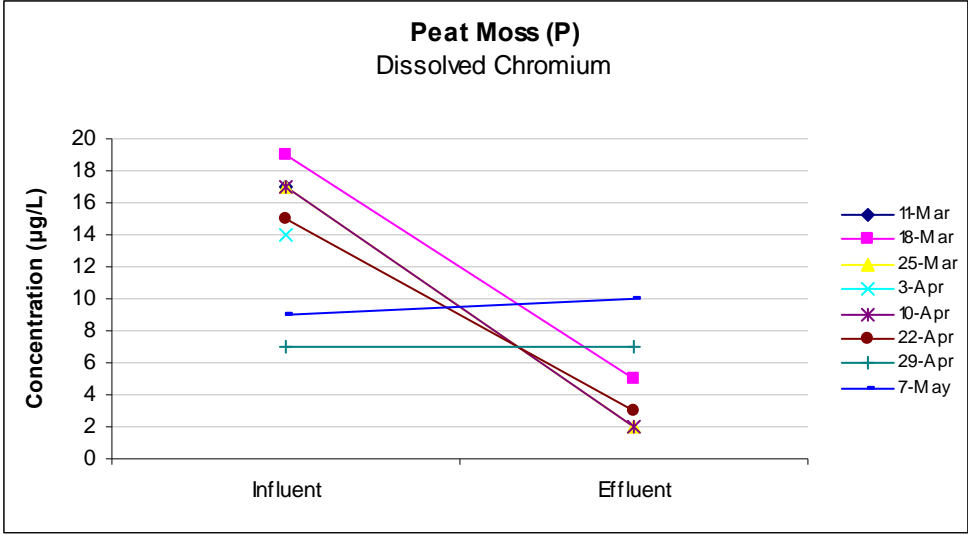
	df	SS	MS	F	Significance F
Regression	1.000	29.500	29.500	5.531	0.078
Residual	4.000	21.333	5.333		
Total	5.000	50.833			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	11.833	3.122	3.790	0.019	3.165	20.502	3.165	20.502
X Variable 1	-0.500	0.213	-2.352	0.078	-1.090	0.090	-1.090	0.090

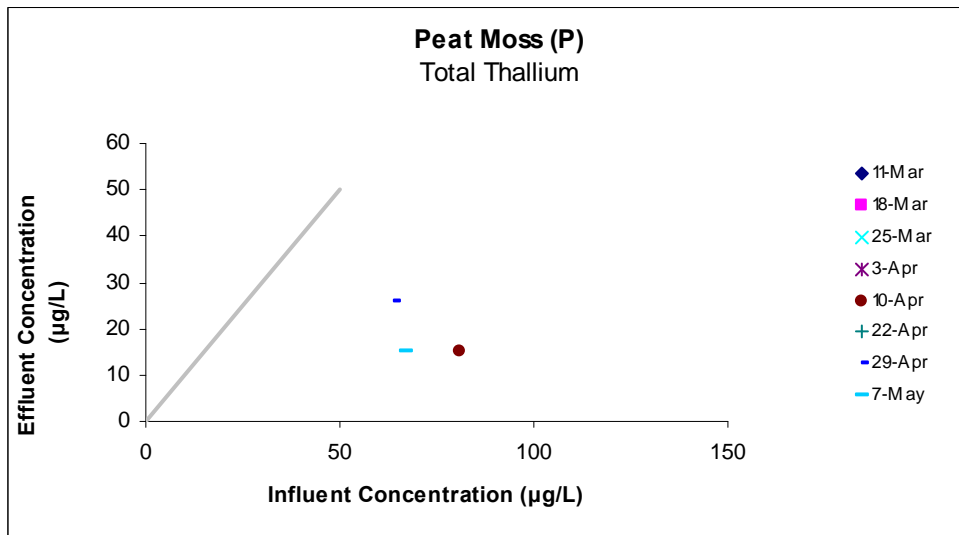
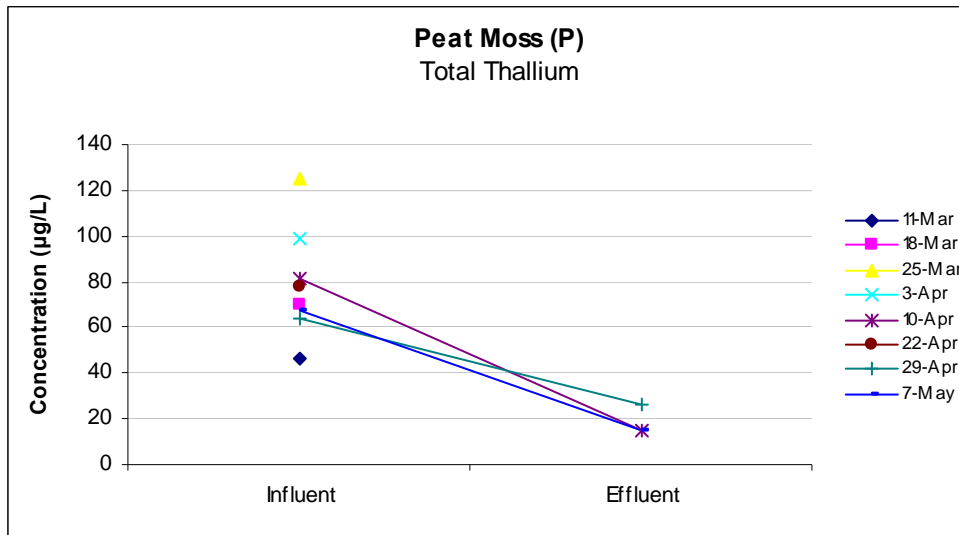
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	2.333	2.667
2	3.333	-1.333
3	3.333	-1.333
4	4.333	-1.333
5	8.333	-1.333
6	7.333	2.667

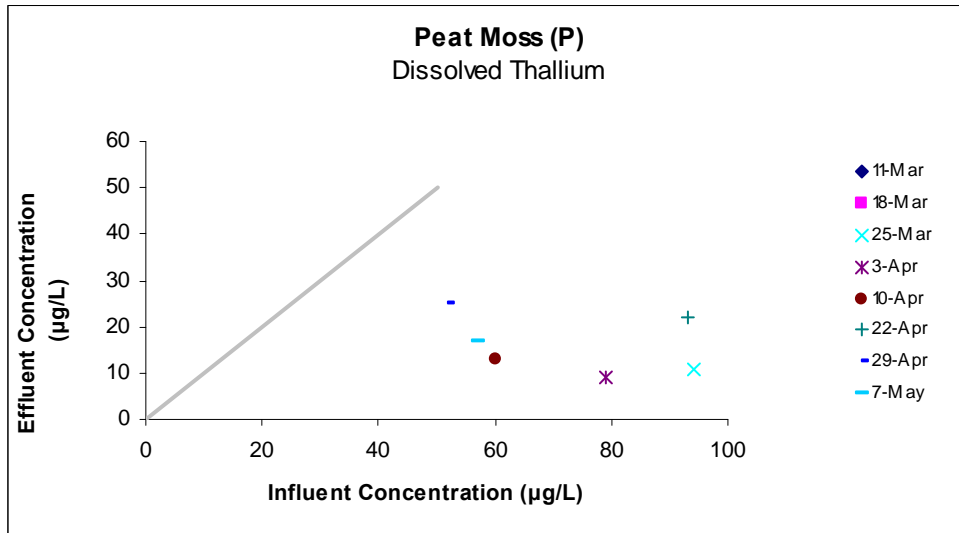
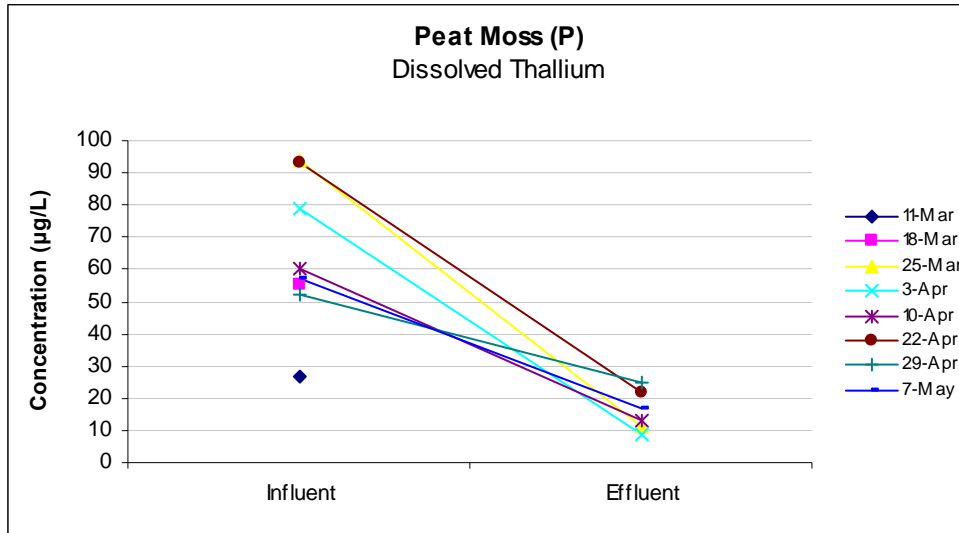




Total Tl



Dissolved Tl





# Total Sb

Peat Moss

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	1
R Square	1
Adjusted R Square	65535
Standard Error	0
Observations	2

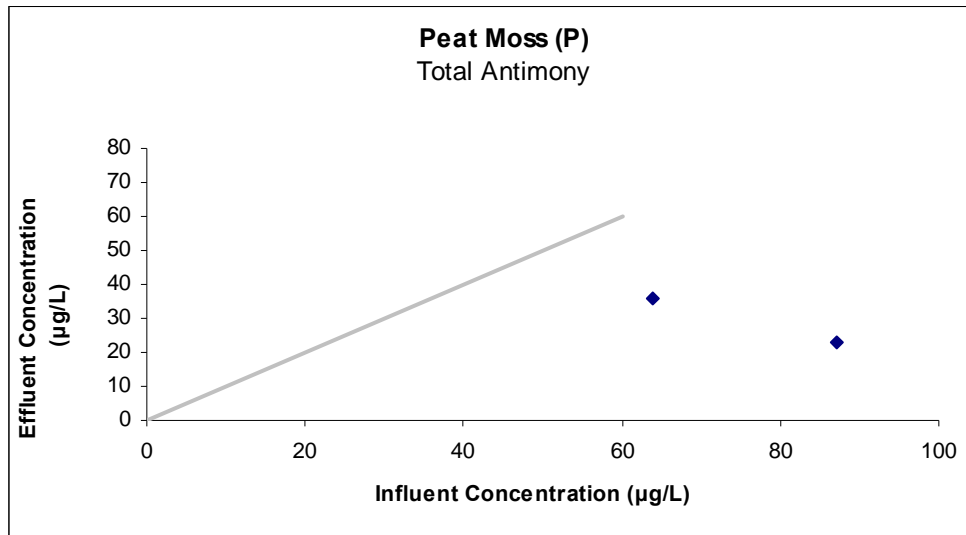
## ANOVA

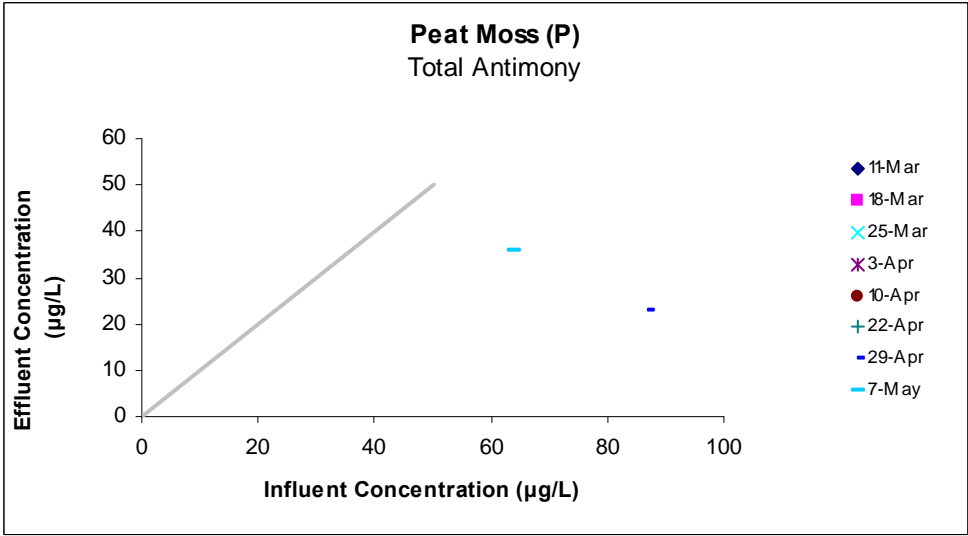
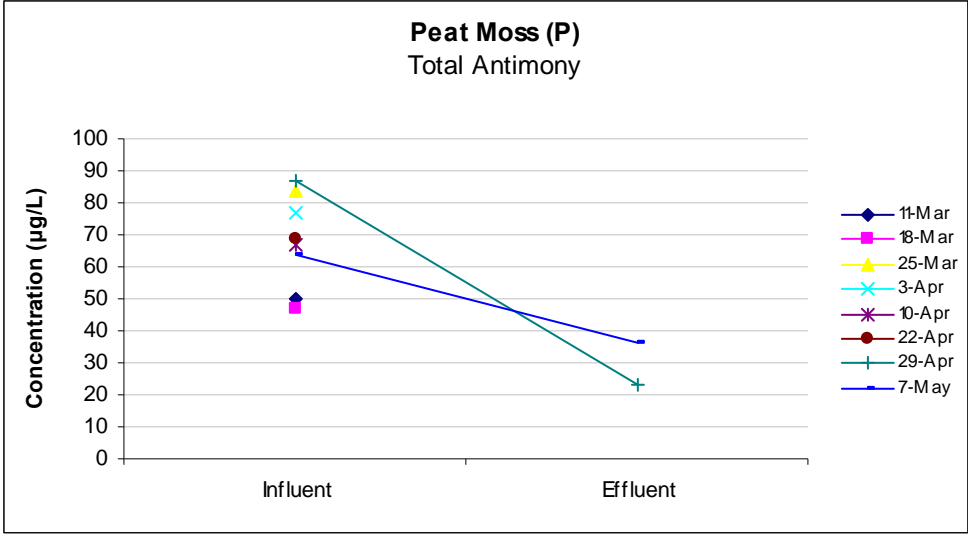
	df	SS	MS	F	Significance F
Regression	1	84.5	84.5	#NUM!	#NUM!
Residual	0	0	65535		
Total	1	84.5			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	72.17391304	0	65535	#NUM!	72.17391304	72.17391304	72.17391304	72.17391304
X Variable 1	-0.565217391	0	65535	#NUM!	-0.565217391	-0.565217391	-0.565217391	-0.565217391

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	23	0
2	36	0





# Dissolved Sb

Peat Moss

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	1
R Square	1
Adjusted R Square	65535
Standard Error	0
Observations	2

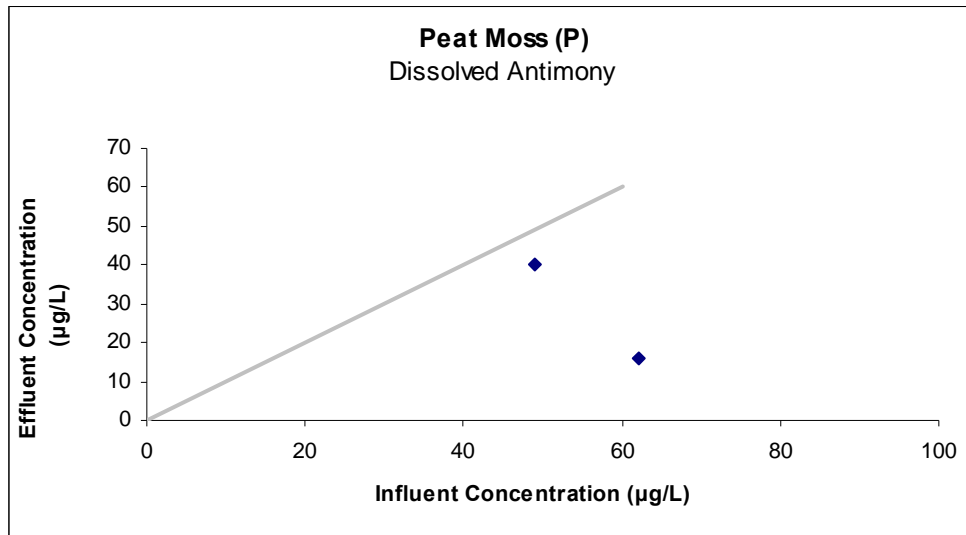
## ANOVA

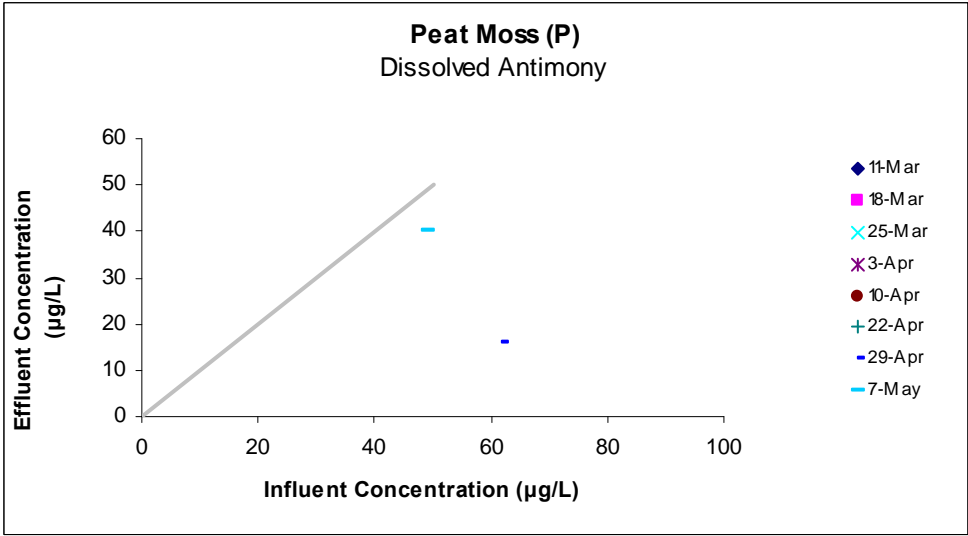
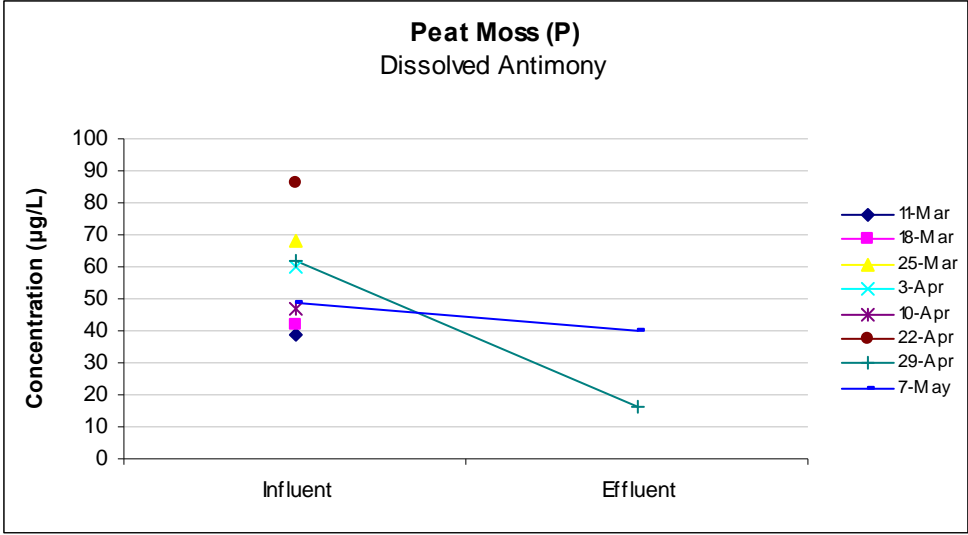
	df	SS	MS	F	Significance F
Regression	1	288	288	#NUM!	#NUM!
Residual	0	0	65535		
Total	1	288			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	130.4615385	0	65535	#NUM!	130.4615385	130.4615385	130.4615385	130.4615385
X Variable 1	-1.846153846	0	65535	#NUM!	-1.846153846	-1.846153846	-1.846153846	-1.846153846

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	16	0
2	40	0





## Rhyolite Sand (R)

### Total As

Rhyolite Sand

#### SUMMARY OUTPUT

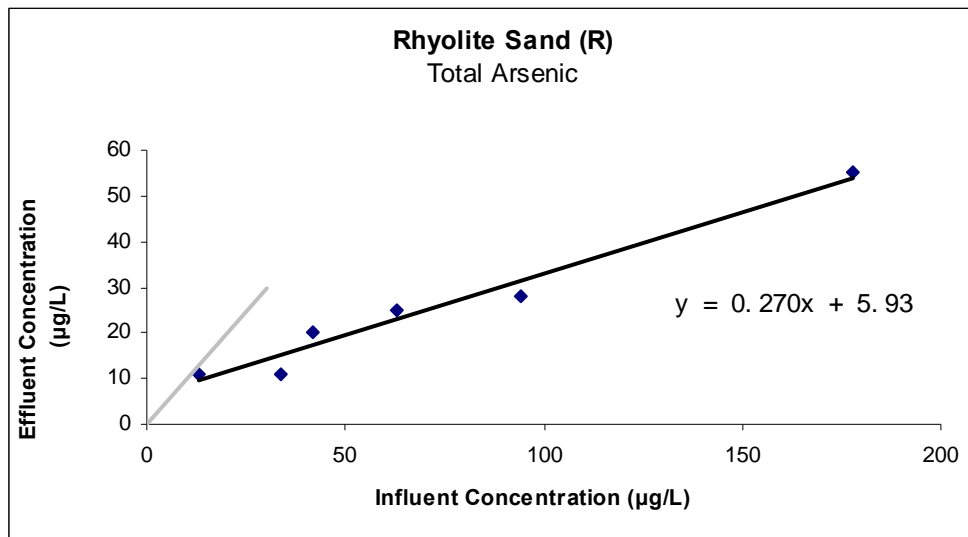
Regression Statistics	
Multiple R	0.984
R Square	0.968
Adjusted R Square	0.959
Standard Error	3.279
Observations	6.000

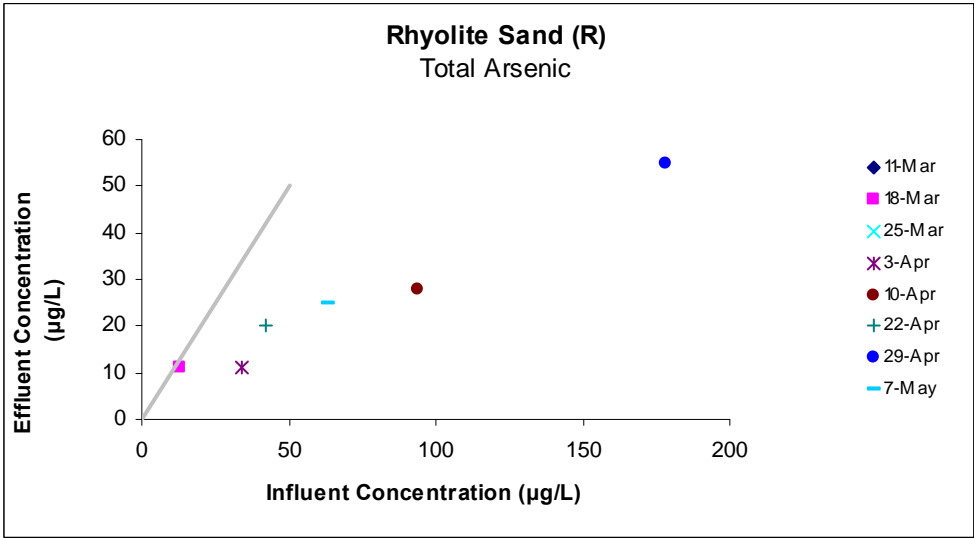
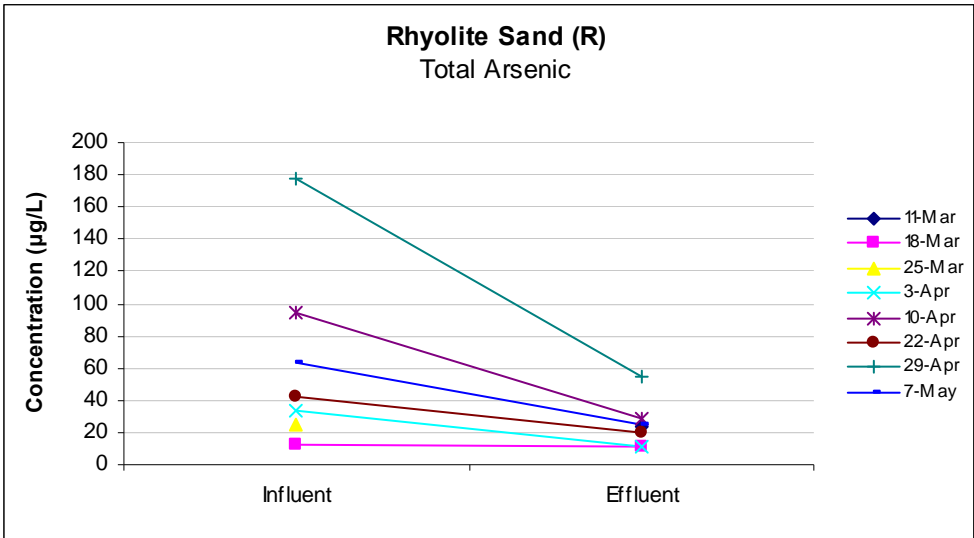
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	1283.002	1283.002	119.356	0.000
Residual	4.000	42.998	10.749		
Total	5.000	1326.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	5.929	2.200	2.695	0.054	-0.179	12.036	-0.179	12.036
X Variable 1	0.270	0.025	10.925	0.000	0.201	0.338	0.201	0.338

#### RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	9.437	1.563
2	15.104	-4.104
3	31.297	-3.297
4	17.263	2.737
5	53.967	1.033
6	22.931	2.069





# Dissolved As

Rhyolite Sand

## SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0.871
R Square	0.759
Adjusted R Square	0.699
Standard Error	5.708
Observations	6.000

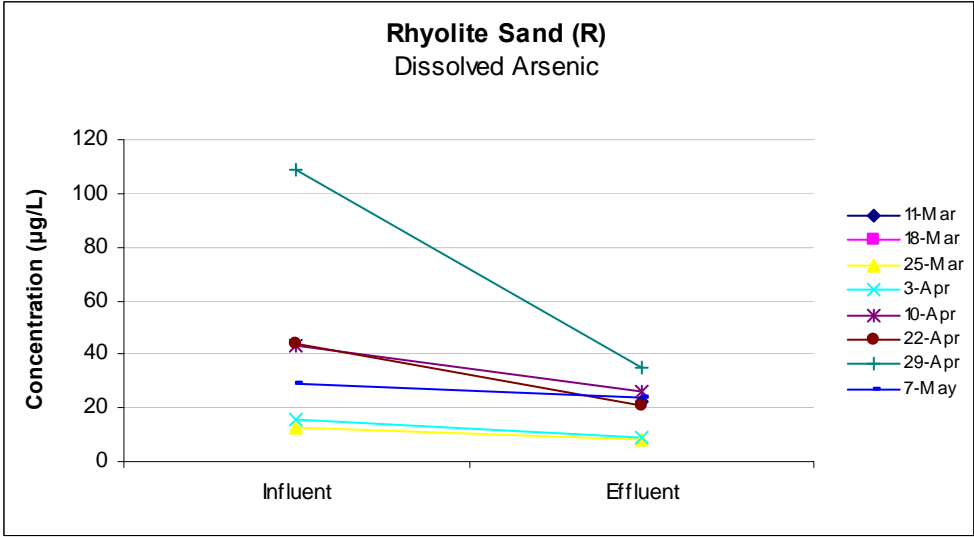
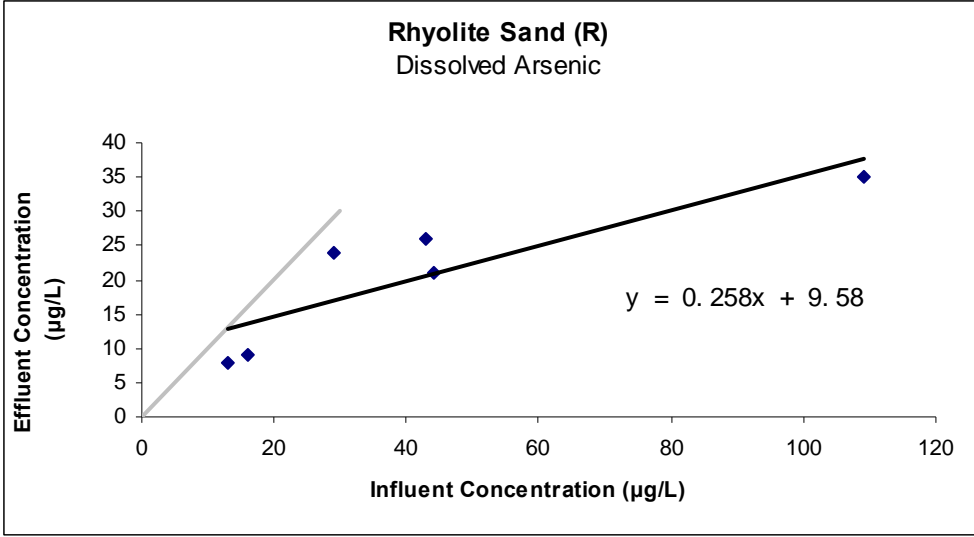
## ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1.000	411.183	411.183	12.621	0.024
Residual	4.000	130.317	32.579		
Total	5.000	541.500			

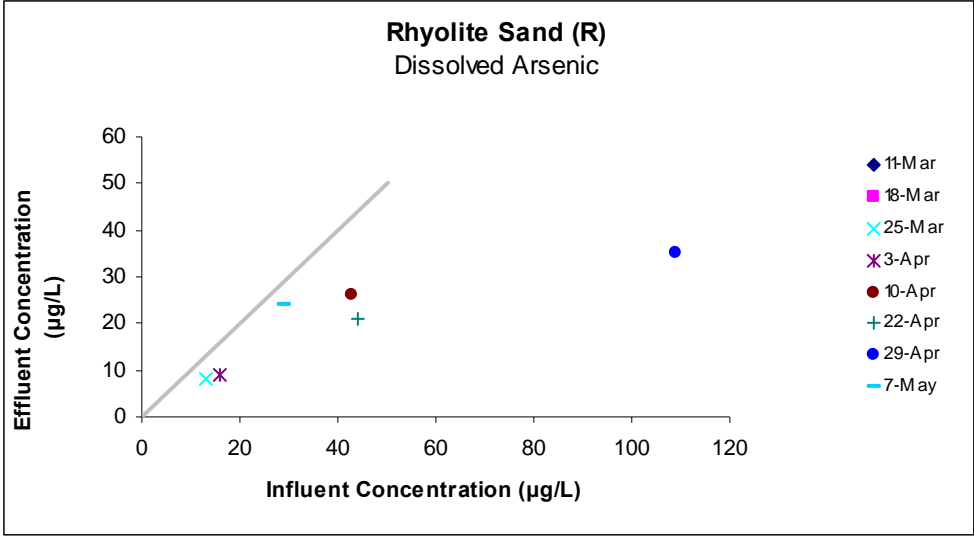
	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	9.580	3.857	2.484	0.068	-1.130	20.289	-1.130	20.289
X Variable 1	0.258	0.073	3.553	0.024	0.056	0.460	0.056	0.460

## RESIDUAL OUTPUT

<i>Observation</i>	<i>Predicted Y</i>	<i>Residuals</i>
1	12.933	-4.933
2	13.707	-4.707
3	20.672	5.328
4	20.930	0.070
5	37.697	-2.697
6	17.061	6.939







# Total Al

Rhyolite Sand

## SUMMARY OUTPUT

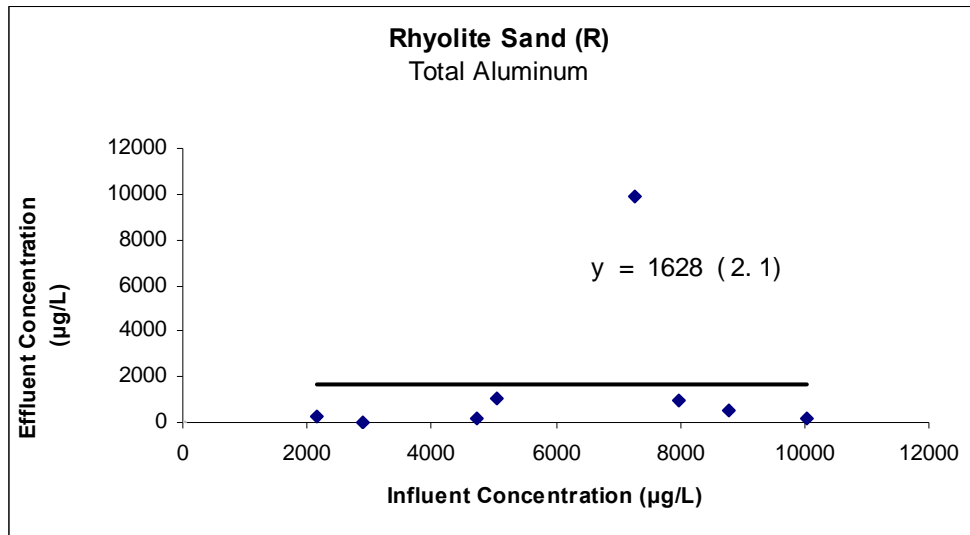
Regression Statistics	
Multiple R	0.196
R Square	0.038
Adjusted R Square	-0.122
Standard Error	3543.162
Observations	8.000

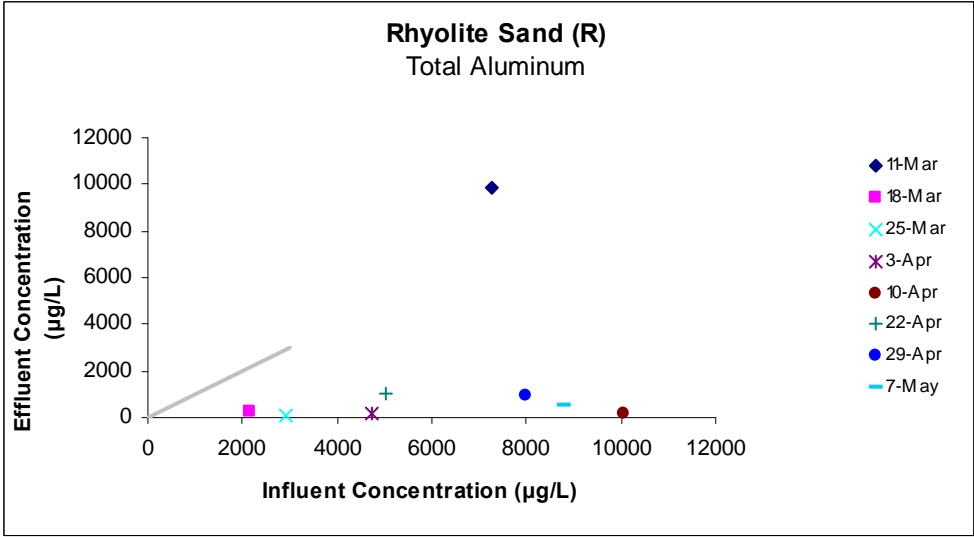
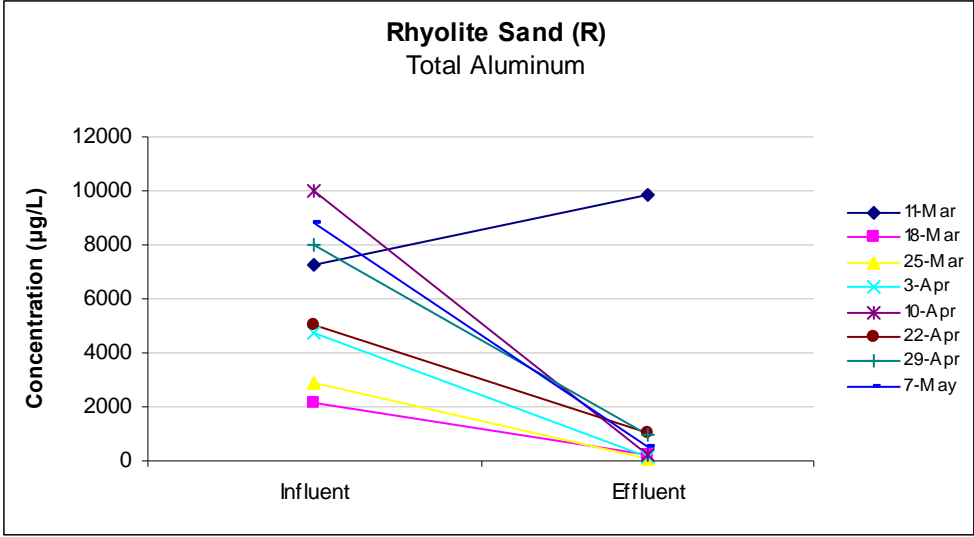
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	2994787.308	2994787.308	0.239	0.643
Residual	6.000	75323988.567	12553998.094		
Total	7.000	78318775.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	218.772	3146.668	0.070	0.947	-7480.848	7918.393	-7480.848	7918.393
X Variable 1	0.231	0.472	0.488	0.643	-0.925	1.386	-0.925	1.386

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	1896.310	7959.690
2	715.693	-472.693
3	889.557	-846.557
4	1309.691	-1143.691
5	2533.198	-2335.198
6	1382.327	-348.327
7	2059.337	-1100.337
8	2242.886	-1712.886





# Dissolved Al

Rhyolite Sand

## SUMMARY OUTPUT

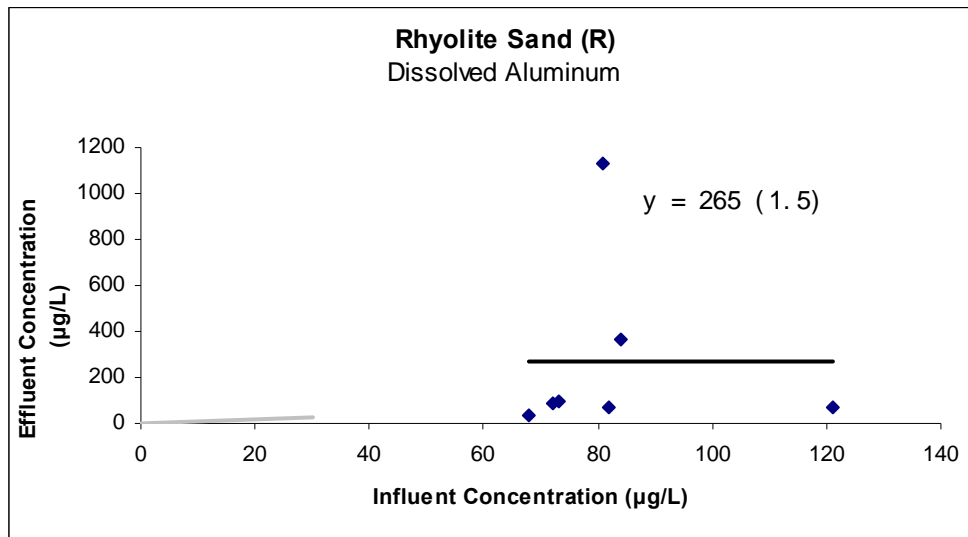
Regression Statistics	
Multiple R	0.044
R Square	0.002
Adjusted R Square	-0.198
Standard Error	434.909
Observations	7.000

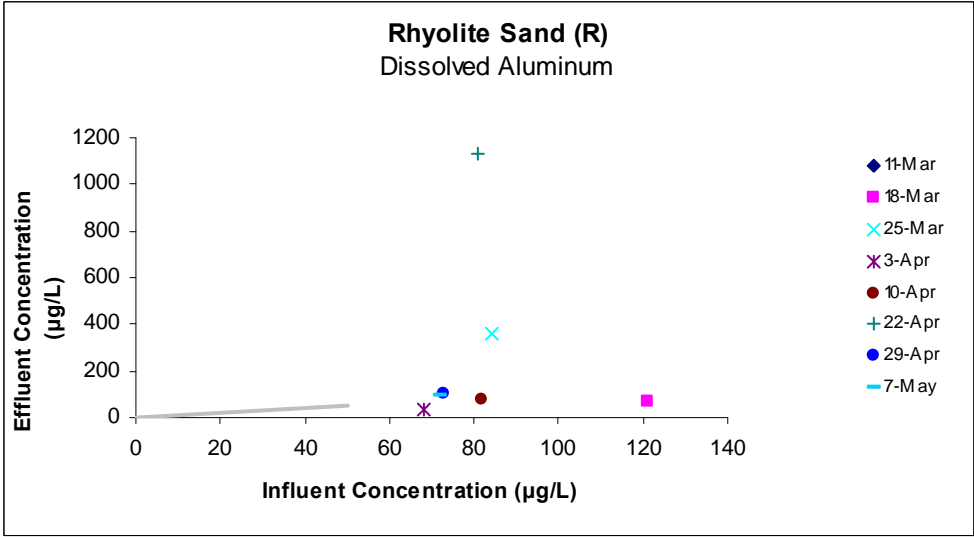
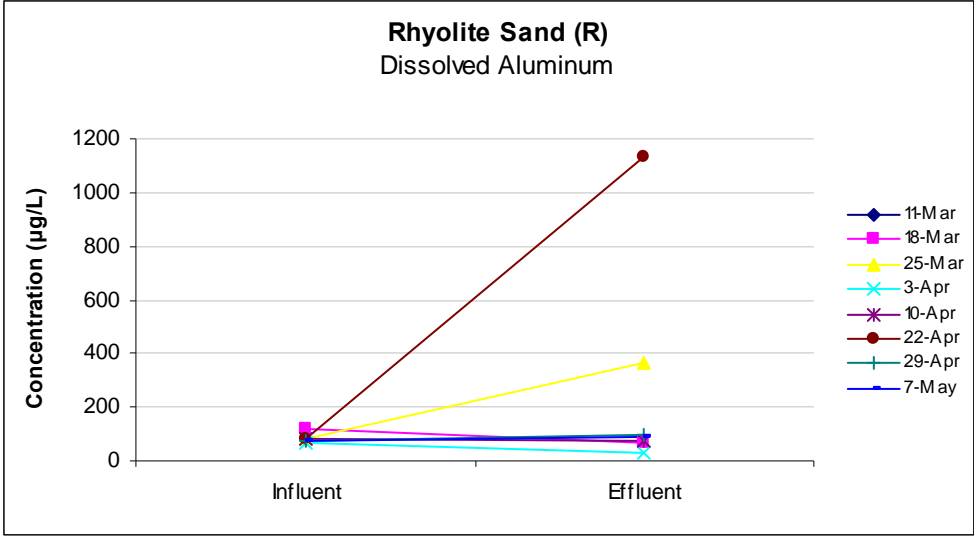
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	1820.762	1820.762	0.010	0.926
Residual	5.000	945728.953	189145.791		
Total	6.000	947549.714			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	346.765	845.145	0.410	0.699	-1825.750	2519.280	-1825.750	2519.280
X Variable 1	-0.980	9.988	-0.098	0.926	-26.655	24.695	-26.655	24.695

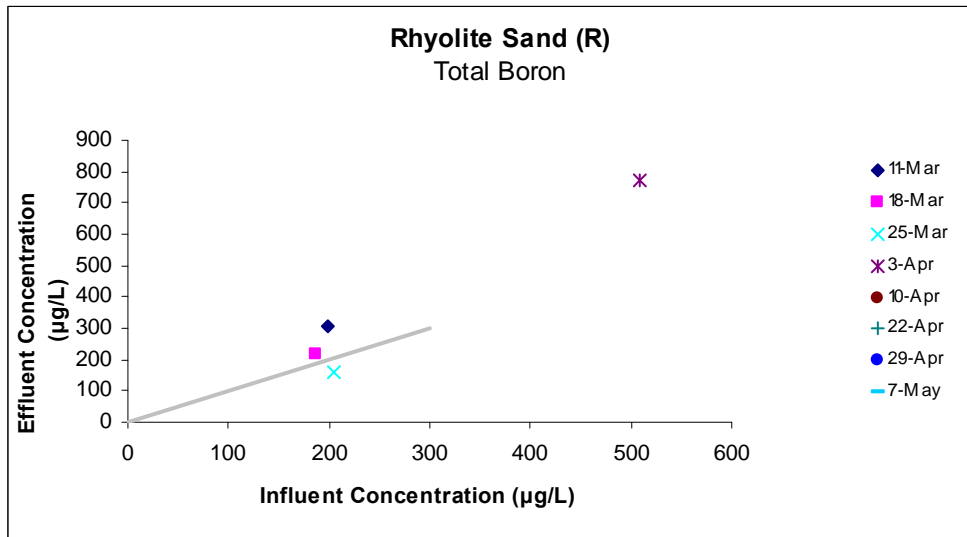
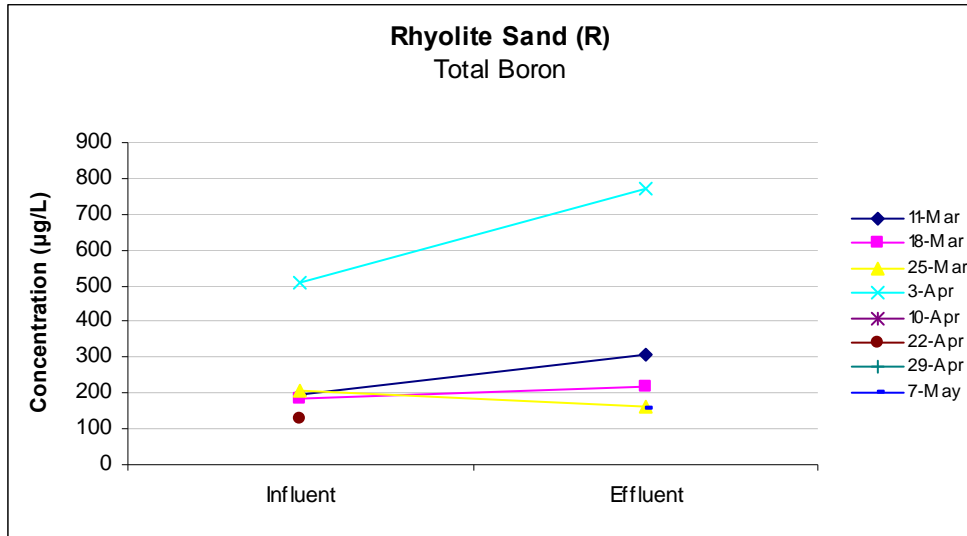
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	228.190	-160.190
2	264.449	99.551
3	280.128	-248.128
4	266.409	-193.409
5	267.388	863.612
6	275.228	-176.228
7	276.208	-185.208

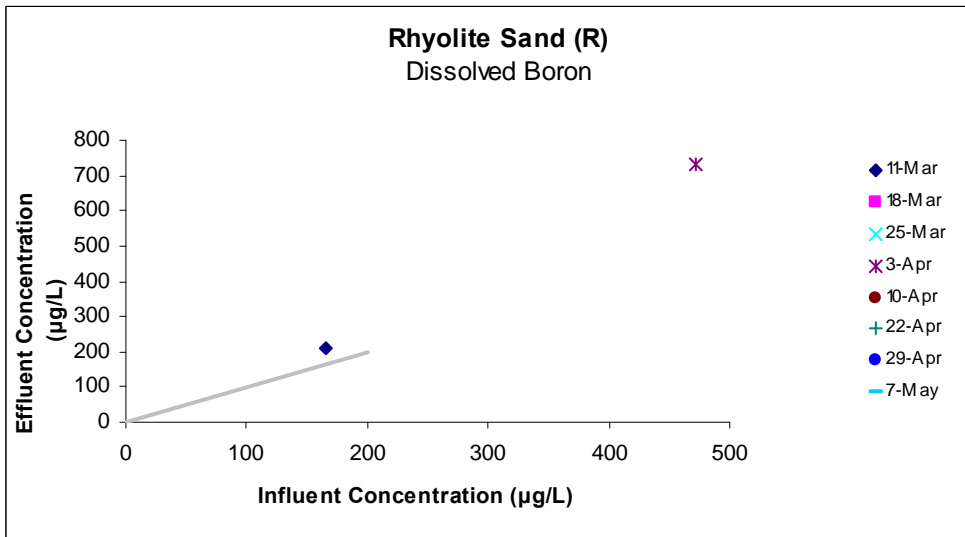
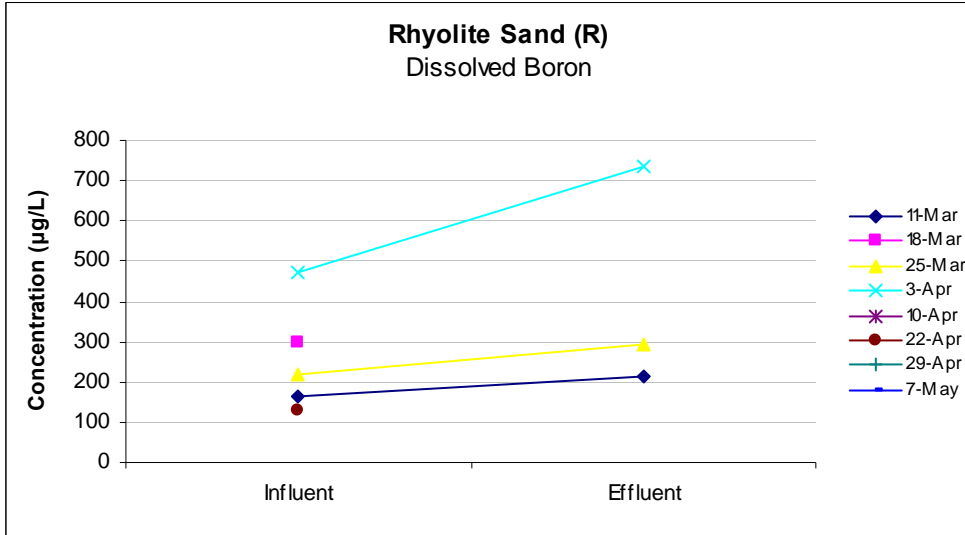




Total B



Dissolved B



# Total Ca

Rhyolite Sand

## SUMMARY OUTPUT

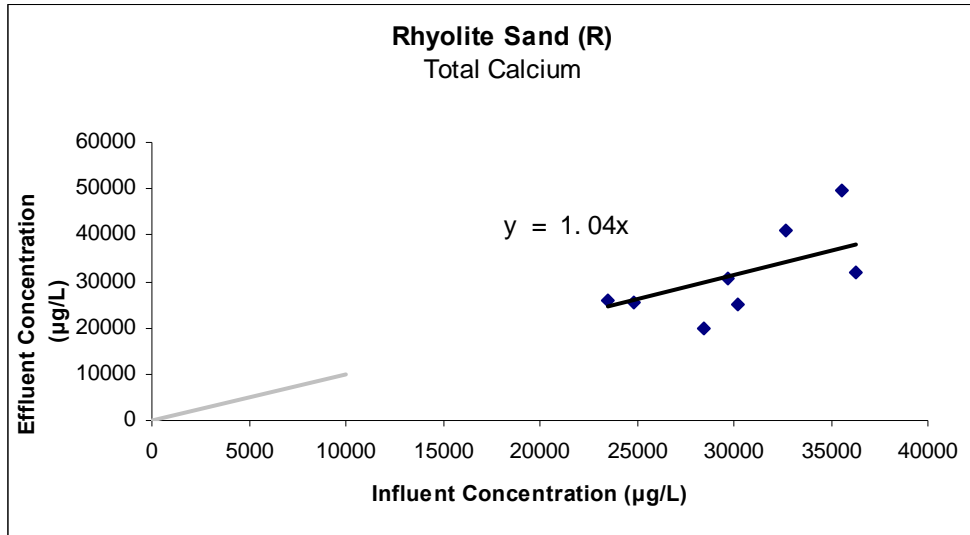
Regression Statistics	
Multiple R	0.977
R Square	0.955
Adjusted R Square	0.812
Standard Error	7372.705
Observations	8.000

ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	8092916877.716	8092916877.716	148.885	0.000
Residual	7.000	380497403.284	54356771.898		
Total	8.000	8473414281.000			

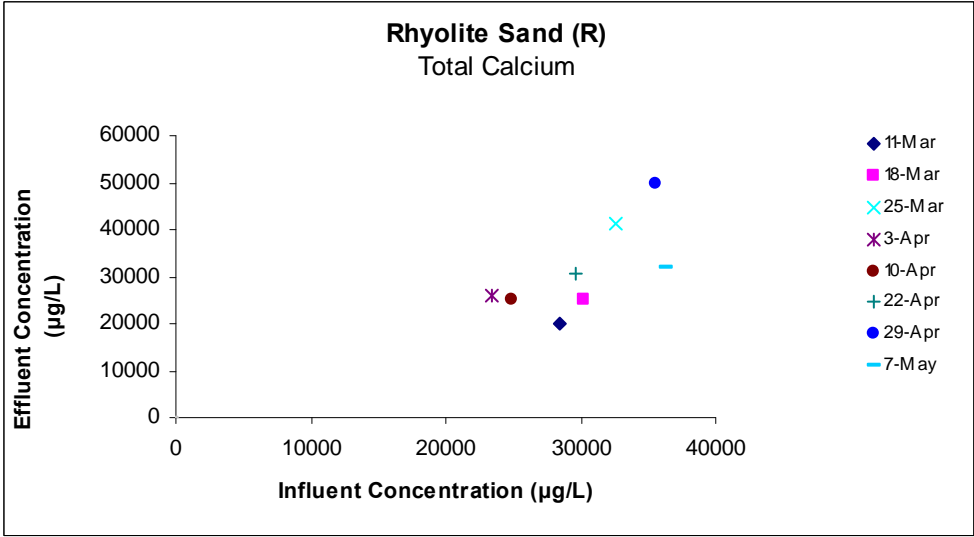
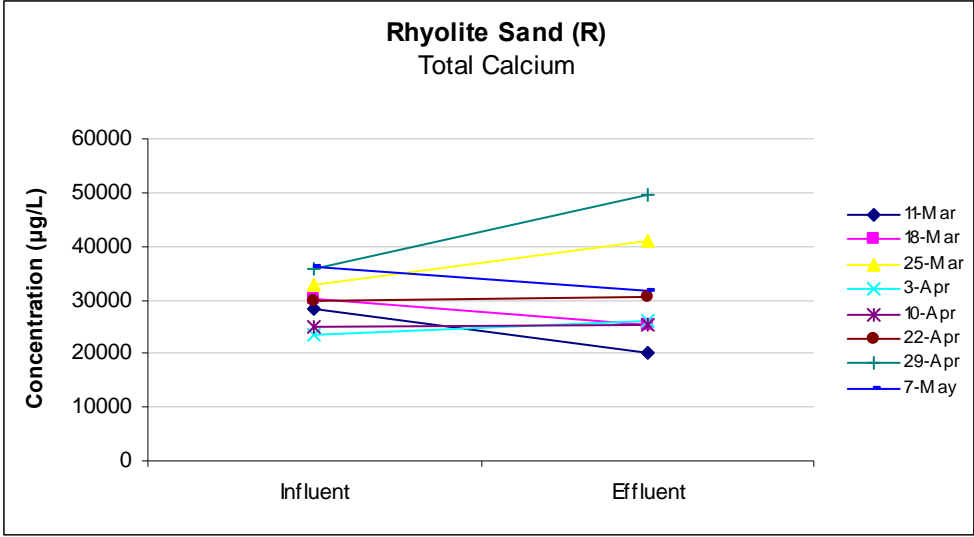
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	1.045	0.086	12.202	0.000	0.842	1.247	0.842	1.247

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	29686.416	-9662.416
2	31555.070	-6320.070
3	34091.174	7041.826
4	24526.468	1548.532
5	25973.133	-694.133
6	30980.581	-250.581
7	37185.054	12534.946
8	37881.751	-6126.751







# Dissolved Ca

Rhyolite Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.413
R Square	0.171
Adjusted R Square	0.032
Standard Error	6913.299
Observations	8.000

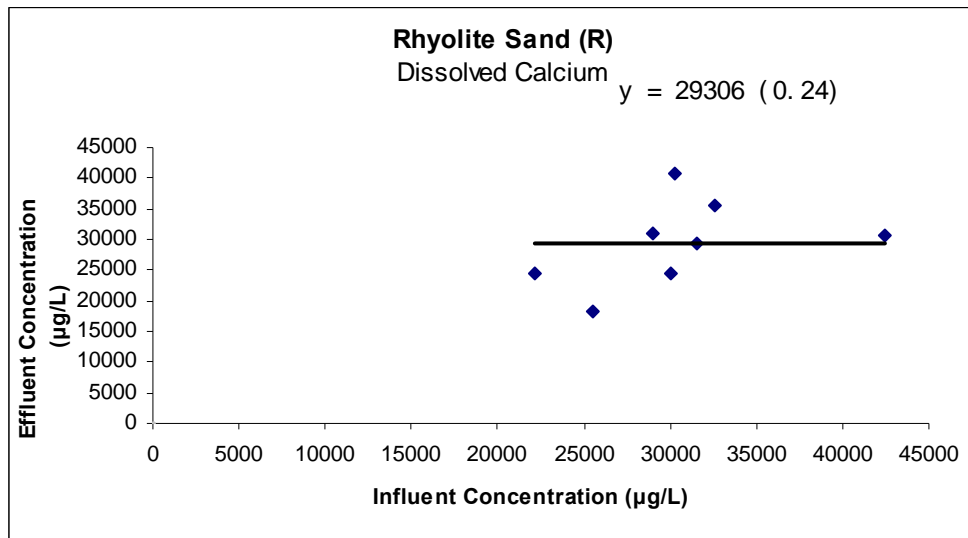
## ANOVA

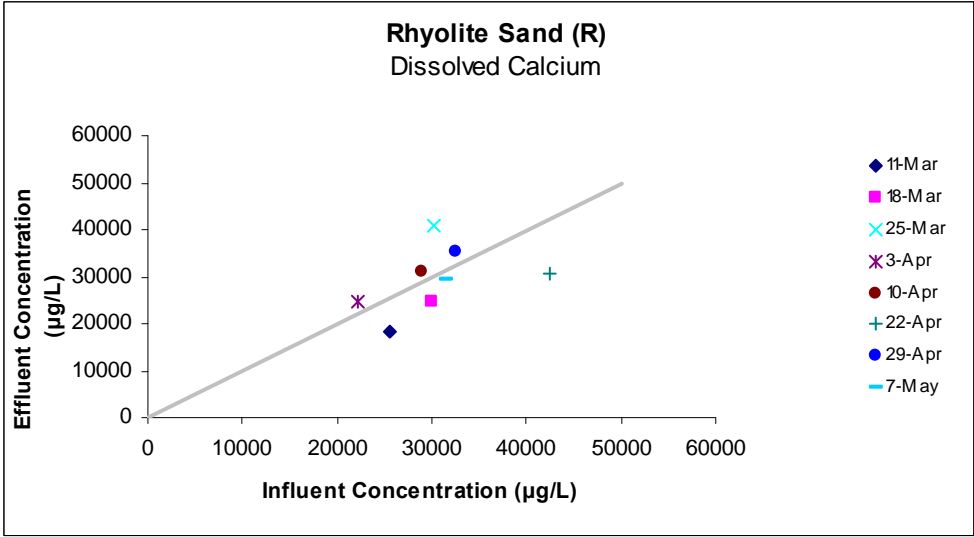
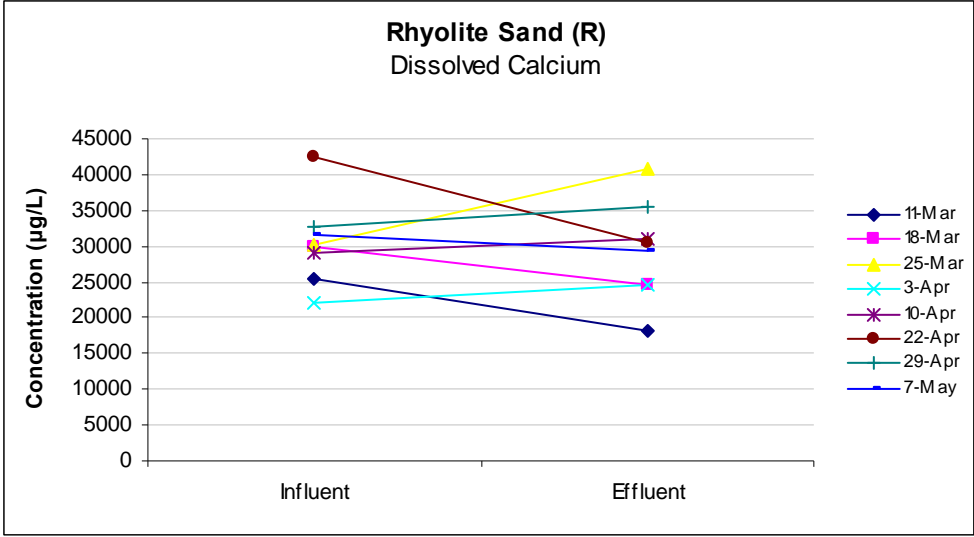
	df	SS	MS	F	Significance F
Regression	1.000	59031754.648	59031754.648	1.235	0.309
Residual	6.000	286762223.352	47793703.892		
Total	7.000	345793978.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	14363.778	13664.829	1.051	0.334	-19072.854	47800.409	-19072.854	47800.409
X Variable 1	0.491	0.442	1.111	0.309	-0.590	1.572	-0.590	1.572

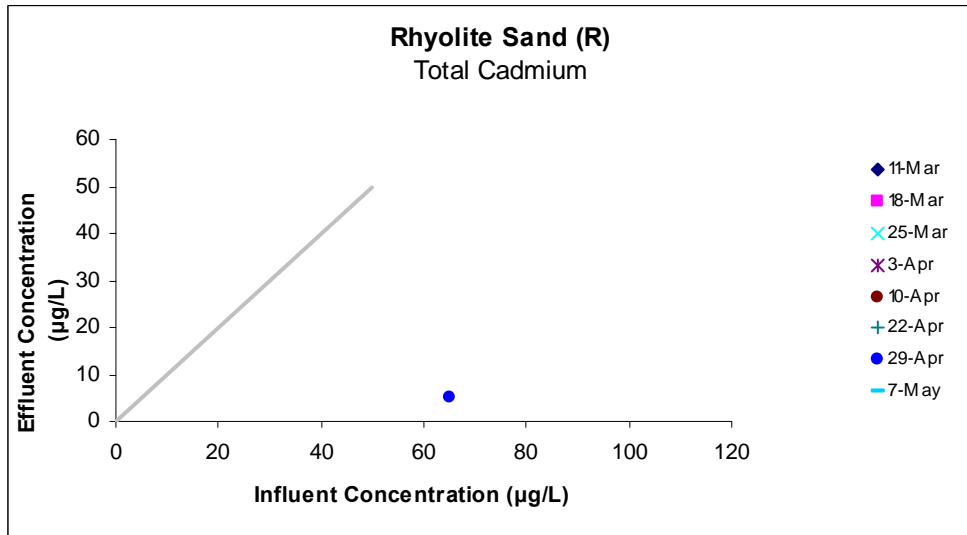
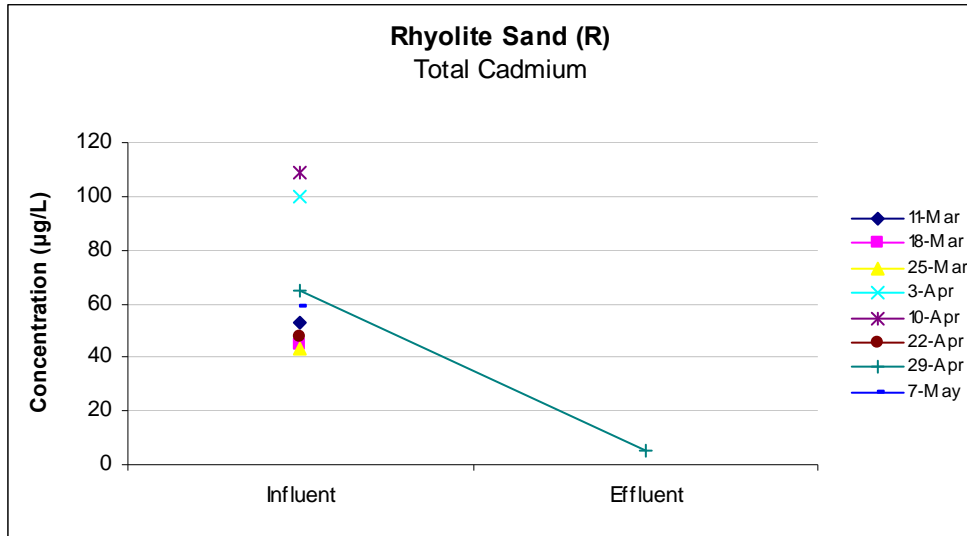
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	26886.037	-8687.037
2	29086.921	-4569.921
3	29225.398	11644.602
4	25239.056	-728.056
5	28588.997	2408.003
6	35189.196	-4689.196
7	30386.730	5123.270
8	29841.665	-501.665

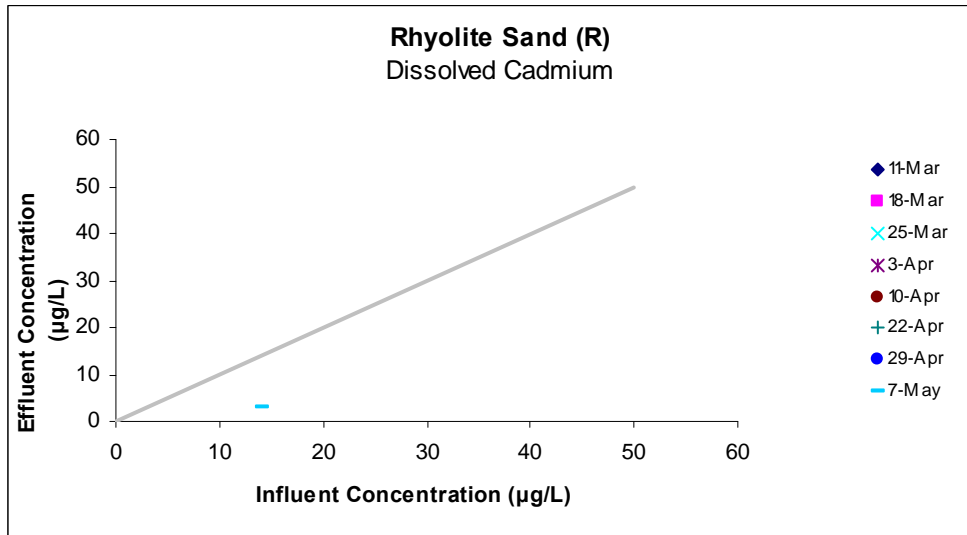
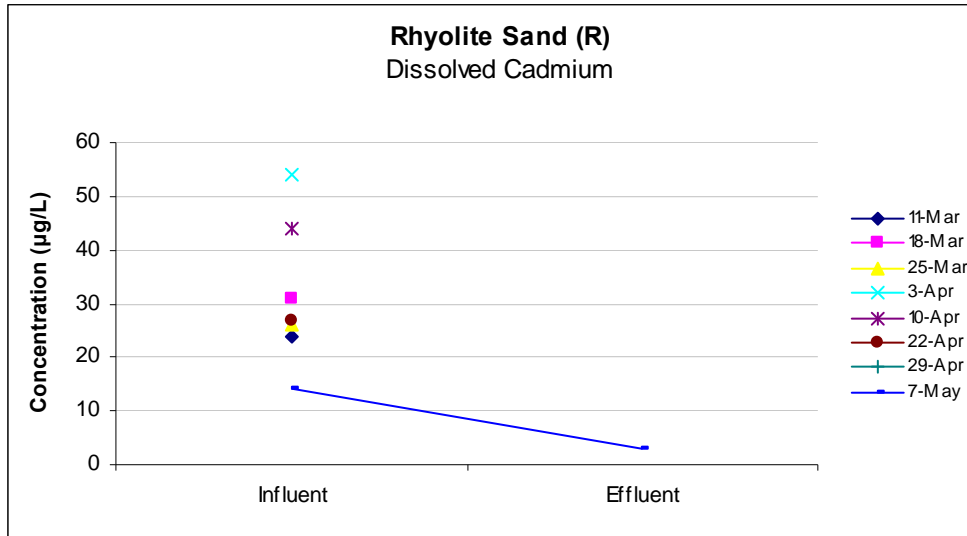




Total Cd



Dissolved Cd



# Total Cu

Rhyolite Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.138
R Square	0.019
Adjusted R Square	-0.144
Standard Error	14.855
Observations	8.000

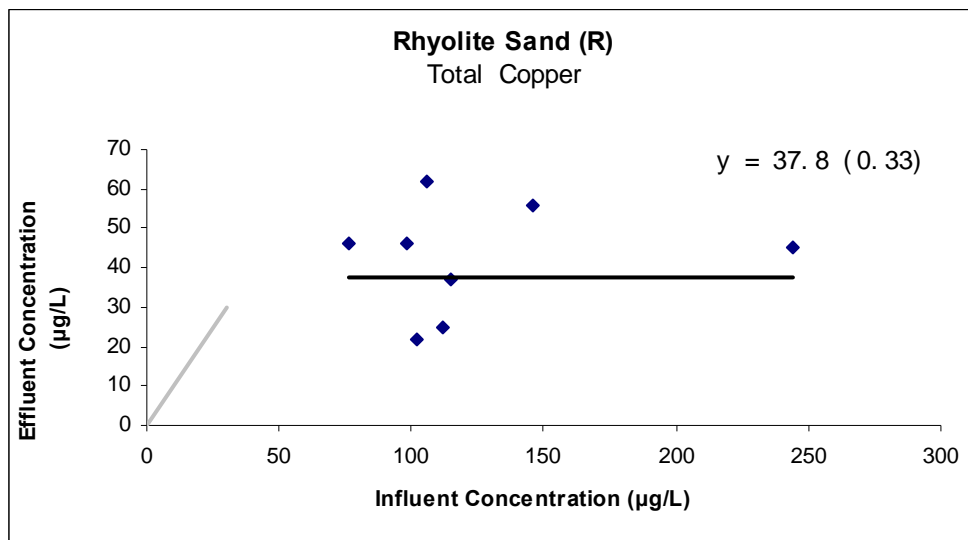
## ANOVA

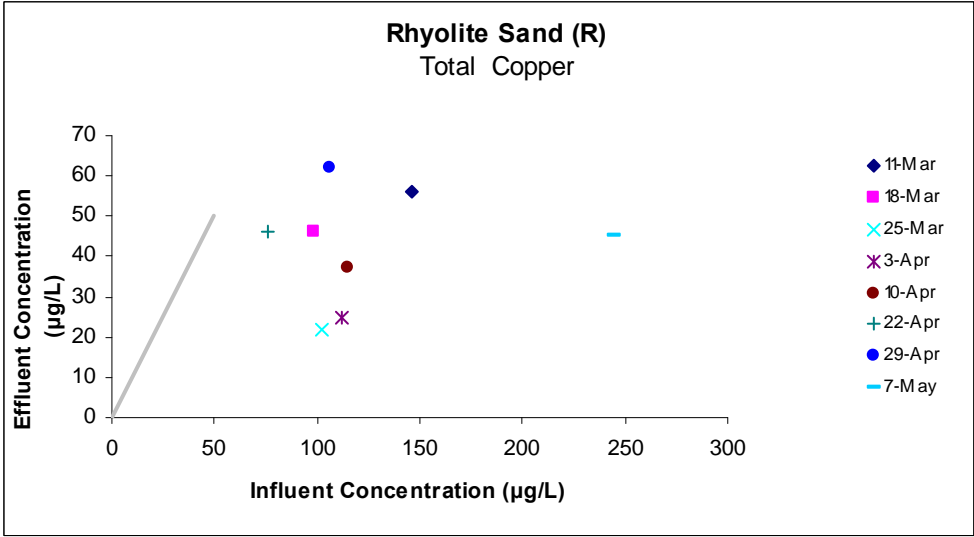
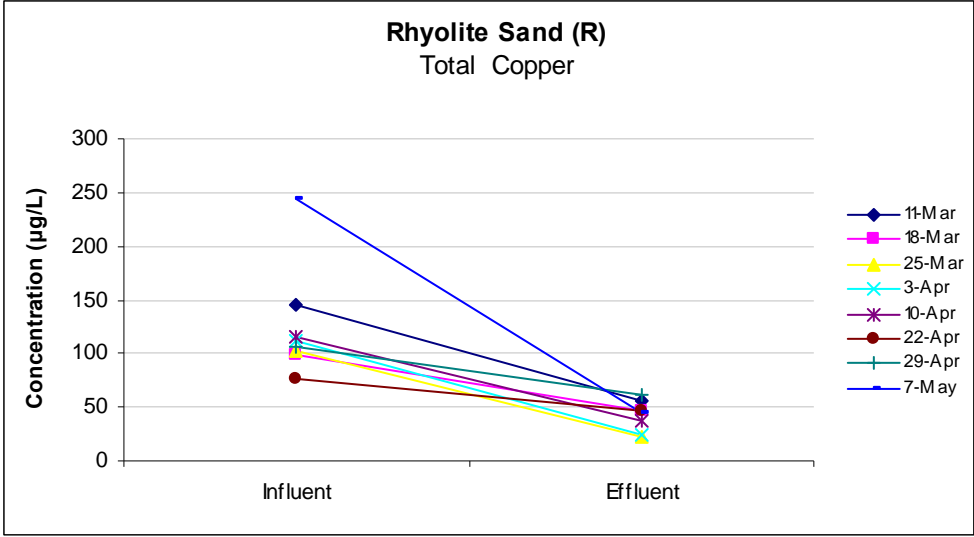
	df	SS	MS	F	Significance F
Regression	1.000	25.818	25.818	0.117	0.744
Residual	6.000	1324.057	220.676		
Total	7.000	1349.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	37.759	14.483	2.607	0.040	2.321	73.196	2.321	73.196
X Variable 1	0.037	0.108	0.342	0.744	-0.227	0.301	-0.227	0.301

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	43.156	12.844
2	41.381	4.619
3	41.529	-19.529
4	41.899	-16.899
5	42.010	-5.010
6	40.568	5.432
7	41.677	20.323
8	46.779	-1.779





# Dissolved Cu

Rhyolite Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.148
R Square	0.022
Adjusted R Square	-0.141
Standard Error	6.176
Observations	8.000

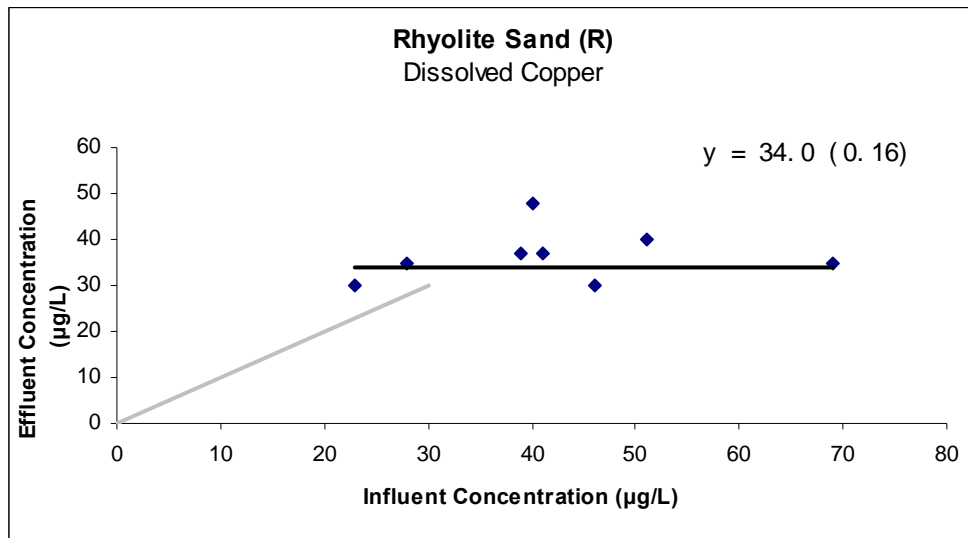
## ANOVA

	df	SS	MS	F	Significance F
Regression	1.000	5.112	5.112	0.134	0.727
Residual	6.000	228.888	38.148		
Total	7.000	234.000			

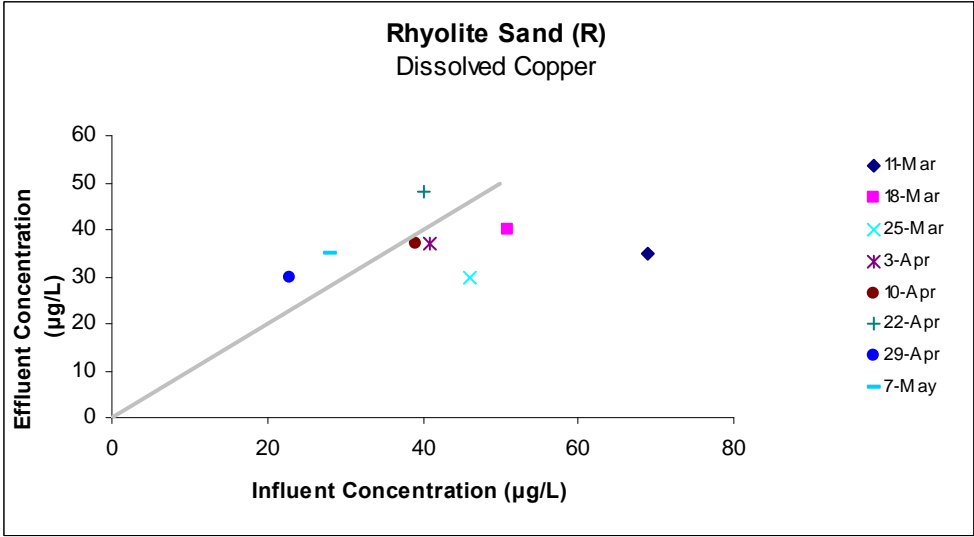
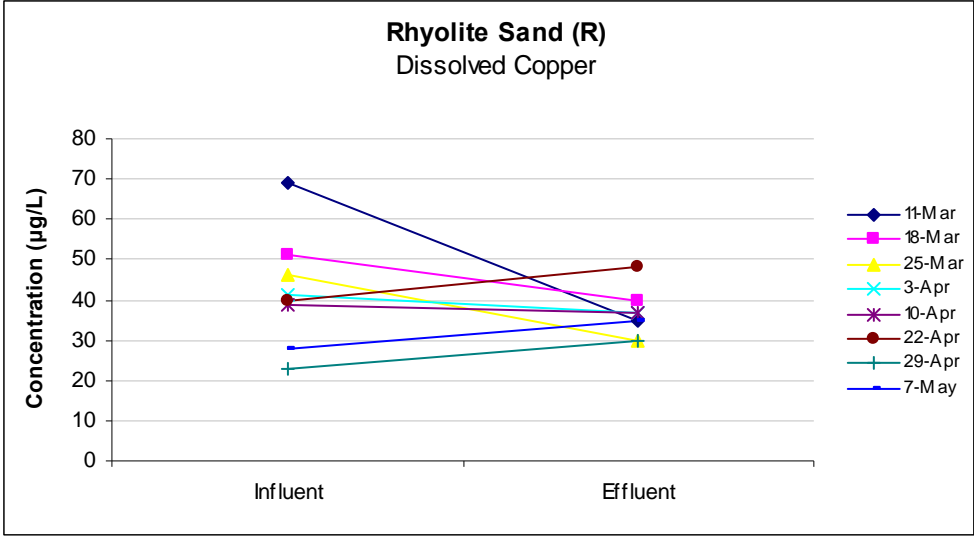
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	33.952	7.296	4.654	0.003	16.099	51.804	16.099	51.804
X Variable 1	0.060	0.165	0.366	0.727	-0.344	0.465	-0.344	0.465

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	38.126	-3.126
2	37.037	2.963
3	36.734	-6.734
4	36.432	0.568
5	36.311	0.689
6	36.371	11.629
7	35.343	-5.343
8	35.646	-0.646







# Total Fe

Rhyolite Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.077
R Square	0.006
Adjusted R Square	-0.160
Standard Error	2245.073
Observations	8.000

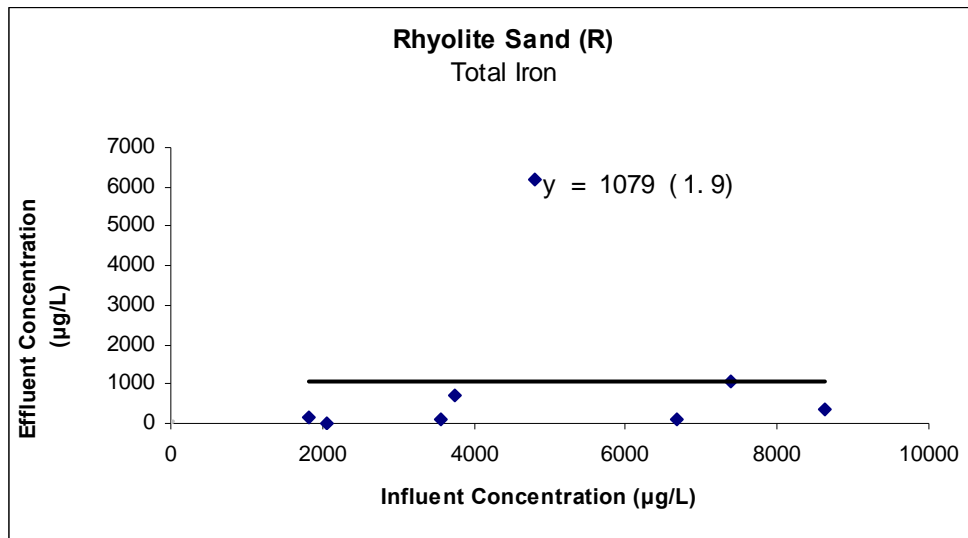
## ANOVA

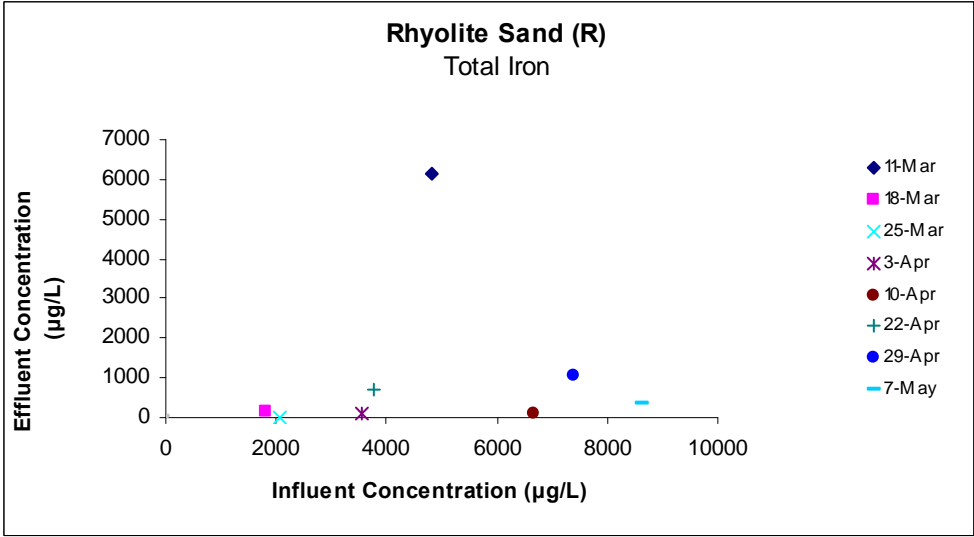
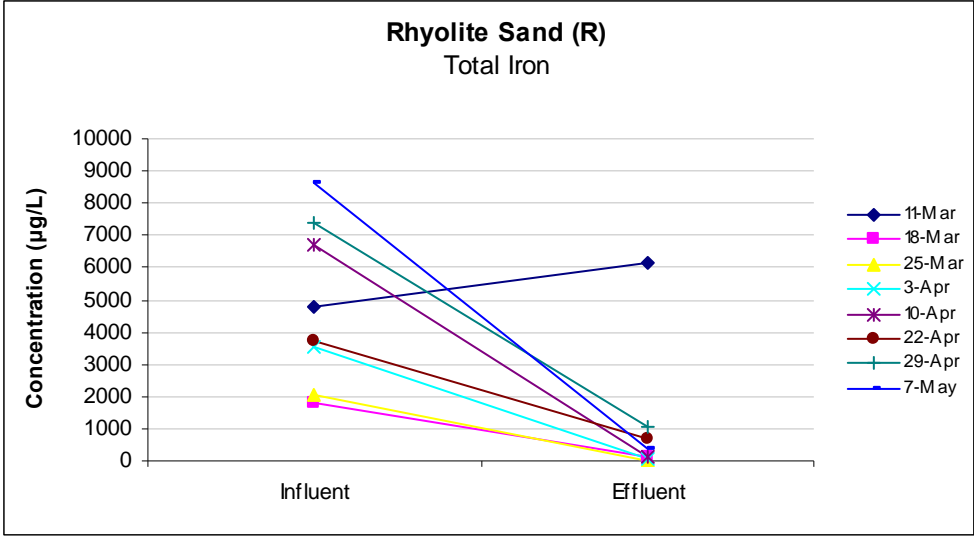
	df	SS	MS	F	Significance F
Regression	1.000	182479.297	182479.297	0.036	0.855
Residual	6.000	30242116.703	5040352.784		
Total	7.000	30424596.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	767.333	1820.193	0.422	0.688	-3686.519	5221.184	-3686.519	5221.184
X Variable 1	0.064	0.339	0.190	0.855	-0.765	0.893	-0.765	0.893

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	1077.469	5086.531
2	884.657	-749.657
3	899.355	-882.355
4	996.696	-903.696
5	1198.210	-1083.210
6	1009.073	-319.073
7	1243.851	-201.851
8	1322.690	-946.690





# Dissolved Fe

Rhyolite Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.216
R Square	0.047
Adjusted R Square	-0.144
Standard Error	306.794
Observations	7.000

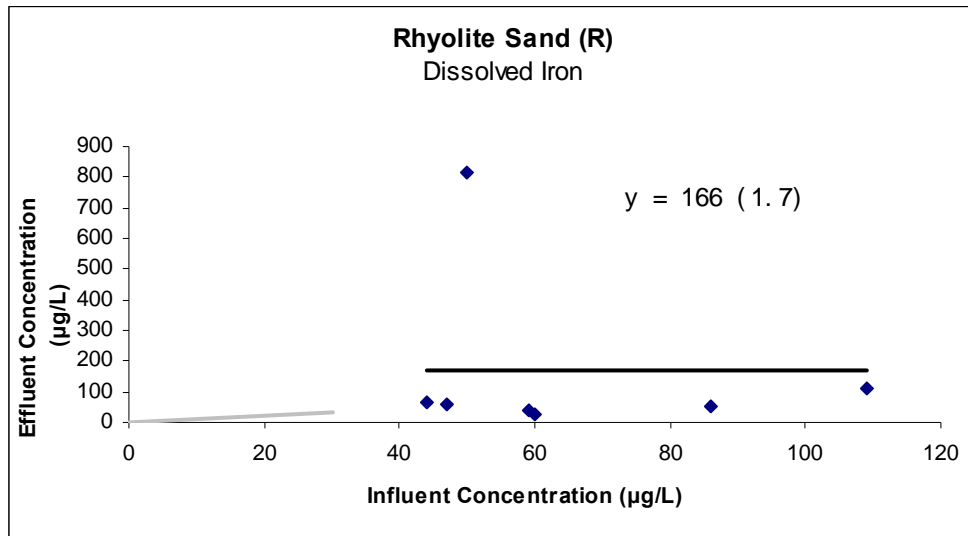
## ANOVA

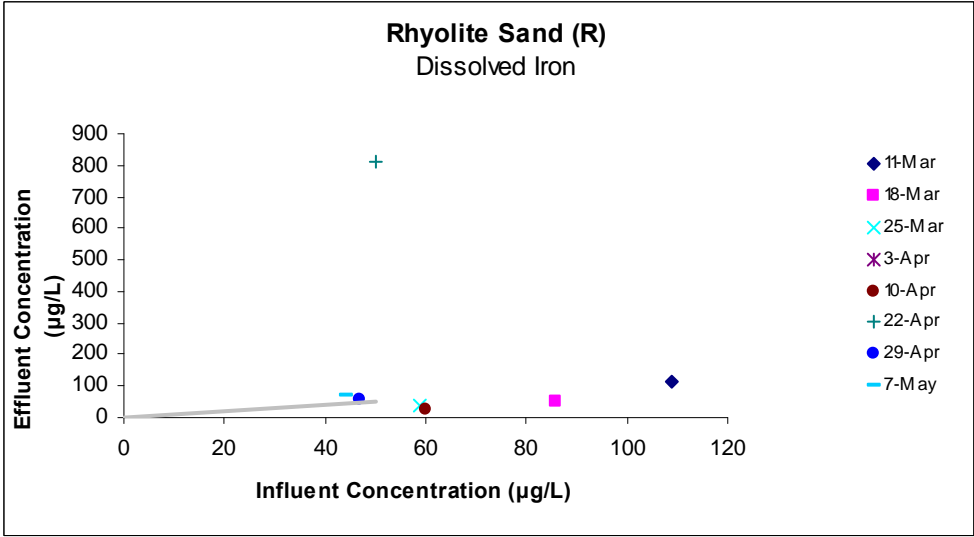
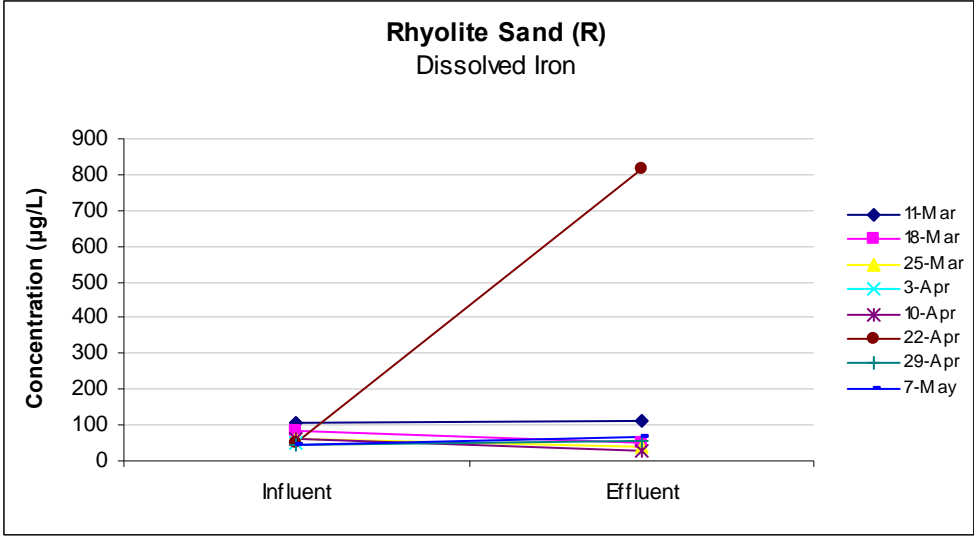
	df	SS	MS	F	Significance F
Regression	1.000	23080.812	23080.812	0.245	0.641
Residual	5.000	470612.902	94122.580		
Total	6.000	493693.714			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	335.234	359.794	0.932	0.394	-589.647	1260.114	-589.647	1260.114
X Variable 1	-2.595	5.240	-0.495	0.641	-16.065	10.875	-16.065	10.875

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	52.400	61.600
2	112.080	-61.080
3	182.140	-145.140
4	179.545	-152.545
5	205.494	608.506
6	213.278	-157.278
7	221.062	-154.062





# Total Mg

Rhyolite Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.086
R Square	0.007
Adjusted R Square	-0.158
Standard Error	1276.709
Observations	8.000

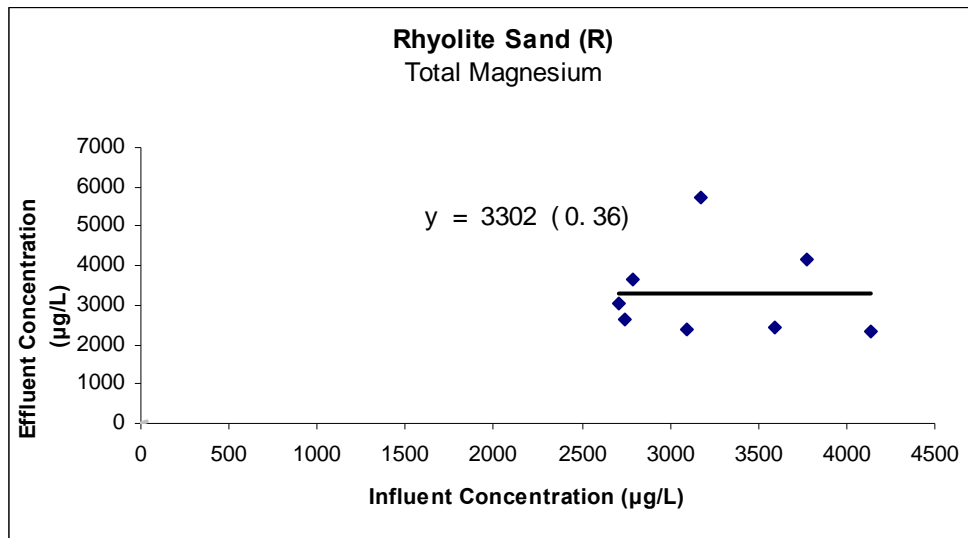
## ANOVA

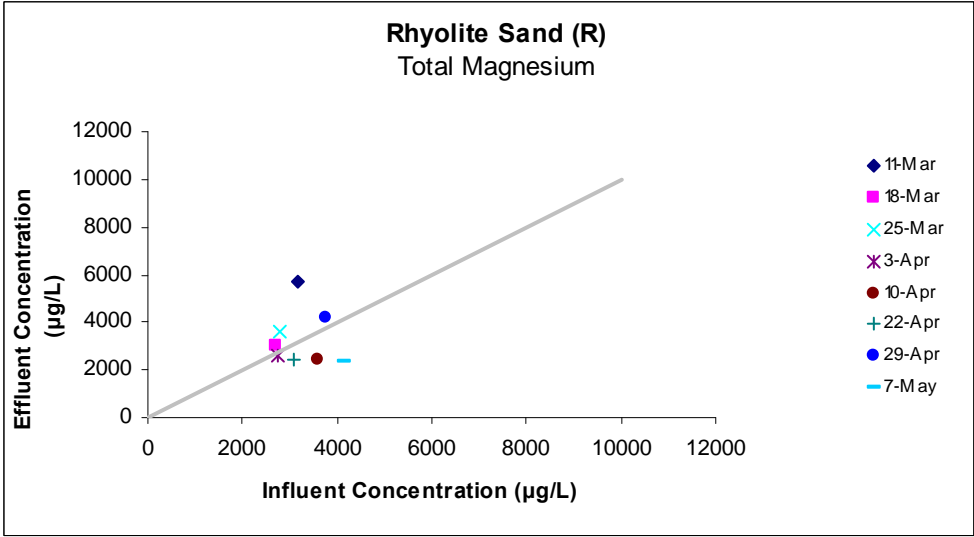
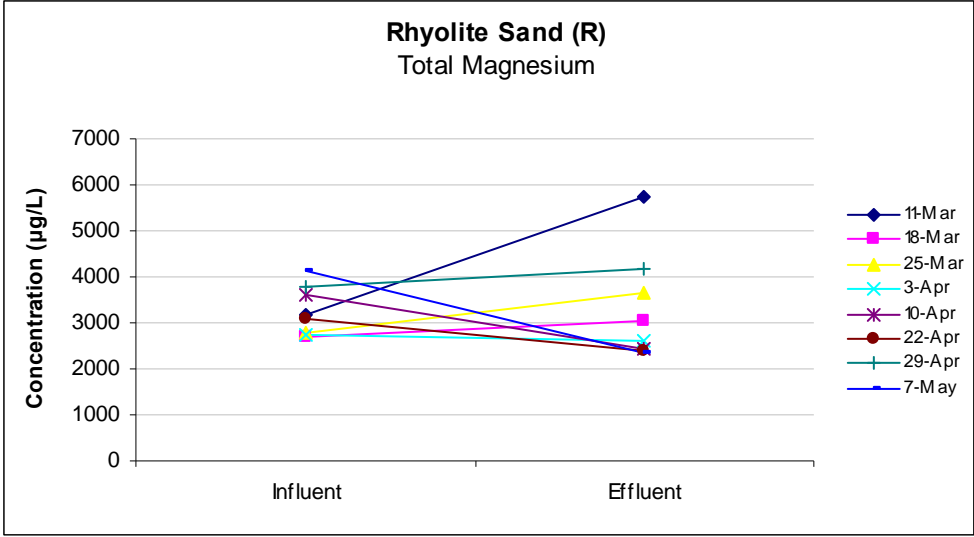
	df	SS	MS	F	Significance F
Regression	1.000	72858.005	72858.005	0.045	0.840
Residual	6.000	9779912.870	1629985.478		
Total	7.000	9852770.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	3927.121	2990.441	1.313	0.237	-3390.224	11244.466	-3390.224	11244.466
X Variable 1	-0.192	0.909	-0.211	0.840	-2.416	2.032	-2.416	2.032

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	3316.202	2429.798
2	3407.292	-385.292
3	3391.149	252.851
4	3399.797	-777.797
5	3237.218	-792.218
6	3331.576	-923.576
7	3202.051	980.949
8	3131.715	-784.715





# Dissolved Mg

Rhyolite Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.321
R Square	0.103
Adjusted R Square	-0.046
Standard Error	417.141
Observations	8.000

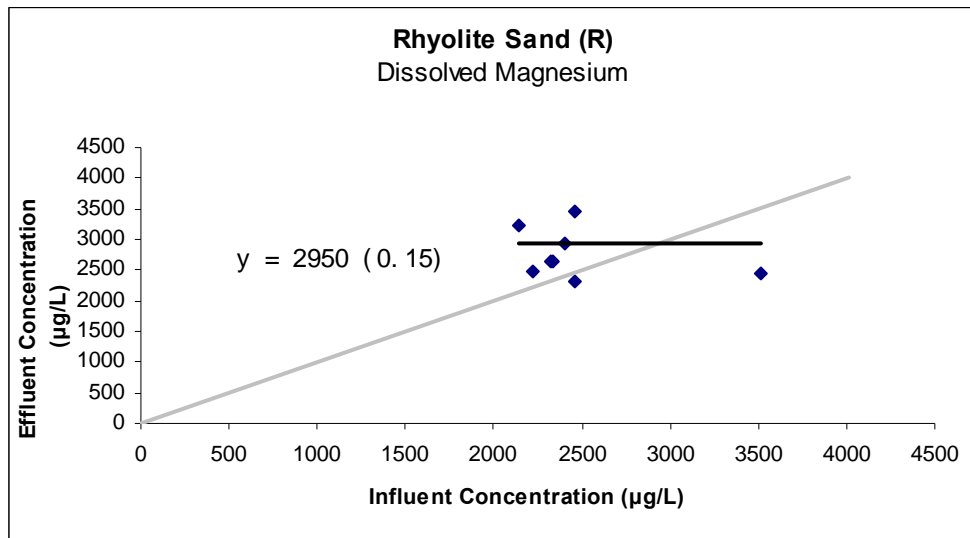
## ANOVA

	df	SS	MS	F	Significance F
Regression	1.000	120009.640	120009.640	0.690	0.438
Residual	6.000	1044041.235	174006.873		
Total	7.000	1164050.875			

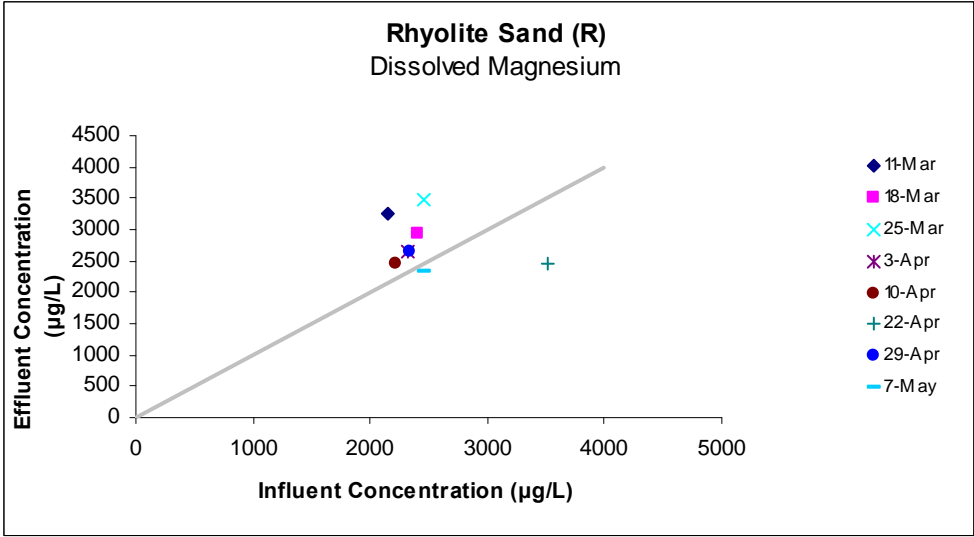
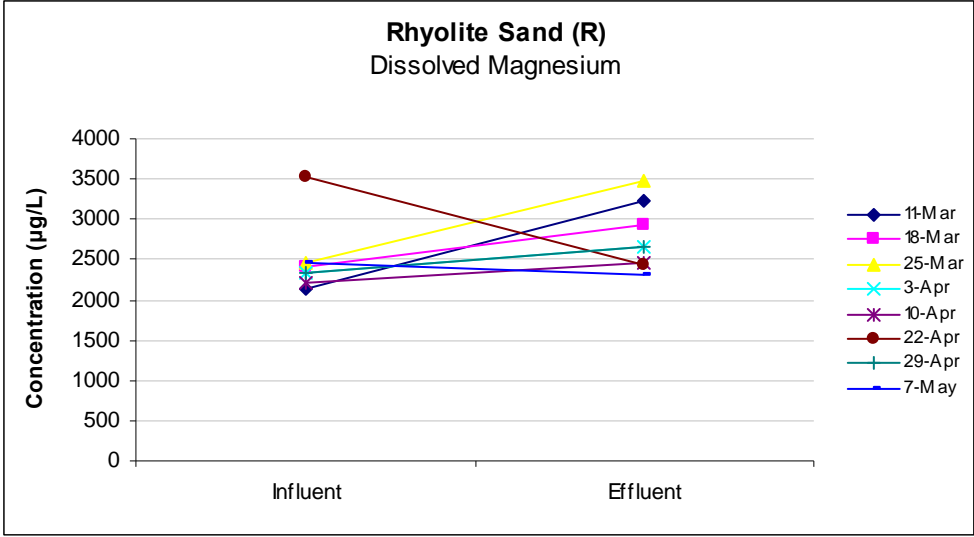
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	3523.882	918.341	3.837	0.009	1276.783	5770.981	1276.783	5770.981
X Variable 1	-0.303	0.365	-0.830	0.438	-1.196	0.590	-1.196	0.590

## RESIDUAL OUTPUT

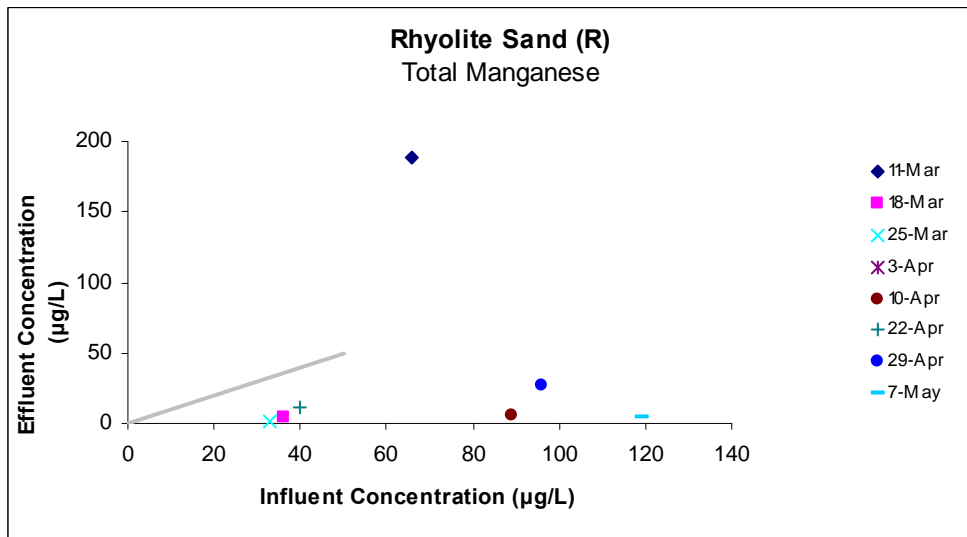
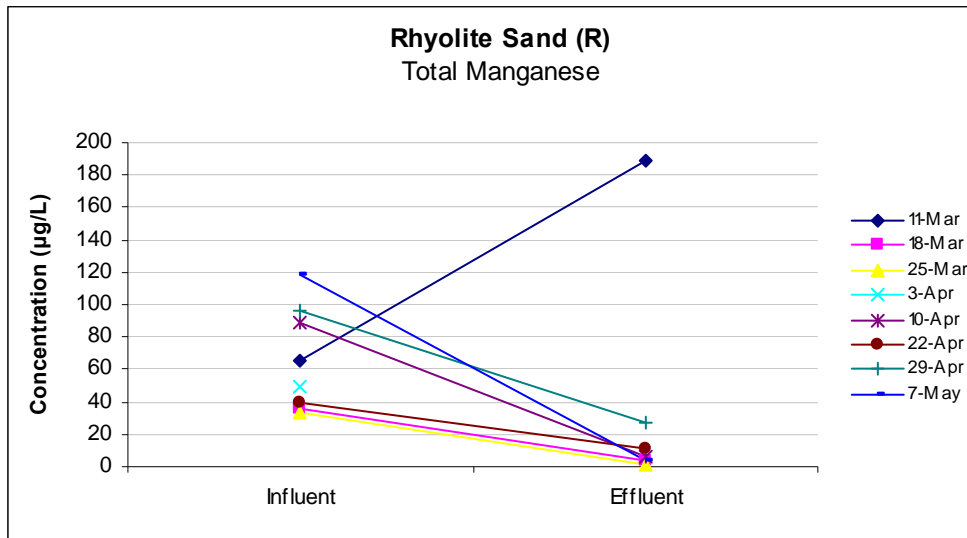
Observation	Predicted Y	Residuals
1	2874.029	366.971
2	2795.222	129.778
3	2777.339	692.661
4	2818.561	-171.561
5	2850.690	-381.690
6	2457.868	-13.868
7	2816.136	-163.136
8	2779.157	-459.157



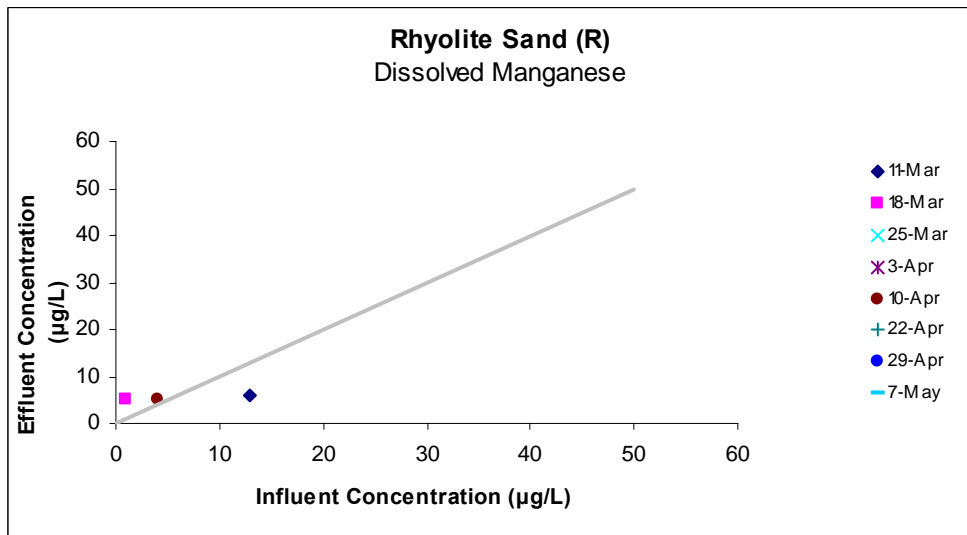
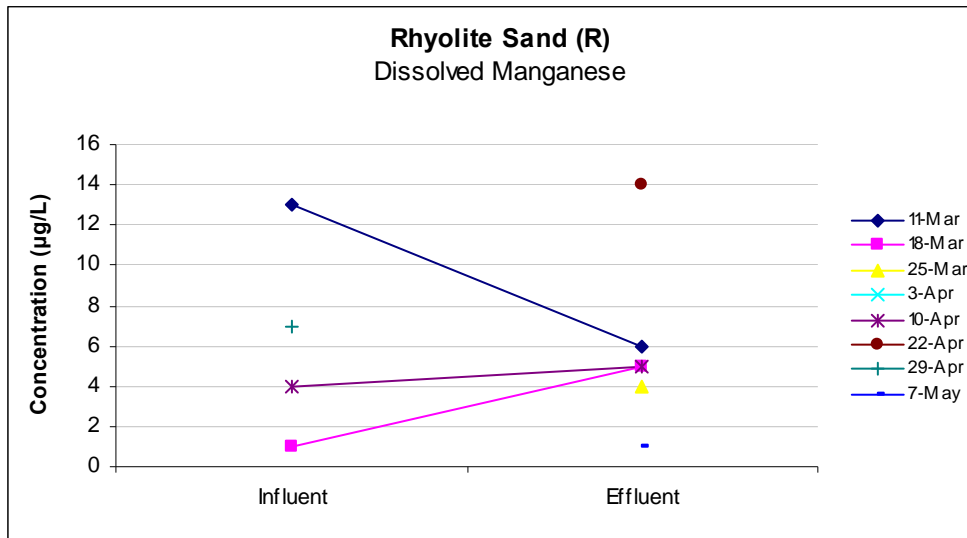




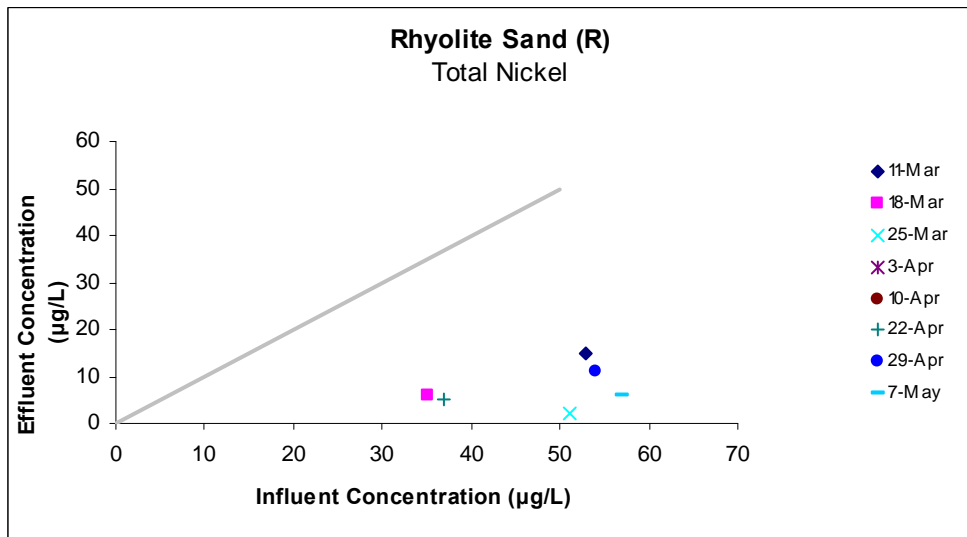
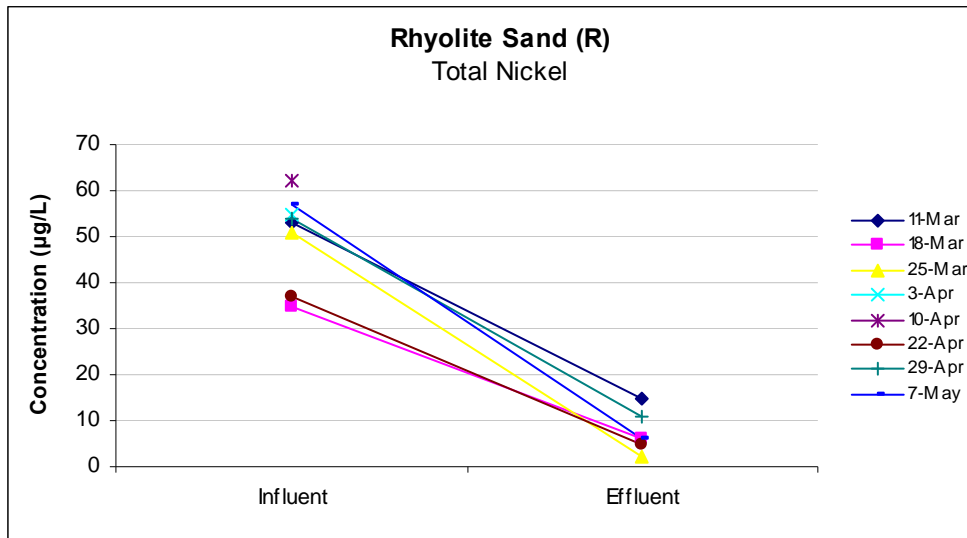
Total Mn



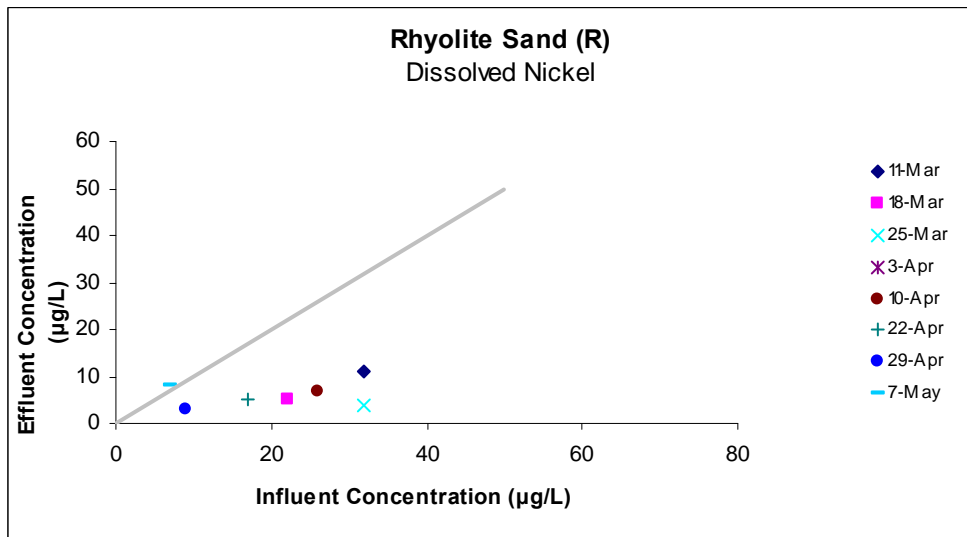
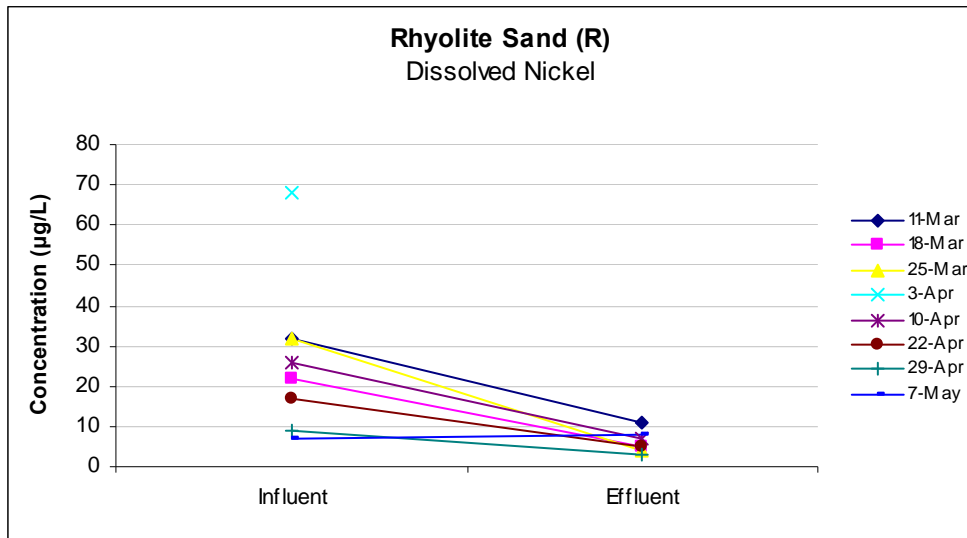
## Dissolved Mn



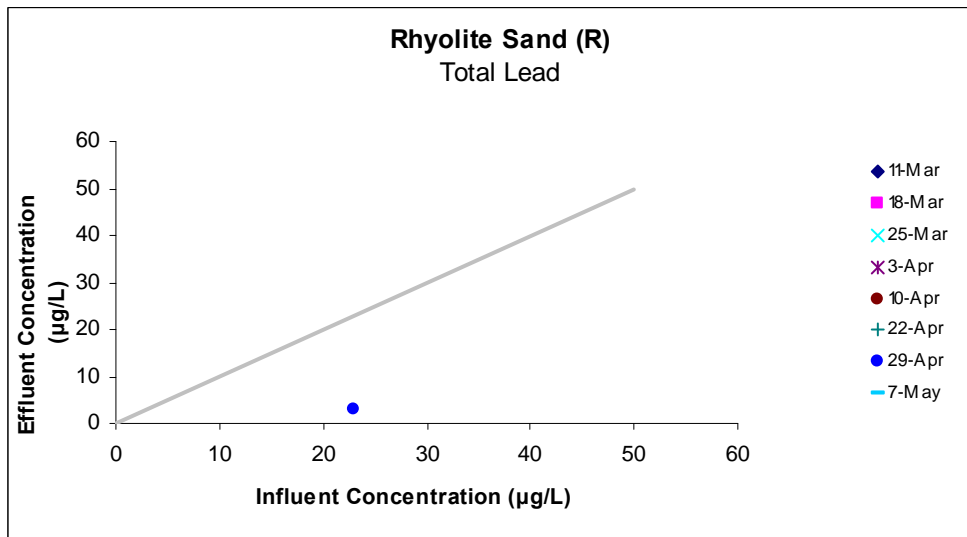
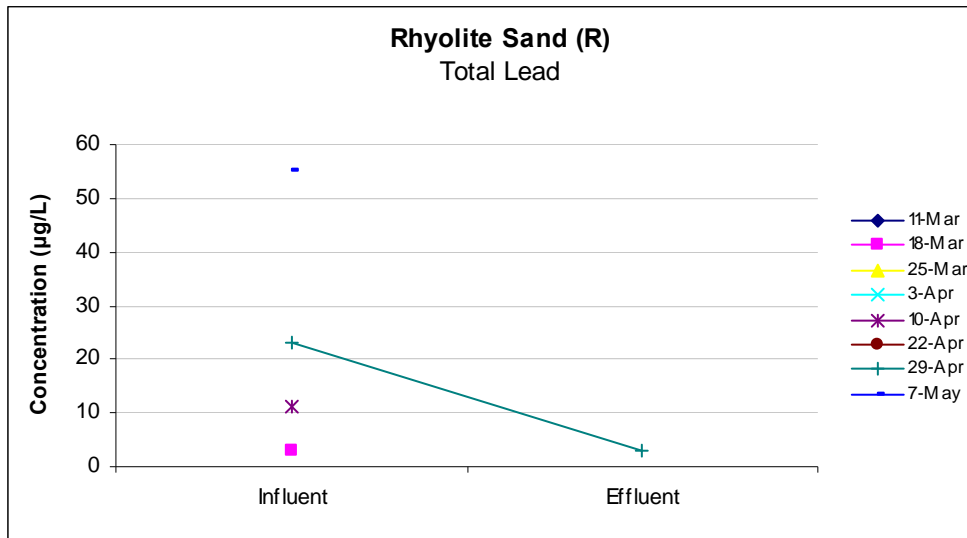
Total Ni



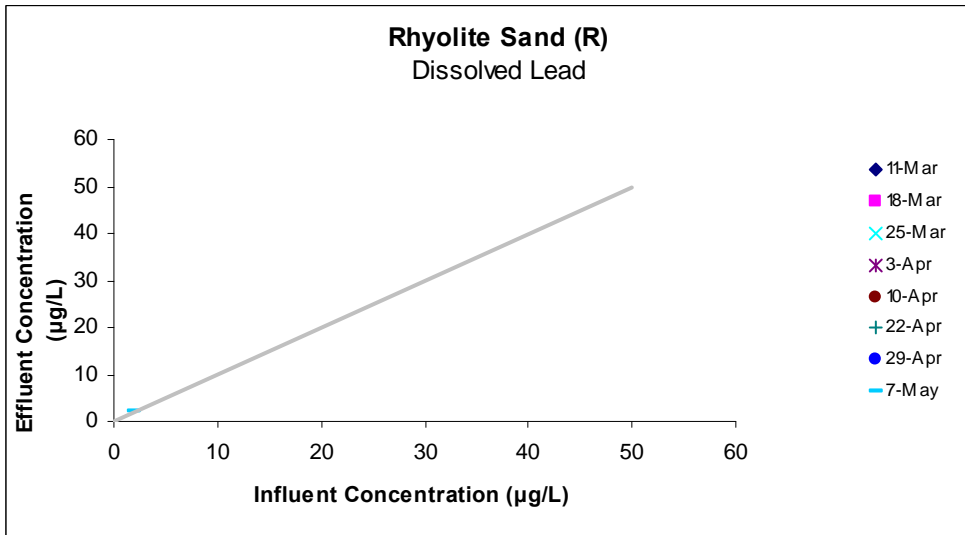
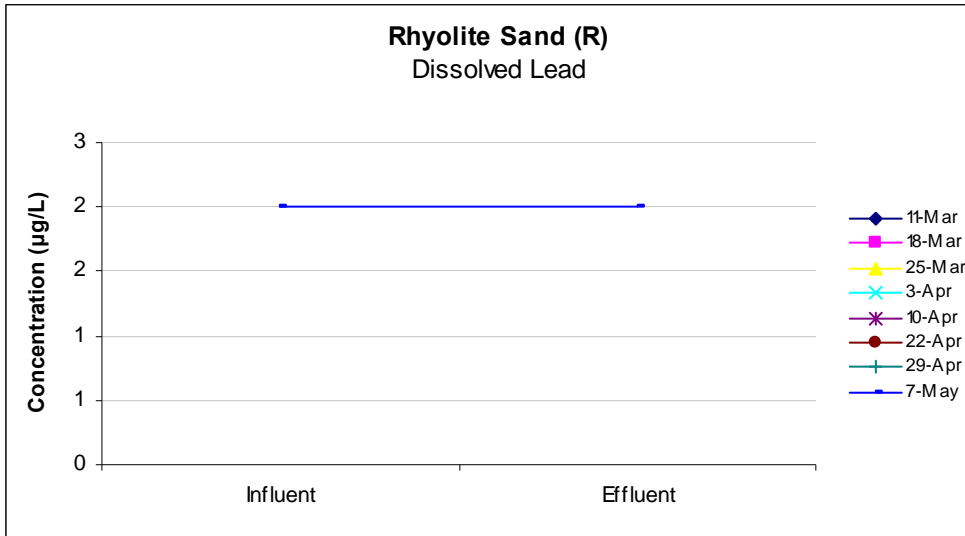
Dissolved Ni



Total Pb



# Dissolved Pb



# Total Zn

Rhyolite Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.162
R Square	0.026
Adjusted R Square	-0.136
Standard Error	16.000
Observations	8.000

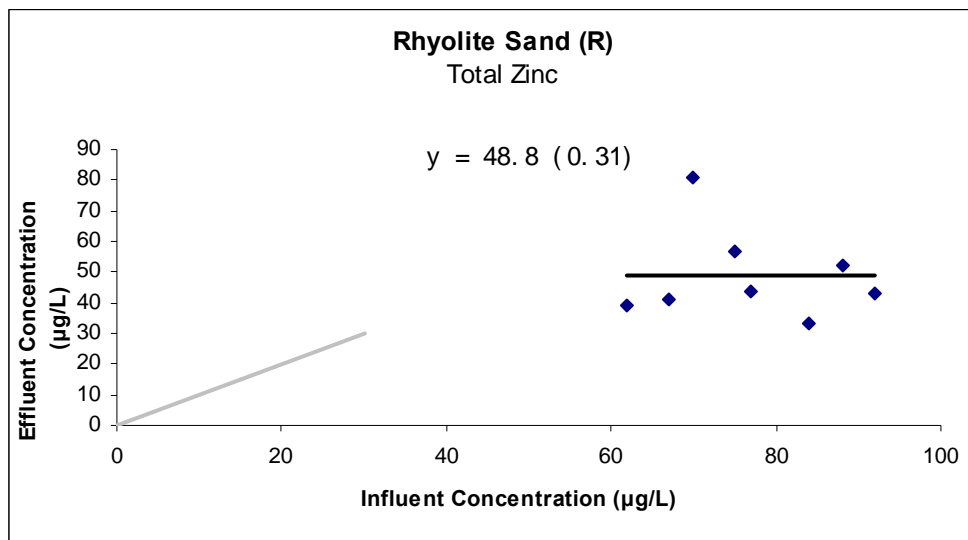
## ANOVA

	df	SS	MS	F	Significance F
Regression	1.000	41.573	41.573	0.162	0.701
Residual	6.000	1535.927	255.988		
Total	7.000	1577.500			

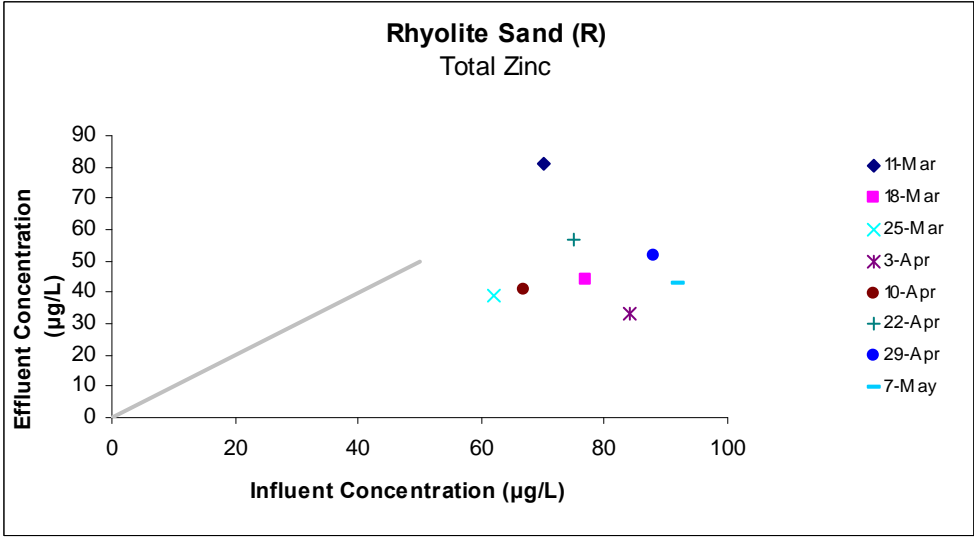
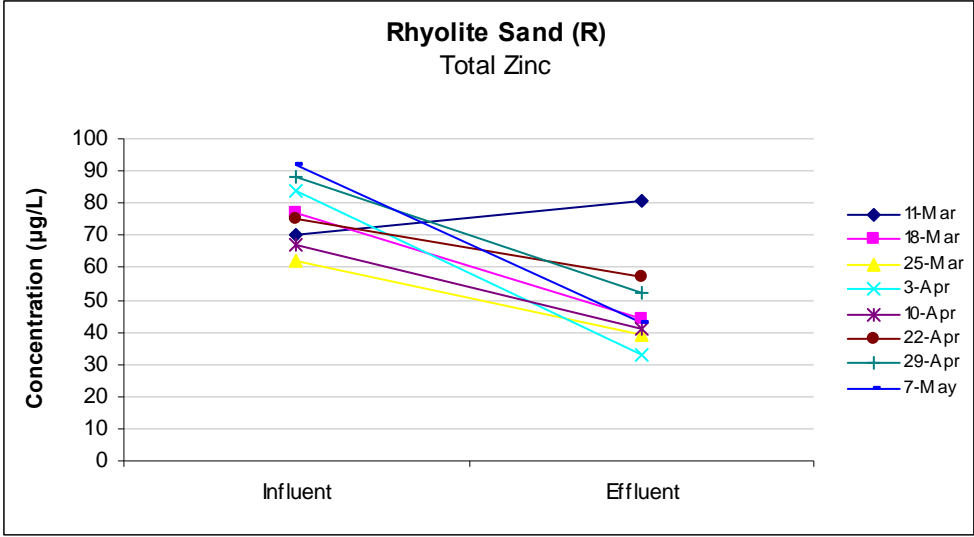
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	66.579	44.603	1.493	0.186	-42.560	175.718	-42.560	175.718
X Variable 1	-0.232	0.576	-0.403	0.701	-1.640	1.176	-1.640	1.176

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	50.344	30.656
2	48.721	-4.721
3	52.200	-13.200
4	47.098	-14.098
5	51.040	-10.040
6	49.185	7.815
7	46.170	5.830
8	45.242	-2.242







# Dissolved Zn

Rhyolite Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.703
R Square	0.494
Adjusted R Square	0.409
Standard Error	9.333
Observations	8.000

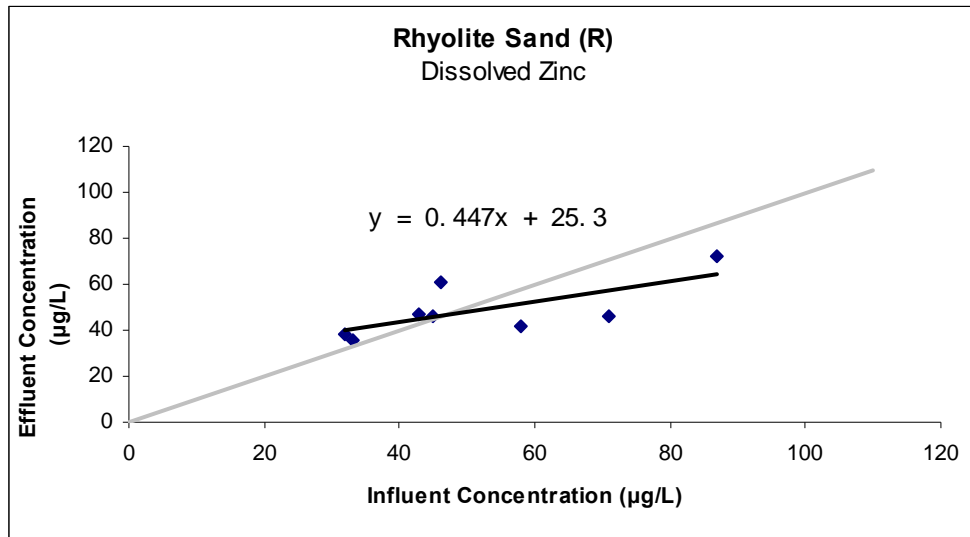
## ANOVA

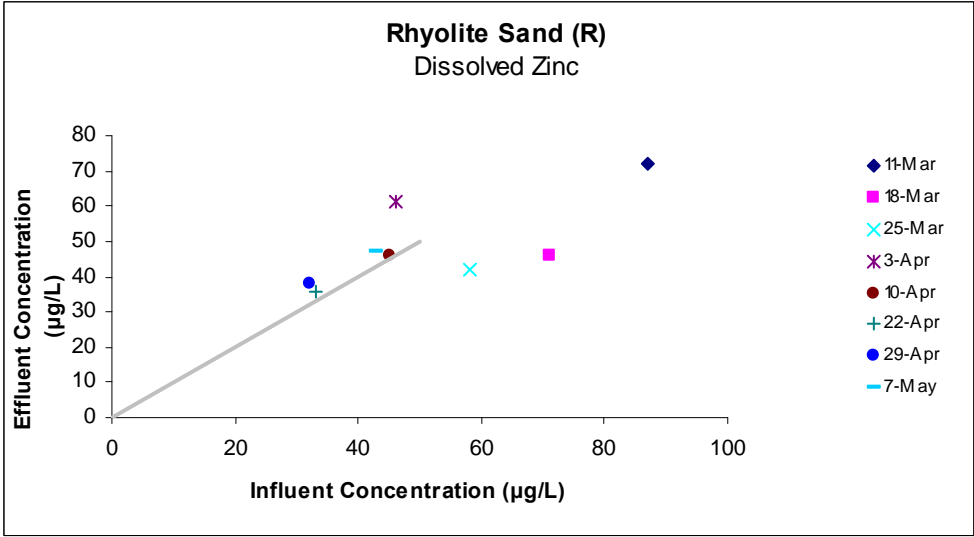
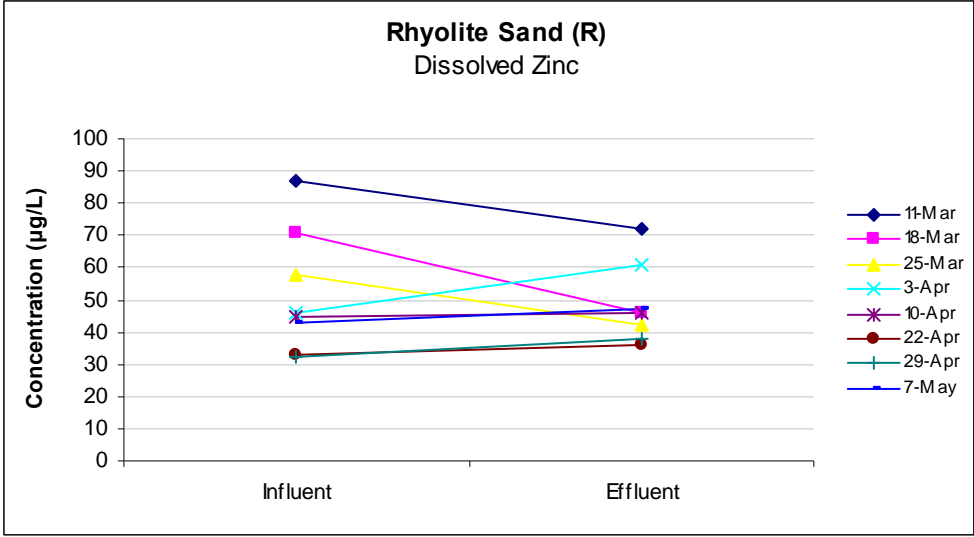
	df	SS	MS	F	Significance F
Regression	1.000	509.425	509.425	5.849	0.052
Residual	6.000	522.575	87.096		
Total	7.000	1032.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	25.309	10.141	2.496	0.047	0.495	50.123	0.495	50.123
X Variable 1	0.447	0.185	2.418	0.052	-0.005	0.899	-0.005	0.899

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	64.203	7.797
2	57.050	-11.050
3	51.238	-9.238
4	45.874	15.126
5	45.426	0.574
6	40.062	-4.062
7	39.615	-1.615
8	44.532	2.468





# Total K

Rhyolite Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.524
R Square	0.275
Adjusted R Square	0.154
Standard Error	1947.358
Observations	8.000

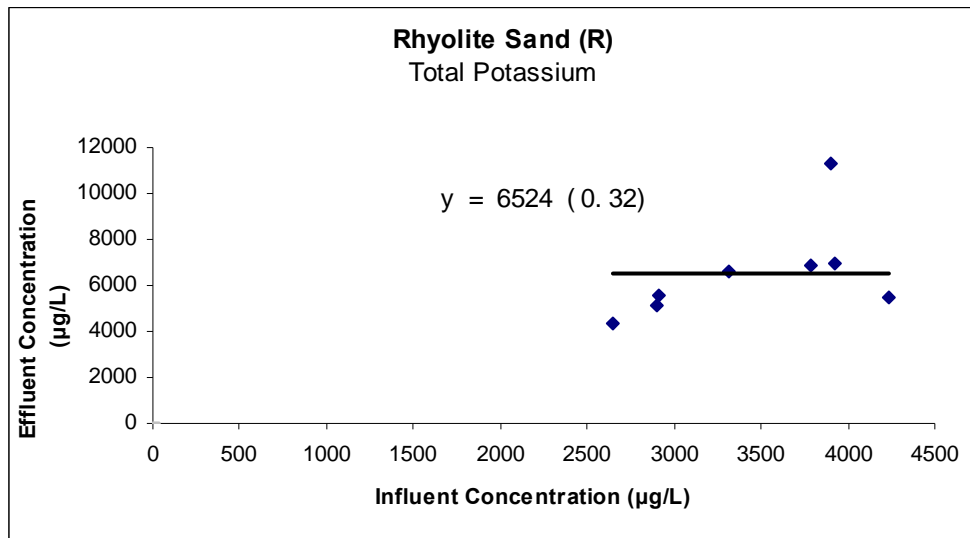
## ANOVA

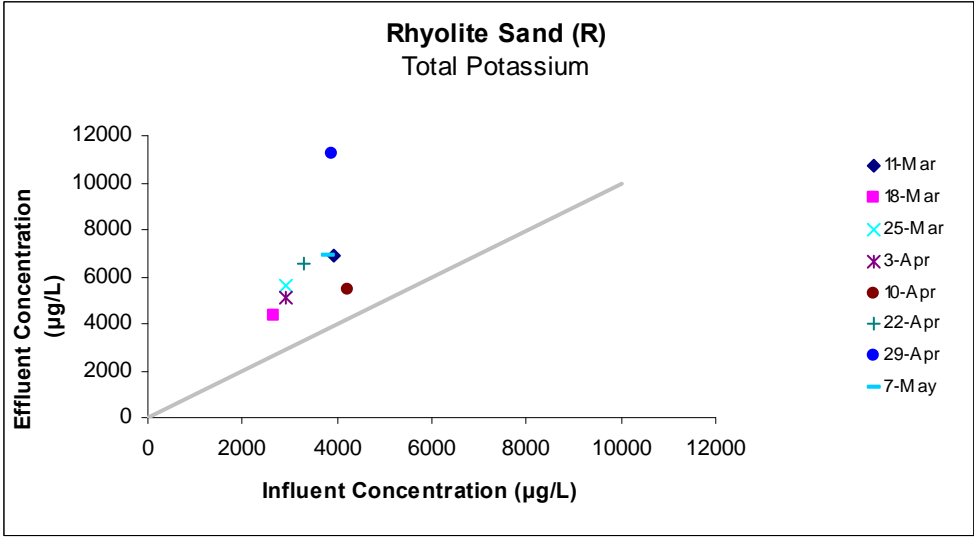
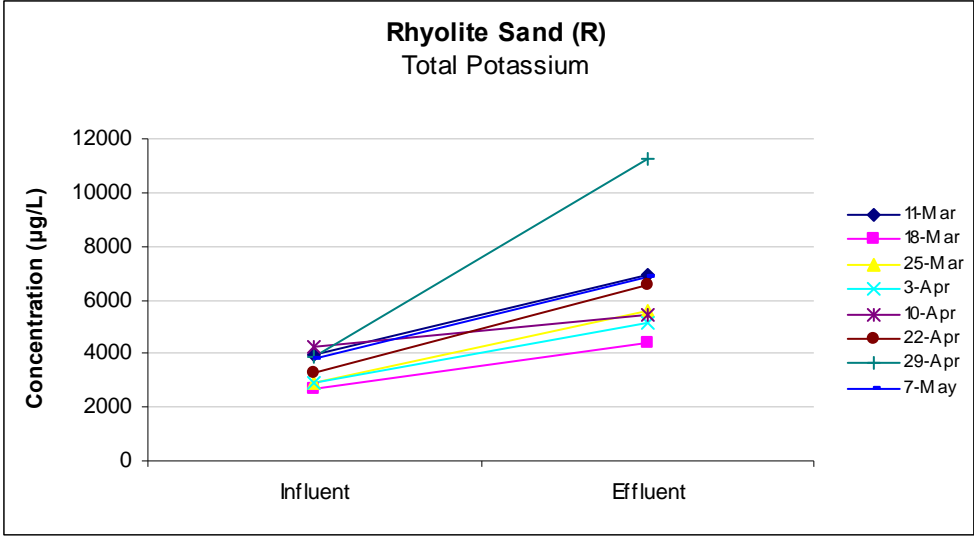
	df	SS	MS	F	Significance F
Regression	1.000	8625278.367	8625278.367	2.274	0.182
Residual	6.000	22753221.633	3792203.606		
Total	7.000	31378500.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-19.370	4392.999	-0.004	0.997	-10768.652	10729.911	-10768.652	10729.911
X Variable 1	1.895	1.256	1.508	0.182	-1.179	4.969	-1.179	4.969

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	7405.717	-476.717
2	5003.316	-637.316
3	5505.395	89.605
4	5476.976	-332.976
5	8012.002	-2564.002
6	6259.461	319.539
7	7365.930	3903.070
8	7163.204	-301.204





# Dissolved K

Rhyolite Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.009
R Square	0.000
Adjusted R Square	-0.167
Standard Error	1357.255
Observations	8.000

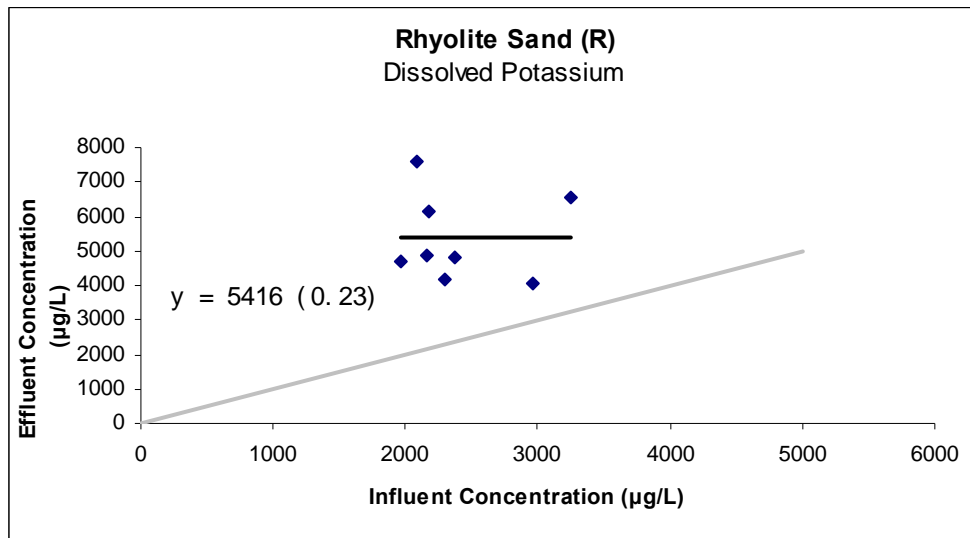
## ANOVA

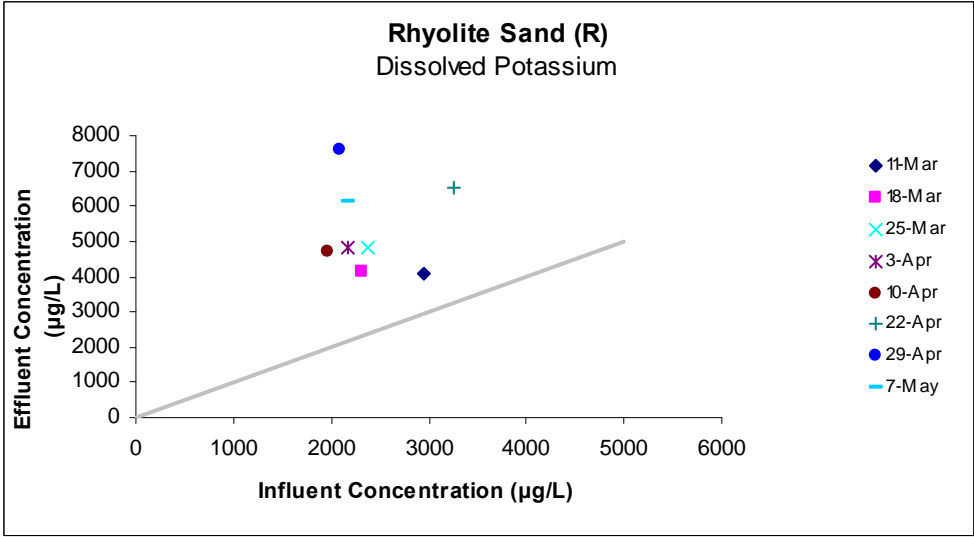
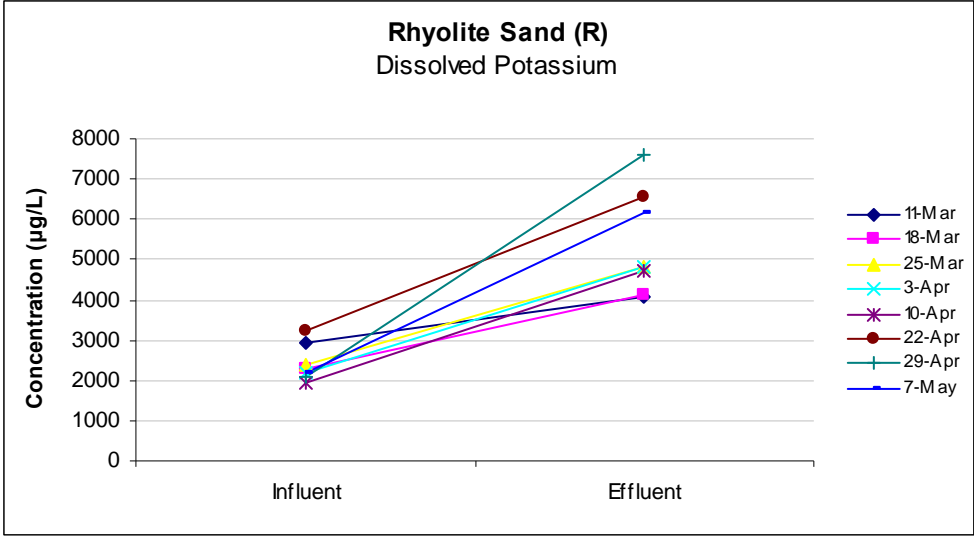
	df	SS	MS	F	Significance F
Regression	1.000	955.352	955.352	0.001	0.983
Residual	6.000	11052854.523	1842142.421		
Total	7.000	11053809.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	5416.337	2752.036	1.968	0.097	-1317.653	12150.327	-1317.653	12150.327
X Variable 1	-0.026	1.126	-0.023	0.983	-2.781	2.729	-2.781	2.729

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	5340.545	-1262.545
2	5357.263	-1211.263
3	5355.622	-543.622
4	5360.904	-518.904
5	5366.083	-668.083
6	5332.905	1213.095
7	5362.980	2215.020
8	5360.698	776.302





# Total Na

Rhyolite Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.065
R Square	0.004
Adjusted R Square	-0.162
Standard Error	4132.350
Observations	8.000

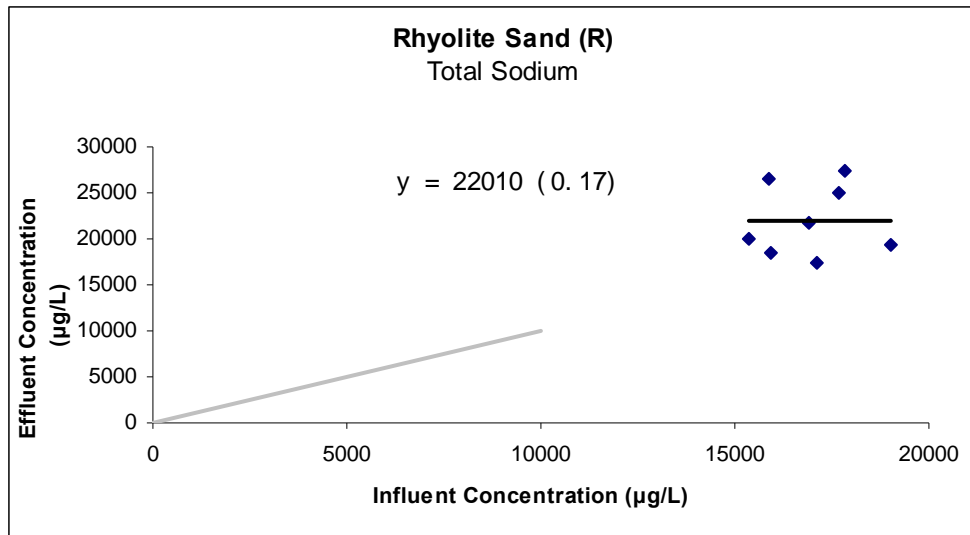
## ANOVA

	df	SS	MS	F	Significance F
Regression	1.000	428788.717	428788.717	0.025	0.879
Residual	6.000	102457875.283	17076312.547		
Total	7.000	102886664.000			

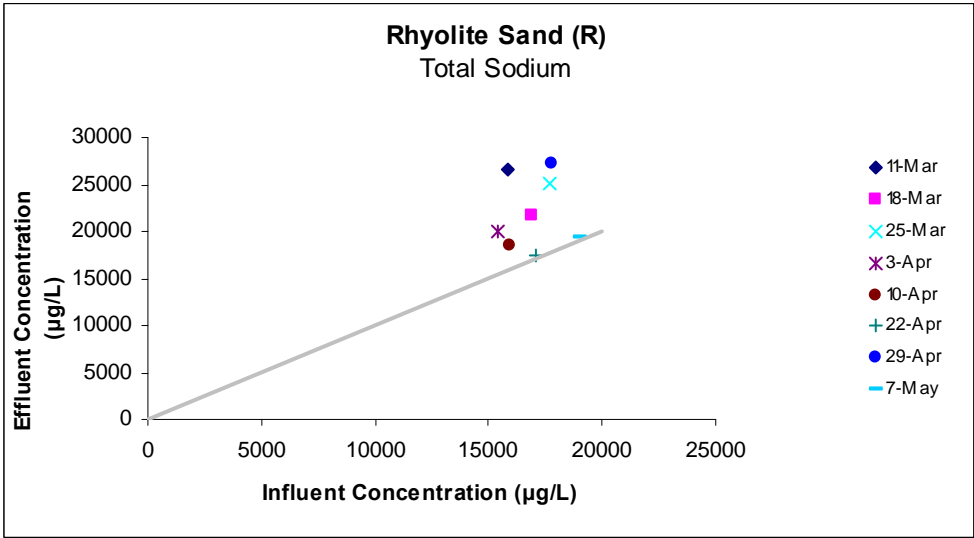
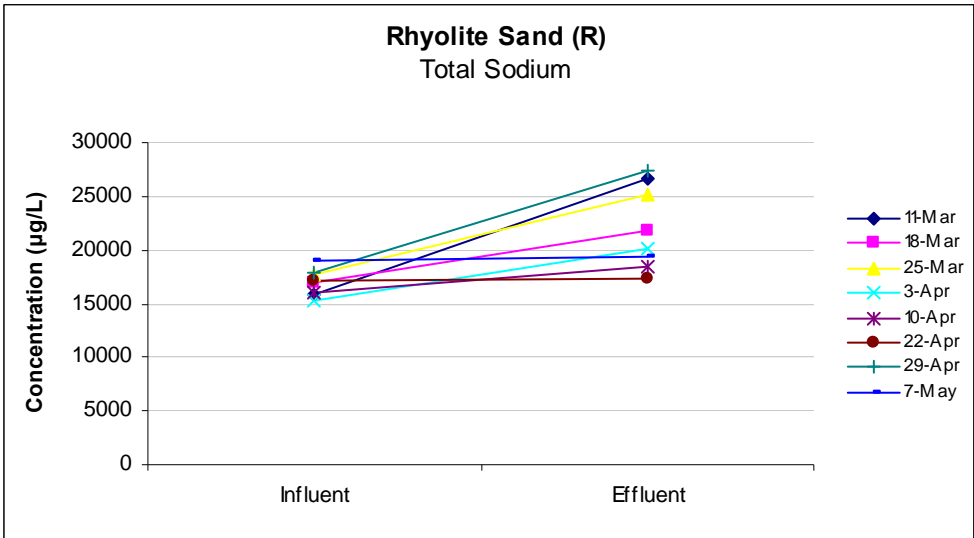
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	18563.639	21797.861	0.852	0.427	-34773.806	71901.083	-34773.806	71901.083
X Variable 1	0.203	1.282	0.158	0.879	-2.933	3.339	-2.933	3.339

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	21788.123	4780.877
2	21997.713	-233.713
3	22155.109	2929.891
4	21684.140	-1589.140
5	21800.714	-3268.714
6	22039.753	-4626.753
7	22183.136	5146.864
8	22431.313	-3139.313







# Dissolved Na

Rhyolite Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.476
R Square	0.227
Adjusted R Square	0.098
Standard Error	2405.185
Observations	8.000

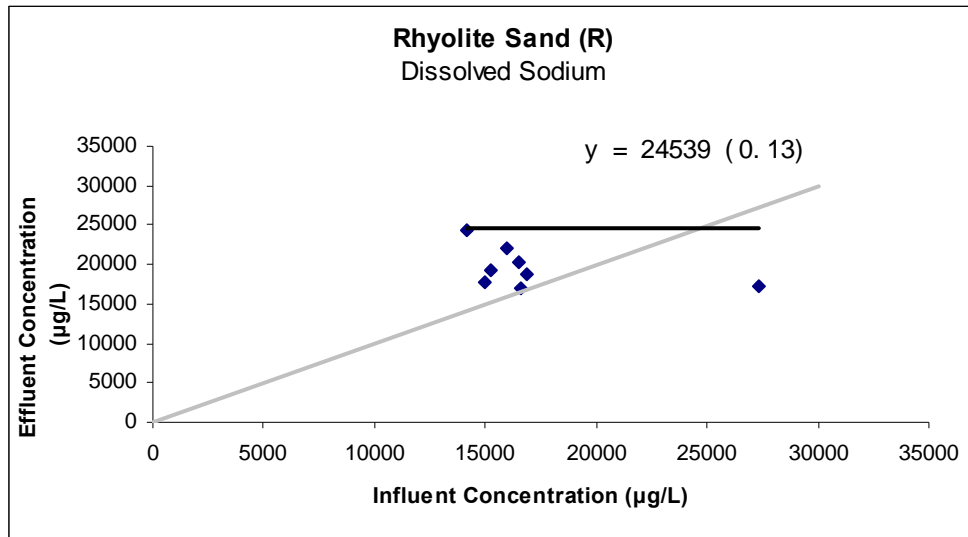
## ANOVA

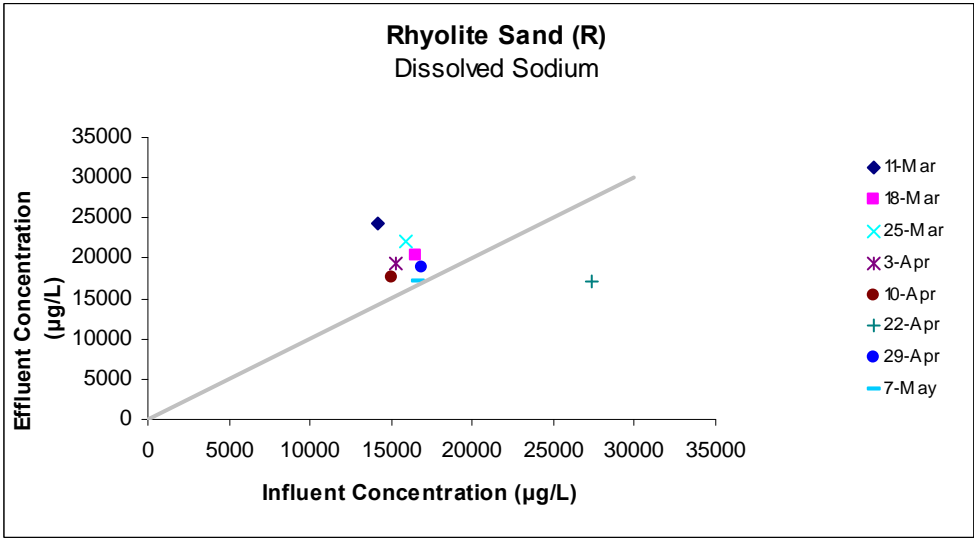
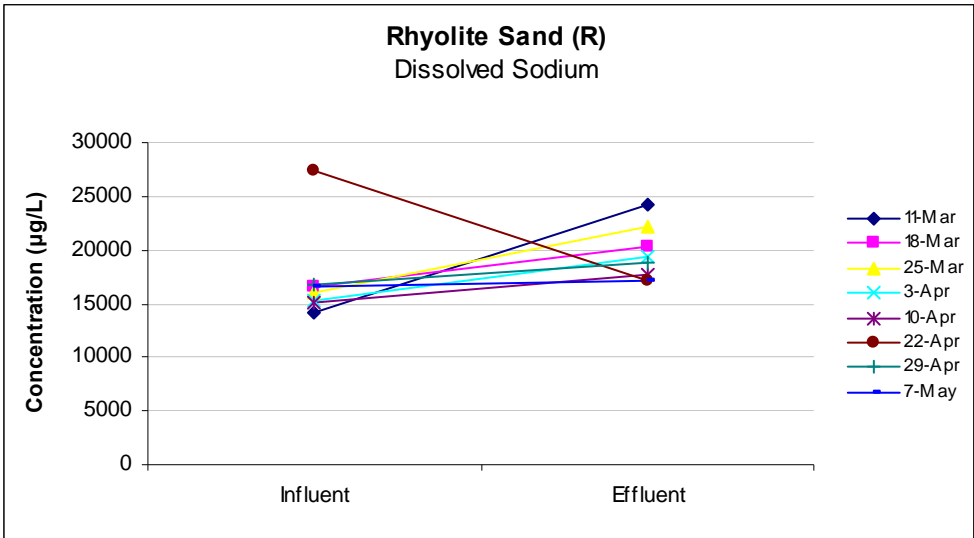
	df	SS	MS	F	Significance F
Regression	1.000	10189517.979	10189517.979	1.761	0.233
Residual	6.000	34709490.021	5784915.003		
Total	7.000	44899008.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	24538.526	3830.966	6.405	0.001	15164.490	33912.563	15164.490	33912.563
X Variable 1	-0.288	0.217	-1.327	0.233	-0.819	0.243	-0.819	0.243

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	20457.010	3791.990
2	19777.285	461.715
3	19943.184	2176.816
4	20141.341	-831.341
5	20217.378	-2498.378
6	16666.968	541.032
7	19691.743	-948.743
8	19753.091	-2693.091





# Total Cr

Rhyolite Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.092
R Square	0.008
Adjusted R Square	-0.157
Standard Error	15.647
Observations	8.000

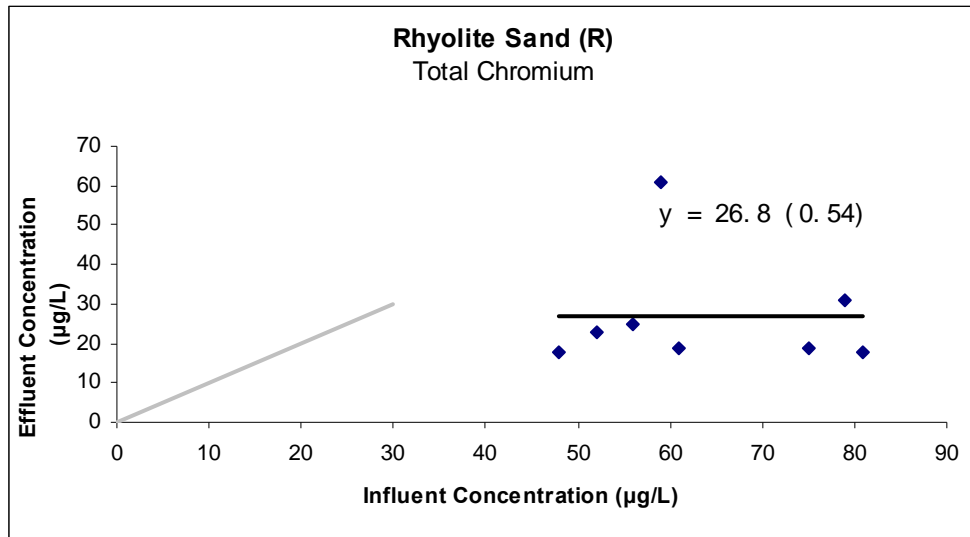
ANOVA						
	df	SS	MS	F	Significance F	
Regression	1.000	12.553	12.553	0.051	0.828	
Residual	6.000	1468.947	244.825			
Total	7.000	1481.500				

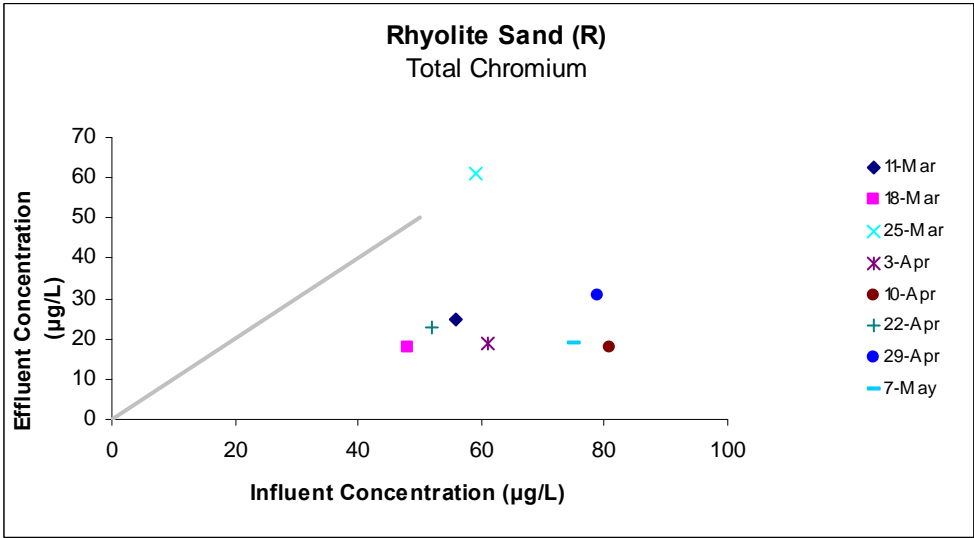
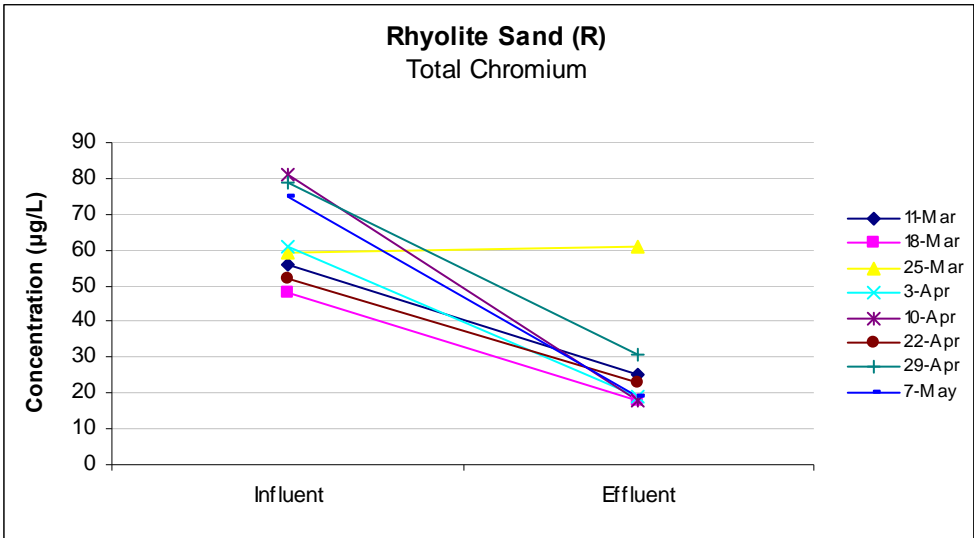
  

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	33.474	30.205	1.108	0.310	-40.435	107.382	-40.435	107.382
X Variable 1	-0.105	0.465	-0.226	0.828	-1.243	1.032	-1.243	1.032

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	27.579	-2.579
2	28.421	-10.421
3	27.263	33.737
4	27.053	-8.053
5	24.947	-6.947
6	28.000	-5.000
7	25.158	5.842
8	25.579	-6.579





# Dissolved Cr

Rhyolite Sand

## SUMMARY OUTPUT

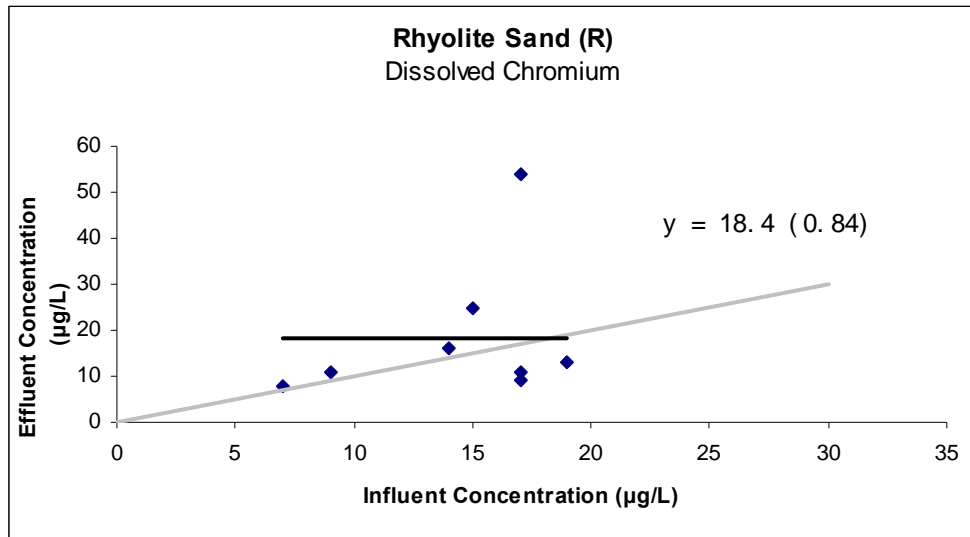
Regression Statistics	
Multiple R	0.320
R Square	0.102
Adjusted R Square	-0.047
Standard Error	15.721
Observations	8.000

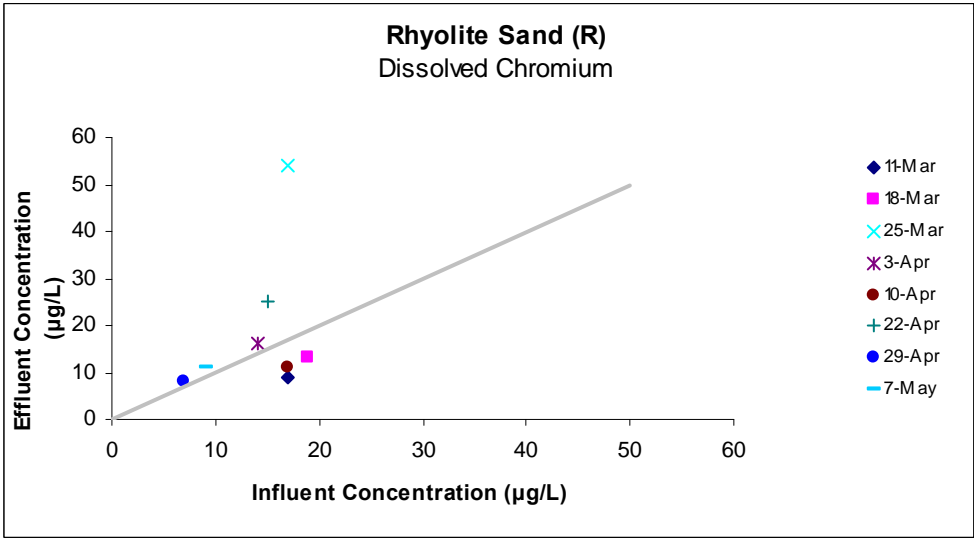
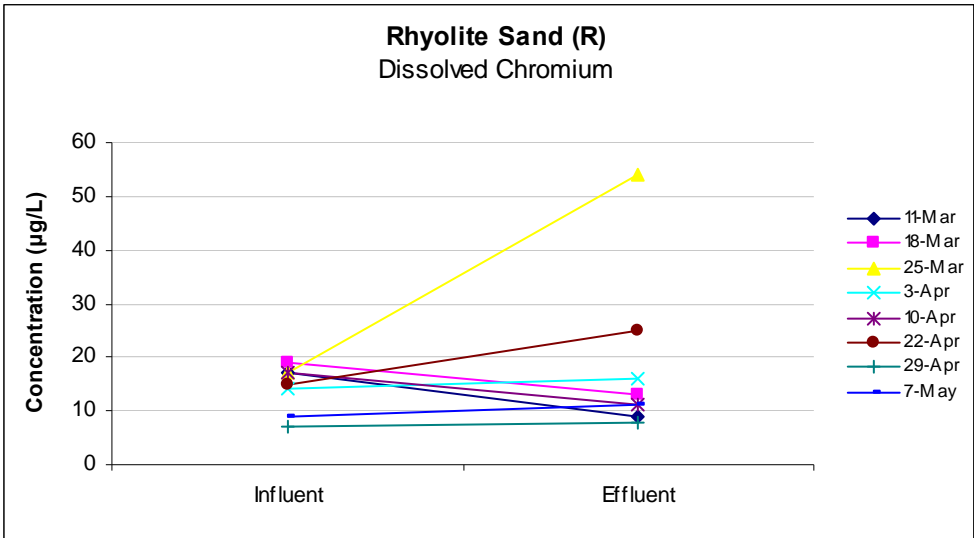
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	169.053	169.053	0.684	0.440
Residual	6.000	1482.822	247.137		
Total	7.000	1651.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	1.716	20.895	0.082	0.937	-49.412	52.844	-49.412	52.844
X Variable 1	1.159	1.401	0.827	0.440	-2.270	4.587	-2.270	4.587

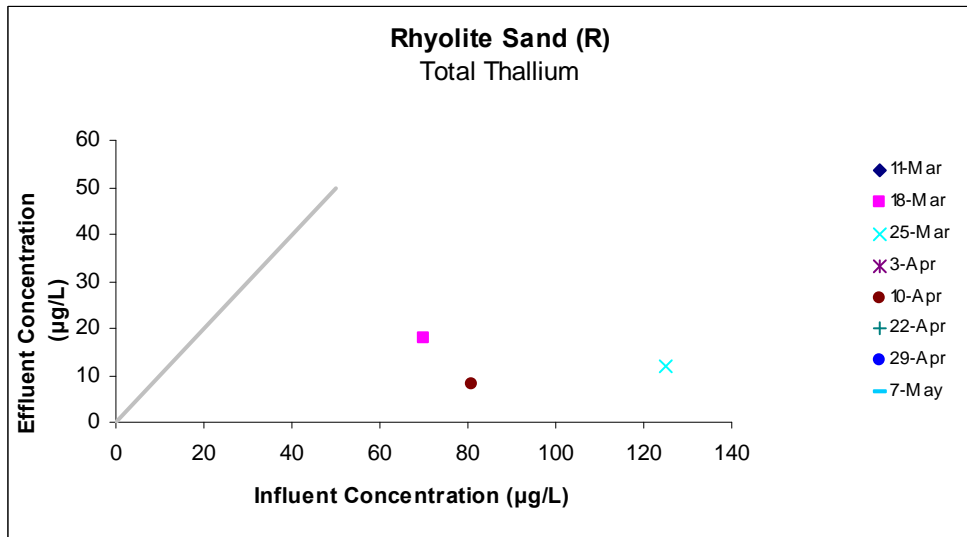
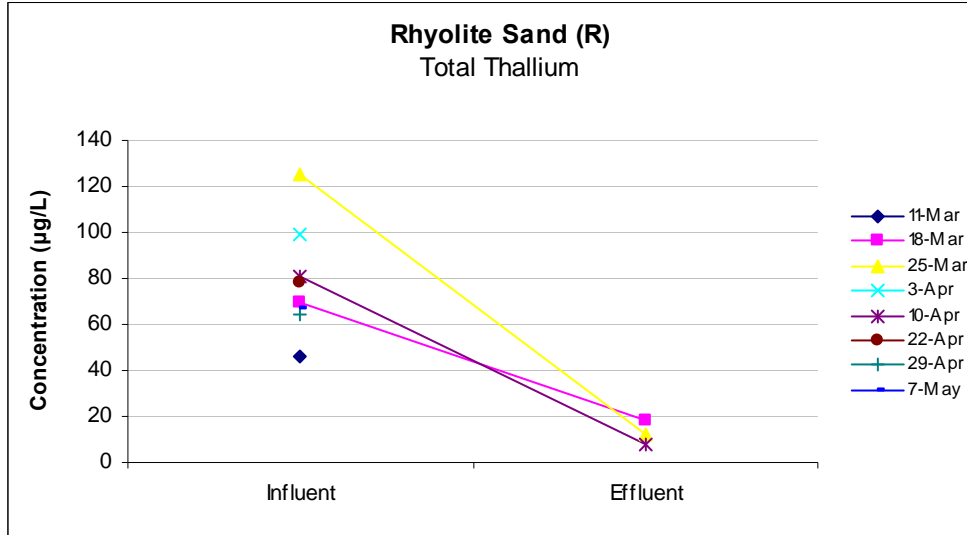
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	21.417	-12.417
2	23.735	-10.735
3	21.417	32.583
4	17.940	-1.940
5	21.417	-10.417
6	19.099	5.901
7	9.828	-1.828
8	12.146	-1.146



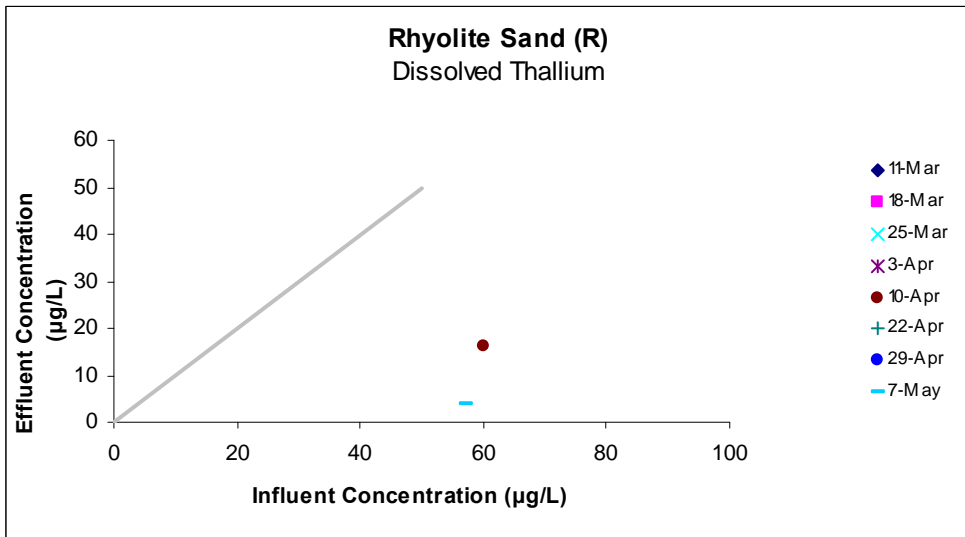
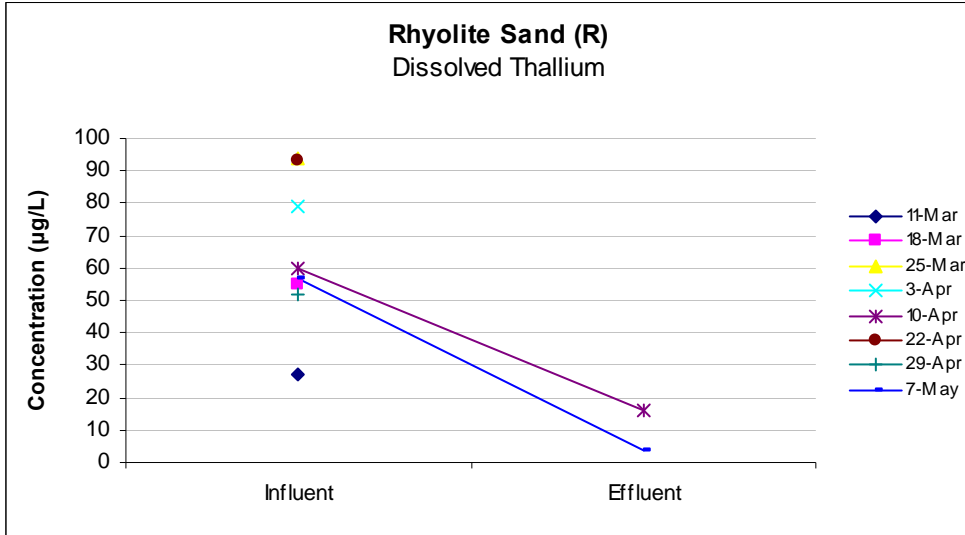


Total Tl





Dissolved Tl



# Total Sb

Rhyolite Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.865
R Square	0.748
Adjusted R Square	0.606
Standard Error	35.929
Observations	8.000

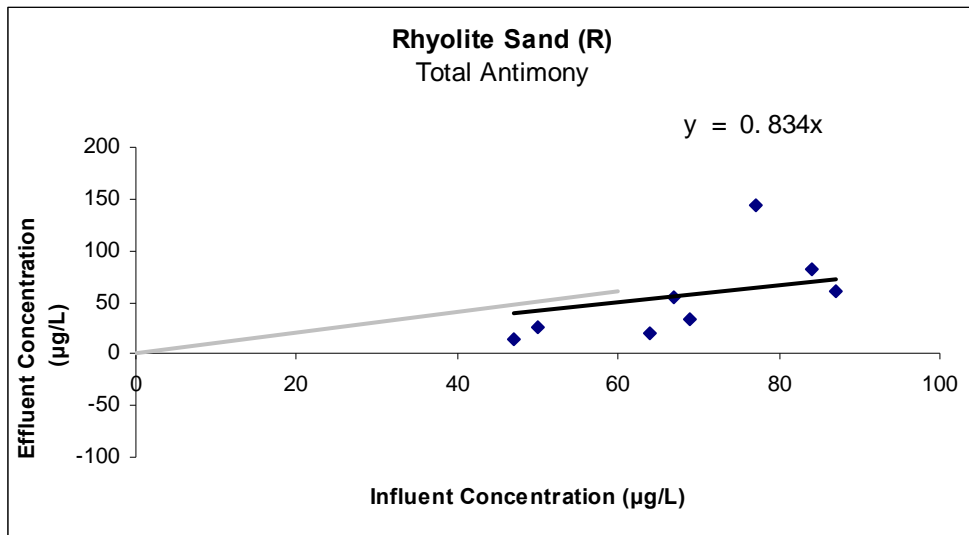
## ANOVA

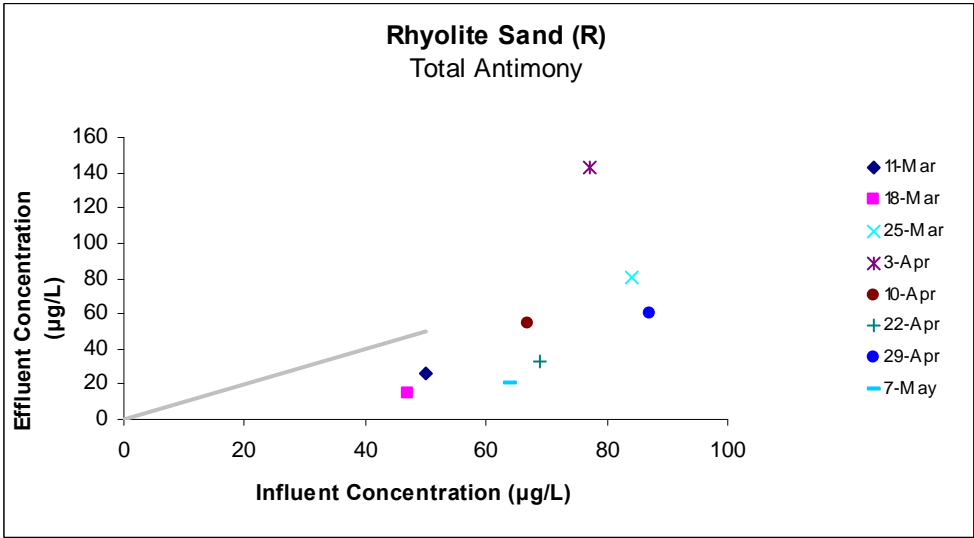
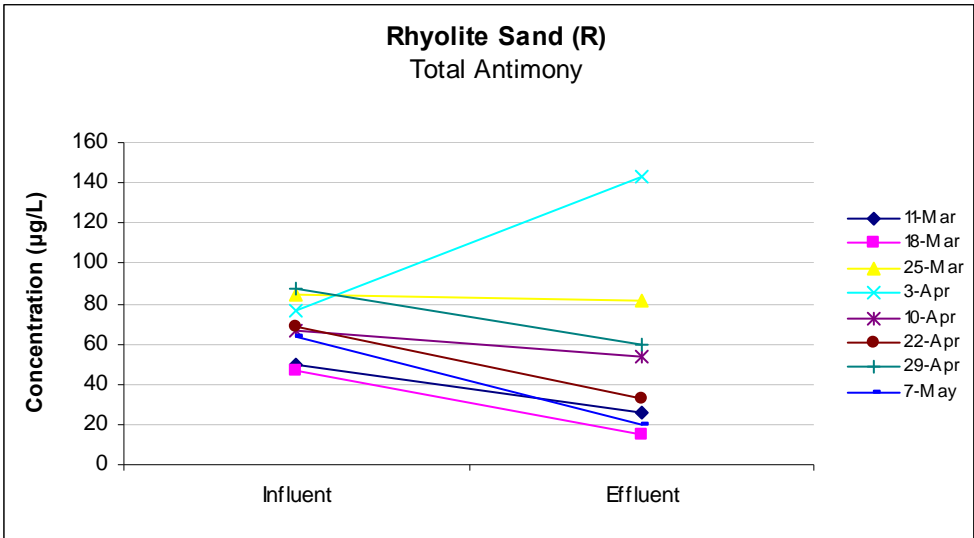
	df	SS	MS	F	Significance F
Regression	1.000	26879.904	26879.904	20.823	0.004
Residual	7.000	9036.096	1290.871		
Total	8.000	35916.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	0.834	0.183	4.563	0.003	0.402	1.267	0.402	1.267

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	41.720	-15.720
2	39.216	-24.216
3	70.089	10.911
4	64.248	78.752
5	55.904	-1.904
6	57.573	-24.573
7	72.592	-12.592
8	53.401	-33.401





# Dissolved Sb

Rhyolite Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.191
R Square	0.036
Adjusted R Square	-0.156
Standard Error	43.581
Observations	7.000

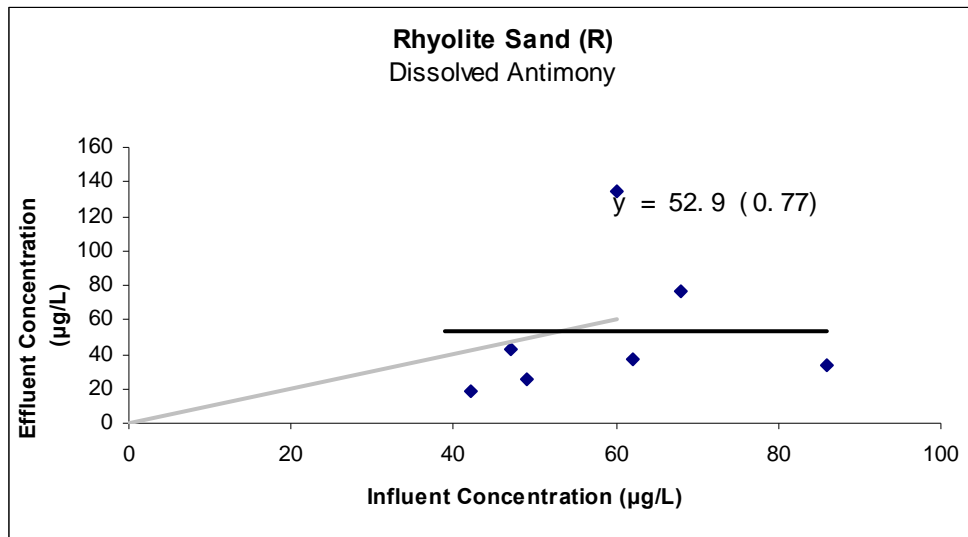
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	358.216	358.216	0.189	0.682
Residual	5.000	9496.641	1899.328		
Total	6.000	9854.857			

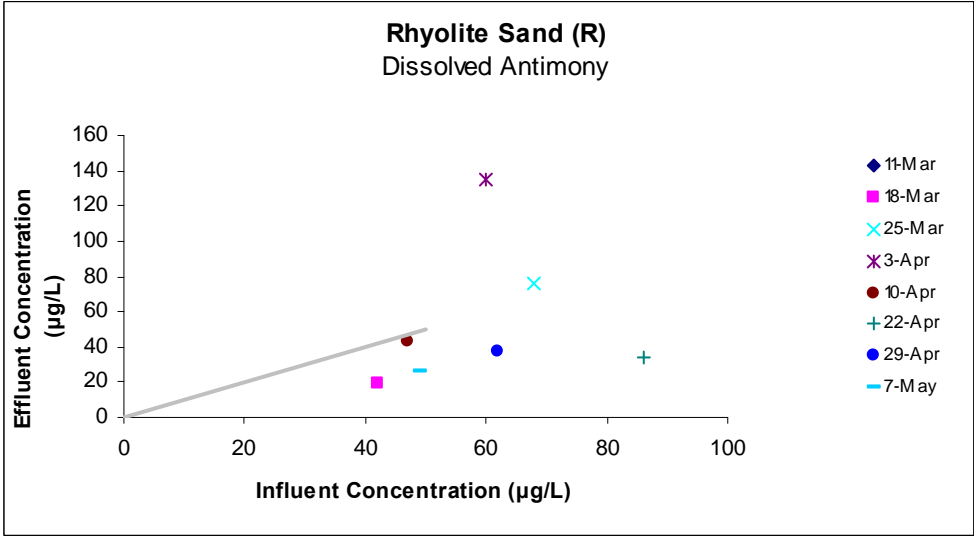
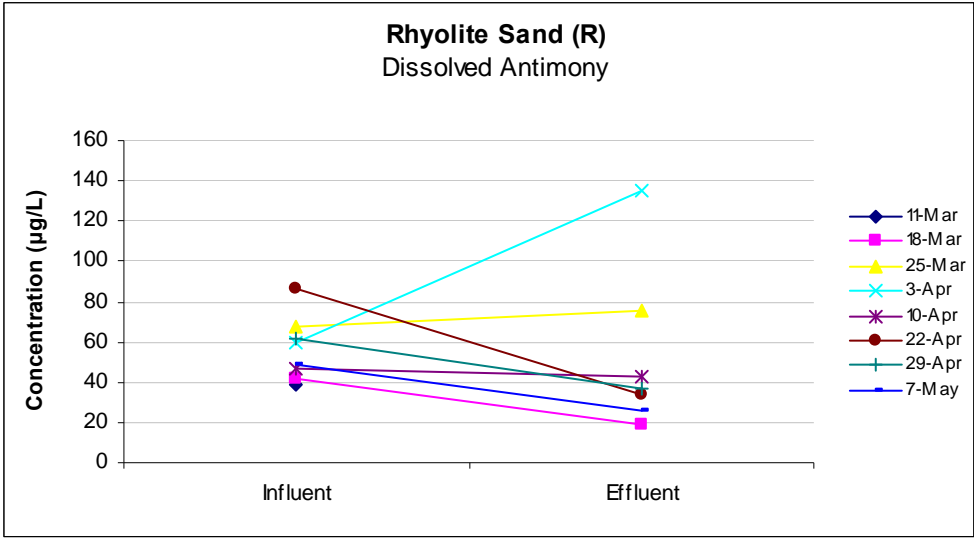
  

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	22.424	71.987	0.311	0.768	-162.625	207.473	-162.625	207.473
X Variable 1	0.515	1.185	0.434	0.682	-2.531	3.560	-2.531	3.560

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	44.036	-25.036
2	57.415	18.585
3	53.298	81.702
4	46.609	-3.609
5	66.677	-32.677
6	54.327	-17.327
7	47.638	-21.638





## Site Sand (S)

### As Total

MWH Sand

#### SUMMARY OUTPUT

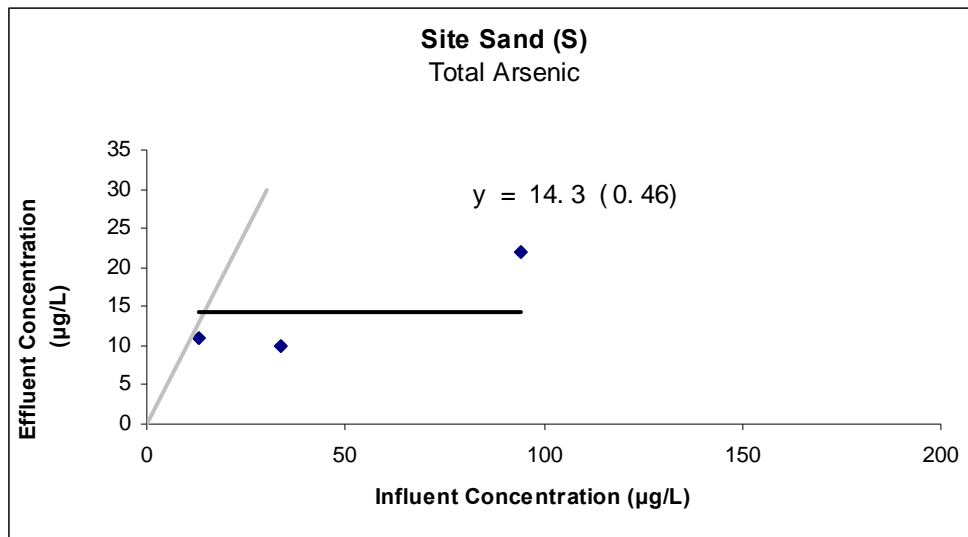
Regression Statistics	
Multiple R	0.947
R Square	0.896
Adjusted R Square	0.793
Standard Error	3.030
Observations	3.000

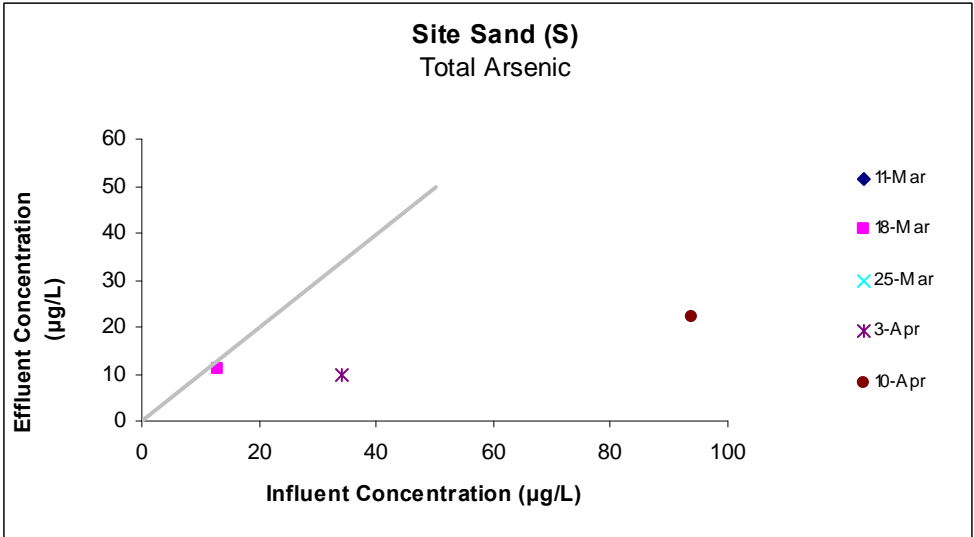
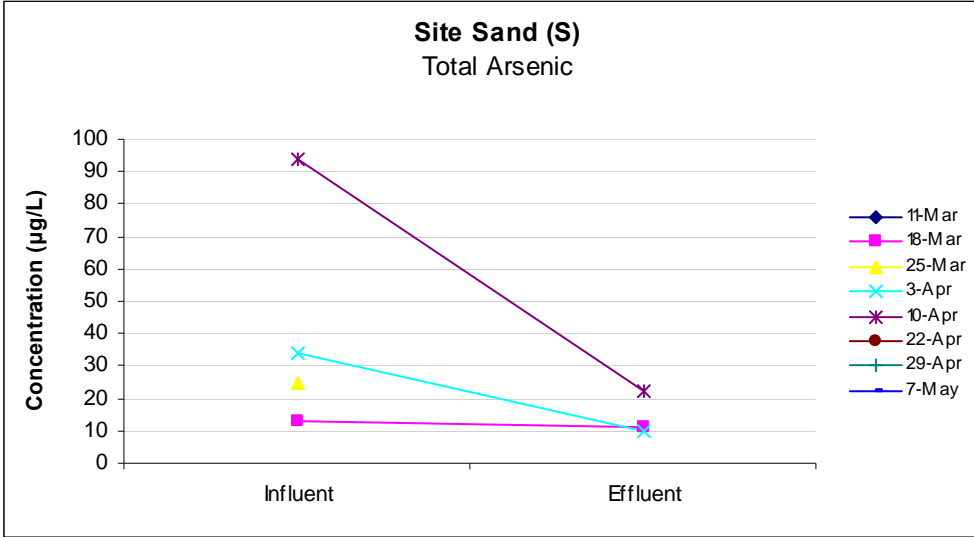
ANOVA						
	df	SS	MS	F	Significance F	
Regression	1.000	79.485	79.485	8.657	0.209	
Residual	1.000	9.182	9.182			
Total	2.000	88.667				

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	7.285	2.966	2.456	0.246	-30.407	44.977	-30.407	44.977
X Variable 1	0.150	0.051	2.942	0.209	-0.498	0.798	-0.498	0.798

#### RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	9.234	1.766
2	12.384	-2.384
3	21.382	0.618





# Dissolved As

MWH Sand

## SUMMARY OUTPUT

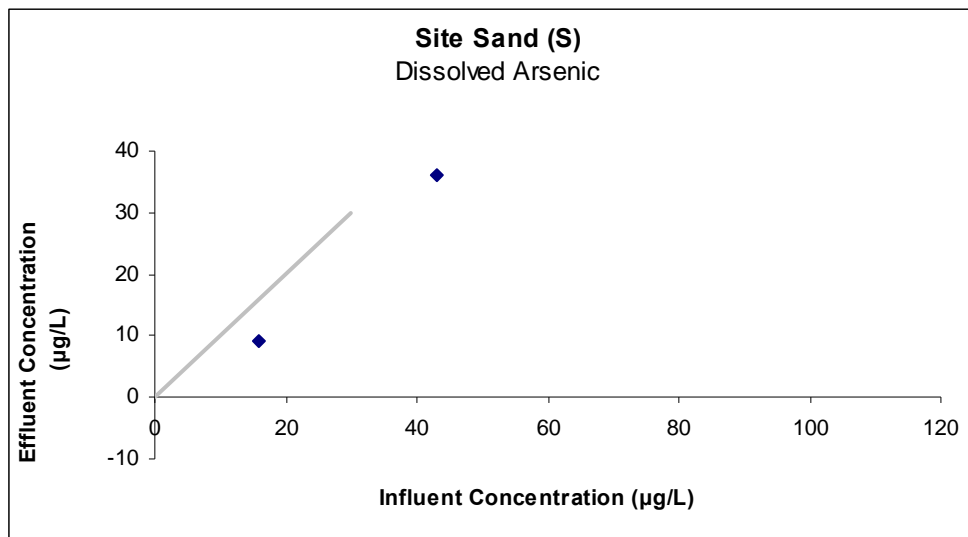
Regression Statistics	
Multiple R	1
R Square	1
Adjusted R Square	65535
Standard Error	0
Observations	2

ANOVA						
	df	SS	MS	F	Significance F	
Regression	1	364.5	364.5	#NUM!	#NUM!	
Residual	0	0	65535			
Total	1	364.5				

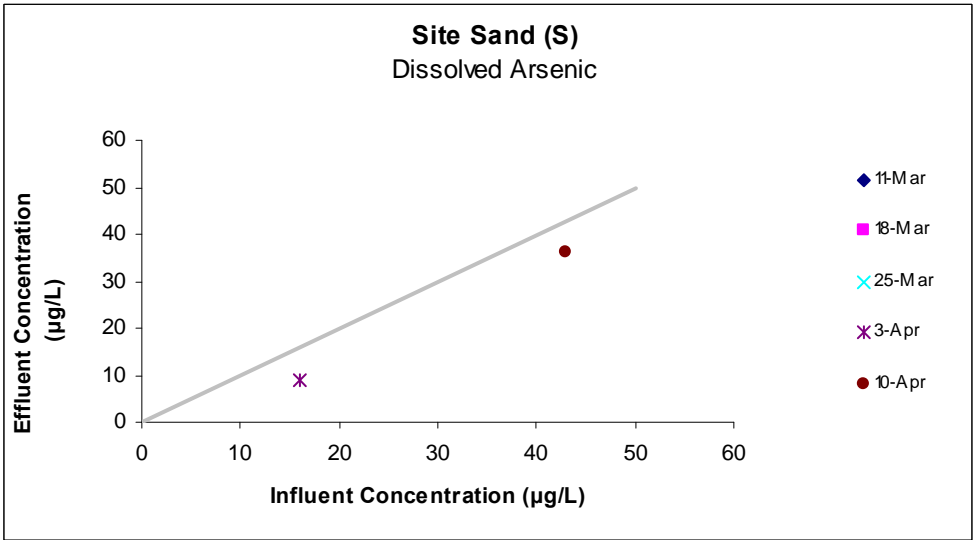
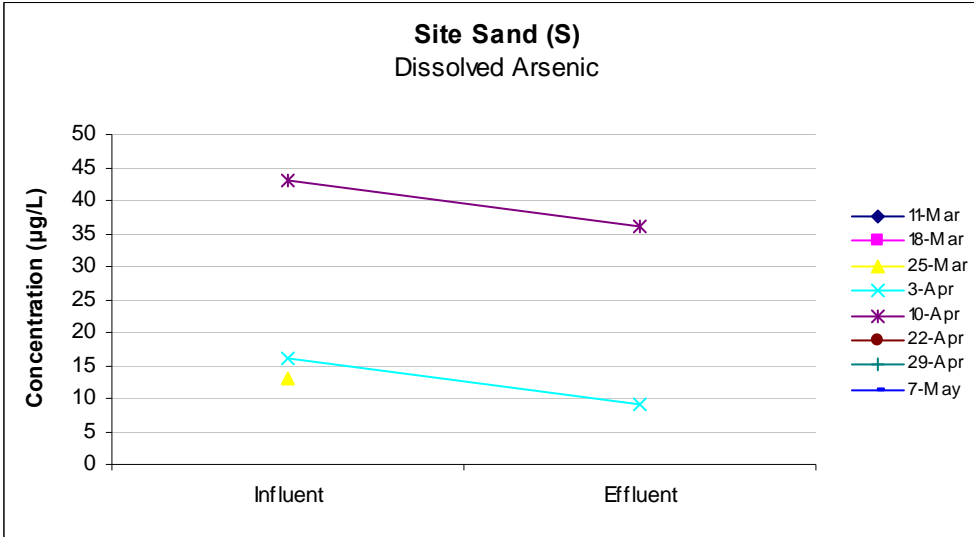
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-7	0	65535	#NUM!	-7	-7	-7	-7
X Variable 1	1	0	65535	#NUM!	1	1	1	1

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	9	-3.55271E-15
2	36	0







# Total Al

MWH Sand

## SUMMARY OUTPUT

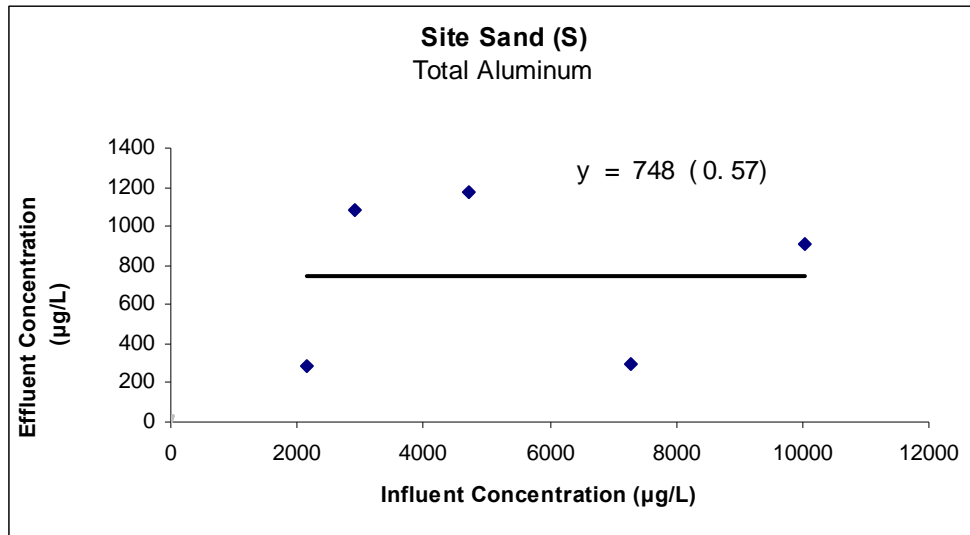
Regression Statistics	
Multiple R	0.048
R Square	0.002
Adjusted R Square	-0.330
Standard Error	495.418
Observations	5.000

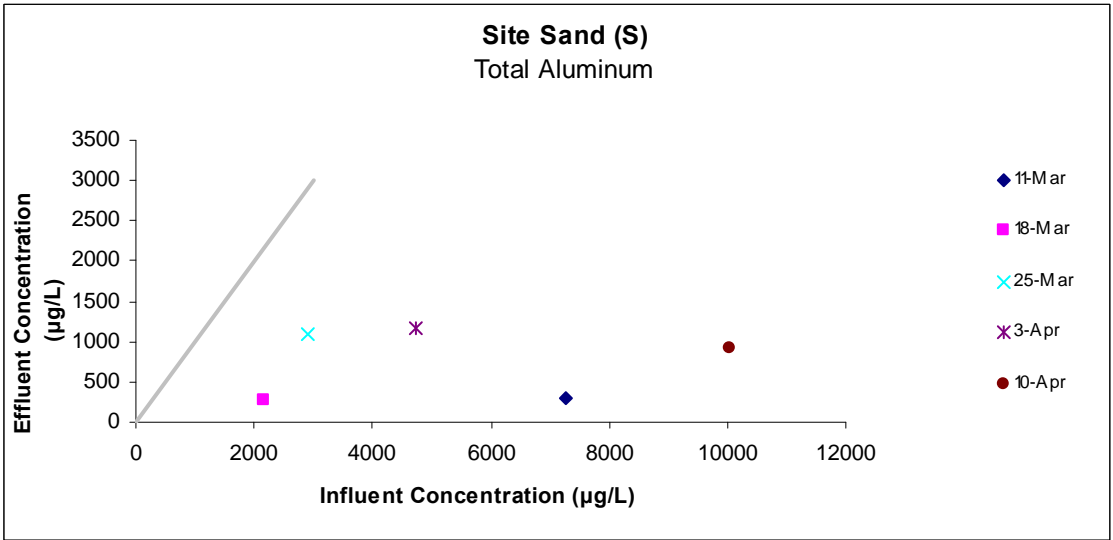
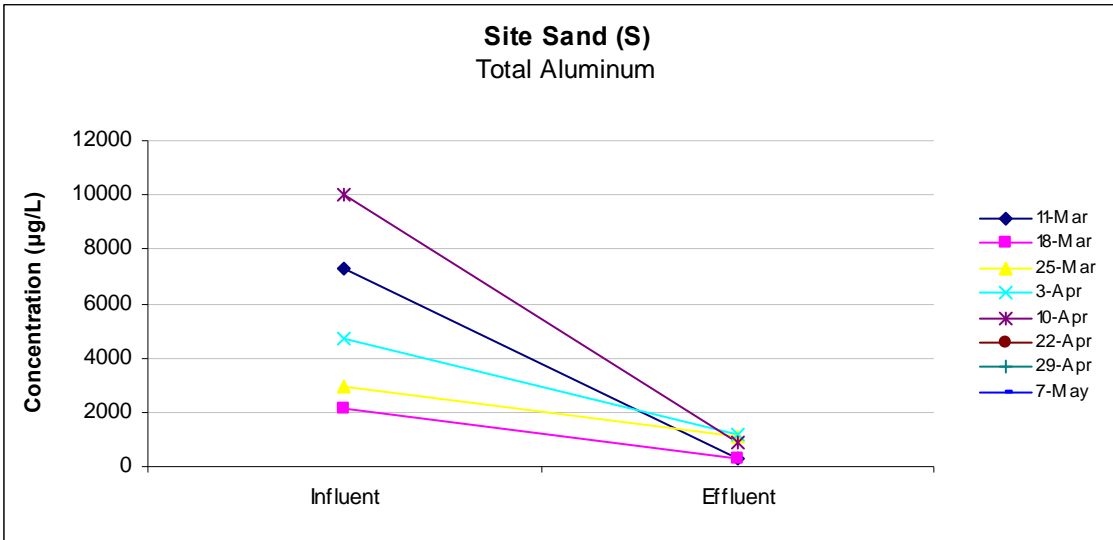
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	1733.117	1733.117	0.007	0.938
Residual	3.000	736317.683	245439.228		
Total	4.000	738050.800			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	714.056	469.085	1.522	0.225	-778.783	2206.895	-778.783	2206.895
X Variable 1	0.006	0.076	0.084	0.938	-0.236	0.249	-0.236	0.249

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	760.679	-464.679
2	727.867	-443.867
3	732.699	353.301
4	744.375	426.625
5	778.380	128.620





# Dissolved Al

MWH Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.940
R Square	0.884
Adjusted R Square	0.826
Standard Error	8.894
Observations	4.000

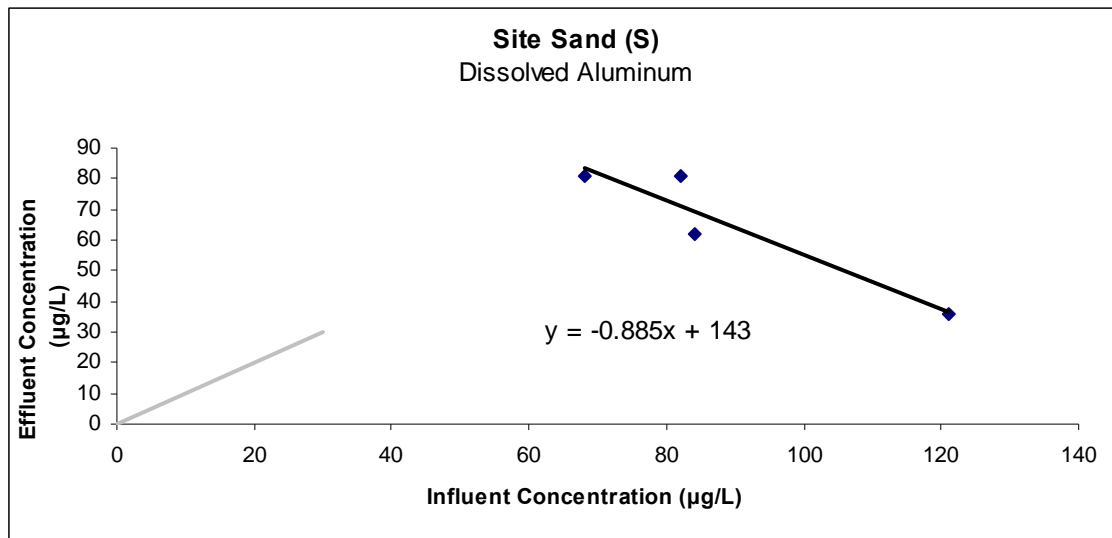
## ANOVA

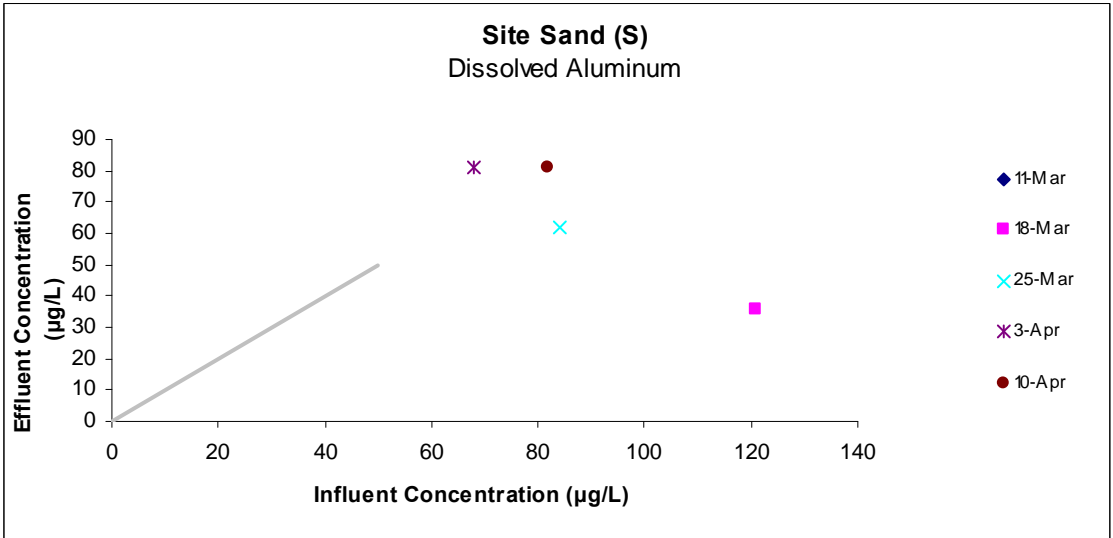
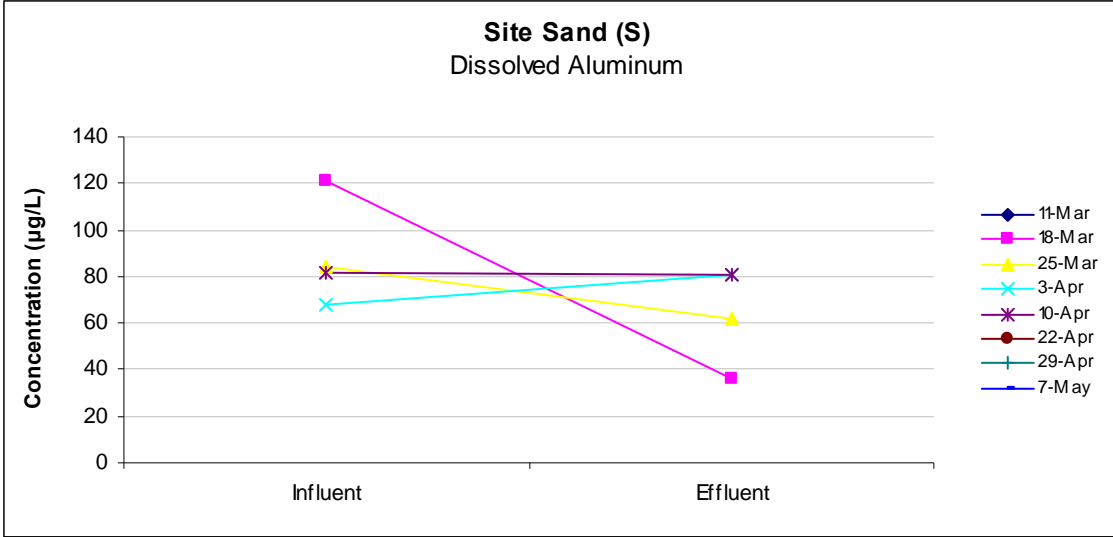
	df	SS	MS	F	Significance F
Regression	1.000	1203.783	1203.783	15.217	0.080
Residual	2.000	158.217	79.109		
Total	3.000	1362.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	143.498	20.609	6.963	0.020	54.826	232.170	54.826	232.170
X Variable 1	-0.884	0.227	-3.901	0.060	-1.860	0.091	-1.860	0.091

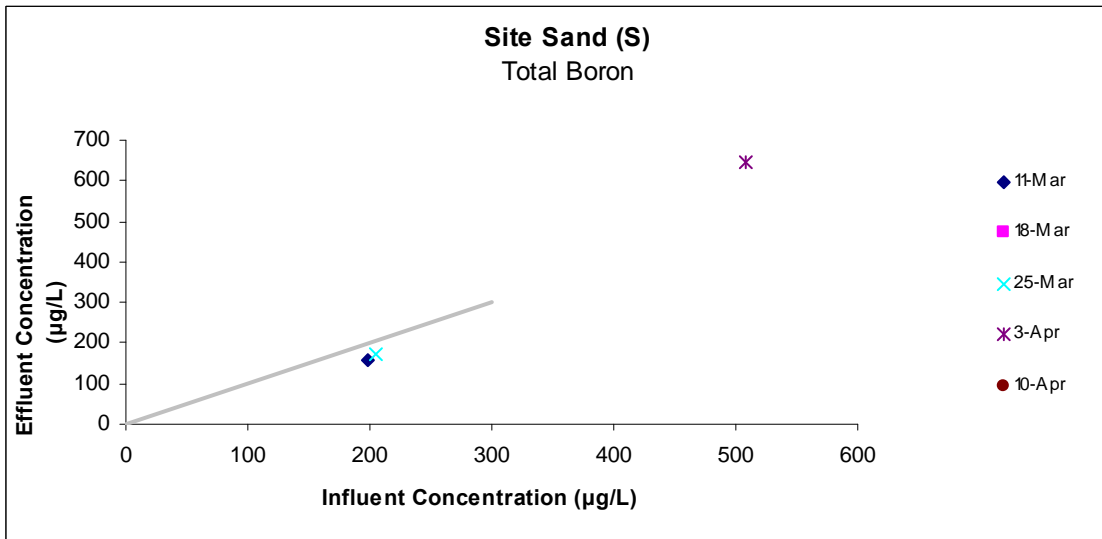
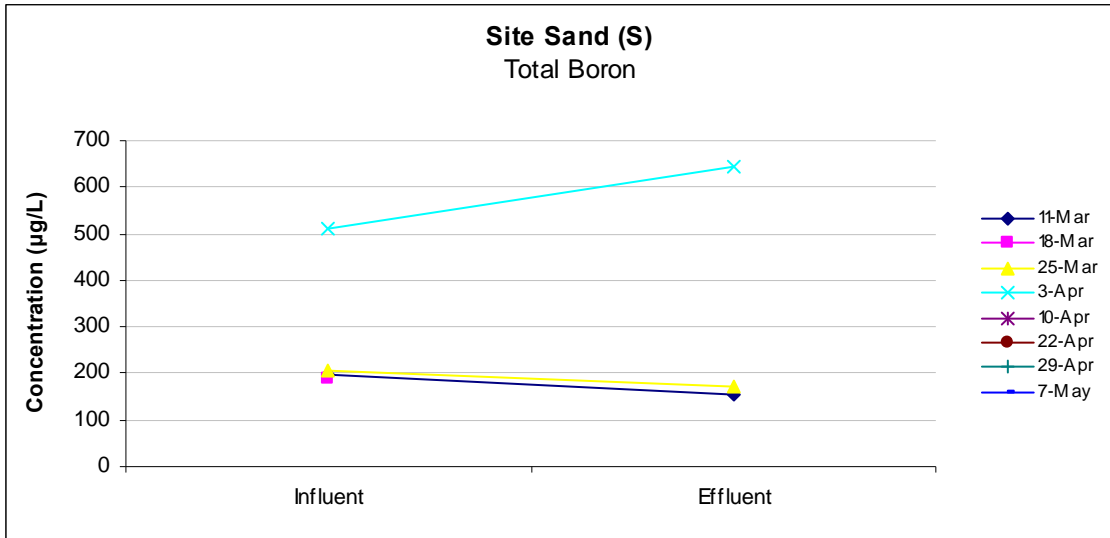
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	36.475	-0.475
2	69.201	-7.201
3	83.353	-2.353
4	70.970	10.030

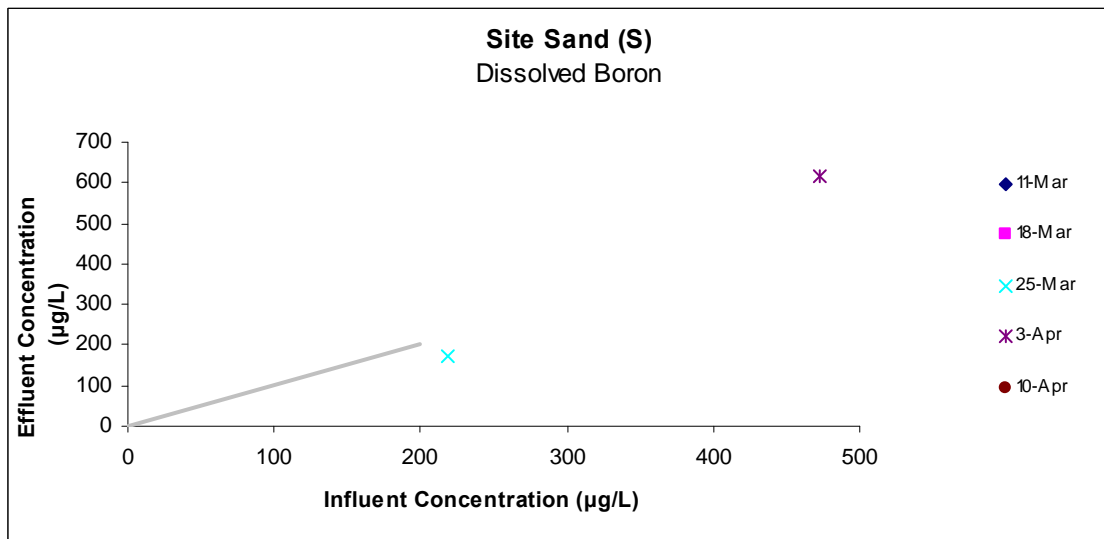
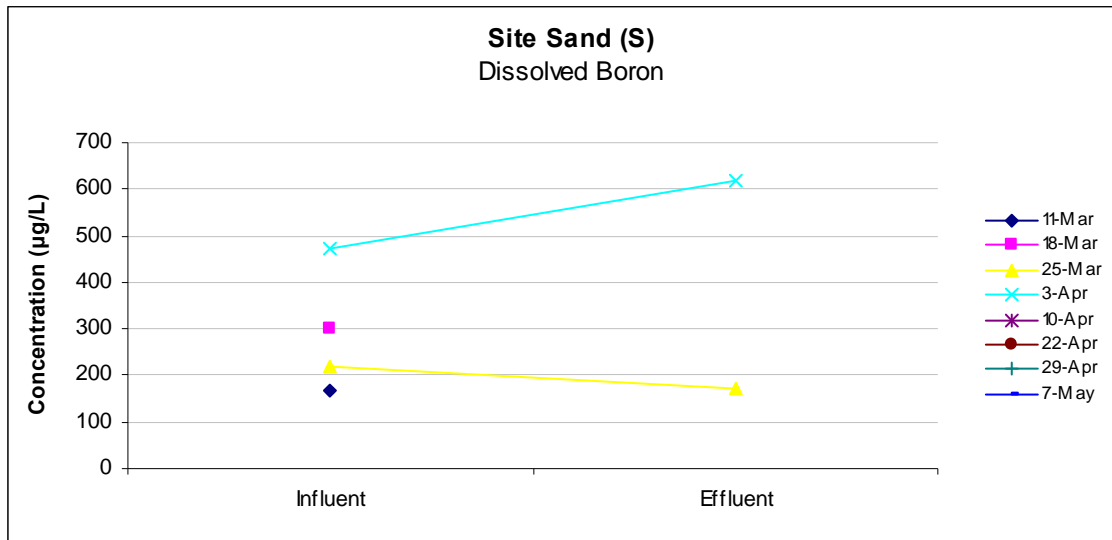




Total B



Dissolved B



# Total Ca

MWH Sand

## SUMMARY OUTPUT

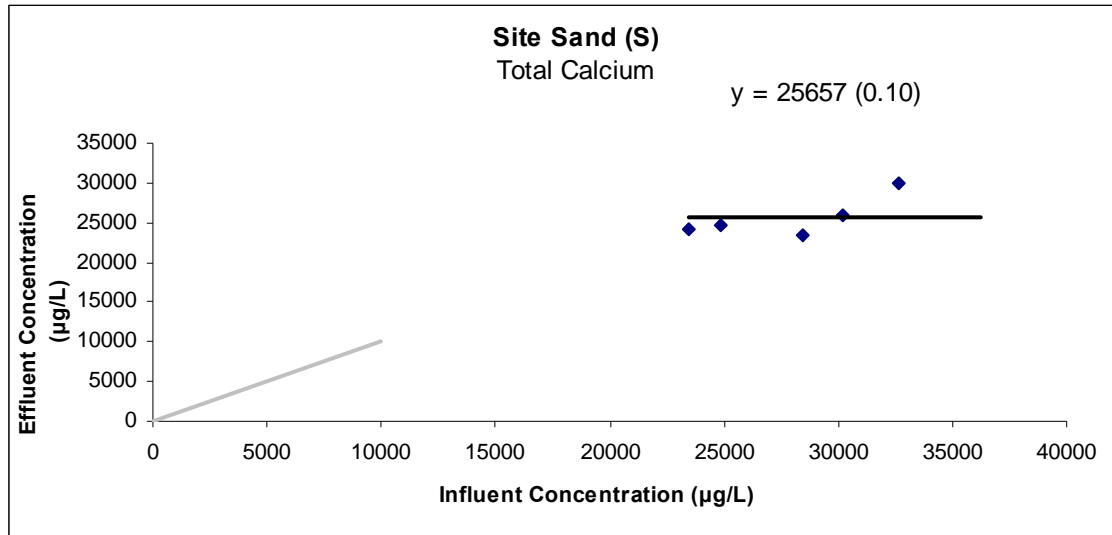
Regression Statistics	
Multiple R	0.761
R Square	0.579
Adjusted R Square	0.438
Standard Error	1926.646
Observations	5.000

ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	15296838.185	15296838.185	4.118	0.135
Residual	3.000	11135898.615	3711966.205		
Total	4.000	26422736.800			

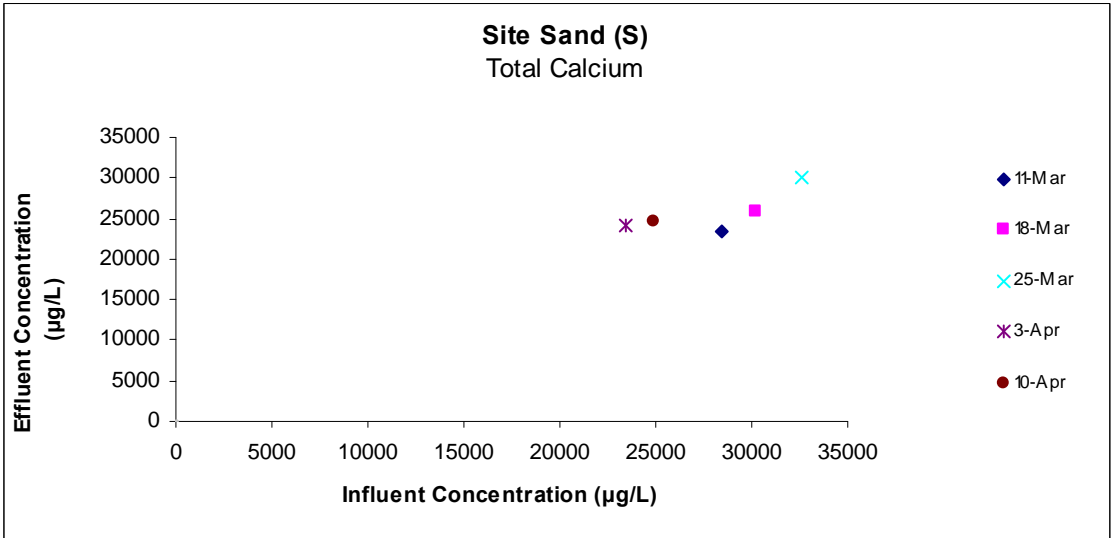
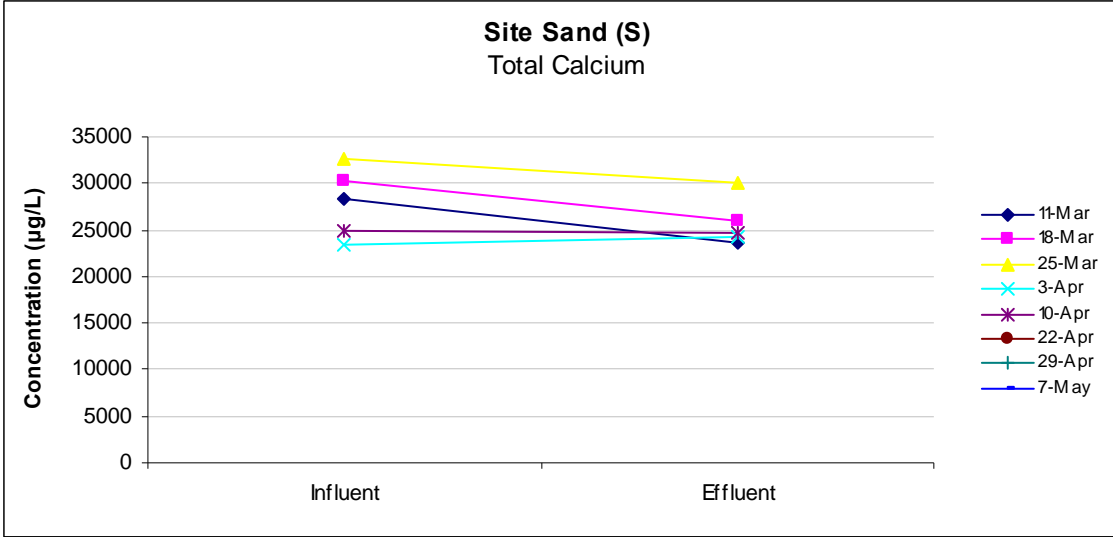
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	11189.396	7190.944	1.553	0.218	-11715.398	34054.189	-11715.398	34054.189
X Variable 1	0.519	0.256	2.029	0.135	-0.295	1.333	-0.295	1.333

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	25915.481	-2386.481
2	26843.694	-925.694
3	28103.449	1877.551
4	23352.388	838.612
5	24070.988	596.012







# Dissolved Ca

MWH Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.351
R Square	0.123
Adjusted R Square	-0.169
Standard Error	14709.912
Observations	5.000

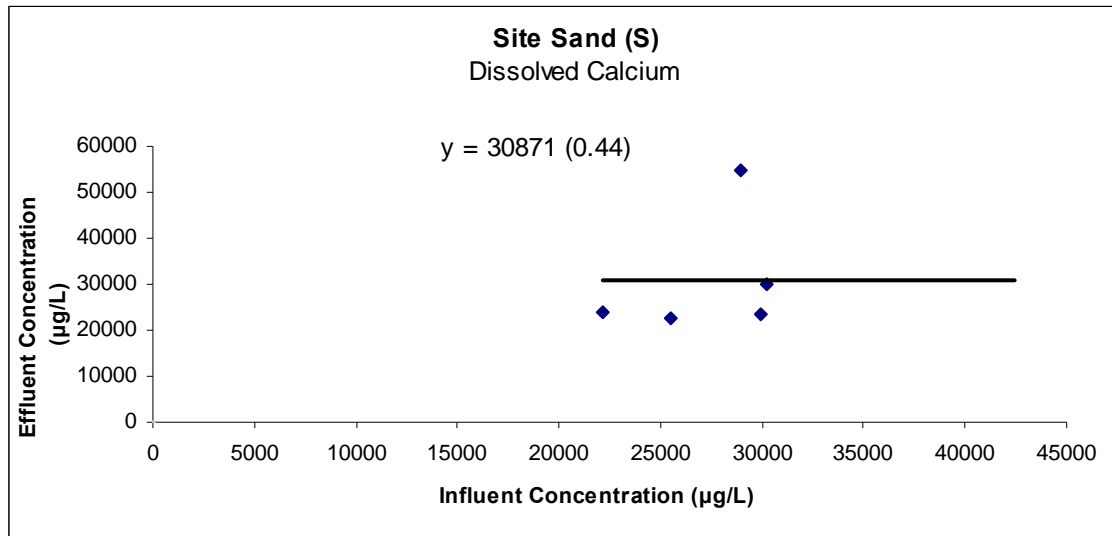
## ANOVA

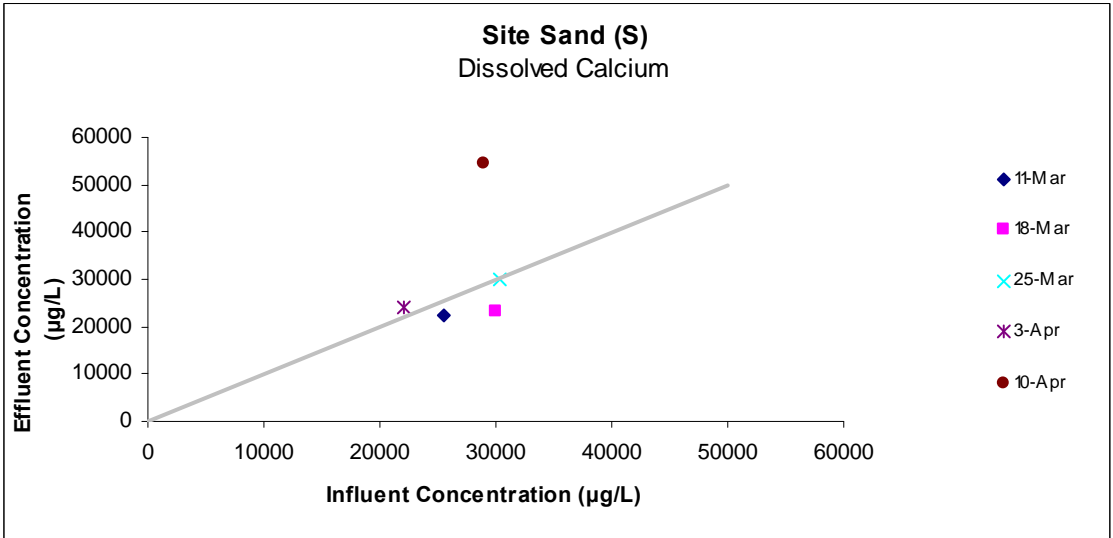
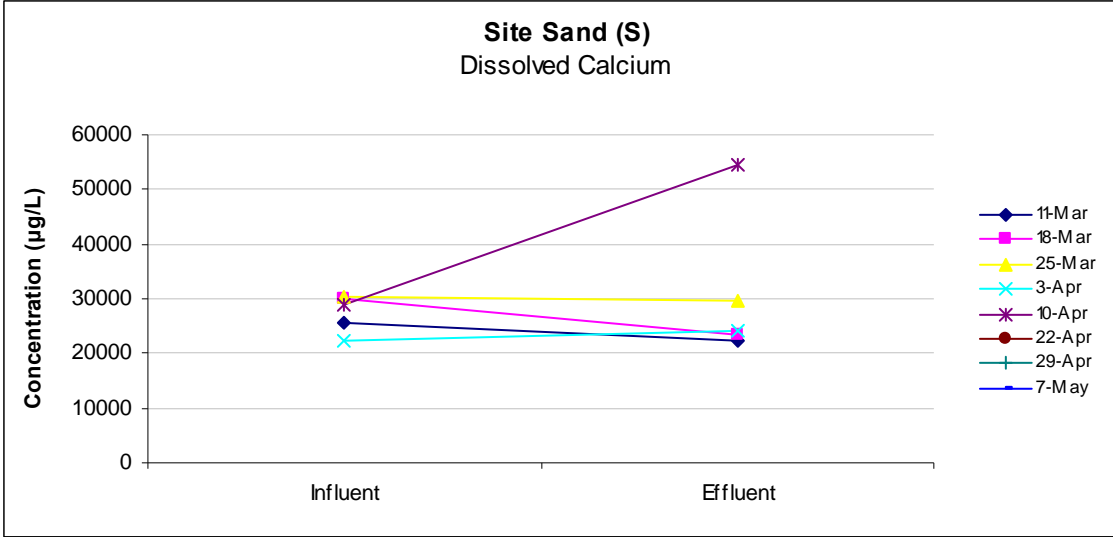
	df	SS	MS	F	Significance F
Regression	1.000	90976292.299	90976292.299	0.420	0.563
Residual	3.000	649144508.901	216381502.967		
Total	4.000	740120801.200			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-6604.570	58168.096	-0.114	0.917	-191721.412	178512.272	-191721.412	178512.272
X Variable 1	1.369	2.111	0.648	0.563	-5.350	8.088	-5.350	8.088

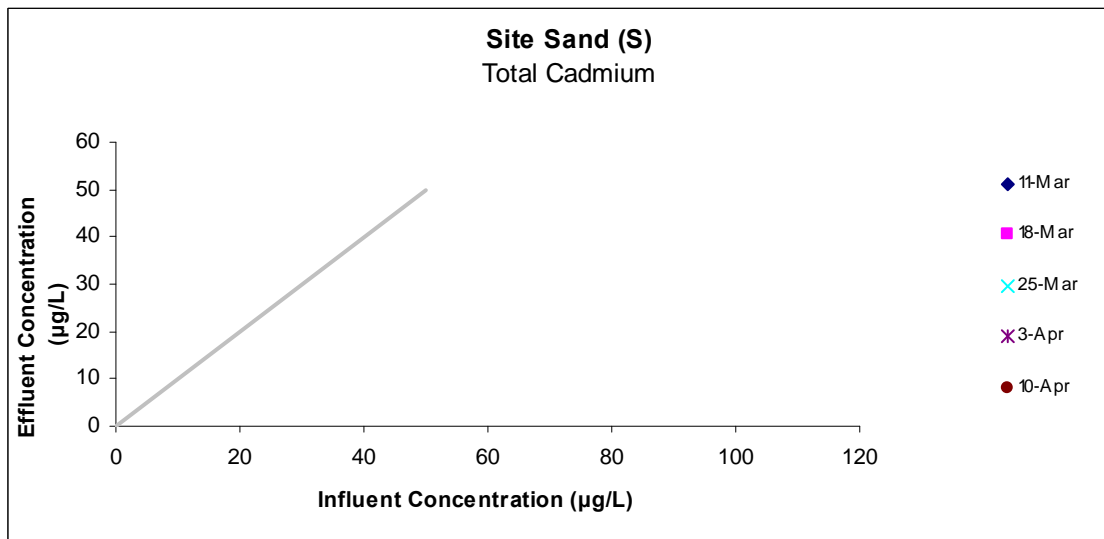
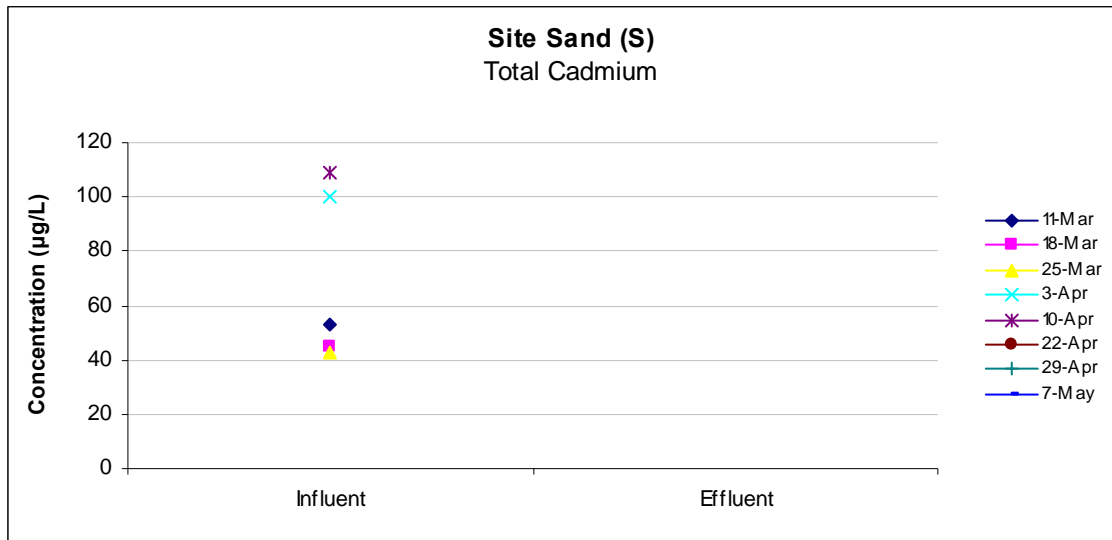
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	28307.727	-5914.727
2	34443.836	-11053.836
3	34829.910	-5035.910
4	23715.913	407.087
5	33055.613	21597.387

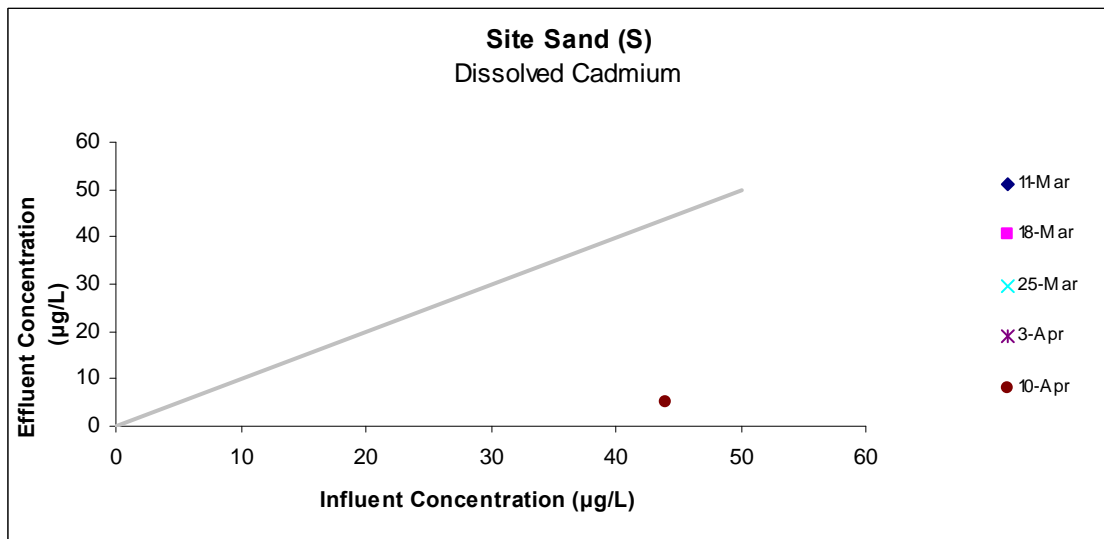
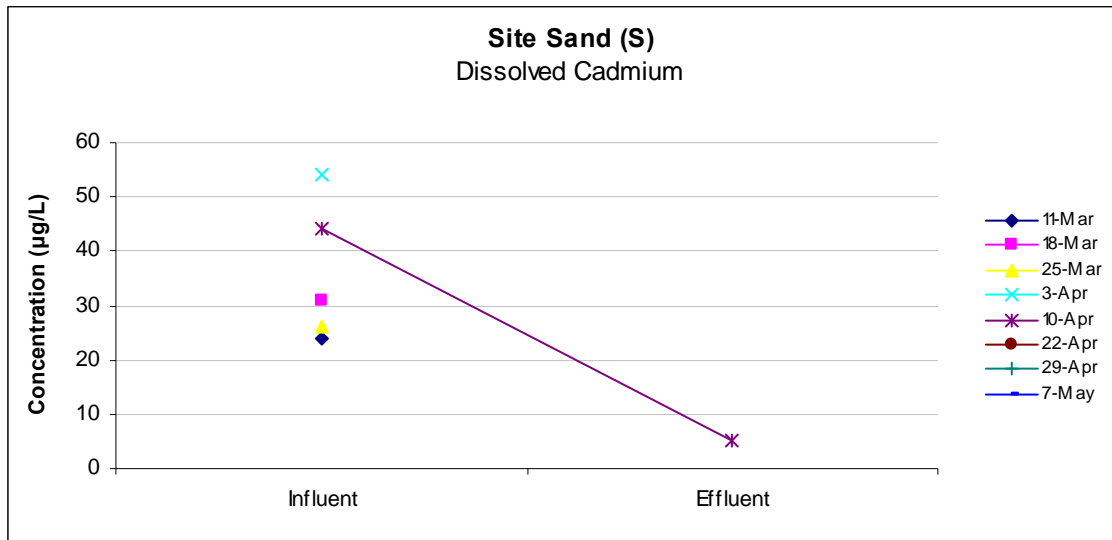




Total Cd



Dissolved Cd



# Total Cu

MWH Sand

## SUMMARY OUTPUT

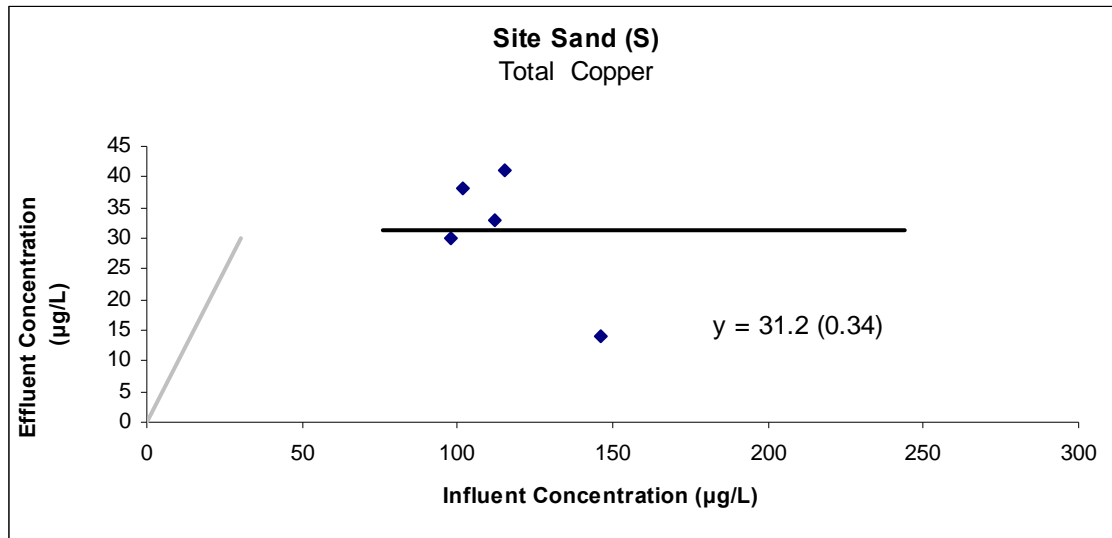
Regression Statistics	
Multiple R	0.763
R Square	0.582
Adjusted R Square	0.443
Standard Error	7.652
Observations	5.000

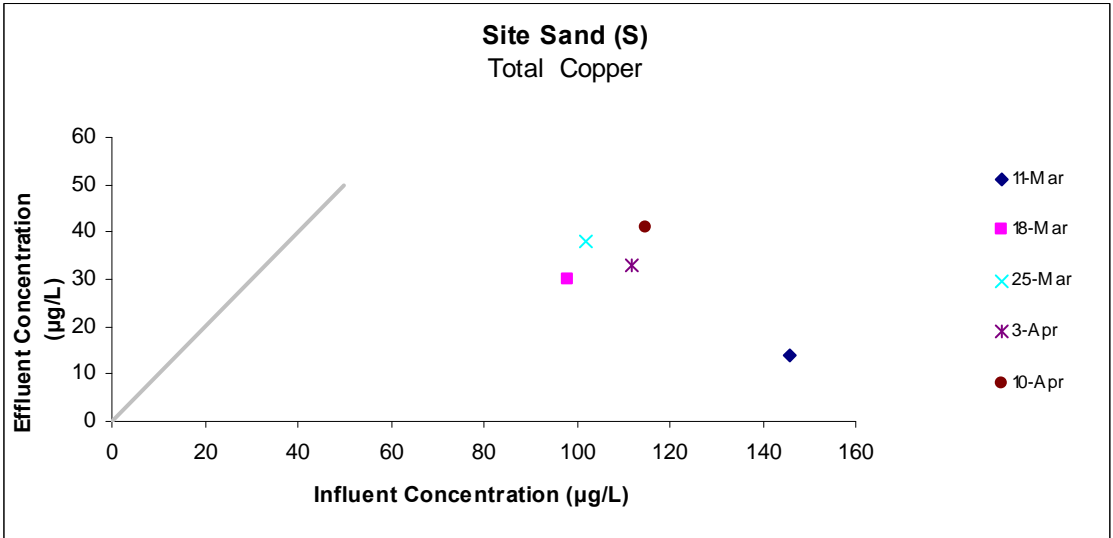
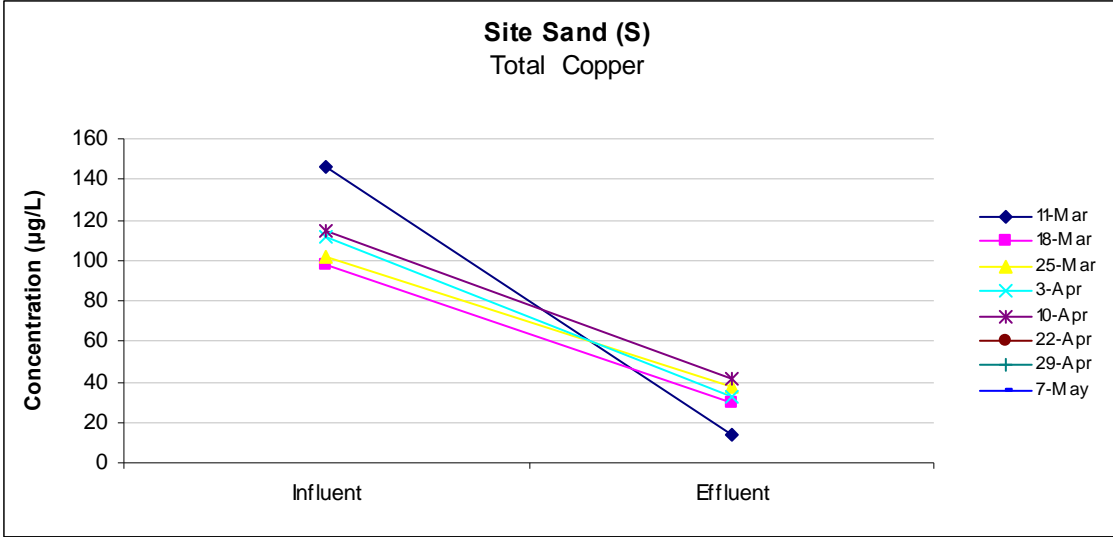
ANOVA						
	df	SS	MS	F	Significance F	
Regression	1.000	257.822	257.822	4.181	0.133	
Residual	3.000	184.978	61.659			
Total	4.000	442.800				

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	79.908	24.077	3.319	0.045	3.283	156.533	3.283	156.533
X Variable 1	-0.425	0.208	-2.045	0.133	-1.087	0.236	-1.087	0.236

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	17.854	-3.854
2	38.255	-8.255
3	38.555	1.445
4	32.305	0.695
5	31.030	9.970





# Dissolved Cu

MWH Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.783
R Square	0.613
Adjusted R Square	0.484
Standard Error	13.435
Observations	5.000

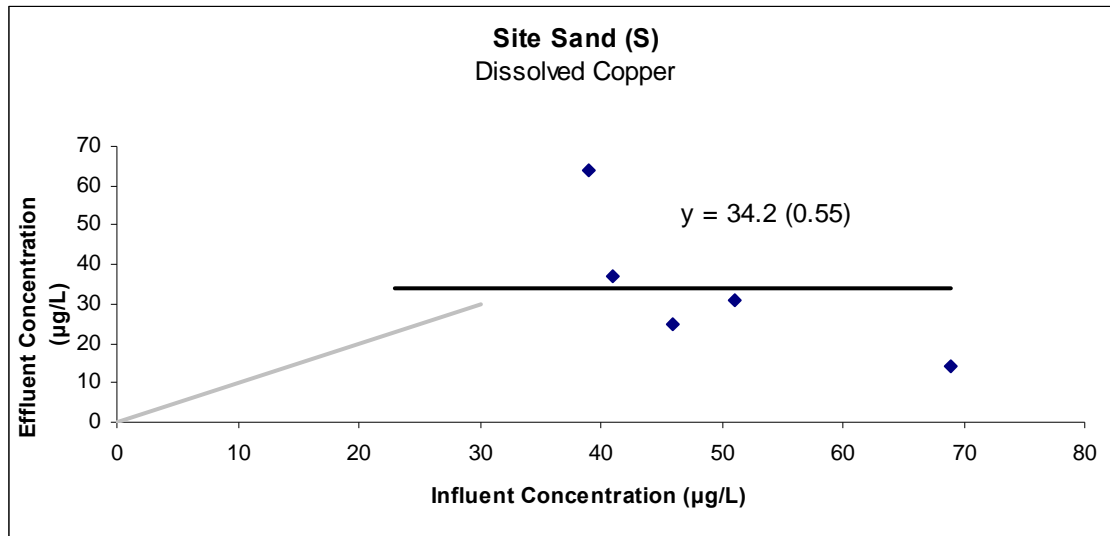
## ANOVA

	df	SS	MS	F	Significance F
Regression	1.000	857.299	857.299	4.750	0.117
Residual	3.000	541.501	180.500		
Total	4.000	1398.800			

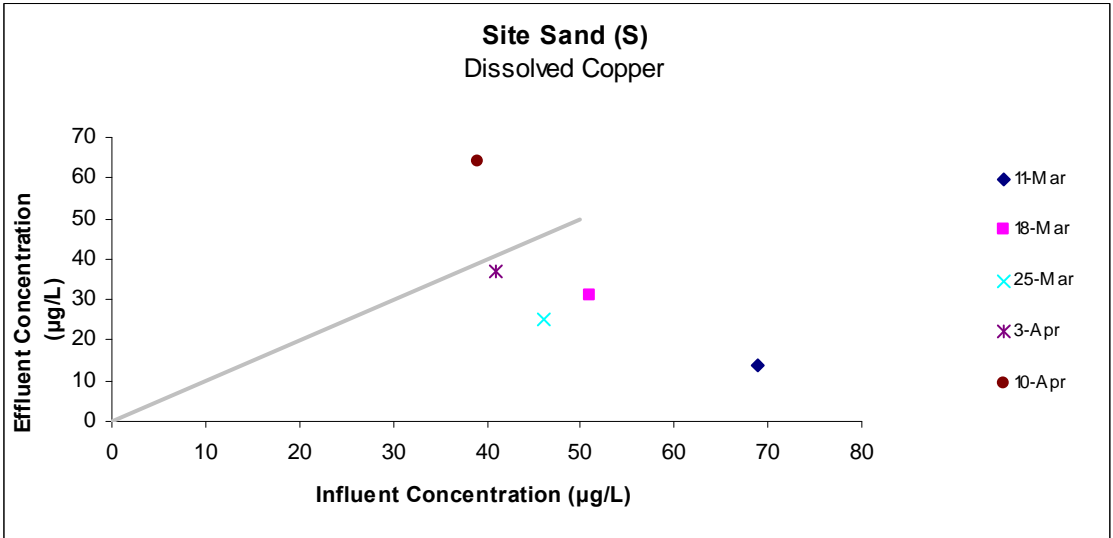
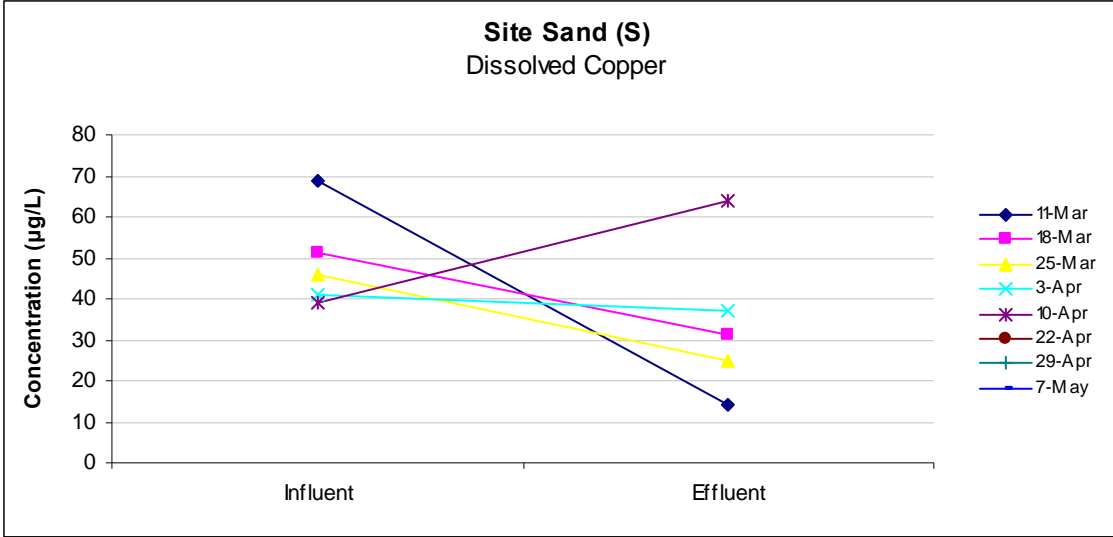
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	94.182	28.171	3.343	0.044	4.529	183.834	4.529	183.834
X Variable 1	-1.219	0.559	-2.179	0.117	-2.999	0.561	-2.999	0.561

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	10.061	3.939
2	32.006	-1.006
3	38.101	-13.101
4	44.197	-7.197
5	46.635	17.365







# Total Fe

MWH Sand

## SUMMARY OUTPUT

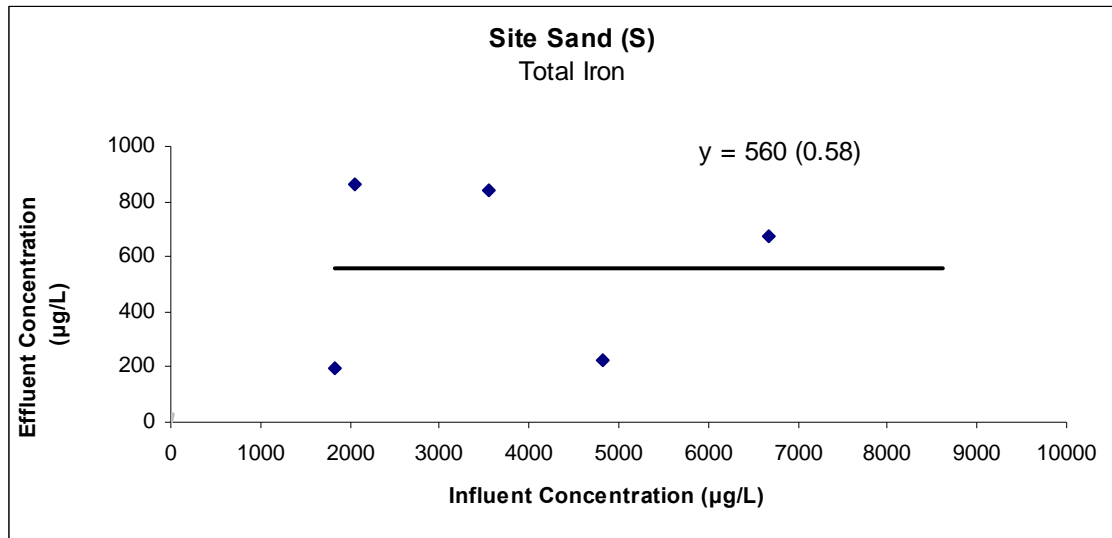
Regression Statistics	
Multiple R	0.038
R Square	0.001
Adjusted R Square	-0.331
Standard Error	376.572
Observations	5.000

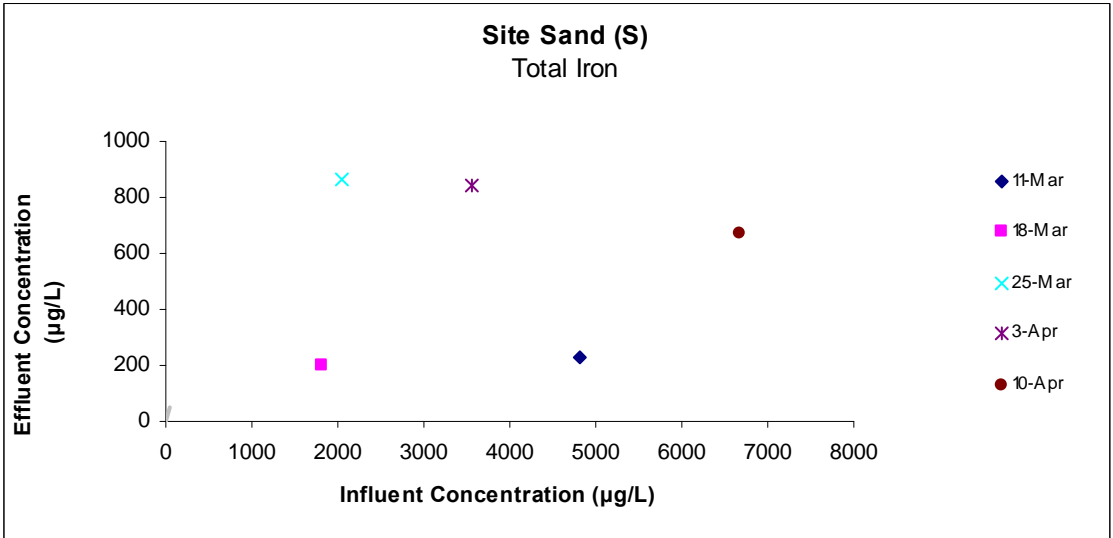
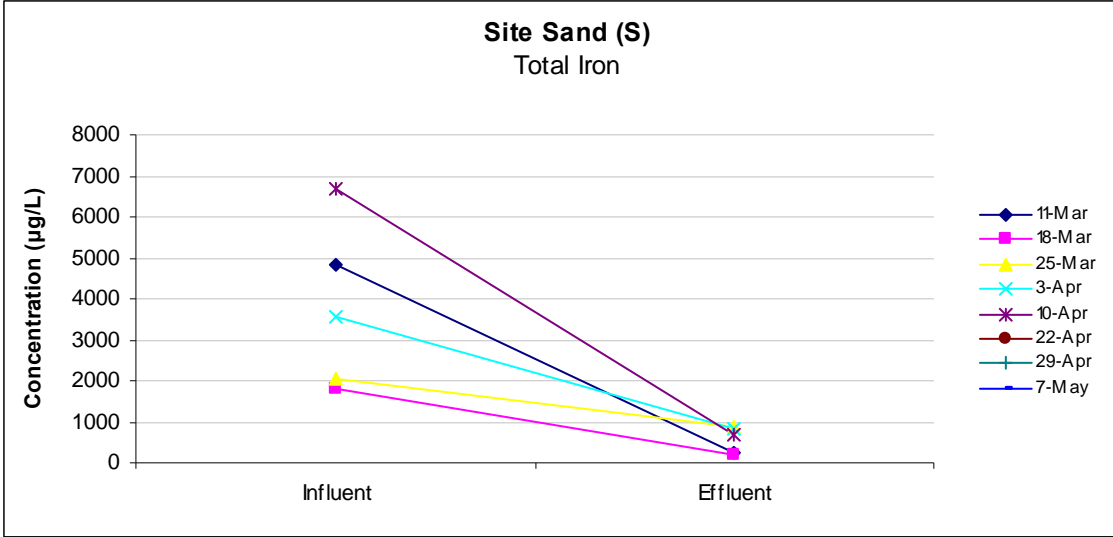
ANOVA						
	df	SS	MS	F	Significance F	
Regression	1.000	631.311	631.311	0.004	0.951	
Residual	3.000	425419.489	141806.496			
Total	4.000	426050.800				

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	537.312	390.236	1.377	0.262	-704.592	1779.216	-704.592	1779.216
X Variable 1	0.006	0.093	0.067	0.951	-0.290	0.302	-0.290	0.302

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	567.173	-339.173
2	548.608	-350.608
3	550.024	312.976
4	559.396	284.604
5	578.799	92.201





# Dissolved Fe

MWH Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.794
R Square	0.630
Adjusted R Square	0.506
Standard Error	9.045
Observations	5.000

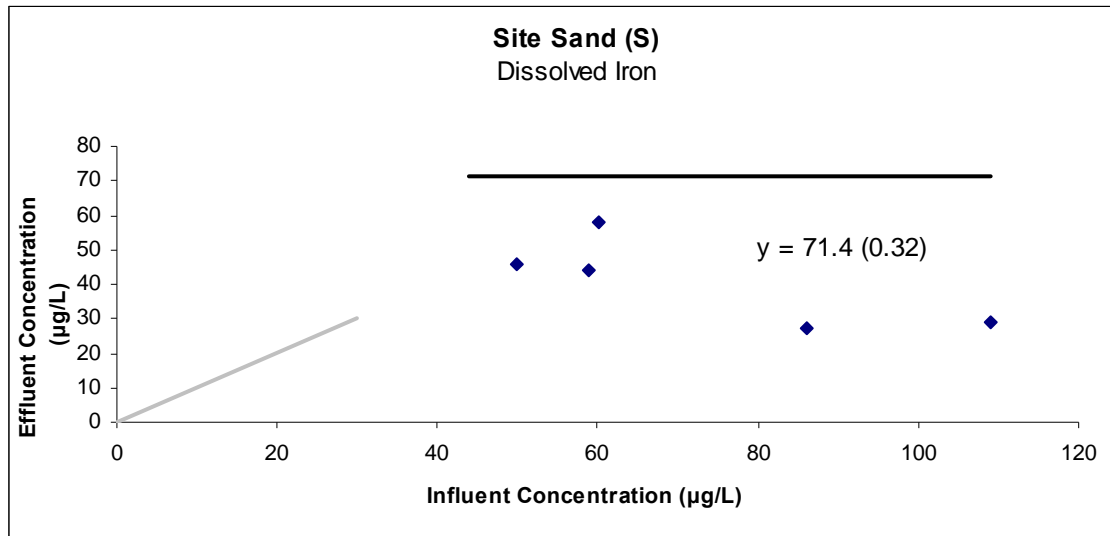
## ANOVA

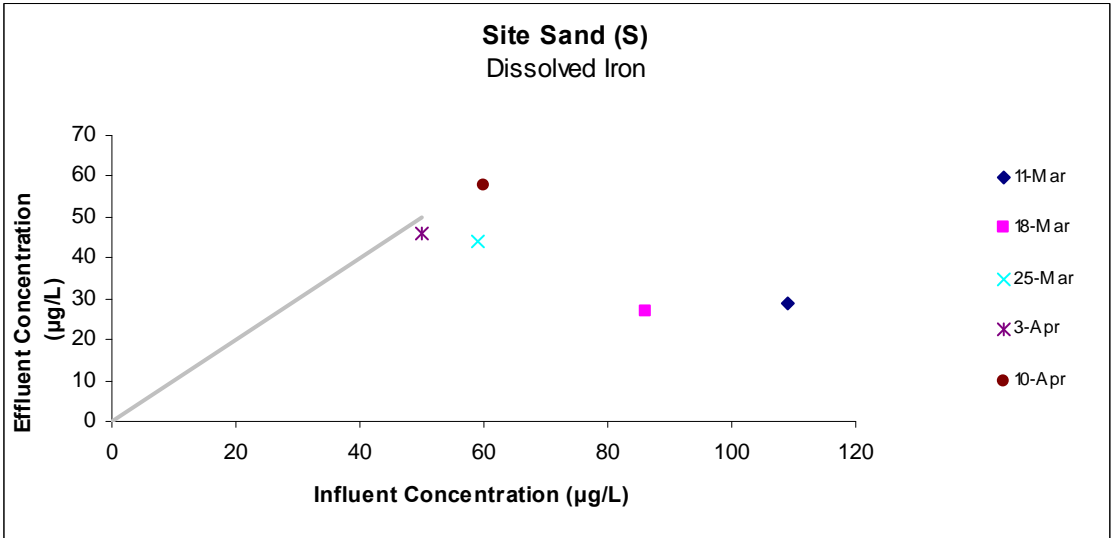
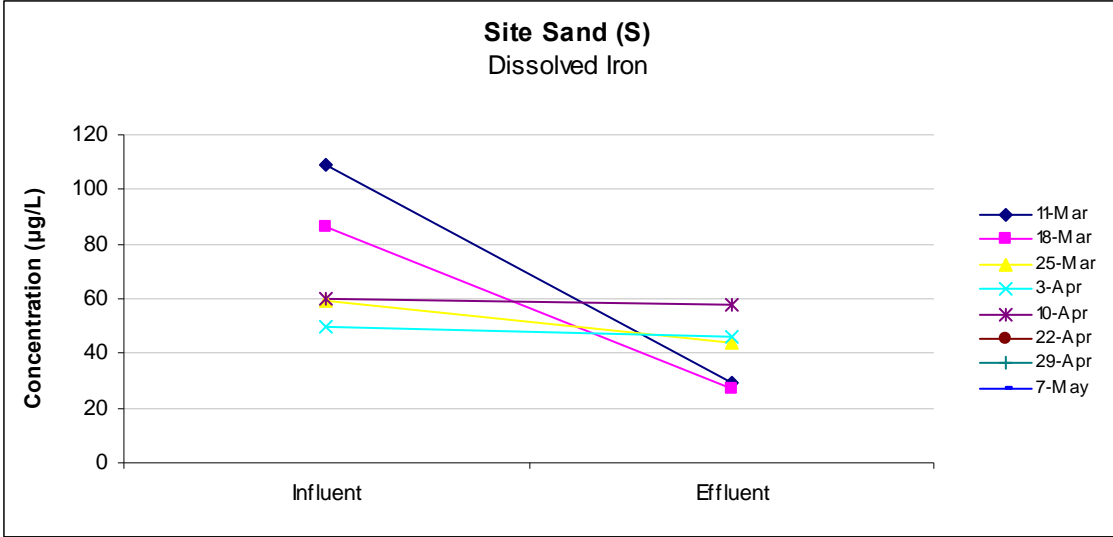
	df	SS	MS	F	Significance F
Regression	1.000	417.357	417.357	5.101	0.109
Residual	3.000	245.443	81.814		
Total	4.000	662.800			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	71.422	14.149	5.048	0.015	26.395	116.450	26.395	116.450
X Variable 1	-0.421	0.186	-2.259	0.109	-1.013	0.172	-1.013	0.172

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	25.573	3.427
2	35.248	-8.248
3	46.605	-2.605
4	50.391	-4.391
5	46.184	11.816





# Total Mg

MWH Sand

## SUMMARY OUTPUT

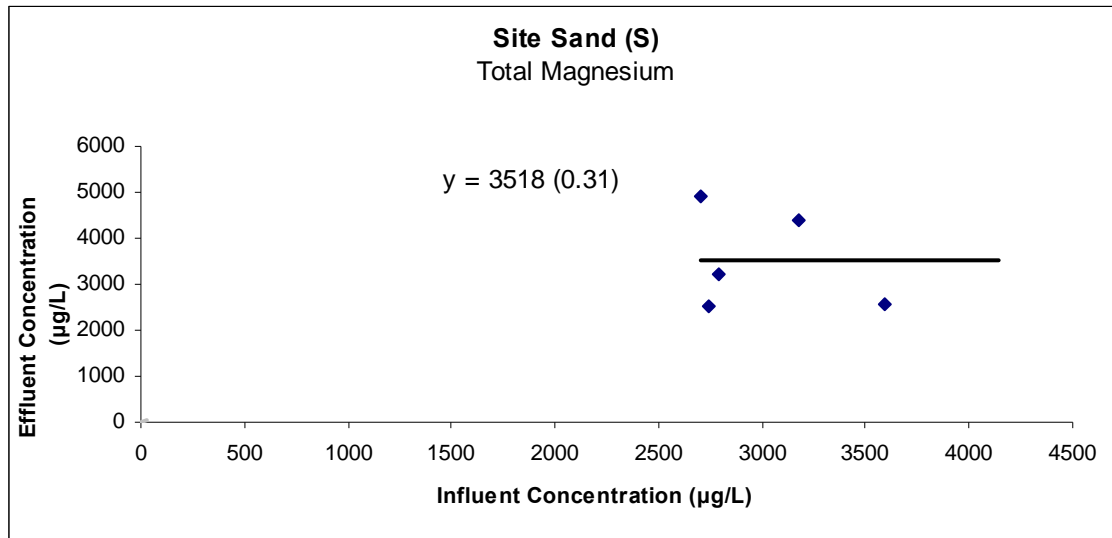
Regression Statistics	
Multiple R	0.308
R Square	0.095
Adjusted R Square	-0.207
Standard Error	1193.217
Observations	5.000

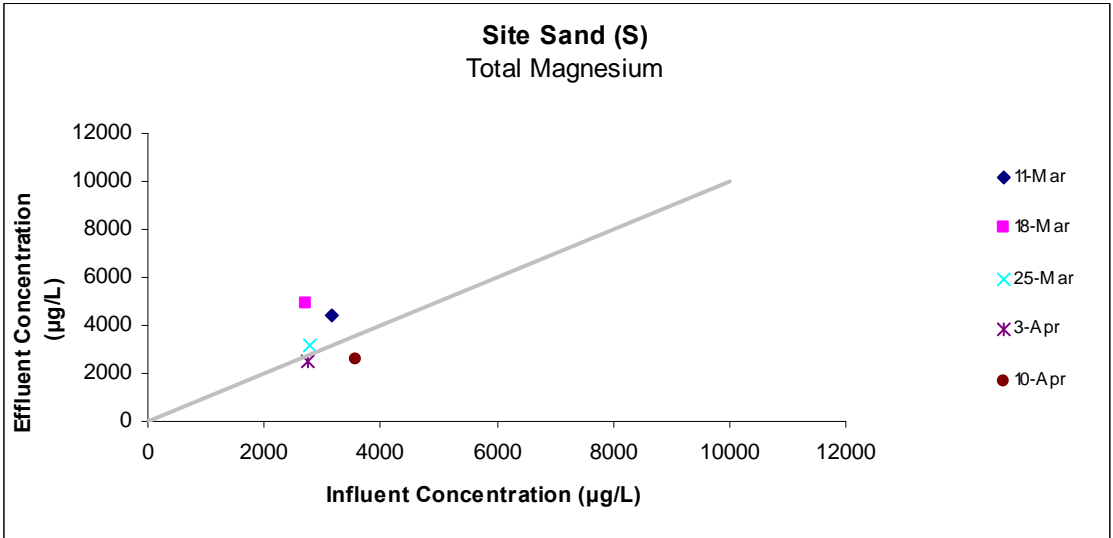
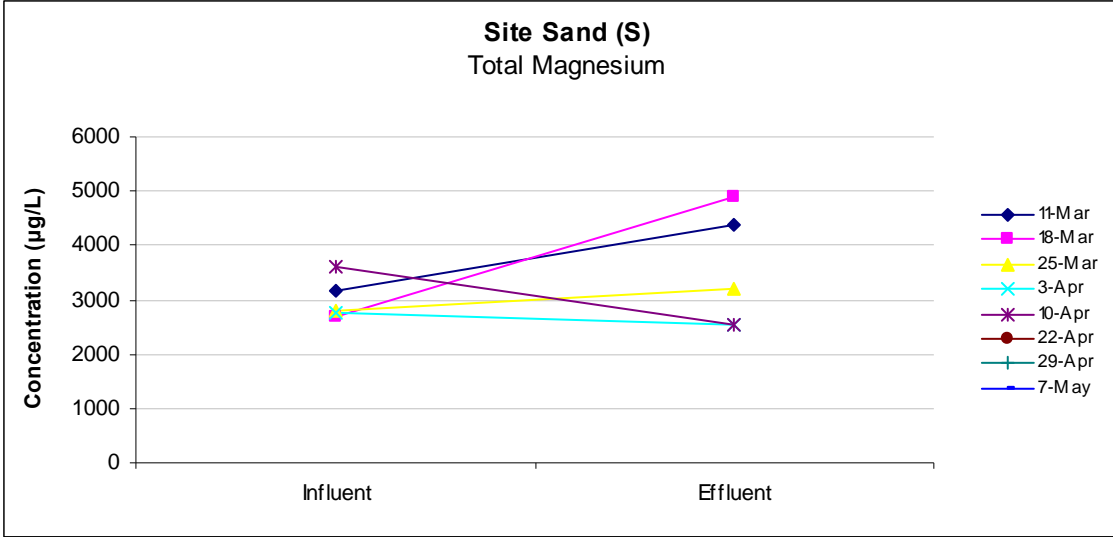
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	447293.476	447293.476	0.314	0.614
Residual	3.000	4271299.724	1423766.575		
Total	4.000	4718593.200			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	6160.517	4743.951	1.299	0.285	-8936.853	21257.887	-8936.853	21257.887
X Variable 1	-0.880	1.571	-0.561	0.614	-5.878	4.118	-5.878	4.118

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	3362.060	1031.940
2	3779.319	1134.681
3	3705.375	-508.375
4	3744.988	-1206.988
5	3000.258	-451.258





# Dissolved Mg

MWH Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.256
R Square	0.065
Adjusted R Square	-0.246
Standard Error	819.690
Observations	5.000

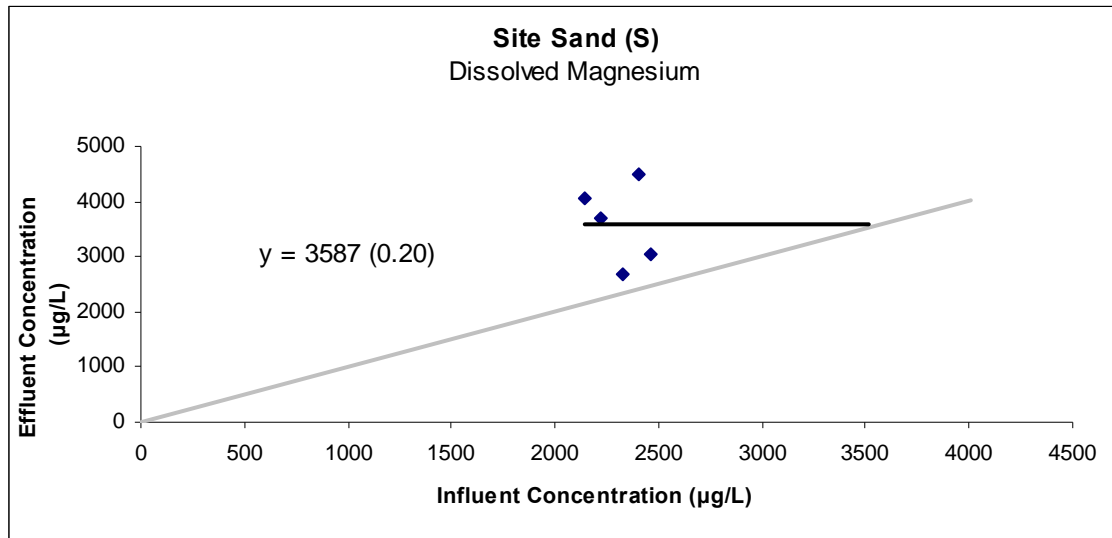
## ANOVA

	df	SS	MS	F	Significance F
Regression	1.000	140909.036	140909.036	0.210	0.678
Residual	3.000	2015676.964	671892.321		
Total	4.000	2156586.000			

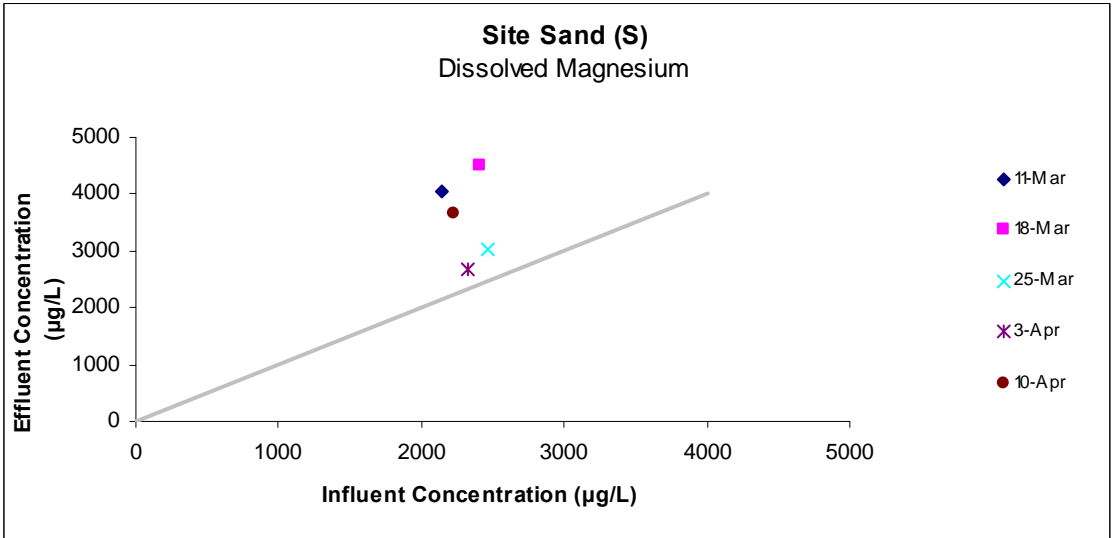
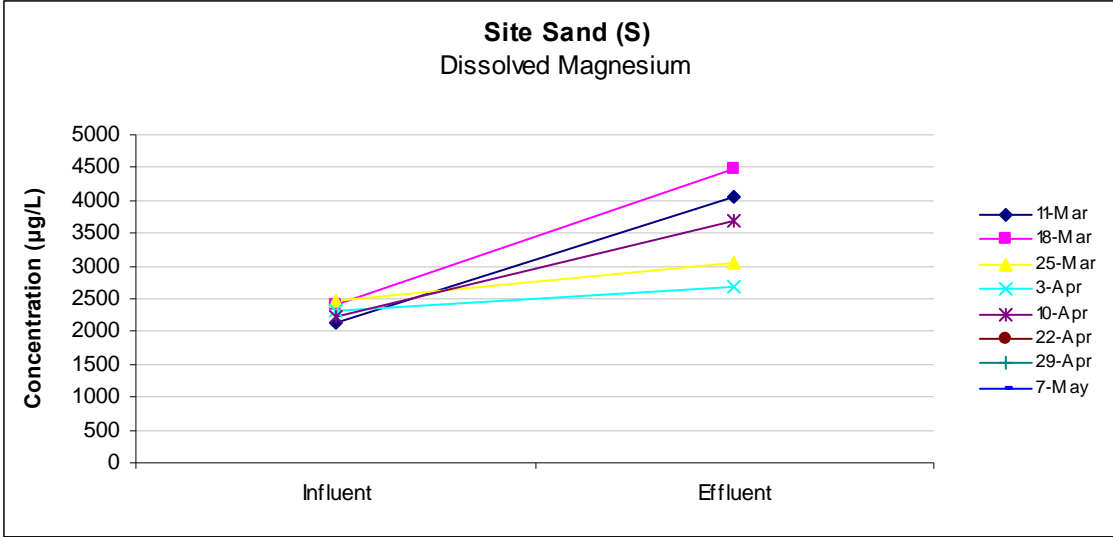
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	6914.989	7276.358	0.950	0.412	-16241.631	30071.608	-16241.631	30071.608
X Variable 1	-1.440	3.143	-0.458	0.678	-11.444	8.564	-11.444	8.564

## RESIDUAL OUTPUT

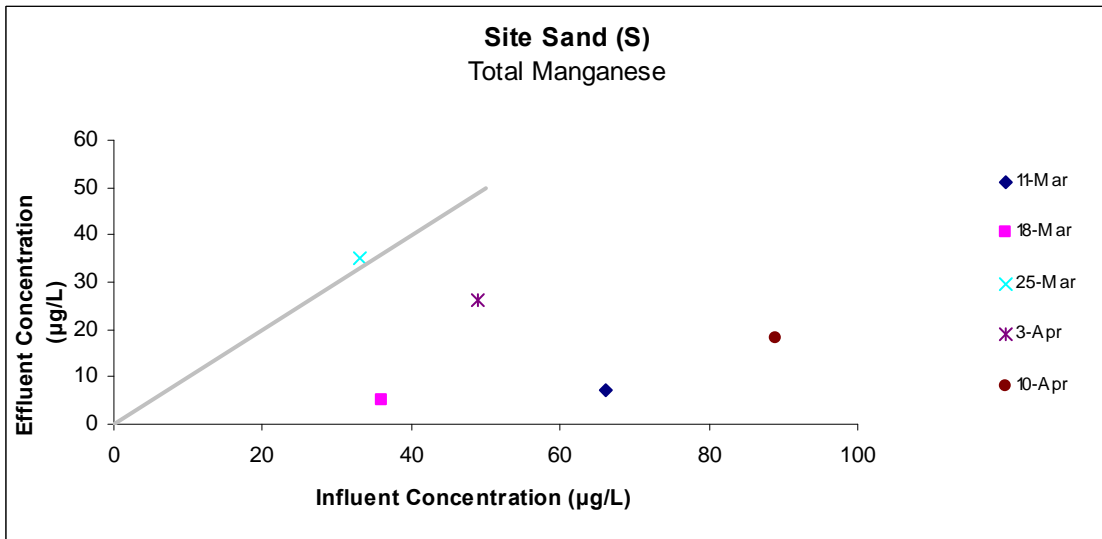
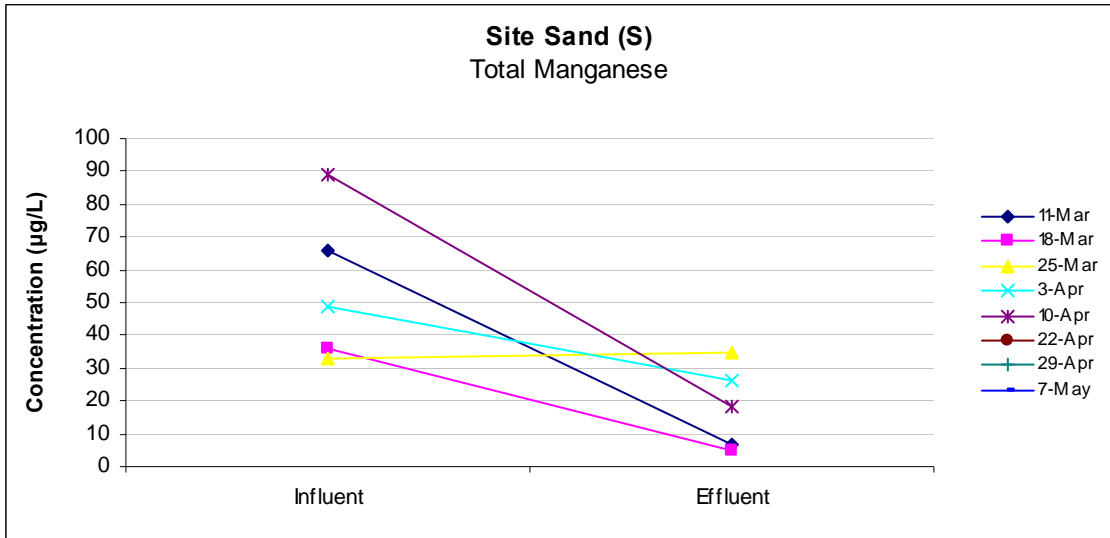
Observation	Predicted Y	Residuals
1	3828.558	216.441
2	3454.272	1035.728
3	3369.338	-325.338
4	3565.119	-889.119
5	3717.713	-38.713



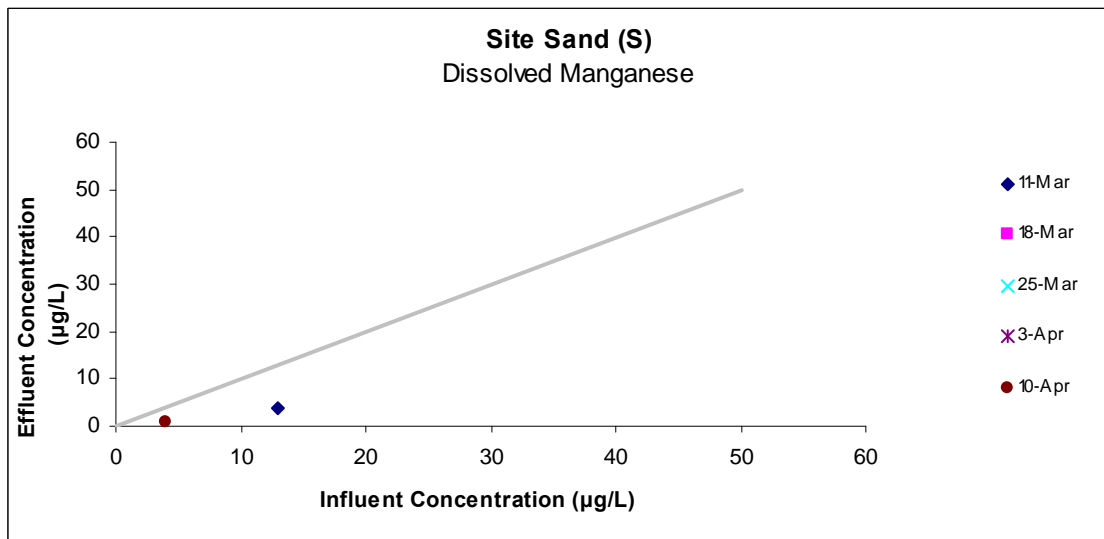
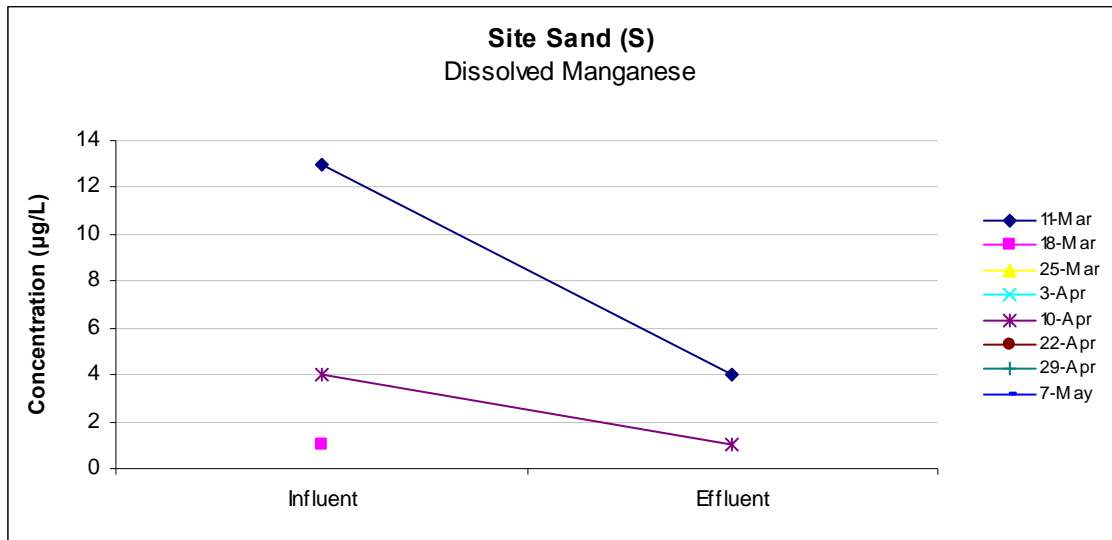




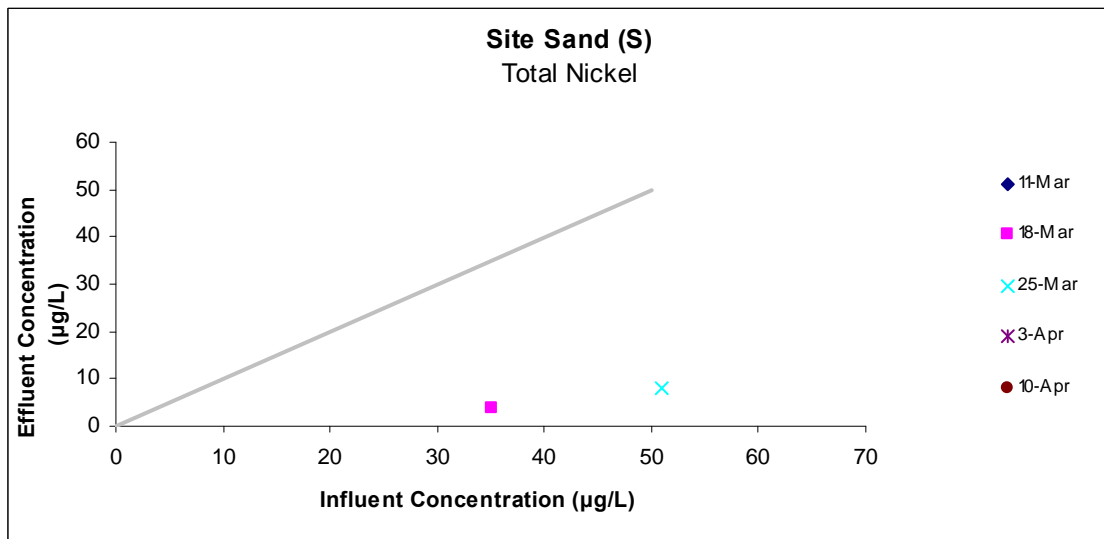
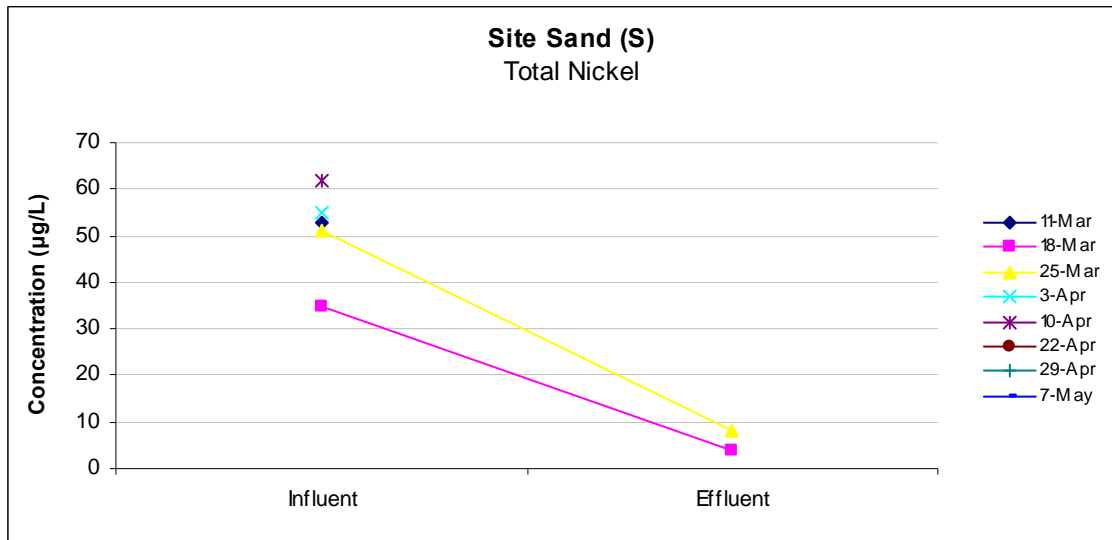
Total Mn



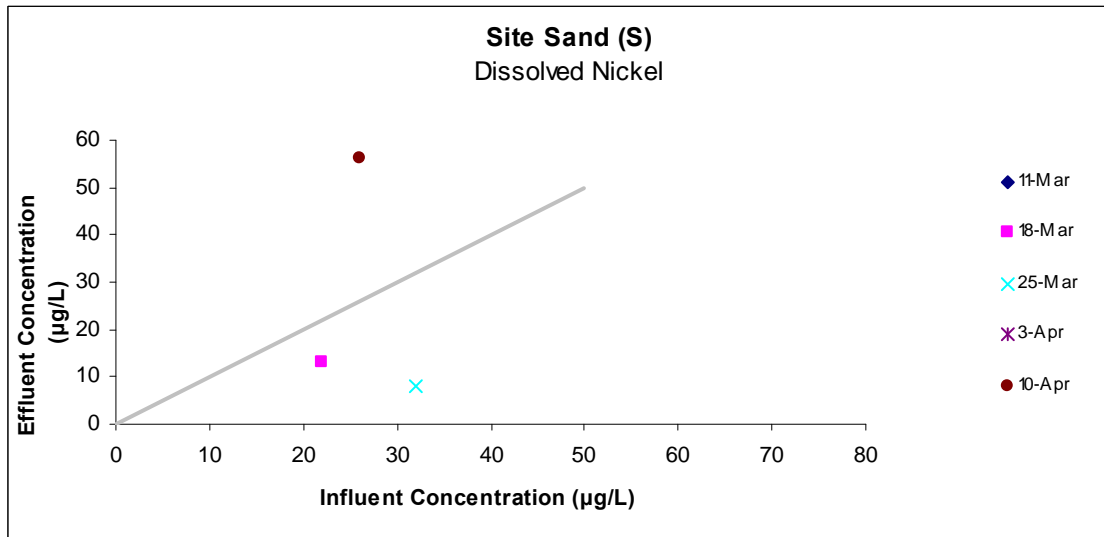
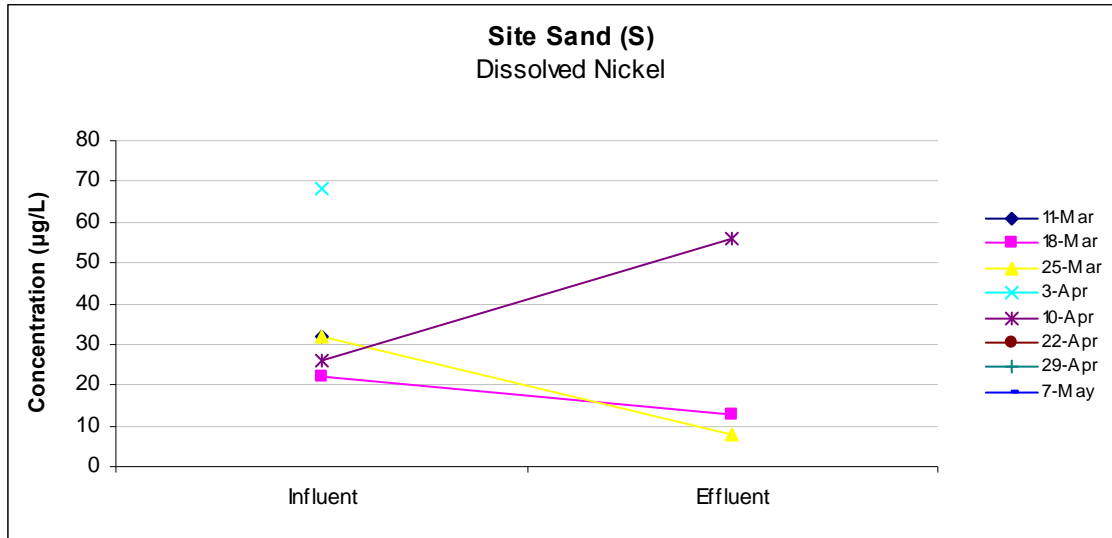
Dissolved Mn



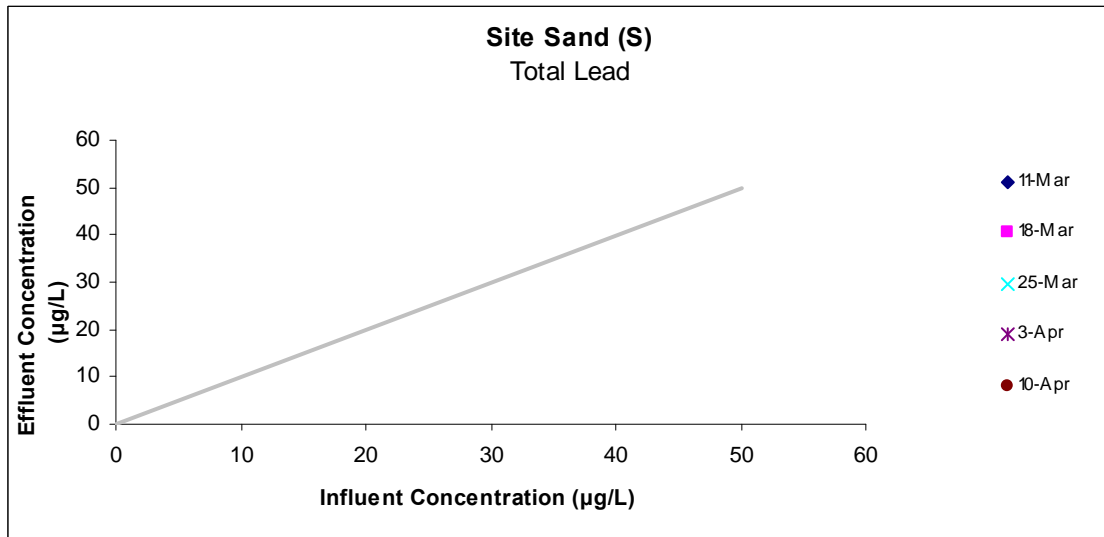
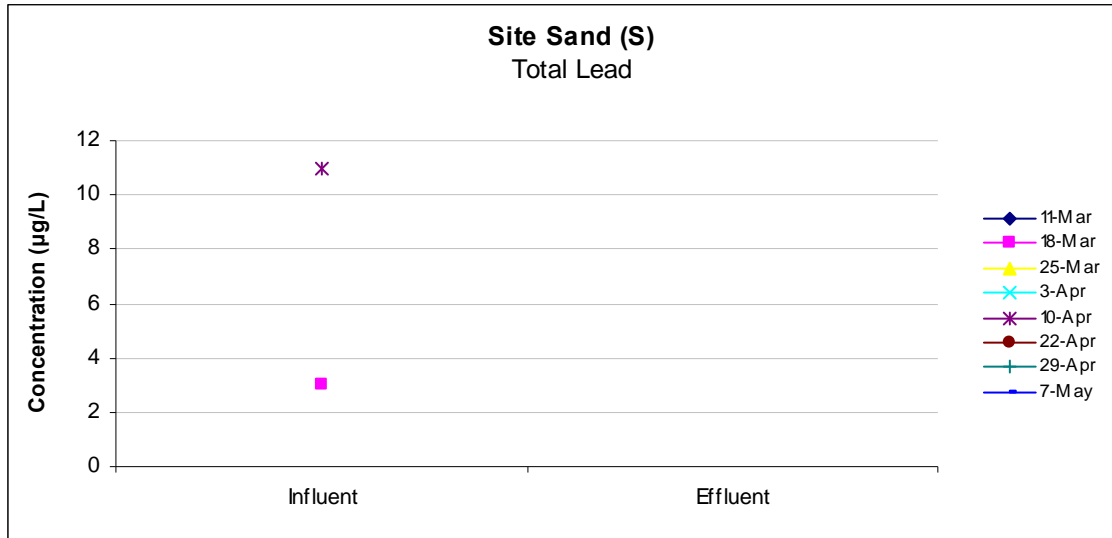
Total Ni



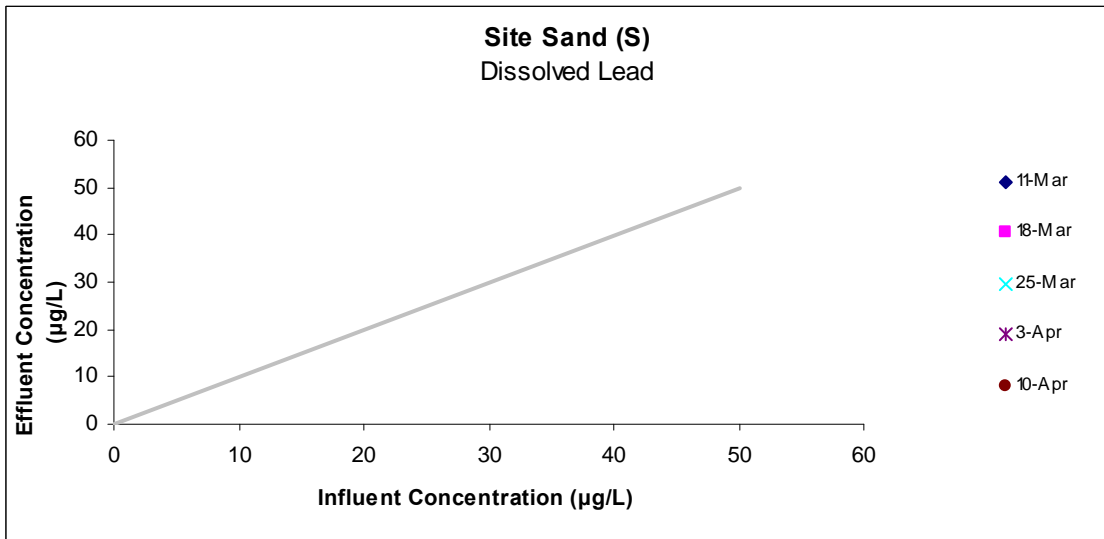
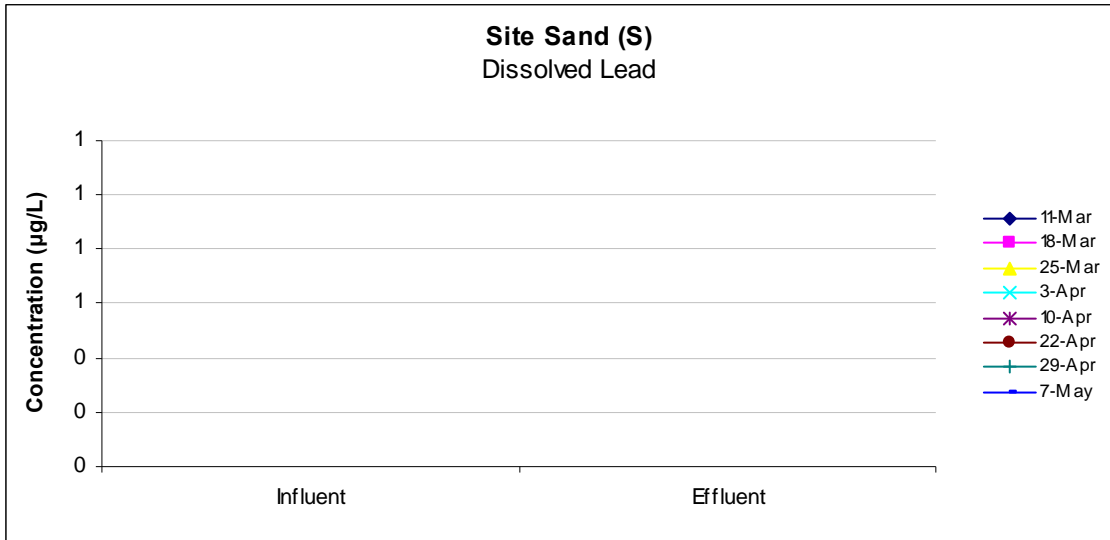
Dissolved Ni



Total Pb



# Dissolved Pb



# Total Zn

MWH Sand

## SUMMARY OUTPUT

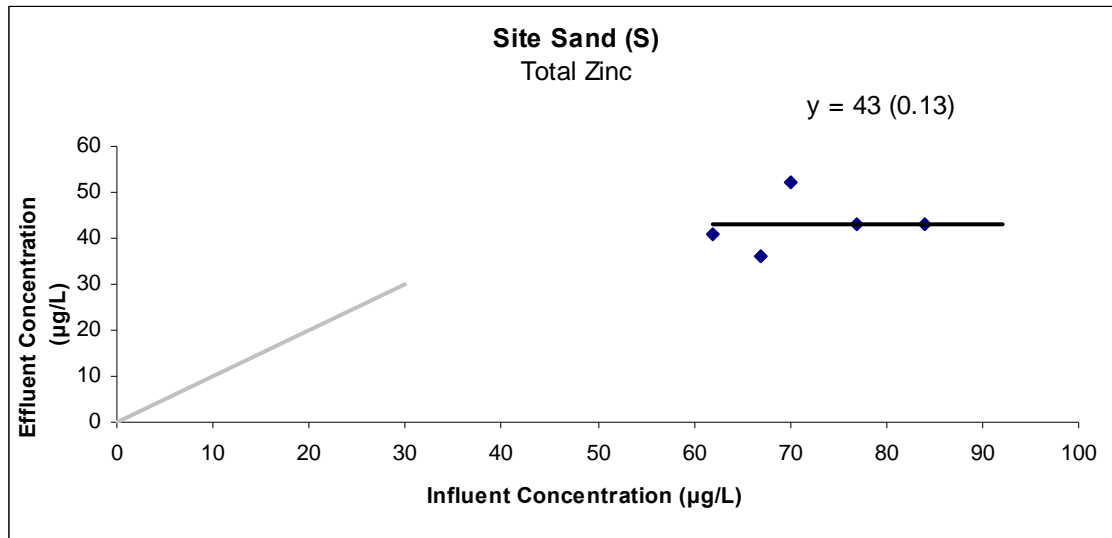
Regression Statistics	
Multiple R	0.185
R Square	0.034
Adjusted R Square	-0.288
Standard Error	6.568
Observations	5.000

ANOVA						
	df	SS	MS	F	Significance F	
Regression	1.000	4.594	4.594	0.107	0.766	
Residual	3.000	129.406	43.135			
Total	4.000	134.000				

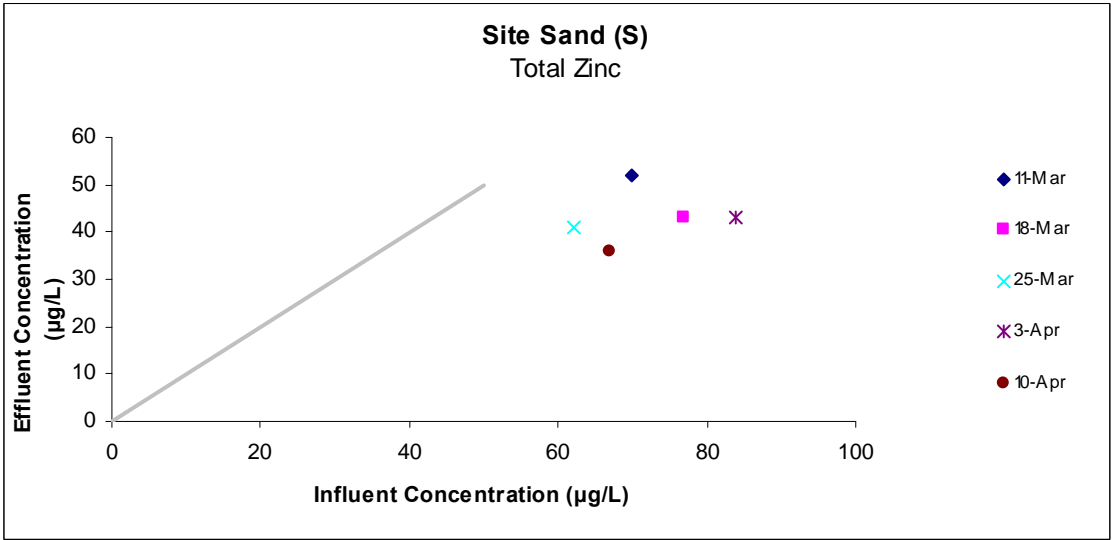
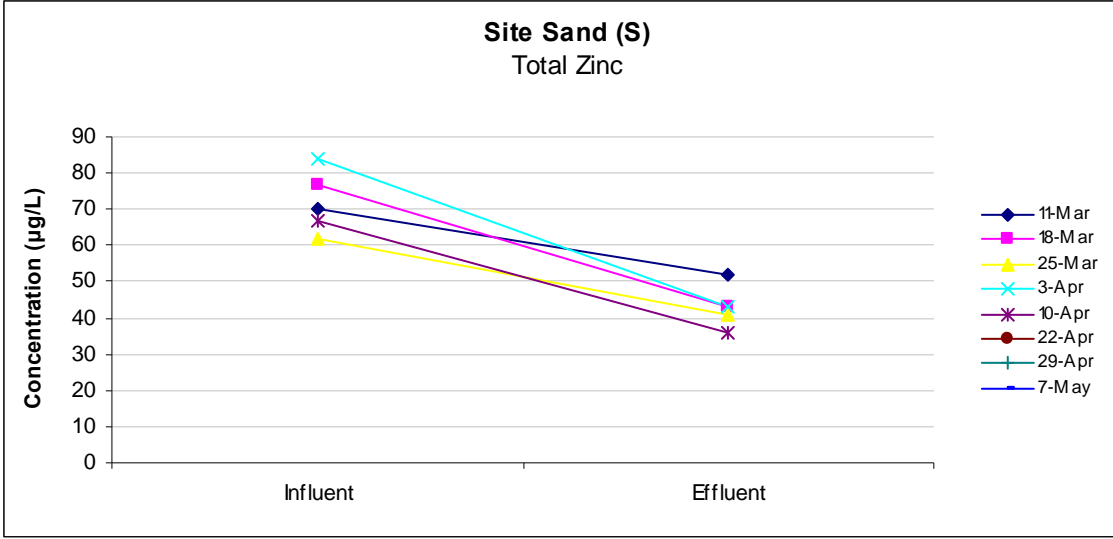
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	34.060	27.550	1.236	0.304	-53.616	121.737	-53.616	121.737
X Variable 1	0.124	0.380	0.326	0.766	-1.087	1.335	-1.087	1.335

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	42.752	9.248
2	43.621	-0.621
3	41.758	-0.758
4	44.490	-1.490
5	42.379	-6.379







# Dissolved Zn

MWH Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.073
R Square	0.005
Adjusted R Square	-0.326
Standard Error	16.233
Observations	5.000

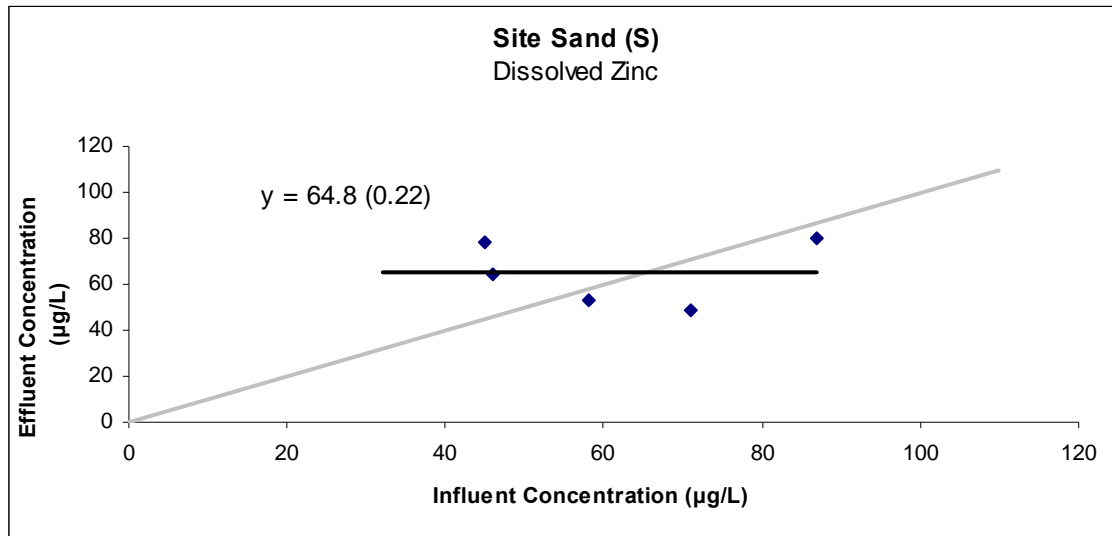
## ANOVA

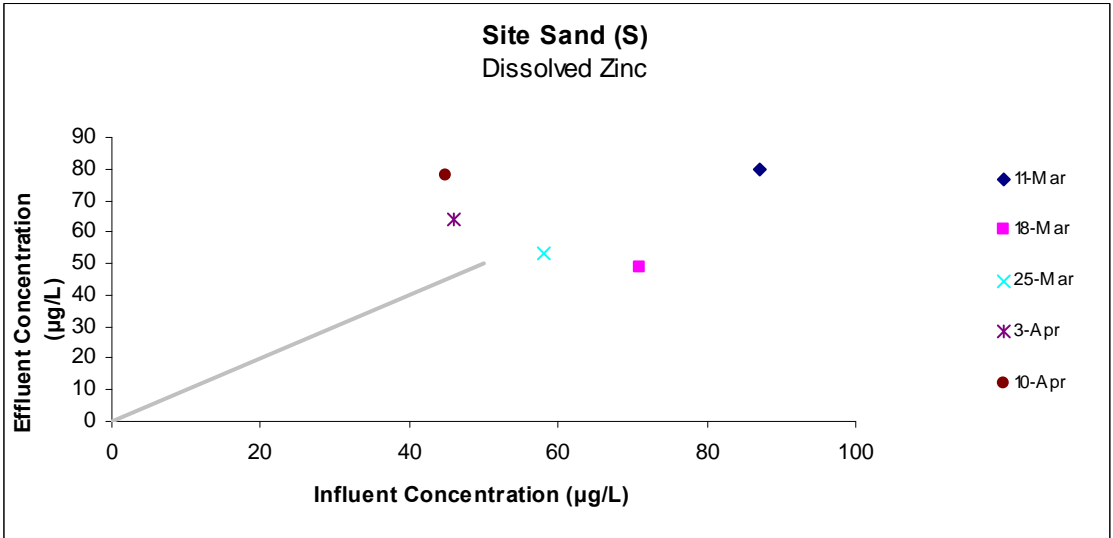
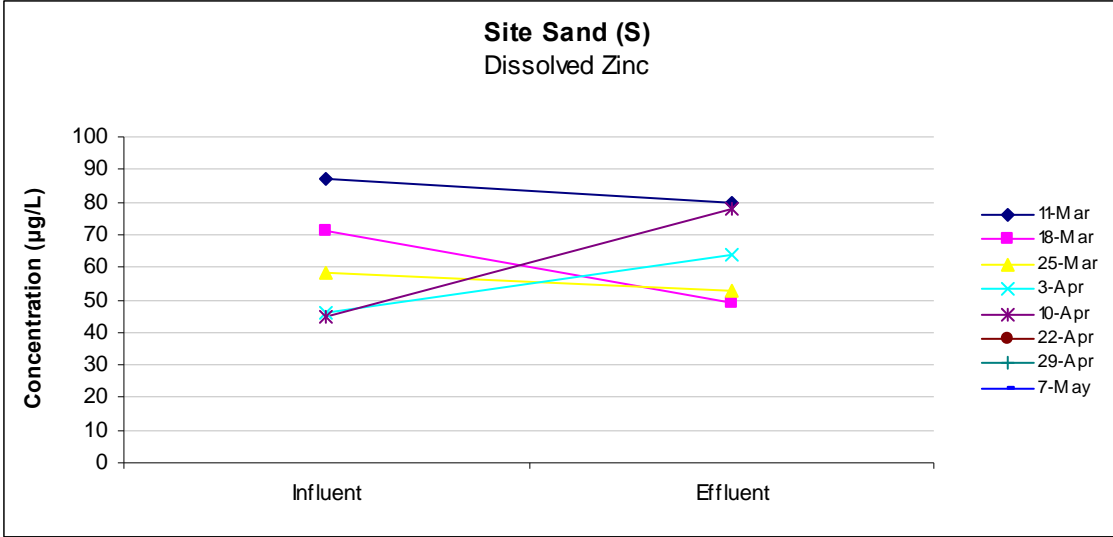
	df	SS	MS	F	Significance F
Regression	1.000	4.258	4.258	0.016	0.907
Residual	3.000	790.542	263.514		
Total	4.000	794.800			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	61.238	28.947	2.116	0.125	-30.883	153.359	-30.883	153.359
X Variable 1	0.058	0.456	0.127	0.907	-1.394	1.510	-1.394	1.510

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	66.285	13.715
2	65.357	-16.357
3	64.603	-11.603
4	63.907	0.093
5	63.849	14.151





# Total K

MWH Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.653
R Square	0.426
Adjusted R Square	0.235
Standard Error	293.801
Observations	5.000

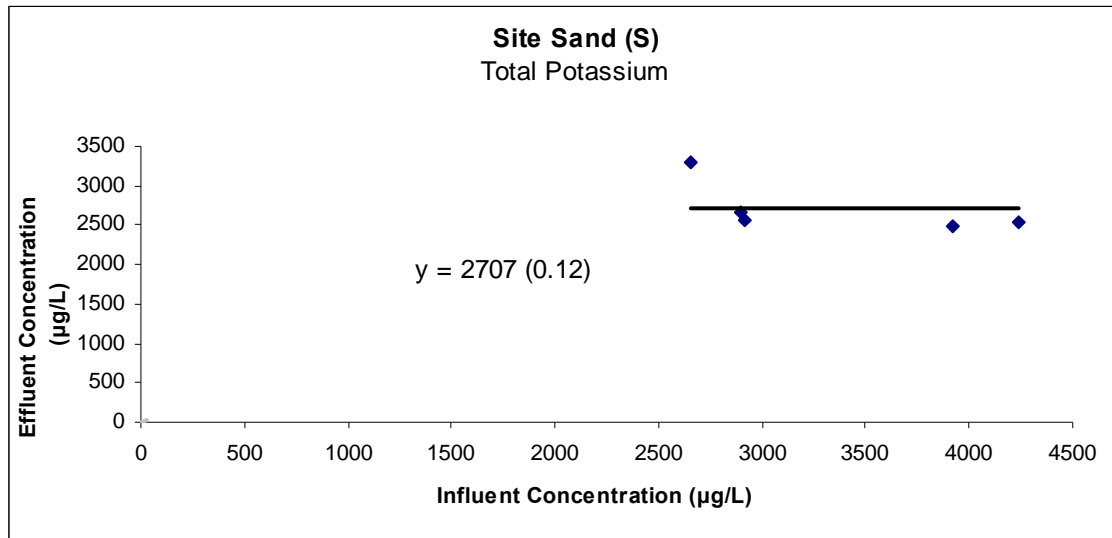
## ANOVA

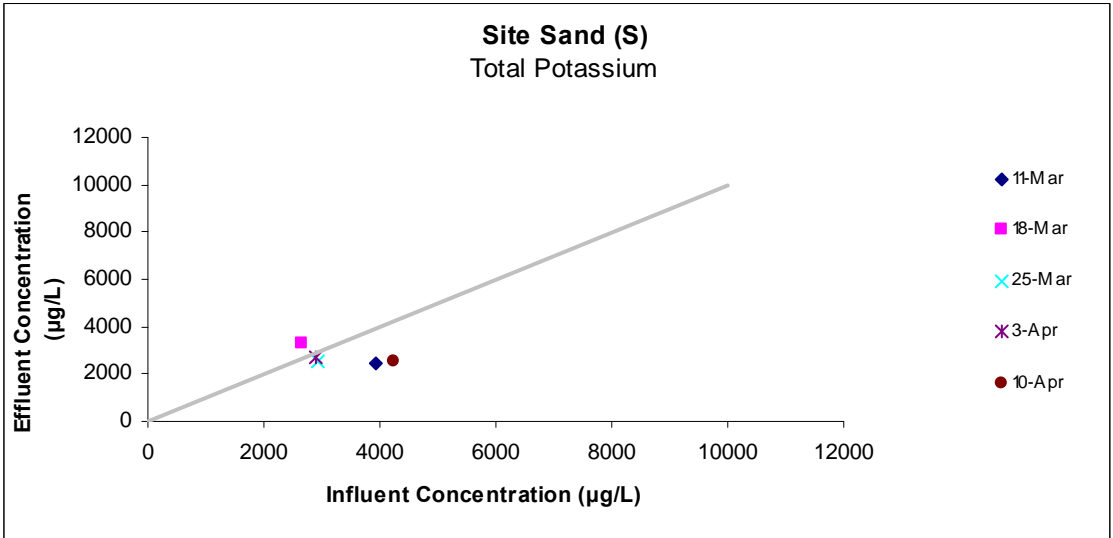
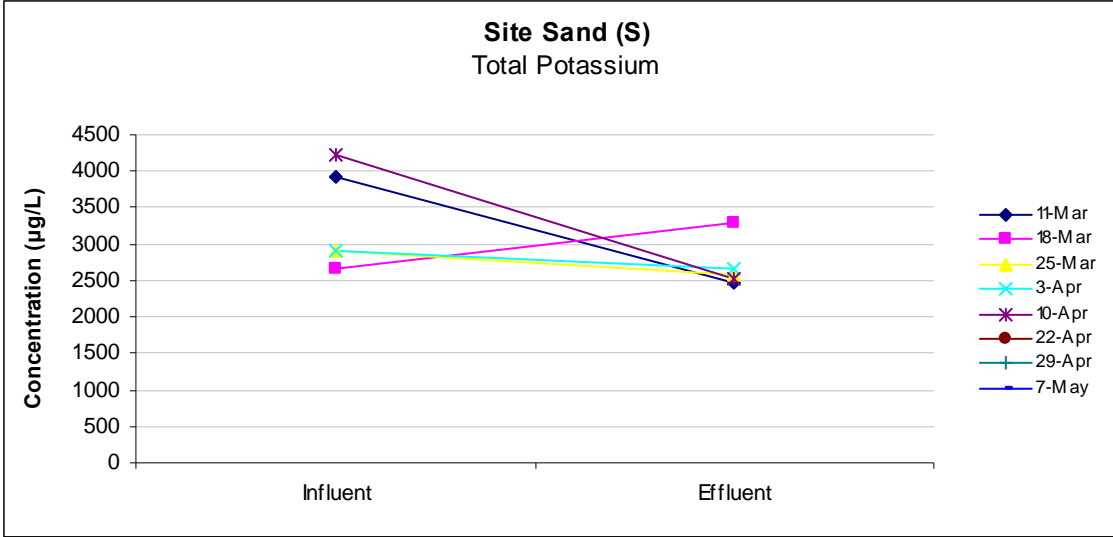
	df	SS	MS	F	Significance F
Regression	1.000	192303.932	192303.932	2.228	0.232
Residual	3.000	258957.268	86319.089		
Total	4.000	451261.200			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	3741.391	704.968	5.307	0.013	1497.868	5984.914	1497.868	5984.914
X Variable 1	-0.311	0.208	-1.493	0.232	-0.974	0.352	-0.974	0.352

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	2522.990	-46.990
2	2917.206	378.794
3	2834.819	-264.819
4	2839.482	-176.482
5	2423.503	109.497





# Dissolved K

MWH Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.712
R Square	0.506
Adjusted R Square	0.342
Standard Error	585.920
Observations	5.000

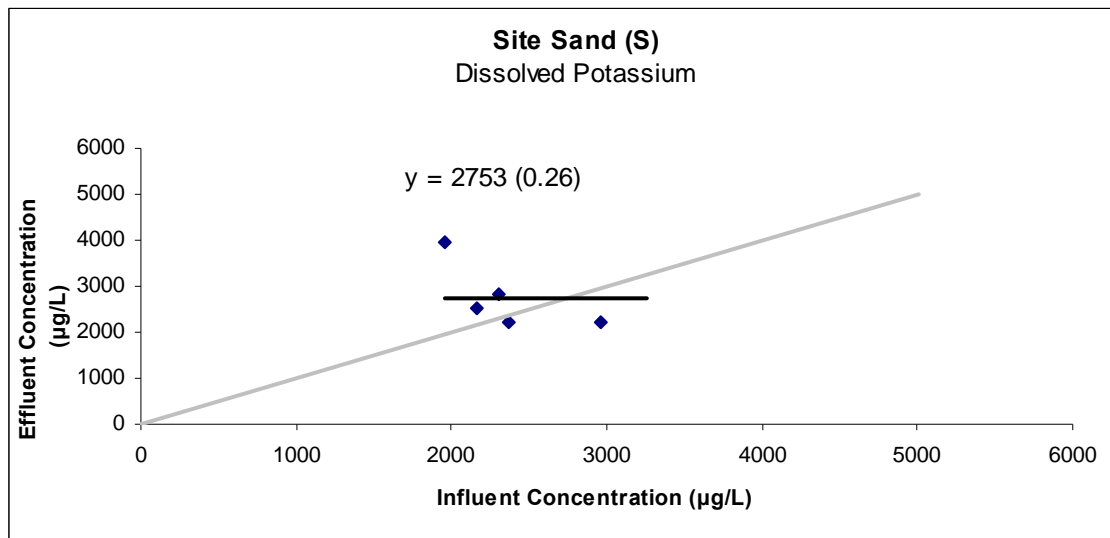
## ANOVA

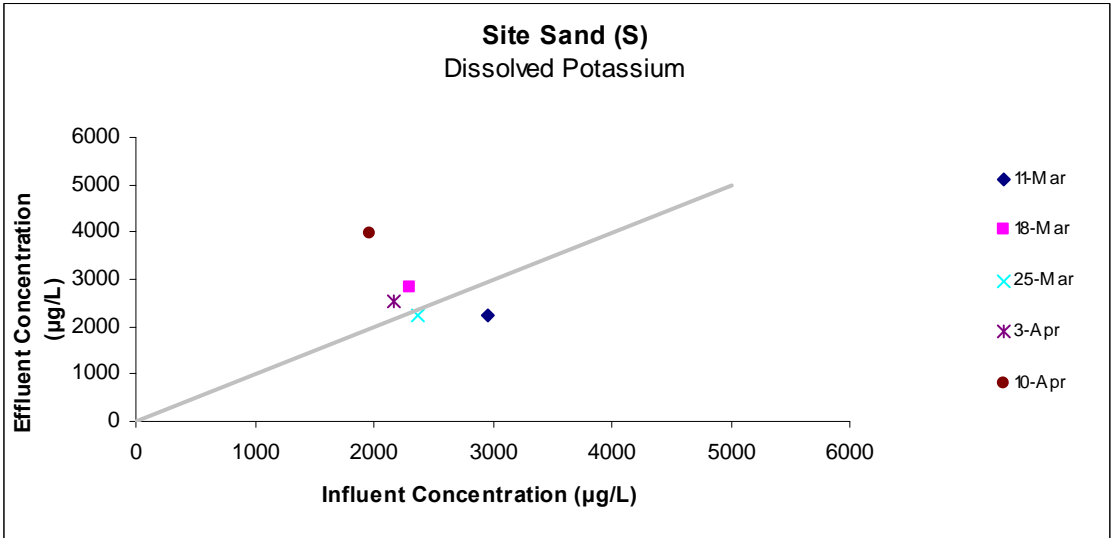
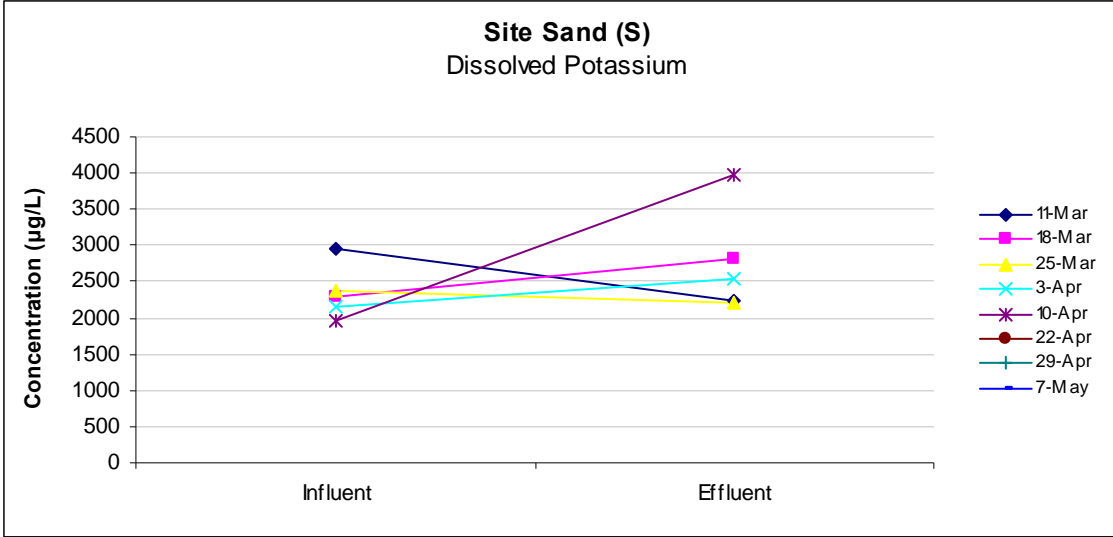
	df	SS	MS	F	Significance F
Regression	1.000	1055963.175	1055963.175	3.076	0.178
Residual	3.000	1029906.025	343302.008		
Total	4.000	2085869.200			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	5988.725	1863.242	3.214	0.049	59.057	11918.393	59.057	11918.393
X Variable 1	-1.377	0.785	-1.754	0.178	-3.875	1.121	-3.875	1.121

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	1919.099	303.901
2	2818.730	-1.730
3	2728.619	-506.619
4	3012.226	-472.226
5	3290.326	676.674





# Total Na

MWH Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.129
R Square	0.017
Adjusted R Square	-0.311
Standard Error	552.523
Observations	5.000

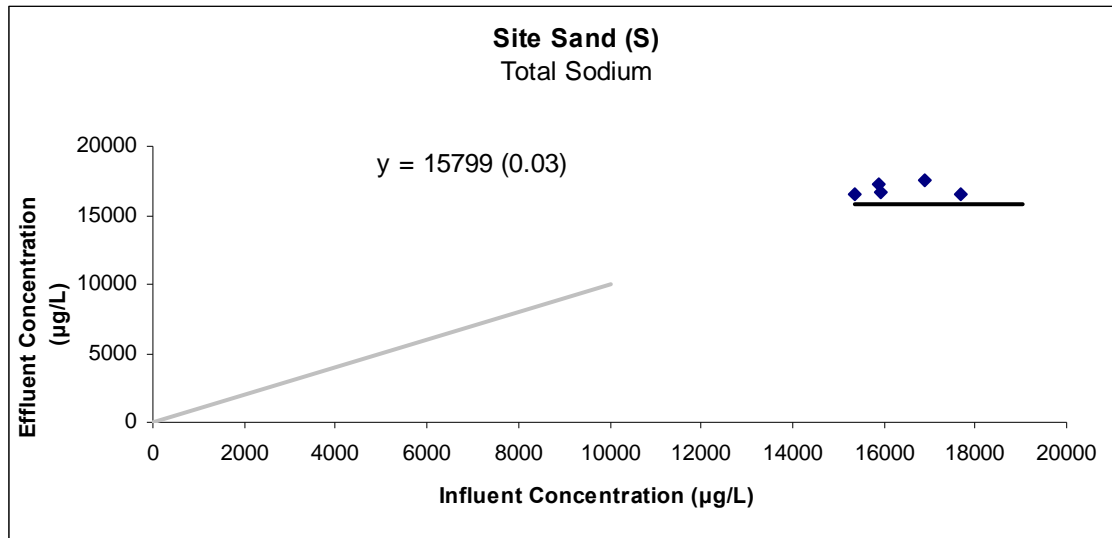
## ANOVA

	df	SS	MS	F	Significance F
Regression	1.000	15542.022	15542.022	0.051	0.836
Residual	3.000	915844.778	305281.593		
Total	4.000	931386.800			

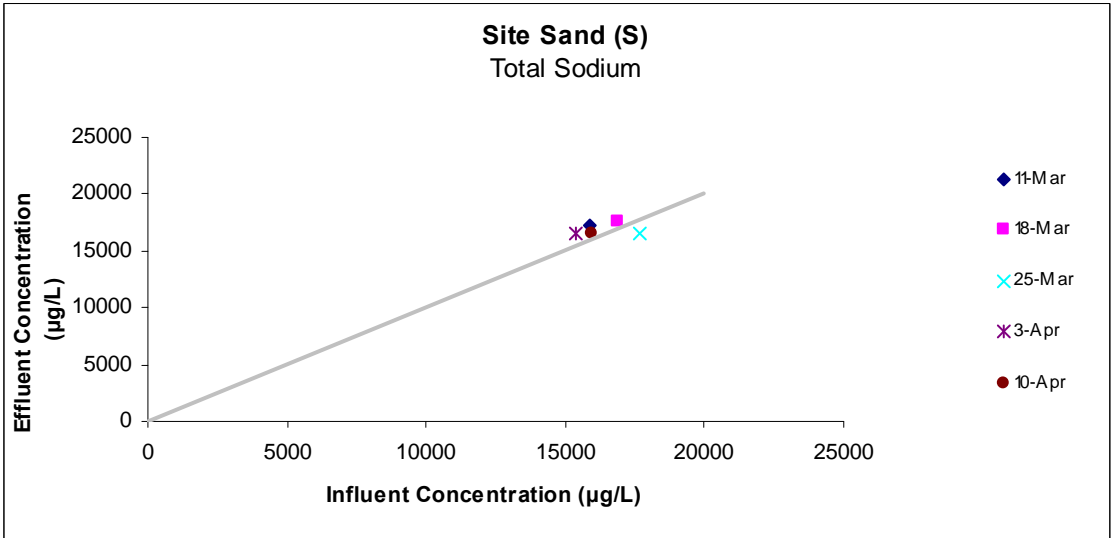
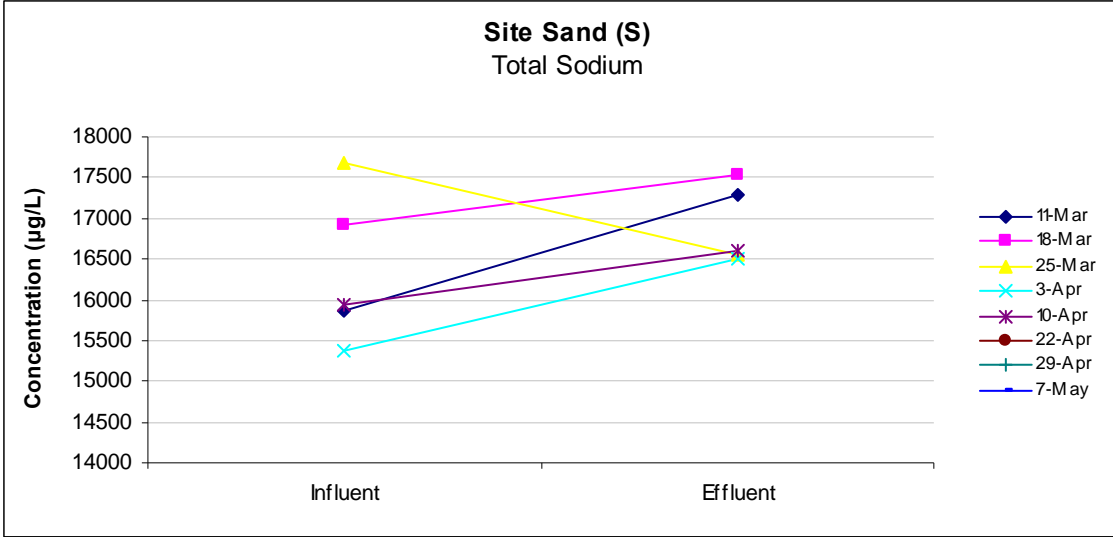
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	15798.848	4867.932	3.245	0.048	306.915	31290.780	306.915	31290.780
X Variable 1	0.067	0.297	0.226	0.836	-0.879	1.013	-0.879	1.013

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	16863.753	435.247
2	16932.971	598.029
3	16984.952	-427.952
4	16829.412	-337.412
5	16867.911	-267.911







# Dissolved Na

MWH Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.282
R Square	0.079
Adjusted R Square	-0.228
Standard Error	6799.700
Observations	5.000

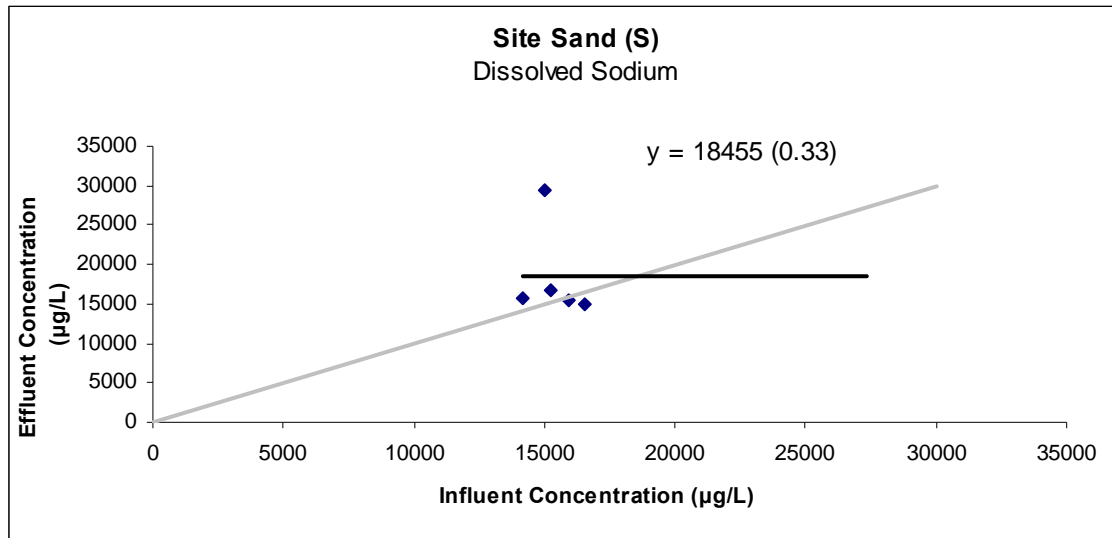
## ANOVA

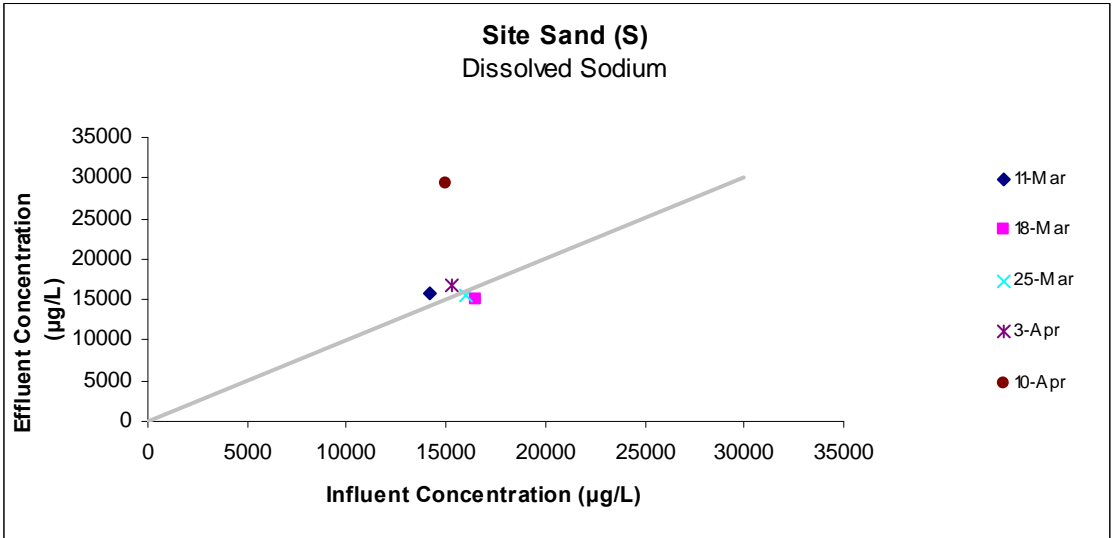
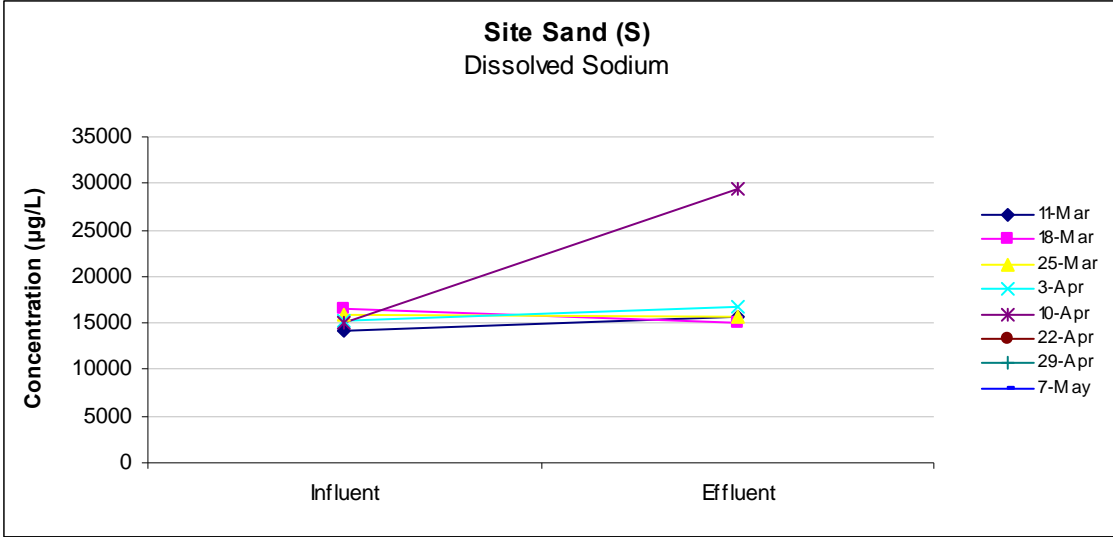
	df	SS	MS	F	Significance F
Regression	1.000	11953666.854	11953666.854	0.259	0.646
Residual	3.000	138707771.146	46235923.715		
Total	4.000	150661438.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	47862.768	57916.288	0.826	0.489	-136452.709	232178.245	-136452.709	232178.245
X Variable 1	-1.911	3.759	-0.508	0.646	-13.875	10.052	-13.875	10.052

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	20776.213	-5113.213
2	16265.292	-1335.292
3	17366.262	-1783.262
4	18681.311	-1955.311
5	19165.922	10187.078





# Total Cr

MWH Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.540
R Square	0.292
Adjusted R Square	0.056
Standard Error	7.316
Observations	5.000

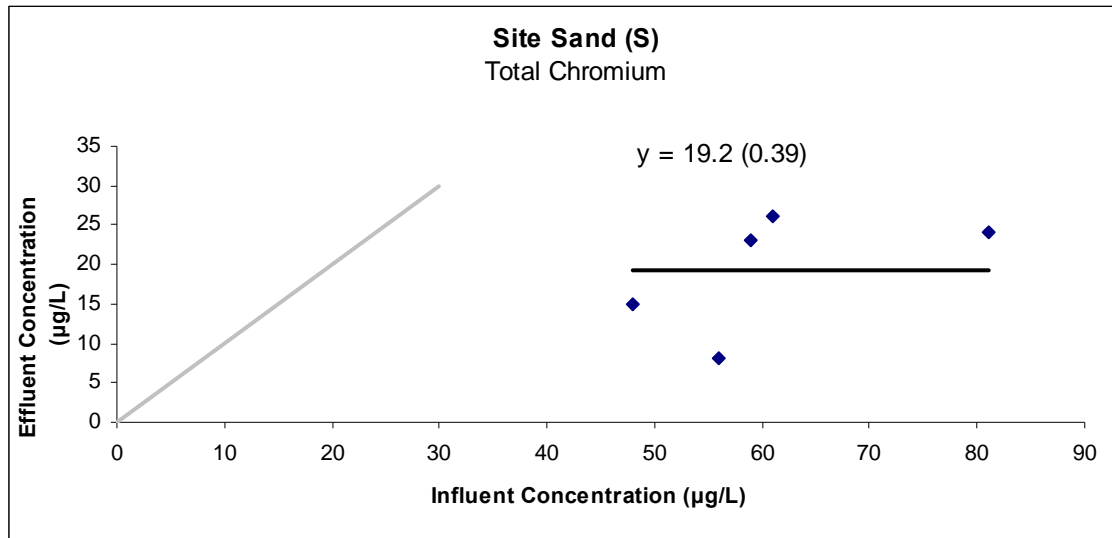
## ANOVA

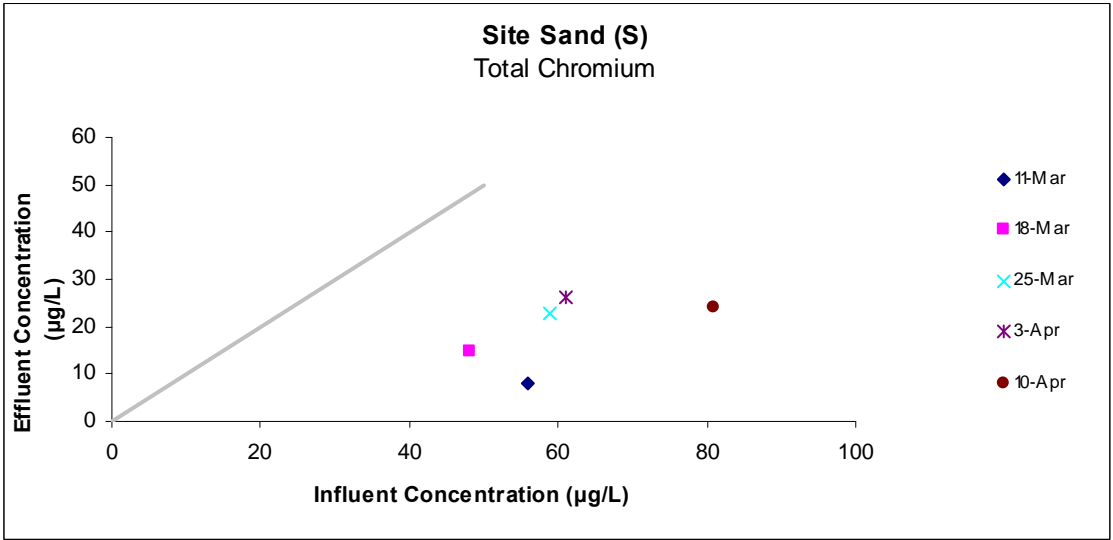
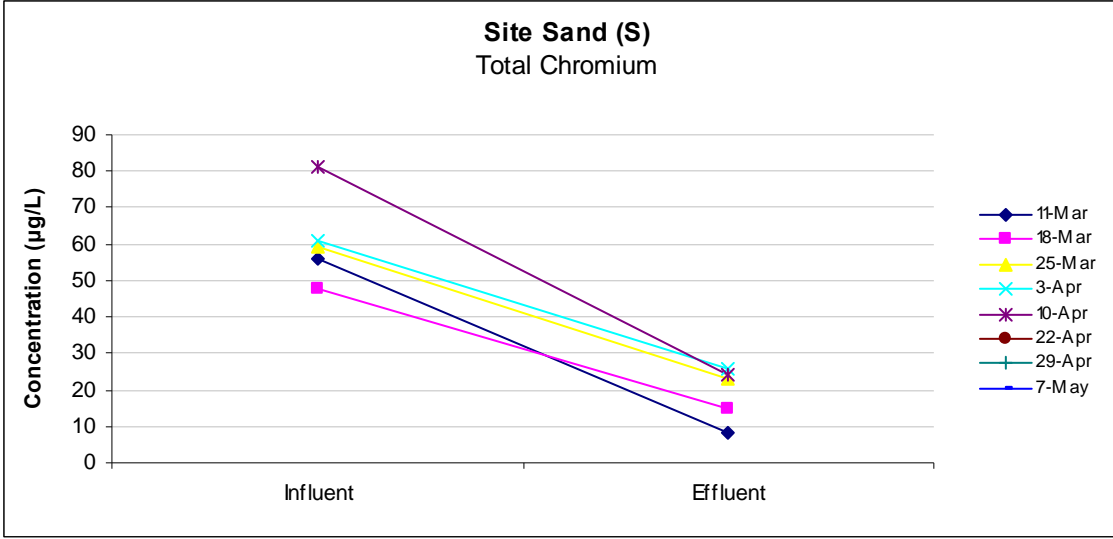
	df	SS	MS	F	Significance F
Regression	1.000	66.222	66.222	1.237	0.347
Residual	3.000	160.578	53.526		
Total	4.000	226.800			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-1.099	18.541	-0.059	0.956	-60.105	57.906	-60.105	57.906
X Variable 1	0.333	0.299	1.112	0.347	-0.619	1.285	-0.619	1.285

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	17.536	-9.536
2	14.874	0.126
3	18.534	4.466
4	19.200	6.800
5	25.856	-1.856





# Dissolved Cr

MWH Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.320
R Square	0.102
Adjusted R Square	-0.197
Standard Error	6.700
Observations	5.000

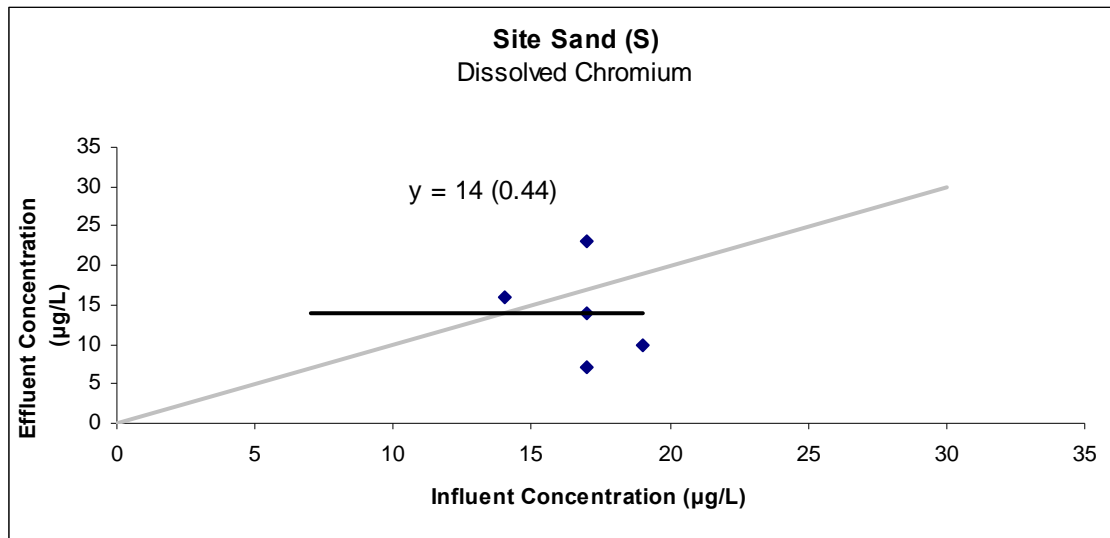
## ANOVA

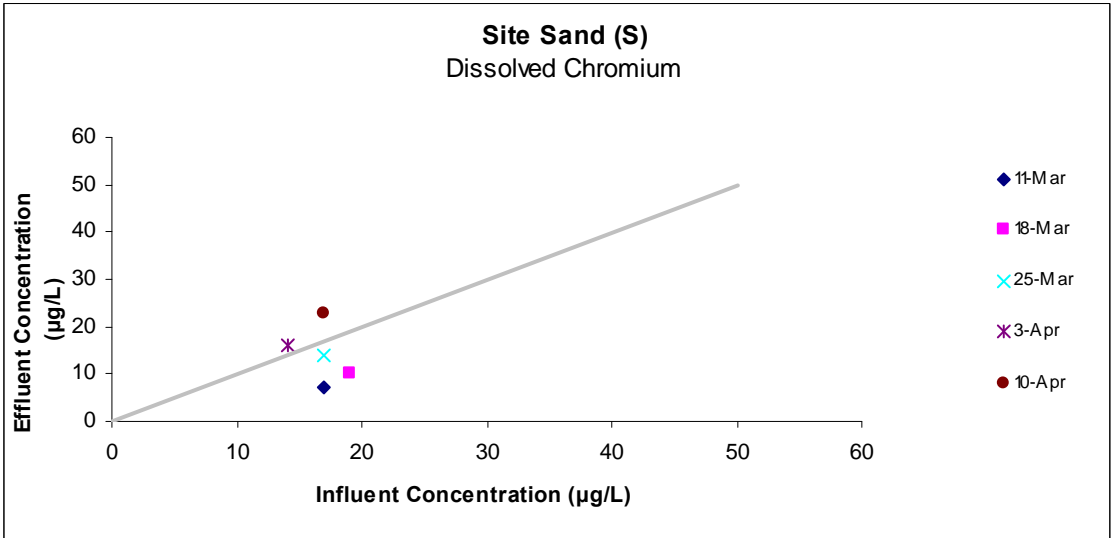
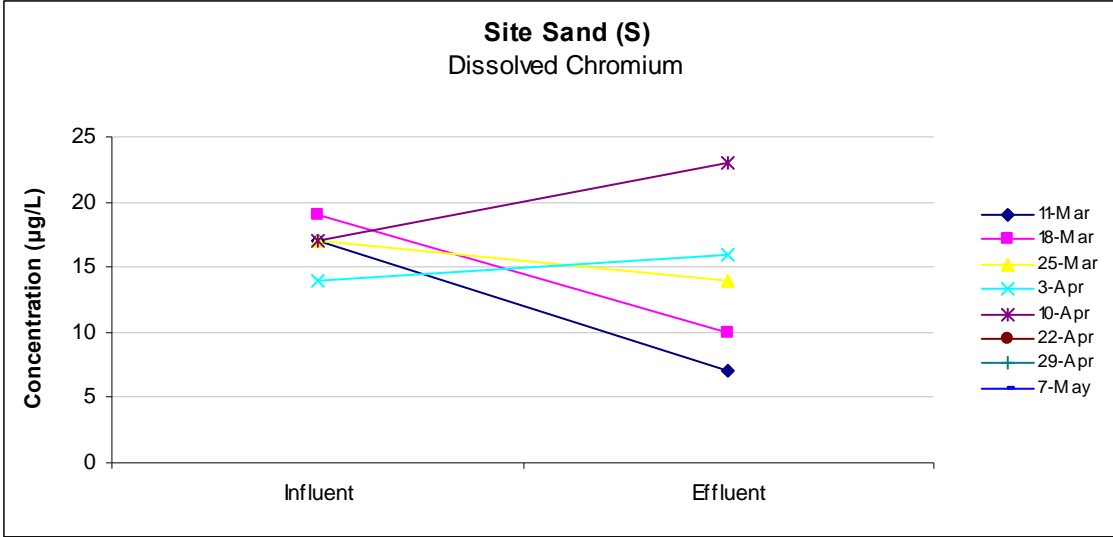
	df	SS	MS	F	Significance F
Regression	1.000	15.313	15.313	0.341	0.600
Residual	3.000	134.688	44.896		
Total	4.000	150.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	32.375	31.606	1.024	0.381	-68.209	132.959	-68.209	132.959
X Variable 1	-1.094	1.873	-0.584	0.600	-7.054	4.866	-7.054	4.866

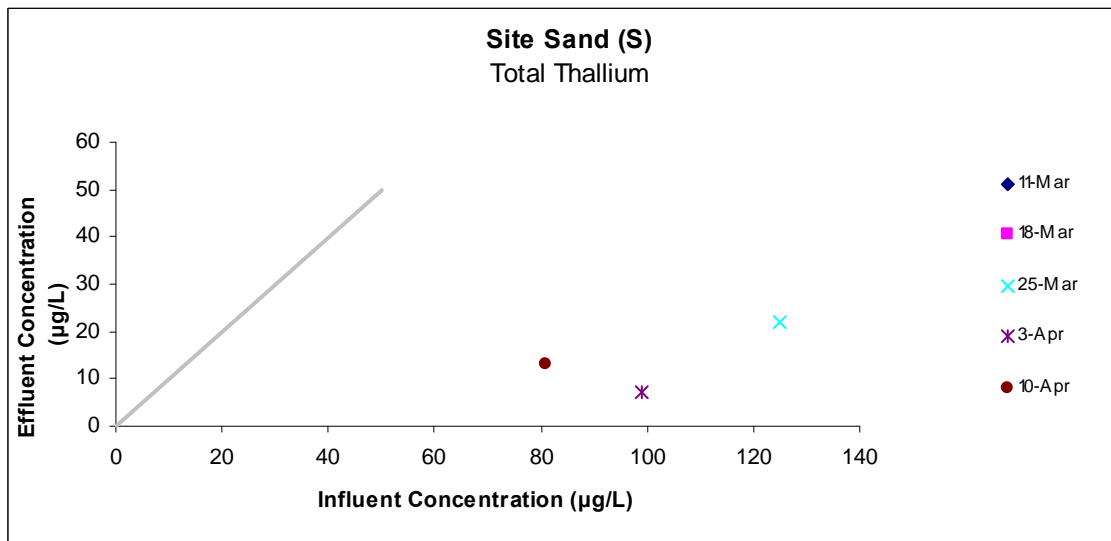
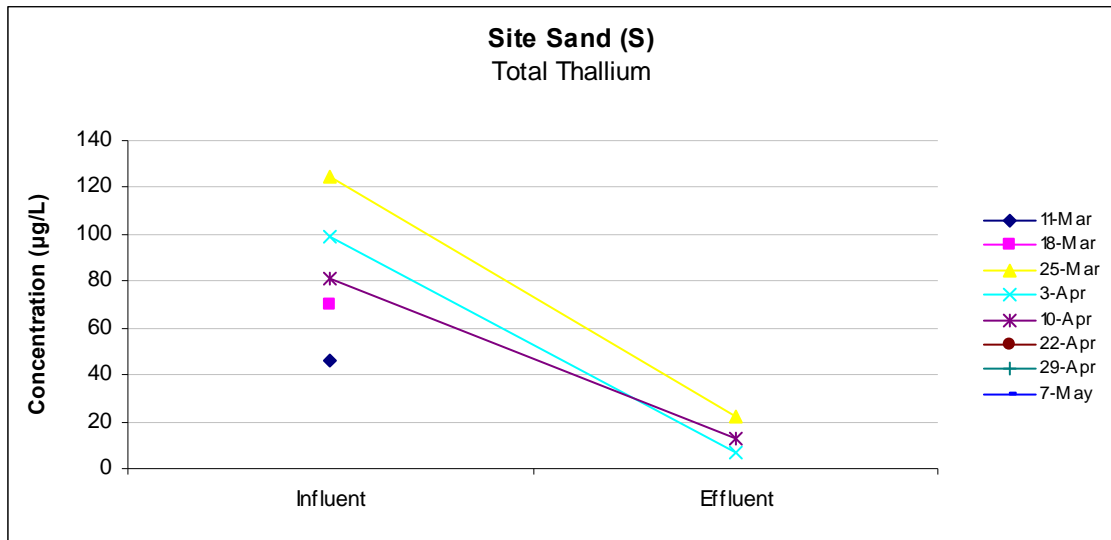
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	13.781	-6.781
2	11.594	-1.594
3	13.781	0.219
4	17.063	-1.063



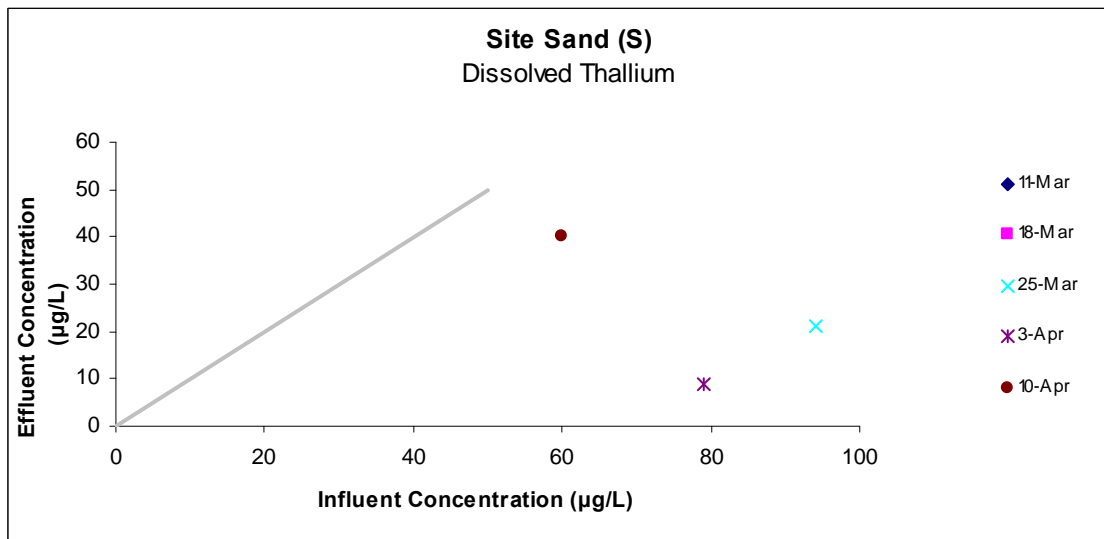
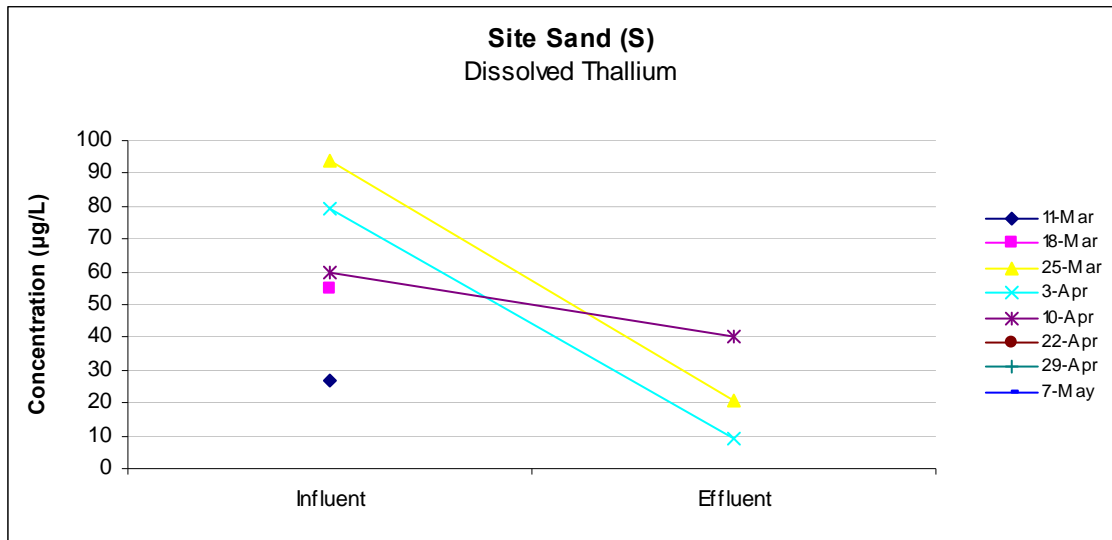


Total Tl





Dissolved Tl



# Total Sb

MWH Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.595
R Square	0.354
Adjusted R Square	0.031
Standard Error	22.298
Observations	4.000

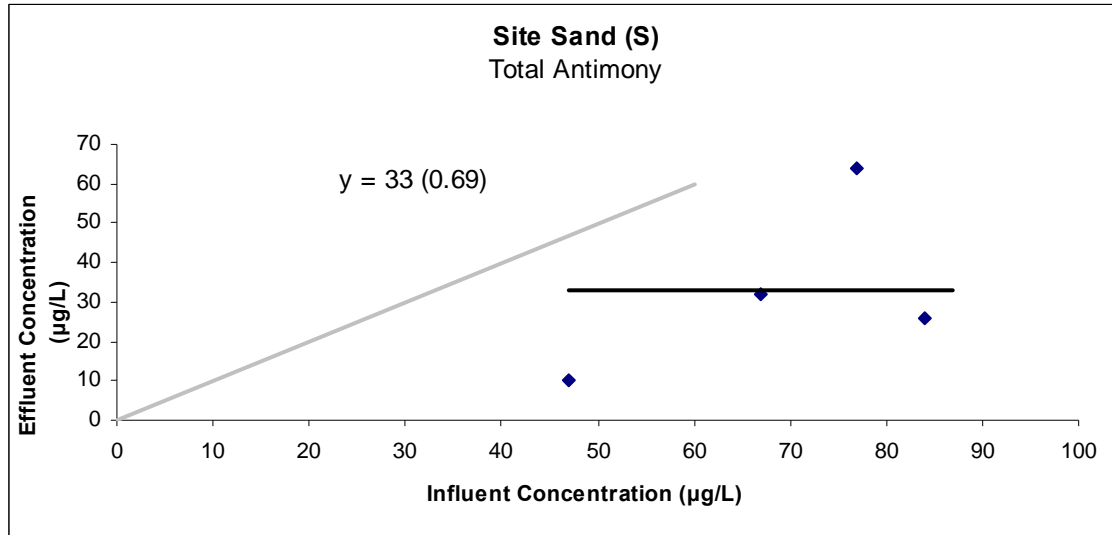
## ANOVA

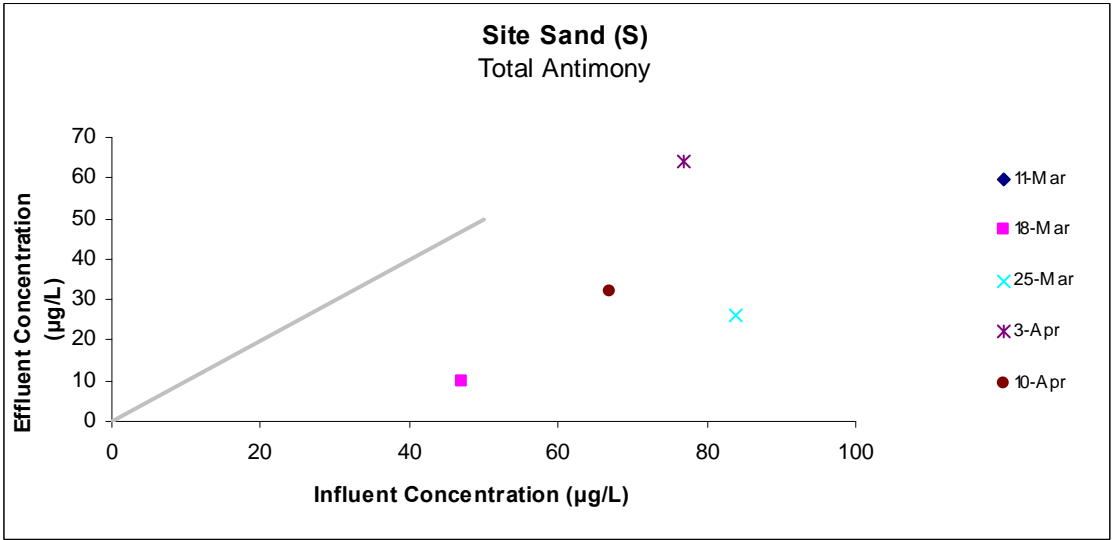
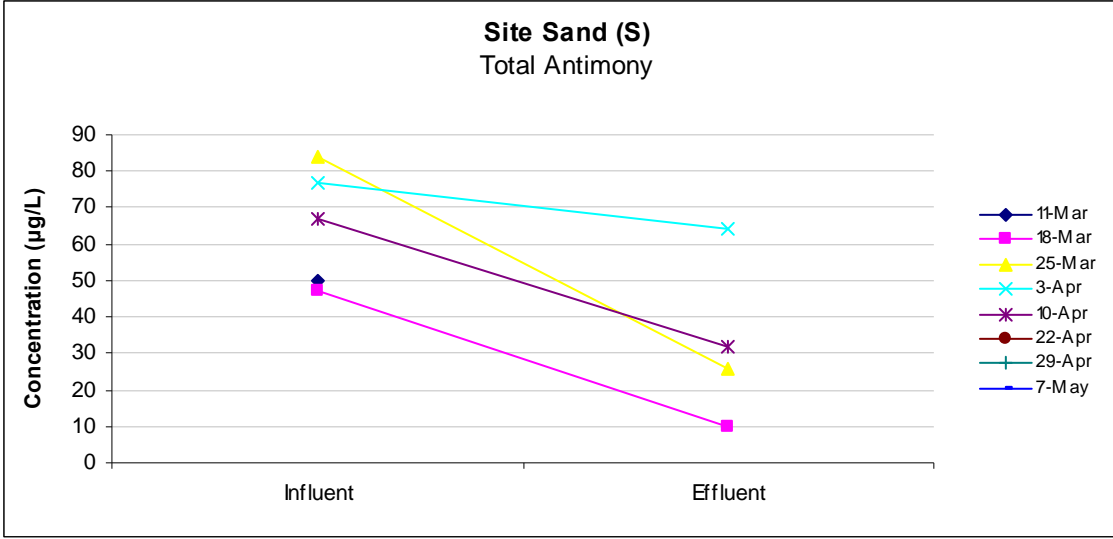
	df	SS	MS	F	Significance F
Regression	1.000	545.608	545.608	1.097	0.405
Residual	2.000	994.392	497.196		
Total	3.000	1540.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-24.620	56.123	-0.439	0.704	-266.097	216.857	-266.097	216.857
X Variable 1	0.838	0.800	1.048	0.405	-2.604	4.280	-2.604	4.280

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	14.771	-4.771
2	45.781	-19.781
3	39.814	24.086
4	31.533	0.467





# Dissolved Sb

MWH Sand

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.360
R Square	0.129
Adjusted R Square	-0.306
Standard Error	27.402
Observations	4.000

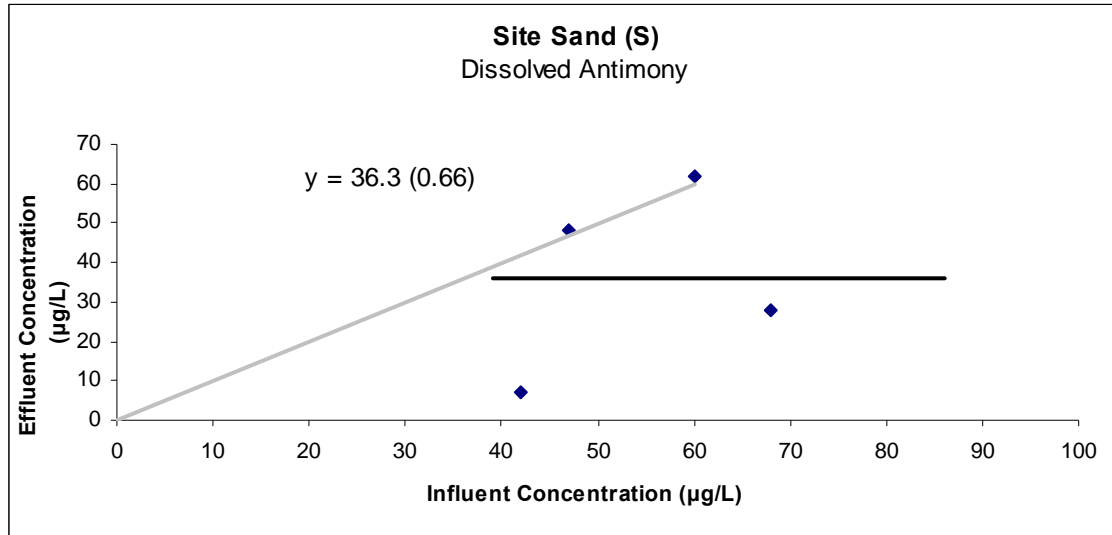
## ANOVA

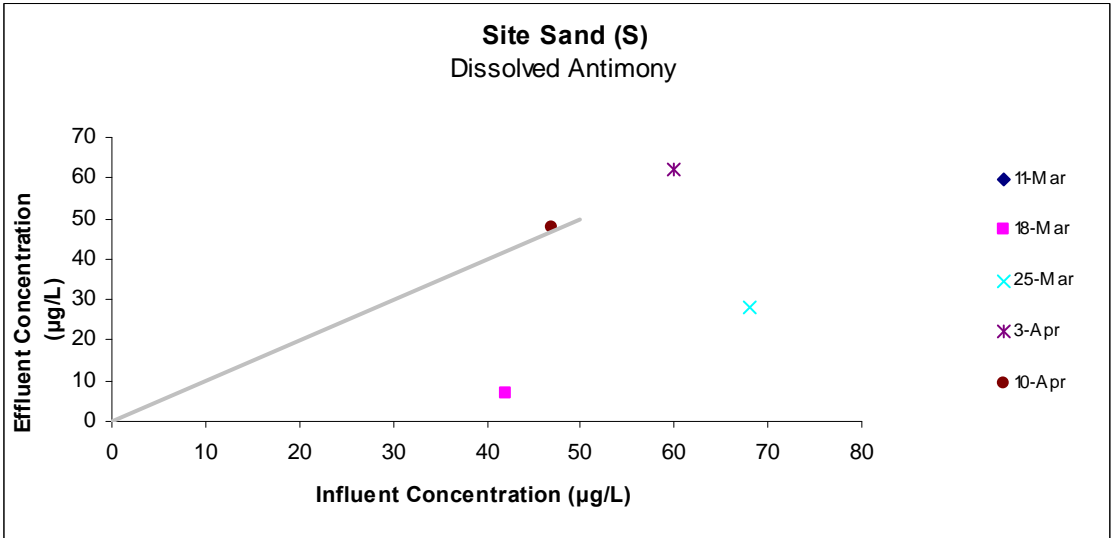
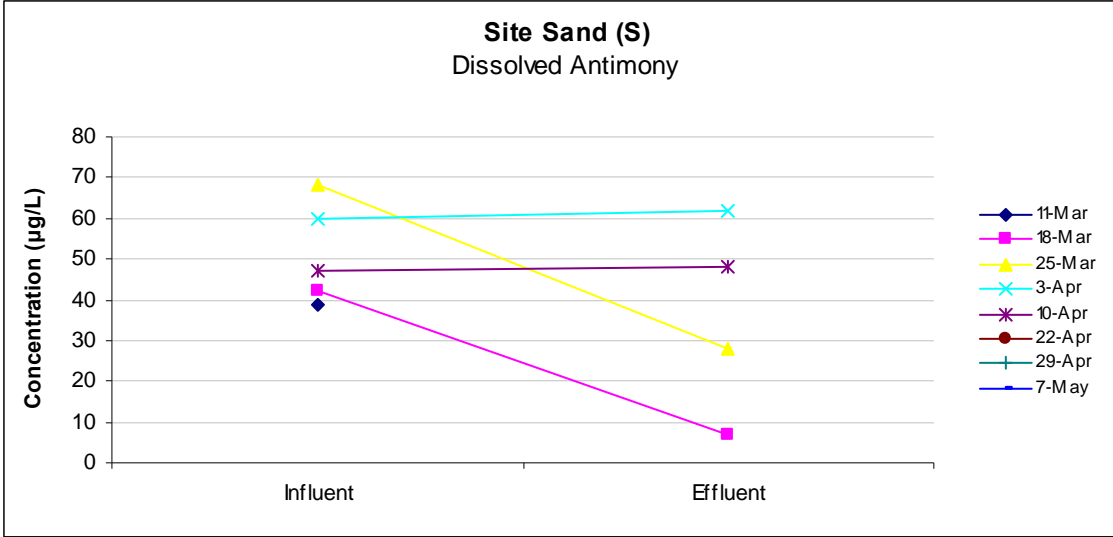
	df	SS	MS	F	Significance F
Regression	1.000	222.978	222.978	0.297	0.640
Residual	2.000	1501.772	750.886		
Total	3.000	1724.750			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-3.057	73.420	-0.042	0.971	-318.959	312.846	-318.959	312.846
X Variable 1	0.725	1.330	0.545	0.640	-4.996	6.445	-4.996	6.445

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	27.374	-20.374
2	46.212	-18.212
3	40.416	21.584
4	30.997	17.003





## Site Zeolite

### Total As

MWH Zeolite

#### SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.740
R Square	0.547
Adjusted R Square	0.457
Standard Error	6.232
Observations	7.000

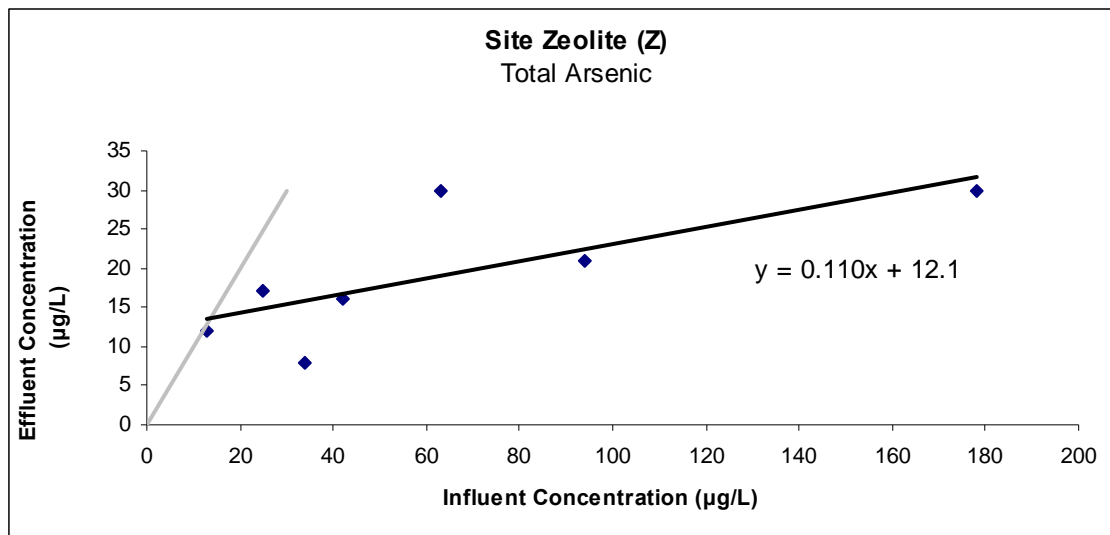
#### ANOVA

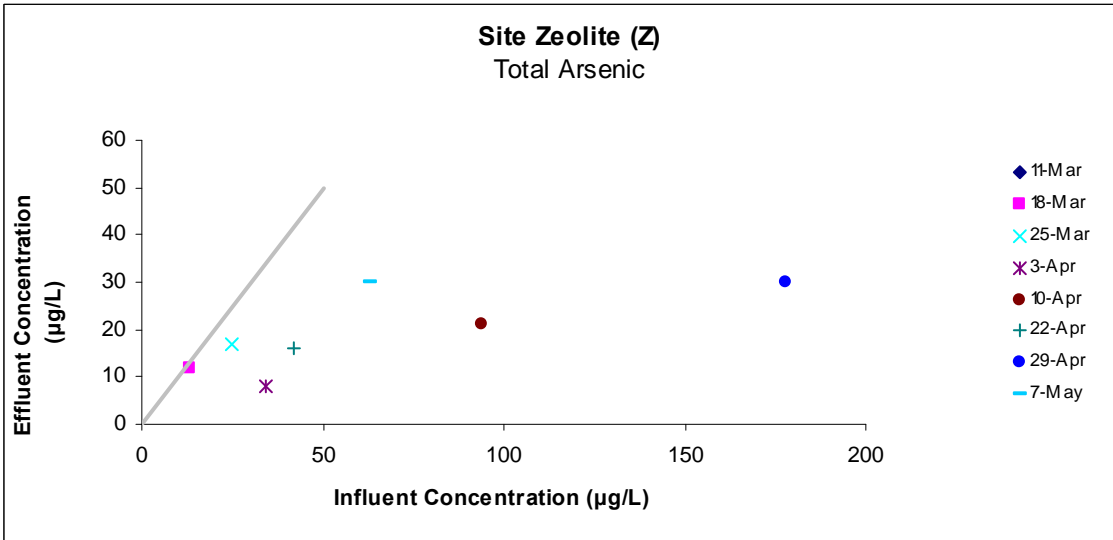
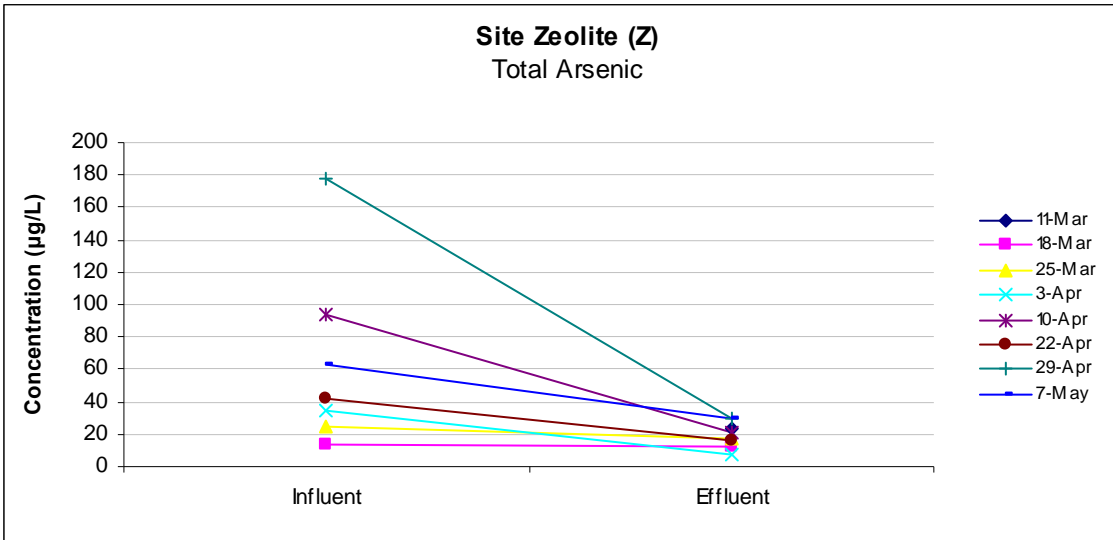
	df	SS	MS	F	Significance F
Regression	1.000	234.674	234.674	6.043	0.057
Residual	5.000	194.183	38.837		
Total	6.000	428.857			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	12.089	3.713	3.256	0.023	2.545	21.632	2.545	21.632
X Variable 1	0.110	0.045	2.458	0.057	-0.005	0.225	-0.005	0.225

#### RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	13.518	-1.518
2	14.838	2.162
3	15.828	-7.828
4	22.426	-1.426
5	16.708	-0.708
6	31.664	-1.664
7	19.017	10.983





# Dissolved As

MWH Zeolite

## SUMMARY OUTPUT

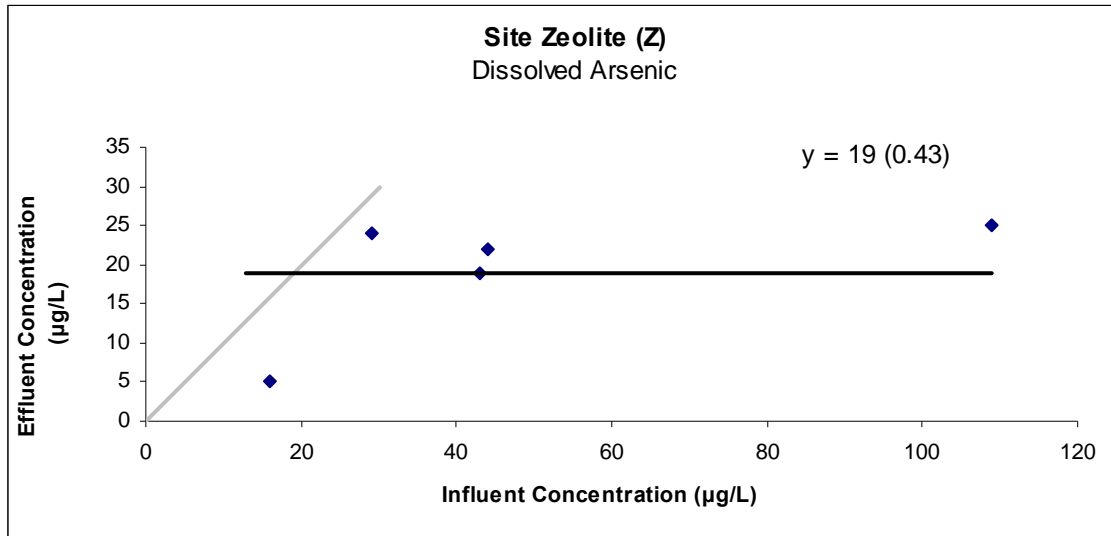
Regression Statistics	
Multiple R	0.604
R Square	0.365
Adjusted R Square	0.153
Standard Error	7.503
Observations	5.000

ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	97.118	97.118	1.725	0.280
Residual	3.000	168.882	56.294		
Total	4.000	266.000			

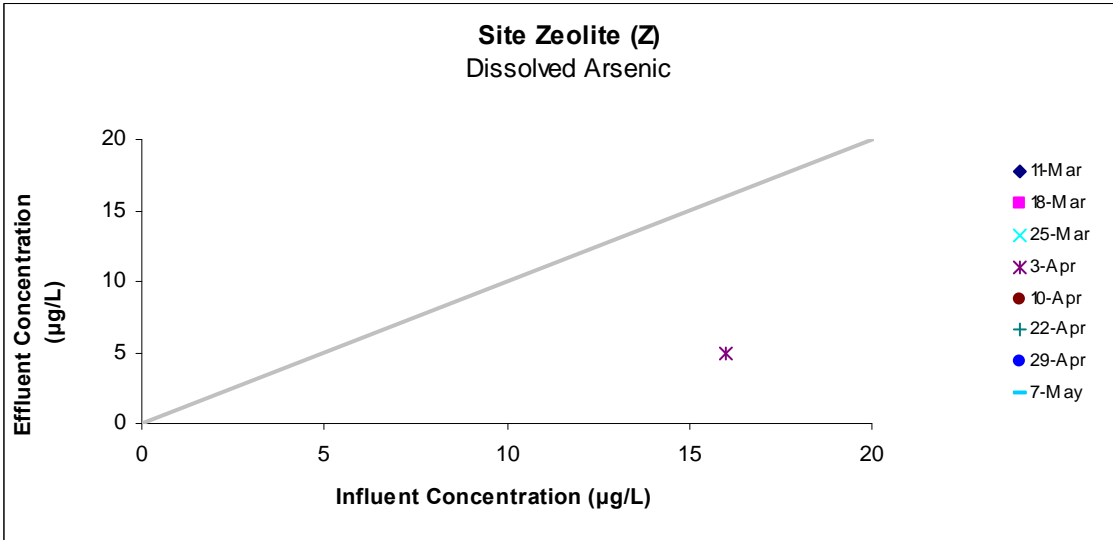
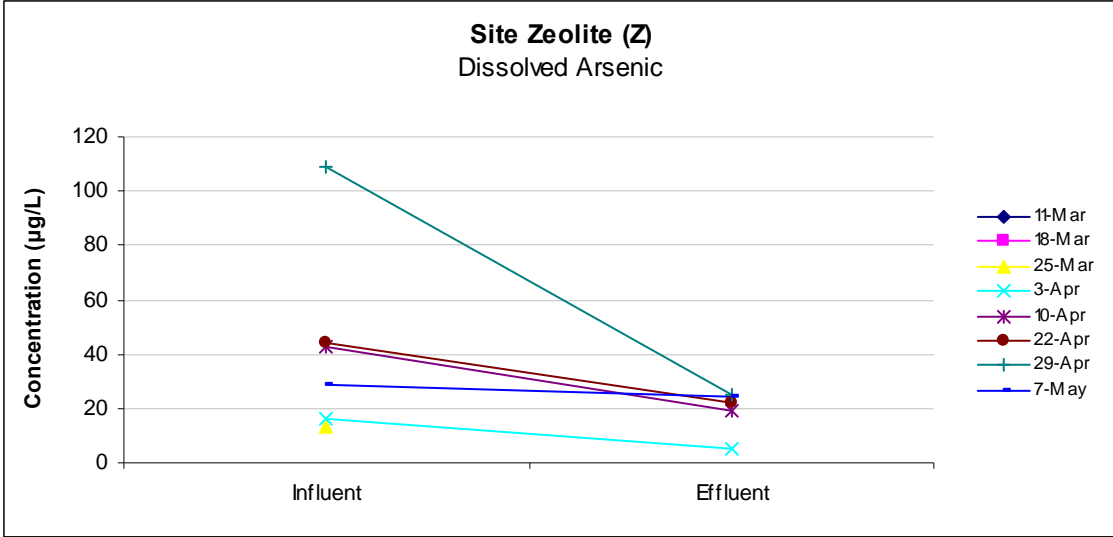
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	12.379	6.056	2.044	0.134	-6.893	31.650	-6.893	31.650
X Variable 1	0.137	0.106	1.313	0.280	-0.195	0.470	-0.195	0.470

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	14.577	-9.577
2	18.286	0.714
3	18.423	3.577
4	27.352	-2.352
5	16.363	7.637







# Total Al

MWH Zeolite

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.221
R Square	0.049
Adjusted R Square	-0.110
Standard Error	183.689
Observations	8.000

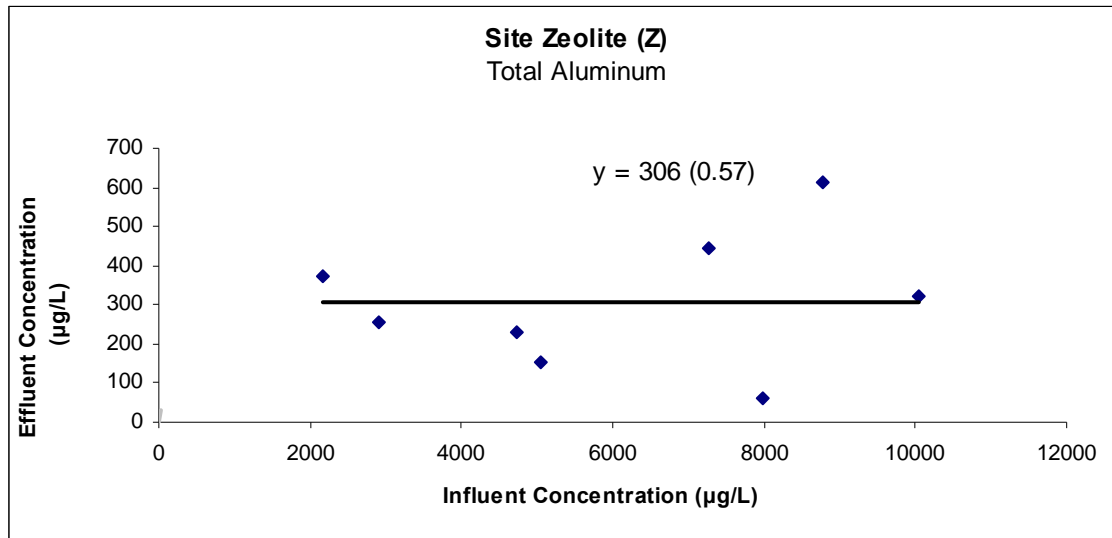
## ANOVA

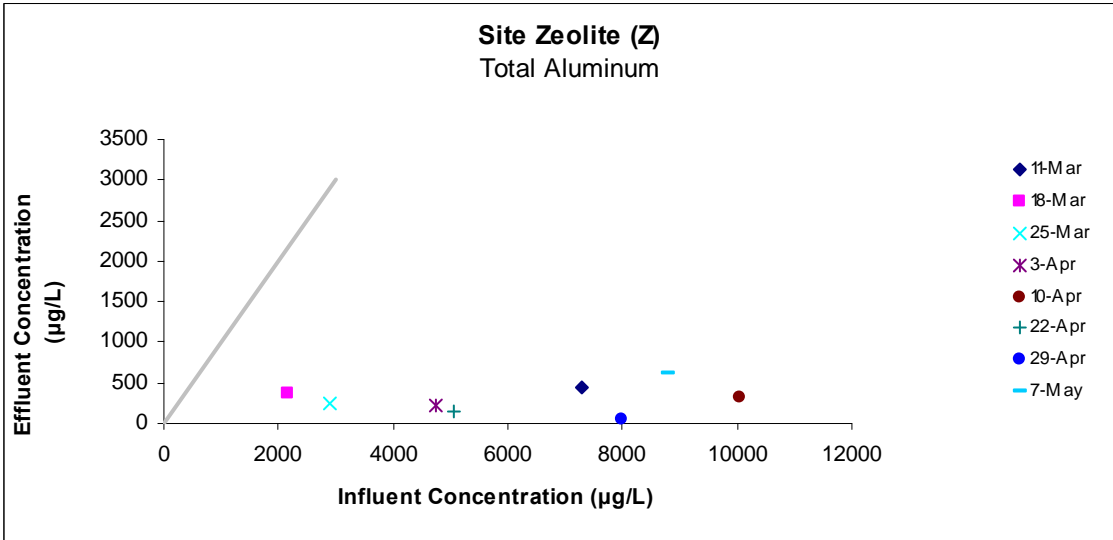
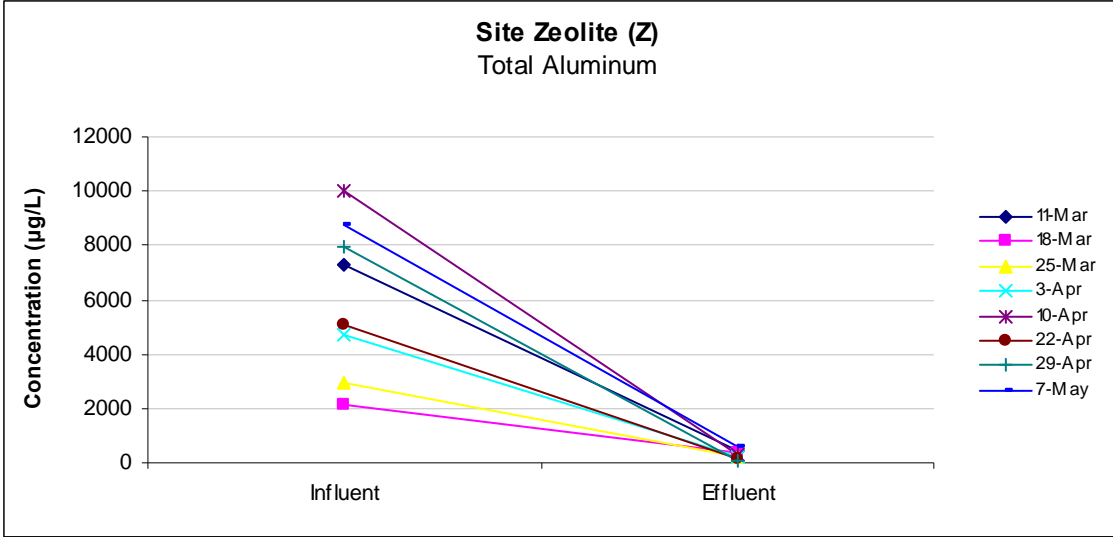
	df	SS	MS	F	Significance F
Regression	1.000	10367.970	10367.970	0.307	0.599
Residual	6.000	202448.905	33741.484		
Total	7.000	212816.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	223.171	163.133	1.368	0.220	-176.001	622.343	-176.001	622.343
X Variable 1	0.014	0.024	0.554	0.599	-0.046	0.073	-0.046	0.073

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	321.875	124.125
2	252.409	118.591
3	262.639	-7.639
4	287.359	-58.359
5	359.349	-37.349
6	291.633	-139.633
7	331.468	-272.468
8	342.267	272.733





# Dissolved Al

MWH Zeolite

## SUMMARY OUTPUT

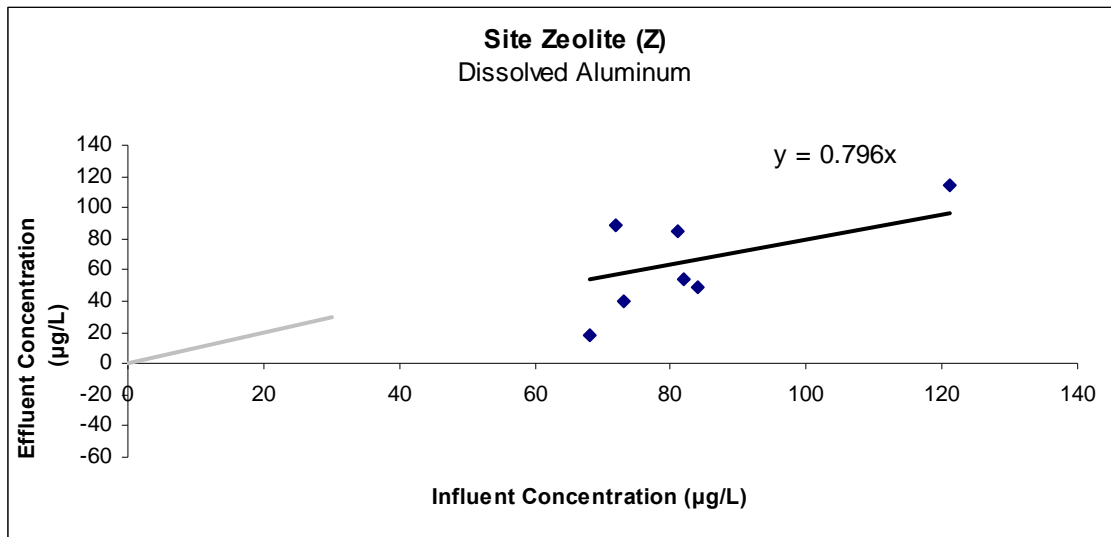
Regression Statistics	
Multiple R	0.944
R Square	0.892
Adjusted R Square	0.725
Standard Error	25.344
Observations	7.000

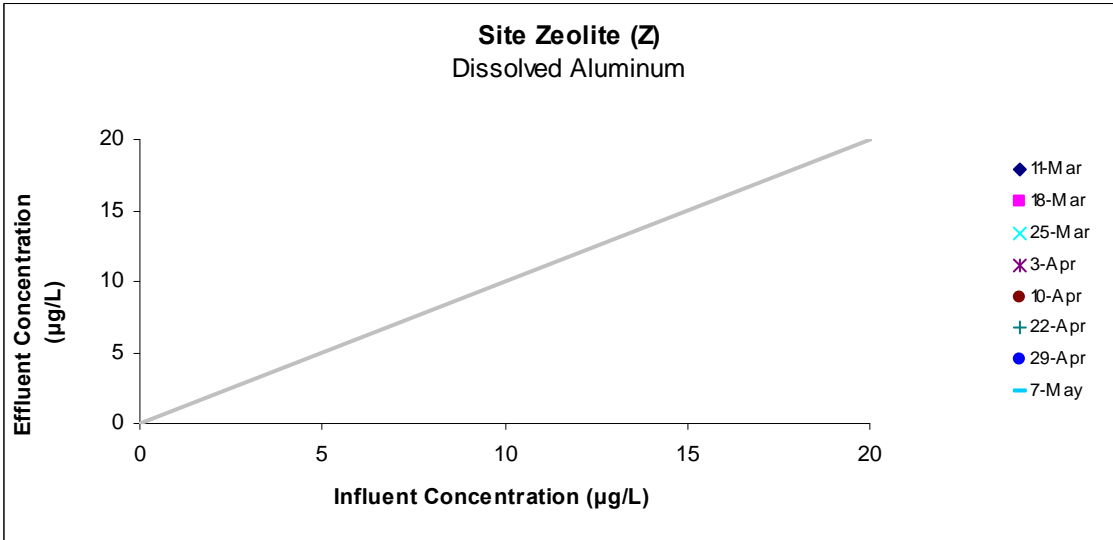
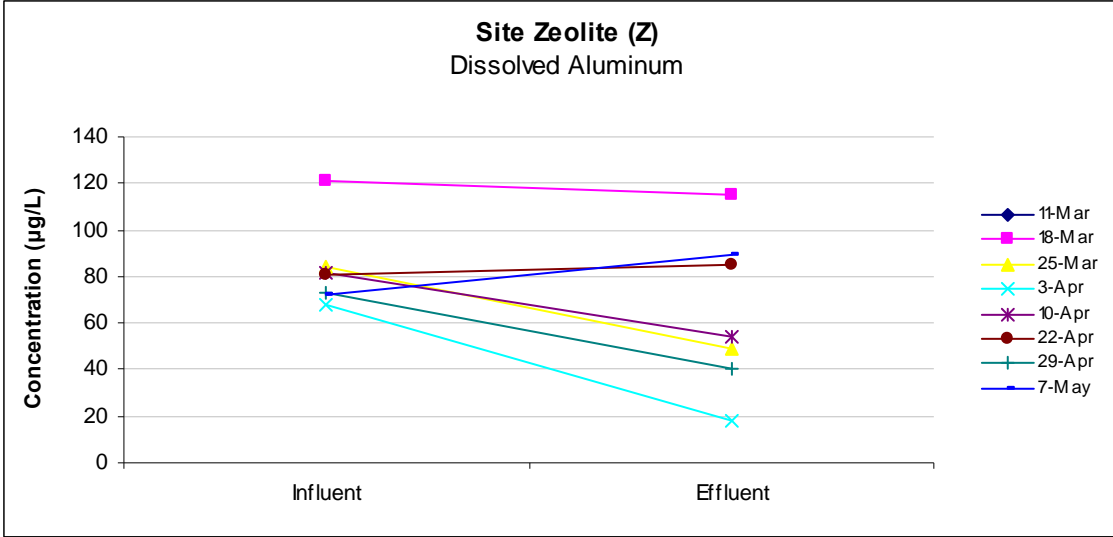
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	31758.232	31758.232	49.445	0.001
Residual	6.000	3853.768	642.295		
Total	7.000	35612.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	0.796	0.113	7.032	0.000	0.519	1.073	0.519	1.073

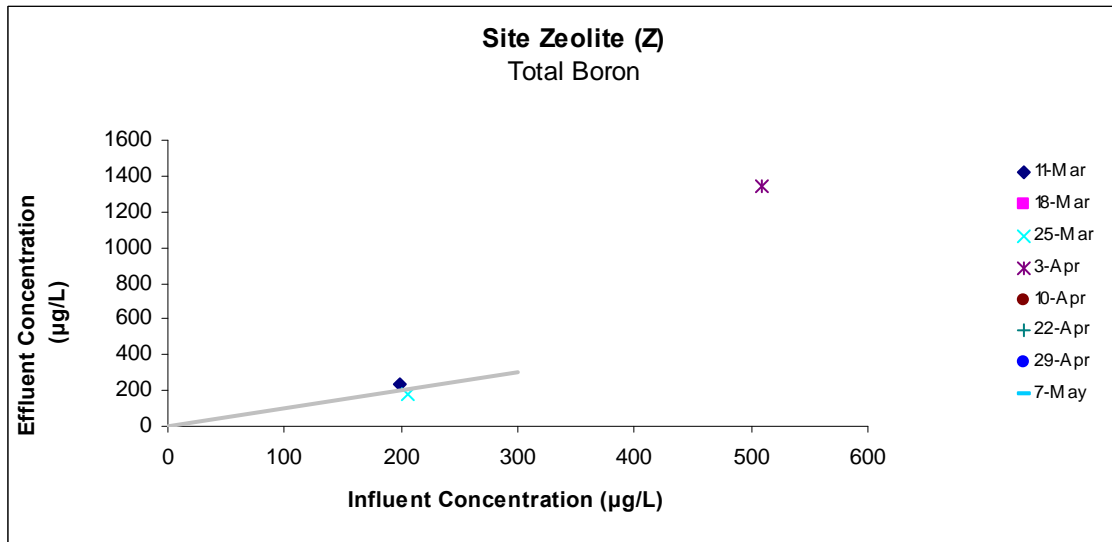
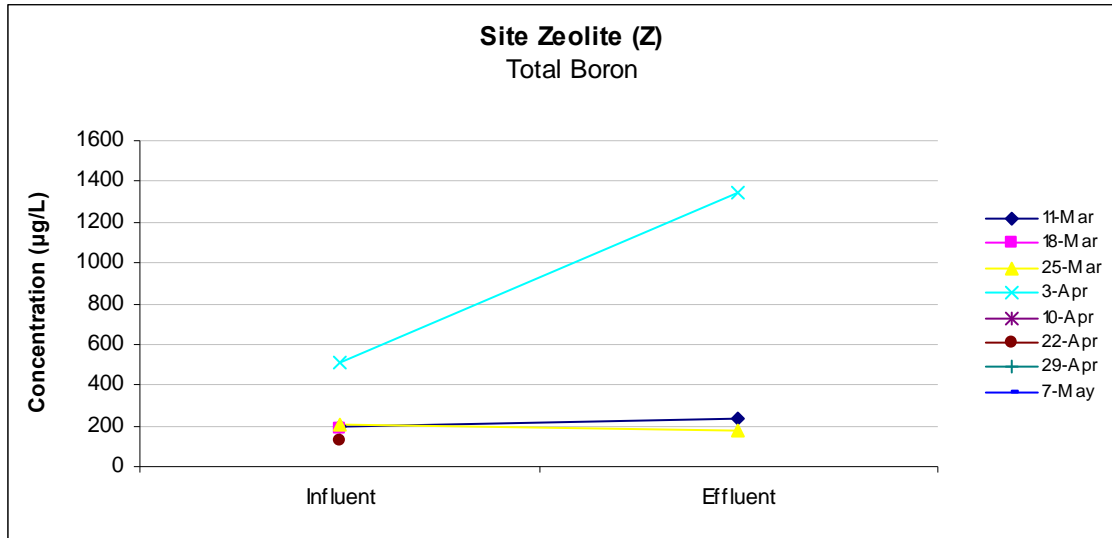
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	96.319	18.681
2	66.866	-17.866
3	54.130	-36.130
4	85.274	-11.274
5	64.478	20.522
6	58.110	-18.110
7	57.314	31.686

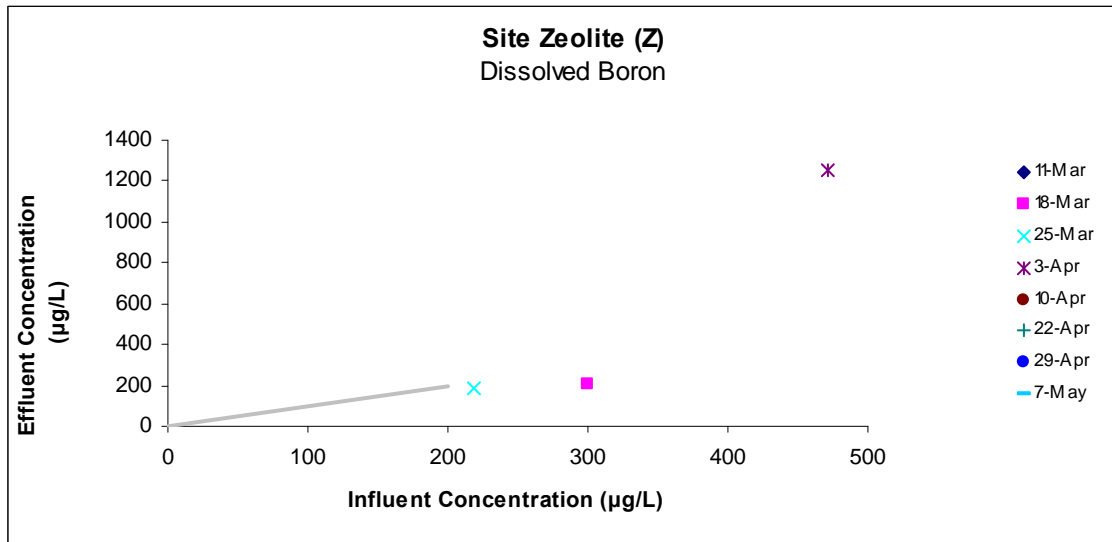
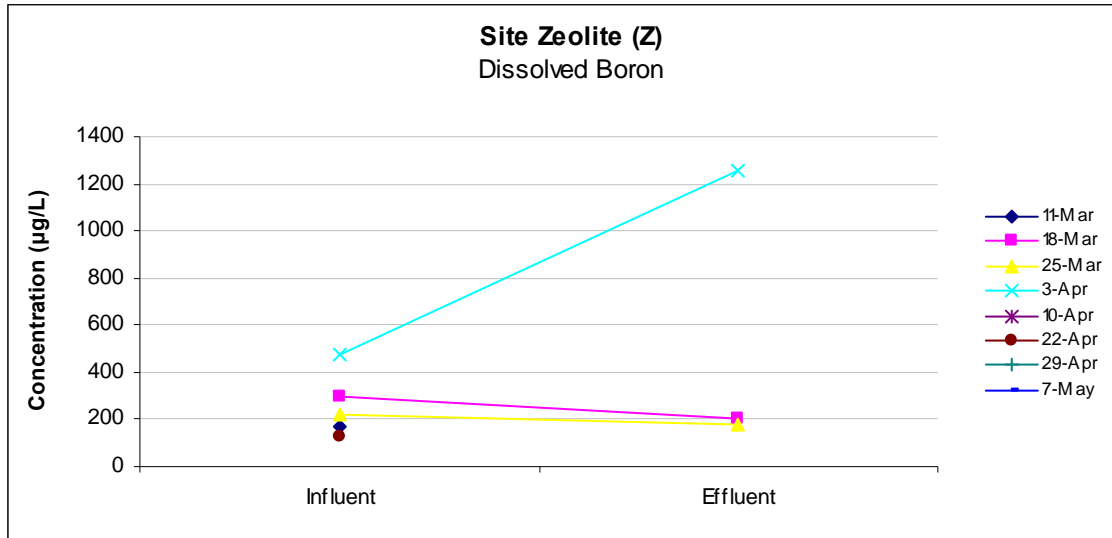




Total B



Dissolved B



# Total Ca

MWH Zeolite

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.219
R Square	0.048
Adjusted R Square	-0.111
Standard Error	7647.729
Observations	8.000

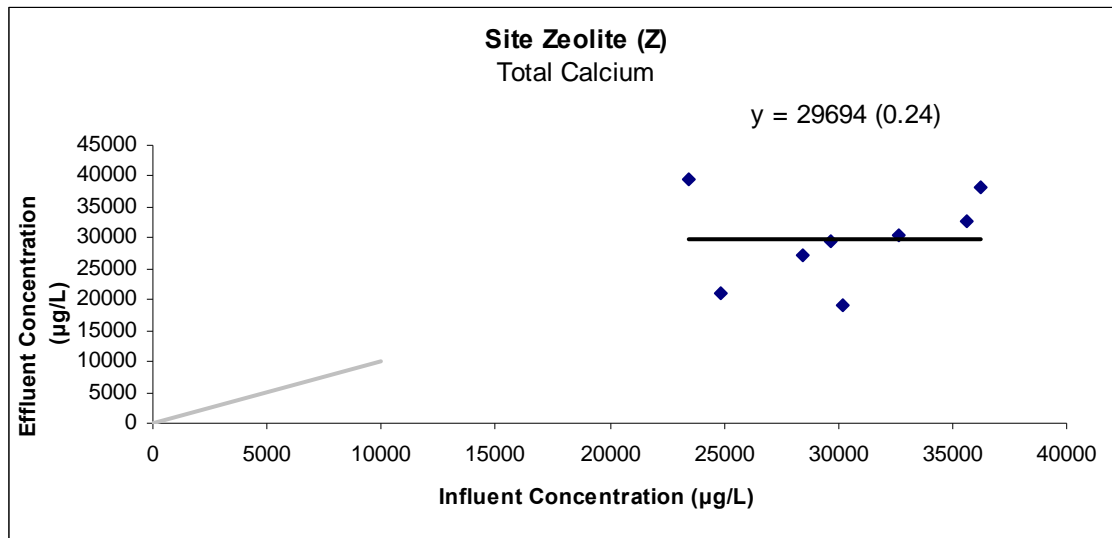
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	17682507.289	17682507.289	0.302	0.602
Residual	6.000	350926598.586	58487766.431		
Total	7.000	368609105.875			

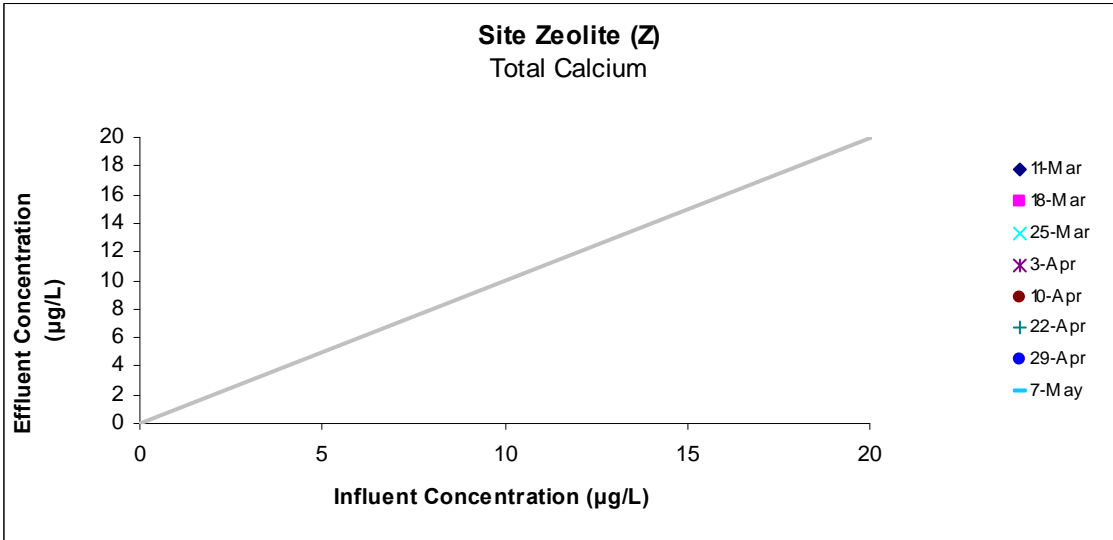
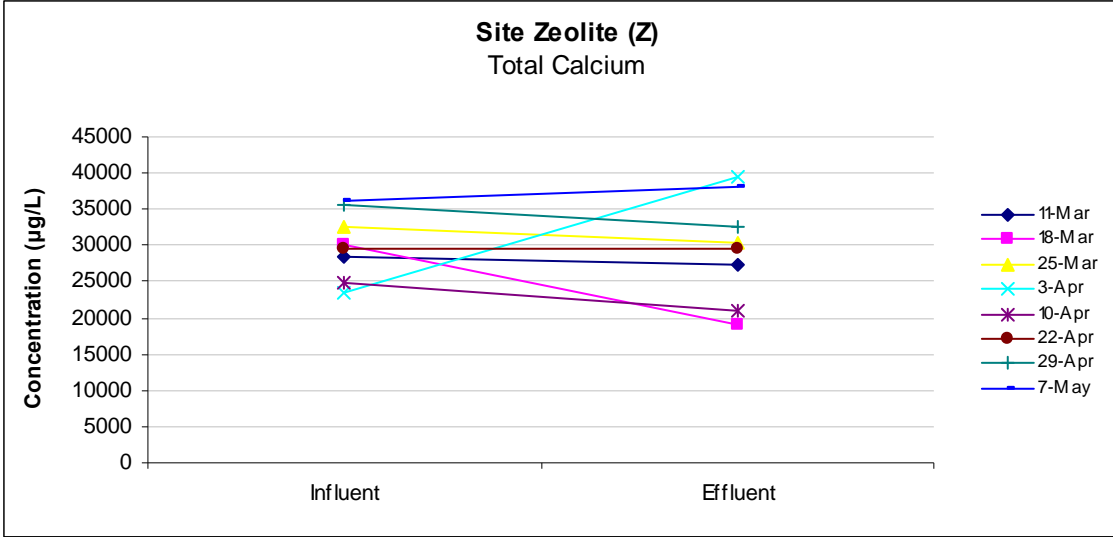
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	19308.288	19081.698	1.012	0.351	-27382.945	65999.520	-27382.945	65999.520
X Variable 1	0.345	0.627	0.550	0.602	-1.189	1.878	-1.189	1.878

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	29101.082	-1835.082
2	29717.504	-10602.504
3	30554.100	-211.100
4	27398.946	12207.054
5	27876.165	-6773.165
6	29527.995	-17.995
7	31574.693	965.307
8	31804.515	6267.485







# Dissolved Ca

MVH Zeolite

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.455
R Square	0.207
Adjusted R Square	0.075
Standard Error	8494.553
Observations	8.000

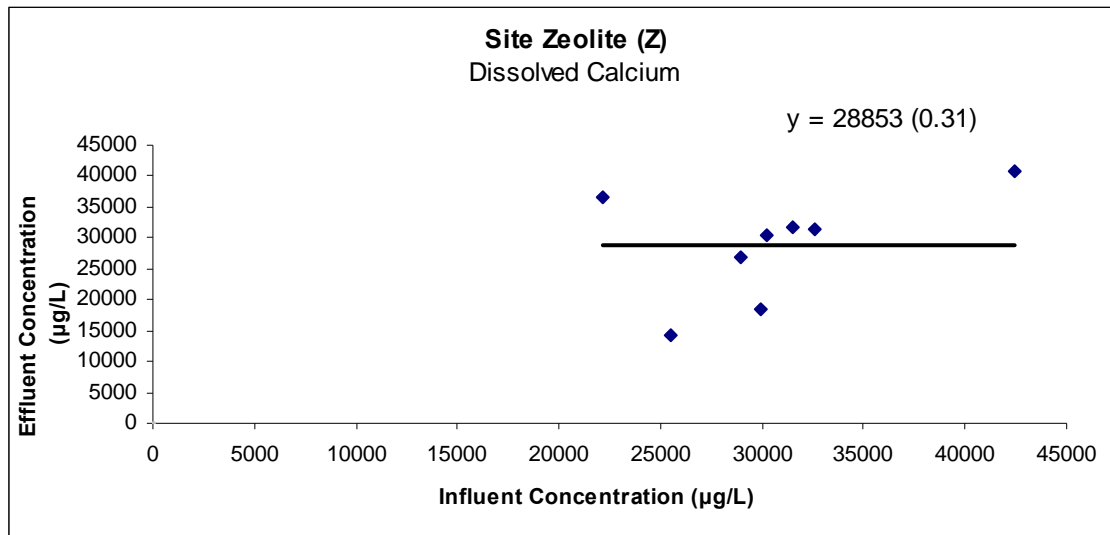
## ANOVA

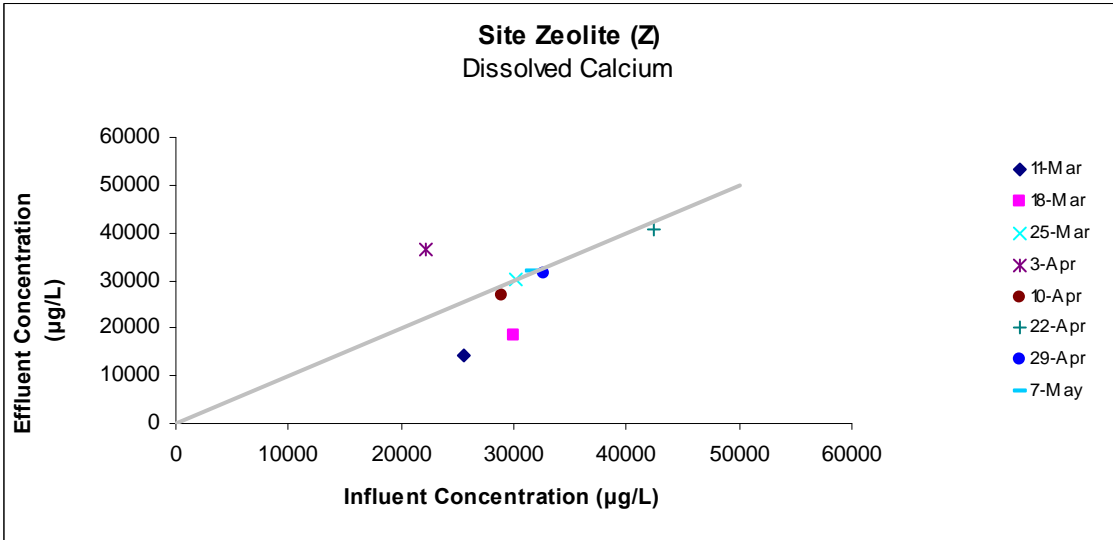
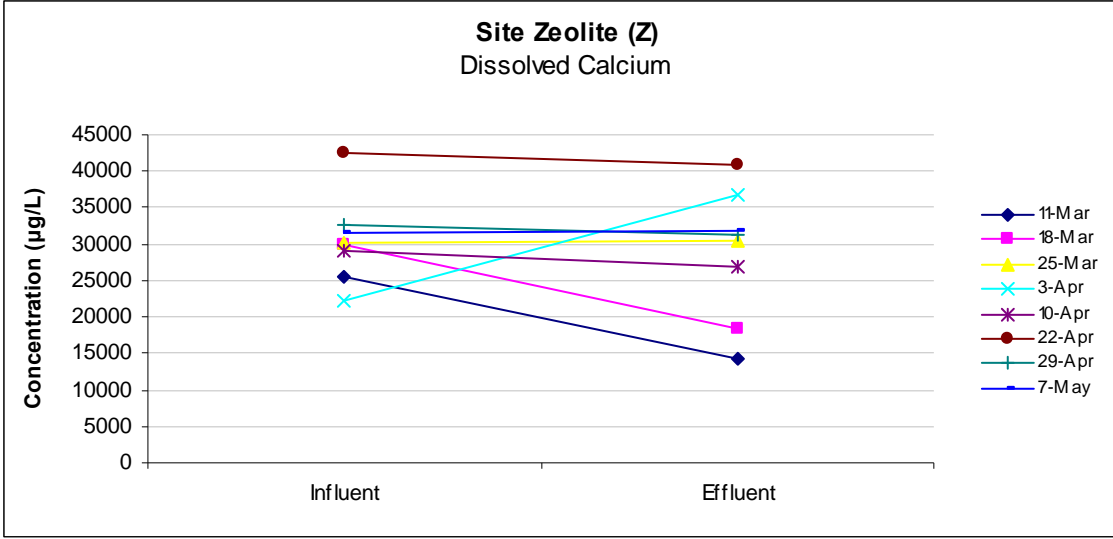
	df	SS	MS	F	Significance F
Regression	1.000	113186119.411	113186119.411	1.569	0.257
Residual	6.000	432944568.089	72157428.015		
Total	7.000	546130687.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	8163.540	16790.336	0.486	0.644	-32920.931	49248.011	-32920.931	49248.011
X Variable 1	0.680	0.543	1.252	0.257	-0.648	2.008	-0.648	2.008

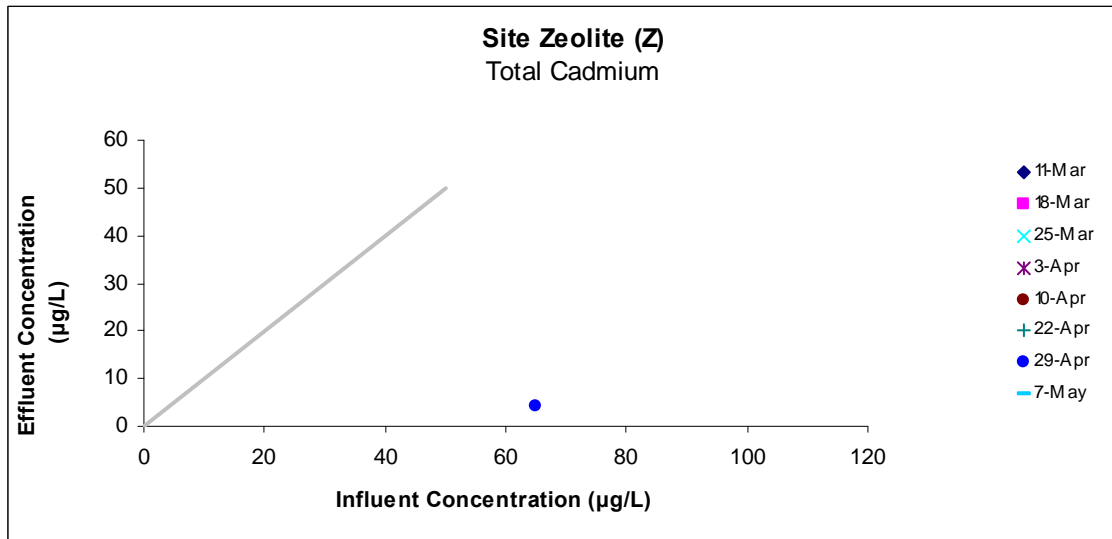
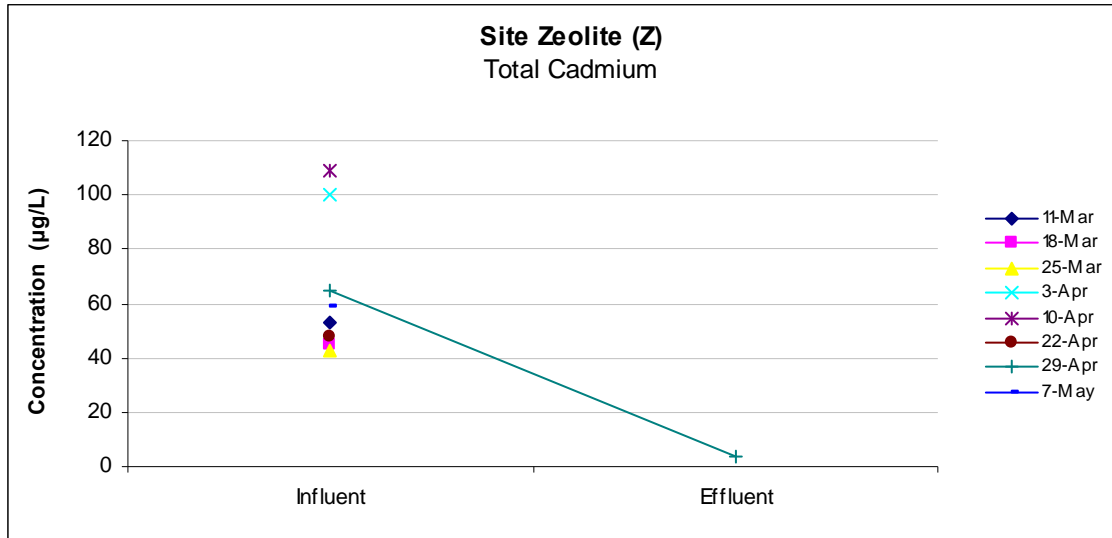
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	25503.034	-11144.034
2	28550.586	-10133.586
3	28742.333	1597.667
4	23222.470	13476.530
5	27861.113	-910.113
6	37000.368	3679.632
7	30350.423	989.577
8	29595.674	2244.326

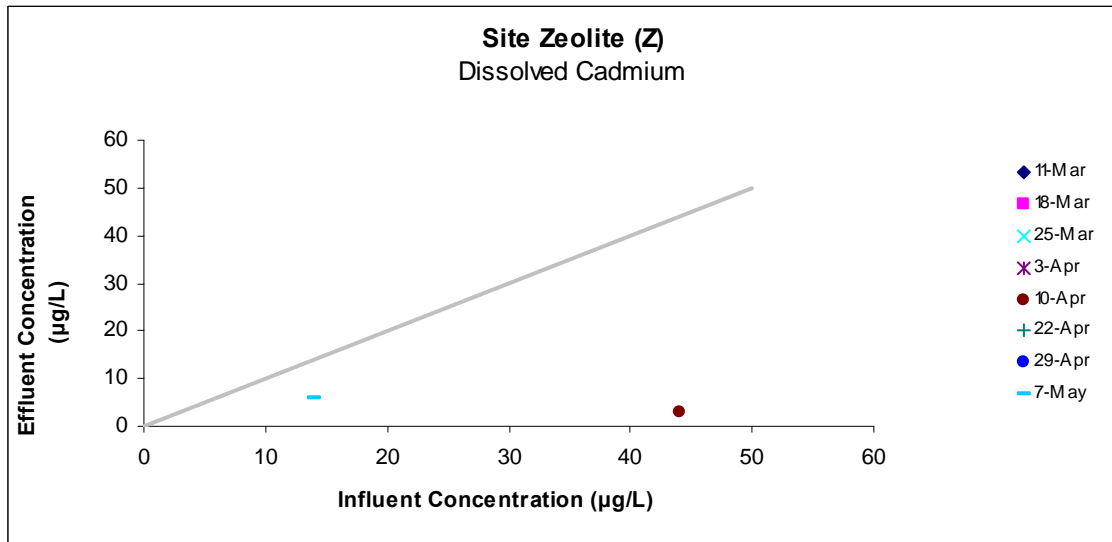
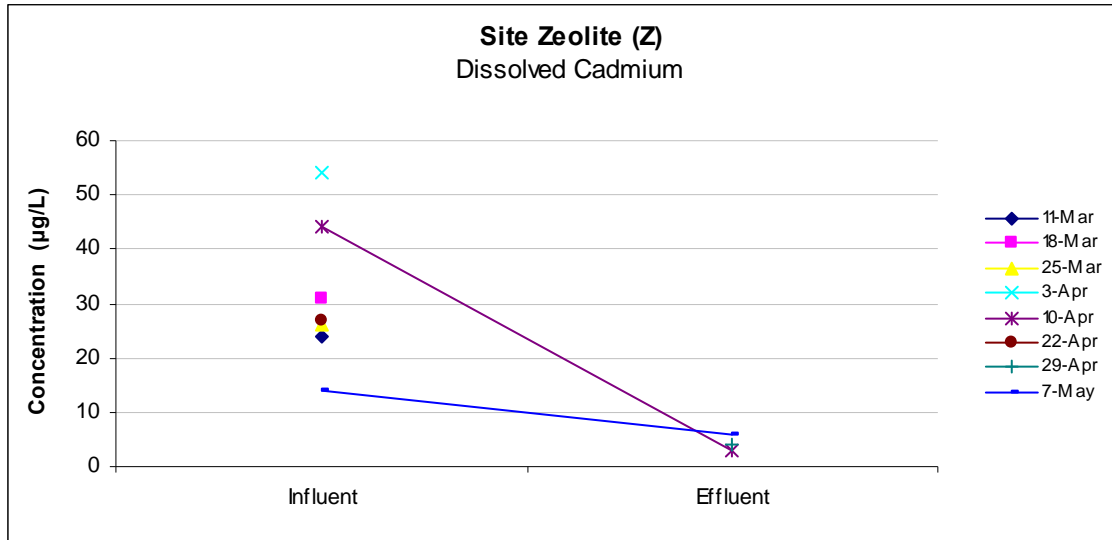




Total Cd



Dissolved Cd



# Total Cu

MWH Zeolite

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.948
R Square	0.898
Adjusted R Square	0.755
Standard Error	15.568
Observations	8.000

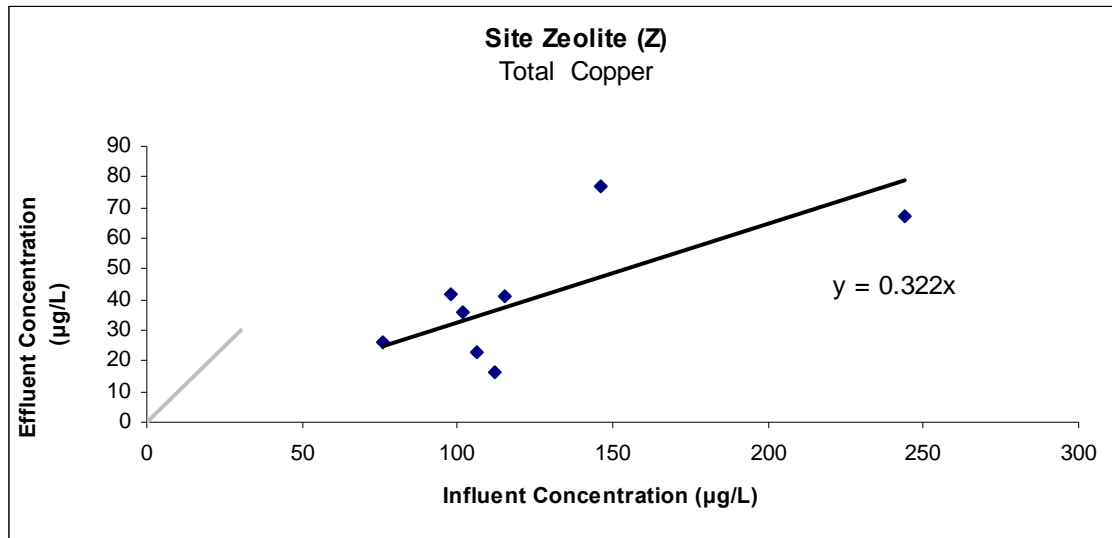
## ANOVA

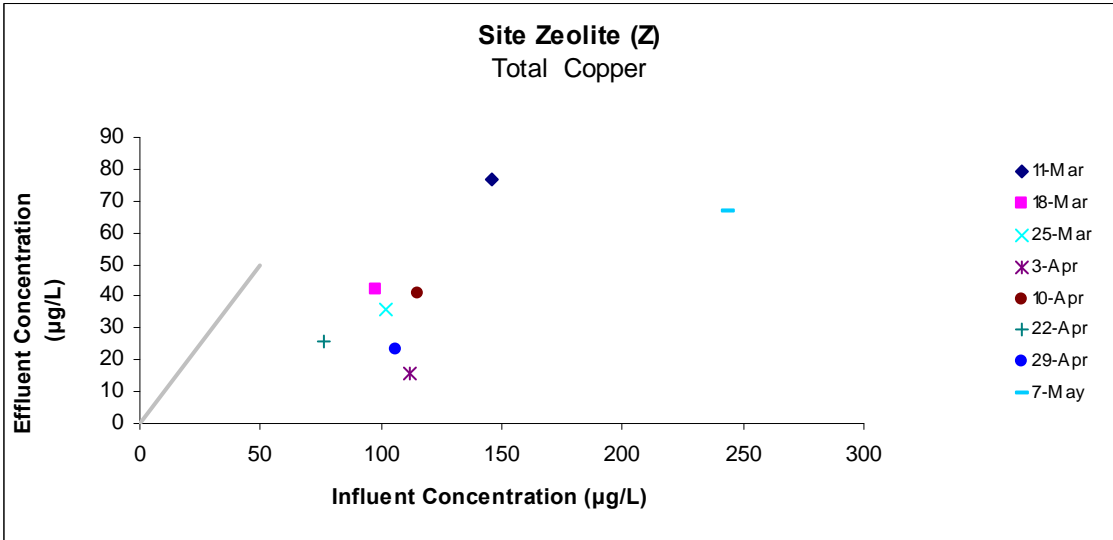
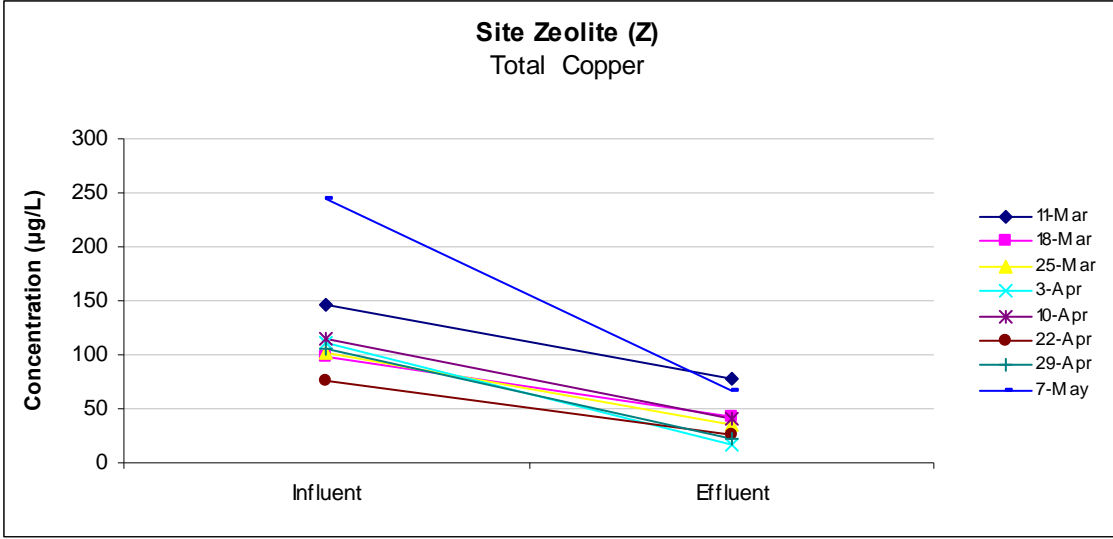
	df	SS	MS	F	Significance F
Regression	1.000	14923.298	14923.298	61.568	0.000
Residual	7.000	1696.702	242.386		
Total	8.000	16620.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	0.322	0.041	7.847	0.000	0.225	0.419	0.225	0.419

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	47.059	29.941
2	31.588	10.412
3	32.877	3.123
4	36.100	-20.100
5	37.067	3.933
6	24.497	1.503
7	34.166	-11.166
8	78.647	-11.647





# Dissolved Cu

MWH Zeolite

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.249
R Square	0.062
Adjusted R Square	-0.094
Standard Error	8.658
Observations	8.000

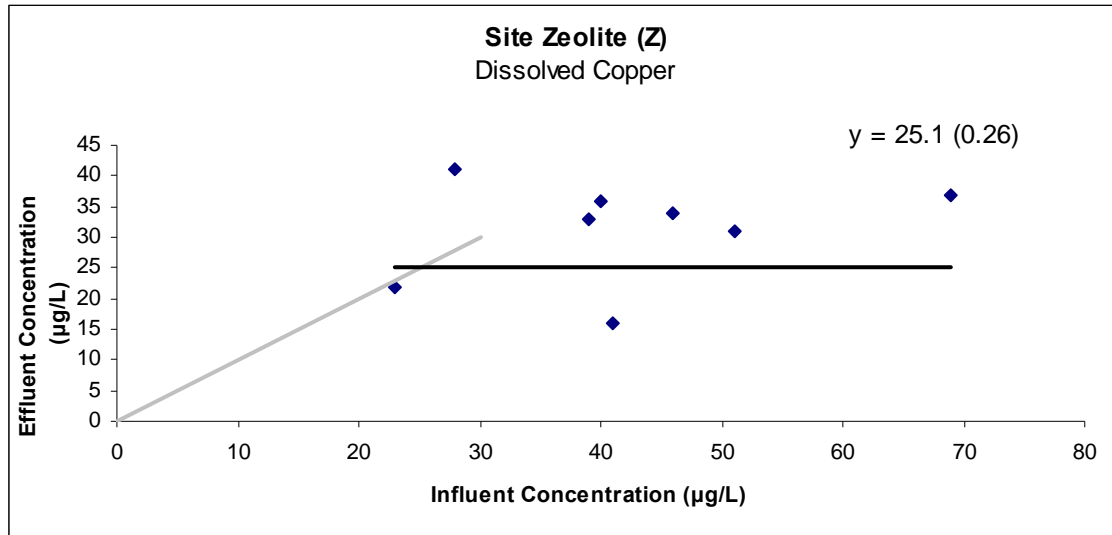
## ANOVA

	df	SS	MS	F	Significance F
Regression	1.000	29.719	29.719	0.396	0.552
Residual	6.000	449.781	74.963		
Total	7.000	479.500			

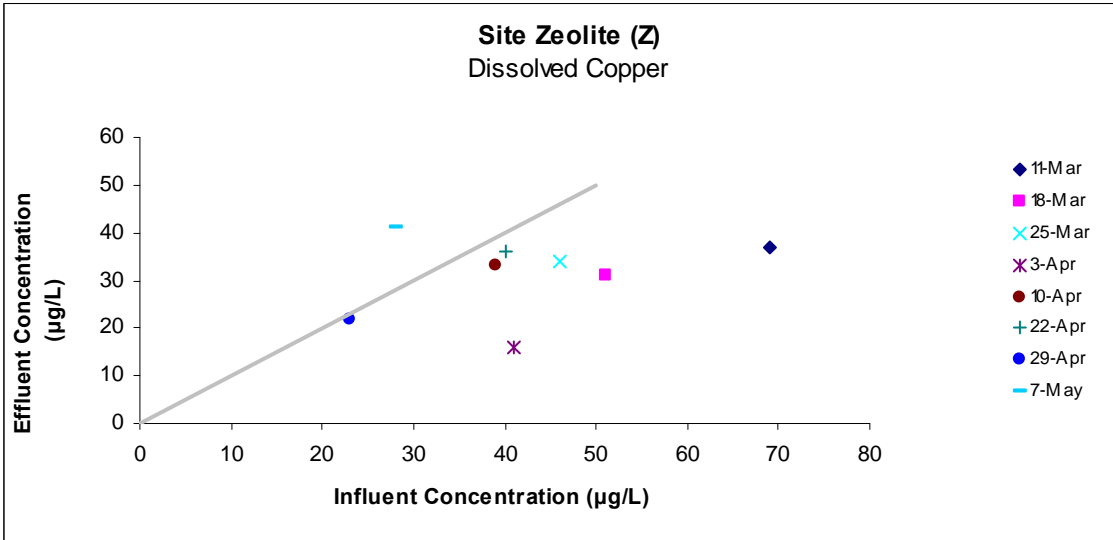
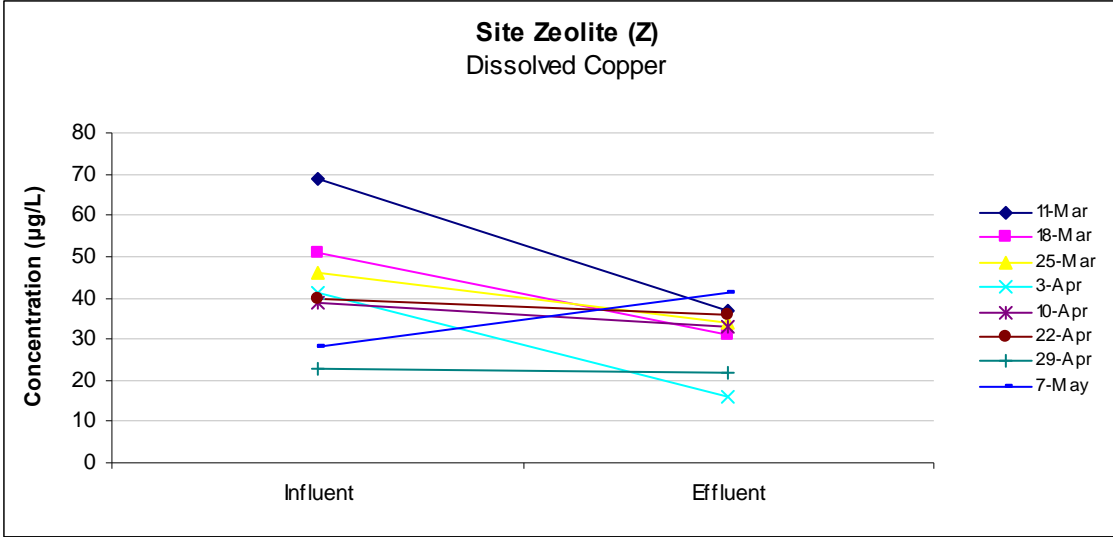
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	25.106	10.227	2.455	0.049	0.080	50.131	0.080	50.131
X Variable 1	0.146	0.232	0.630	0.552	-0.421	0.713	-0.421	0.713

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	35.170	1.830
2	32.545	-1.545
3	31.815	2.185
4	31.086	-15.086
5	30.794	2.206
6	30.940	5.060
7	28.460	-8.460
8	29.190	11.810







# Total Fe

MWH Zeolite

## SUMMARY OUTPUT

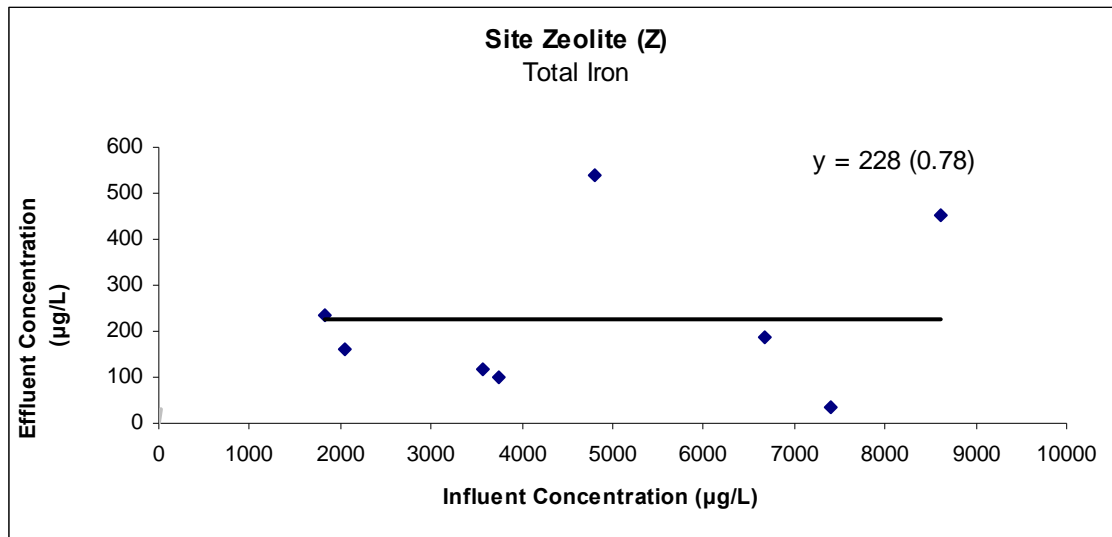
Regression Statistics	
Multiple R	0.235
R Square	0.055
Adjusted R Square	-0.102
Standard Error	187.000
Observations	8.000

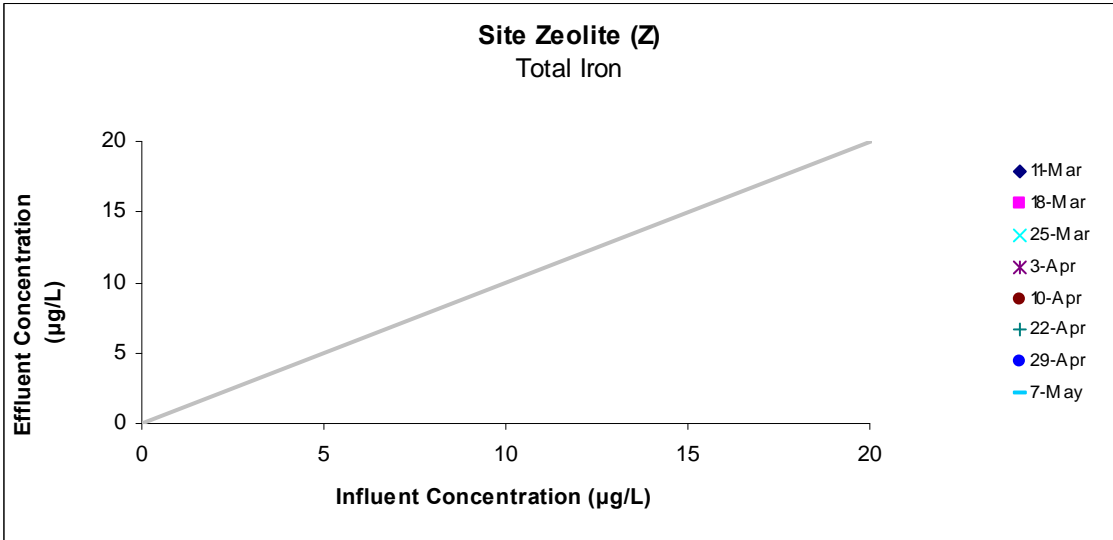
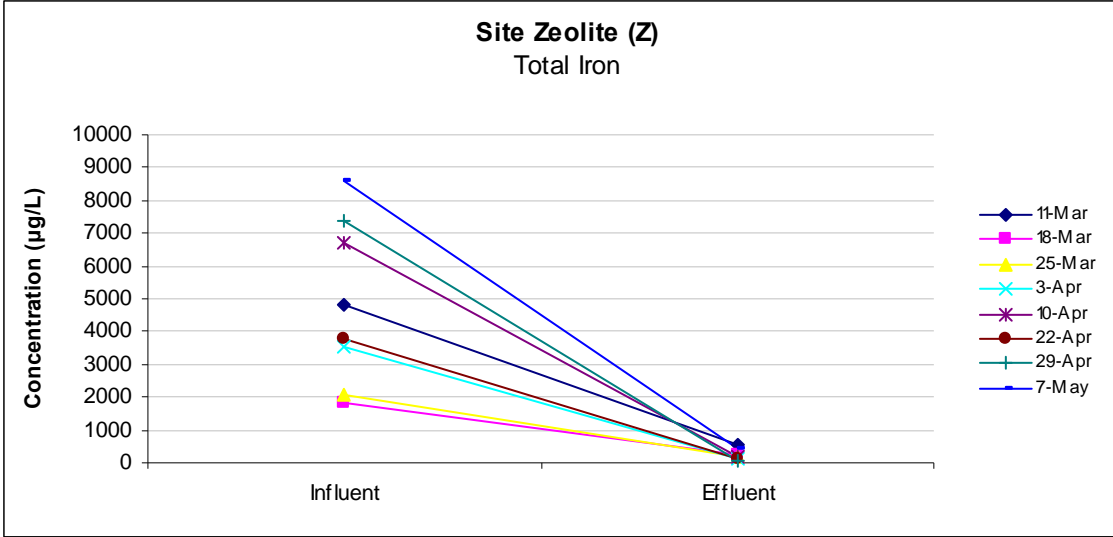
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	12224.873	12224.873	0.350	0.576
Residual	6.000	209814.627	34969.105		
Total	7.000	222039.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	147.581	151.610	0.973	0.368	-223.396	518.558	-223.396	518.558
X Variable 1	0.017	0.028	0.591	0.576	-0.052	0.086	-0.052	0.086

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	227.854	313.146
2	177.948	56.052
3	181.752	-22.752
4	206.947	-89.947
5	259.105	-71.105
6	210.151	-111.151
7	270.918	-236.918
8	291.324	162.676





# Dissolved Fe

MWH Zeolite

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.964
R Square	0.929
Adjusted R Square	0.762
Standard Error	15.692
Observations	7.000

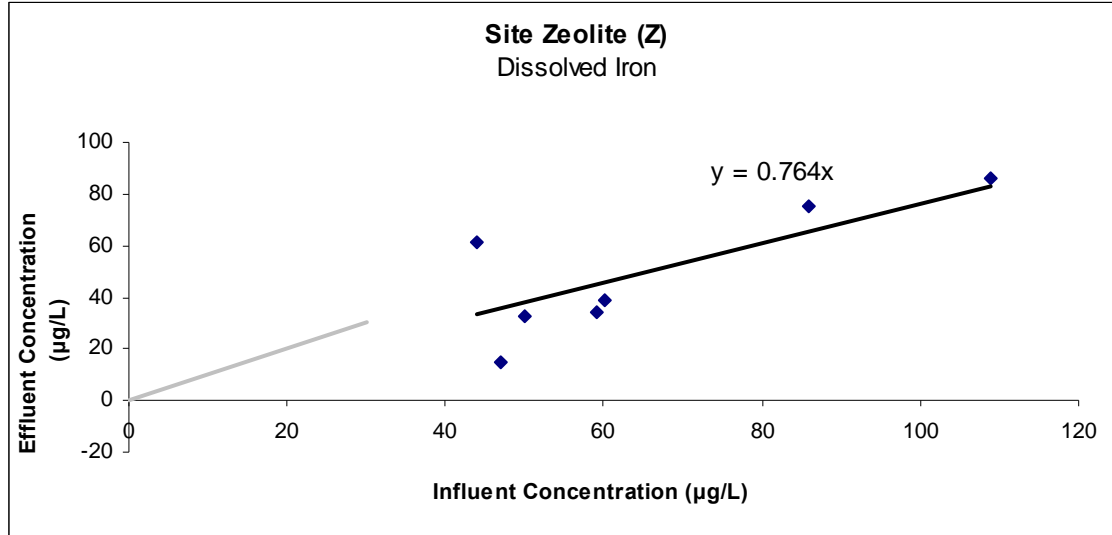
## ANOVA

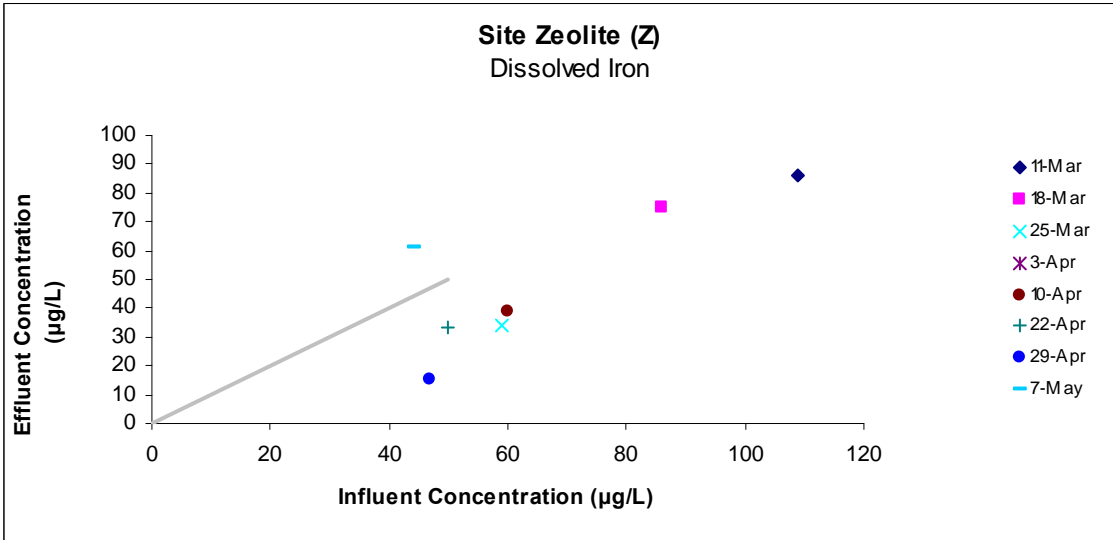
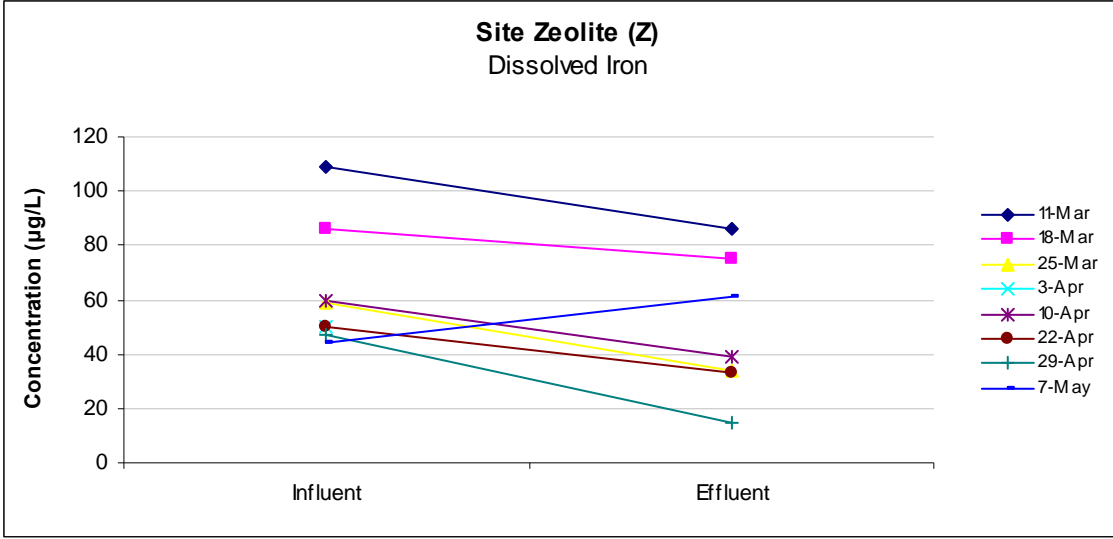
	df	SS	MS	F	Significance F
Regression	1.000	19255.634	19255.634	78.203	0.000
Residual	6.000	1477.366	246.228		
Total	7.000	20733.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	0.764	0.086	8.843	0.000	0.552	0.975	0.552	0.975

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	83.259	2.741
2	65.690	9.310
3	45.087	-11.067
4	45.830	-6.830
5	38.192	-5.192
6	35.900	-20.900
7	33.609	27.391





# Total Mg

MWH Zeolite

## SUMMARY OUTPUT

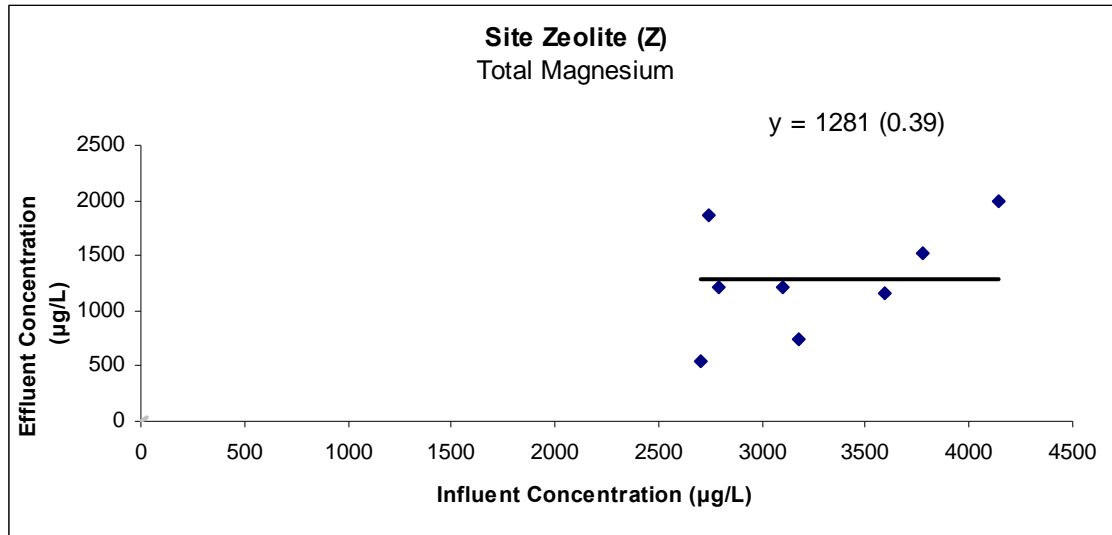
Regression Statistics	
Multiple R	0.481
R Square	0.231
Adjusted R Square	0.103
Standard Error	475.473
Observations	8.000

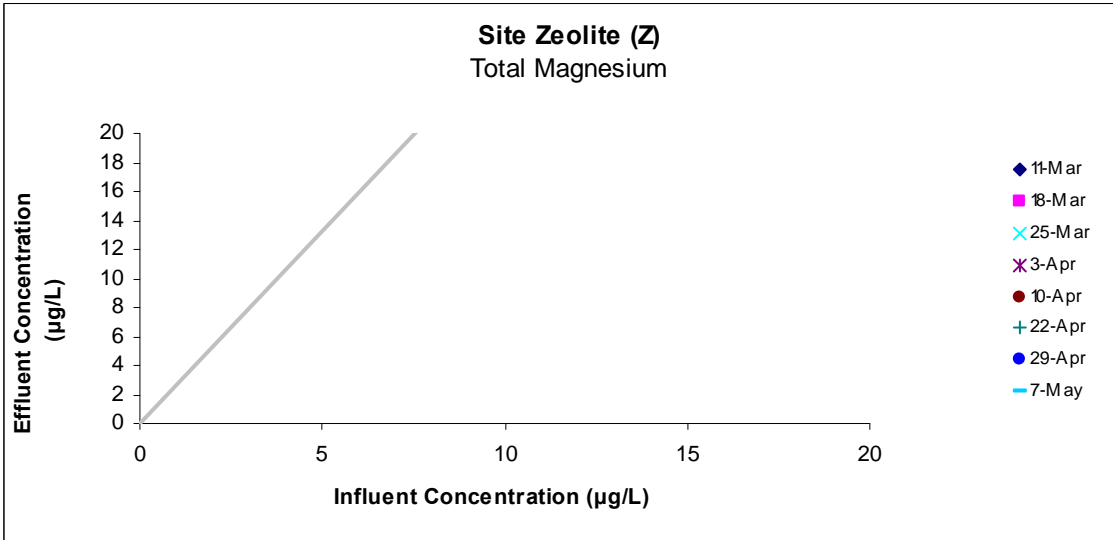
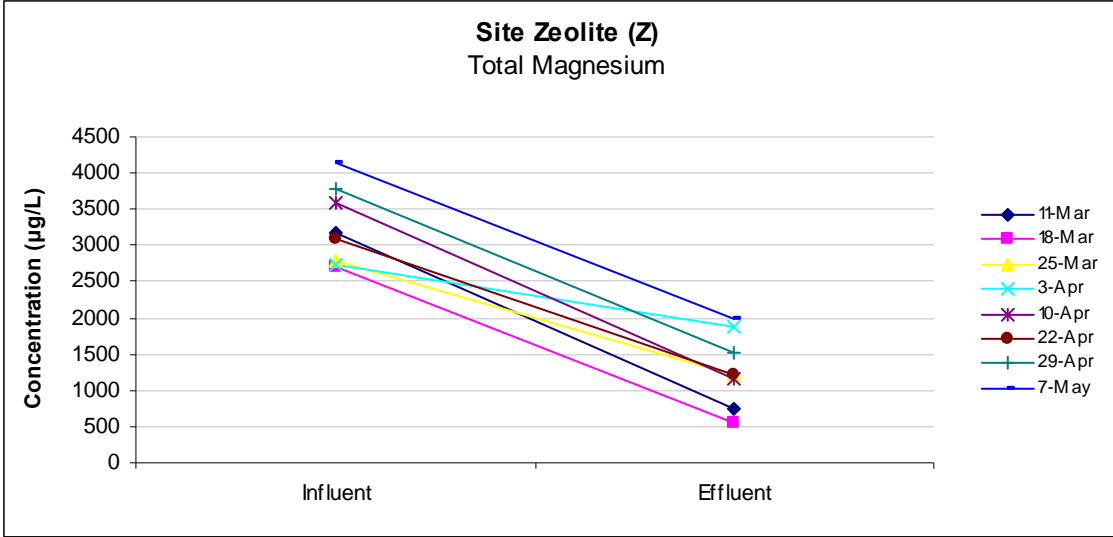
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	408013.964	408013.964	1.805	0.228
Residual	6.000	1356445.536	226074.256		
Total	7.000	1764459.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-197.277	1113.702	-0.177	0.865	-2922.407	2527.853	-2922.407	2527.853
X Variable 1	0.455	0.339	1.343	0.228	-0.374	1.283	-0.374	1.283

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	1248.438	-512.438
2	1032.877	-481.877
3	1071.078	139.922
4	1050.613	819.387
5	1435.348	-275.348
6	1212.056	1.944
7	1518.572	0.428
8	1685.018	307.982





# Dissolved Mg

MWH Zeolite

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.403
R Square	0.162
Adjusted R Square	0.023
Standard Error	563.514
Observations	8.000

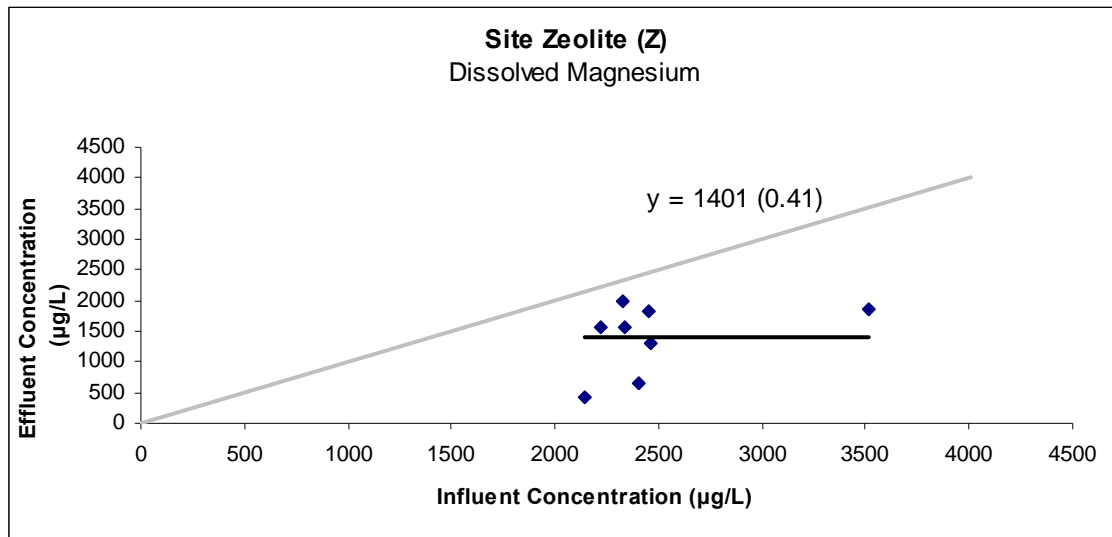
## ANOVA

	df	SS	MS	F	Significance F
Regression	1.000	369005.199	369005.199	1.162	0.322
Residual	6.000	1905289.676	317548.279		
Total	7.000	2274294.875			

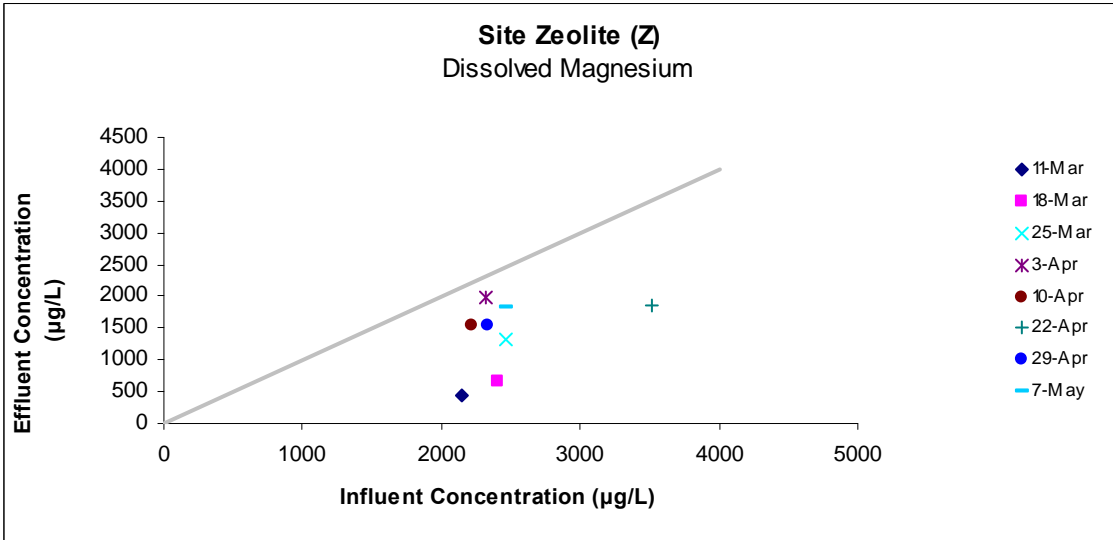
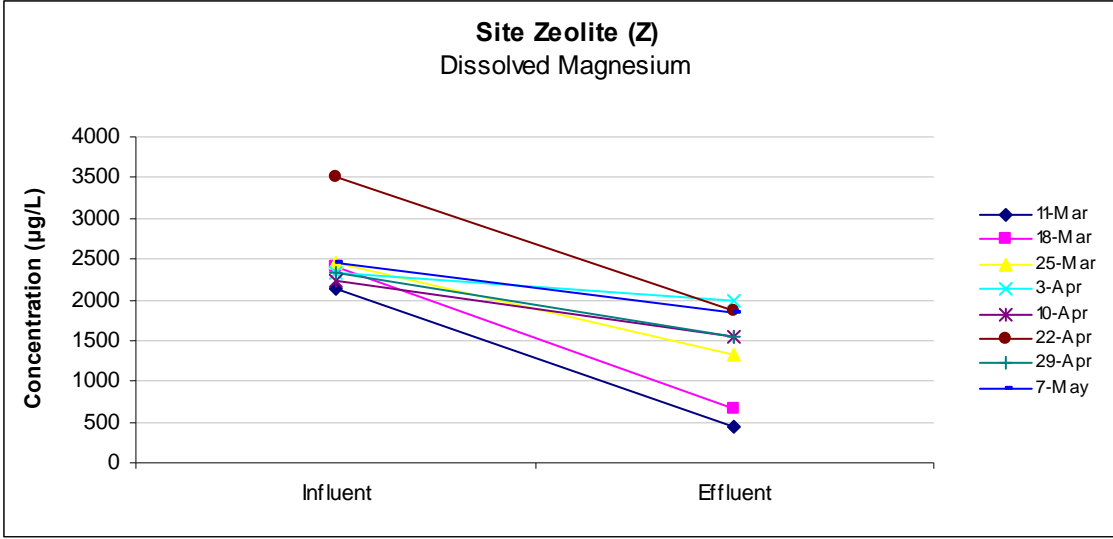
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	81.158	1240.582	0.065	0.950	-2954.437	3116.753	-2954.437	3116.753
X Variable 1	0.531	0.493	1.078	0.322	-0.675	1.738	-0.675	1.738

## RESIDUAL OUTPUT

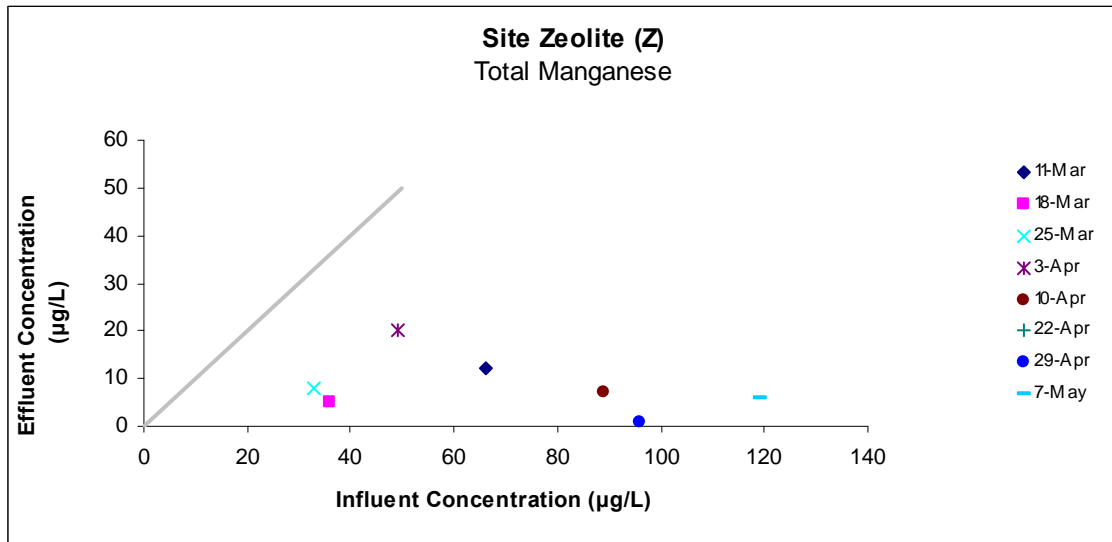
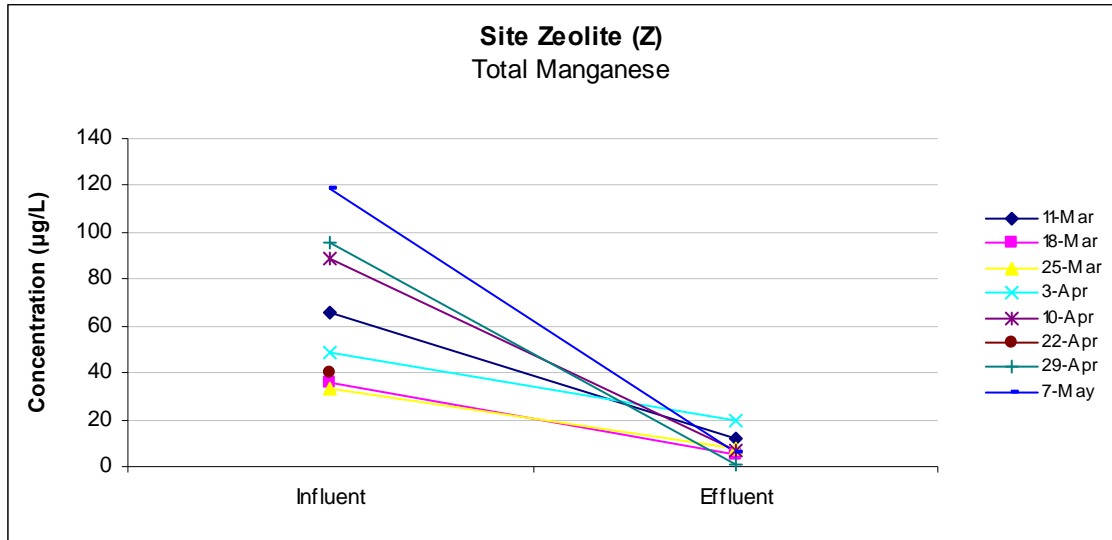
Observation	Predicted Y	Residuals
1	1220.683	-786.683
2	1358.871	-691.871
3	1390.229	-71.229
4	1317.946	679.054
5	1261.608	287.392
6	1950.425	-92.425
7	1322.198	232.802
8	1387.040	442.960



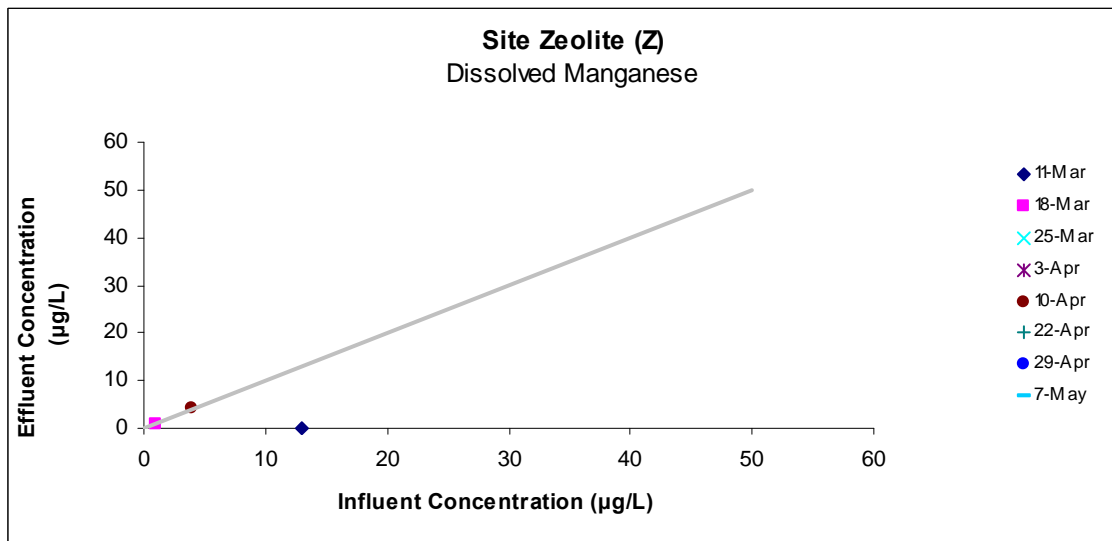
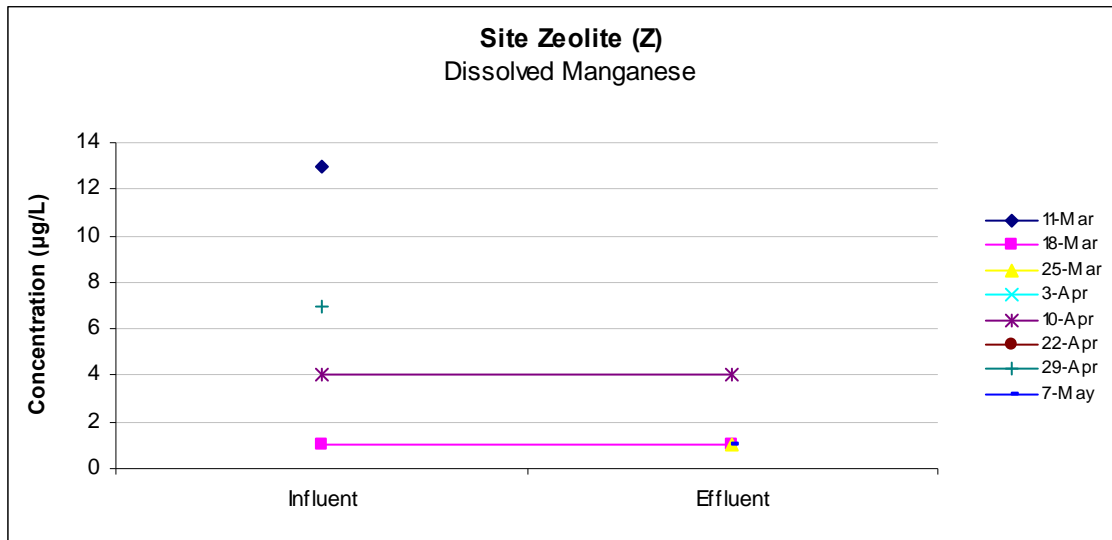




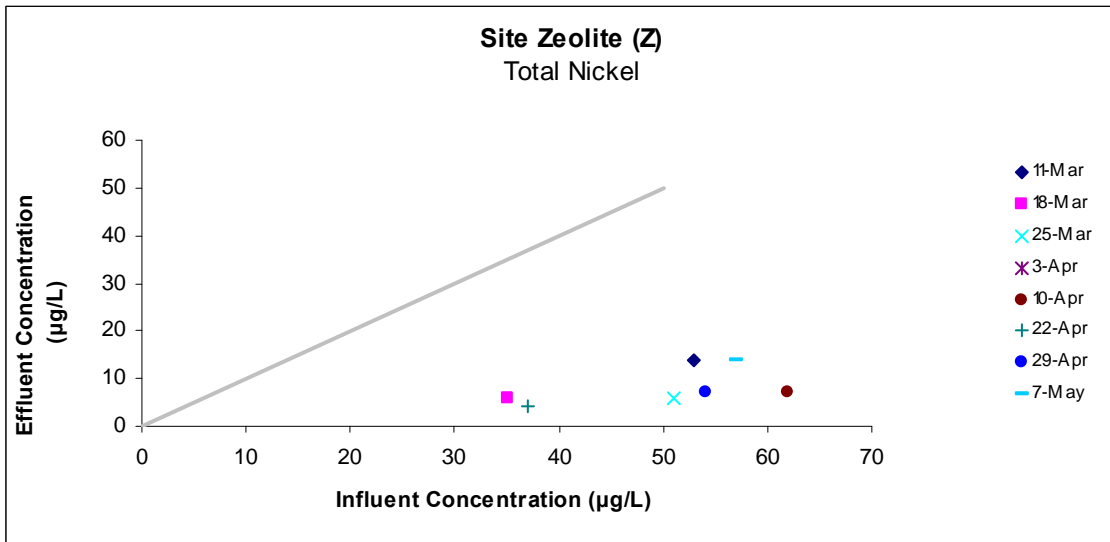
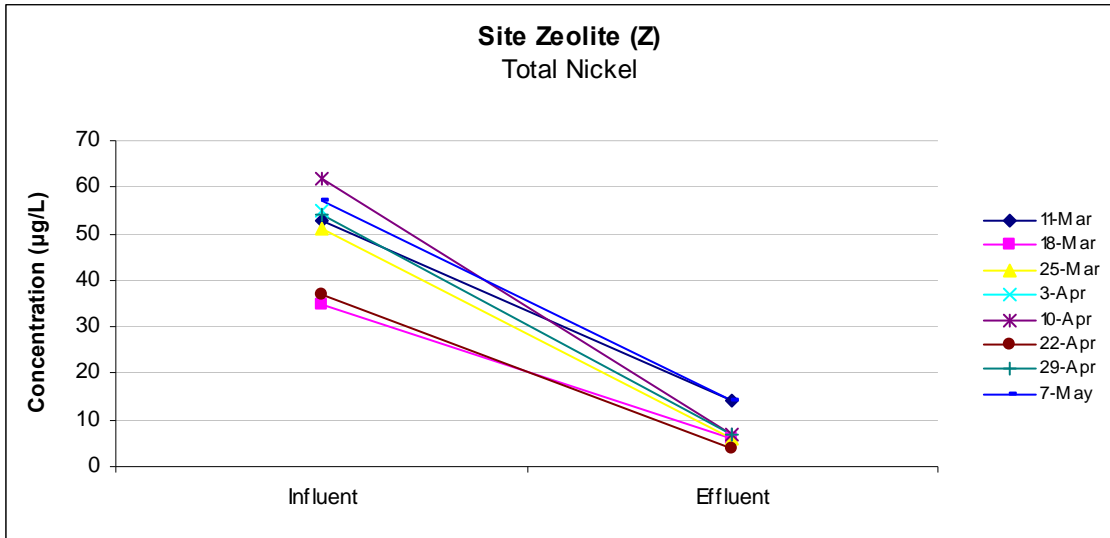
Total Mn



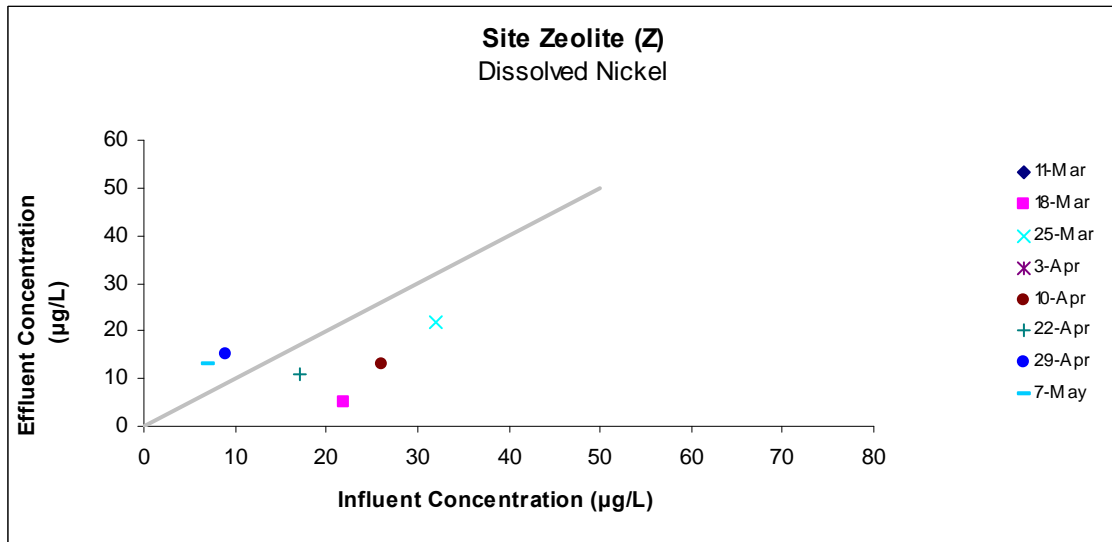
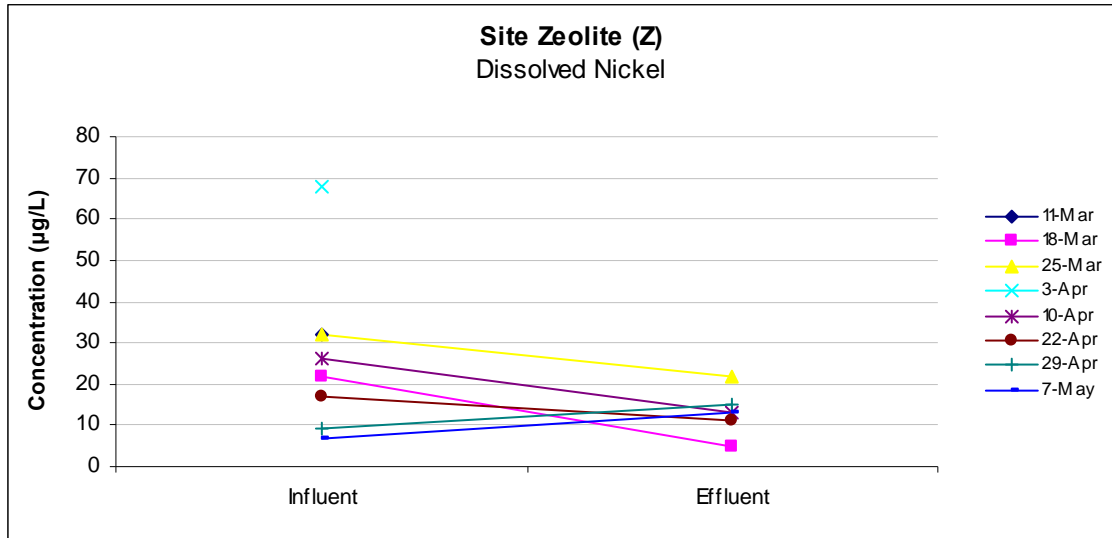
# Dissolved Mn



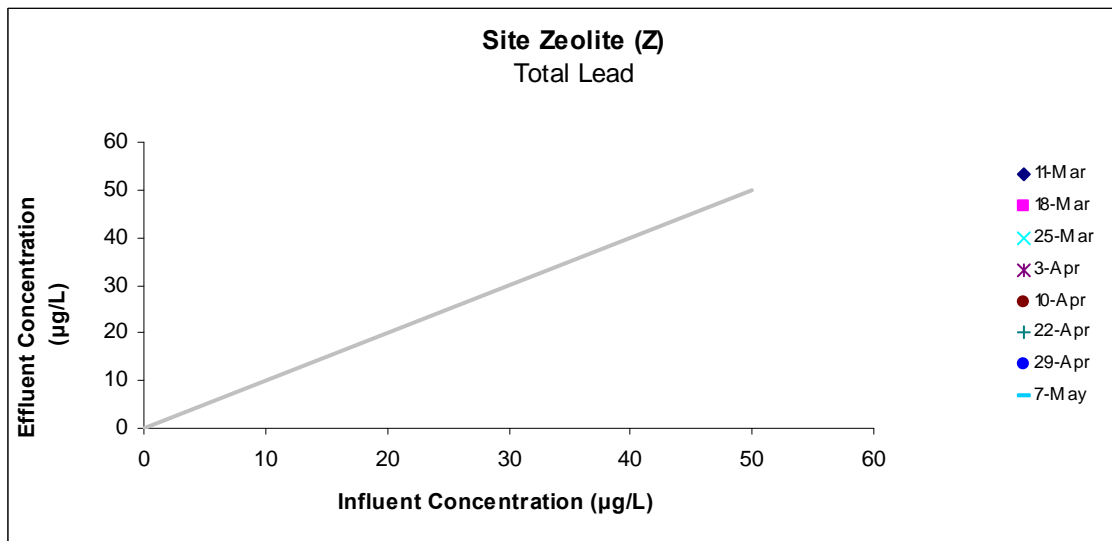
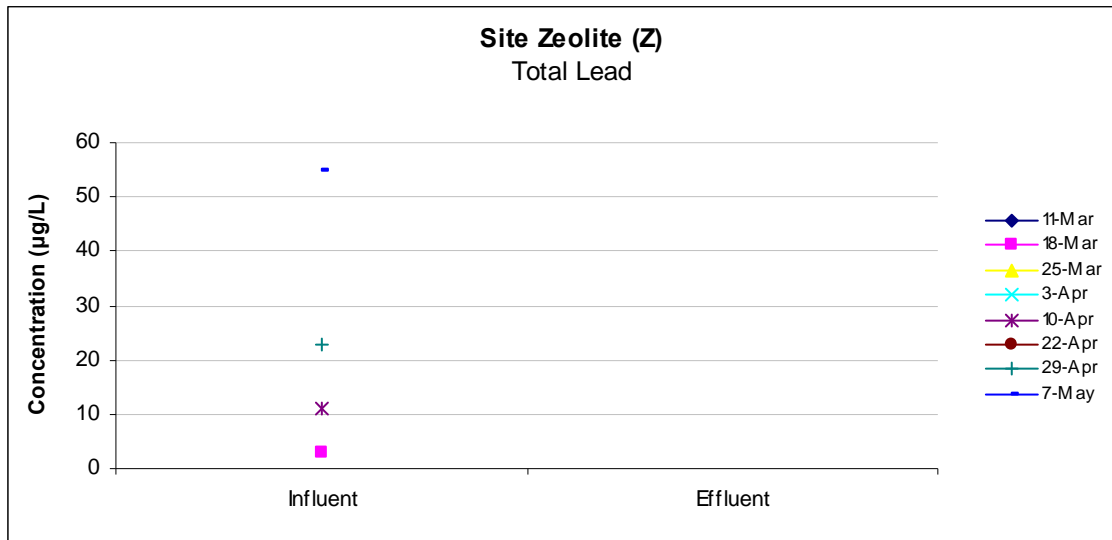
Total Ni



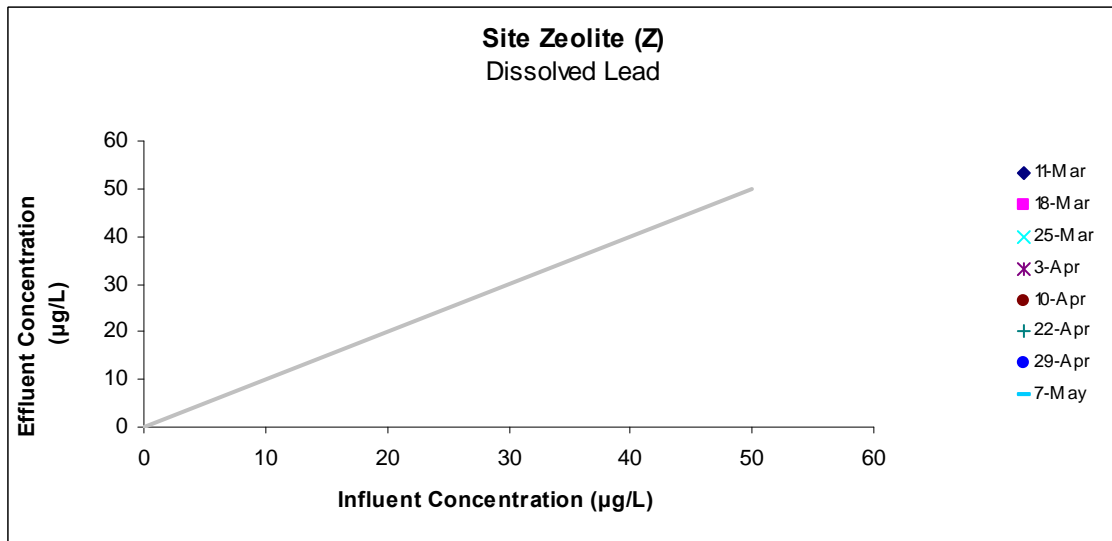
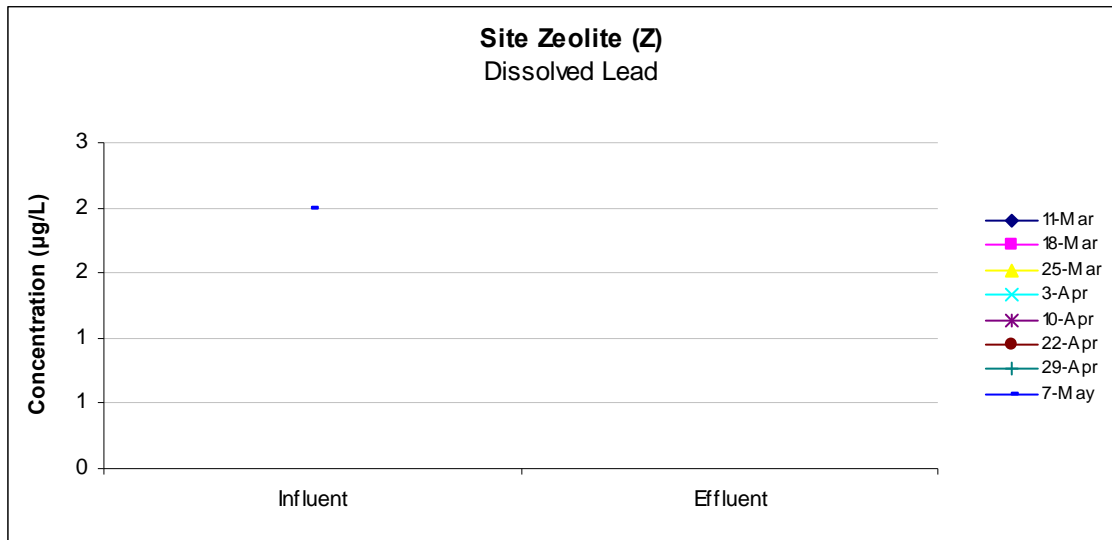
Dissolved Ni



Total Pb



Dissolved Pb



# Total Zn

MWH Zeolite

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.131
R Square	0.017
Adjusted R Square	-0.147
Standard Error	15.586
Observations	8.000

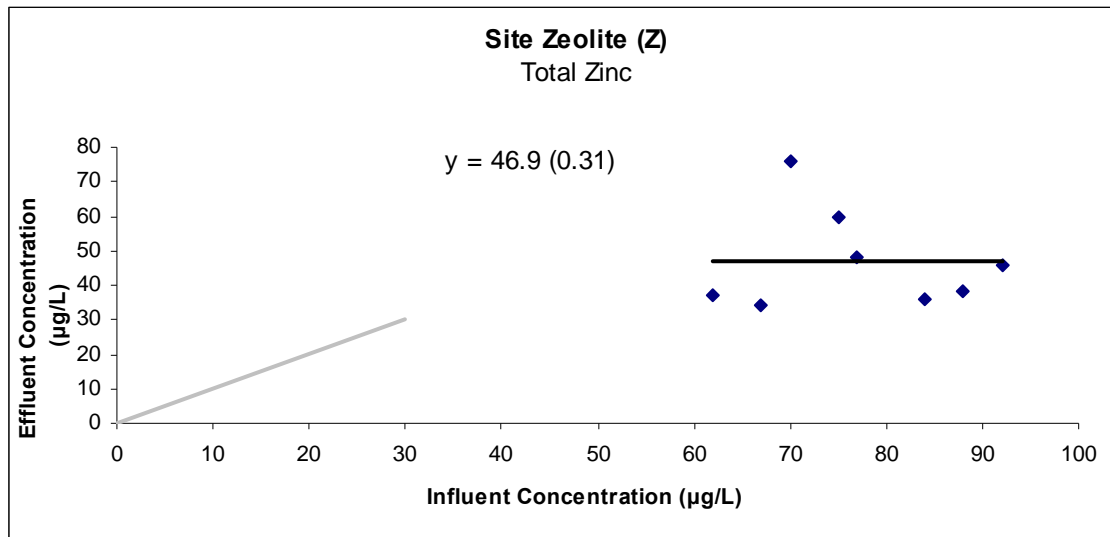
## ANOVA

	df	SS	MS	F	Significance F
Regression	1.000	25.405	25.405	0.105	0.757
Residual	6.000	1457.470	242.912		
Total	7.000	1482.875			

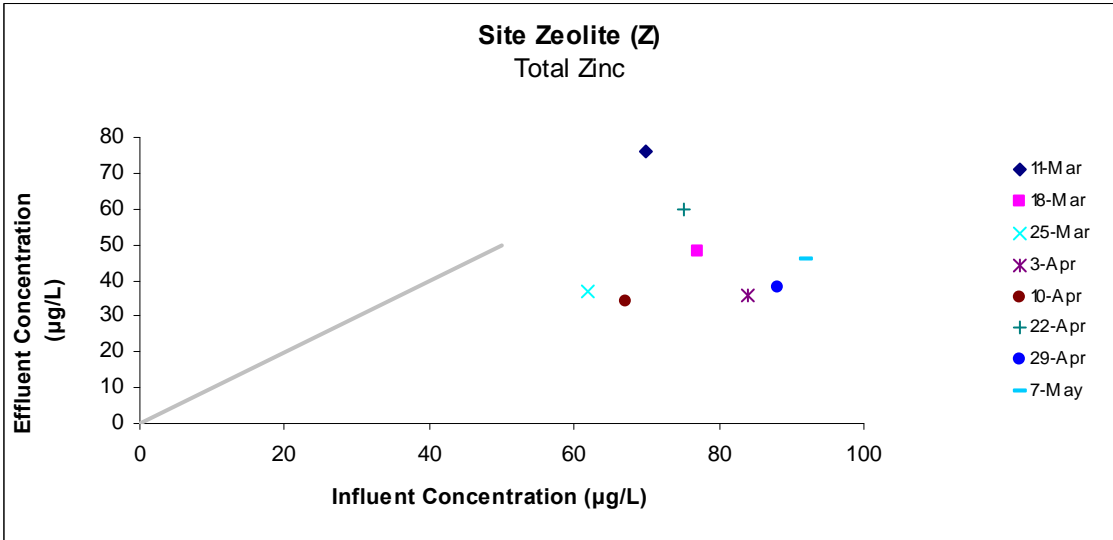
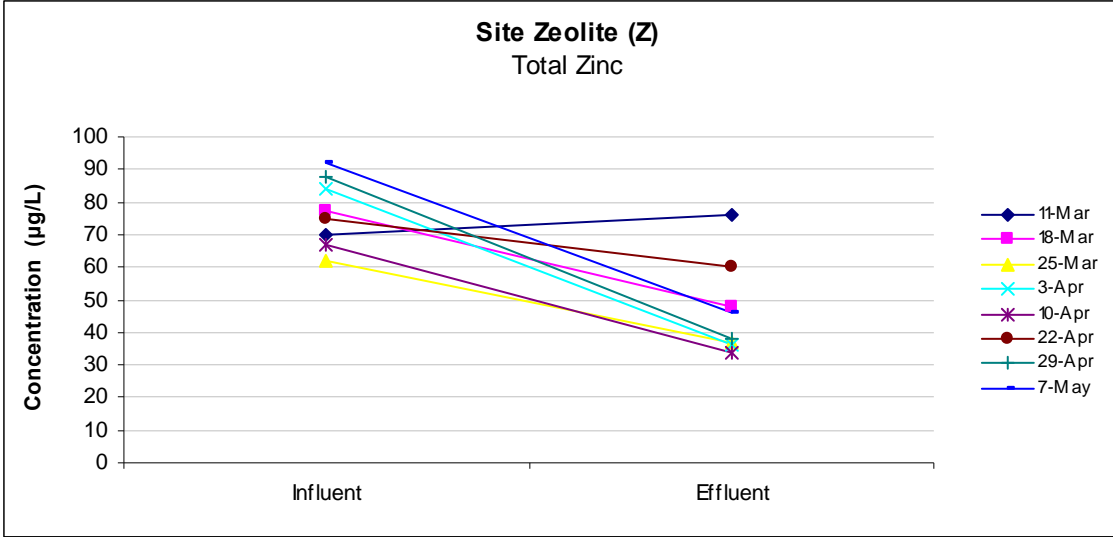
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	60.813	43.449	1.400	0.211	-45.502	167.128	-45.502	167.128
X Variable 1	-0.181	0.561	-0.323	0.757	-1.553	1.190	-1.553	1.190

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	48.121	27.879
2	48.852	1.148
3	49.572	-12.572
4	45.583	-9.583
5	48.865	-14.865
6	47.215	12.785
7	44.858	-6.858
8	44.133	1.867







# Dissolved Zn

MWH Zeolite

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.092
R Square	0.009
Adjusted R Square	-0.157
Standard Error	20.964
Observations	8.000

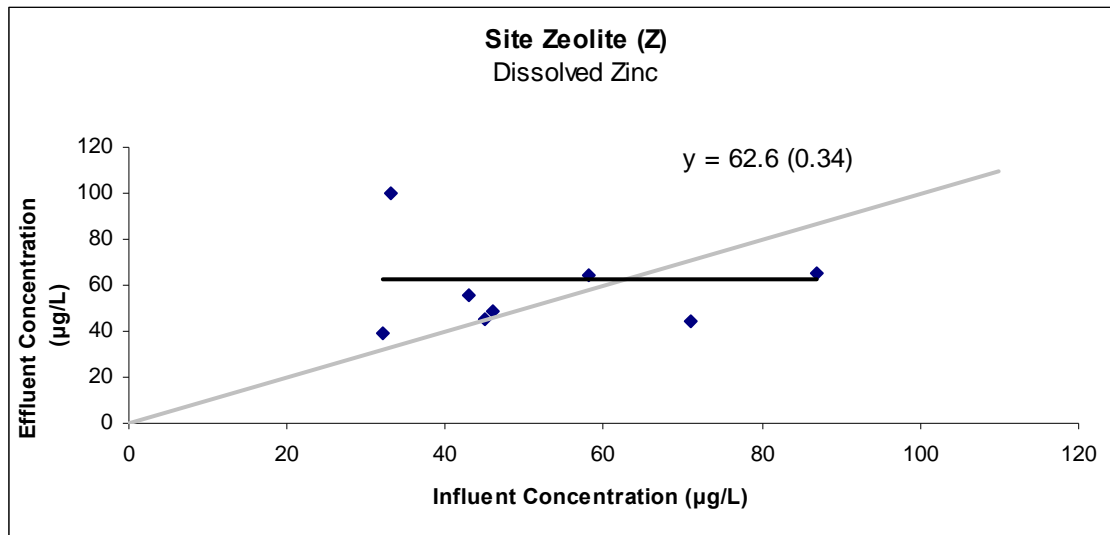
## ANOVA

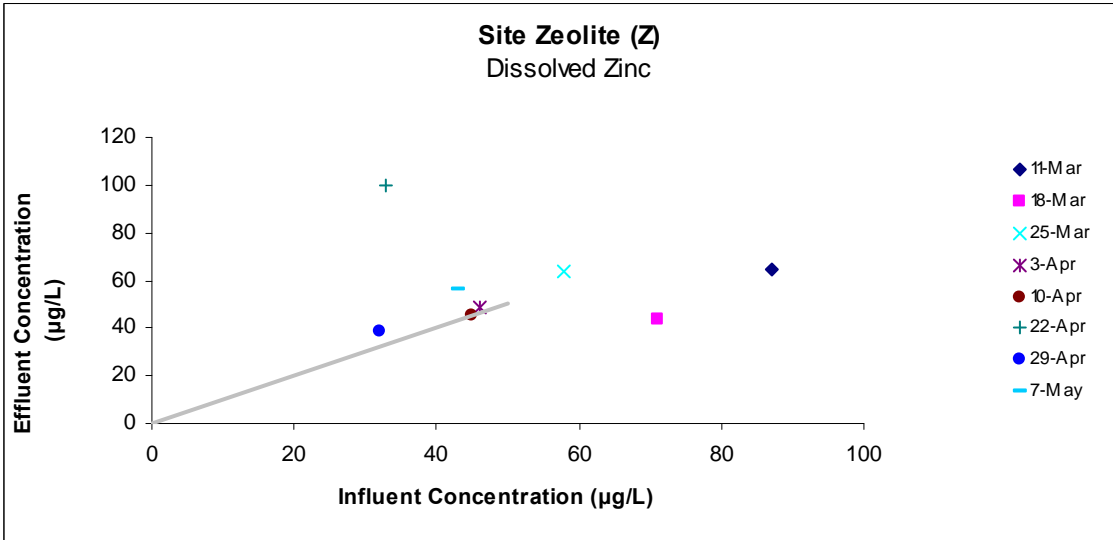
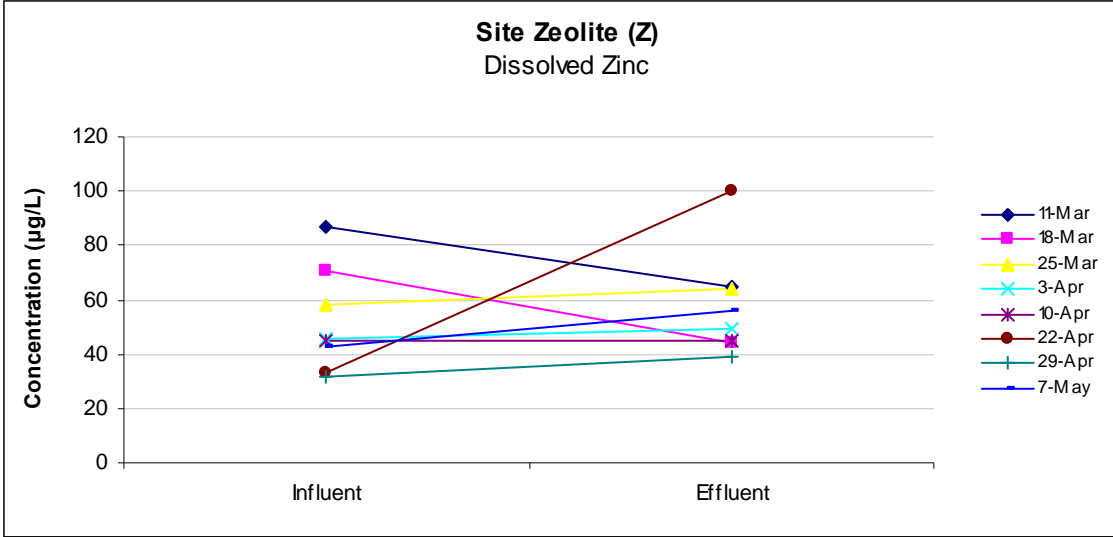
	df	SS	MS	F	Significance F
Regression	1.000	22.645	22.645	0.052	0.828
Residual	6.000	2636.855	439.476		
Total	7.000	2659.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	62.640	22.780	2.750	0.033	6.899	118.380	6.899	118.380
X Variable 1	-0.094	0.415	-0.227	0.828	-1.110	0.922	-1.110	0.922

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	54.439	10.561
2	55.947	-11.947
3	57.173	6.827
4	58.304	-9.304
5	58.398	-13.398
6	58.529	40.471
7	58.623	-20.623
8	58.587	-2.587





# Total K

MWH Zeolite

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.271
R Square	0.074
Adjusted R Square	-0.081
Standard Error	864.337
Observations	8.000

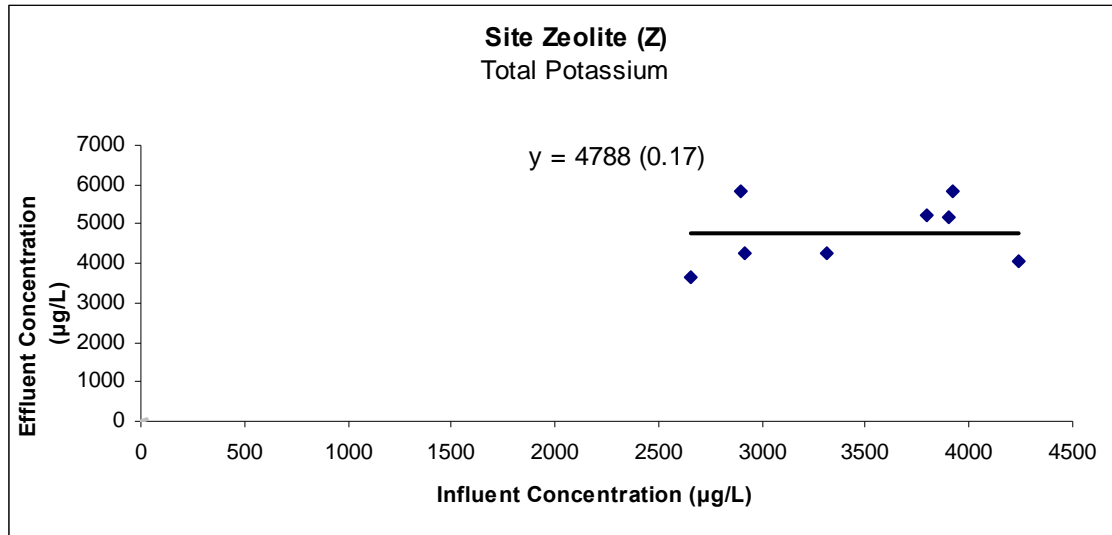
## ANOVA

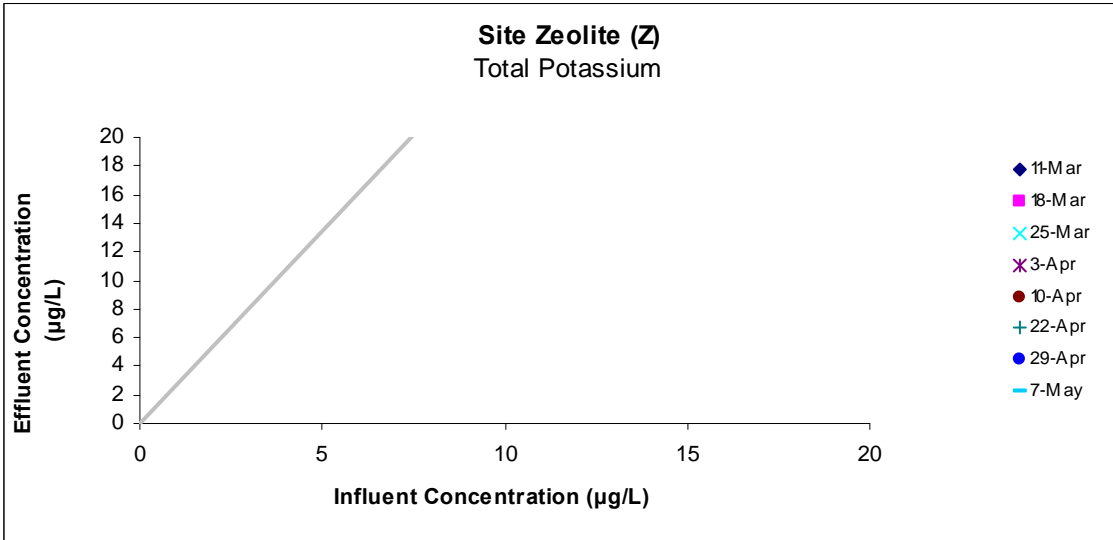
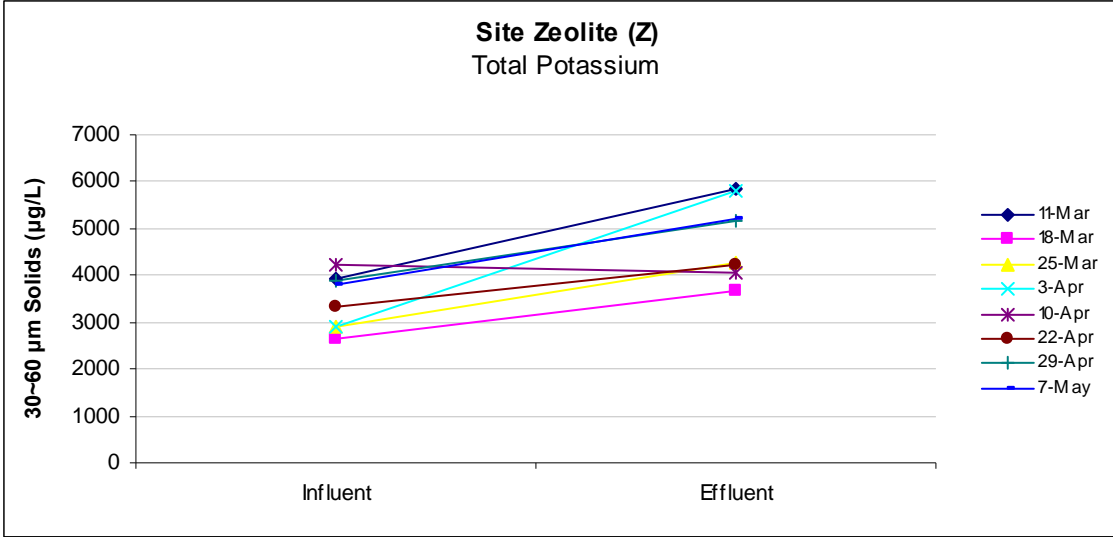
	df	SS	MS	F	Significance F
Regression	1.000	355966.459	355966.459	0.476	0.516
Residual	6.000	4482471.416	747078.569		
Total	7.000	4838437.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	3459.086	1949.838	1.774	0.126	-1311.995	8230.166	-1311.995	8230.166
X Variable 1	0.385	0.558	0.690	0.516	-0.980	1.749	-0.980	1.749

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	4967.496	860.504
2	4479.447	-817.447
3	4581.445	-305.445
4	4575.671	1250.329
5	5090.663	-1016.663
6	4734.634	-493.634
7	4859.414	219.586
8	4918.230	302.770





# Dissolved K

MWH Zeolite

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.170
R Square	0.029
Adjusted R Square	-0.133
Standard Error	1072.963
Observations	8.000

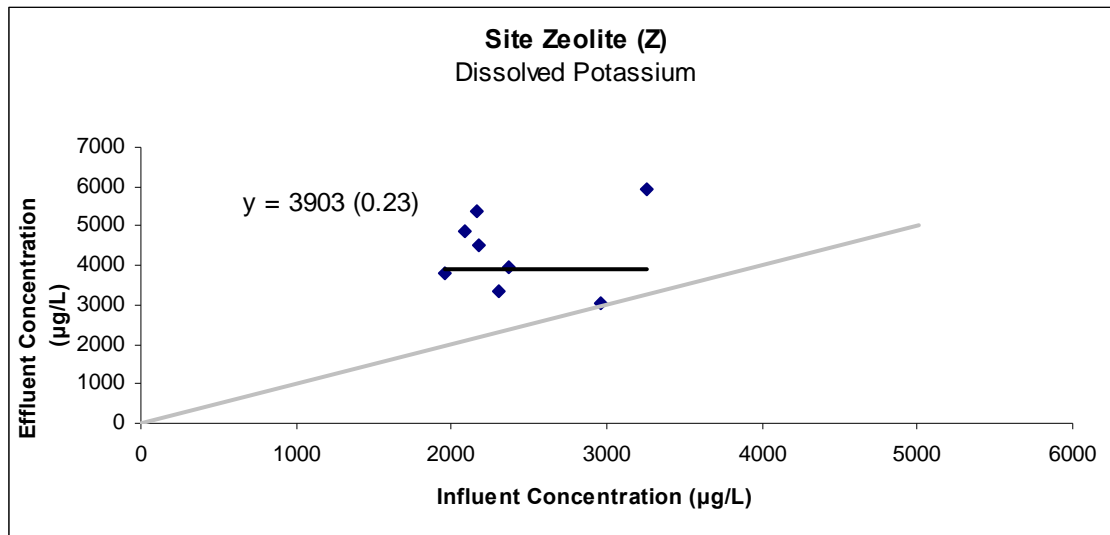
## ANOVA

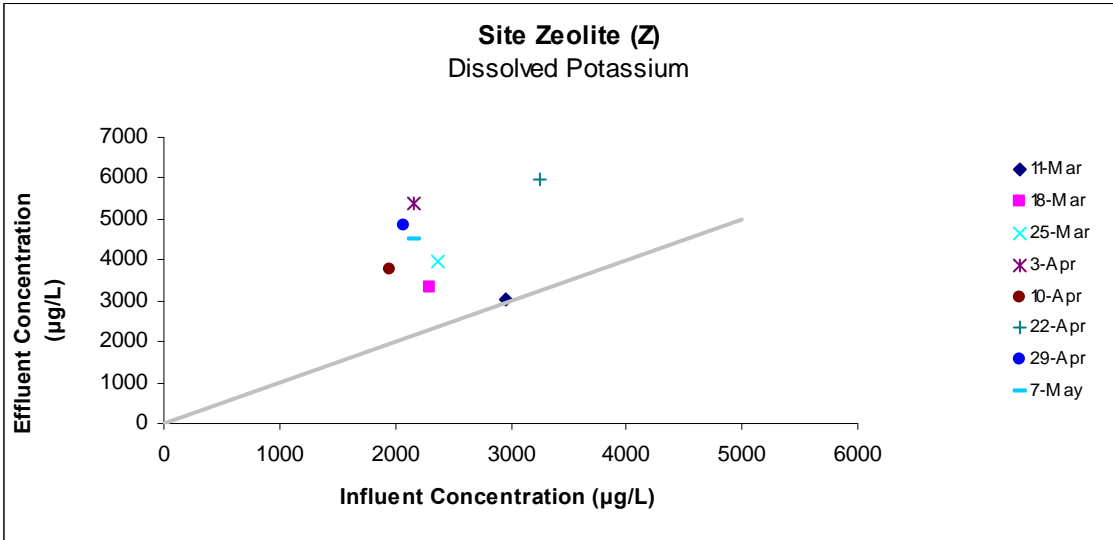
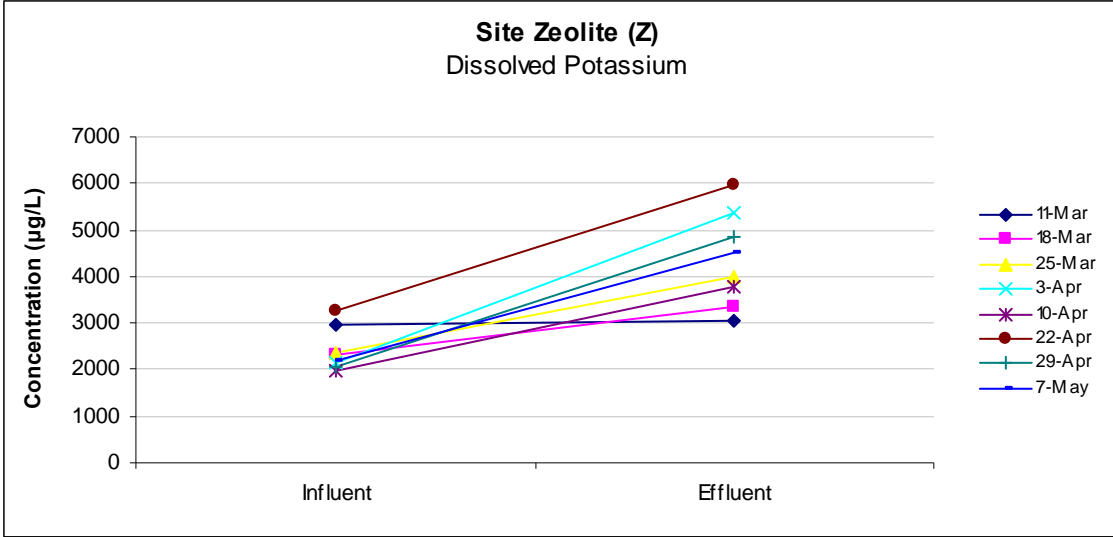
	df	SS	MS	F	Significance F
Regression	1.000	204664.679	204664.679	0.178	0.688
Residual	6.000	6907501.196	1151250.199		
Total	7.000	7112165.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	3451.372	2175.592	1.586	0.164	-1872.109	8774.853	-1872.109	8774.853
X Variable 1	0.375	0.890	0.422	0.688	-1.803	2.553	-1.803	2.553

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	4560.701	-1528.701
2	4318.018	-966.018
3	4340.036	-367.036
4	4262.728	1118.272
5	4186.922	-406.922
6	4672.534	1276.466
7	4232.330	632.670
8	4265.730	240.270





# Total Na

MWH Zeolite

## SUMMARY OUTPUT

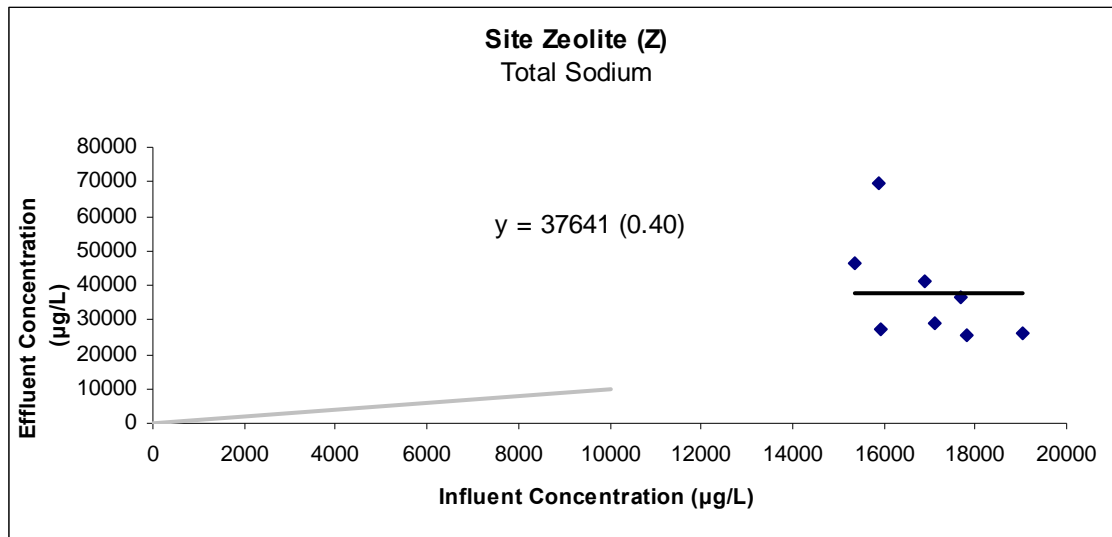
Regression Statistics	
Multiple R	0.585
R Square	0.342
Adjusted R Square	0.233
Standard Error	13117.145
Observations	8.000

ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	537229492.988	537229492.988	3.122	0.128
Residual	6.000	1032357035.012	172059505.835		
Total	7.000	1569586528.000			

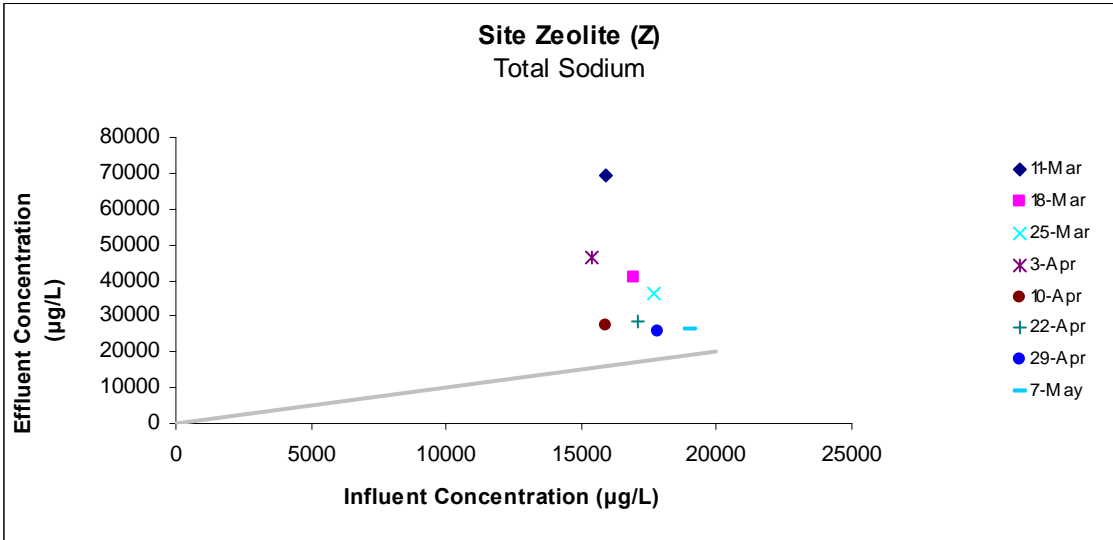
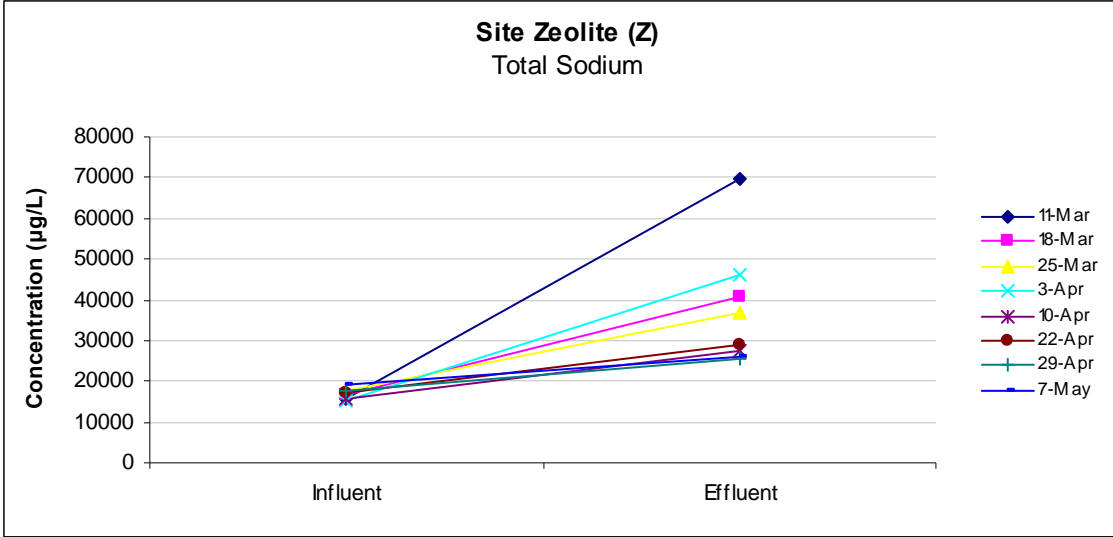
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	159629.545	69192.045	2.307	0.061	-9677.290	328936.380	-9677.290	328936.380
X Variable 1	-7.189	4.068	-1.767	0.128	-17.143	2.766	-17.143	2.766

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	45494.648	24080.352
2	38075.916	2811.084
3	32504.678	4084.322
4	49175.260	-2888.260
5	45048.949	-17674.949
6	36587.856	-7637.856
7	31512.638	-5892.638
8	22728.054	3317.946







# Dissolved Na

MWH Zeolite

## SUMMARY OUTPUT

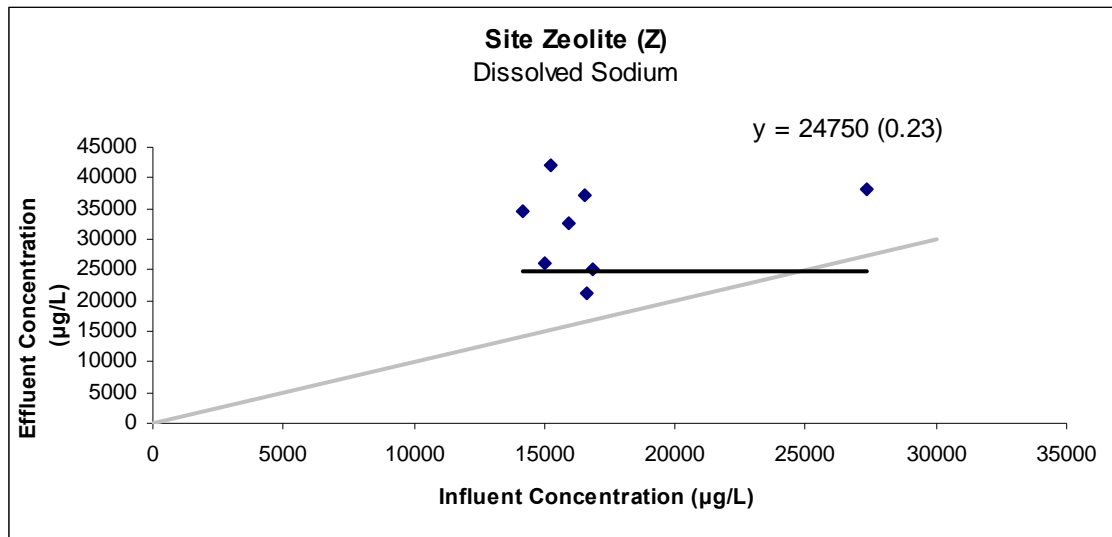
Regression Statistics	
Multiple R	0.245
R Square	0.060
Adjusted R Square	-0.097
Standard Error	7671.277
Observations	8.000

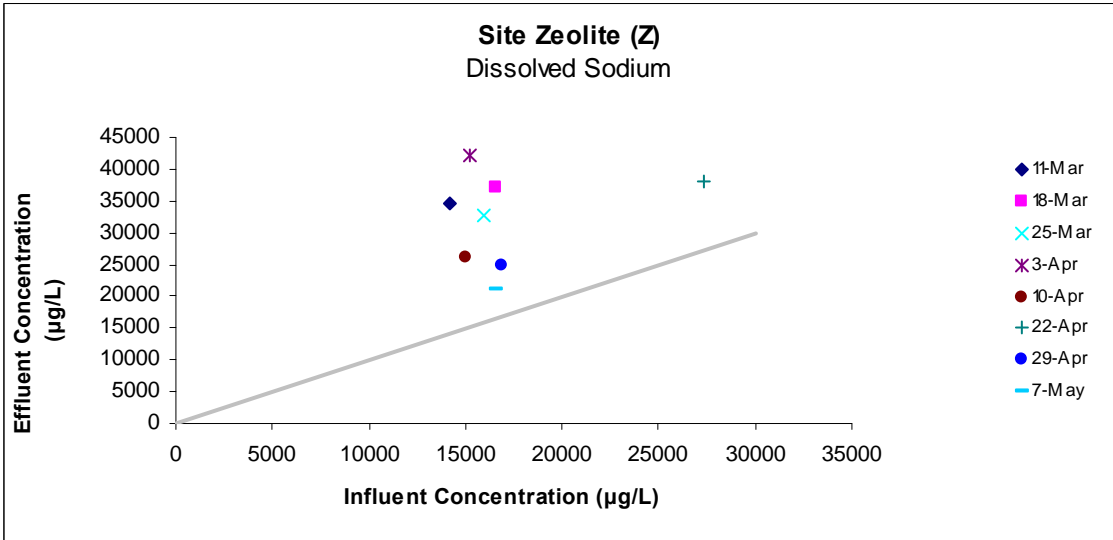
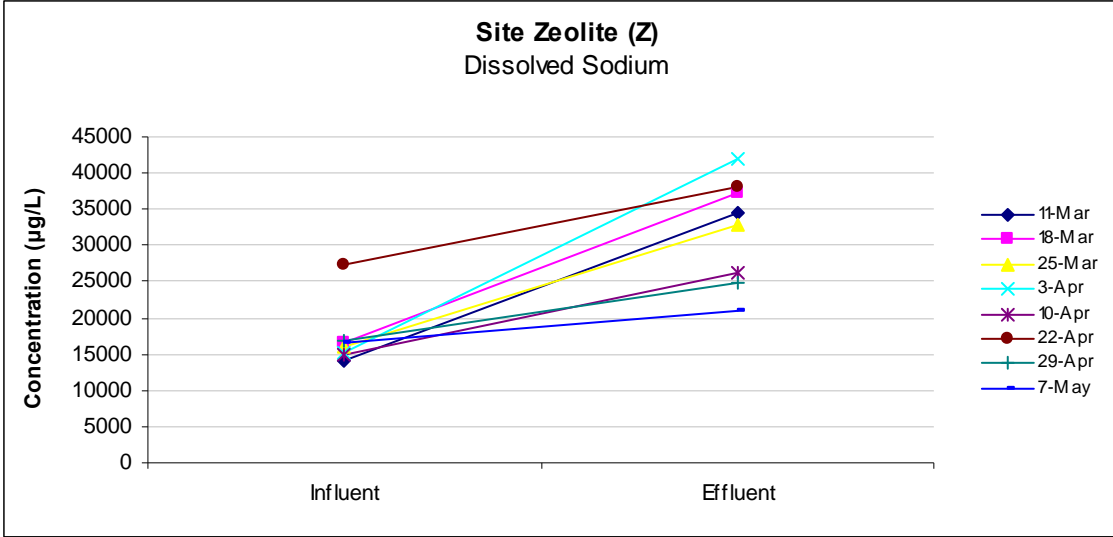
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	22552550.134	22552550.134	0.383	0.559
Residual	6.000	353090911.366	58848485.228		
Total	7.000	375643461.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	24749.842	12218.769	2.026	0.089	-5148.409	54648.094	-5148.409	54648.094
X Variable 1	0.428	0.692	0.619	0.559	-1.265	2.122	-1.265	2.122

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	30821.993	3654.007
2	31833.233	5455.767
3	31586.422	1133.578
4	31291.620	10777.380
5	31178.498	-4930.498
6	36460.512	1699.498
7	31960.495	-7010.495
8	31869.226	-10779.226





# Total Cr

MWH Zeolite

## SUMMARY OUTPUT

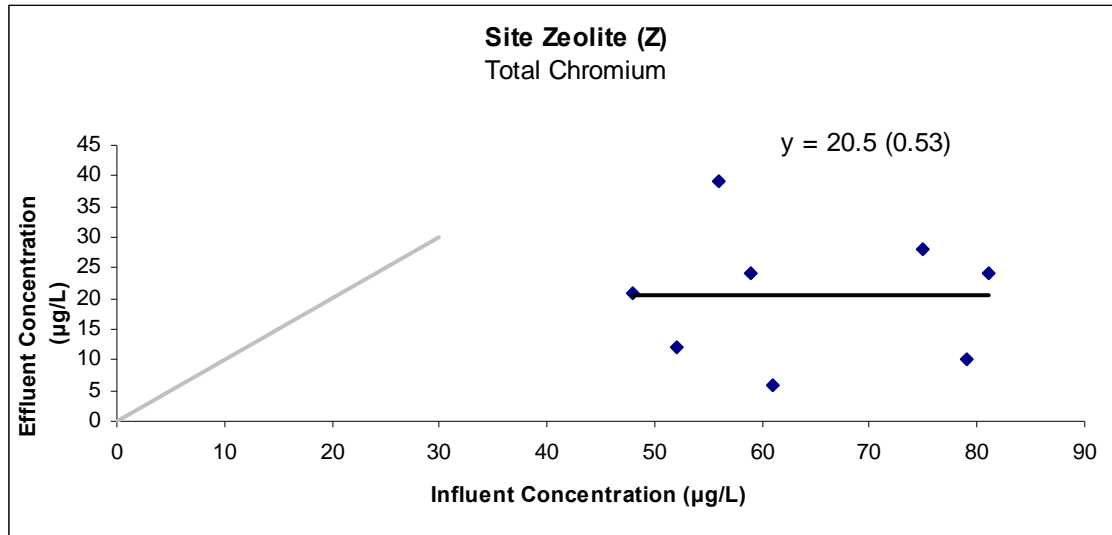
Regression Statistics	
Multiple R	0.045
R Square	0.002
Adjusted R Square	-0.164
Standard Error	11.650
Observations	8.000

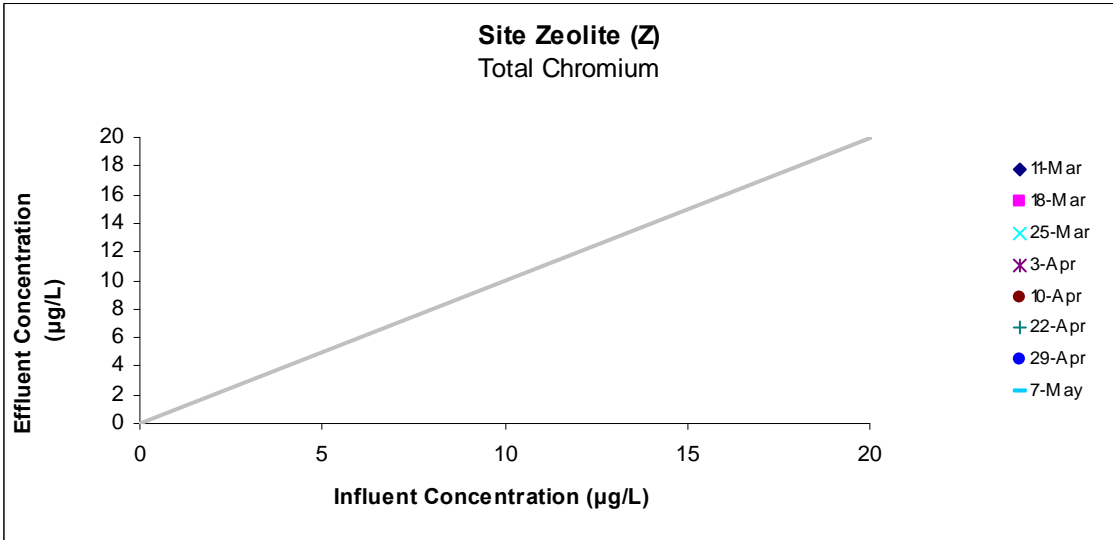
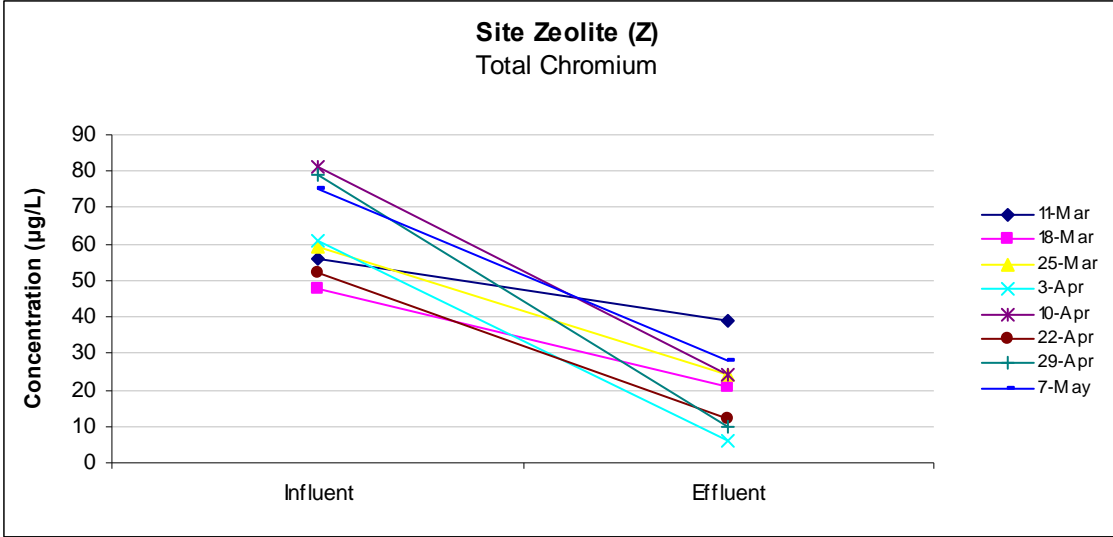
ANOVA						
	df	SS	MS	F	Significance F	
Regression	1.000	1.670	1.670	0.012	0.915	
Residual	6.000	814.330	135.722			
Total	7.000	816.000				

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	22.953	22.489	1.021	0.347	-32.076	77.982	-32.076	77.982
X Variable 1	-0.038	0.346	-0.111	0.915	-0.885	0.809	-0.885	0.809

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	20.802	18.198
2	21.110	-0.110
3	20.687	3.313
4	20.610	-14.610
5	19.842	4.158
6	20.956	-9.956
7	19.919	-9.919
8	20.073	7.927





# Dissolved Cr

MWH Zeolite

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.980
R Square	0.961
Adjusted R Square	0.794
Standard Error	2.833
Observations	7.000

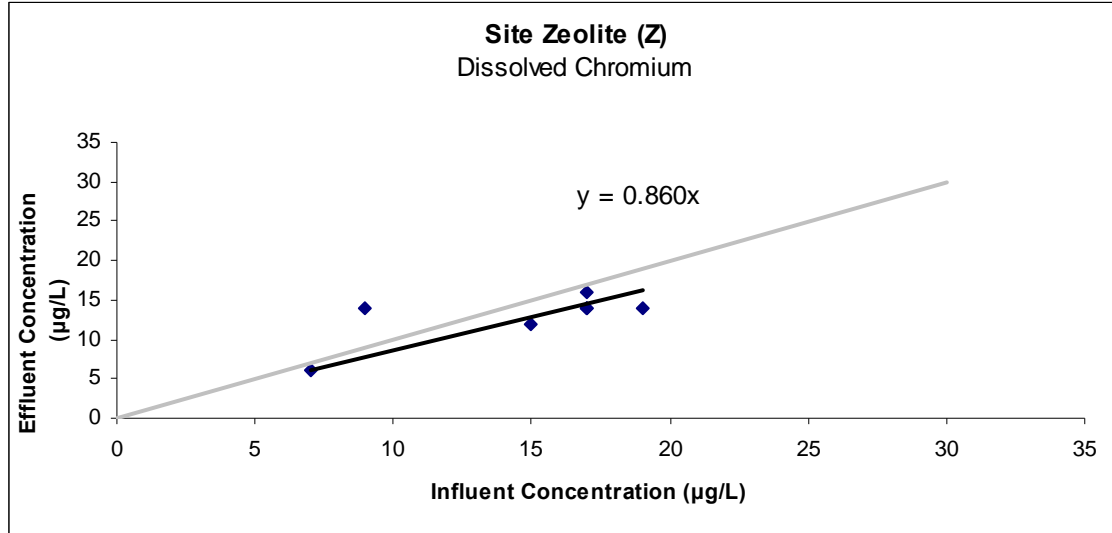
## ANOVA

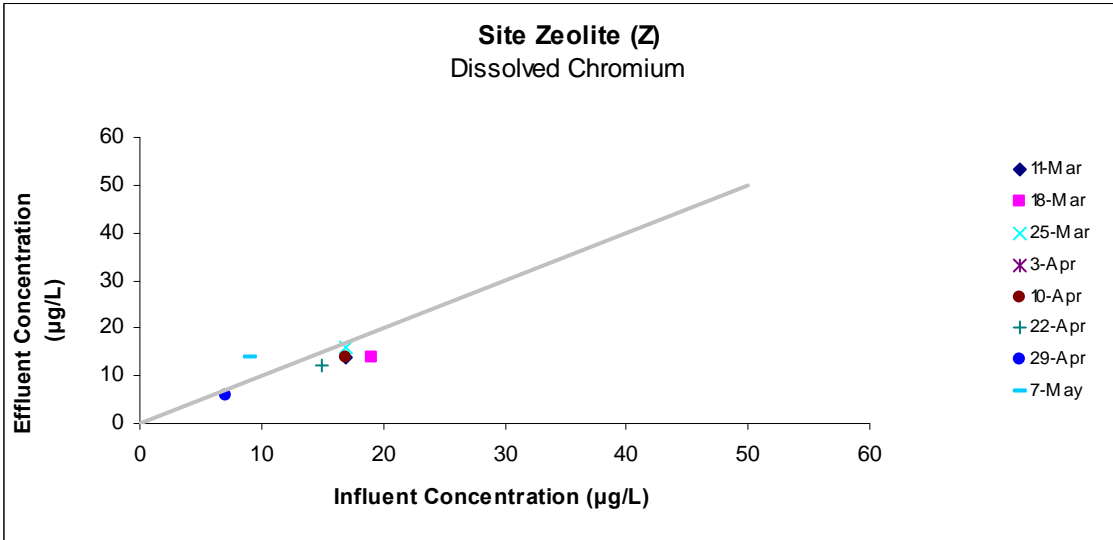
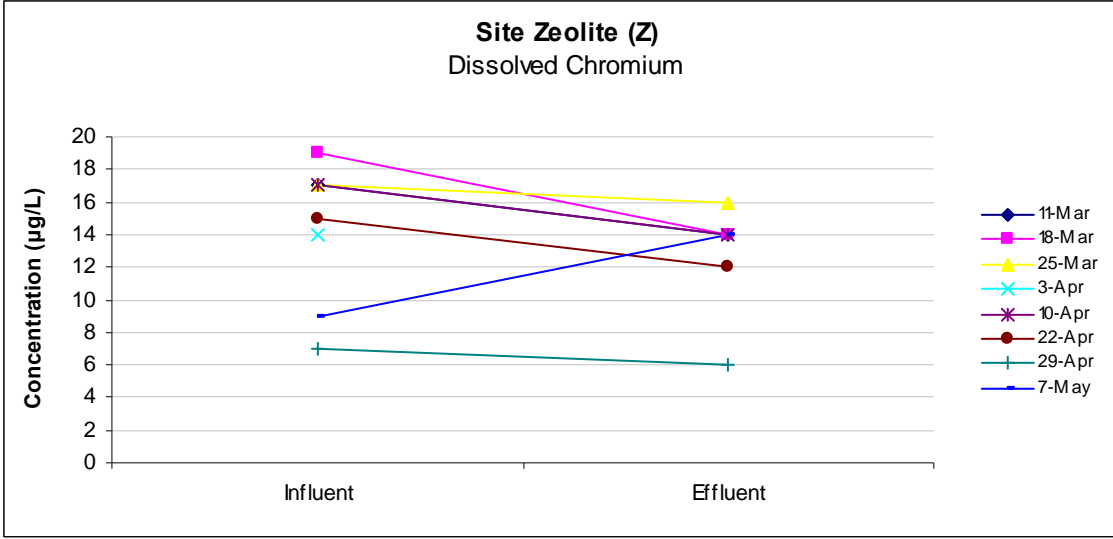
	df	SS	MS	F	Significance F
Regression	1.000	1171.853	1171.853	146.036	0.000
Residual	6.000	48.147	8.024		
Total	7.000	1220.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	0.860	0.071	12.085	0.000	0.686	1.035	0.686	1.035

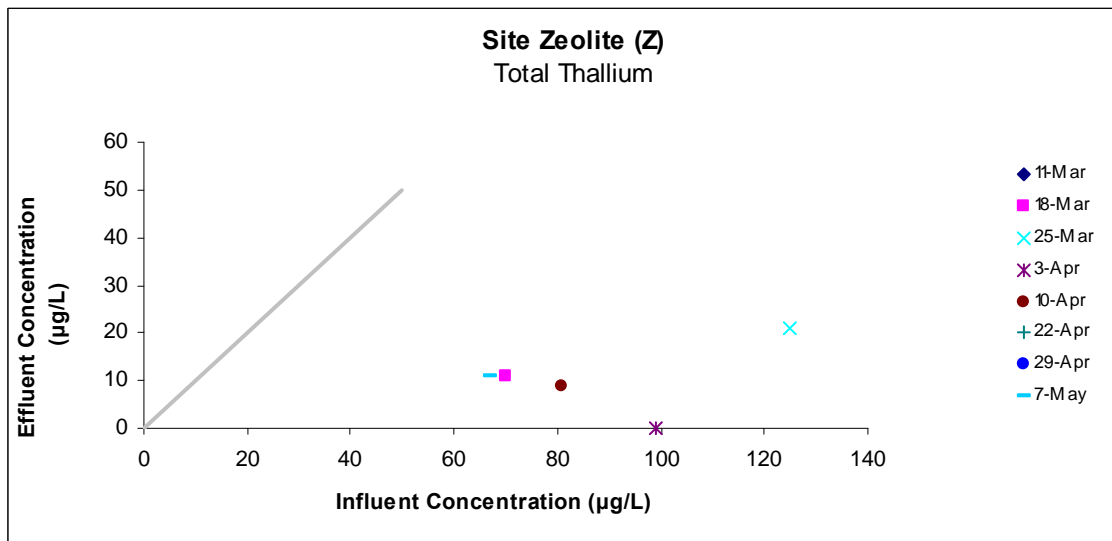
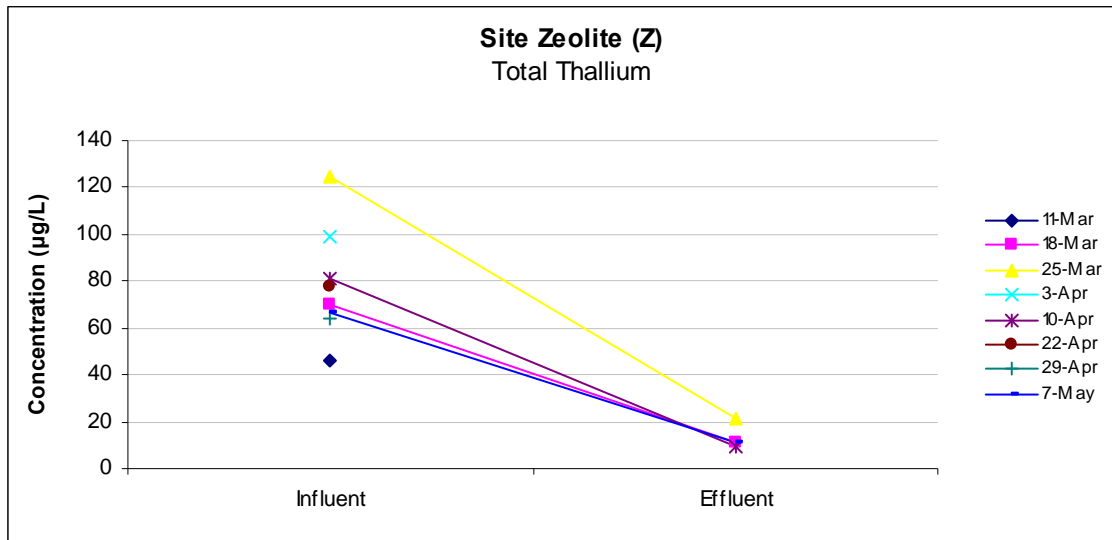
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	14.627	-0.627
2	16.347	-2.347
3	14.627	1.373
4	14.627	-0.627
5	12.906	-0.906
6	6.023	-0.023
7	7.744	6.256



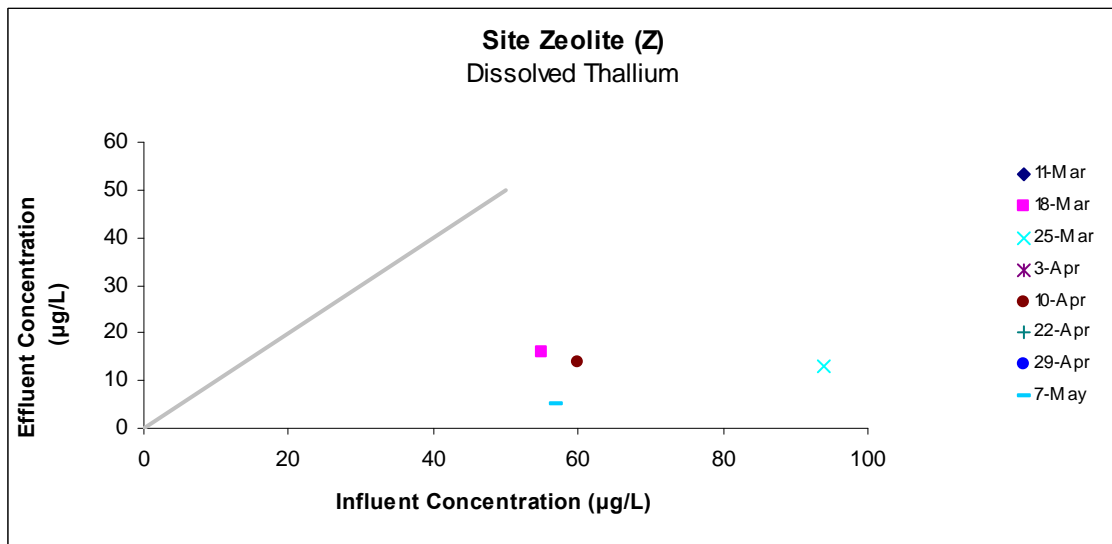
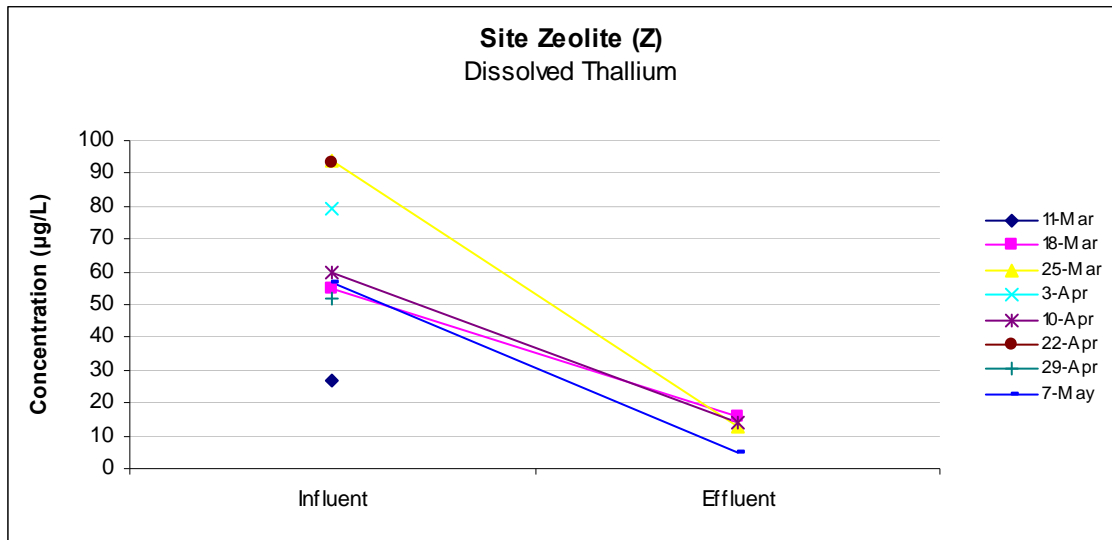


Total Tl





Dissolved Tl



# Total Sb

MWH Zeolite

## SUMMARY OUTPUT

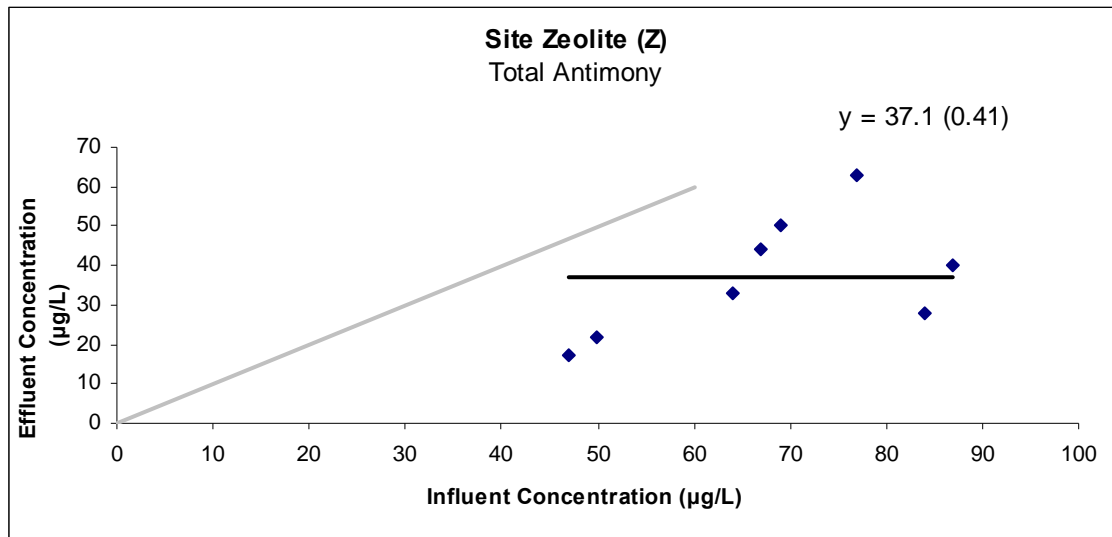
Regression Statistics	
Multiple R	0.554
R Square	0.307
Adjusted R Square	0.191
Standard Error	13.704
Observations	8.000

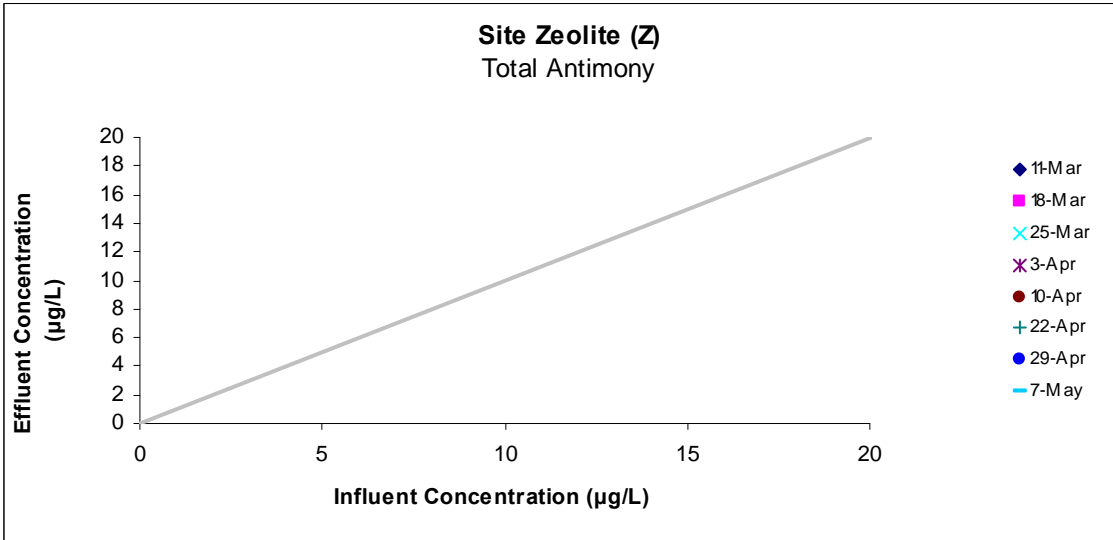
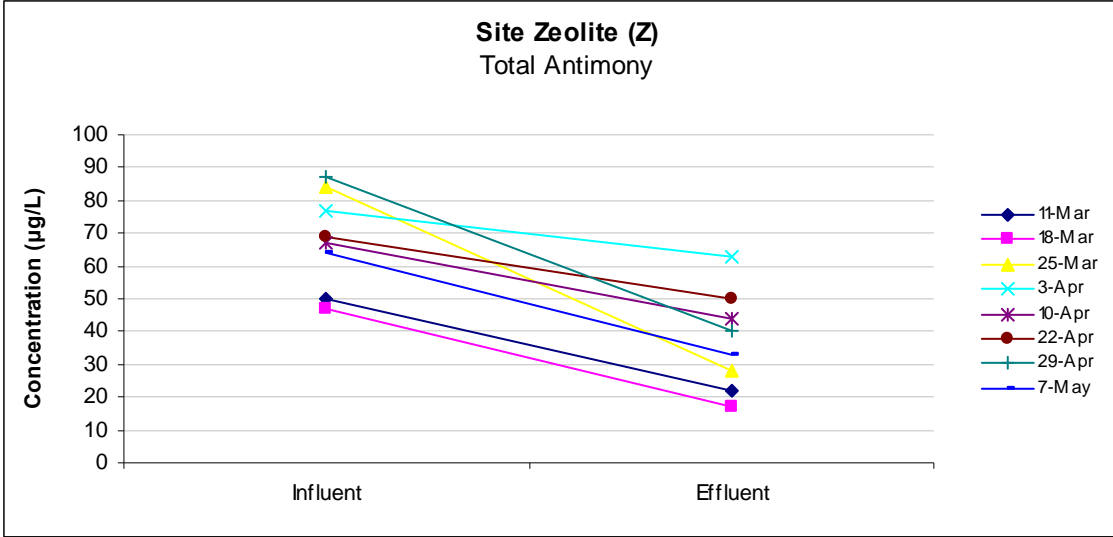
ANOVA						
	df	SS	MS	F	Significance F	
Regression	1.000	498.129	498.129	2.653	0.155	
Residual	6.000	1126.746	187.791			
Total	7.000	1624.875				

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-2.386	24.739	-0.096	0.926	-62.920	58.148	-62.920	58.148
X Variable 1	0.580	0.356	1.629	0.155	-0.291	1.451	-0.291	1.451

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	26.613	-4.613
2	24.873	-7.873
3	46.332	-18.332
4	42.272	20.728
5	36.473	7.527
6	37.632	12.368
7	48.072	-8.072
8	34.733	-1.733





# Dissolved Sb

MWH Zeolite

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.956
R Square	0.915
Adjusted R Square	0.748
Standard Error	14.501
Observations	7.000

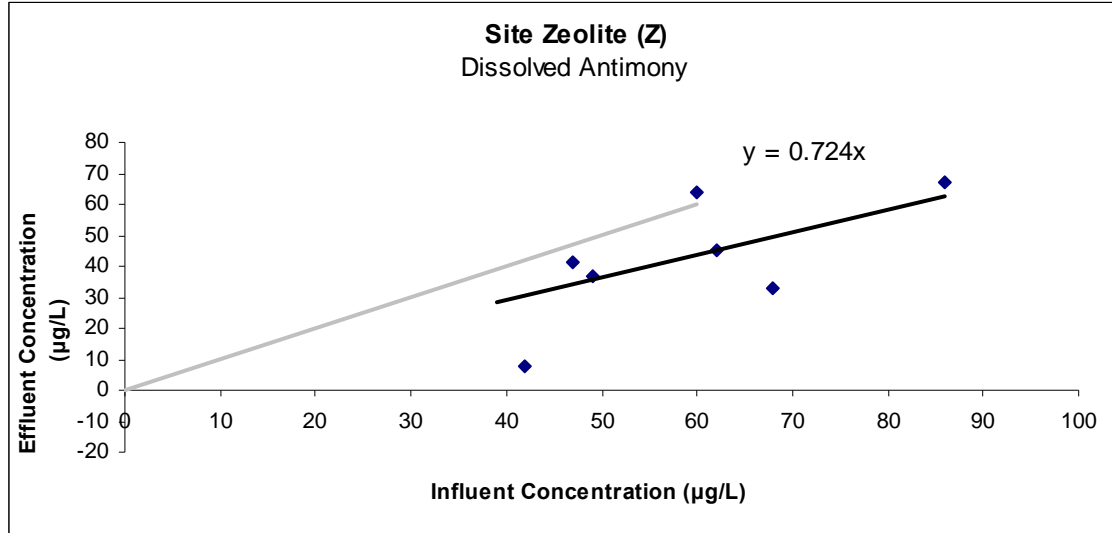
## ANOVA

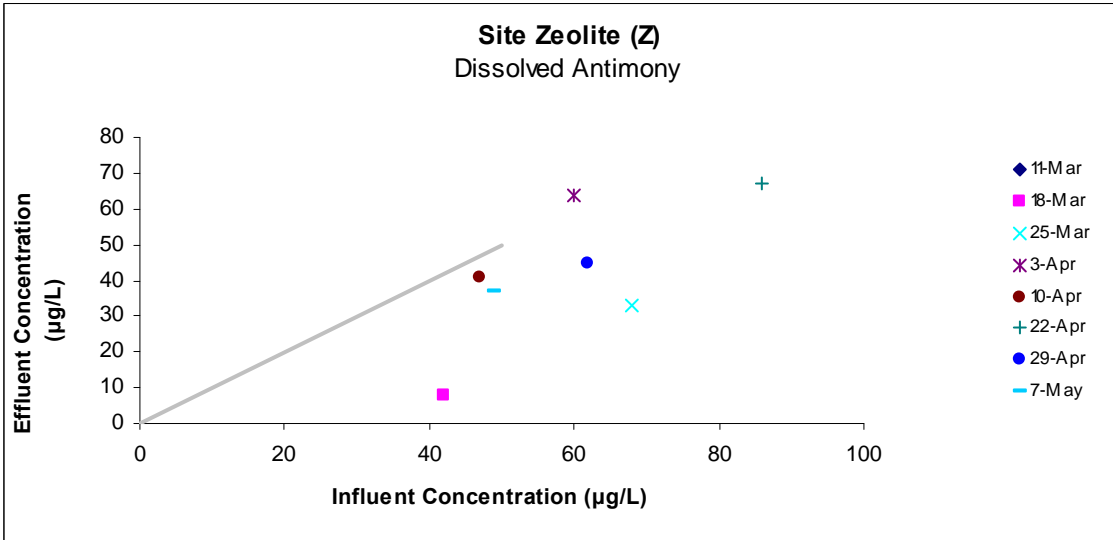
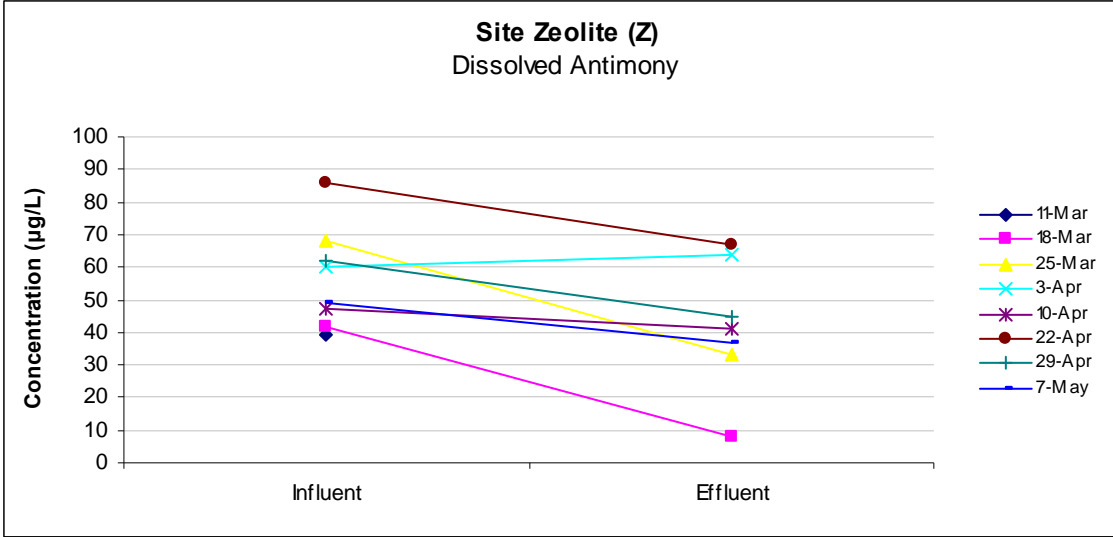
	df	SS	MS	F	Significance F
Regression	1.000	13551.318	13551.318	64.444	0.000
Residual	6.000	1261.682	210.280		
Total	7.000	14813.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	0.724	0.090	8.028	0.000	0.503	0.945	0.503	0.945

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	30.417	-22.417
2	49.246	-16.246
3	43.452	20.548
4	34.038	6.962
5	62.282	4.718
6	44.901	0.099
7	35.486	1.514





# SMZ

## Total As

SMZ

### SUMMARY OUTPUT

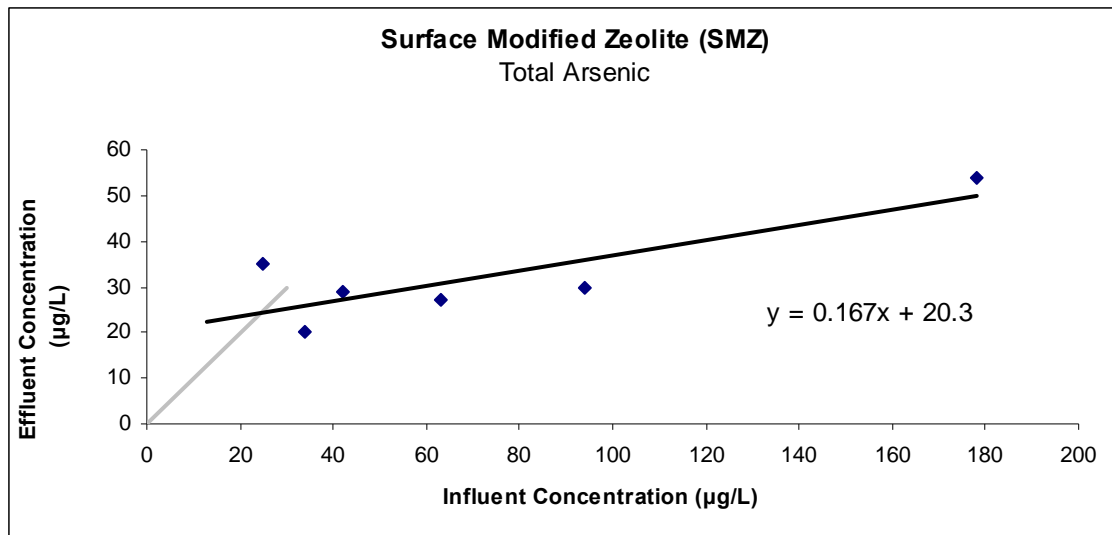
Regression Statistics	
Multiple R	0.824
R Square	0.680
Adjusted R Square	0.600
Standard Error	7.343
Observations	6.000

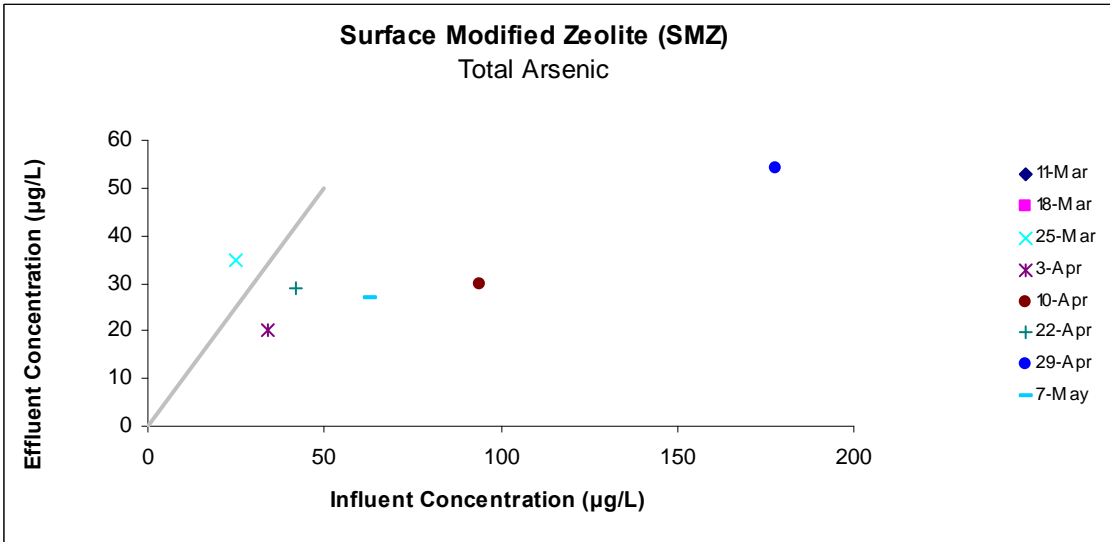
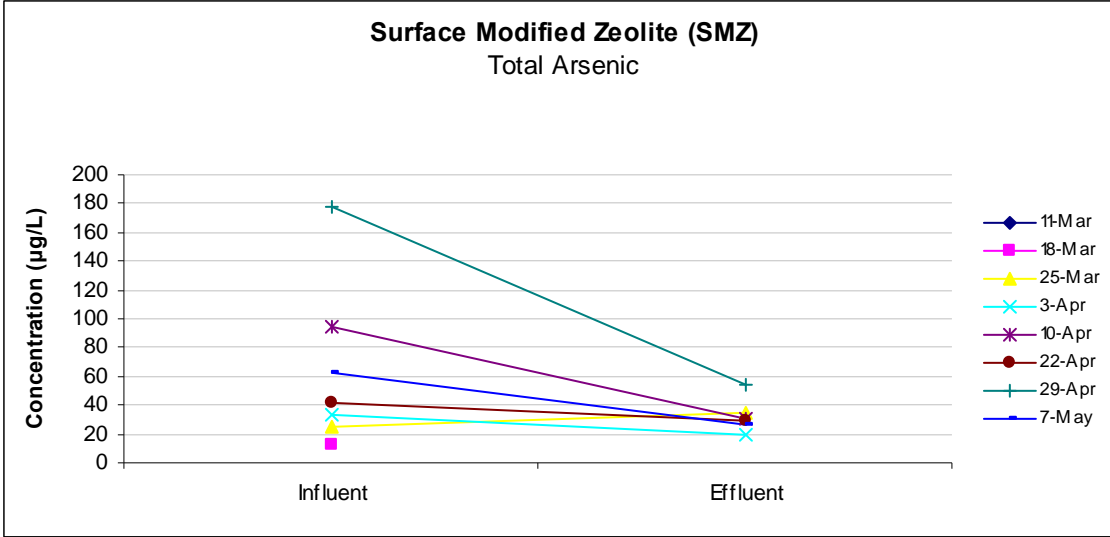
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	457.803	457.803	8.490	0.044
Residual	4.000	215.697	53.924		
Total	5.000	673.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.341	5.138	3.959	0.017	6.075	34.607	6.075	34.607
X Variable 1	0.167	0.057	2.914	0.044	0.008	0.327	0.008	0.327

### RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	24.524	10.476
2	26.030	-6.030
3	36.070	-6.070
4	27.369	1.631
5	50.125	3.875
6	30.883	-3.883





# Dissolved As

SMZ

## SUMMARY OUTPUT

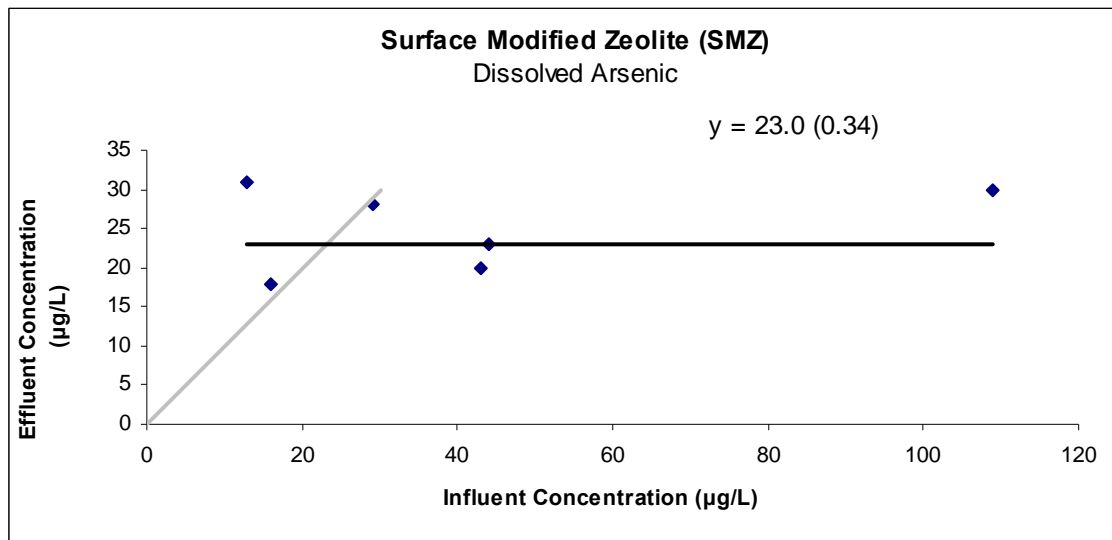
Regression Statistics	
Multiple R	0.308
R Square	0.095
Adjusted R Square	-0.131
Standard Error	5.786
Observations	6.000

ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	14.083	14.083	0.421	0.552
Residual	4.000	133.917	33.479		
Total	5.000	148.000			

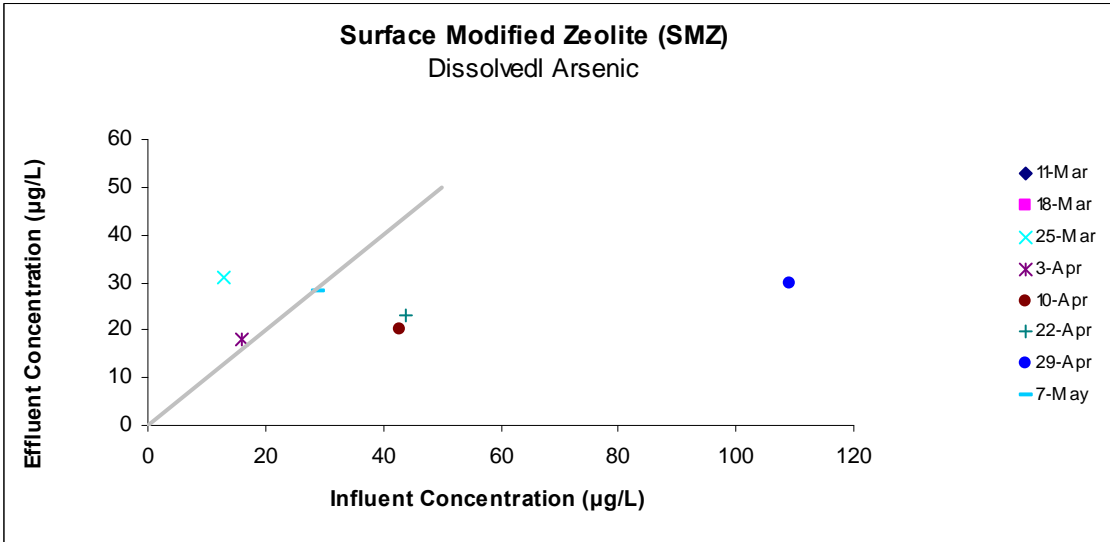
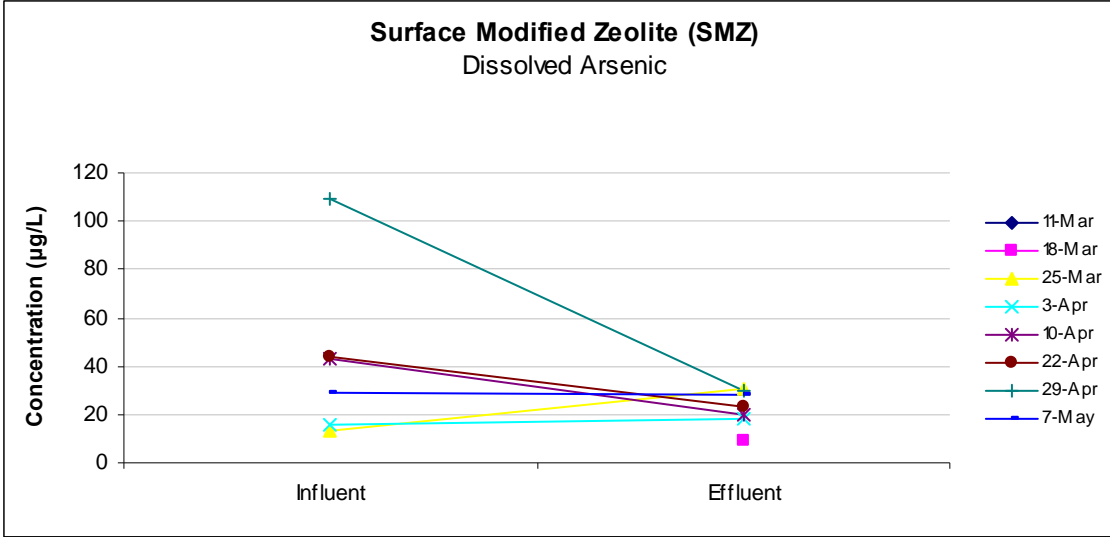
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	22.979	3.910	5.877	0.004	12.123	33.835	12.123	33.835
X Variable 1	0.048	0.074	0.649	0.552	-0.157	0.252	-0.157	0.252

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	23.600	7.400
2	23.743	-5.743
3	25.032	-5.032
4	25.080	-2.080
5	28.183	1.817
6	24.363	3.637







# Total Al

SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.504
R Square	0.254
Adjusted R Square	0.104
Standard Error	104.780
Observations	7.000

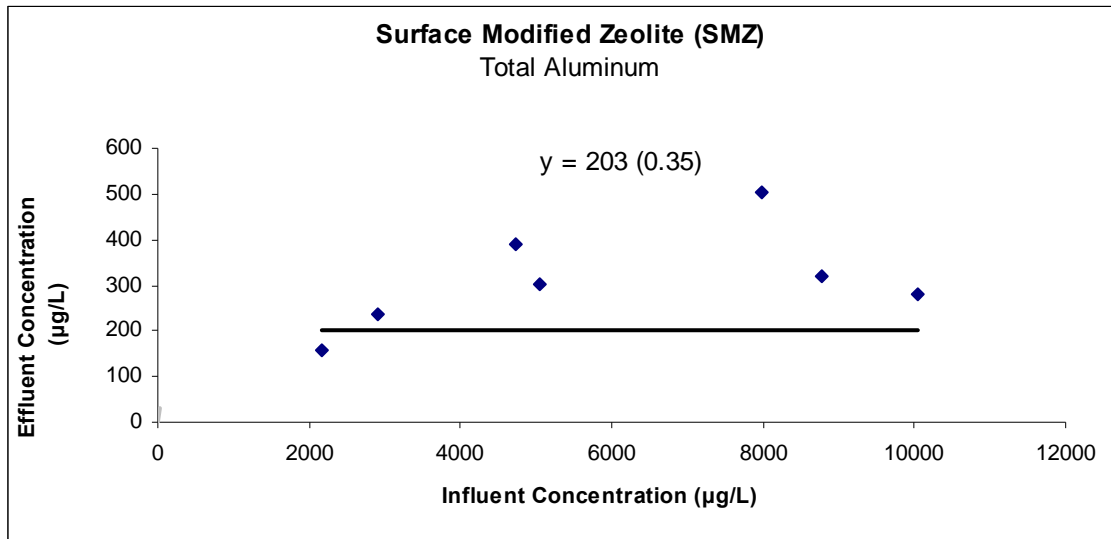
## ANOVA

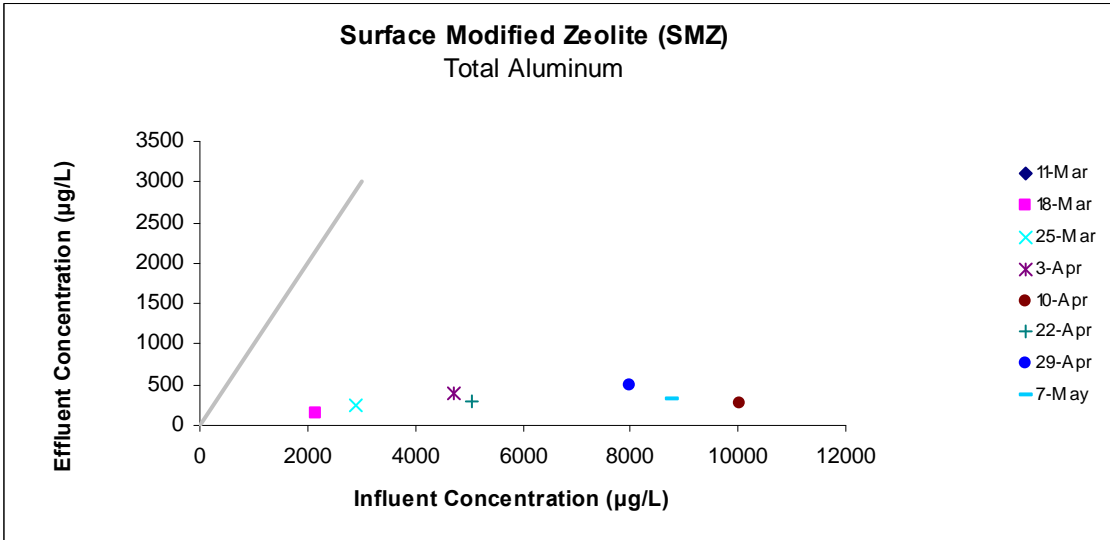
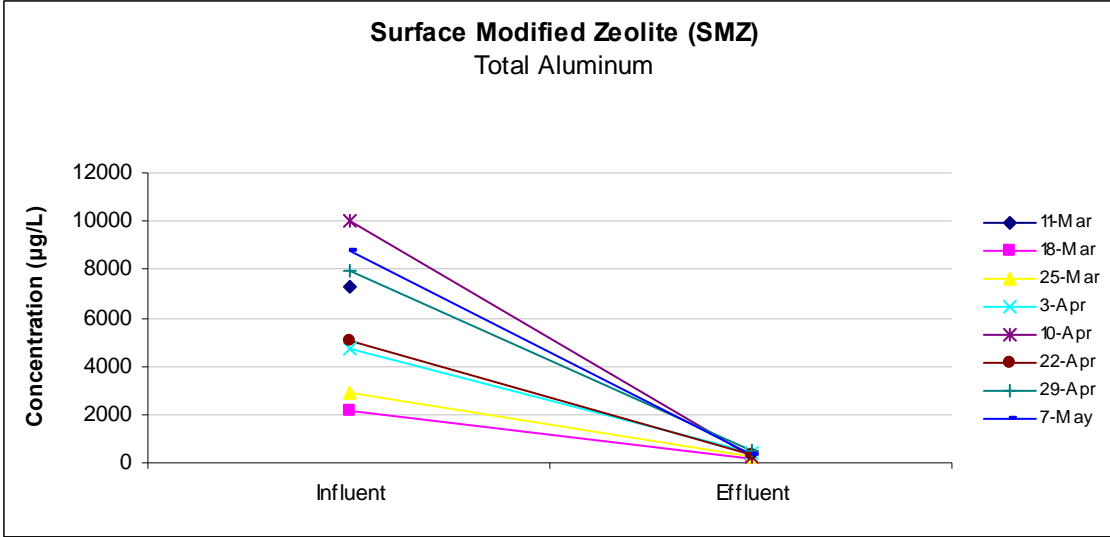
	df	SS	MS	F	Significance F
Regression	1.000	18654.987	18654.987	1.699	0.249
Residual	5.000	54893.871	10978.774		
Total	6.000	73548.857			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	203.377	93.054	2.186	0.081	-35.827	442.581	-35.827	442.581
X Variable 1	0.018	0.014	1.304	0.249	-0.018	0.055	-0.018	0.055

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	243.144	-86.144
2	257.058	-20.058
3	290.680	100.320
4	388.593	-108.593
5	296.493	6.507
6	350.672	152.328
7	365.360	-44.360





# Dissolved Al

SMZ

## SUMMARY OUTPUT

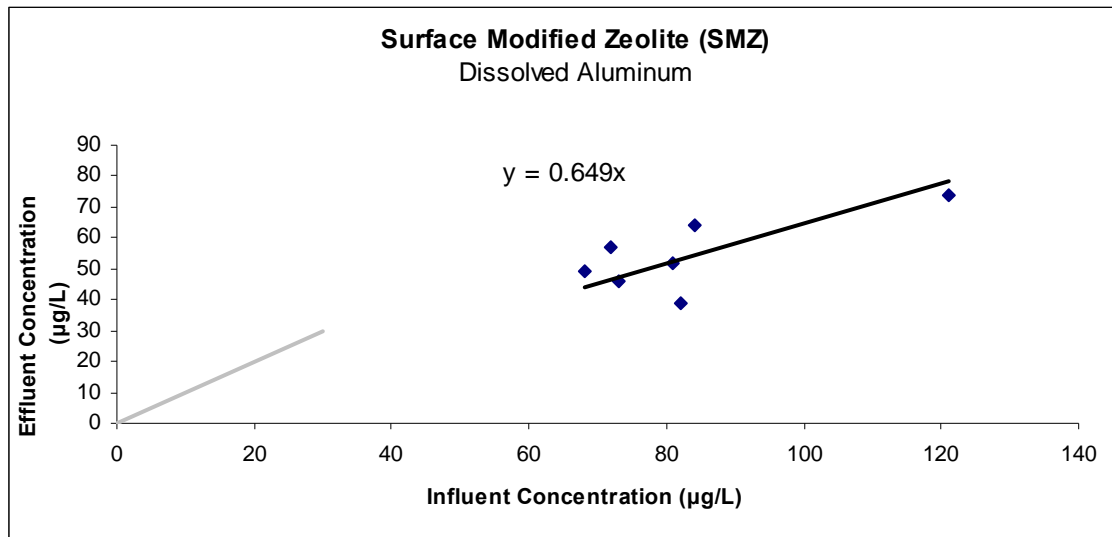
Regression Statistics	
Multiple R	0.990
R Square	0.979
Adjusted R Square	0.813
Standard Error	8.603
Observations	7.000

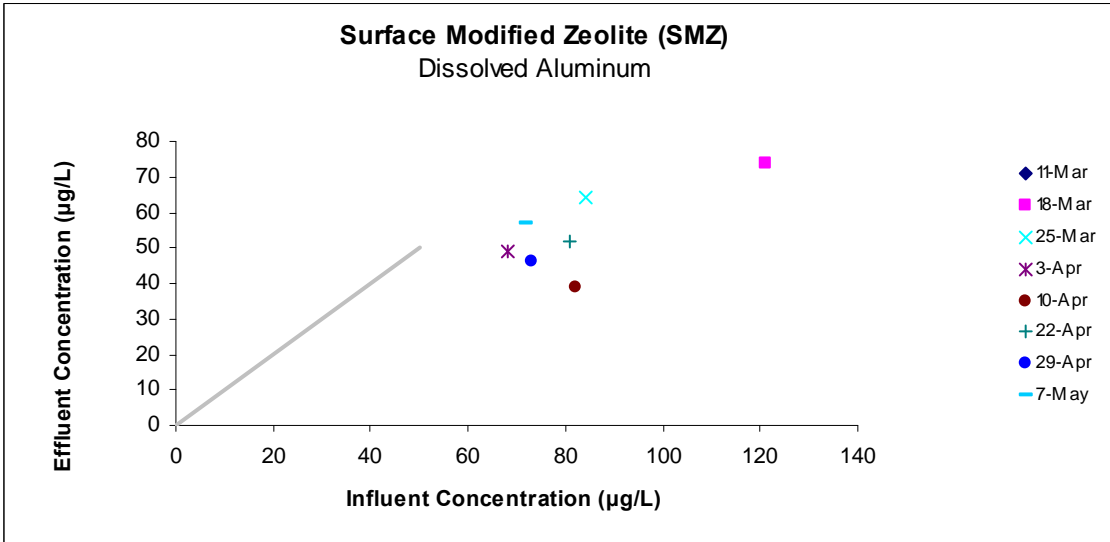
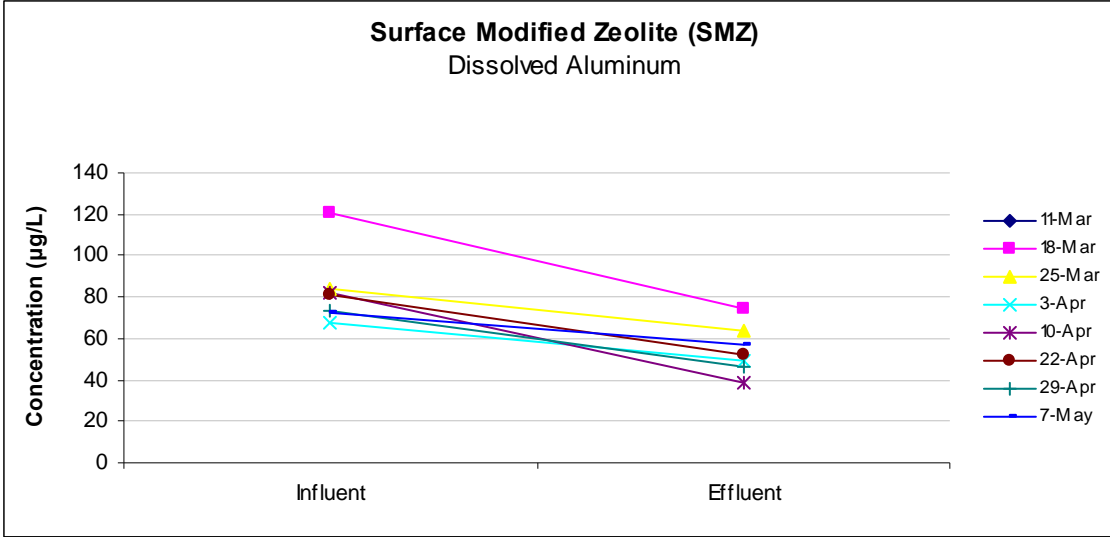
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	21118.960	21118.960	285.366	0.000
Residual	6.000	444.040	74.007		
Total	7.000	21563.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	0.649	0.038	16.893	0.000	0.555	0.743	0.555	0.743

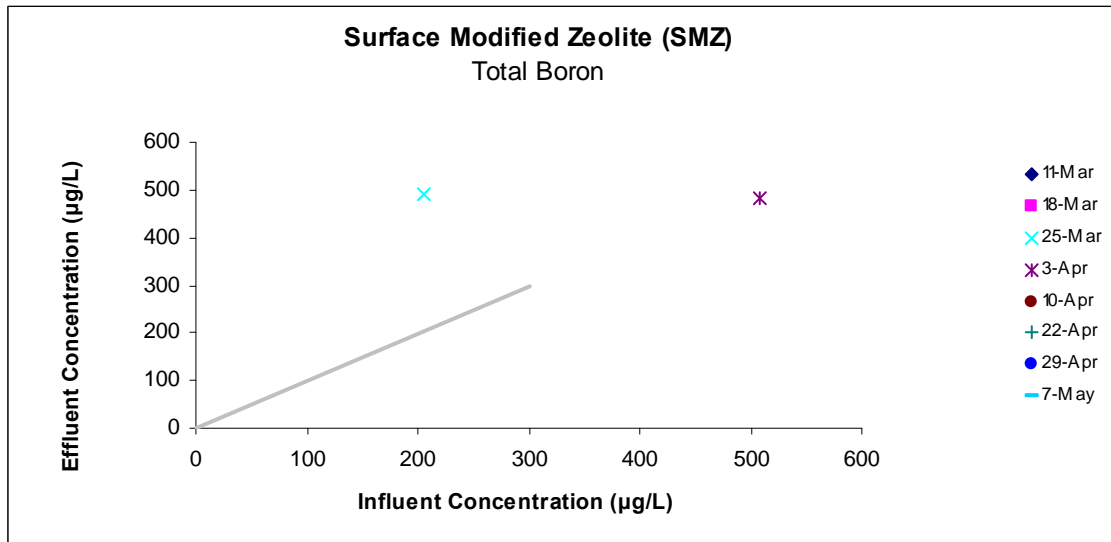
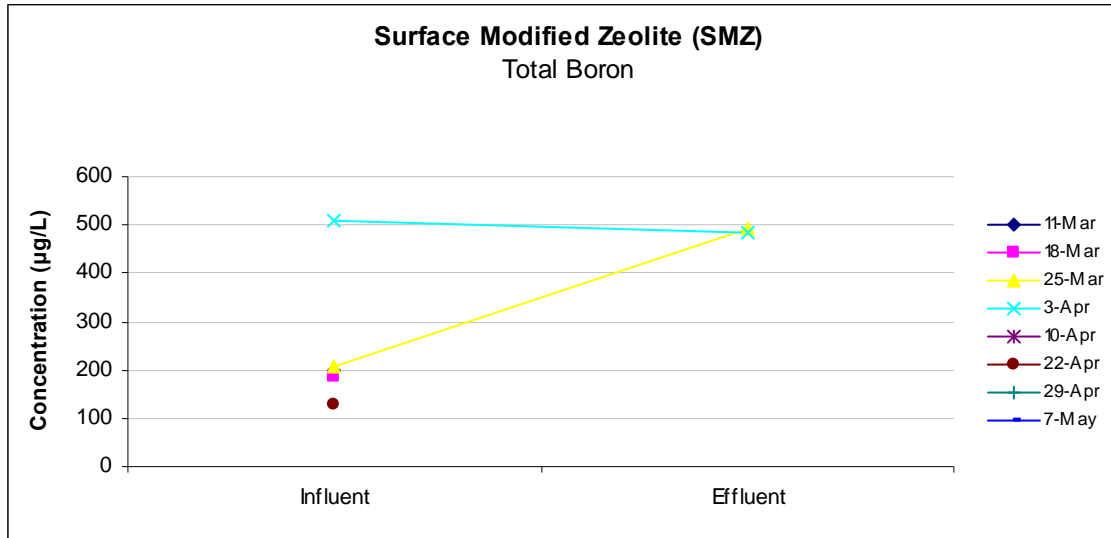
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	78.545	-4.545
2	54.527	9.473
3	44.141	4.859
4	53.229	-14.229
5	52.580	-0.580
6	47.387	-1.387
7	46.738	10.262

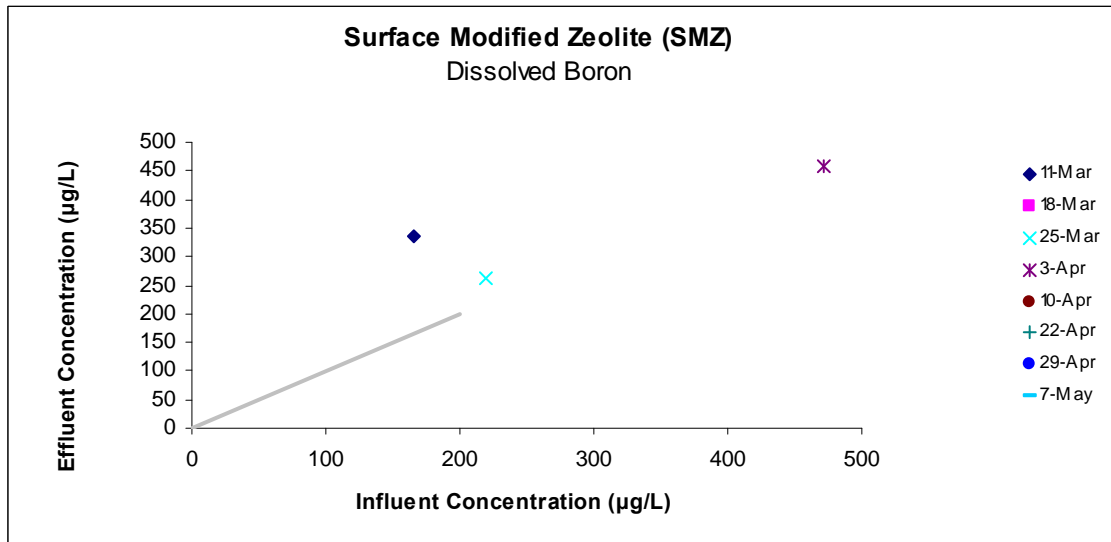
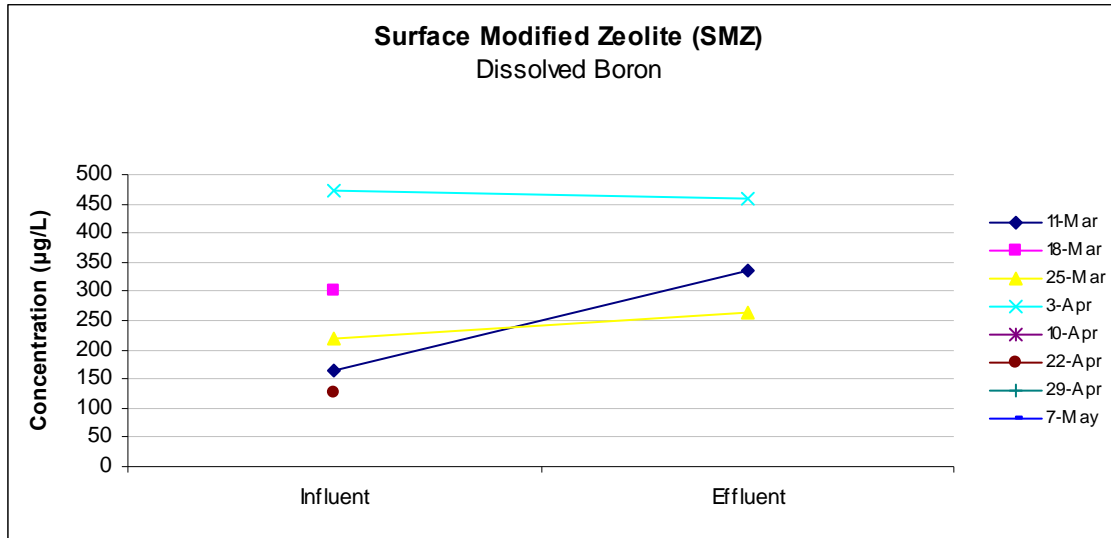




Total B



Dissolved B



# Total Ca

SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.966
R Square	0.934
Adjusted R Square	0.791
Standard Error	10156.194
Observations	8.000

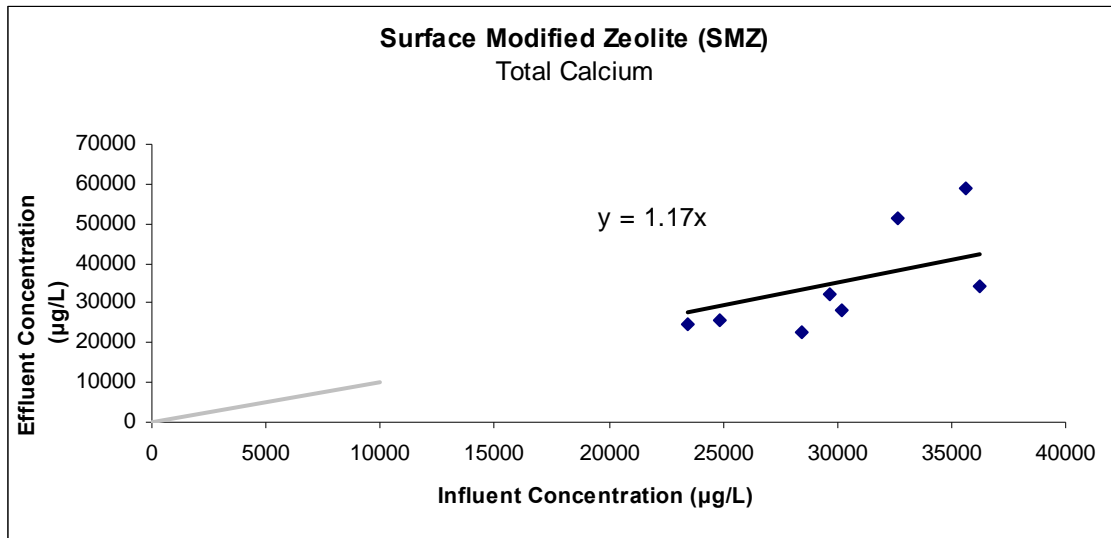
## ANOVA

	df	SS	MS	F	Significance F
Regression	1.000	10177942499.331	10177942499.331	98.673	0.000
Residual	7.000	722037933.670	103148276.239		
Total	8.000	10899880433.000			

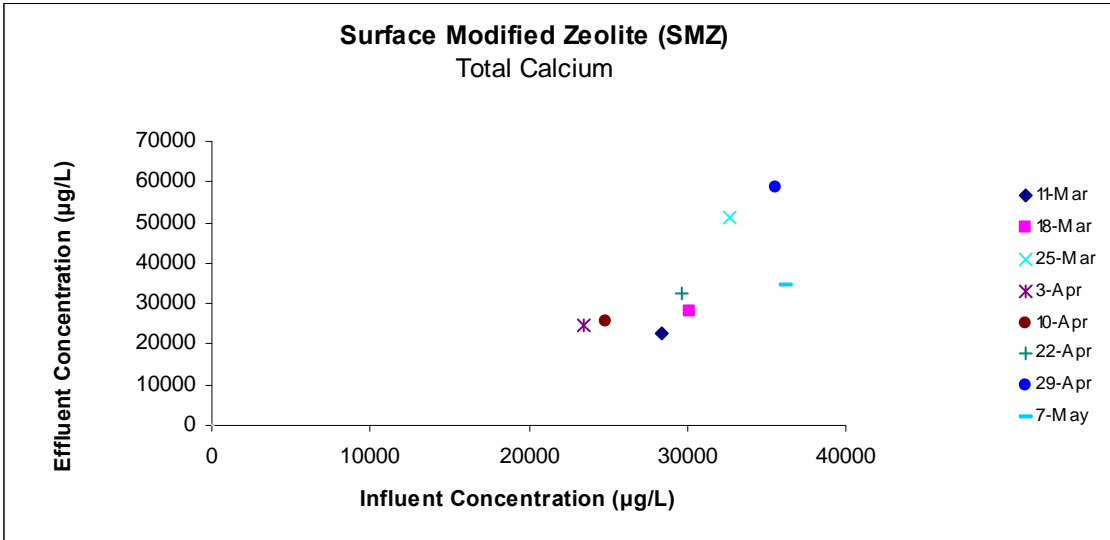
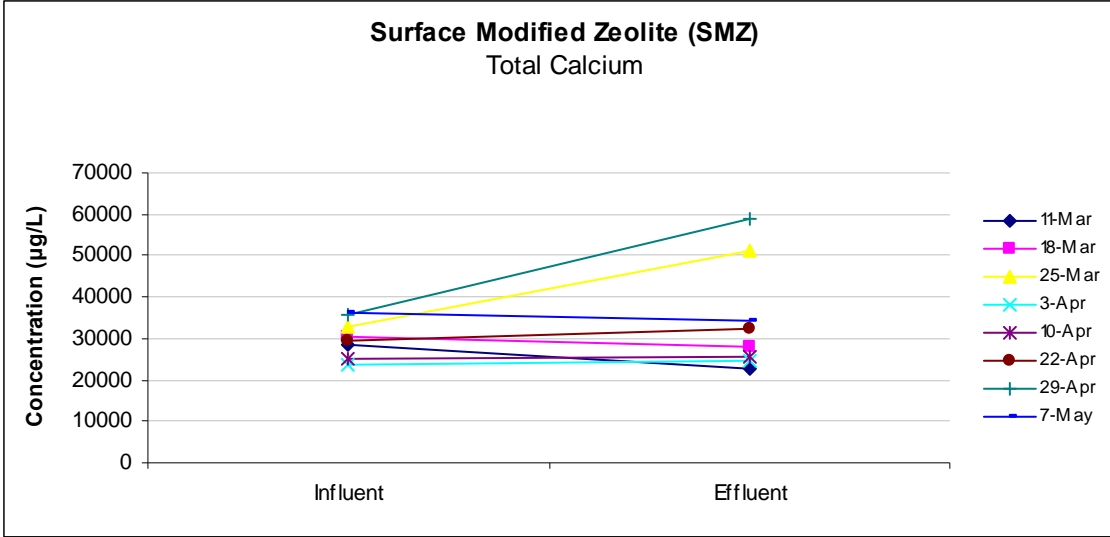
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	1.171	0.118	9.933	0.000	0.893	1.450	0.893	1.450

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	33291.643	-10772.643
2	35387.232	-7180.232
3	38231.330	13091.670
4	27505.051	-2832.051
5	29127.406	-3323.406
6	34742.976	-2312.976
7	41700.943	17099.057
8	42482.250	-8139.250







# Dissolved Ca

SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.209
R Square	0.044
Adjusted R Square	-0.116
Standard Error	11073.589
Observations	8.000

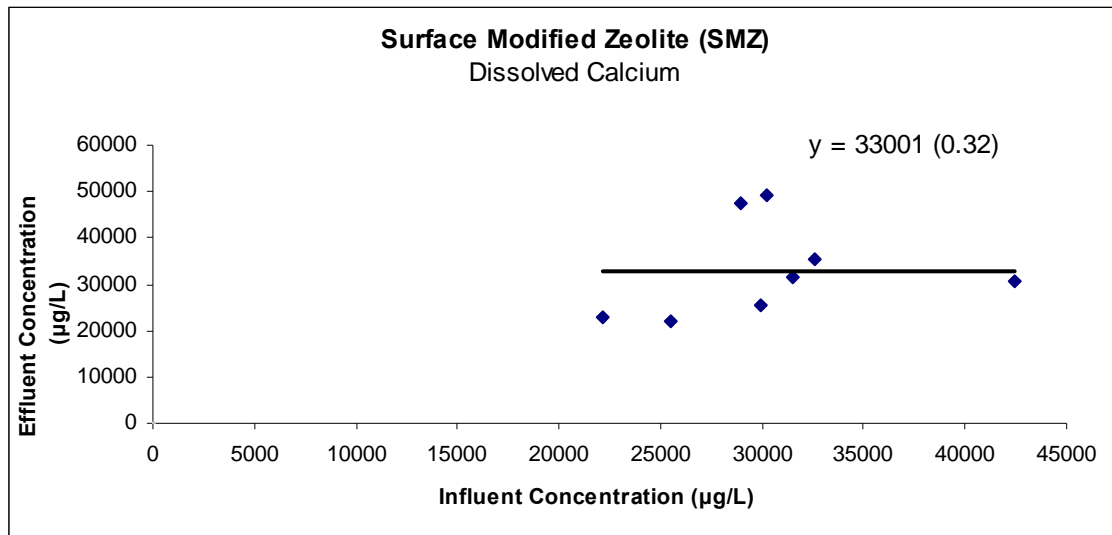
## ANOVA

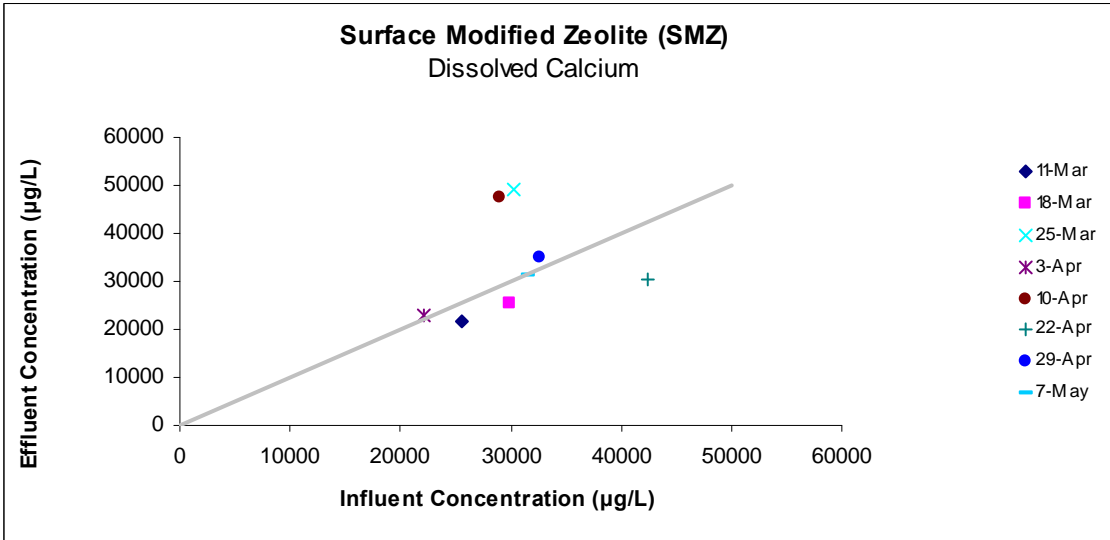
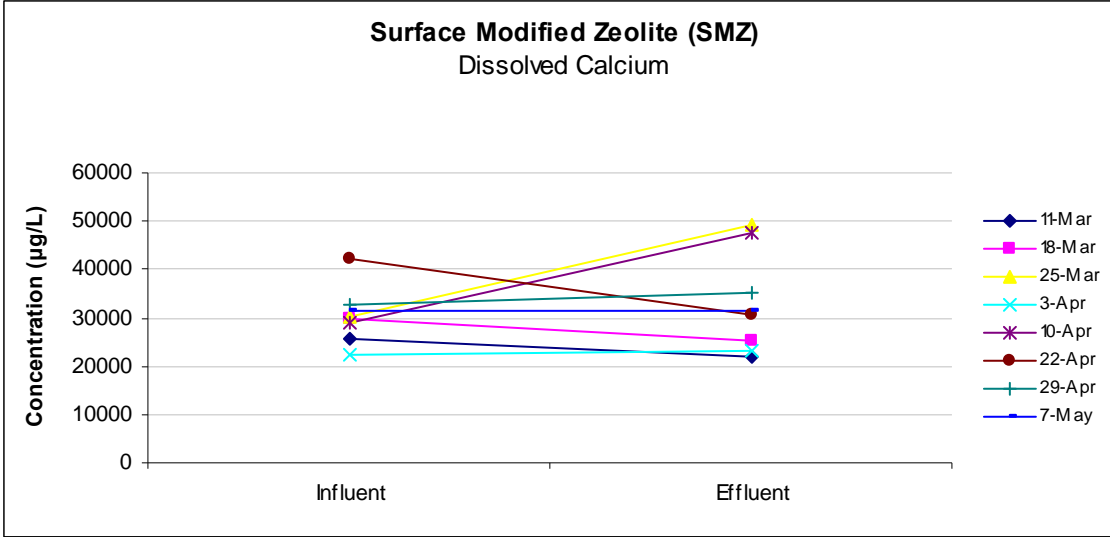
	df	SS	MS	F	Significance F
Regression	1.000	33512910.779	33512910.779	0.273	0.620
Residual	6.000	735743578.721	122623929.787		
Total	7.000	769256489.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	21742.681	21888.020	0.993	0.359	-31815.373	75300.736	-31815.373	75300.736
X Variable 1	0.370	0.708	0.523	0.620	-1.362	2.102	-1.362	2.102

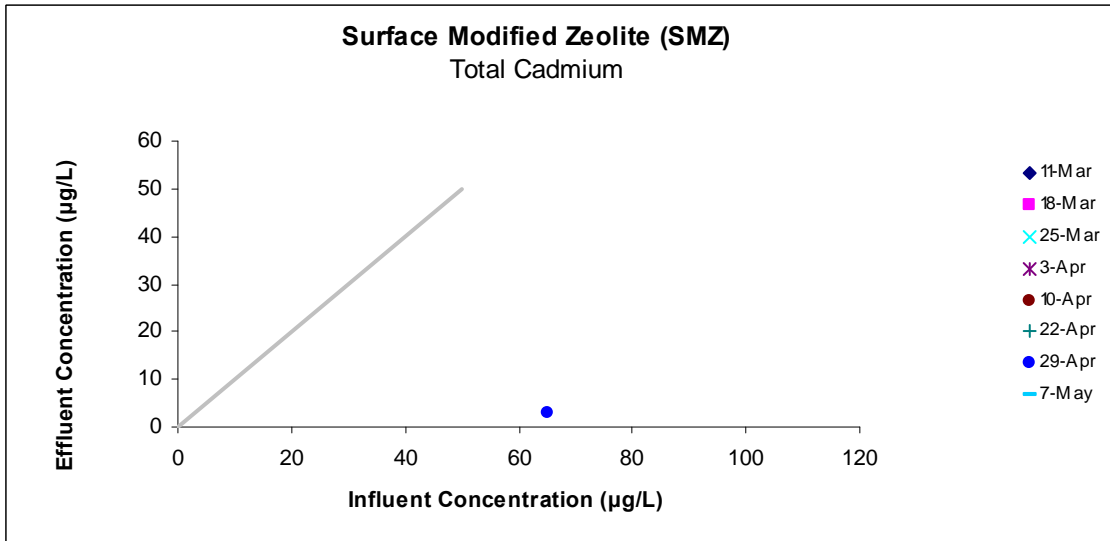
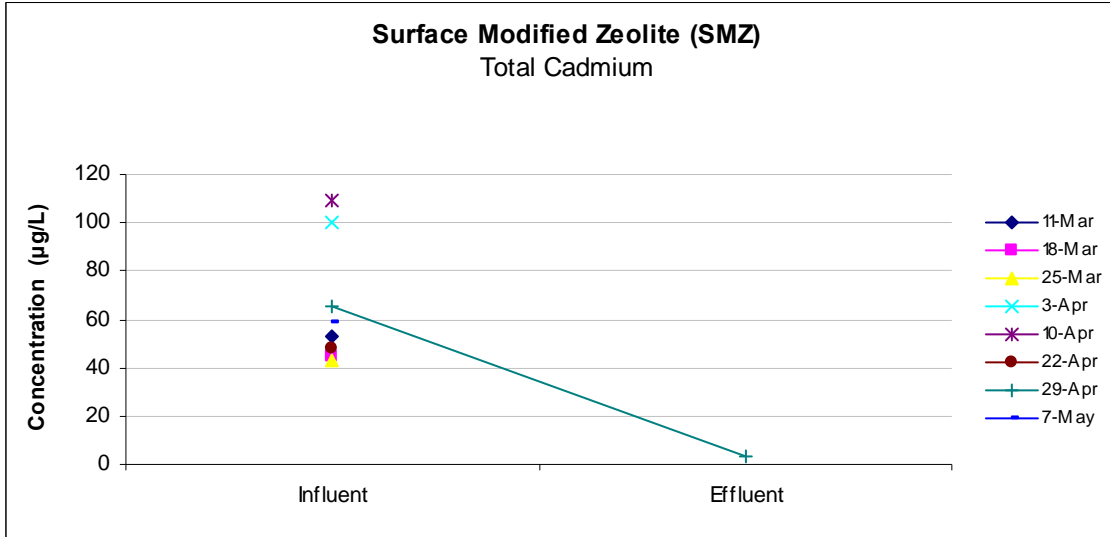
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	31177.768	-9322.768
2	32836.059	-7560.059
3	32940.396	16156.604
4	29936.826	-6876.826
5	32460.890	15167.110
6	37433.911	-6663.911
7	33815.419	1374.581
8	33404.732	-2074.732

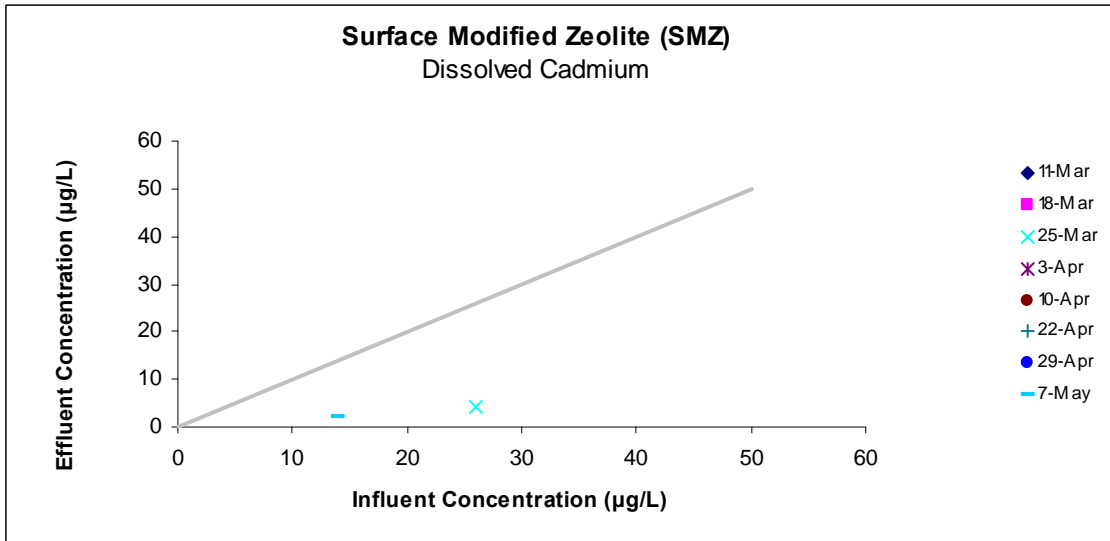
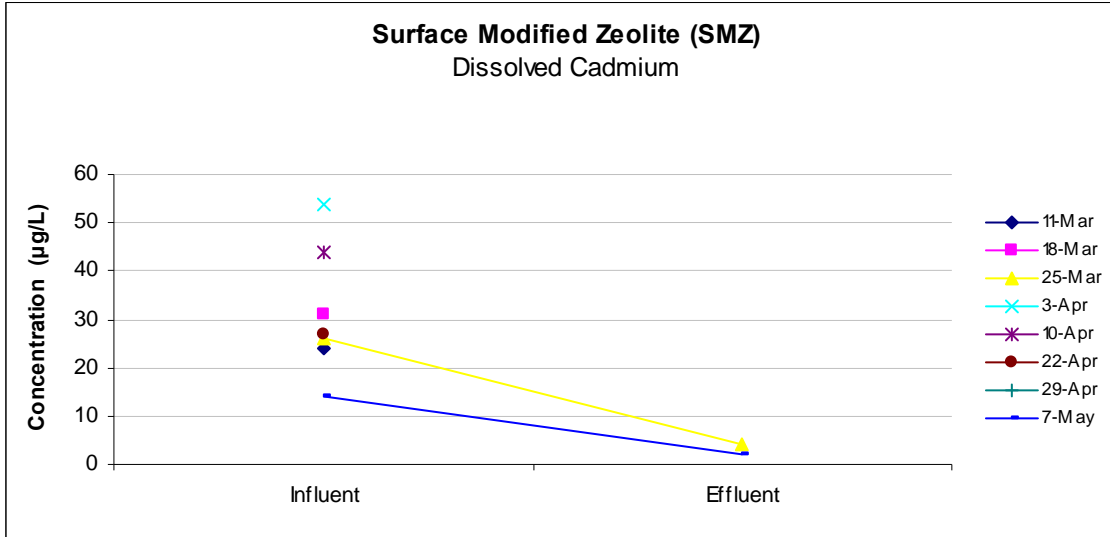




Total Cd



Dissolved Cd



# Total Cu

SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.162
R Square	0.026
Adjusted R Square	-0.136
Standard Error	9.850
Observations	8.000

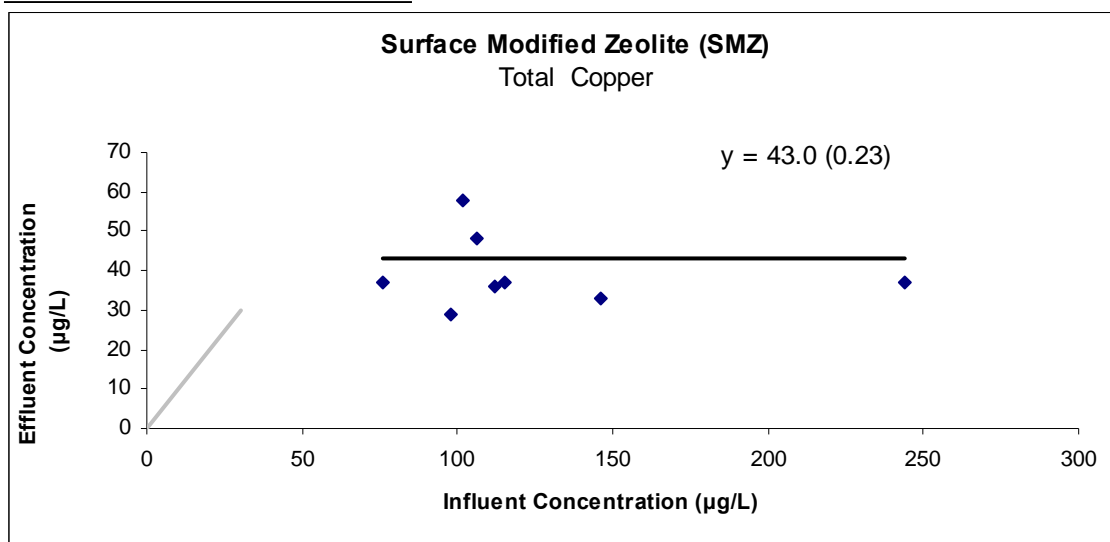
## ANOVA

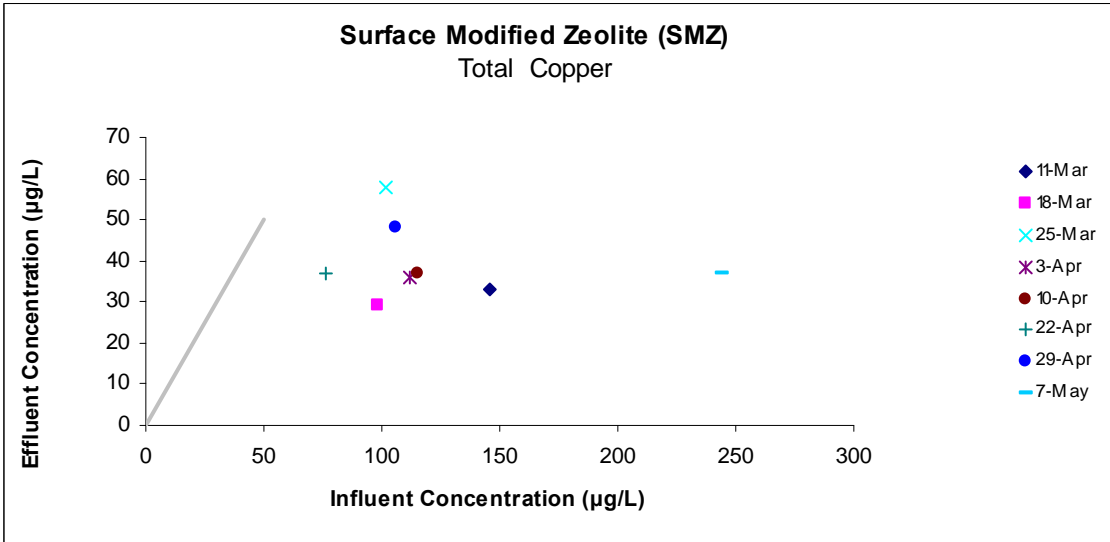
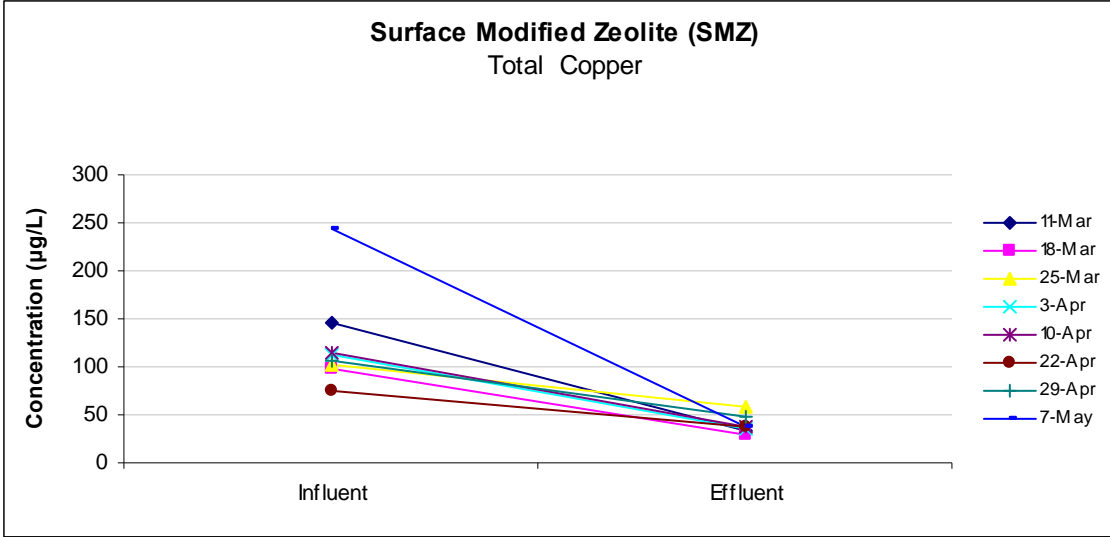
	df	SS	MS	F	Significance F
Regression	1.000	15.702	15.702	0.162	0.701
Residual	6.000	582.173	97.029		
Total	7.000	597.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	42.975	9.603	4.475	0.004	19.477	66.473	19.477	66.473
X Variable 1	-0.029	0.072	-0.402	0.701	-0.204	0.147	-0.204	0.147

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	38.766	-5.766
2	40.150	-11.150
3	40.034	17.966
4	39.746	-3.746
5	39.660	-2.660
6	40.784	-3.784
7	39.919	8.081
8	35.941	1.059





# Dissolved Cu

SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.504
R Square	0.254
Adjusted R Square	0.130
Standard Error	14.556
Observations	8.000

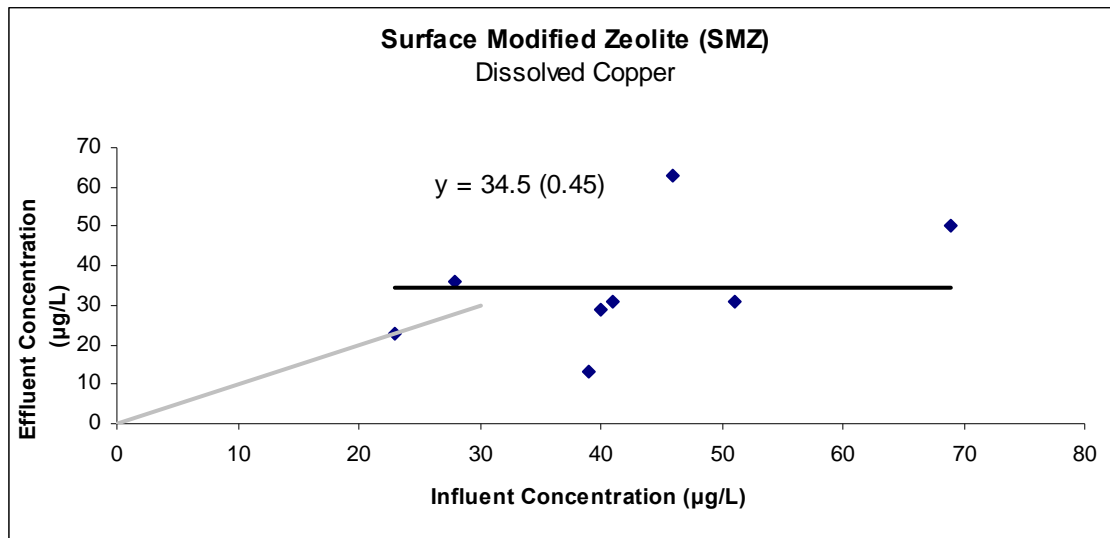
## ANOVA

	df	SS	MS	F	Significance F
Regression	1.000	432.756	432.756	2.043	0.203
Residual	6.000	1271.244	211.874		
Total	7.000	1704.000			

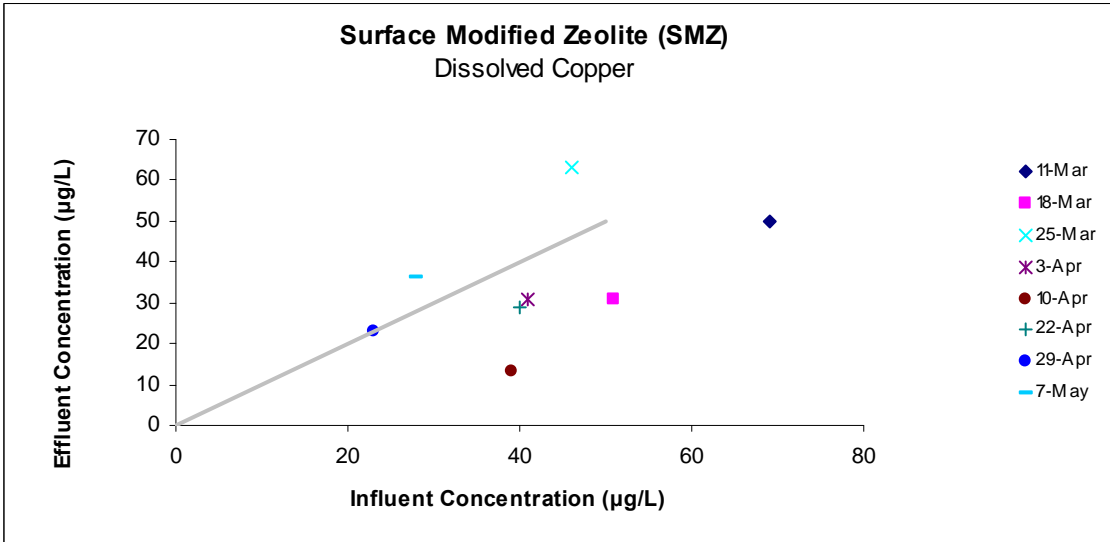
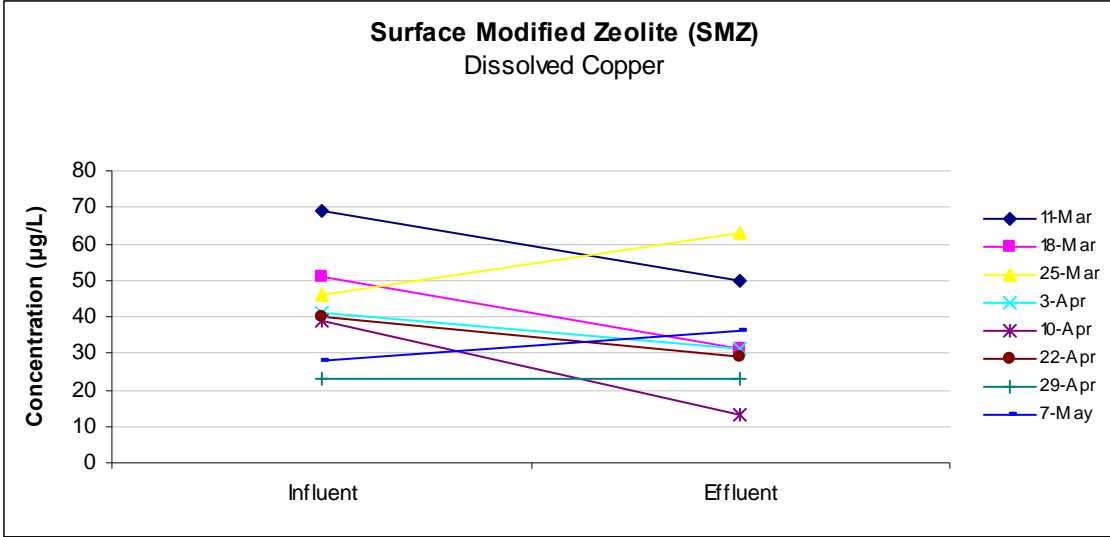
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	11.053	17.194	0.643	0.544	-31.019	53.126	-31.019	53.126
X Variable 1	0.557	0.389	1.429	0.203	-0.396	1.510	-0.396	1.510

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	49.459	0.541
2	39.440	-8.440
3	36.657	26.343
4	33.874	-2.874
5	32.761	-19.761
6	33.317	-4.317
7	23.855	-0.855
8	26.638	9.362







# Total Fe

SMZ

## SUMMARY OUTPUT

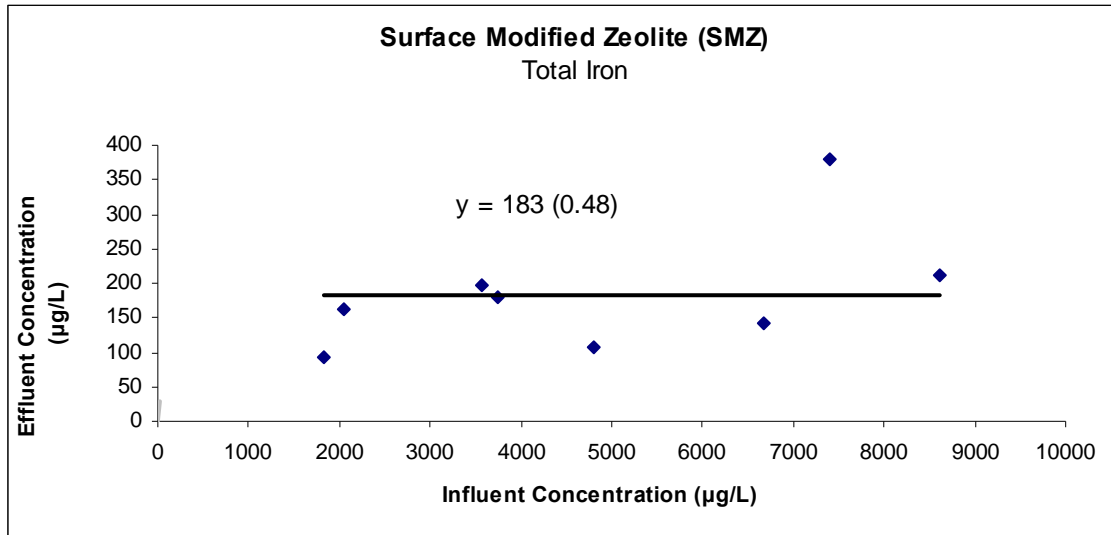
Regression Statistics	
Multiple R	0.541
R Square	0.292
Adjusted R Square	0.174
Standard Error	80.717
Observations	8.000

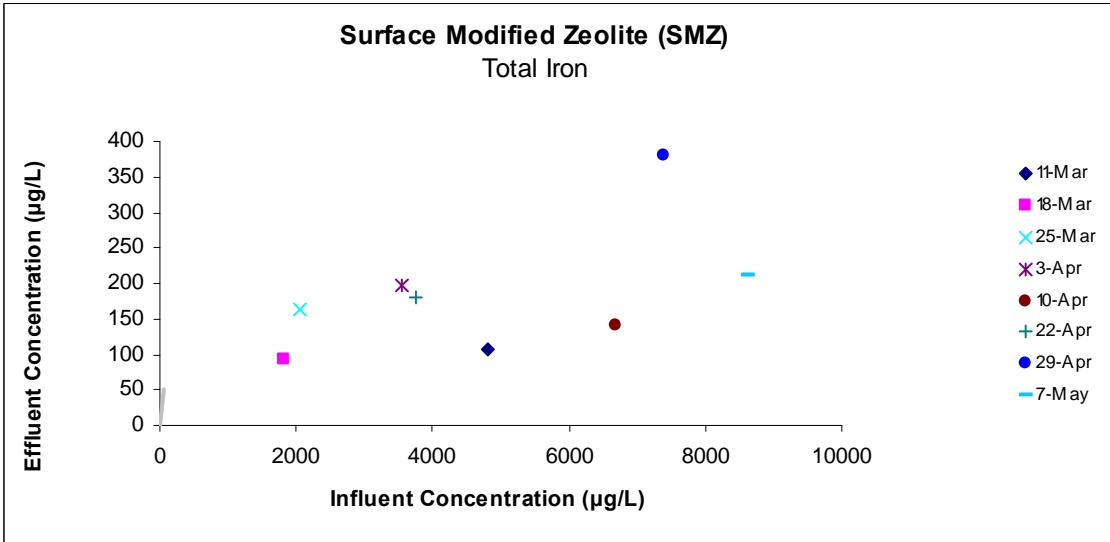
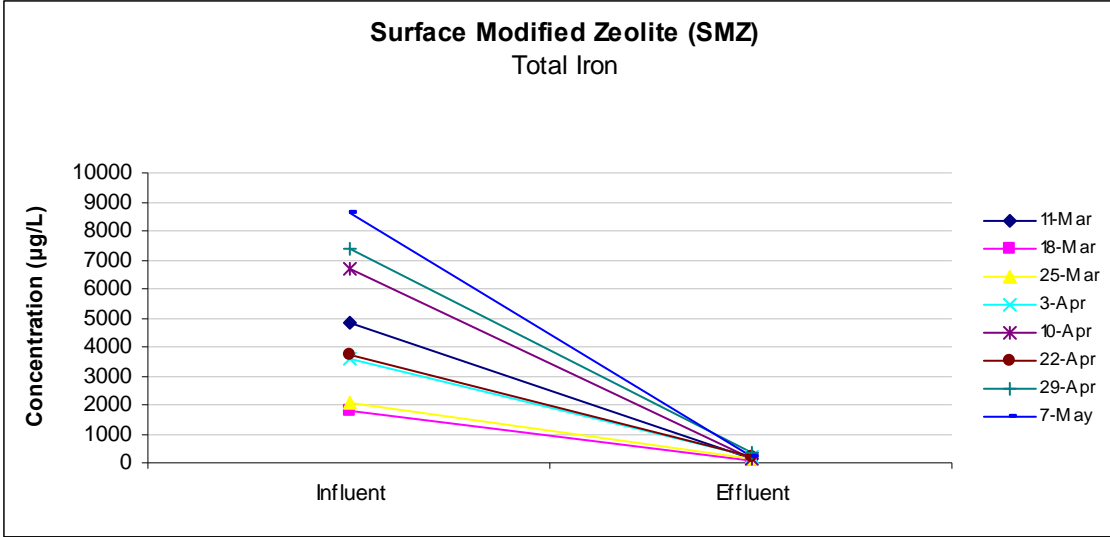
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	16141.766	16141.766	2.478	0.167
Residual	6.000	39091.109	6515.185		
Total	7.000	55232.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	91.179	65.441	1.393	0.213	-68.949	251.308	-68.949	251.308
X Variable 1	0.019	0.012	1.574	0.167	-0.011	0.049	-0.011	0.049

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	183.420	-76.420
2	126.074	-32.074
3	130.445	32.555
4	159.396	36.604
5	219.330	-78.330
6	163.077	16.923
7	232.905	146.095
8	256.353	-45.353





# Dissolved Fe

SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.415
R Square	0.172
Adjusted R Square	0.034
Standard Error	10.413
Observations	8.000

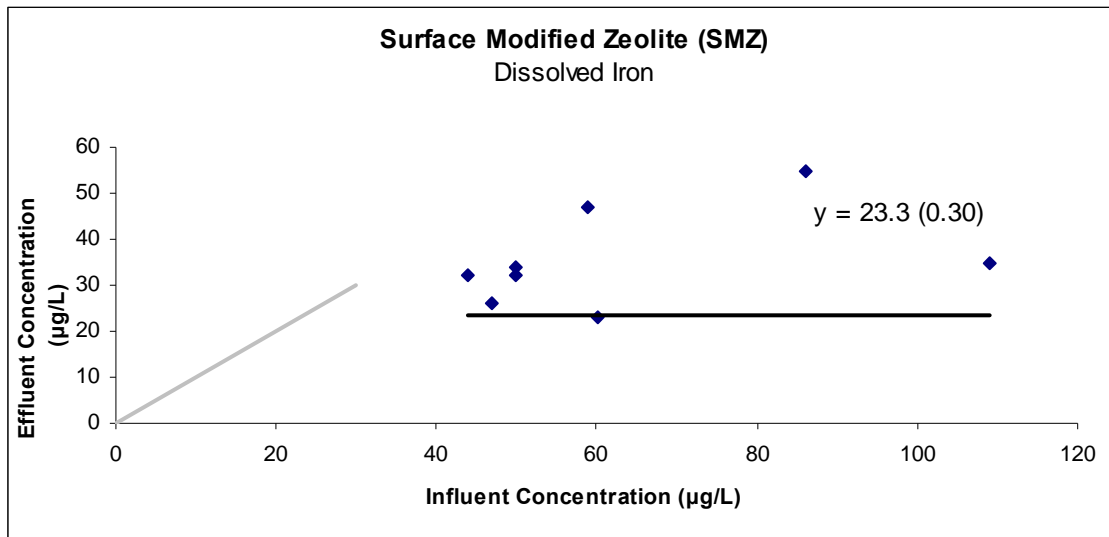
## ANOVA

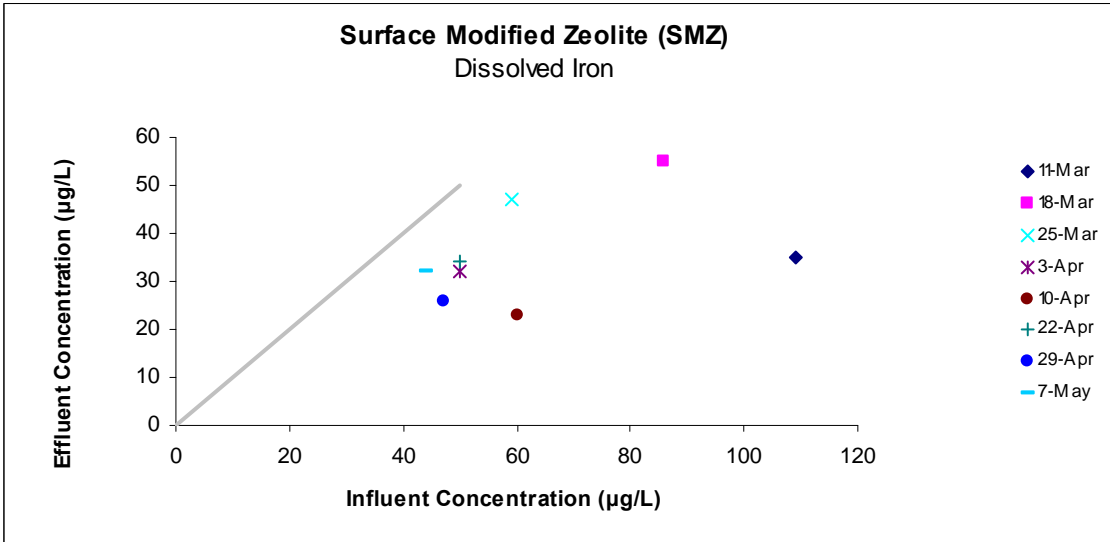
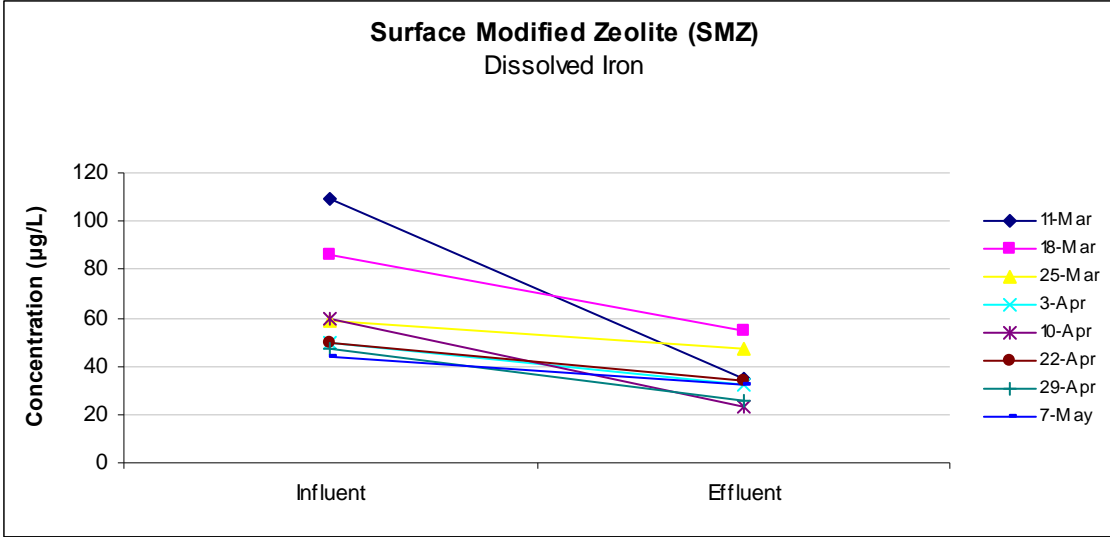
	df	SS	MS	F	Significance F
Regression	1.000	135.370	135.370	1.248	0.307
Residual	6.000	650.630	108.438		
Total	7.000	786.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	23.301	11.522	2.022	0.090	-4.892	51.495	-4.892	51.495
X Variable 1	0.193	0.173	1.117	0.307	-0.230	0.616	-0.230	0.616

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	44.365	-9.365
2	39.921	15.079
3	34.703	12.297
4	32.964	-0.964
5	34.896	-11.896
6	32.964	1.036
7	32.394	-6.394
8	31.804	0.196





# Total Mg

SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.522
R Square	0.272
Adjusted R Square	0.151
Standard Error	1476.421
Observations	8.000

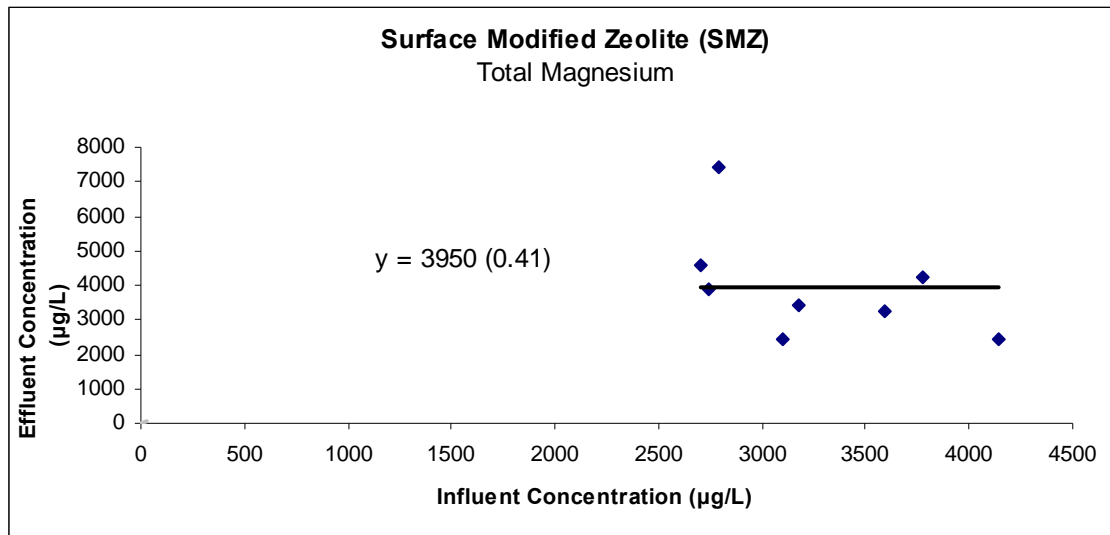
## ANOVA

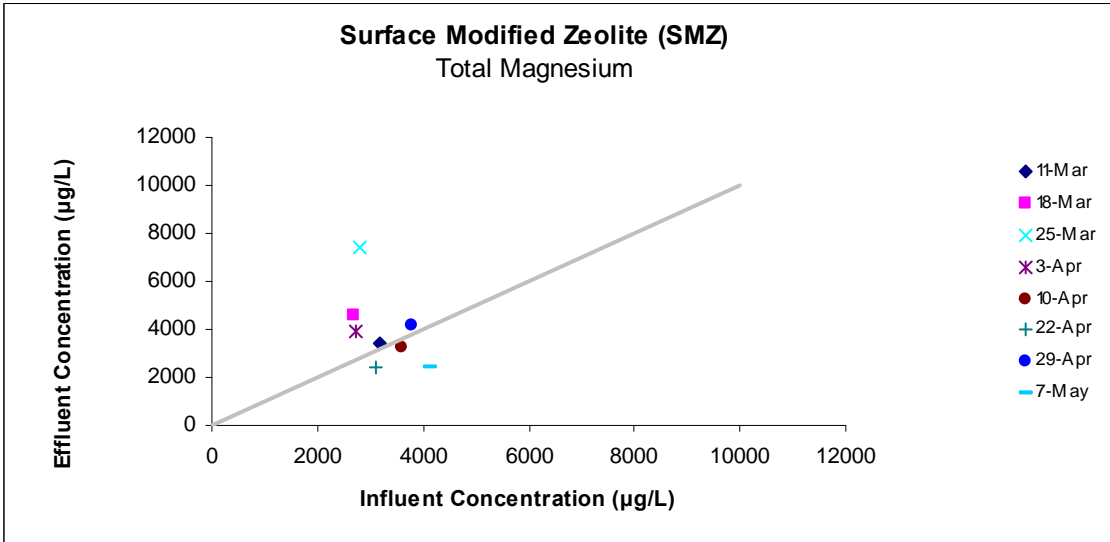
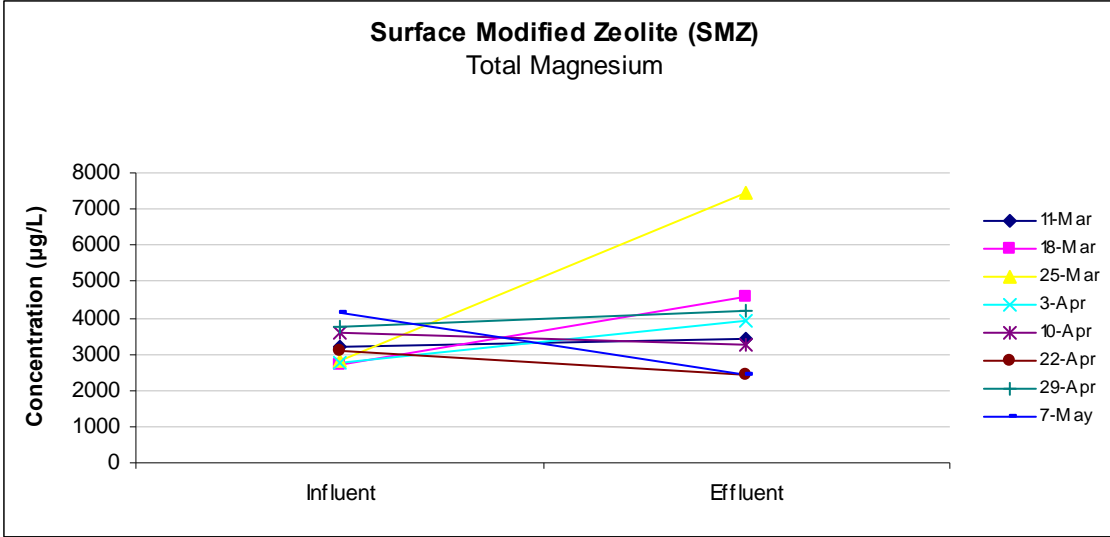
	df	SS	MS	F	Significance F
Regression	1.000	4891251.422	4891251.422	2.244	0.185
Residual	6.000	13078916.078	2179819.346		
Total	7.000	17970167.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	9071.678	3458.228	2.623	0.039	609.700	17533.657	609.700	17533.657
X Variable 1	-1.575	1.051	-1.498	0.185	-4.147	0.997	-4.147	0.997

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	4066.088	-619.088
2	4812.439	-252.439
3	4680.174	2746.826
4	4751.030	-861.030
5	3418.936	-183.936
6	4192.054	-1772.054
7	3130.787	1074.213
8	2554.491	-132.491





# Dissolved Mg

SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.268
R Square	0.072
Adjusted R Square	-0.083
Standard Error	1465.723
Observations	8.000

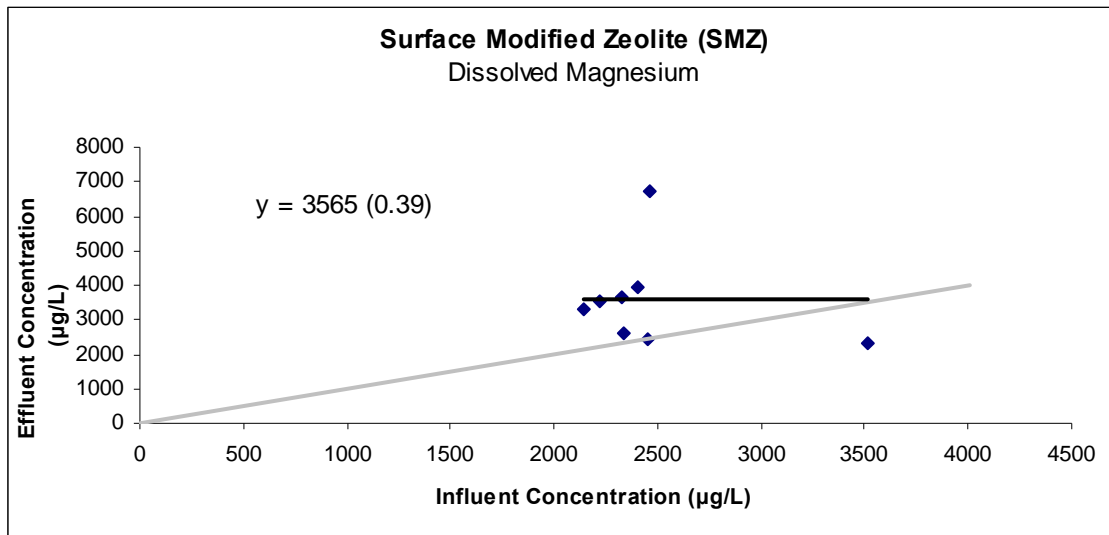
## ANOVA

	df	SS	MS	F	Significance F
Regression	1.000	993854.524	993854.524	0.463	0.522
Residual	6.000	12890059.476	2148343.246		
Total	7.000	13883914.000			

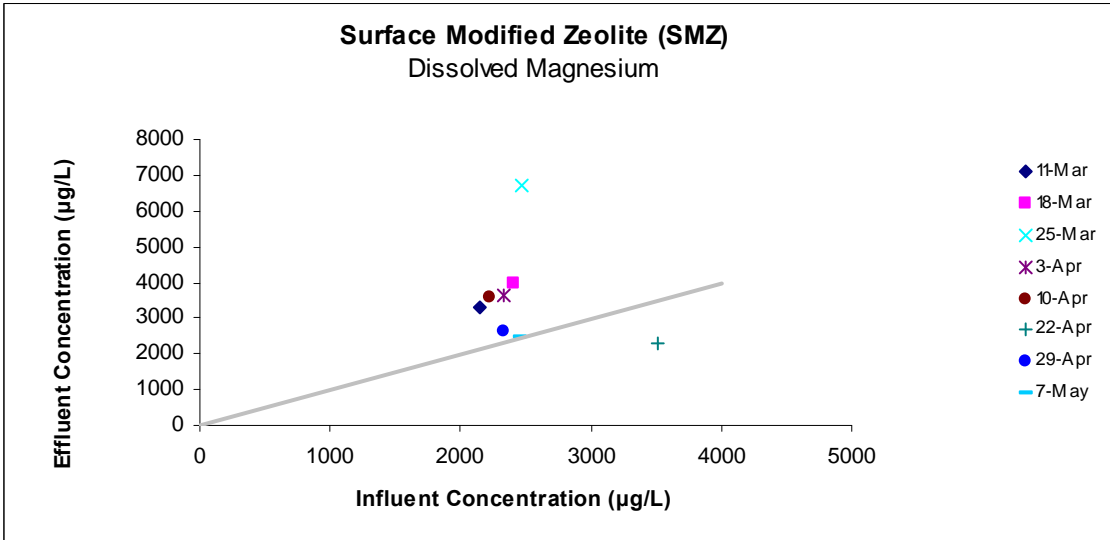
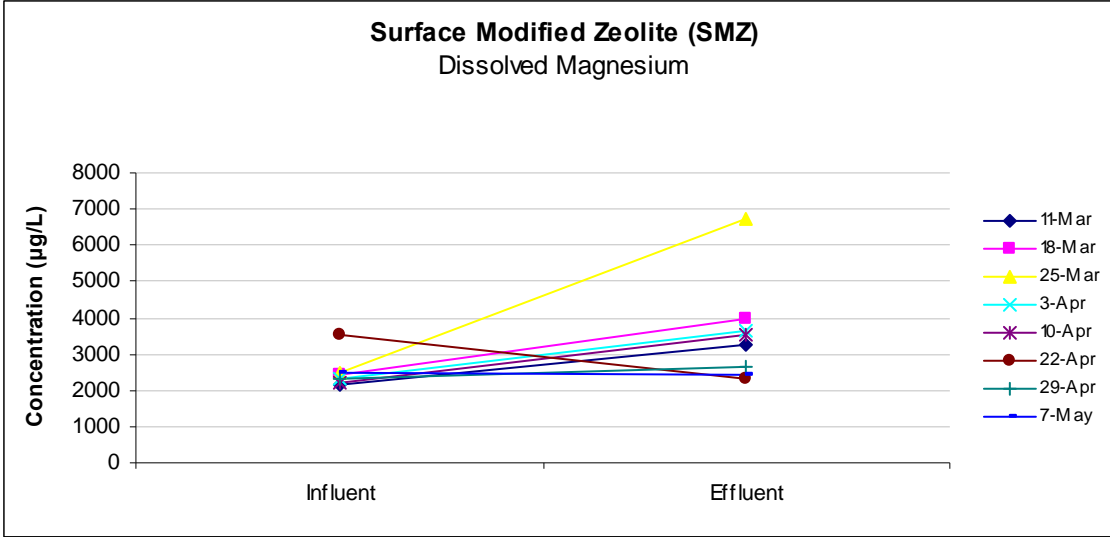
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	5731.748	3226.803	1.776	0.126	-2163.955	13627.450	-2163.955	13627.450
X Variable 1	-0.872	1.282	-0.680	0.522	-4.010	2.266	-4.010	2.266

## RESIDUAL OUTPUT

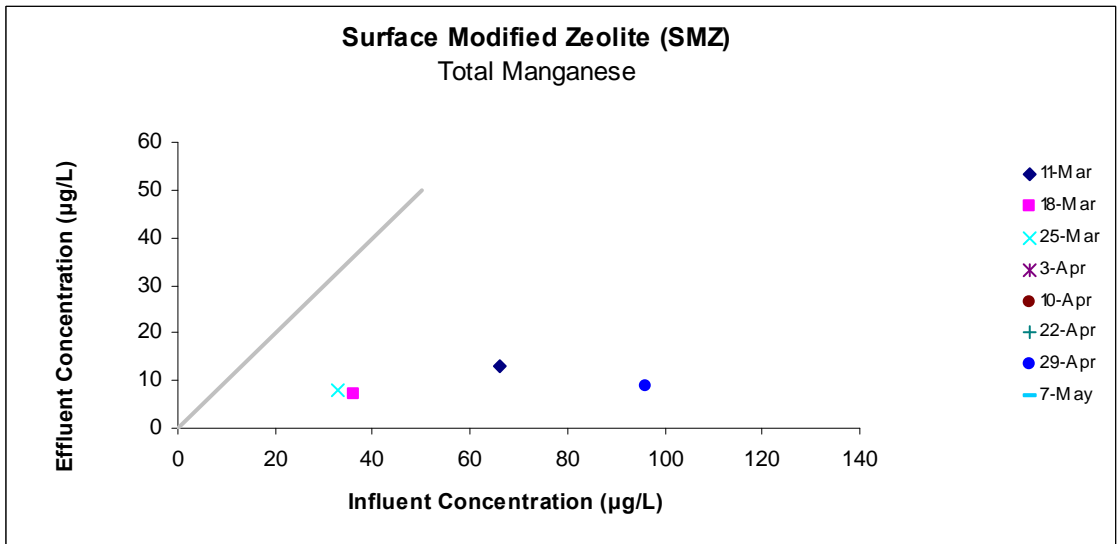
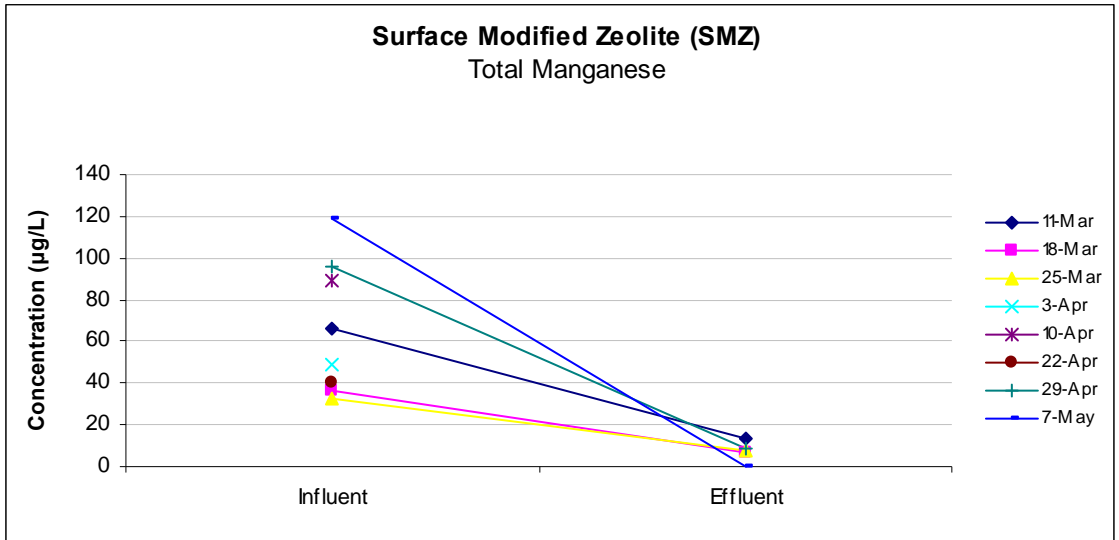
Observation	Predicted Y	Residuals
1	3861.631	-581.631
2	3634.844	322.156
3	3583.381	3129.619
4	3702.008	-57.008
5	3794.467	-237.467
6	2664.023	-356.023
7	3695.030	-1067.030
8	3588.615	-1152.615



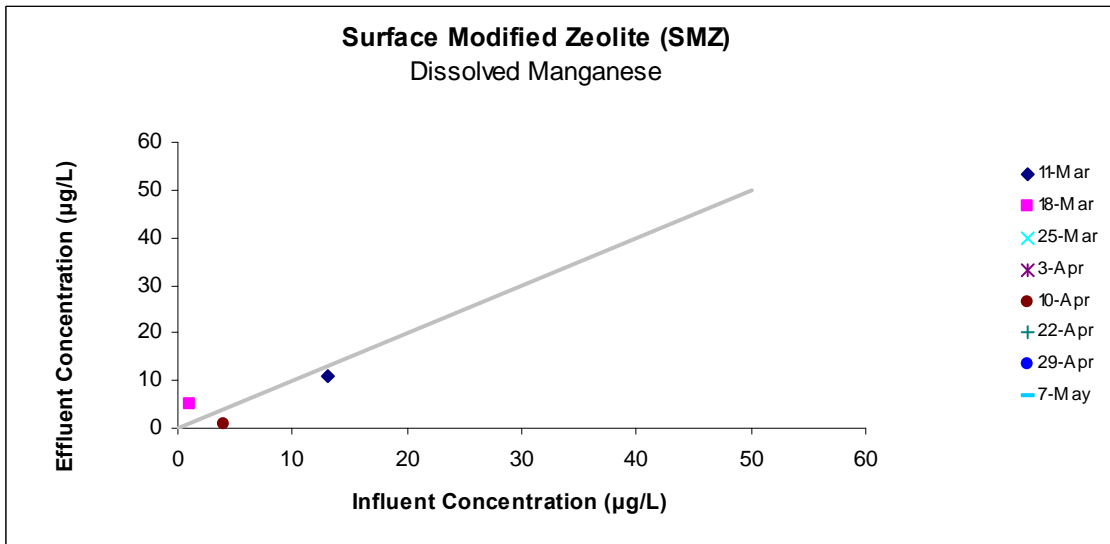
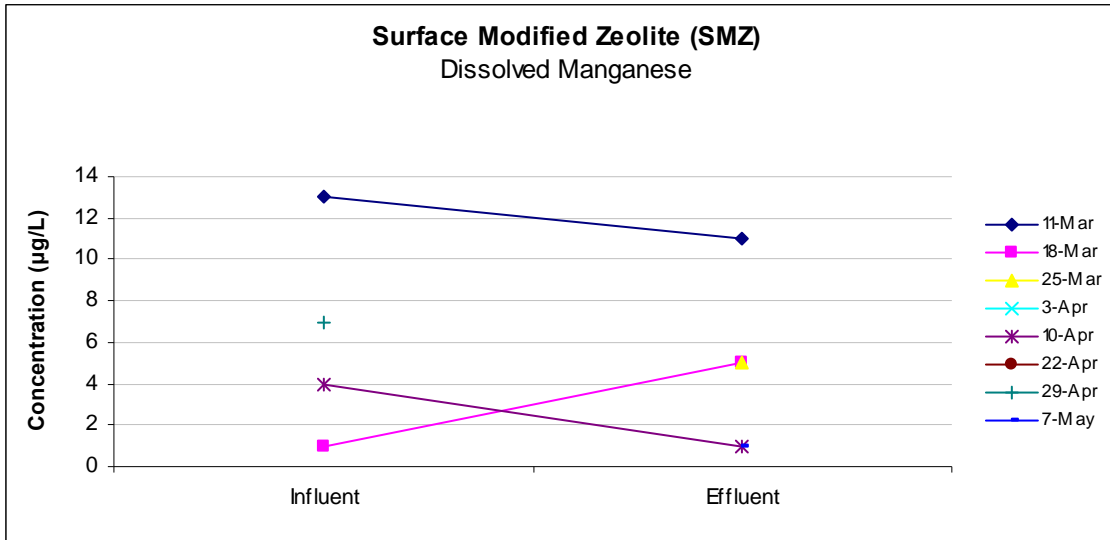




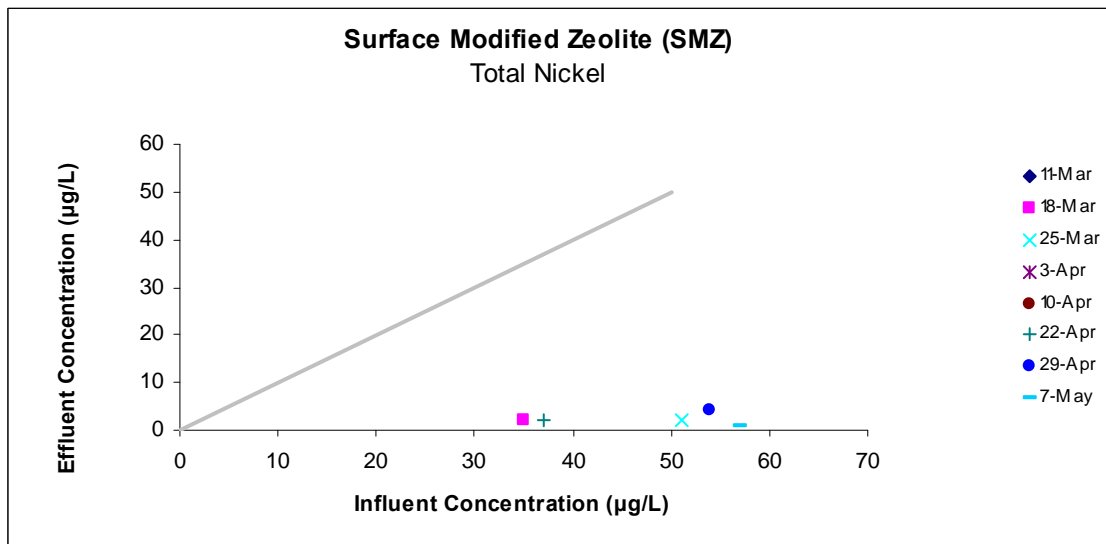
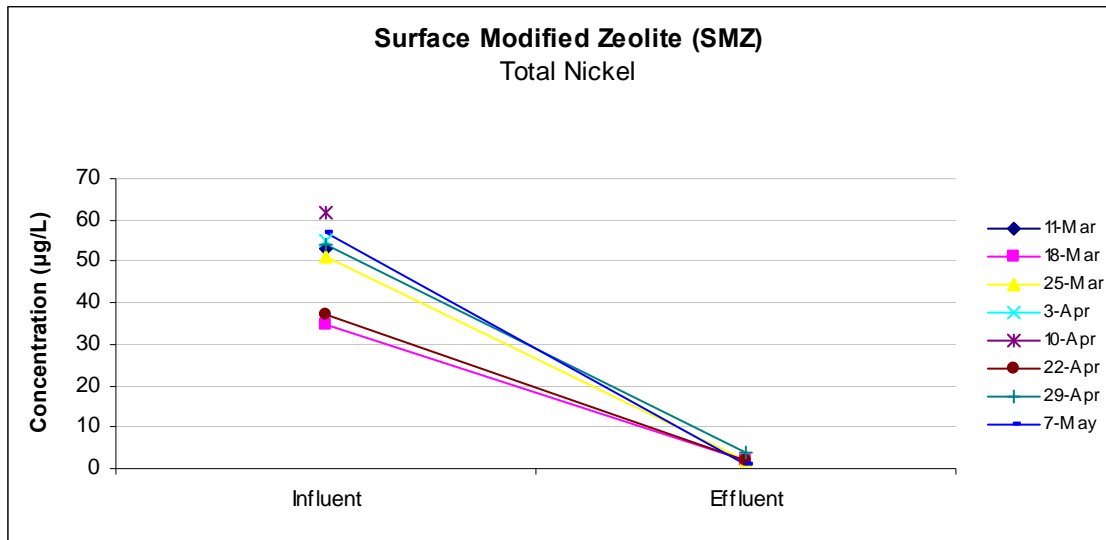
Total Mn



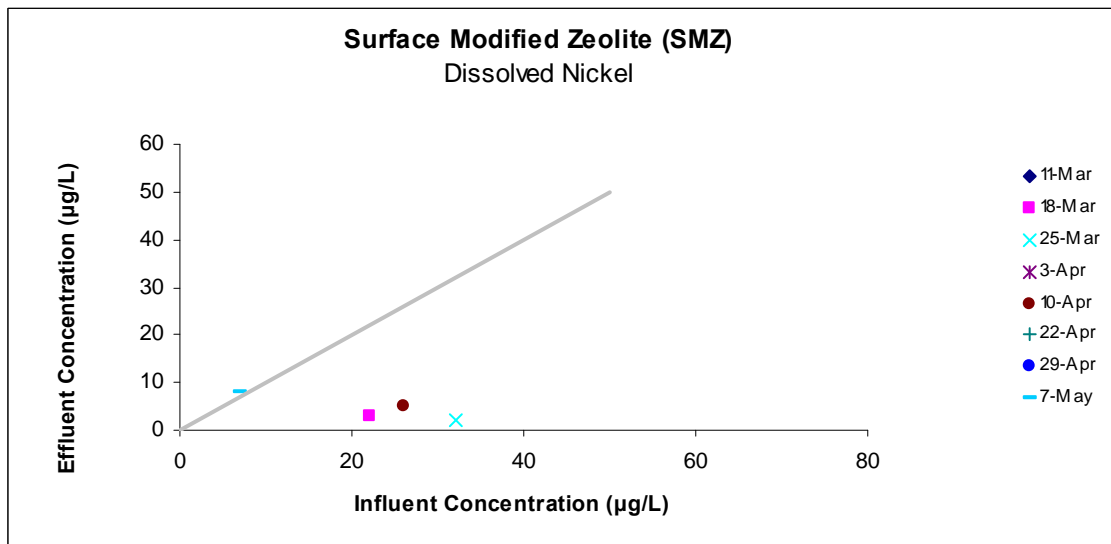
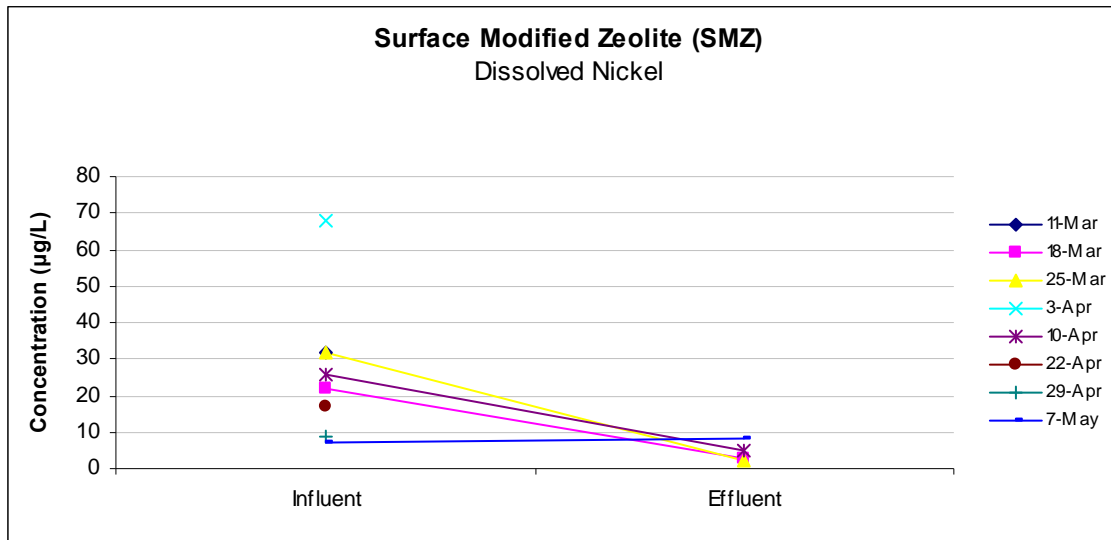
Dissolved Mn



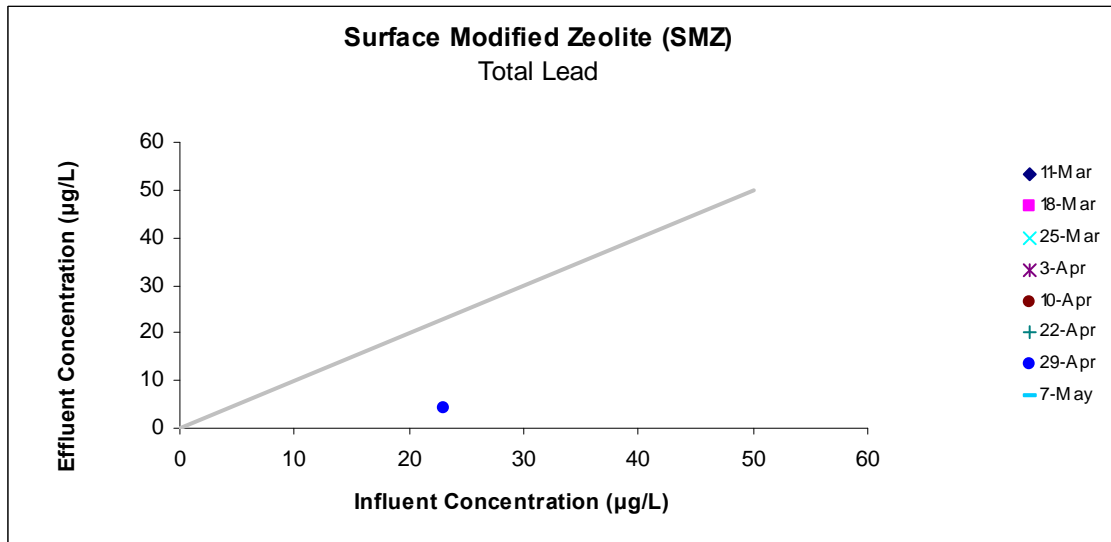
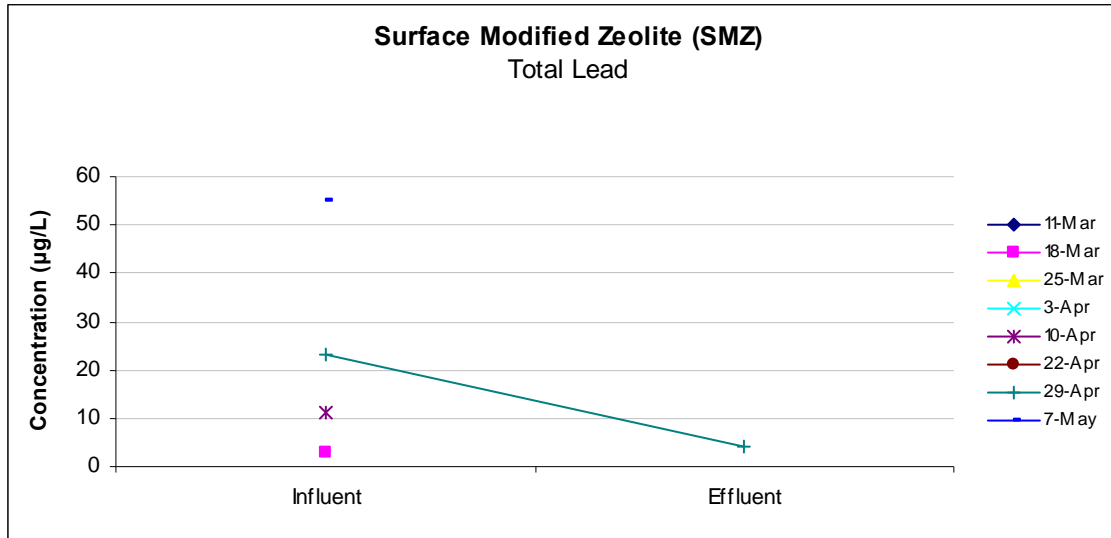
Total Ni



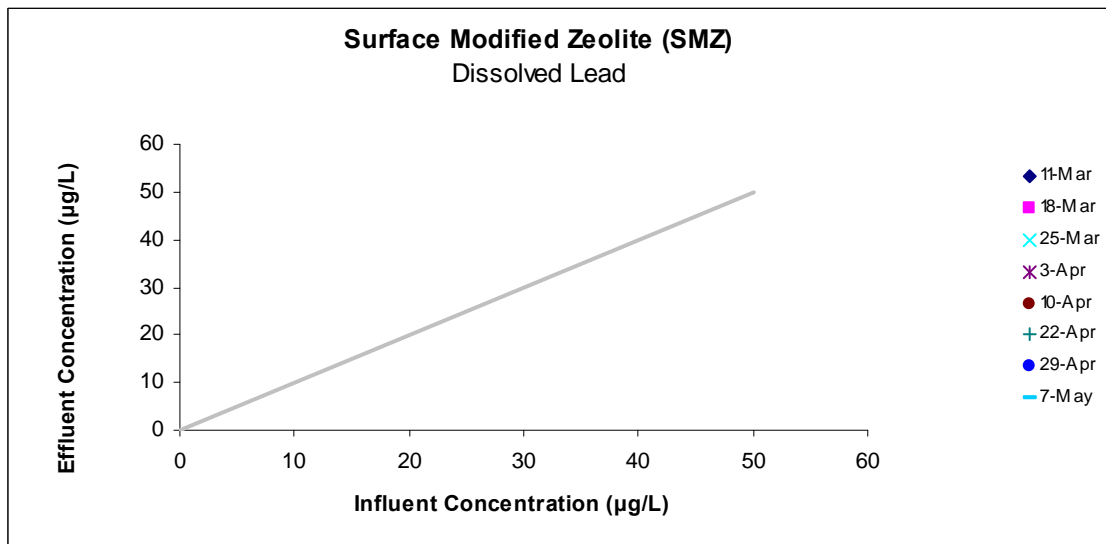
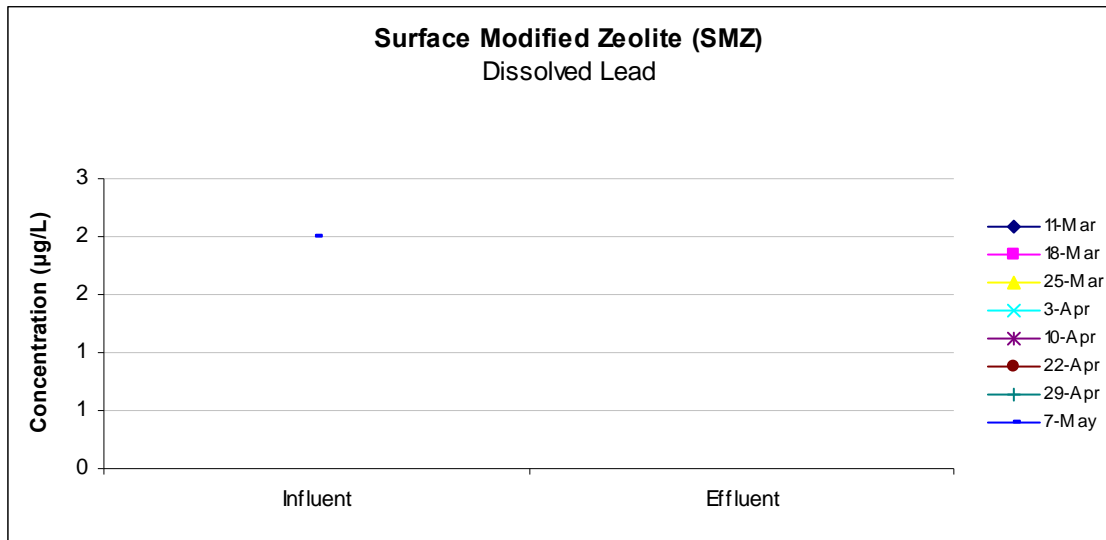
Dissolved Ni



Total Pb



# Dissolved Pb



# Total Zn

SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.170
R Square	0.029
Adjusted R Square	-0.133
Standard Error	11.563
Observations	8.000

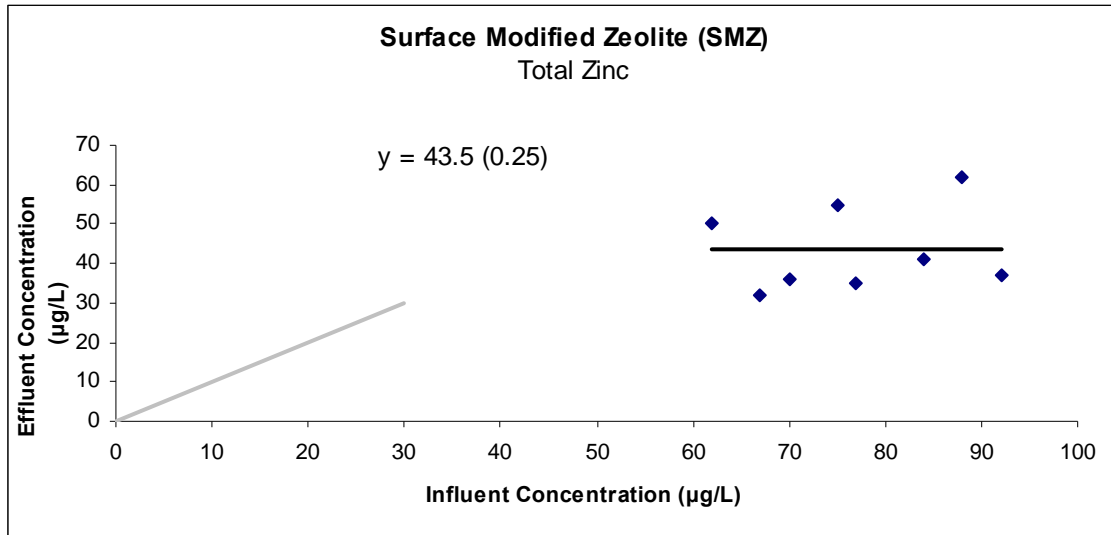
## ANOVA

	df	SS	MS	F	Significance F
Regression	1.000	23.756	23.756	0.178	0.688
Residual	6.000	802.244	133.707		
Total	7.000	826.000			

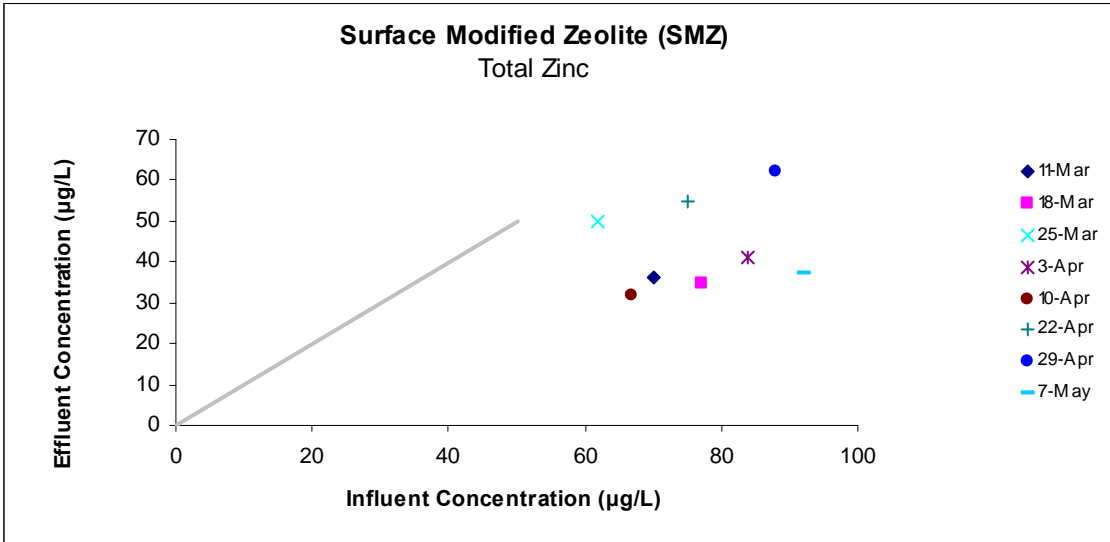
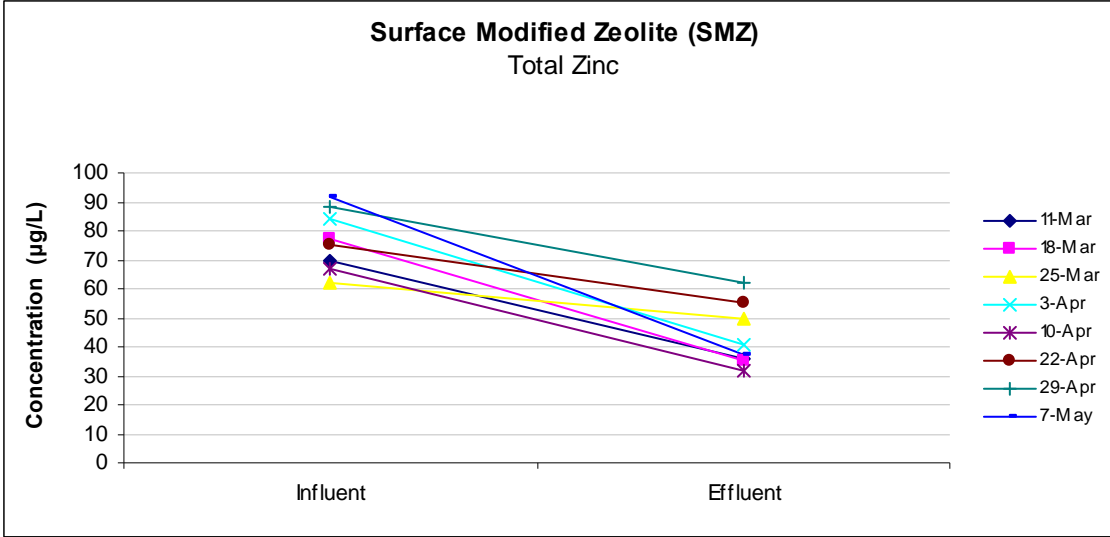
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	30.022	32.235	0.931	0.388	-48.854	108.899	-48.854	108.899
X Variable 1	0.175	0.416	0.422	0.688	-0.842	1.193	-0.842	1.193

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	42.295	-6.295
2	43.522	-8.522
3	40.892	9.108
4	44.749	-3.749
5	41.769	-9.769
6	43.171	11.829
7	45.450	16.550
8	46.152	-9.152







# Dissolved Zn

SMZ

## SUMMARY OUTPUT

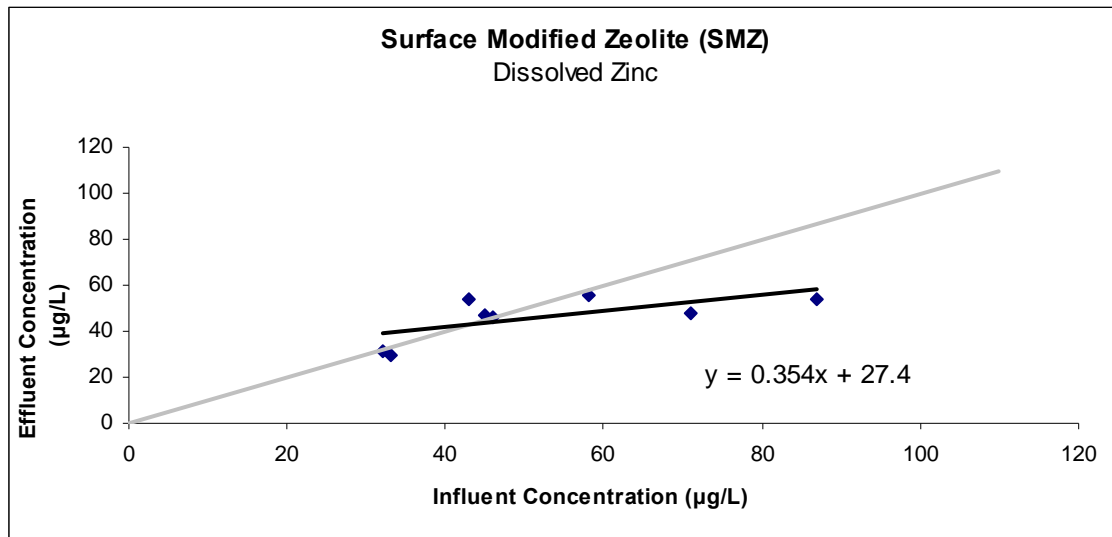
Regression Statistics	
Multiple R	0.669
R Square	0.448
Adjusted R Square	0.356
Standard Error	8.101
Observations	8.000

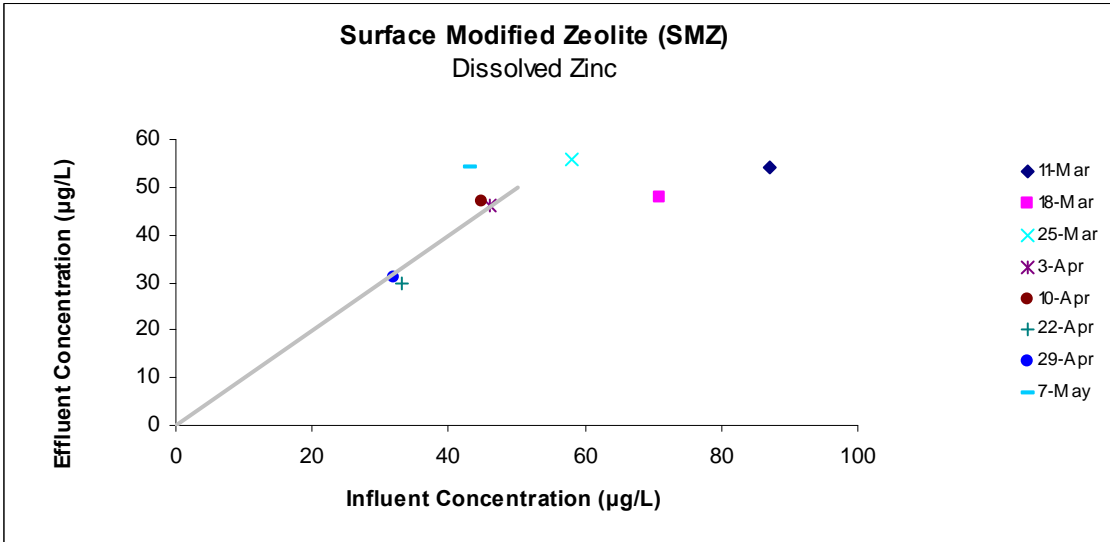
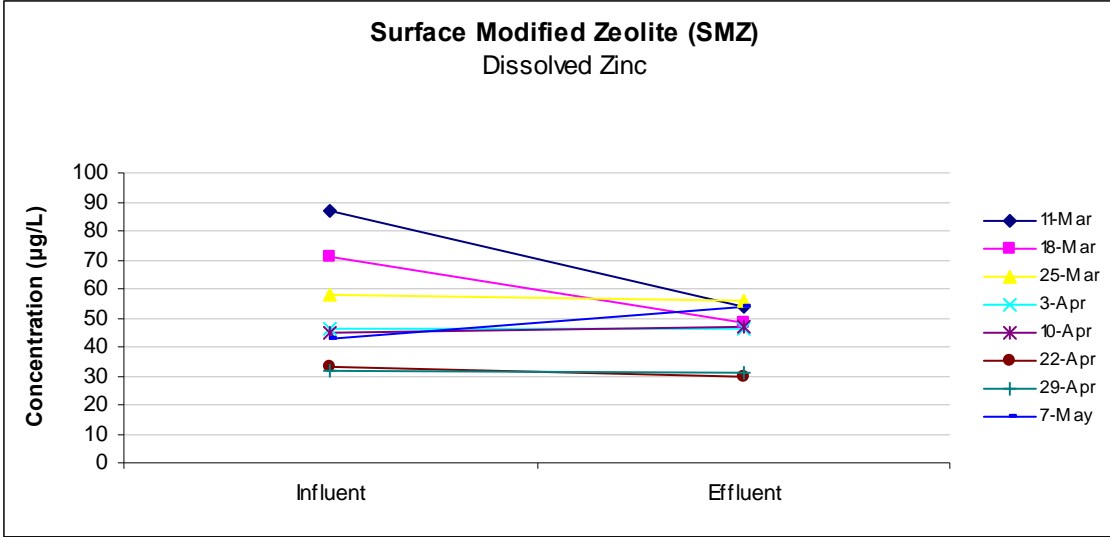
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	319.732	319.732	4.872	0.069
Residual	6.000	393.768	65.628		
Total	7.000	713.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	27.377	8.803	3.110	0.021	5.837	48.917	5.837	48.917
X Variable 1	0.354	0.160	2.207	0.069	-0.038	0.747	-0.038	0.747

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	58.190	-4.190
2	52.524	-4.524
3	47.919	8.081
4	43.869	2.331
5	43.315	3.685
6	39.065	-9.065
7	38.711	-7.711
8	42.607	11.393





# Total K

SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.097
R Square	0.009
Adjusted R Square	-0.156
Standard Error	1225.250
Observations	8.000

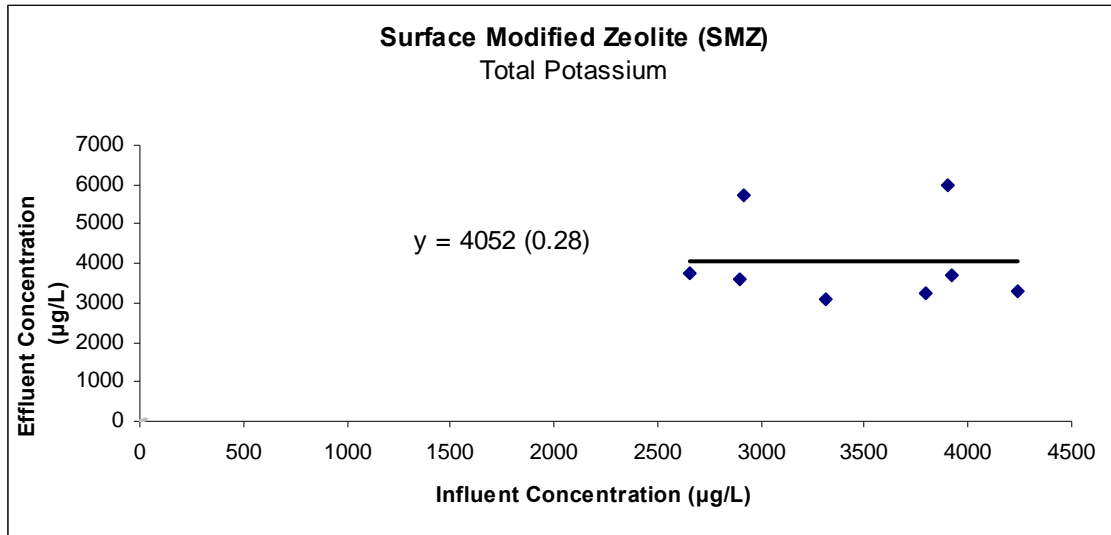
## ANOVA

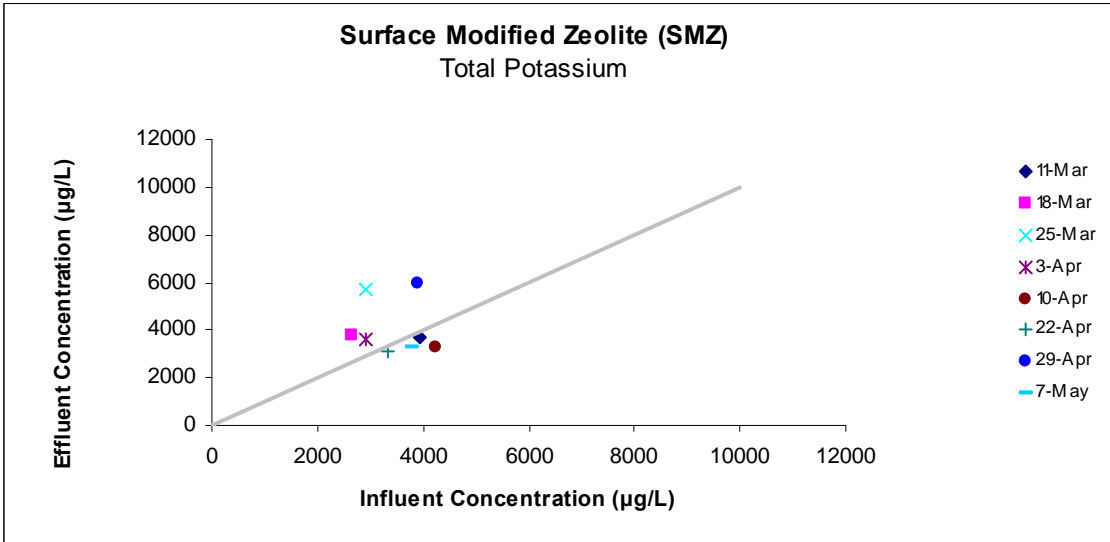
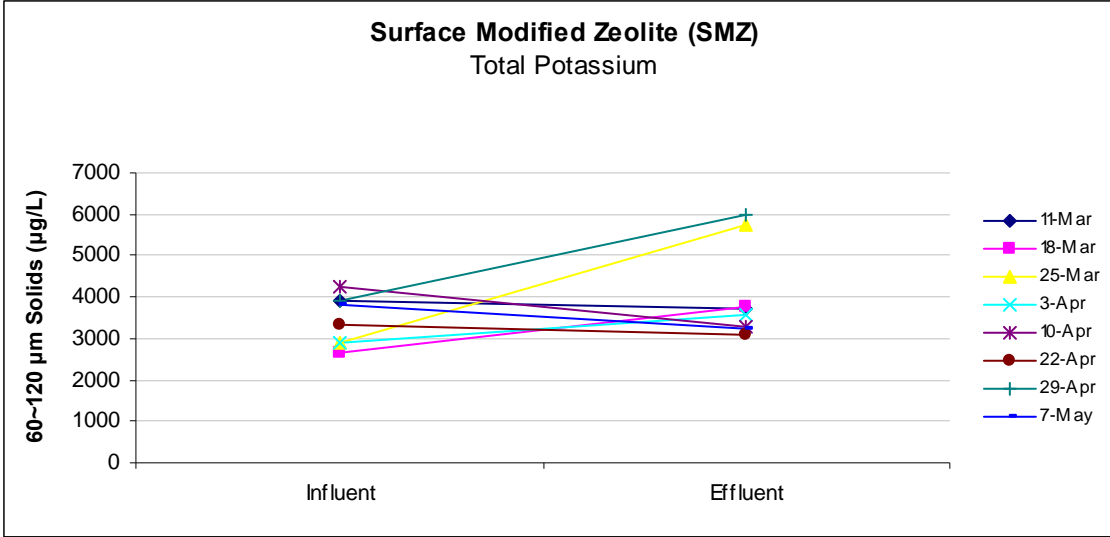
	df	SS	MS	F	Significance F
Regression	1.000	84936.542	84936.542	0.057	0.820
Residual	6.000	9007430.958	1501238.493		
Total	7.000	9092367.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	4702.075	2764.013	1.701	0.140	-2061.222	11465.372	-2061.222	11465.372
X Variable 1	-0.188	0.790	-0.238	0.820	-2.122	1.746	-2.122	1.746

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	3965.254	-249.254
2	4203.654	-436.654
3	4153.830	1587.170
4	4158.650	-579.650
5	3905.090	-613.090
6	4079.001	-981.001
7	3869.202	2005.798
8	3889.319	-734.319





# Dissolved K

SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.430
R Square	0.185
Adjusted R Square	0.049
Standard Error	1261.240
Observations	8.000

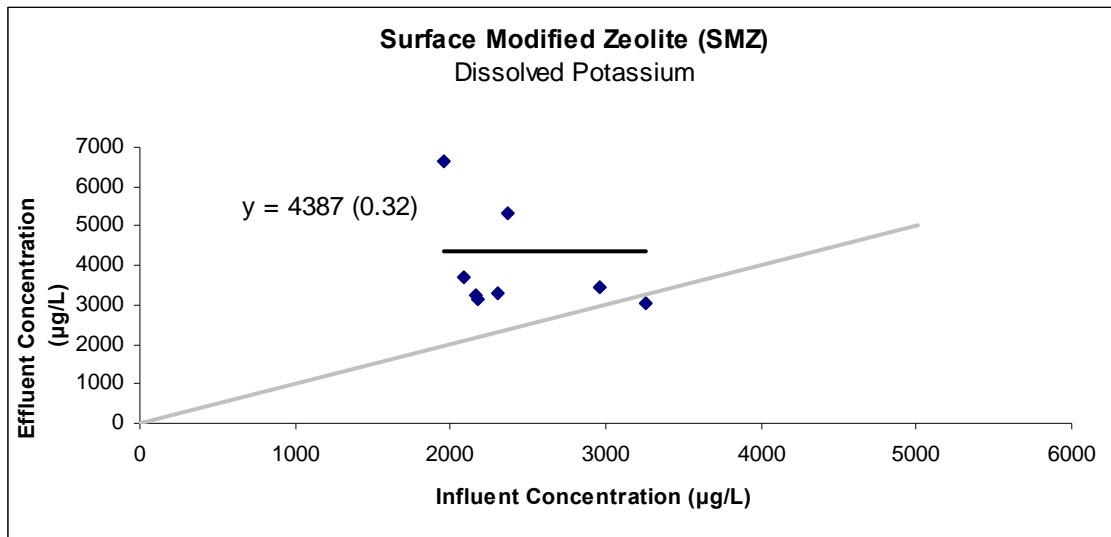
## ANOVA

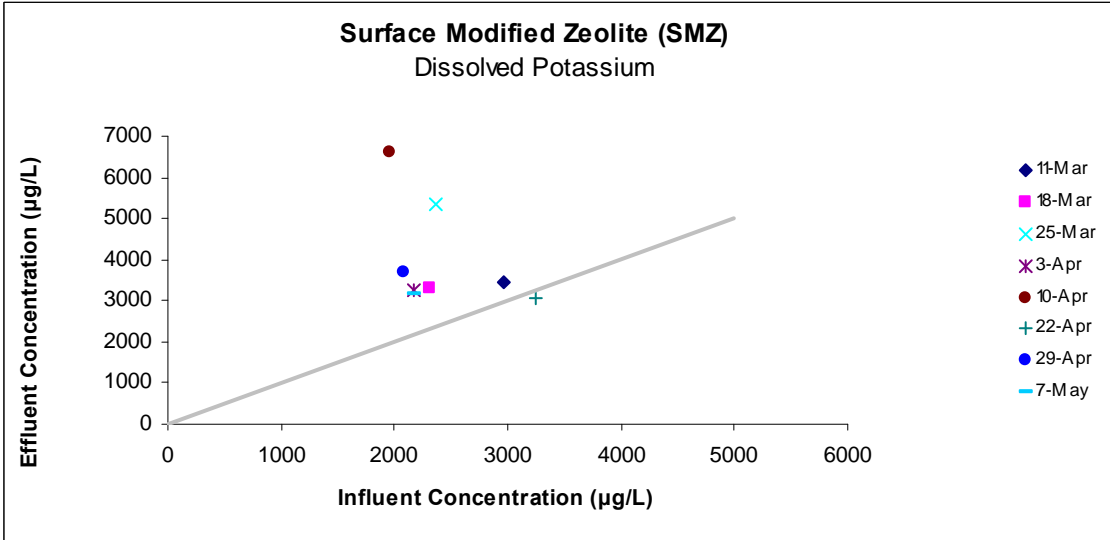
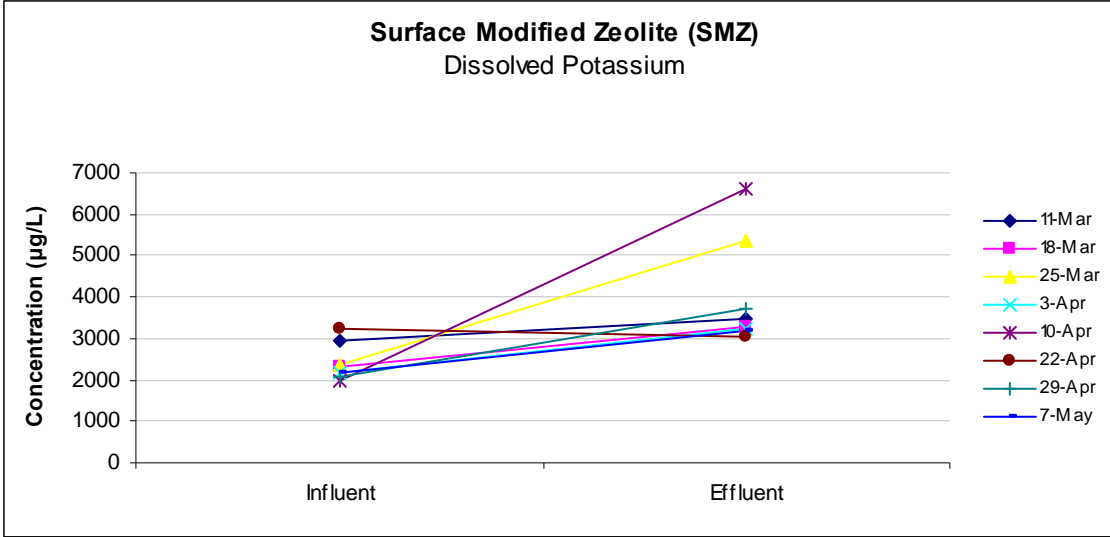
	df	SS	MS	F	Significance F
Regression	1.000	2160195.687	2160195.687	1.358	0.288
Residual	6.000	9544357.813	1590726.302		
Total	7.000	11704553.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	6919.253	2557.350	2.706	0.035	661.642	13176.864	661.642	13176.864
X Variable 1	-1.219	1.046	-1.165	0.288	-3.779	1.341	-3.779	1.341

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	3315.247	141.753
2	4110.177	-824.177
3	4032.147	1302.853
4	4283.306	-1045.306
5	4529.588	2092.412
6	2951.921	104.079
7	4382.062	-666.062
8	4273.552	-1105.552





# Total Na

SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.536
R Square	0.287
Adjusted R Square	0.188
Standard Error	5312.601
Observations	8.000

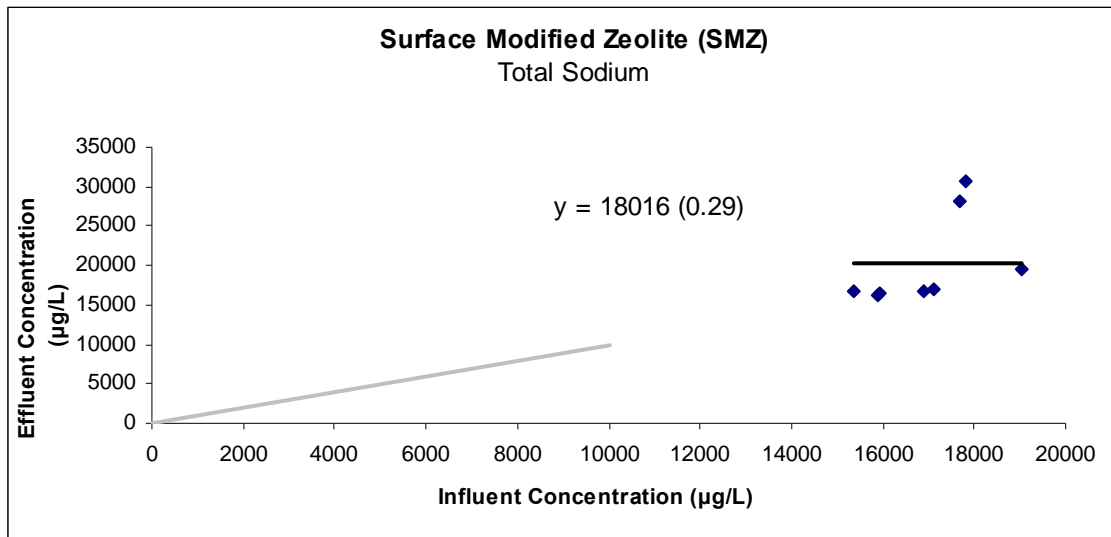
## ANOVA

	df	SS	MS	F	Significance F
Regression	1.000	68222693.094	68222693.094	2.417	0.171
Residual	6.000	169342346.781	28223724.463		
Total	7.000	237565039.875			

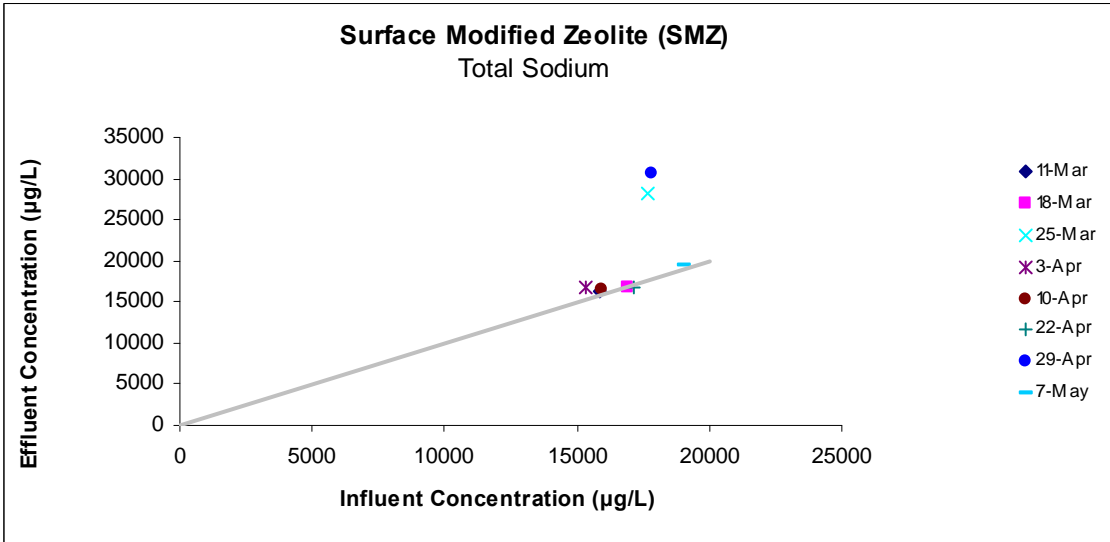
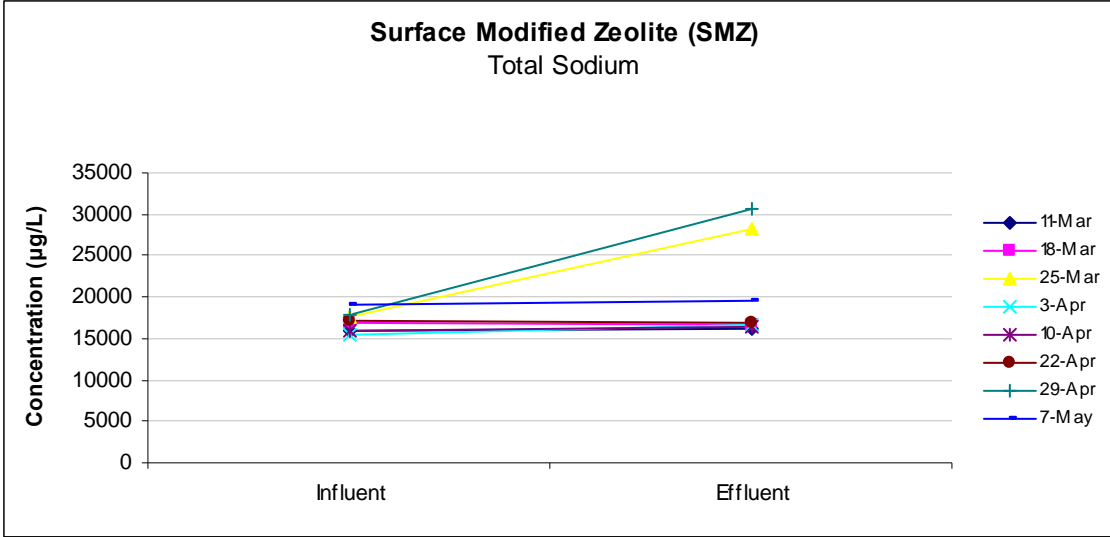
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-23295.768	28023.604	-0.831	0.438	-91867.058	45275.522	-91867.058	45275.522
X Variable 1	2.562	1.648	1.555	0.171	-1.470	6.594	-1.470	6.594

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	17376.928	-1100.928
2	20020.640	-3352.640
3	22005.986	6188.014
4	18065.318	643.682
5	17535.755	-1007.755
6	20550.919	-3684.919
7	22359.506	8260.494
8	25489.948	-5945.948







# Dissolved Na

SMZ

## SUMMARY OUTPUT

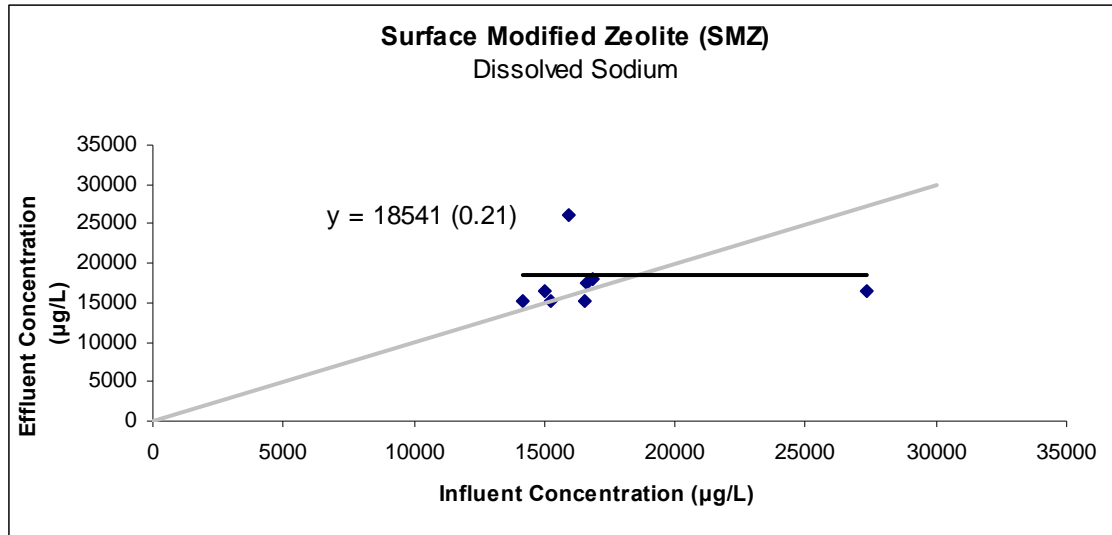
Regression Statistics	
Multiple R	0.068
R Square	0.005
Adjusted R Square	-0.161
Standard Error	3922.204
Observations	8.000

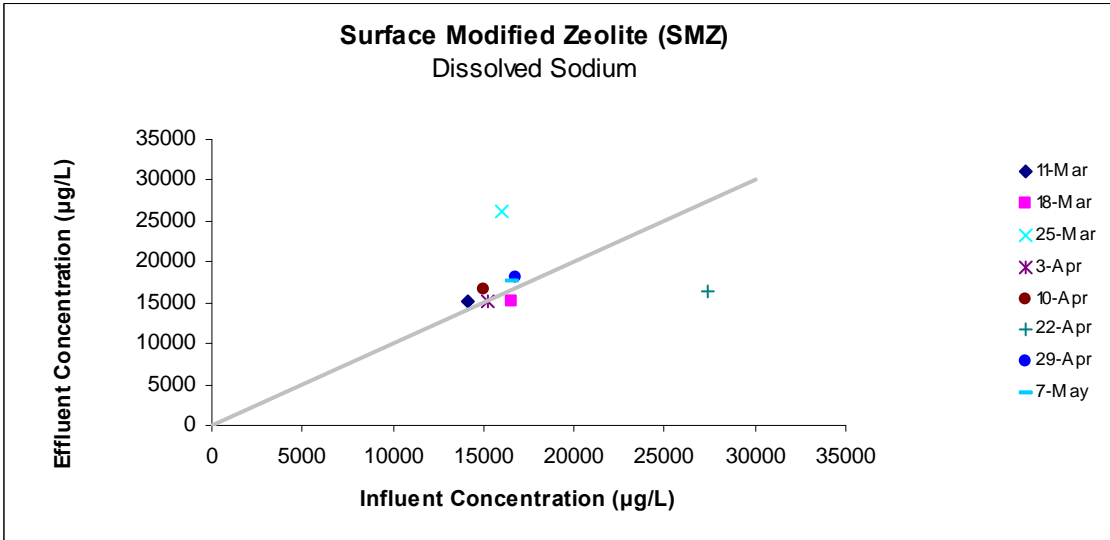
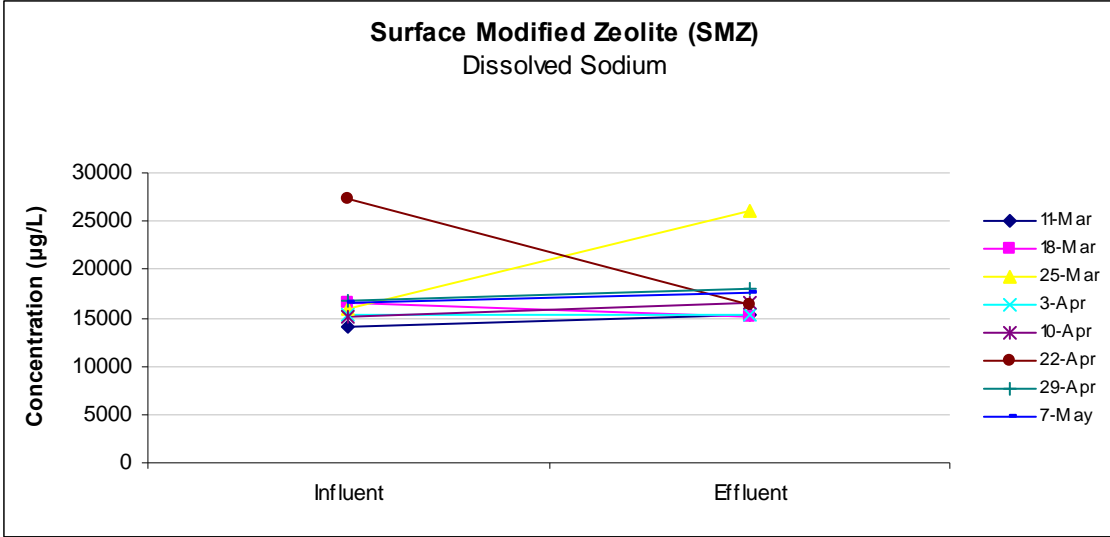
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	424562.430	424562.430	0.028	0.874
Residual	6.000	92302085.070	15383680.845		
Total	7.000	92726647.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	18541.200	6247.265	2.968	0.025	3254.692	33827.707	3254.692	33827.707
X Variable 1	-0.059	0.354	-0.166	0.874	-0.925	0.807	-0.925	0.807

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	17708.065	-2496.065
2	17569.316	-2421.316
3	17603.180	8531.820
4	17643.629	-2383.629
5	17659.150	-1116.150
6	16934.426	-539.426
7	17551.855	445.145
8	17564.378	-20.378





# Total Cr

SMZ

## SUMMARY OUTPUT

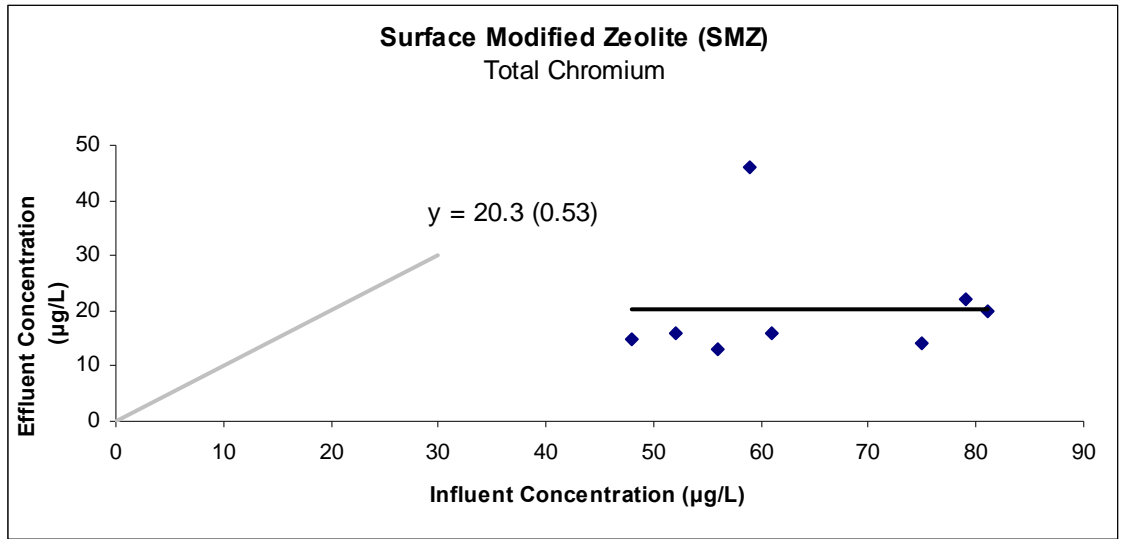
Regression Statistics	
Multiple R	0.031
R Square	0.001
Adjusted R Square	-0.166
Standard Error	11.695
Observations	8.000

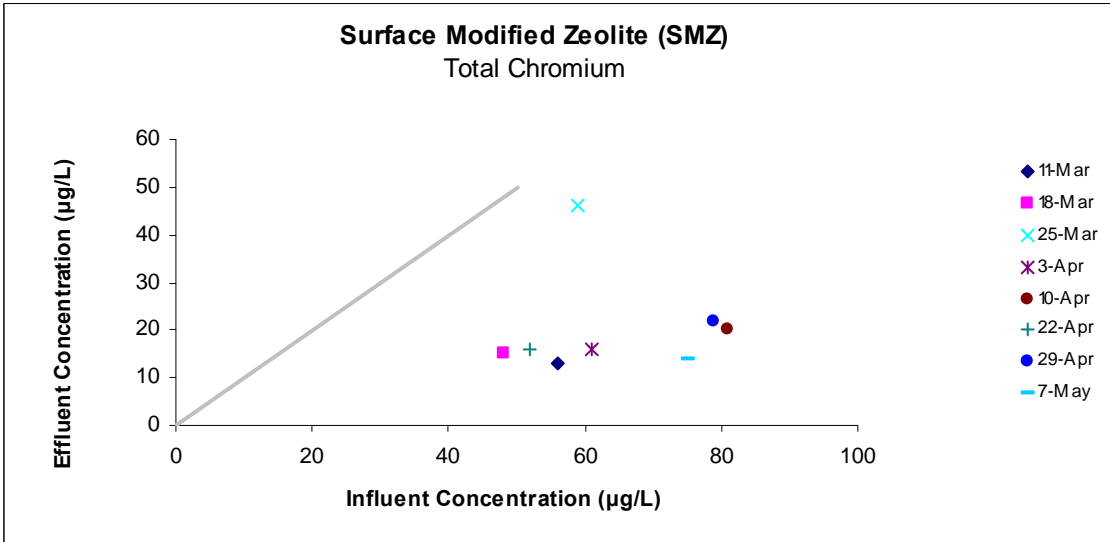
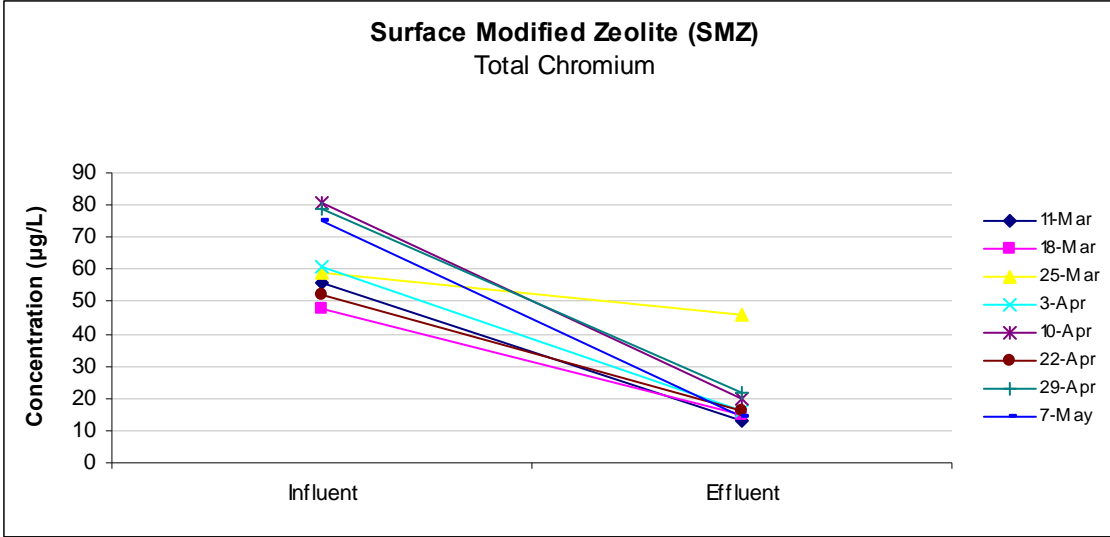
ANOVA						
	df	SS	MS	F	Significance F	
Regression	1.000	0.808	0.808	0.006	0.941	
Residual	6.000	820.692	136.782			
Total	7.000	821.500				

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	18.544	22.577	0.821	0.443	-36.699	73.788	-36.699	73.788
X Variable 1	0.027	0.347	0.077	0.941	-0.824	0.877	-0.824	0.877

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	20.040	-7.040
2	19.826	-4.826
3	20.120	25.880
4	20.173	-4.173
5	20.707	-0.707
6	19.933	-3.933
7	20.654	1.346
8	20.547	-6.547





# Dissolved Cr

SMZ

## SUMMARY OUTPUT

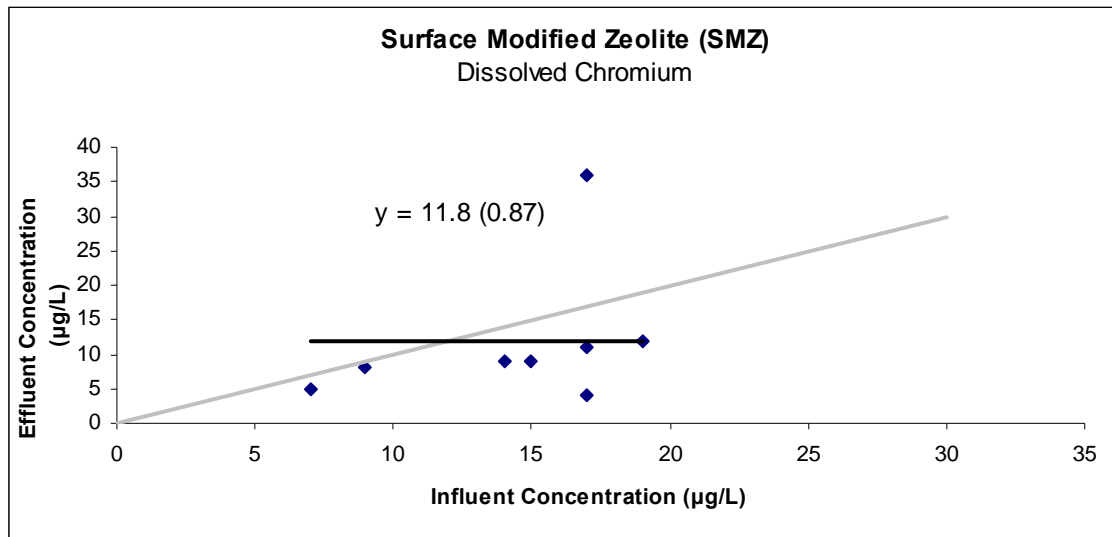
Regression Statistics	
Multiple R	0.370
R Square	0.137
Adjusted R Square	-0.007
Standard Error	10.200
Observations	8.000

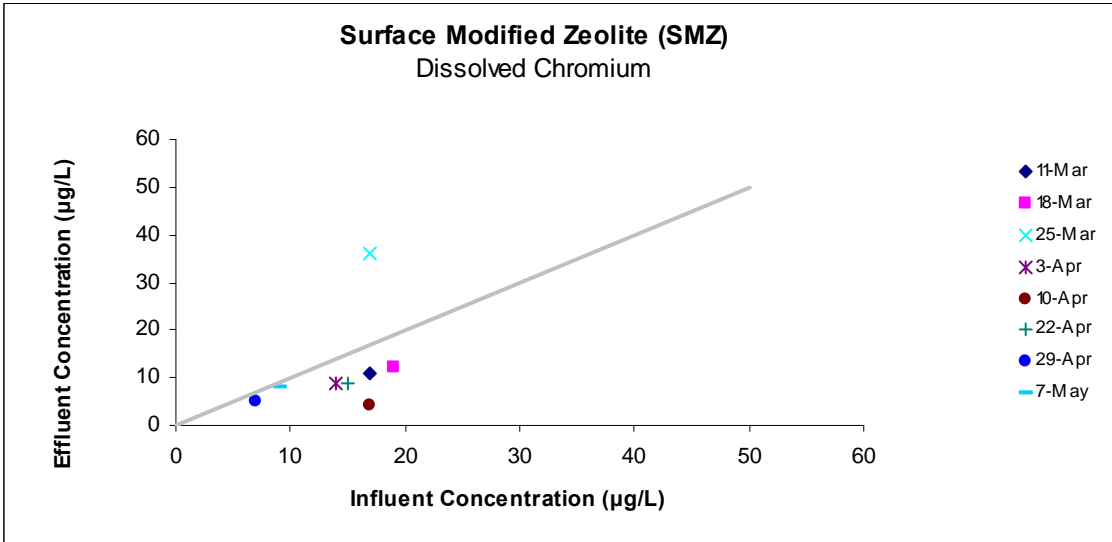
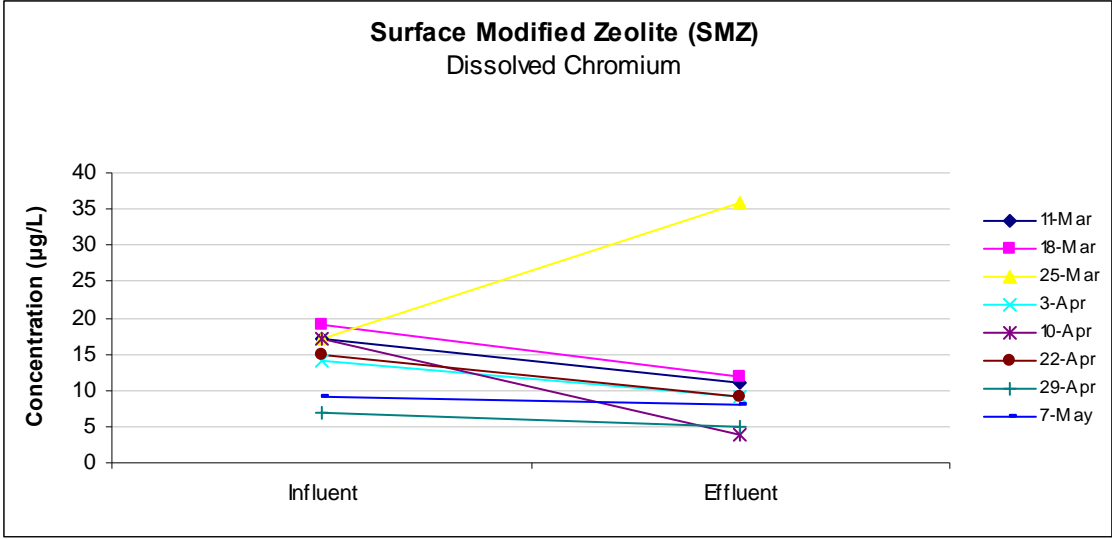
ANOVA						
	df	SS	MS	F	Significance F	
Regression	1.000	99.210	99.210	0.953	0.367	
Residual	6.000	624.290	104.048			
Total	7.000	723.500				

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-1.012	13.558	-0.075	0.943	-34.187	32.163	-34.187	32.163
X Variable 1	0.888	0.909	0.976	0.367	-1.337	3.112	-1.337	3.112

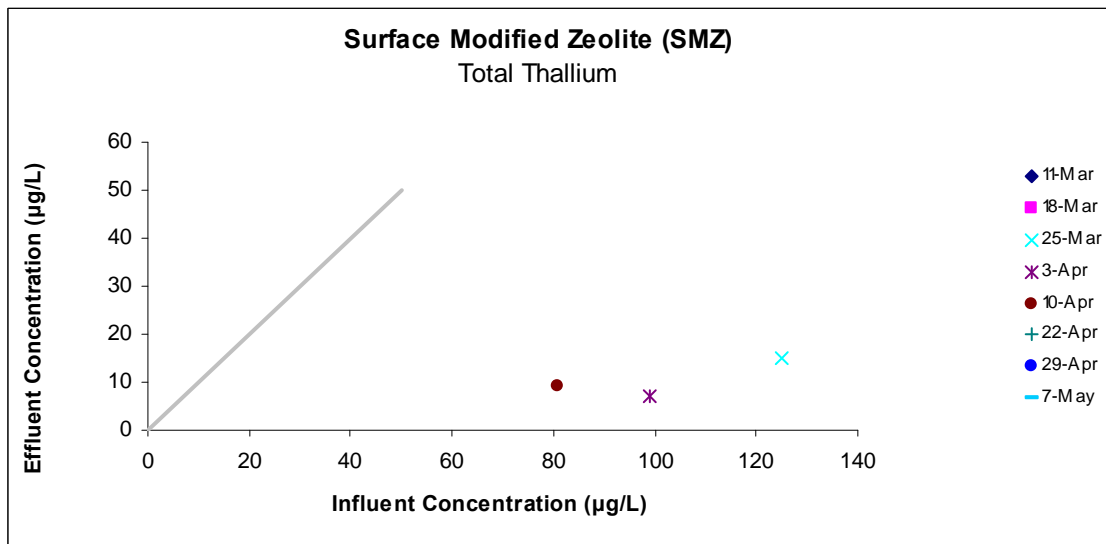
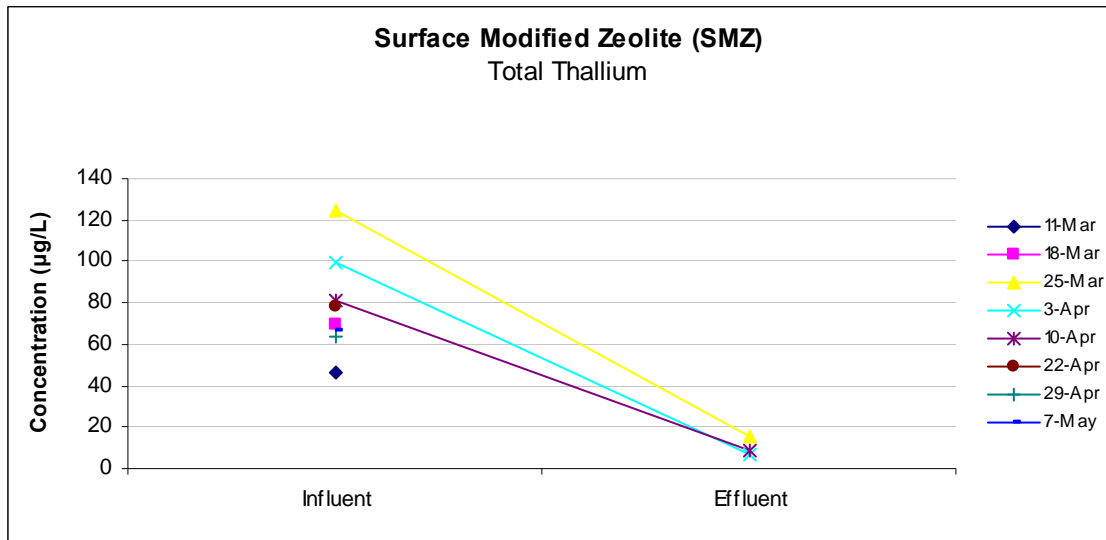
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	14.080	-3.080
2	15.856	-3.856
3	14.080	21.920
4	11.417	-2.417
5	14.080	-10.080
6	12.305	-3.305
7	5.203	-0.203
8	6.978	1.022



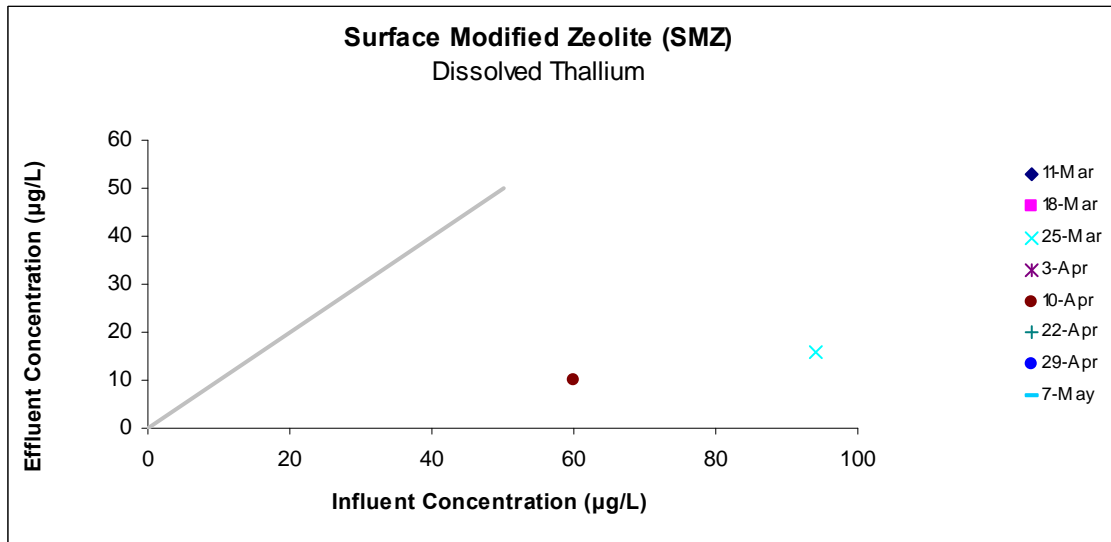
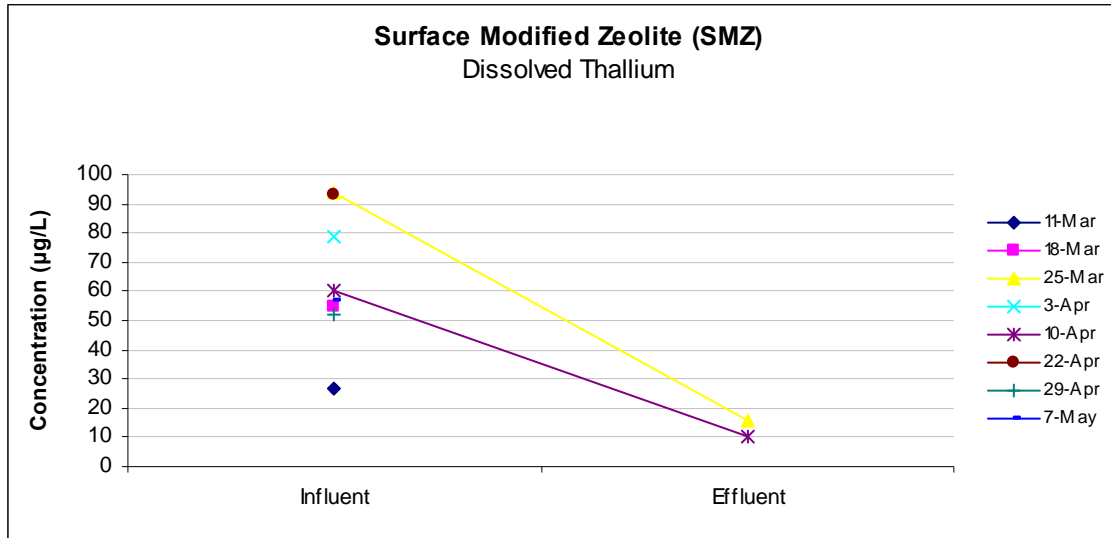


Total Tl





Dissolved Tl



# Total Sb

SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.871
R Square	0.759
Adjusted R Square	0.719
Standard Error	11.336
Observations	8.000

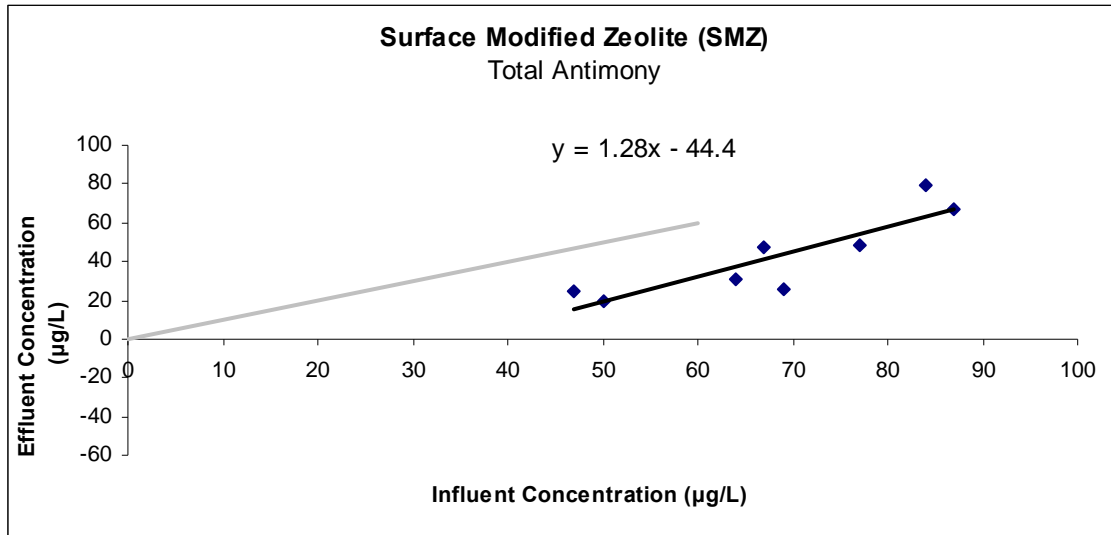
## ANOVA

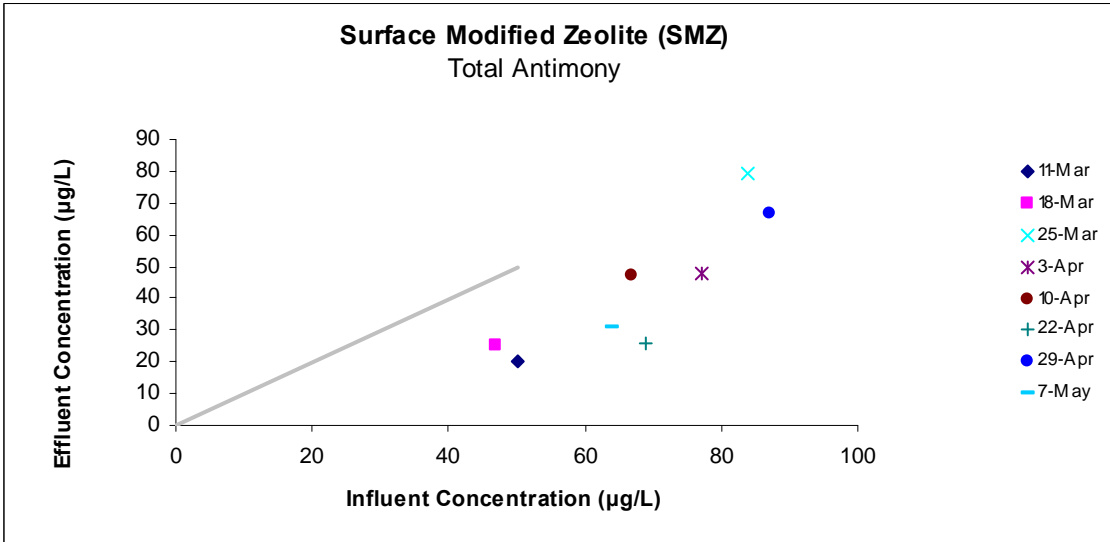
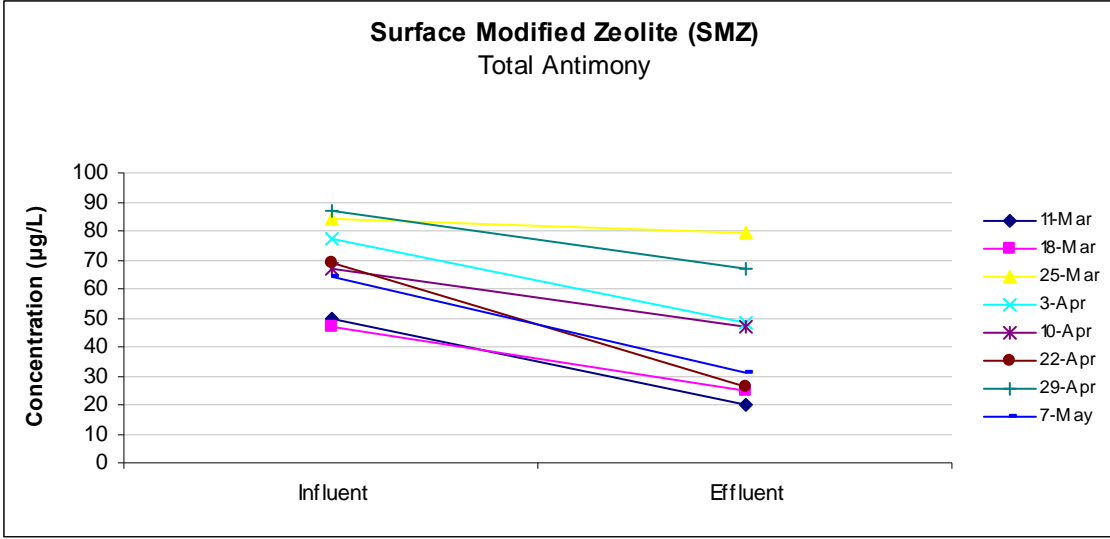
	df	SS	MS	F	Significance F
Regression	1.000	2427.815	2427.815	18.882	0.005
Residual	6.000	771.060	128.510		
Total	7.000	3198.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-44.353	20.465	-2.167	0.073	-84.429	5.723	-94.429	5.723
X Variable 1	1.280	0.295	4.346	0.005	0.560	2.001	0.560	2.001

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	19.668	0.332
2	15.826	9.174
3	63.201	15.799
4	54.239	-6.239
5	41.435	5.565
6	43.995	-17.995
7	67.043	-0.043
8	37.593	-6.593





# Dissolved Sb

SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.482
R Square	0.232
Adjusted R Square	0.079
Standard Error	15.731
Observations	7.000

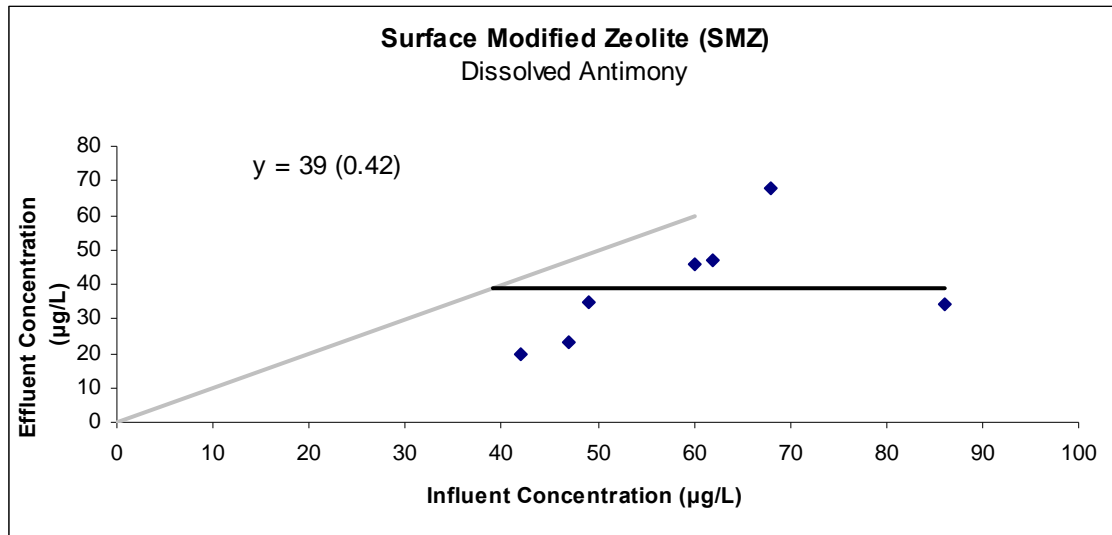
## ANOVA

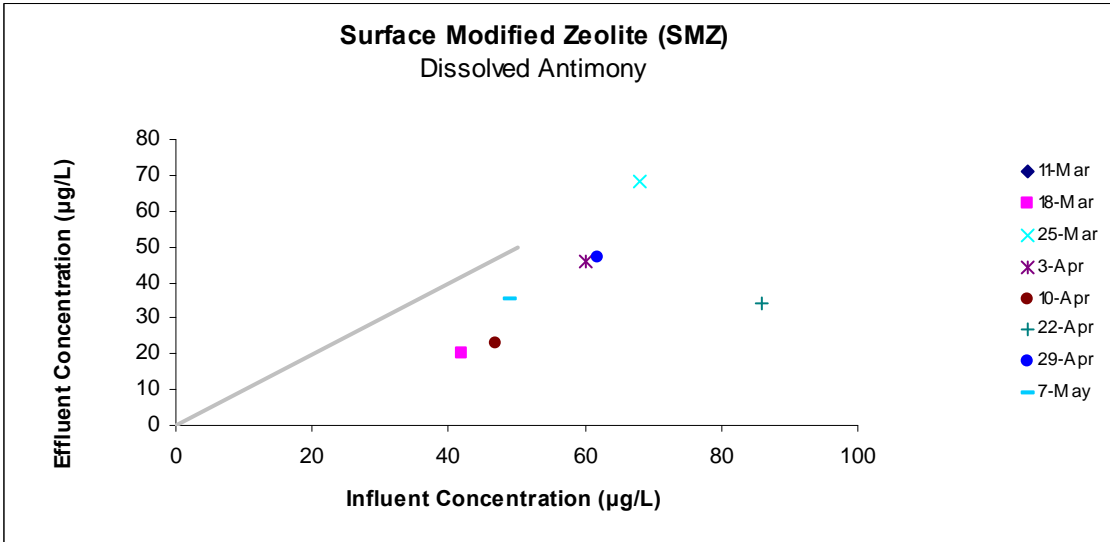
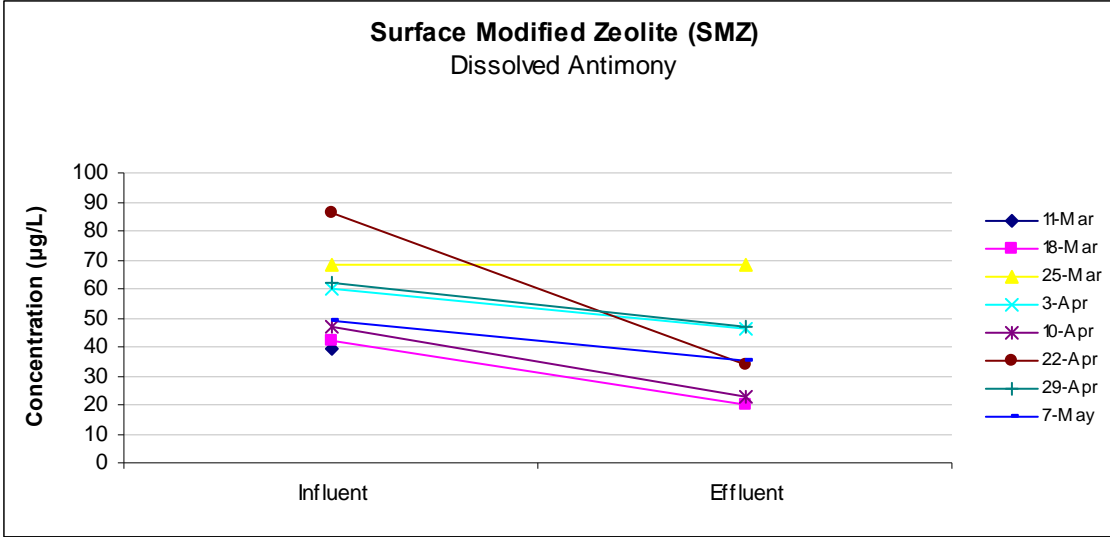
	df	SS	MS	F	Significance F
Regression	1.000	374.721	374.721	1.514	0.273
Residual	5.000	1237.279	247.456		
Total	6.000	1612.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	7.873	25.984	0.303	0.774	-58.920	74.667	-58.920	74.667
X Variable 1	0.526	0.428	1.231	0.273	-0.573	1.626	-0.573	1.626

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	29.978	-9.978
2	43.661	24.339
3	39.451	6.549
4	32.609	-9.609
5	53.135	-19.135
6	40.504	6.496
7	33.662	1.338





## R-SMZ

### Total As

R-SMZ

#### SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0.900
R Square	0.809
Adjusted R Square	0.643
Standard Error	17.908
Observations	7.000

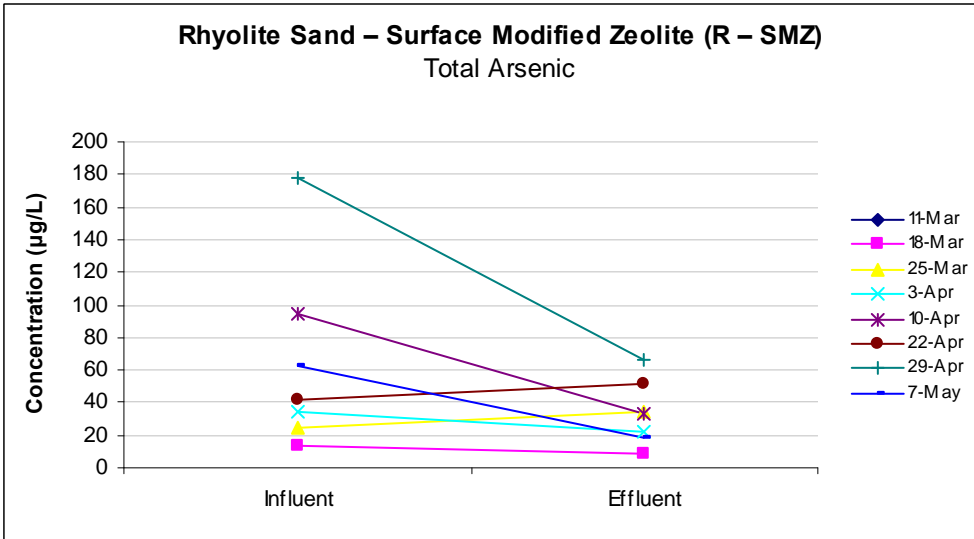
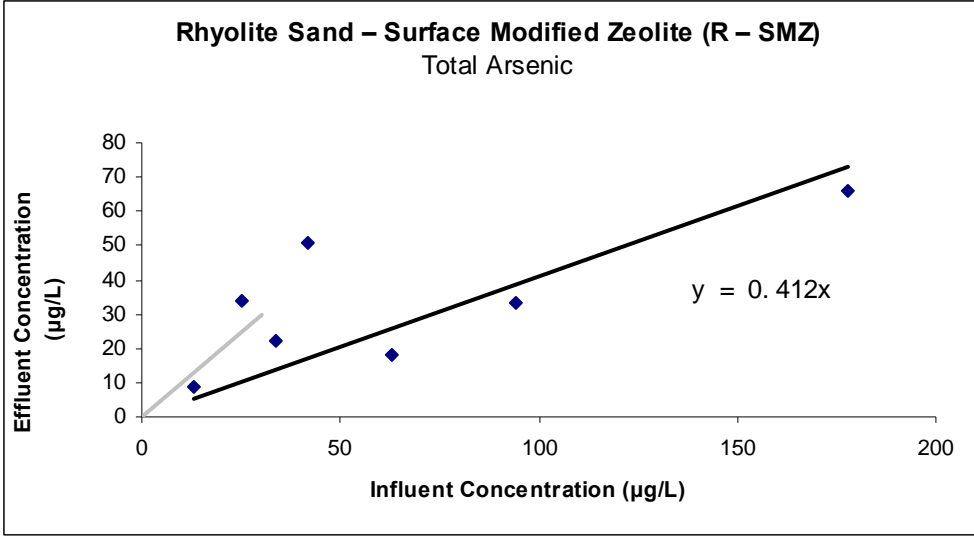
#### ANOVA

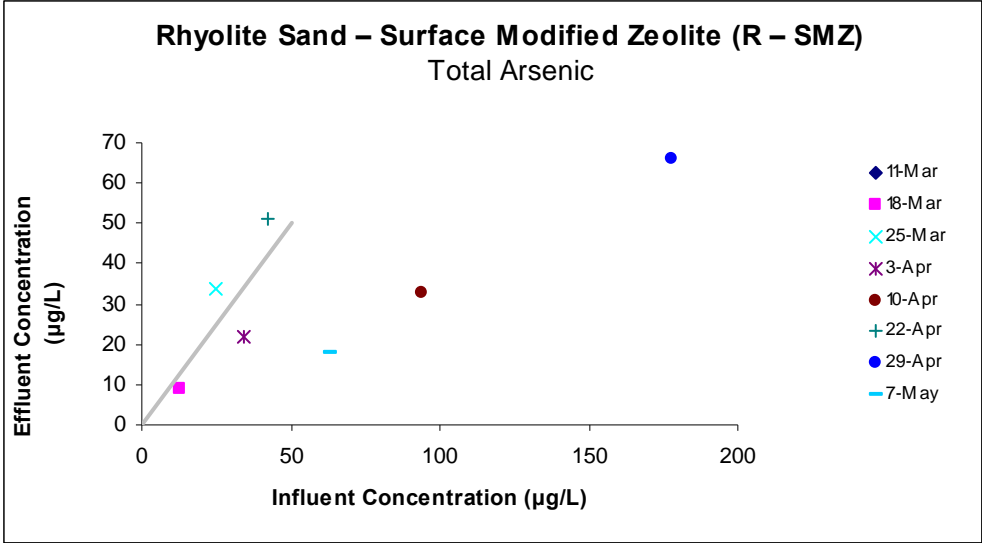
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1.000	8166.821	8166.821	25.466	0.004
Residual	6.000	1924.179	320.696		
Total	7.000	10091.000			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	0.412	0.082	5.046	0.002	0.212	0.611	0.212	0.611

#### RESIDUAL OUTPUT

<i>Observation</i>	<i>Predicted Y</i>	<i>Residuals</i>
1	5.351	3.649
2	10.290	23.710
3	13.995	8.005
4	38.692	-5.692
5	17.288	33.712
6	73.267	-7.267
7	25.932	-7.932







# Dissolved As

R-SMZ

## SUMMARY OUTPUT

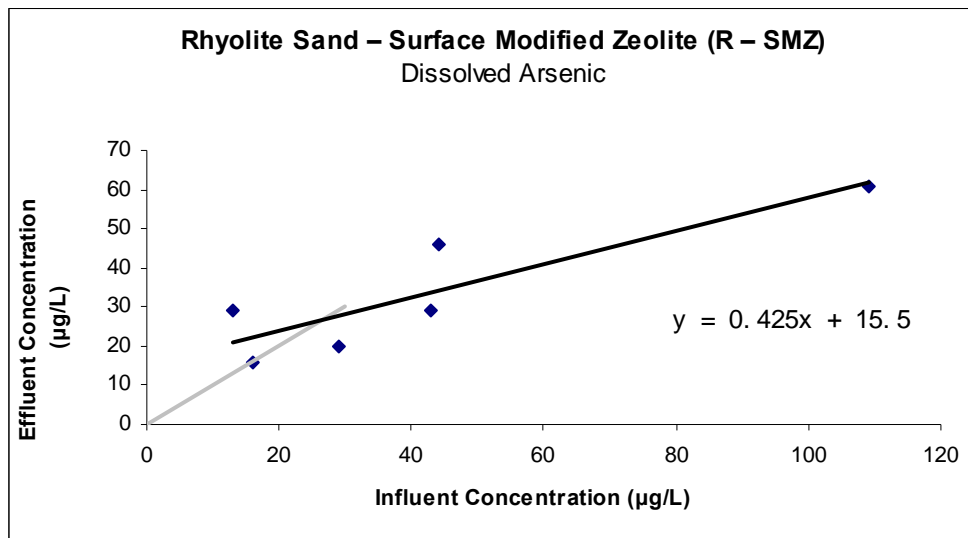
Regression Statistics	
Multiple R	0.879
R Square	0.773
Adjusted R Square	0.716
Standard Error	9.045
Observations	6.000

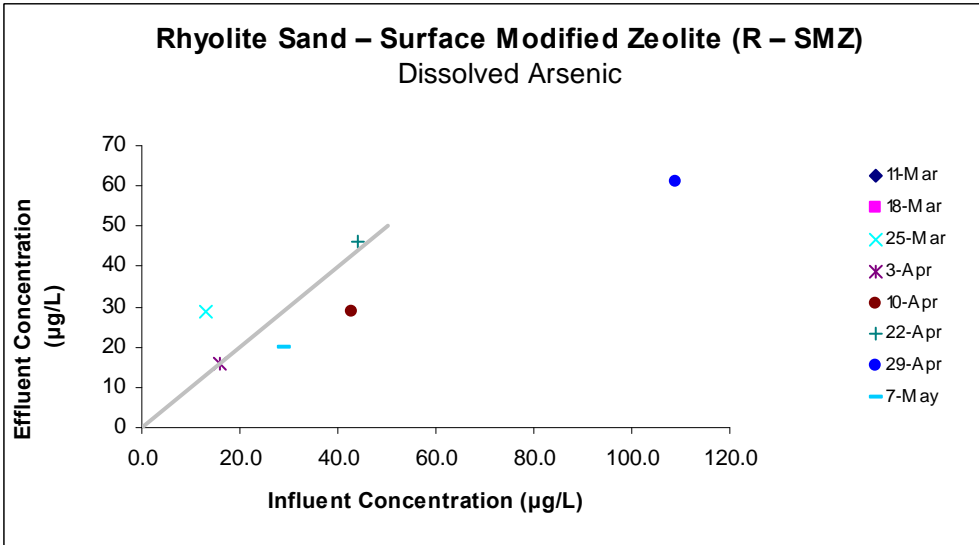
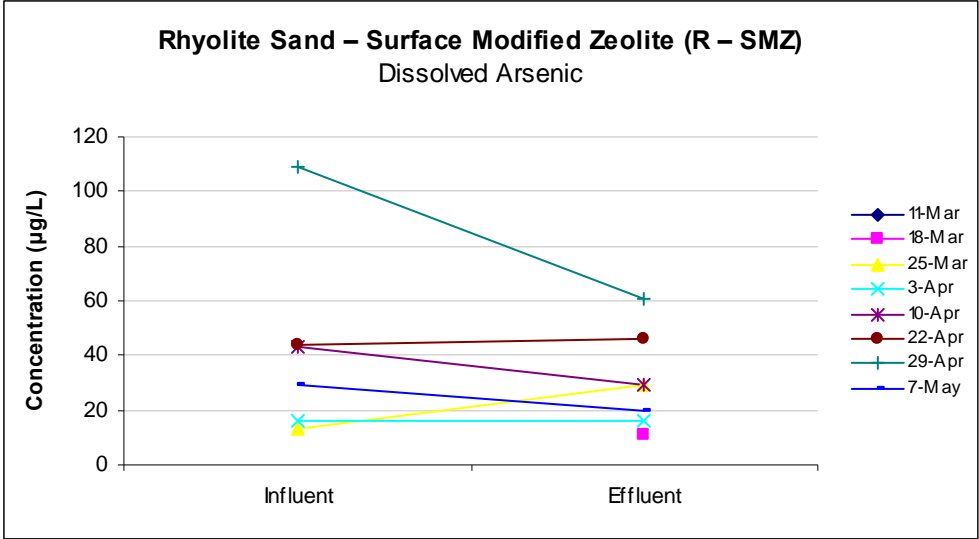
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	1114.259	1114.259	13.620	0.021
Residual	4.000	327.241	81.810		
Total	5.000	1441.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	15.524	6.112	2.540	0.064	-1.447	32.494	-1.447	32.494
X Variable 1	0.425	0.115	3.691	0.021	0.105	0.744	0.105	0.744

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	21.044	7.956
2	22.318	-6.318
3	33.783	-4.783
4	34.208	11.792
5	61.809	-0.809
6	27.838	-7.838





# Total Al

R-SMZ

## SUMMARY OUTPUT

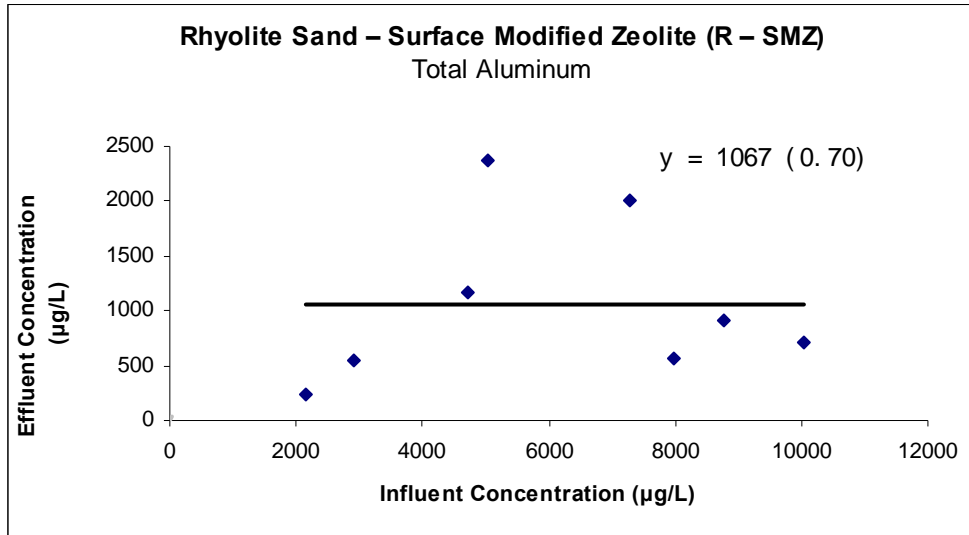
Regression Statistics	
Multiple R	0.119
R Square	0.014
Adjusted R Square	-0.150
Standard Error	804.925
Observations	8.000

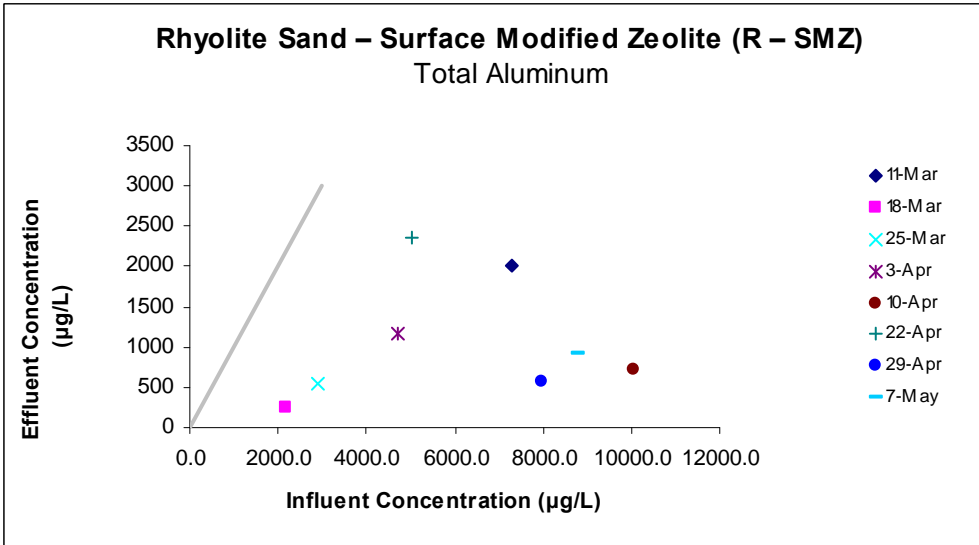
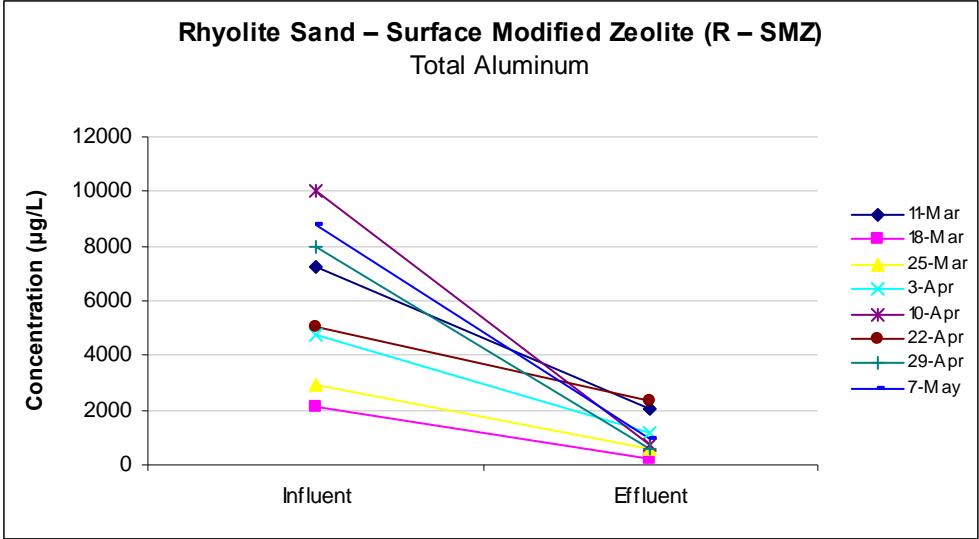
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	55813.143	55813.143	0.086	0.779
Residual	6.000	3887426.357	647904.393		
Total	7.000	3943239.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	874.782	714.851	1.224	0.267	-874.395	2623.959	-874.395	2623.959
X Variable 1	0.031	0.107	0.294	0.779	-0.231	0.294	-0.231	0.294

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	1103.793	910.207
2	942.620	-702.620
3	966.355	-414.355
4	1023.710	147.290
5	1190.739	-477.739
6	1033.626	1331.374
7	1126.049	-564.049
8	1151.107	-230.107





# Dissolved Al

R-SMZ

## SUMMARY OUTPUT

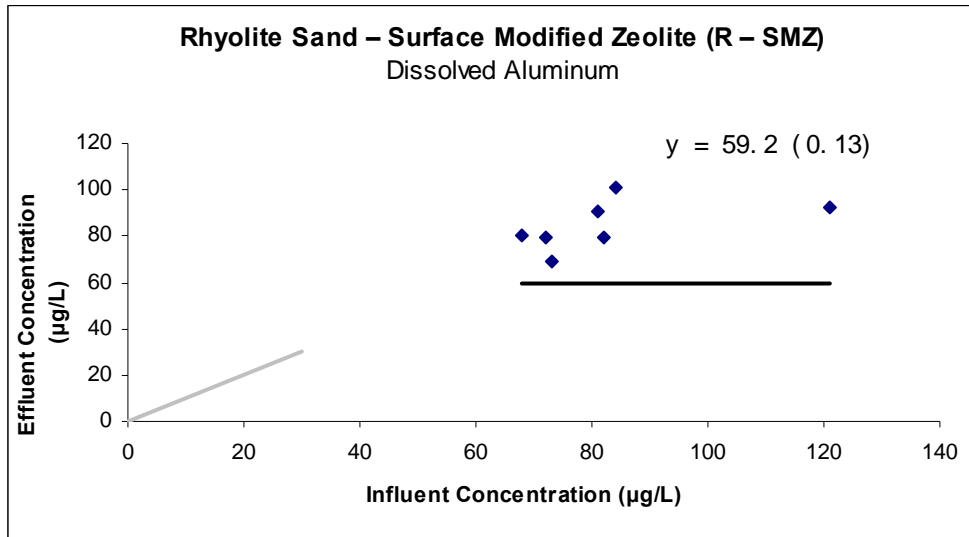
Regression Statistics	
Multiple R	0.504
R Square	0.254
Adjusted R Square	0.105
Standard Error	10.160
Observations	7.000

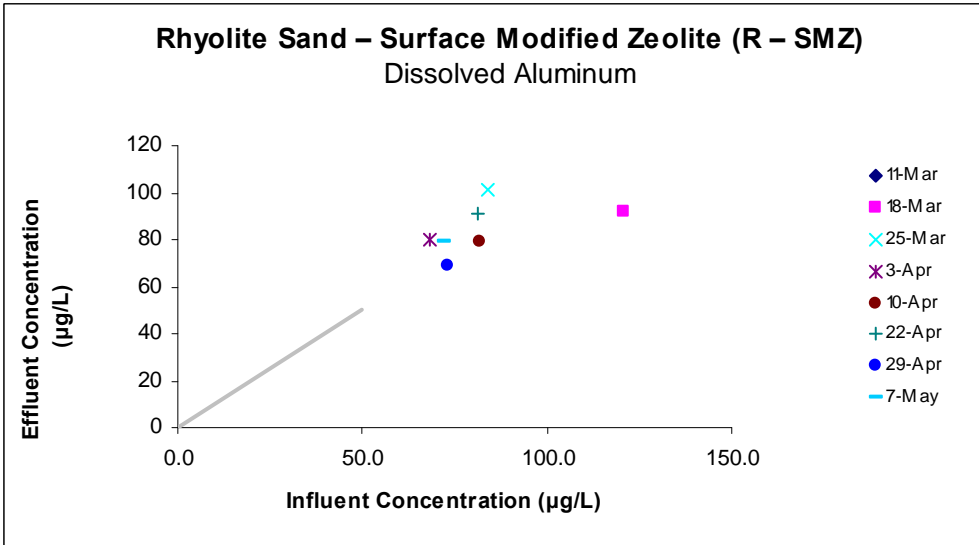
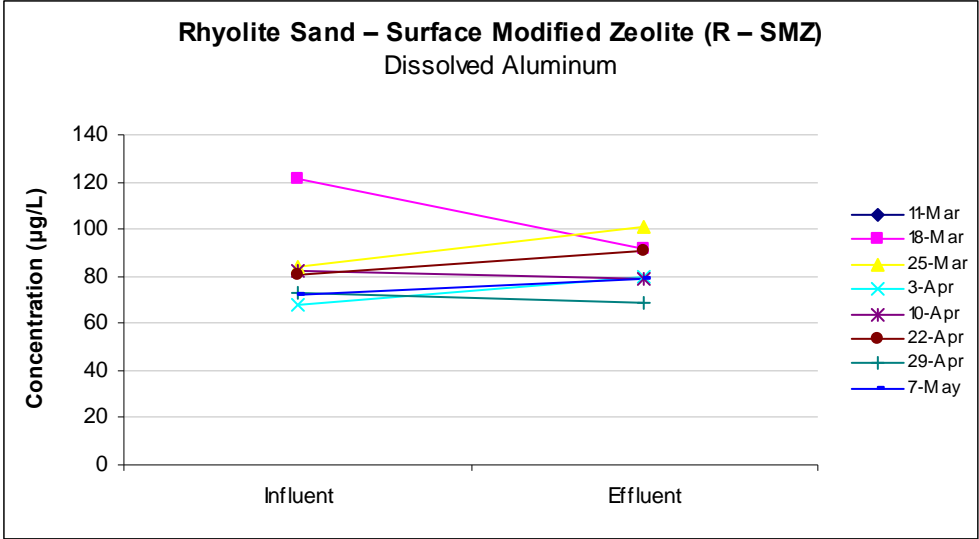
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	175.595	175.595	1.701	0.249
Residual	5.000	516.119	103.224		
Total	6.000	691.714			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	59.170	19.743	2.997	0.030	8.417	109.922	8.417	109.922
X Variable 1	0.304	0.233	1.304	0.249	-0.295	0.904	-0.295	0.904

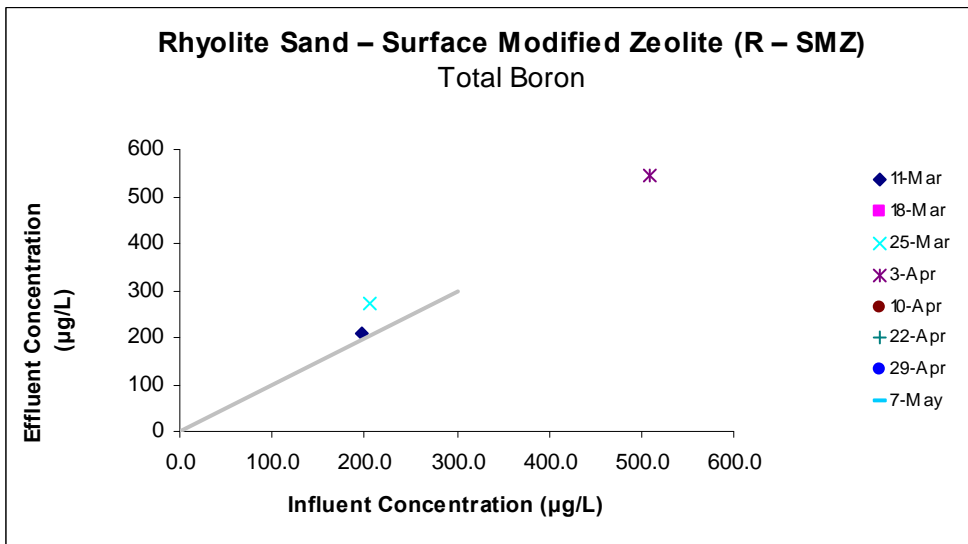
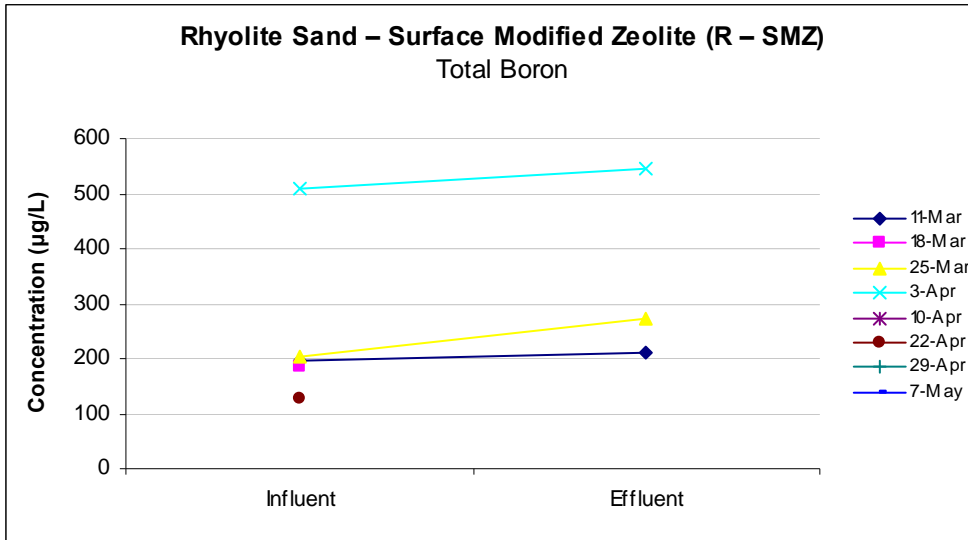
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	95.993	-3.993
2	84.733	16.267
3	79.864	0.136
4	84.124	-5.124
5	83.820	7.180
6	81.385	-12.385
7	81.081	-2.081

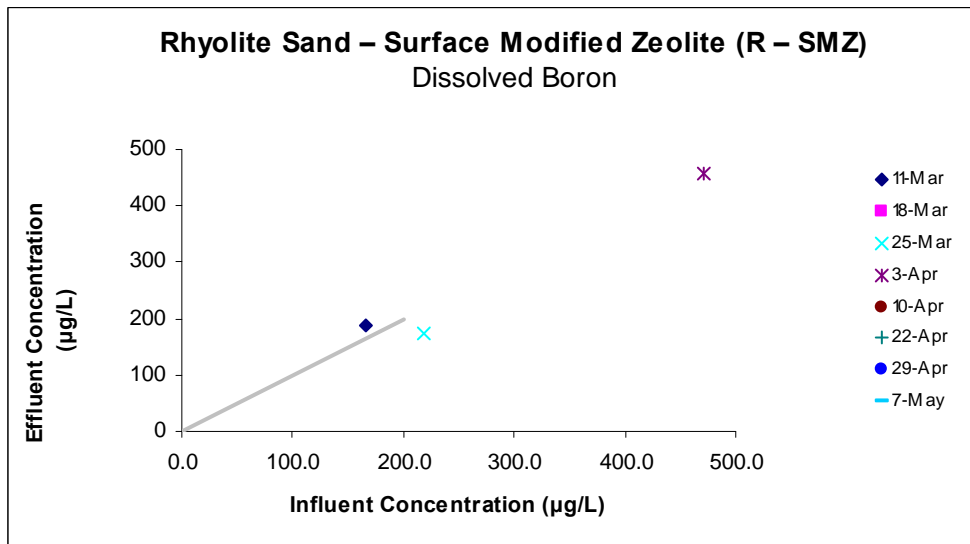
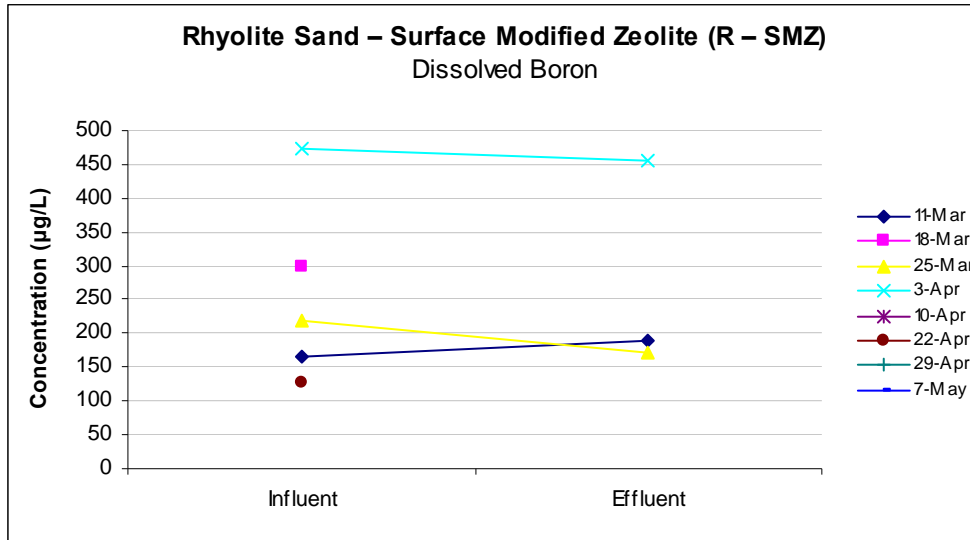




Total B



Dissolved B





# Total Ca

R-SMZ

## SUMMARY OUTPUT

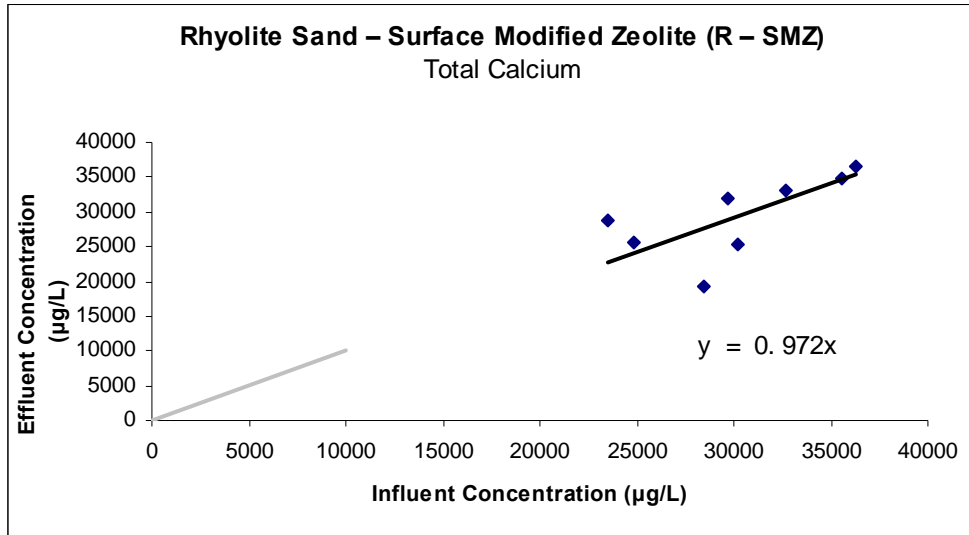
Regression Statistics	
Multiple R	0.990
R Square	0.981
Adjusted R Square	0.838
Standard Error	4448.727
Observations	8.000

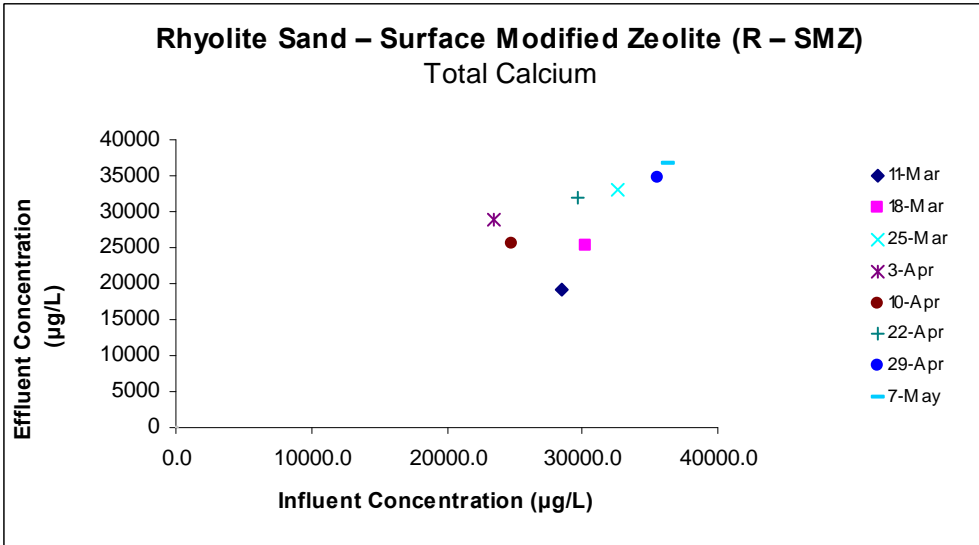
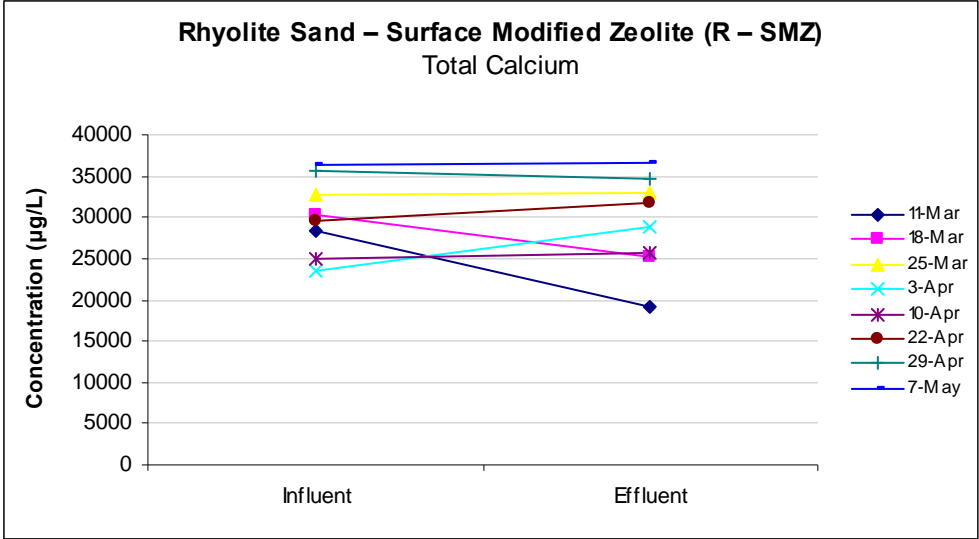
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	7009067493.300	7009067493.300	354.151	0.000
Residual	7.000	138538217.700	19791173.957		
Total	8.000	7147605711.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	0.972	0.052	18.819	0.000	0.850	1.094	0.850	1.094

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	27627.103	-8363.103
2	29366.130	-4184.130
3	31726.308	1317.692
4	22825.095	6029.905
5	24171.407	1499.593
6	28831.494	2978.506
7	34605.569	124.431
8	35253.938	1363.062





# Dissolved Ca

R-SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.547
R Square	0.299
Adjusted R Square	0.183
Standard Error	5186.336
Observations	8.000

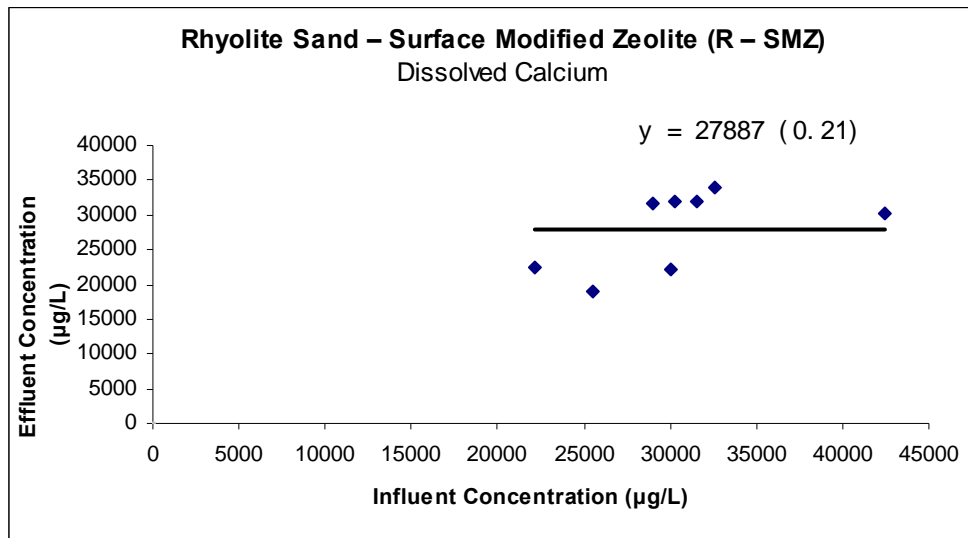
## ANOVA

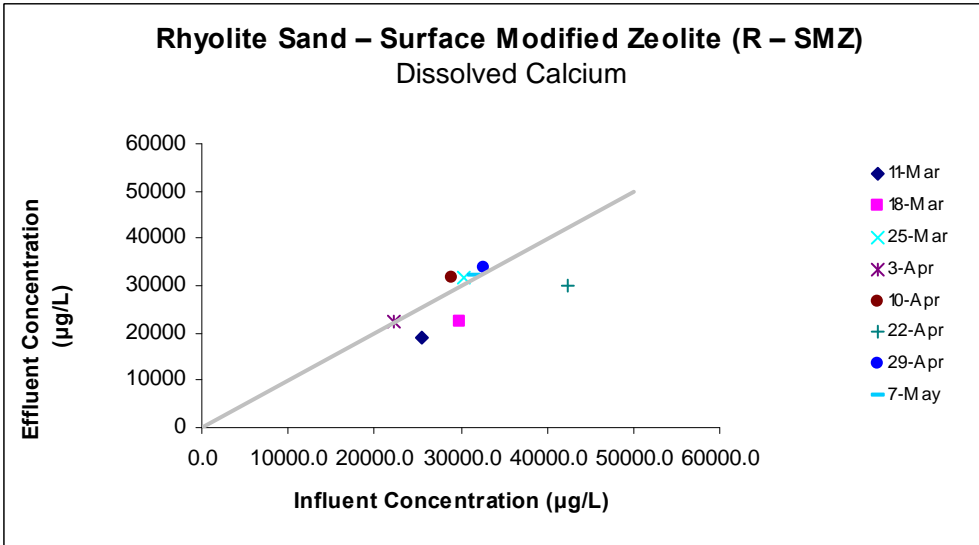
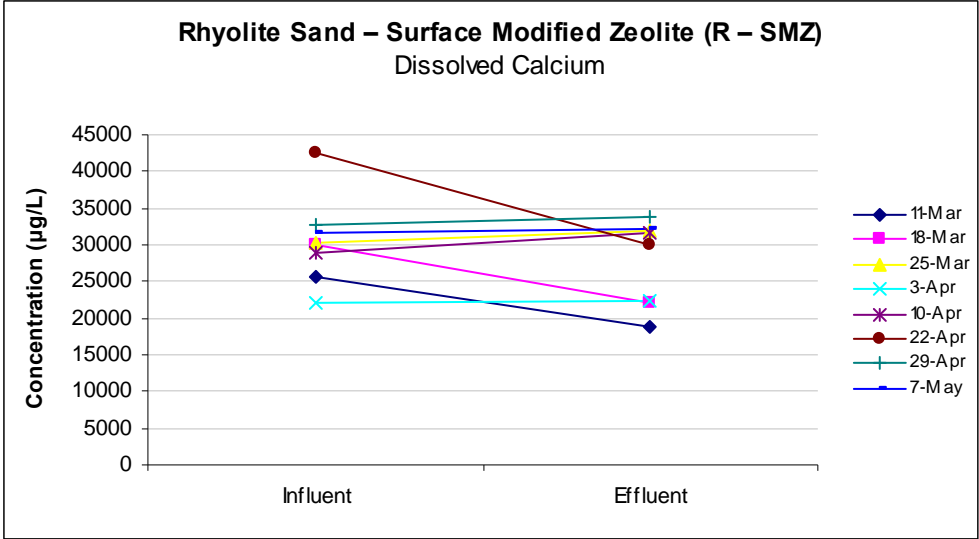
	df	SS	MS	F	Significance F
Regression	1.000	68976285.914	68976285.914	2.564	0.160
Residual	6.000	161388484.961	26898080.827		
Total	7.000	230364770.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	11735.816	10251.313	1.145	0.296	-13348.243	36819.876	-13348.243	36819.876
X Variable 1	0.531	0.331	1.601	0.160	-0.280	1.342	-0.280	1.342

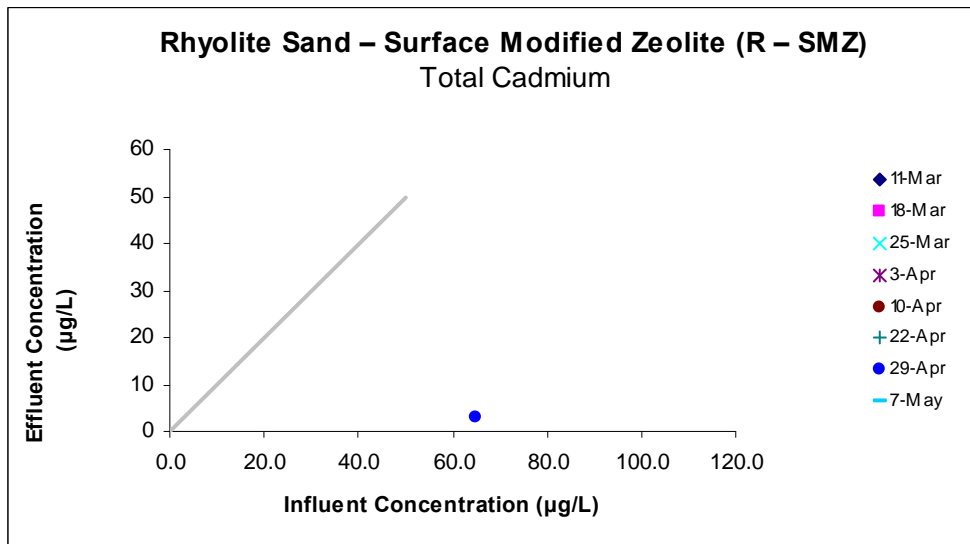
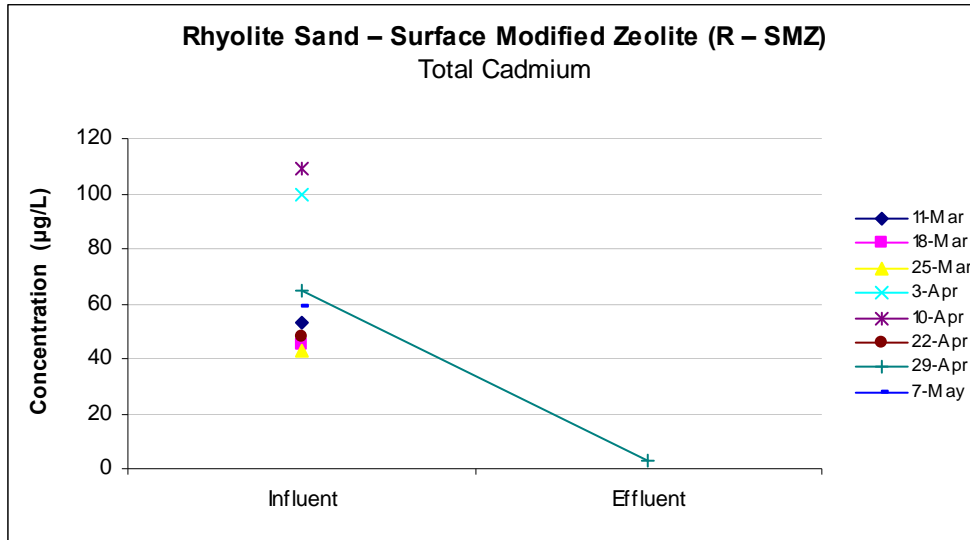
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	25271.797	-6355.797
2	27650.852	-5426.852
3	27800.538	4013.462
4	23491.488	-1053.488
5	27112.619	4532.381
6	34247.128	-4157.128
7	29055.885	4864.115
8	28466.694	3583.306

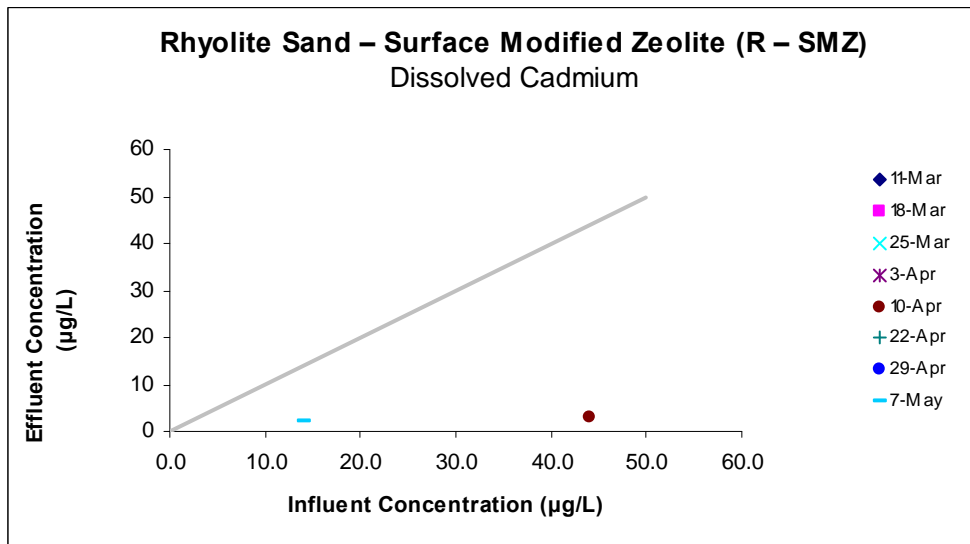
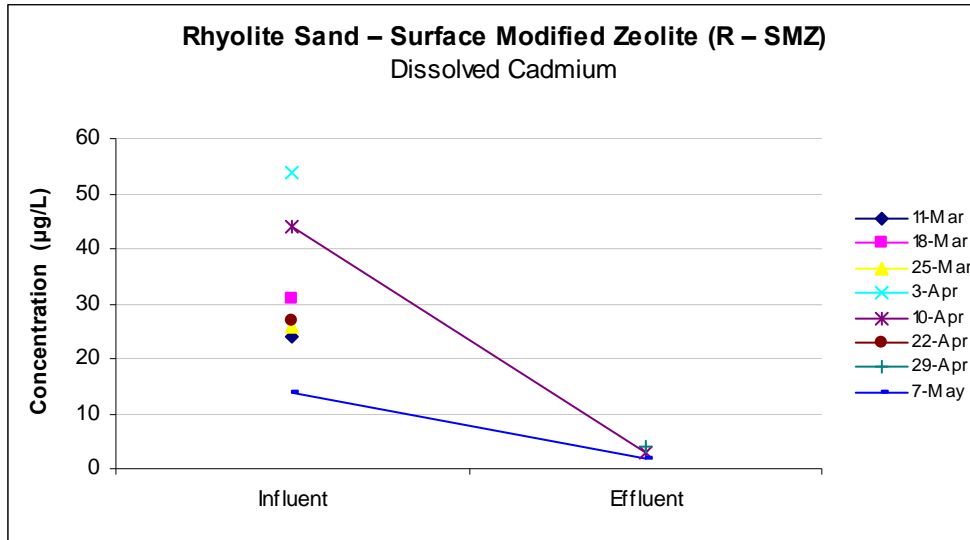




Total Cd



Dissolved Cd



# Total Cu

R-SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.370
R Square	0.137
Adjusted R Square	-0.007
Standard Error	8.492
Observations	8.000

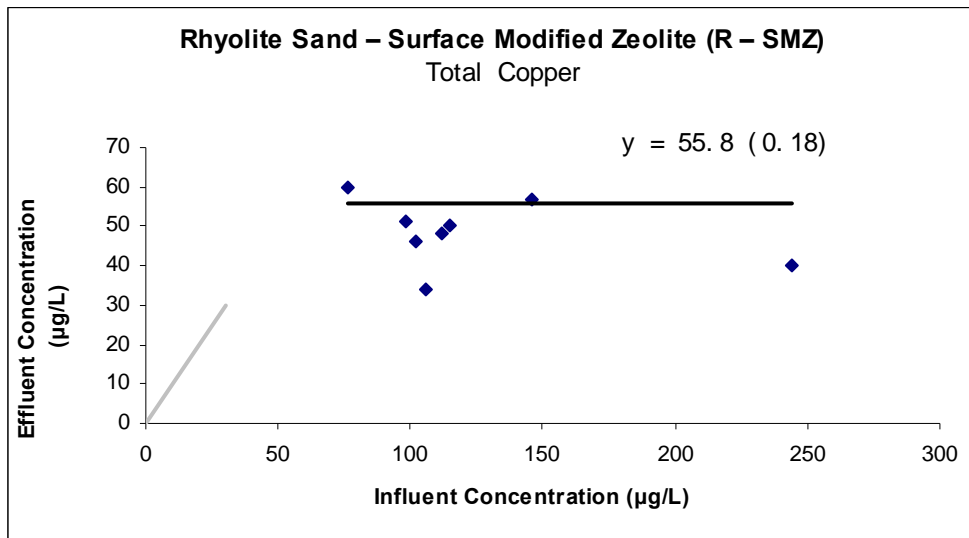
## ANOVA

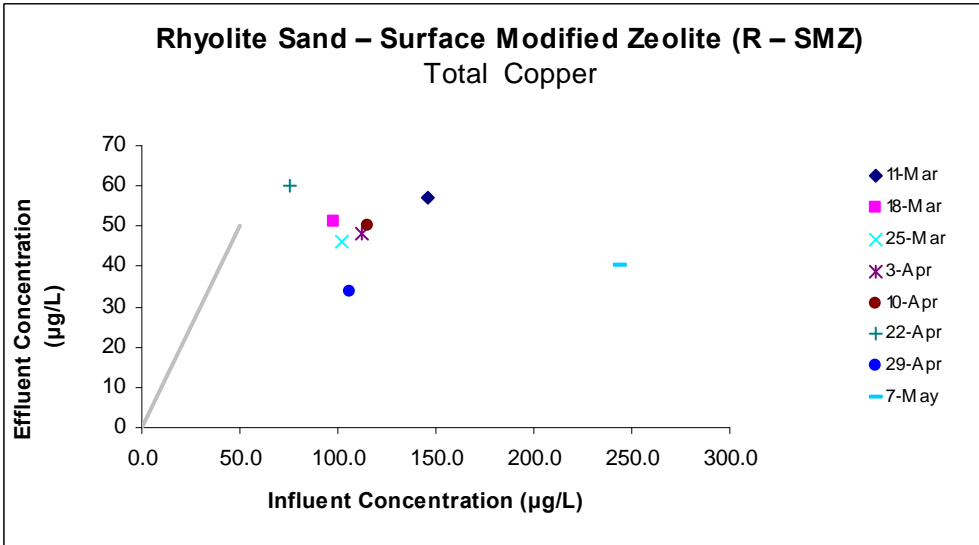
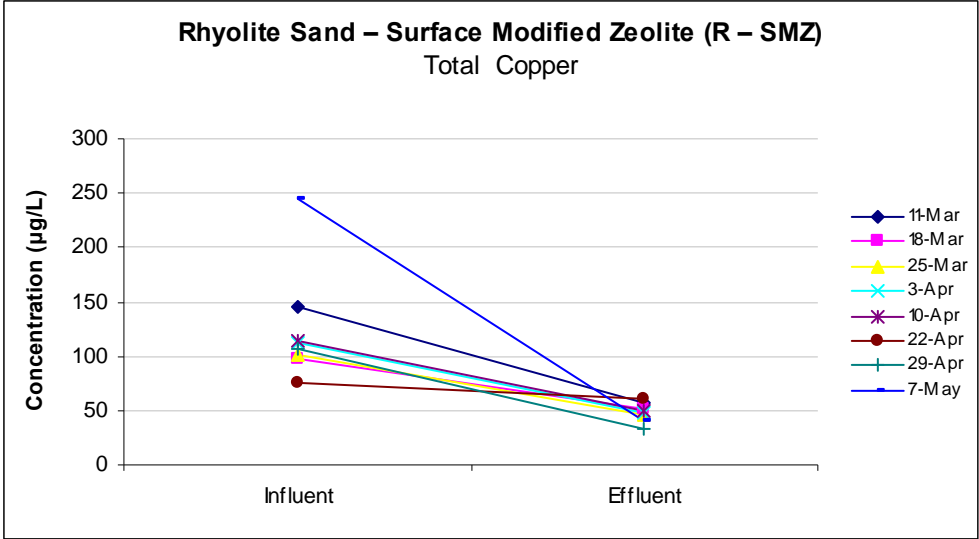
	df	SS	MS	F	Significance F
Regression	1.000	68.765	68.765	0.953	0.367
Residual	6.000	432.735	72.123		
Total	7.000	501.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	55.784	8.279	6.738	0.001	35.525	76.043	35.525	76.043
X Variable 1	-0.060	0.062	-0.976	0.367	-0.212	0.091	-0.212	0.091

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	46.975	10.025
2	49.871	1.129
3	49.630	-3.630
4	49.027	-1.027
5	48.846	1.154
6	51.199	8.801
7	49.389	-15.389
8	41.063	-1.063







# Dissolved Cu

R-SMZ

## SUMMARY OUTPUT

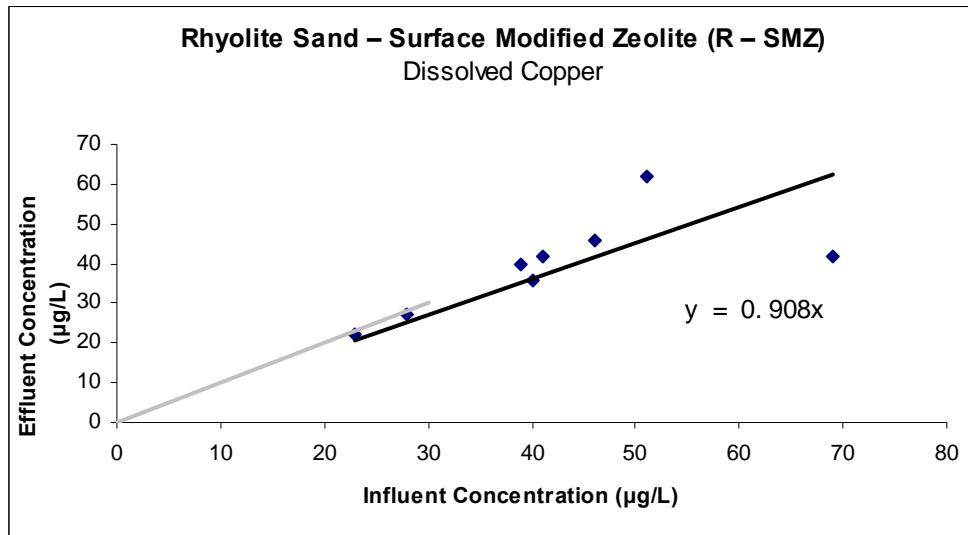
Regression Statistics	
Multiple R	0.972
R Square	0.946
Adjusted R Square	0.803
Standard Error	10.270
Observations	8.000

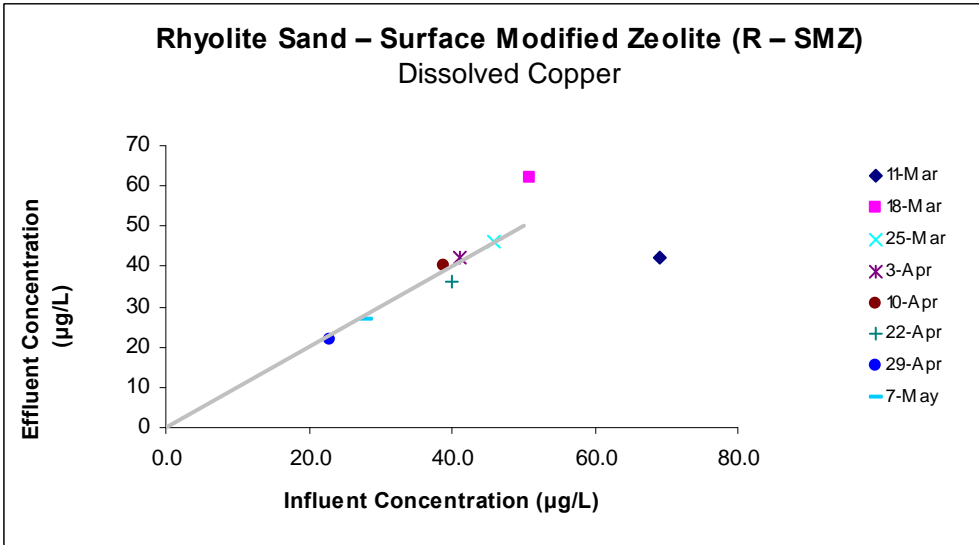
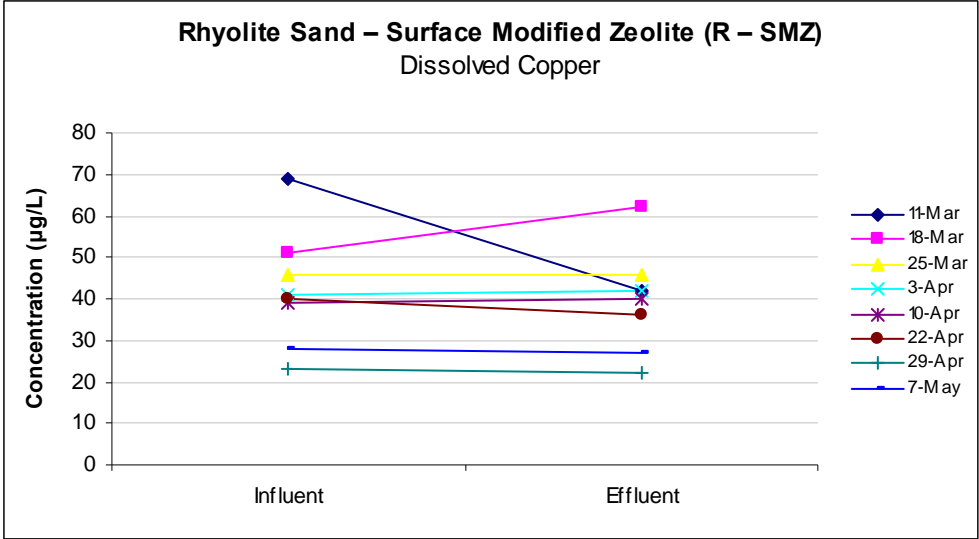
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	12858.693	12858.693	121.915	0.000
Residual	7.000	738.307	105.472		
Total	8.000	13597.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	0.908	0.082	11.042	0.000	0.714	1.103	0.714	1.103

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	62.659	-20.659
2	46.313	15.687
3	41.773	4.227
4	37.232	4.768
5	35.416	4.584
6	36.324	-0.324
7	20.886	1.114
8	25.427	1.573





# Total Fe

R-SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.070
R Square	0.005
Adjusted R Square	-0.161
Standard Error	322.389
Observations	8.000

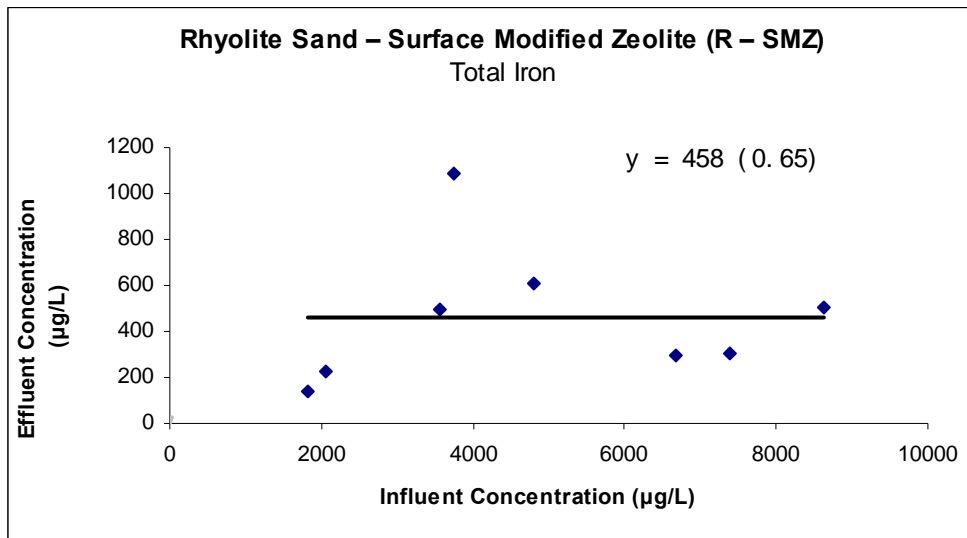
## ANOVA

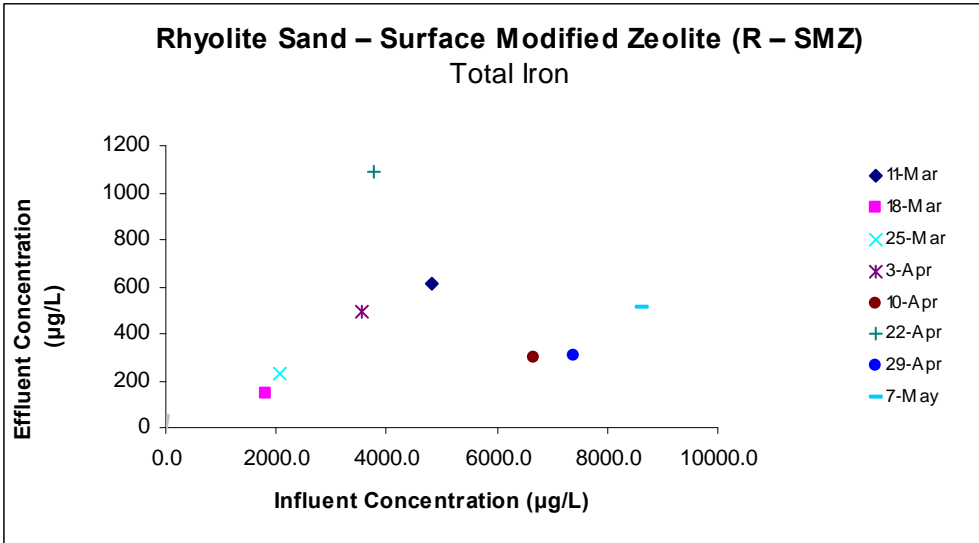
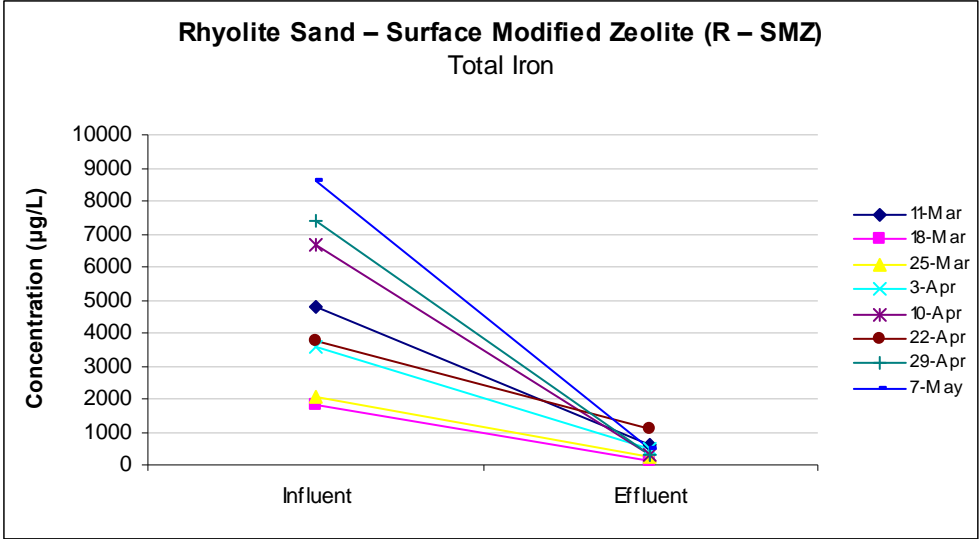
	df	SS	MS	F	Significance F
Regression	1.000	3110.989	3110.989	0.030	0.868
Residual	6.000	623609.886	103934.981		
Total	7.000	626720.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	418.181	261.377	1.600	0.161	-221.386	1057.748	-221.386	1057.748
X Variable 1	0.008	0.049	0.173	0.868	-0.111	0.127	-0.111	0.127

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	458.675	153.325
2	433.500	-292.500
3	435.419	-208.419
4	448.129	43.871
5	474.440	-176.440
6	449.745	638.255
7	480.399	-174.399
8	490.694	16.306





# Dissolved Fe

R-SMZ

## SUMMARY OUTPUT

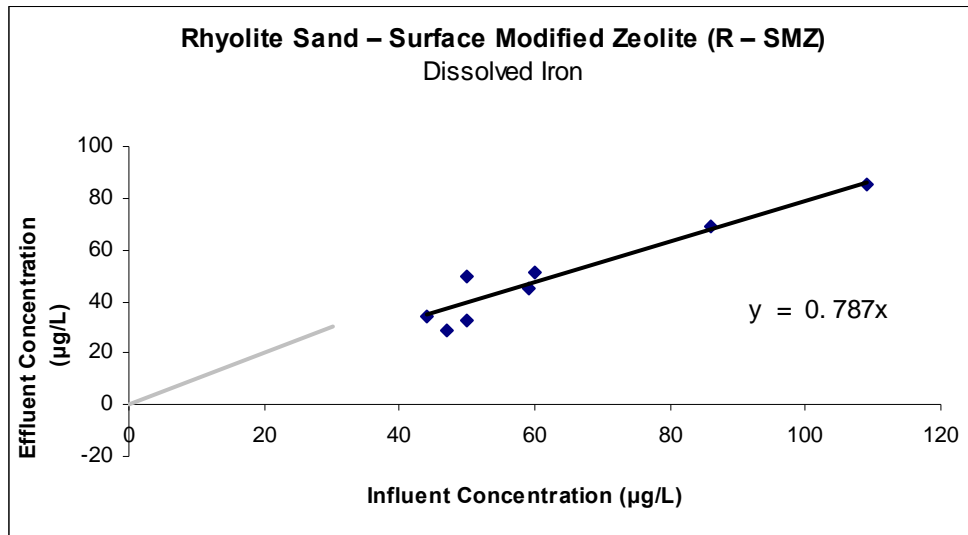
Regression Statistics	
Multiple R	0.995
R Square	0.989
Adjusted R Square	0.846
Standard Error	5.814
Observations	8.000

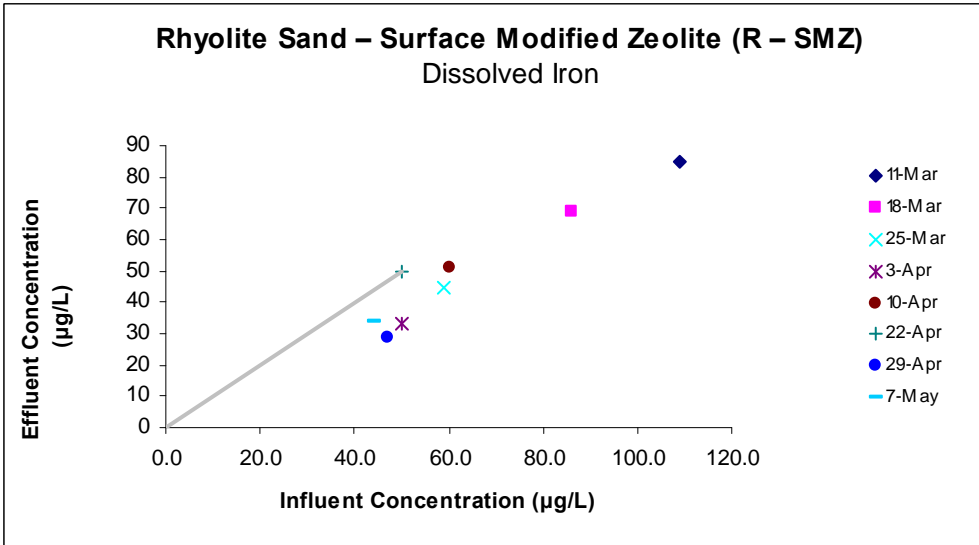
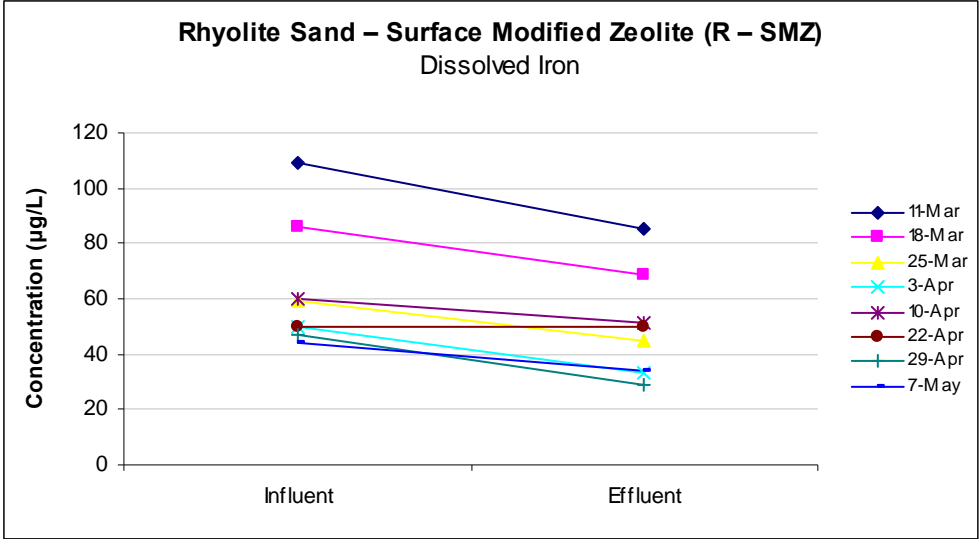
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	21961.353	21961.353	649.616	0.000
Residual	7.000	236.647	33.807		
Total	8.000	22198.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	0.786	0.031	25.488	0.000	0.714	0.859	0.714	0.859

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	85.728	-0.728
2	67.639	1.361
3	46.403	-1.403
4	39.325	-6.325
5	47.190	3.810
6	39.325	10.675
7	36.965	-7.965
8	34.606	-0.606





# Total Mg

R-SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.766
R Square	0.587
Adjusted R Square	0.518
Standard Error	494.272
Observations	8.000

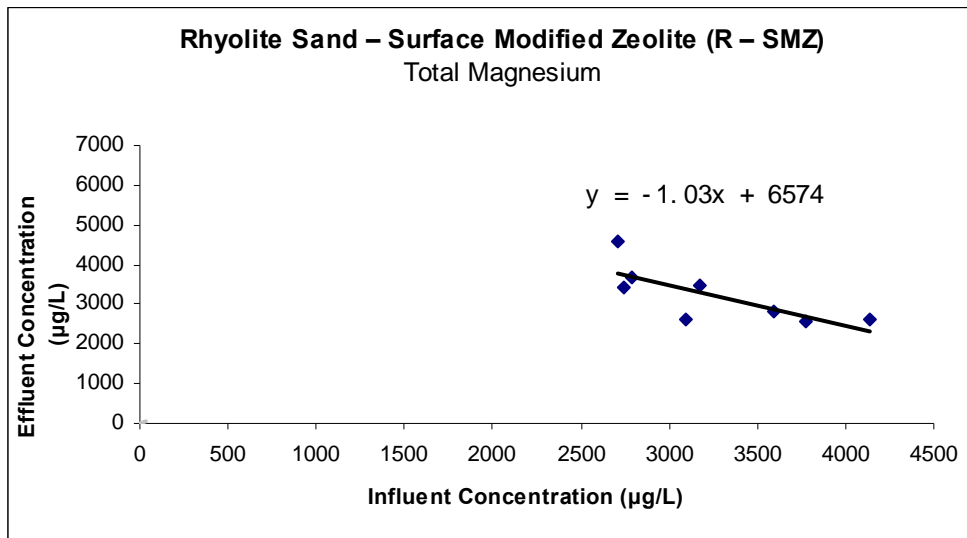
## ANOVA

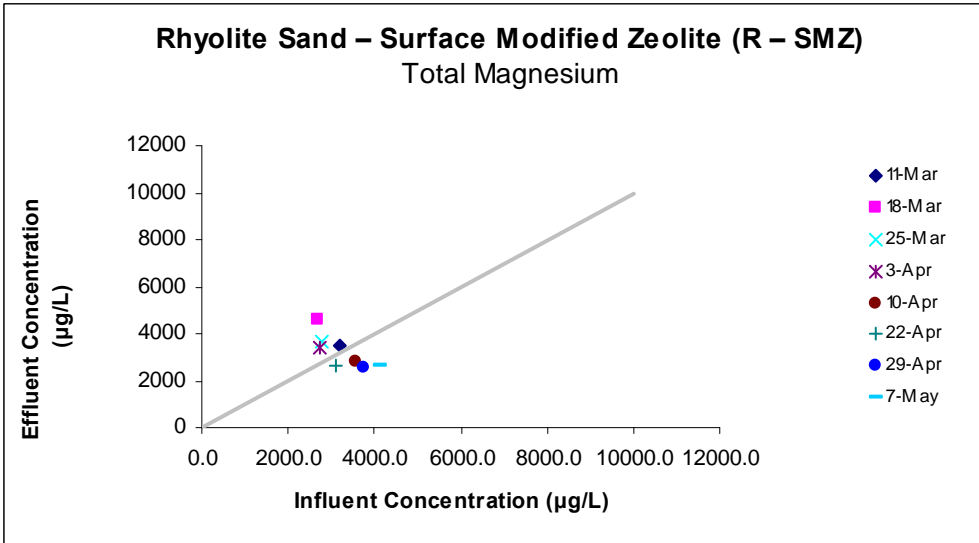
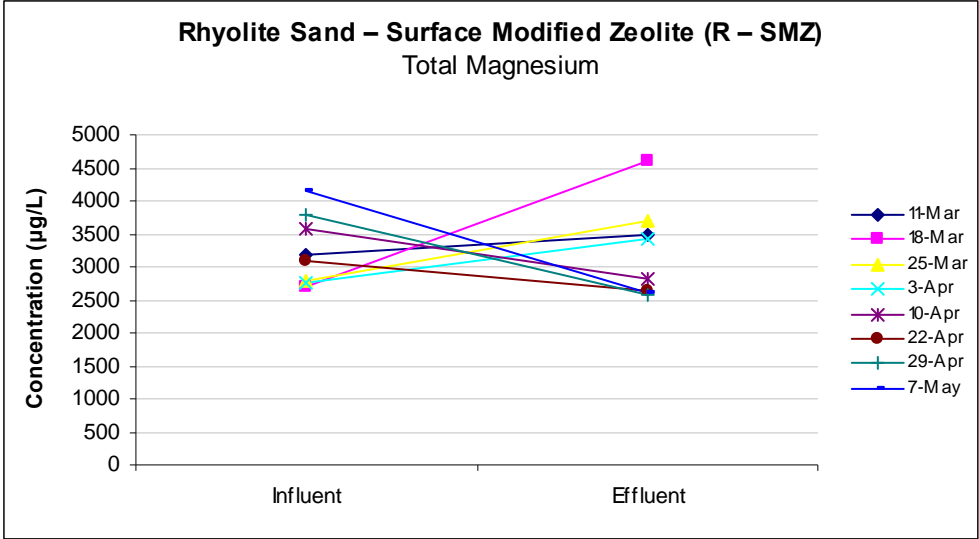
	df	SS	MS	F	Significance F
Regression	1.000	2084079.031	2084079.031	8.531	0.027
Residual	6.000	1465828.469	244304.745		
Total	7.000	3549907.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	6574.938	1157.735	5.679	0.001	3742.061	9407.814	3742.061	9407.814
X Variable 1	-1.028	0.352	-2.921	0.027	-1.889	-0.167	-1.889	-0.167

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	3307.537	192.463
2	3794.718	806.282
3	3708.382	-12.382
4	3754.633	-324.633
5	2885.108	-80.108
6	3389.762	-754.762
7	2697.019	-116.019
8	2320.842	289.158







# Dissolved Mg

R-SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.264
R Square	0.069
Adjusted R Square	-0.086
Standard Error	616.519
Observations	8.000

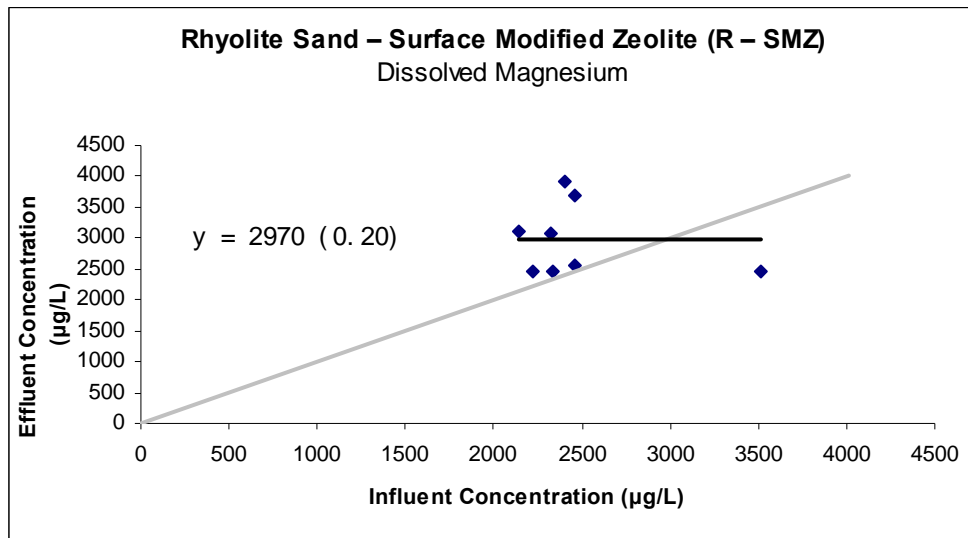
## ANOVA

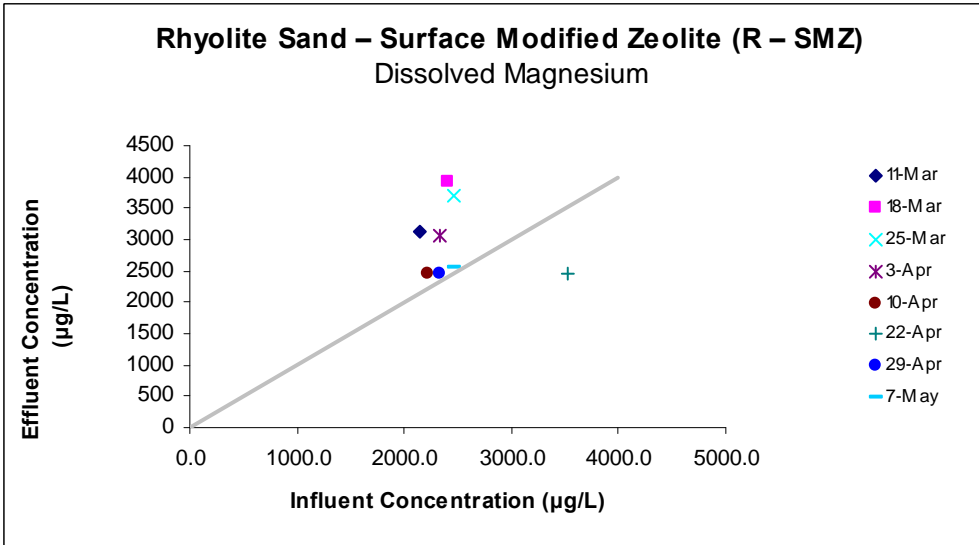
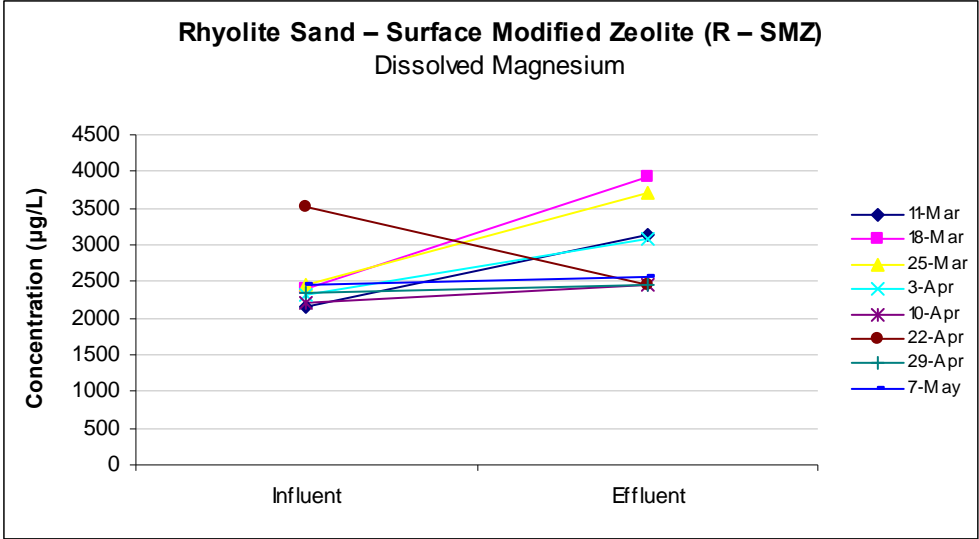
	df	SS	MS	F	Significance F
Regression	1.000	170241.233	170241.233	0.448	0.528
Residual	6.000	2280574.767	380095.794		
Total	7.000	2450816.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	3866.559	1357.273	2.849	0.029	545.432	7187.686	545.432	7187.686
X Variable 1	-0.361	0.539	-0.669	0.528	-1.681	0.959	-1.681	0.959

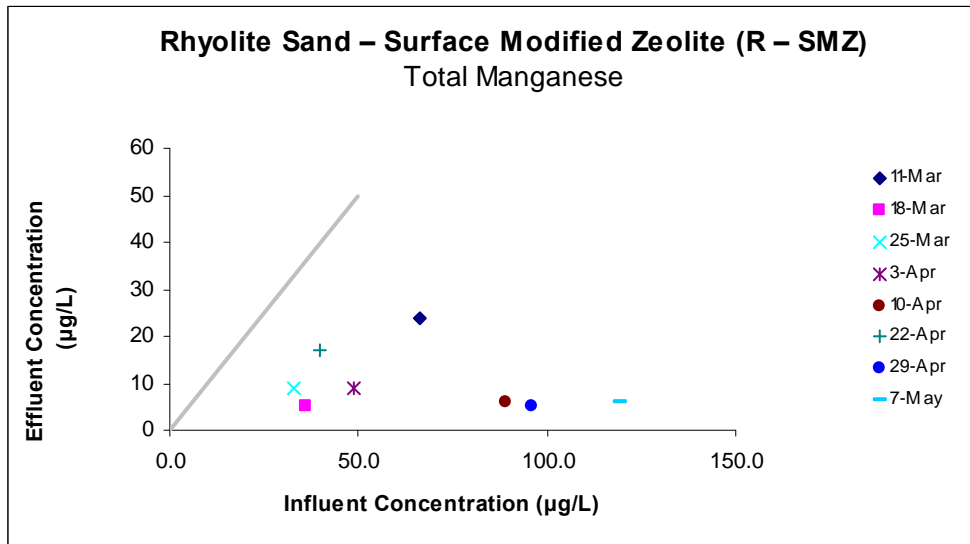
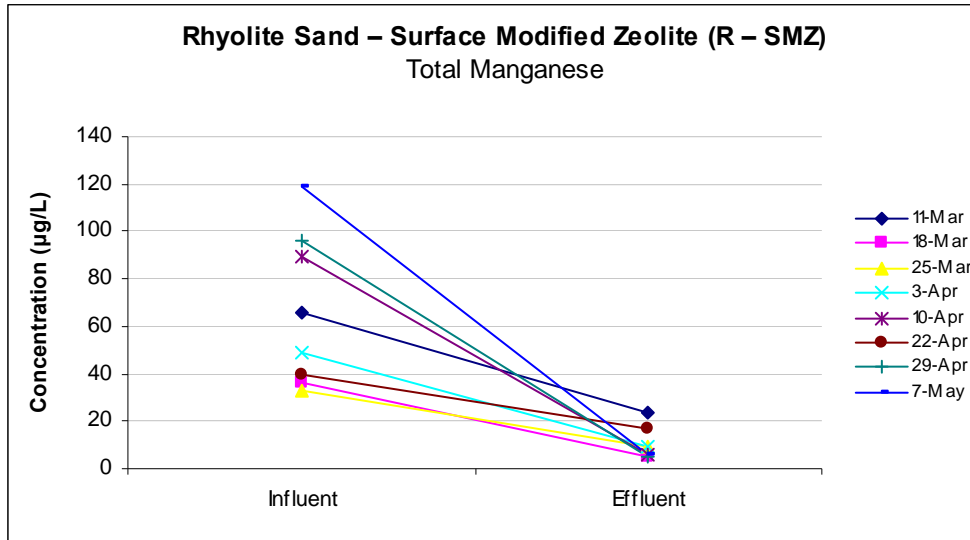
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	3092.562	30.438
2	2998.700	932.300
3	2977.401	722.599
4	3026.498	51.502
5	3064.764	-606.764
6	2596.900	-141.900
7	3023.609	-561.609
8	2979.567	-426.567

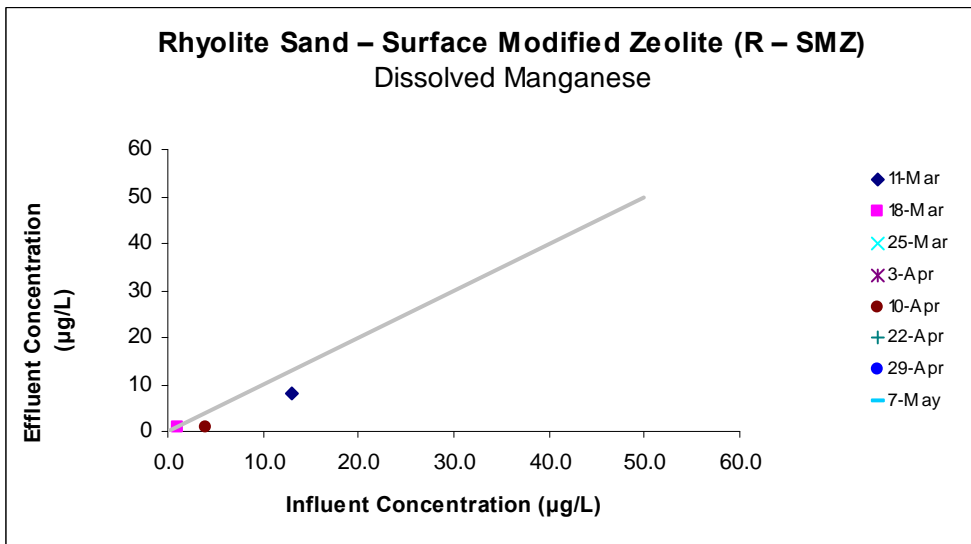
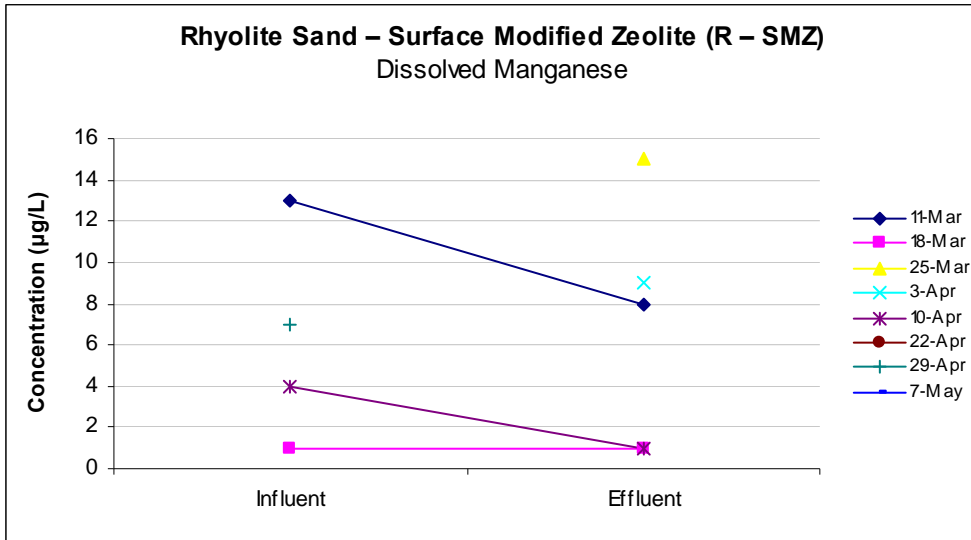




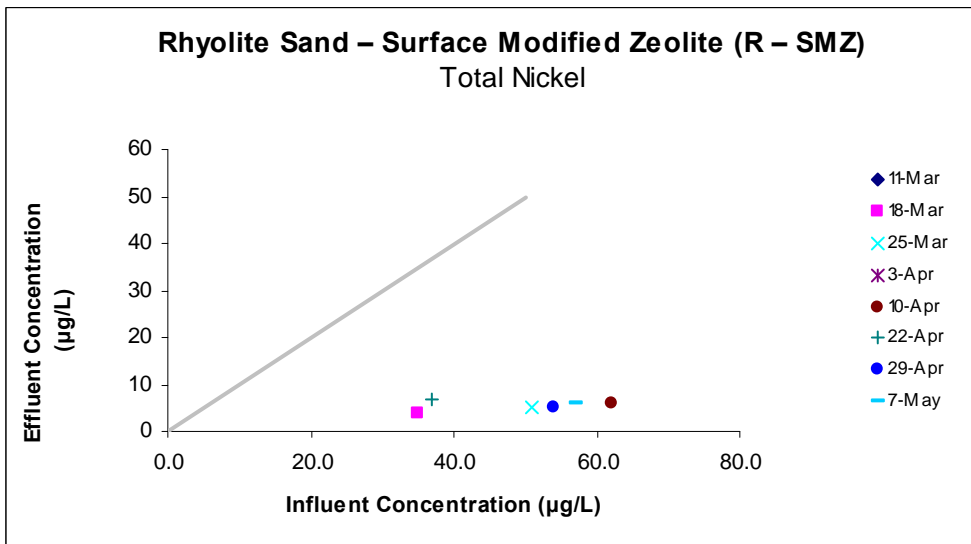
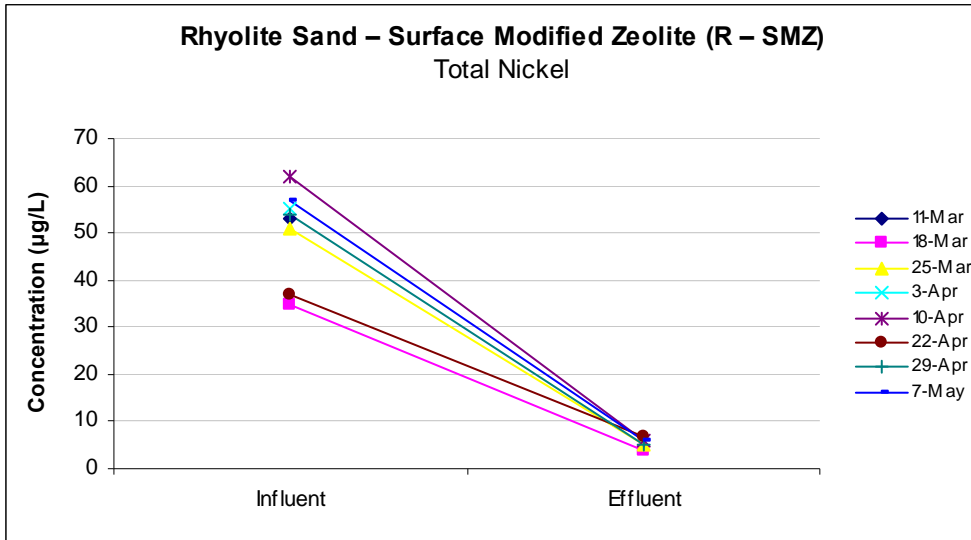
Total Mn



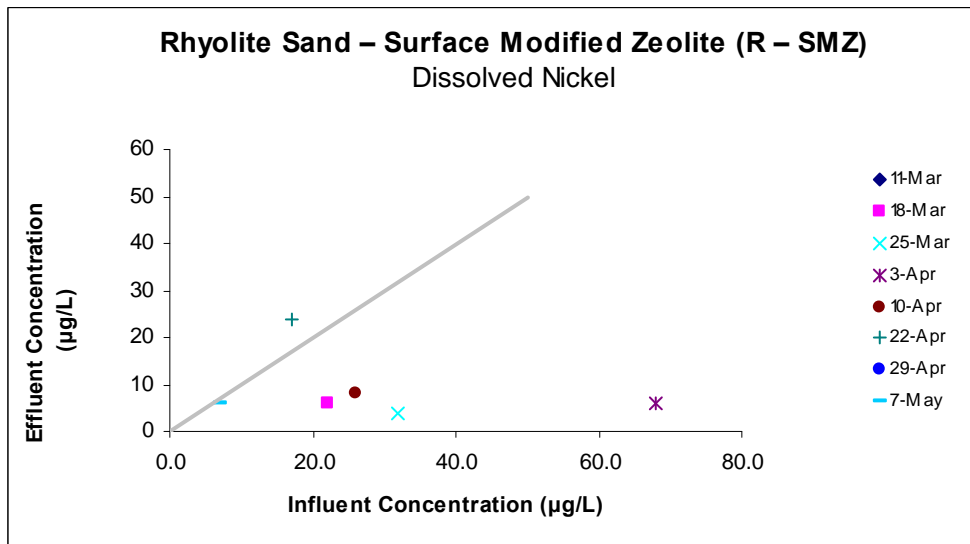
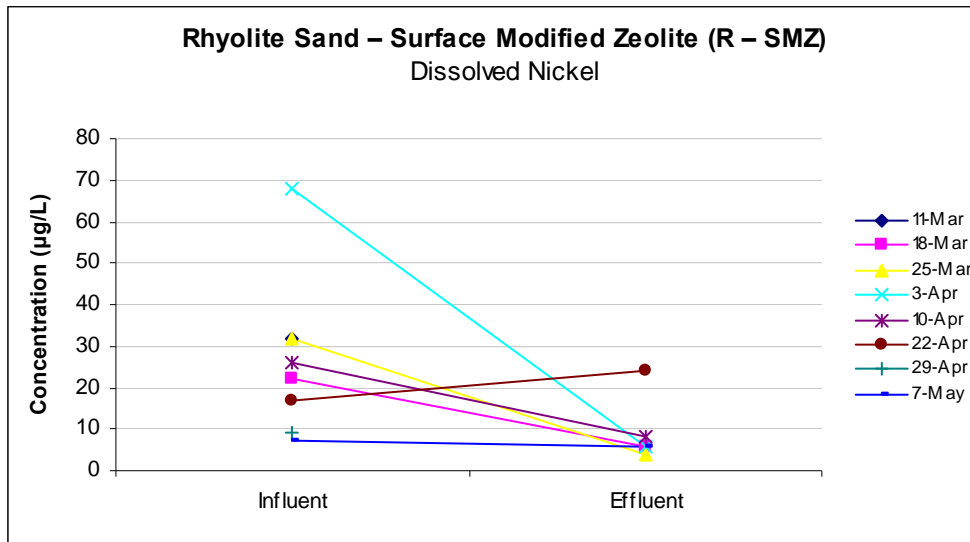
Dissolved Mn



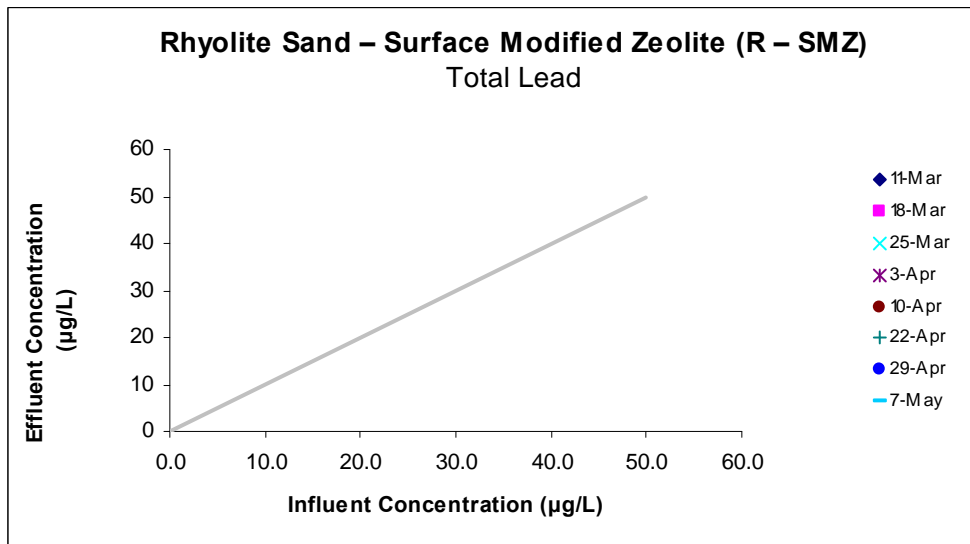
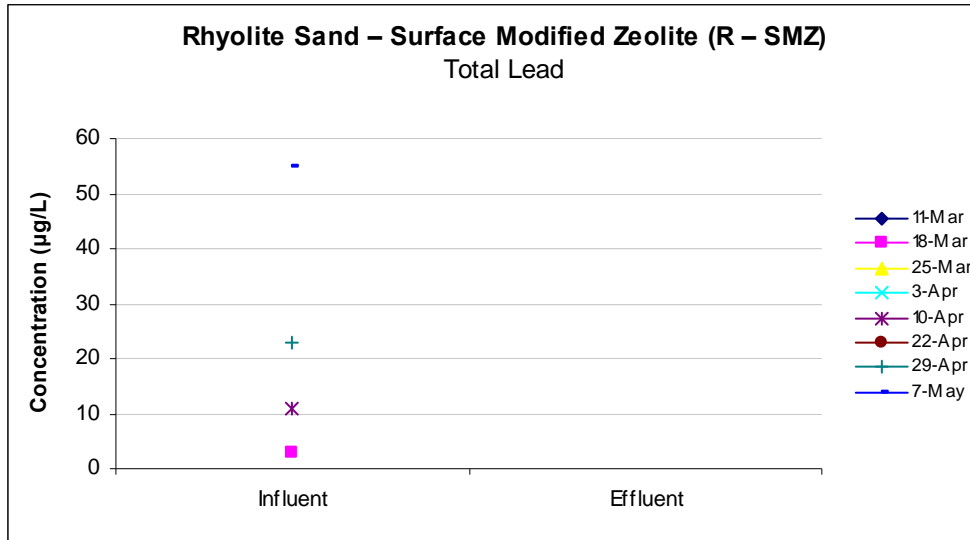
Total Ni



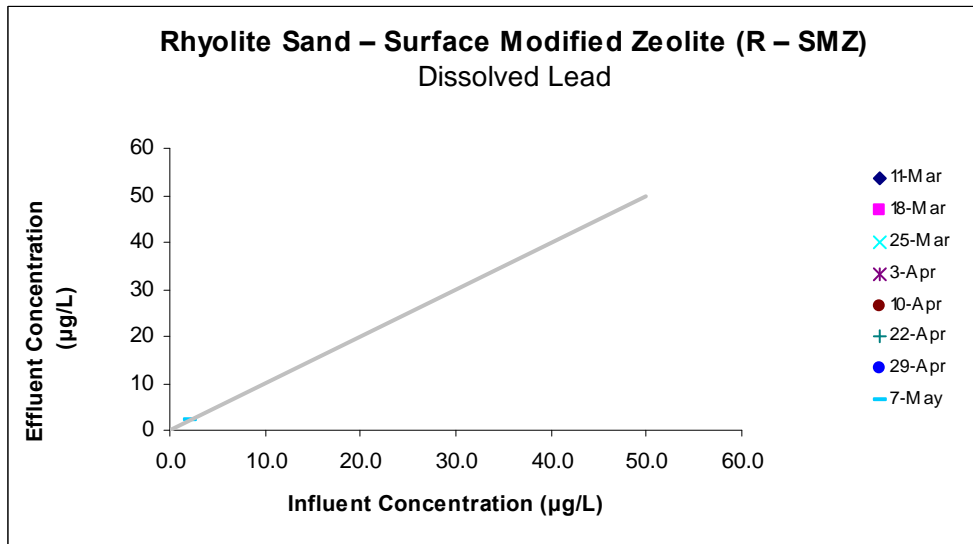
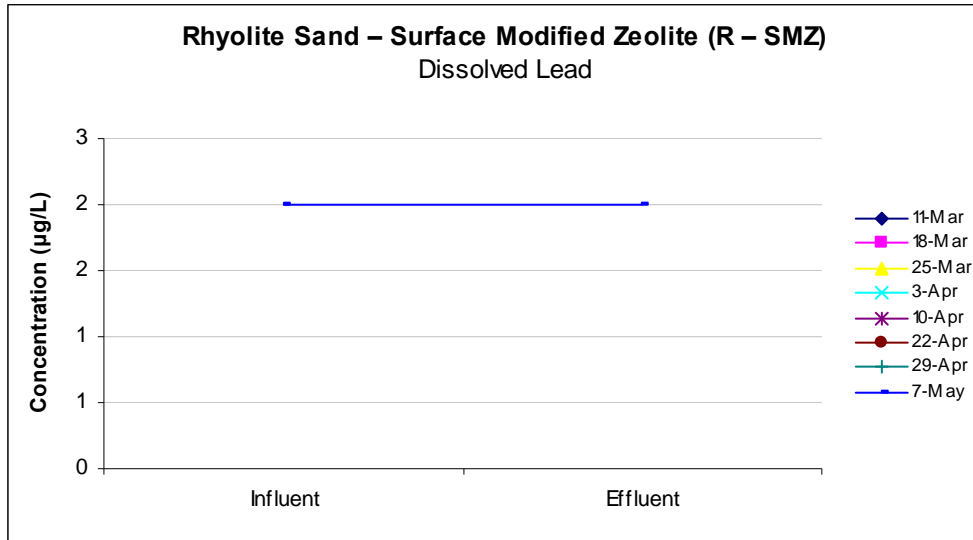
Dissolved Ni



Total Pb



## Dissolved Pb





# Total Zn

R-SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.028
R Square	0.001
Adjusted R Square	-0.166
Standard Error	13.461
Observations	8.000

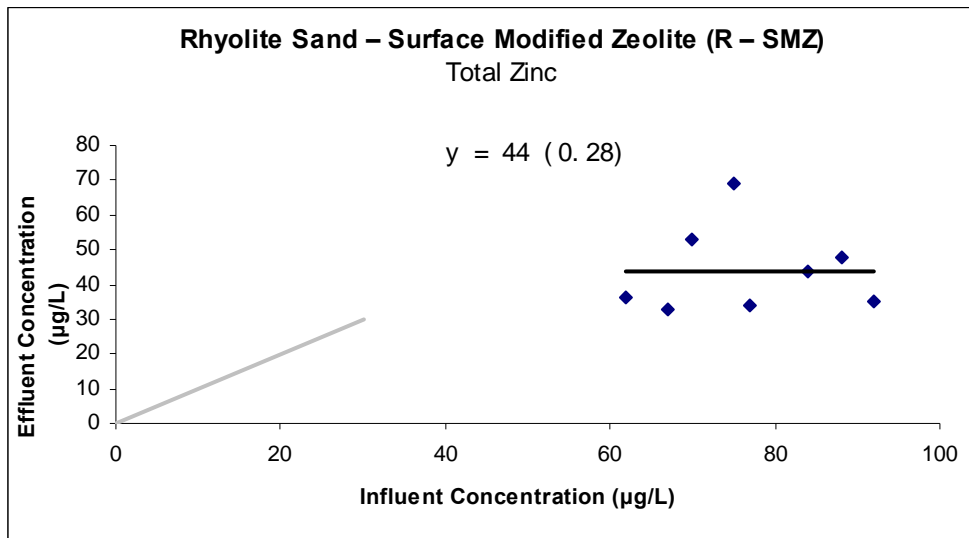
## ANOVA

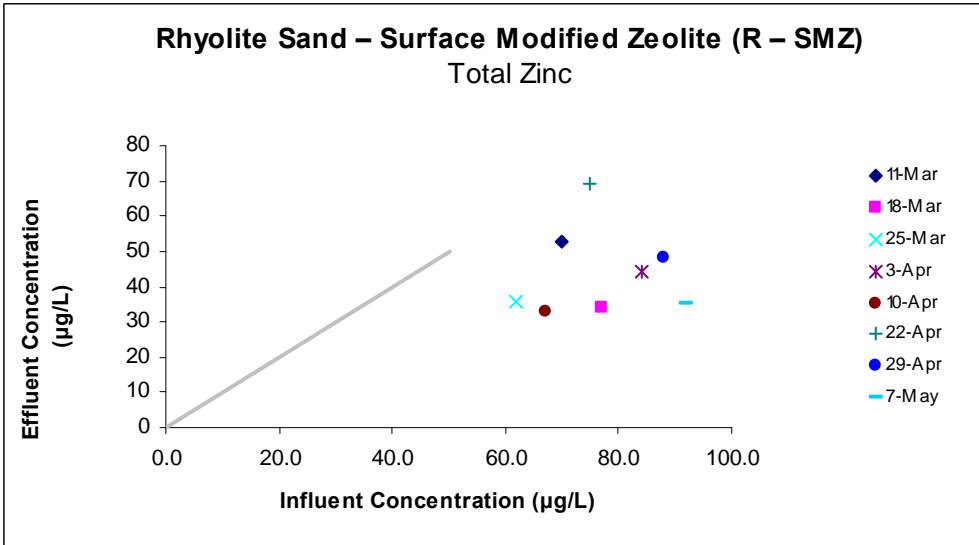
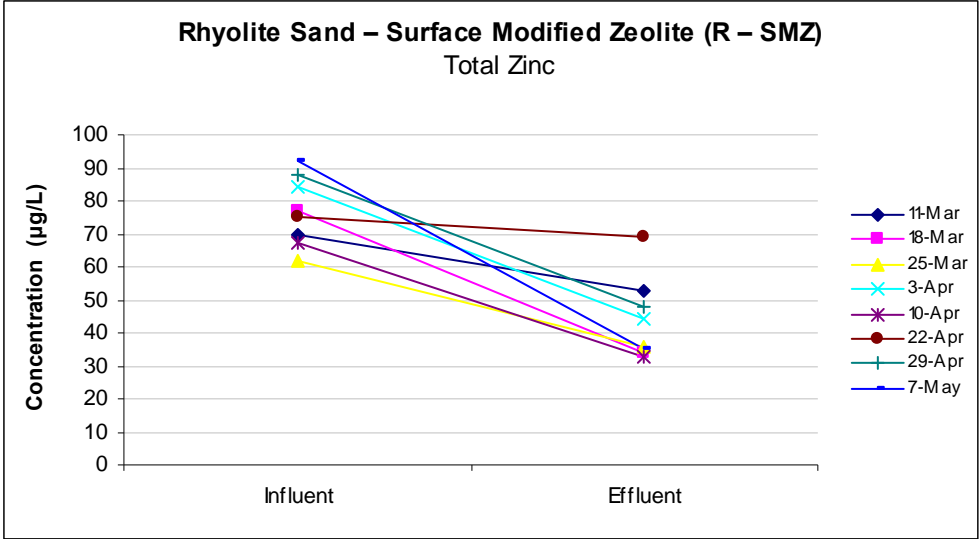
	df	SS	MS	F	Significance F
Regression	1.000	0.875	0.875	0.005	0.947
Residual	6.000	1087.125	181.188		
Total	7.000	1088.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	41.414	37.525	1.104	0.312	-50.405	133.233	-50.405	133.233
X Variable 1	0.034	0.484	0.069	0.947	-1.151	1.218	-1.151	1.218

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	43.769	9.231
2	44.004	-10.004
3	43.500	-7.500
4	44.240	-0.240
5	43.668	-10.668
6	43.937	25.063
7	44.374	3.626
8	44.509	-9.509





# Dissolved Zn

R-SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.488
R Square	0.239
Adjusted R Square	0.112
Standard Error	8.519
Observations	8.000

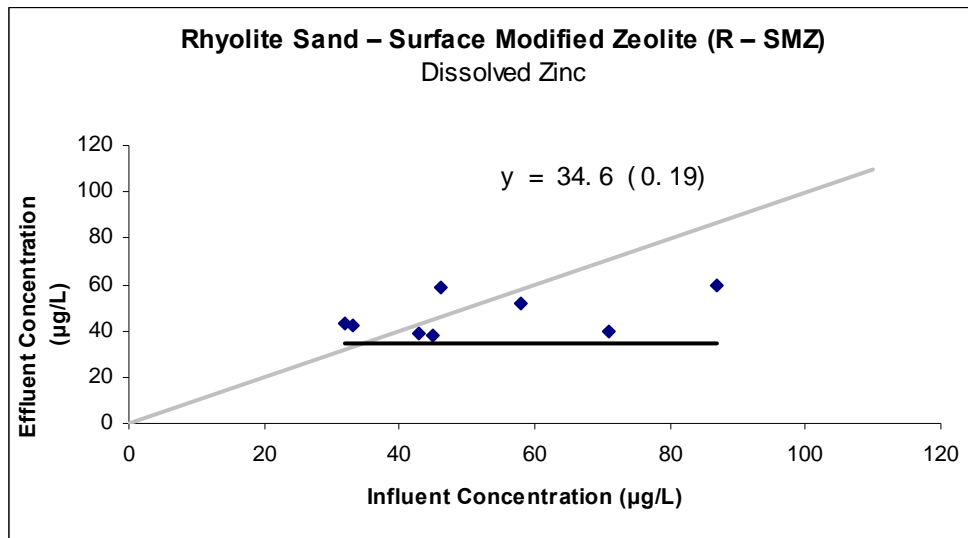
## ANOVA

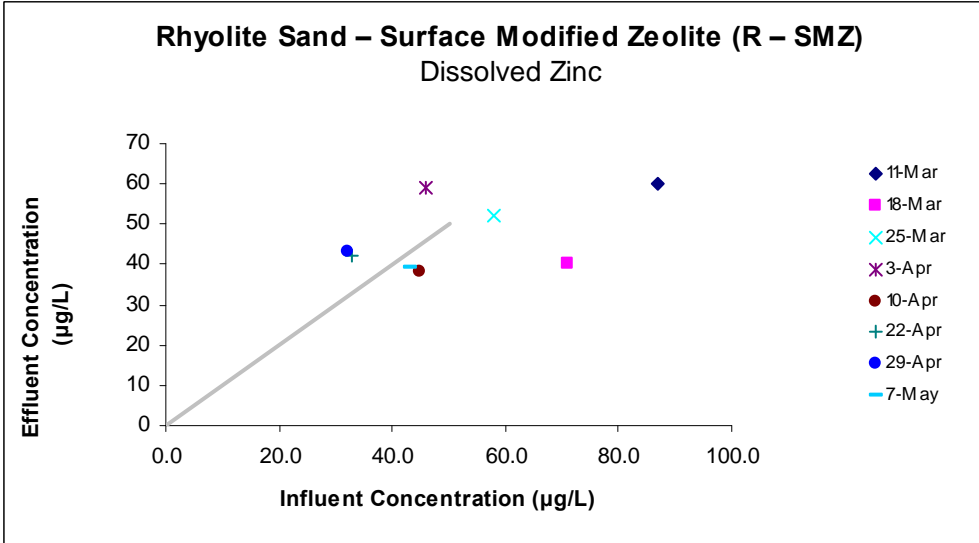
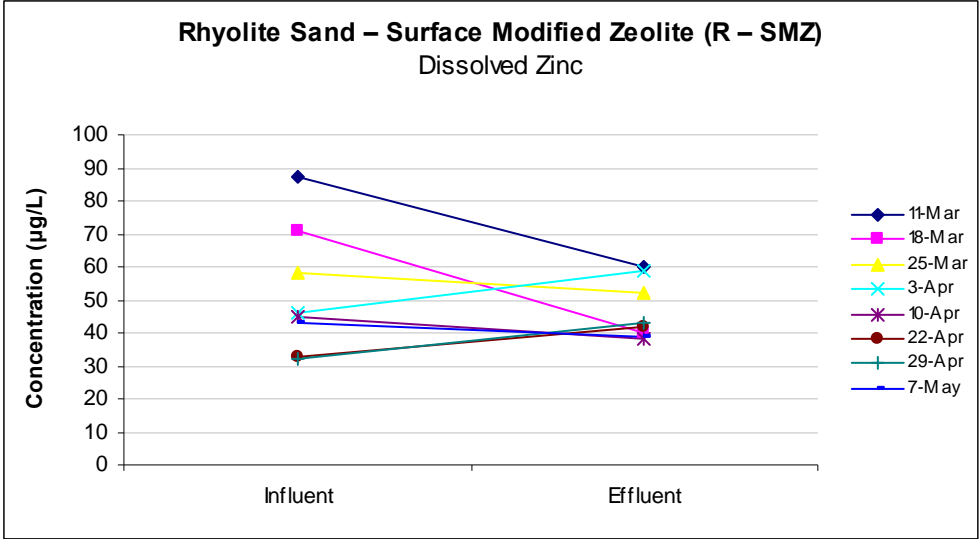
	df	SS	MS	F	Significance F
Regression	1.000	136.397	136.397	1.879	0.219
Residual	6.000	435.478	72.580		
Total	7.000	571.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	34.625	9.257	3.740	0.010	11.973	57.277	11.973	57.277
X Variable 1	0.231	0.169	1.371	0.219	-0.182	0.644	-0.182	0.644

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	54.750	5.250
2	51.049	-11.049
3	48.042	3.958
4	45.266	13.734
5	45.035	-7.035
6	42.259	-0.259
7	42.027	0.973
8	44.572	-5.572





# Total K

R-SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.106
R Square	0.011
Adjusted R Square	-0.154
Standard Error	317.165
Observations	8.000

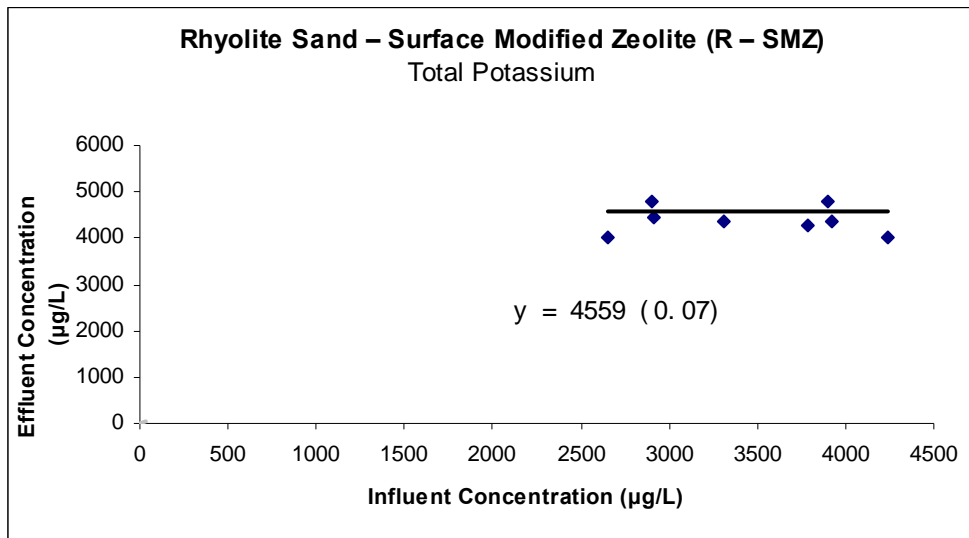
## ANOVA

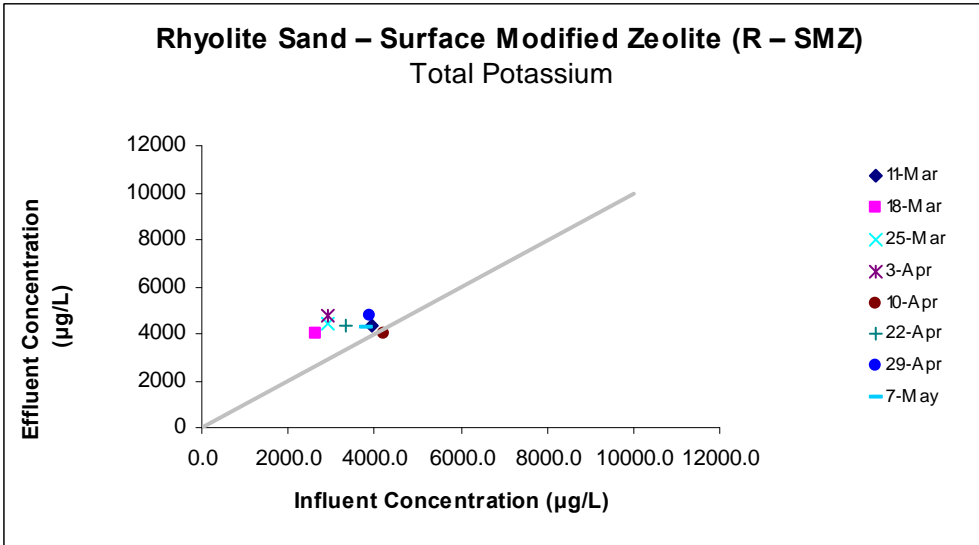
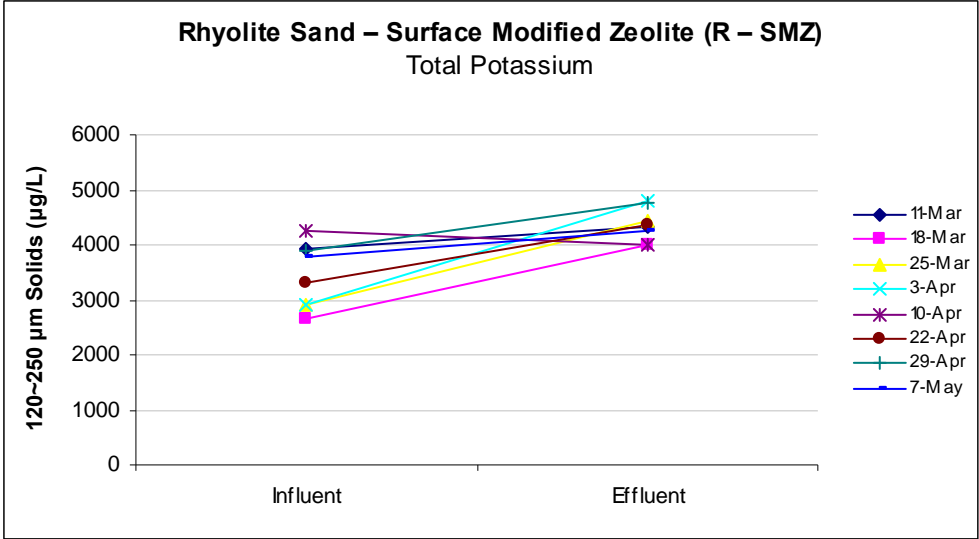
	df	SS	MS	F	Significance F
Regression	1.000	6841.192	6841.192	0.068	0.803
Residual	6.000	603562.308	100593.718		
Total	7.000	610403.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	4559.531	715.485	6.373	0.001	2808.802	6310.261	2808.802	6310.261
X Variable 1	-0.053	0.205	-0.261	0.803	-0.554	0.447	-0.554	0.447

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	4350.418	-7.418
2	4418.077	-404.077
3	4403.937	32.063
4	4404.737	378.263
5	4333.343	-326.343
6	4382.700	-11.700
7	4351.539	426.461
8	4357.248	-87.248





# Dissolved K

R-SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.147
R Square	0.021
Adjusted R Square	-0.142
Standard Error	387.652
Observations	8.000

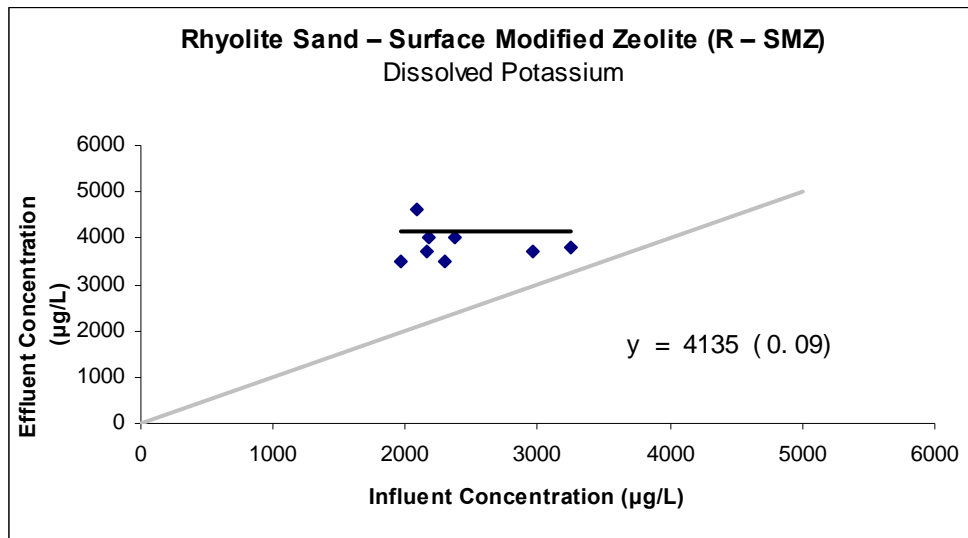
## ANOVA

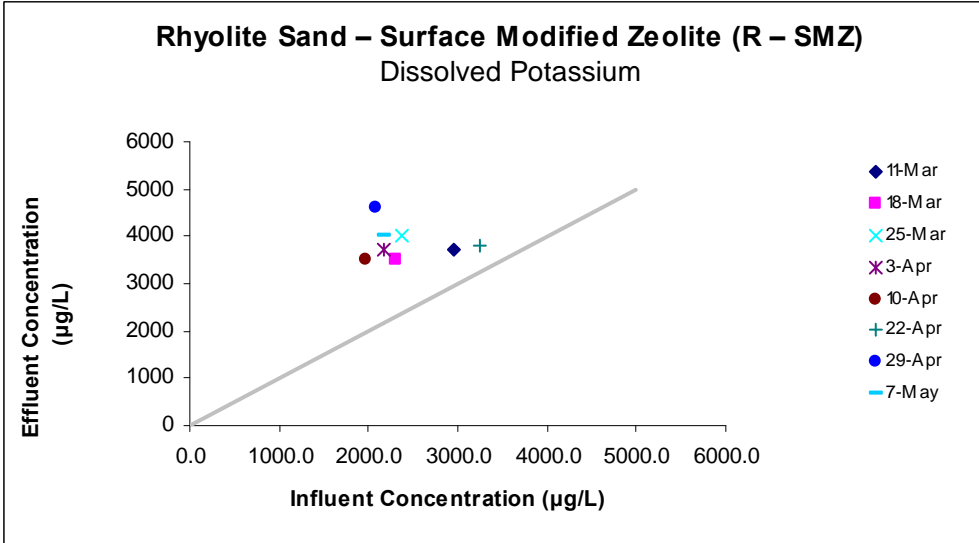
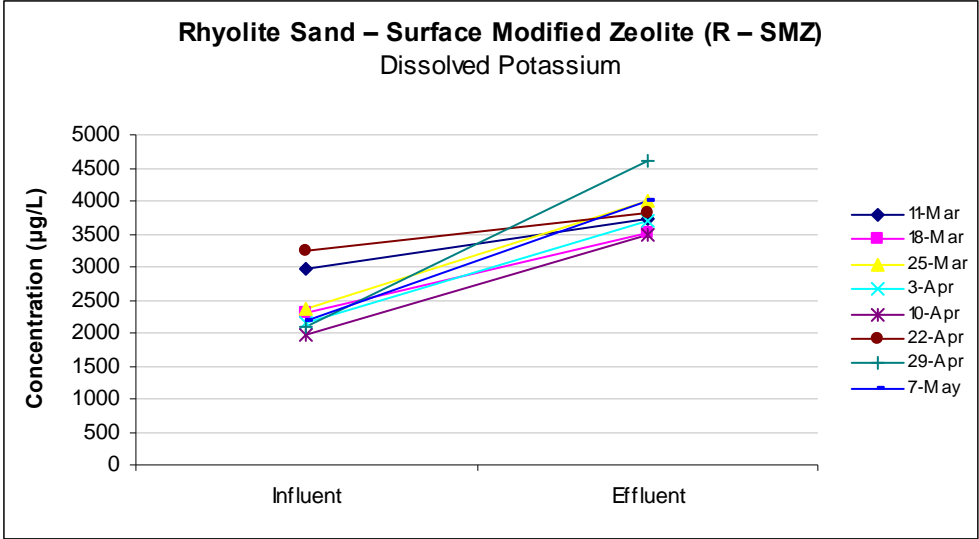
	df	SS	MS	F	Significance F
Regression	1.000	19805.872	19805.872	0.132	0.729
Residual	6.000	901644.003	150274.000		
Total	7.000	921449.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	4135.611	786.022	5.261	0.002	2212.286	6058.937	2212.286	6058.937
X Variable 1	-0.117	0.322	-0.363	0.729	-0.904	0.670	-0.904	0.670

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	3790.518	-76.518
2	3866.635	-362.635
3	3859.163	155.837
4	3883.212	-184.212
5	3906.795	-414.795
6	3755.729	49.271
7	3892.669	720.331
8	3882.279	112.721







# Total Na

R-SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.089
R Square	0.008
Adjusted R Square	-0.157
Standard Error	1463.624
Observations	8.000

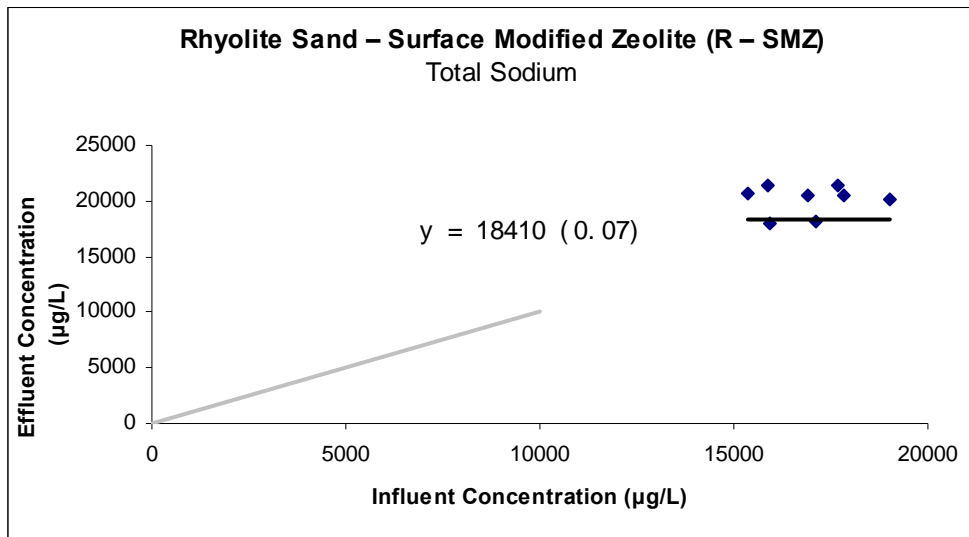
## ANOVA

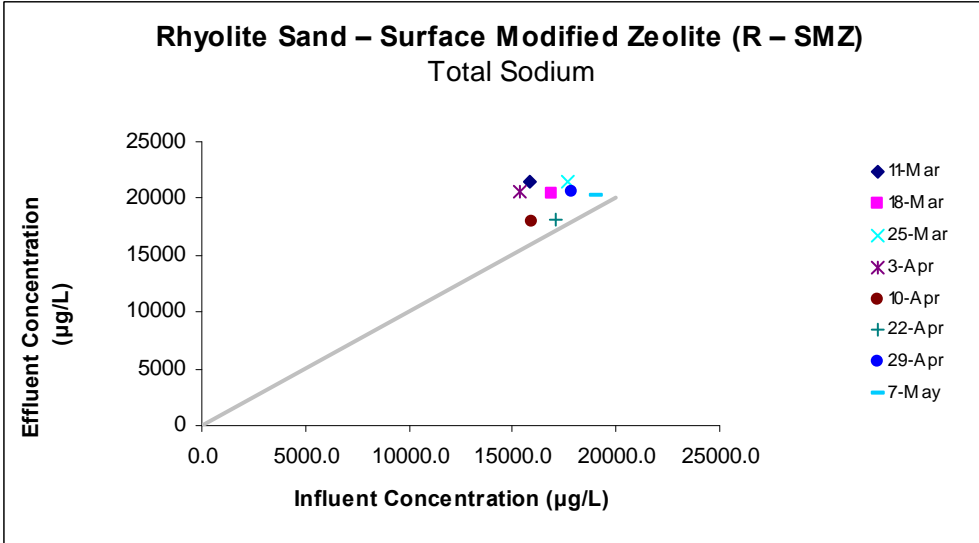
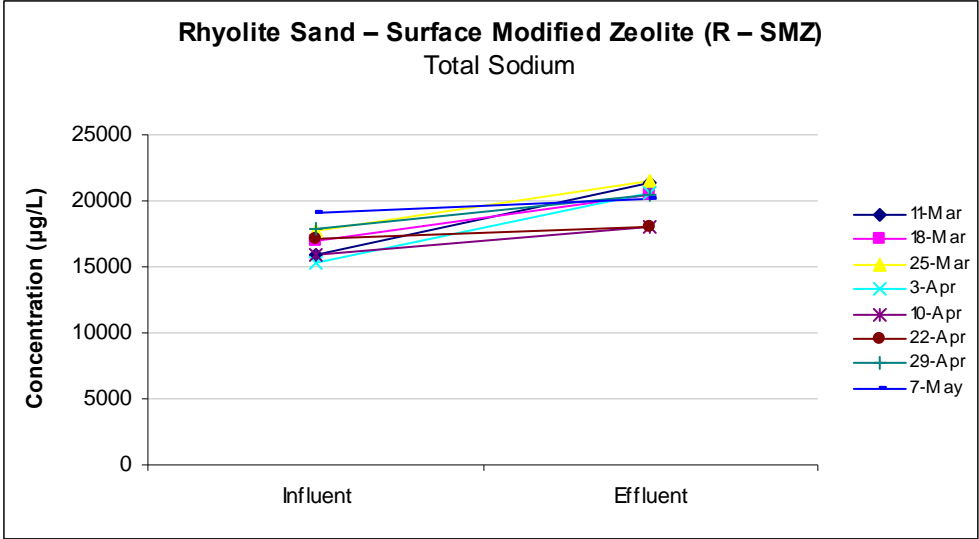
	df	SS	MS	F	Significance F
Regression	1.000	102030.364	102030.364	0.048	0.834
Residual	6.000	12853177.136	2142196.189		
Total	7.000	12955207.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	18409.610	7720.518	2.385	0.054	-481.817	37301.038	-481.817	37301.038
X Variable 1	0.099	0.454	0.218	0.834	-1.012	1.210	-1.012	1.210

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	19982.518	1451.482
2	20084.756	349.244
3	20161.534	1316.466
4	19931.795	724.205
5	19988.660	-2032.660
6	20105.264	-2025.264
7	20175.206	342.794
8	20296.267	-126.267





# Dissolved Na

R-SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.429
R Square	0.184
Adjusted R Square	0.048
Standard Error	1342.489
Observations	8.000

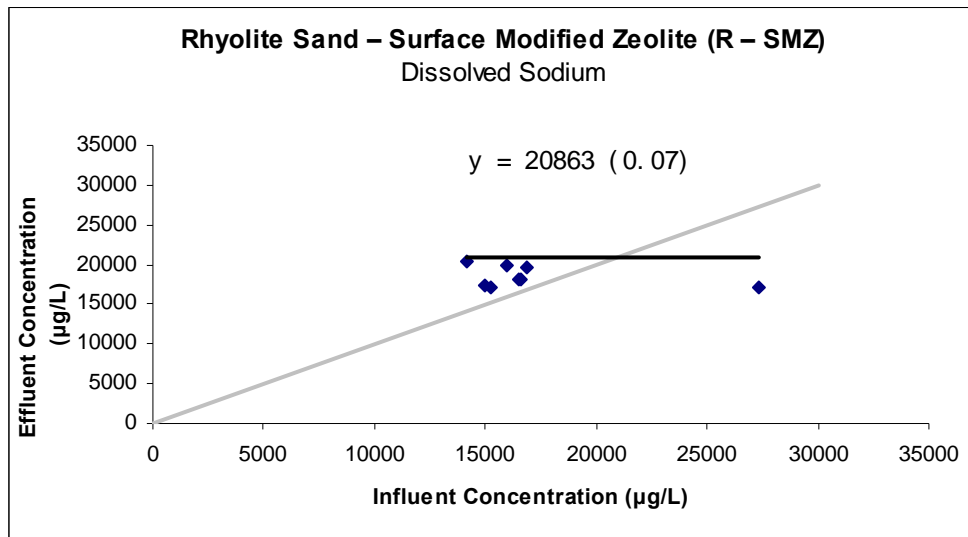
## ANOVA

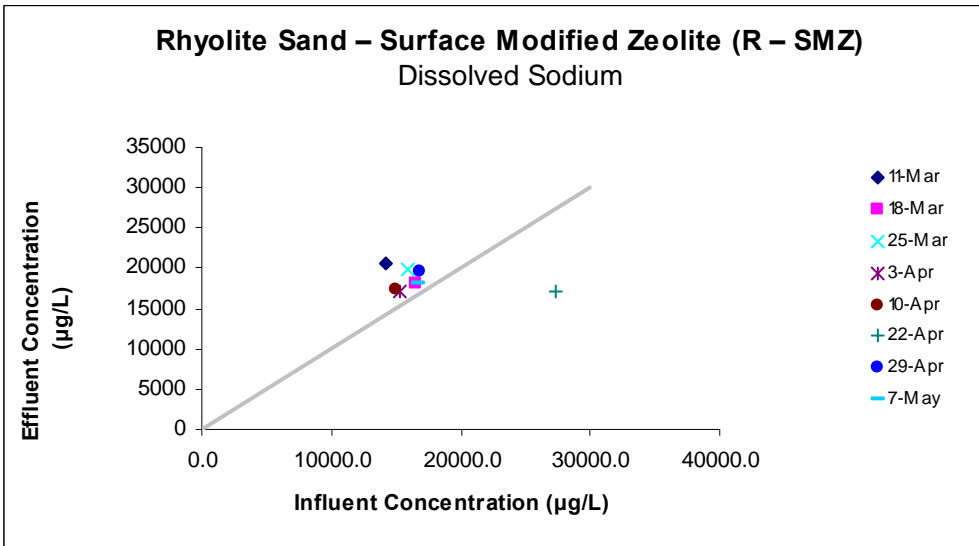
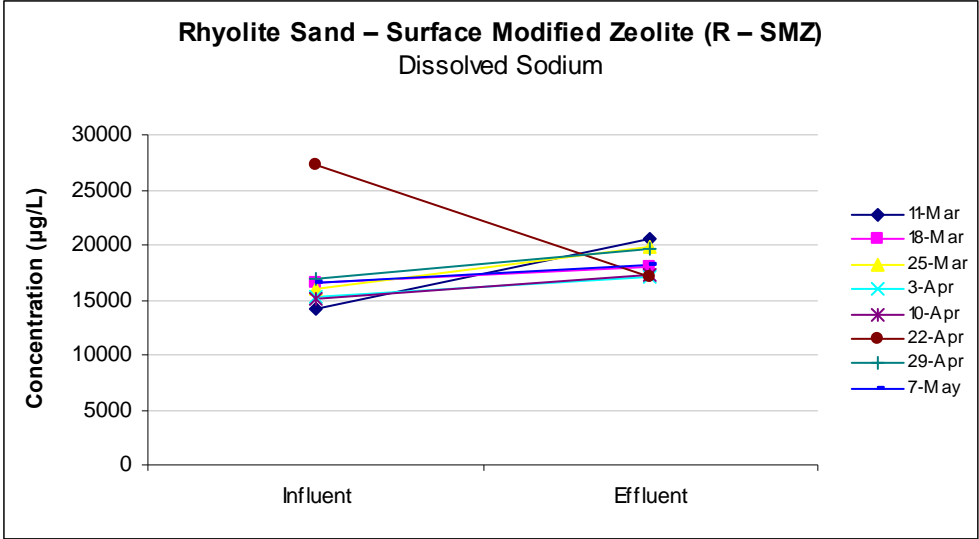
	df	SS	MS	F	Significance F
Regression	1.000	2443265.960	2443265.960	1.356	0.288
Residual	6.000	10813664.040	1802277.340		
Total	7.000	13256930.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20863.080	2138.310	9.757	0.000	15630.825	26095.336	15630.825	26095.336
X Variable 1	-0.141	0.121	-1.164	0.288	-0.437	0.155	-0.437	0.155

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	18864.461	1637.539
2	18531.616	-457.616
3	18612.853	1294.147
4	18709.885	-1696.885
5	18747.119	-1432.119
6	17008.569	-0.569
7	18489.728	1070.272
8	18519.769	-414.769





# Total Cr

R-SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.223
R Square	0.050
Adjusted R Square	-0.109
Standard Error	16.601
Observations	8.000

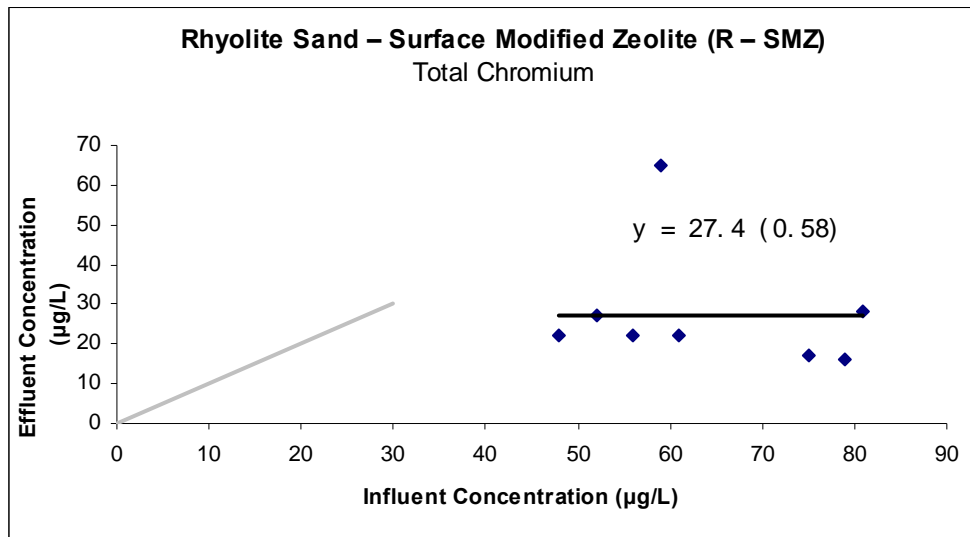
## ANOVA

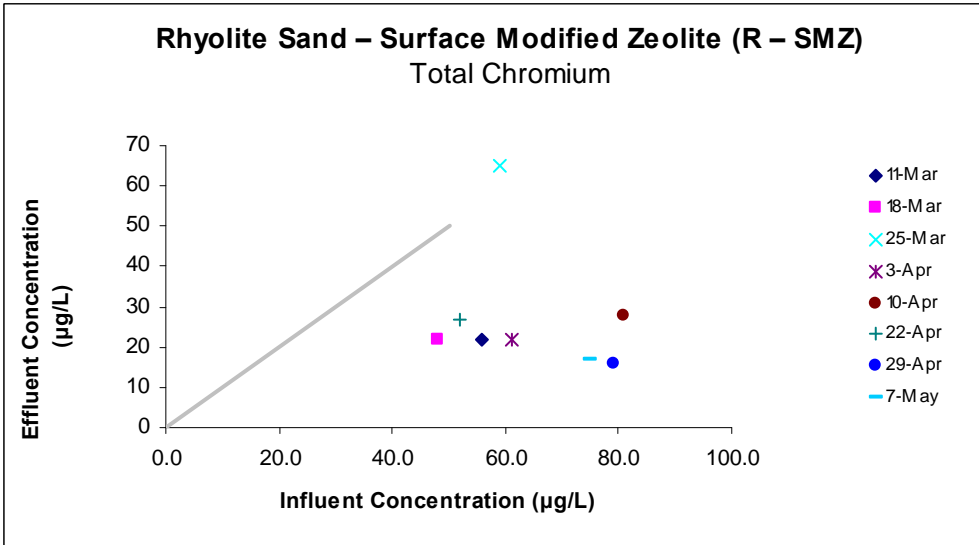
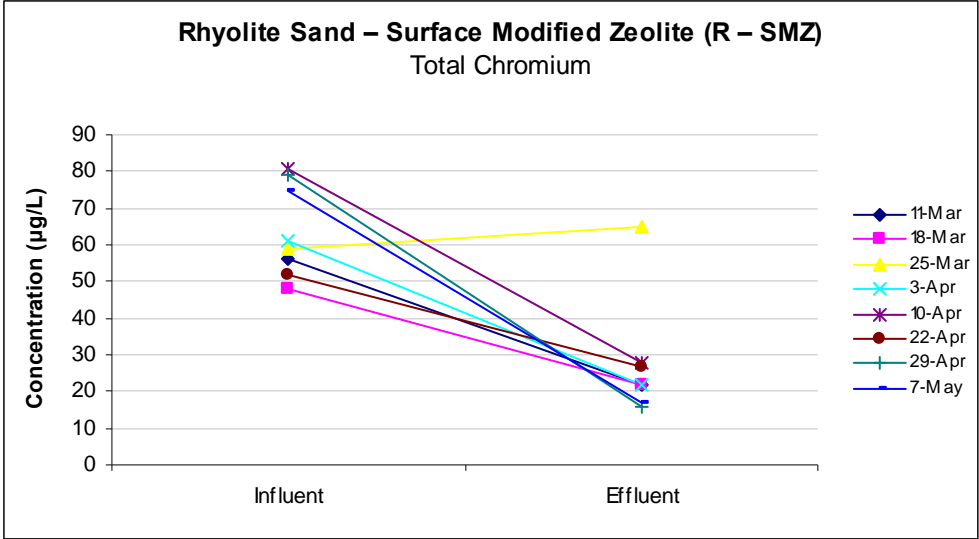
	df	SS	MS	F	Significance F
Regression	1.000	86.271	86.271	0.313	0.596
Residual	6.000	1653.604	275.601		
Total	7.000	1739.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	45.002	32.047	1.404	0.210	-33.415	123.418	-33.415	123.418
X Variable 1	-0.276	0.493	-0.559	0.596	-1.483	0.931	-1.483	0.931

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	29.548	-7.548
2	31.756	-9.756
3	28.720	36.280
4	28.168	-6.168
5	22.649	5.351
6	30.652	-3.652
7	23.201	-7.201
8	24.305	-7.305





# Dissolved Cr

R-SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.466
R Square	0.217
Adjusted R Square	0.087
Standard Error	14.755
Observations	8.000

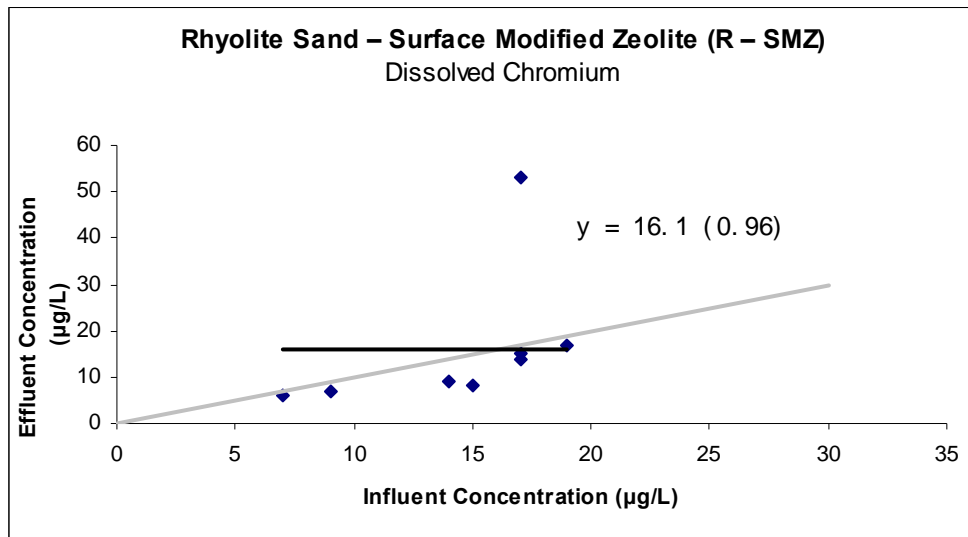
## ANOVA

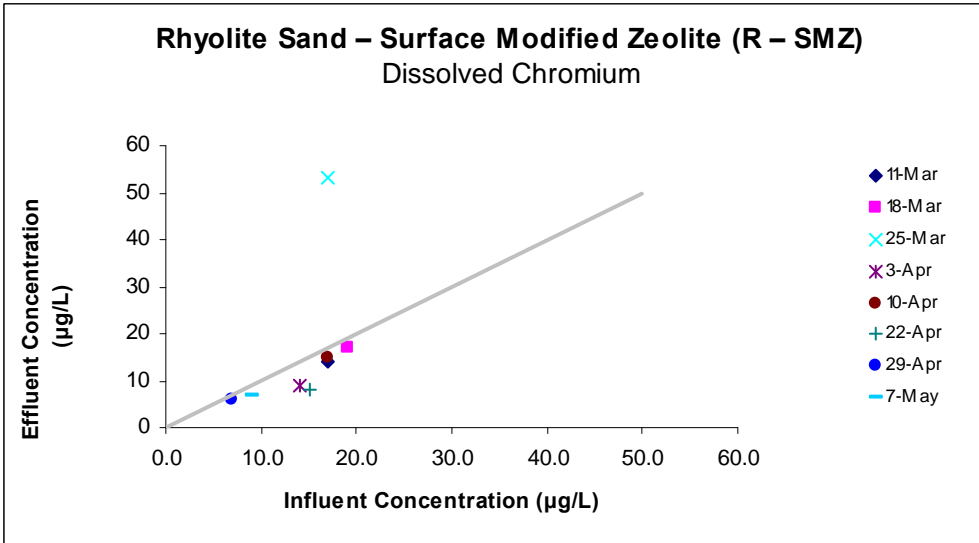
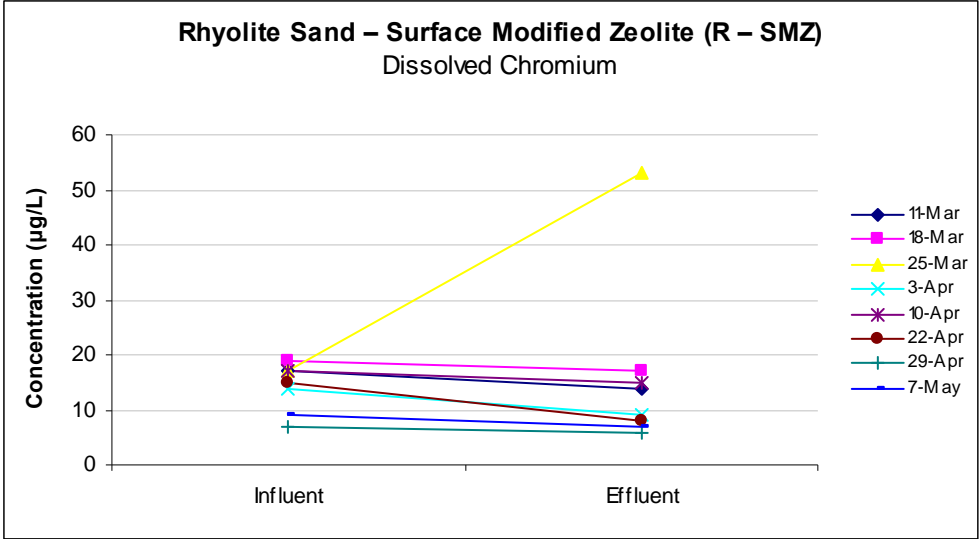
	df	SS	MS	F	Significance F
Regression	1.000	362.547	362.547	1.665	0.244
Residual	6.000	1306.328	217.721		
Total	7.000	1668.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-8.271	19.612	-0.422	0.688	-56.260	39.718	-56.260	39.718
X Variable 1	1.697	1.315	1.290	0.244	-1.521	4.915	-1.521	4.915

## RESIDUAL OUTPUT

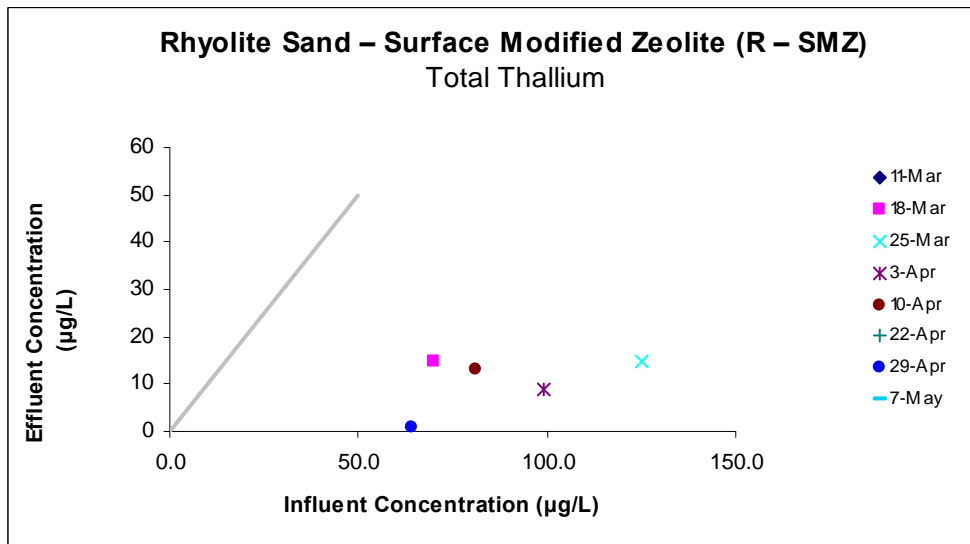
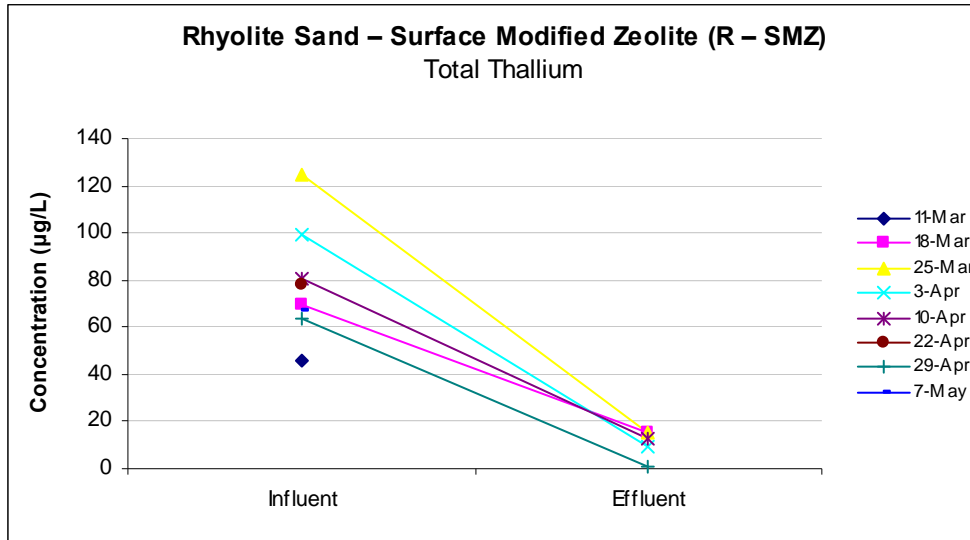
Observation	Predicted Y	Residuals
1	20.580	-6.580
2	23.974	-6.974
3	20.580	32.420
4	15.489	-6.489
5	20.580	-5.580
6	17.186	-9.186
7	3.609	2.391
8	7.003	-0.003



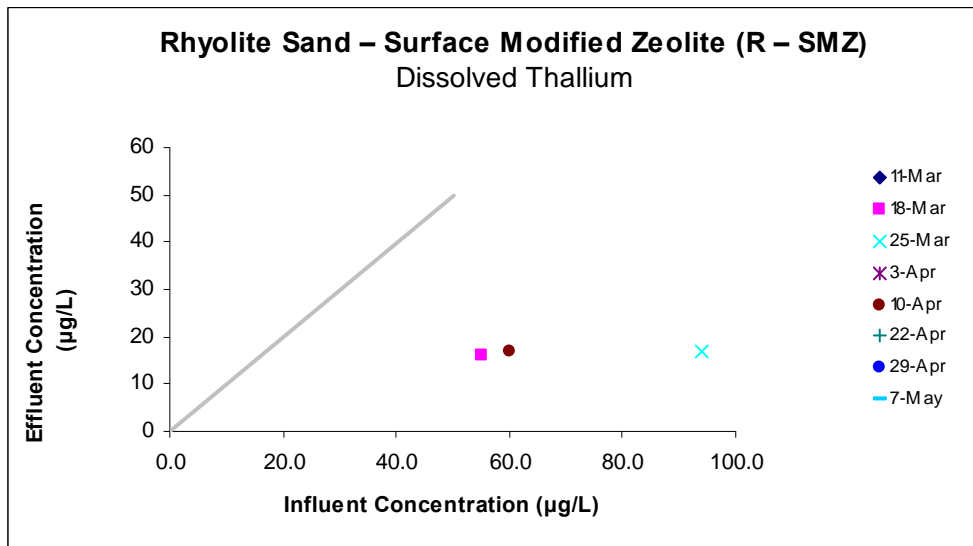
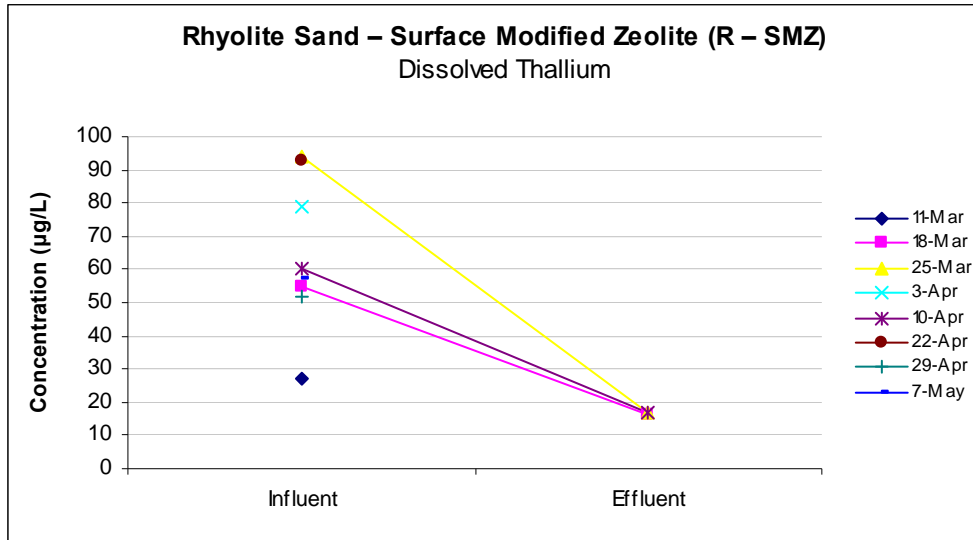




Total Tl



Dissolved Tl



# Total Sb

R-SMZ

## SUMMARY OUTPUT

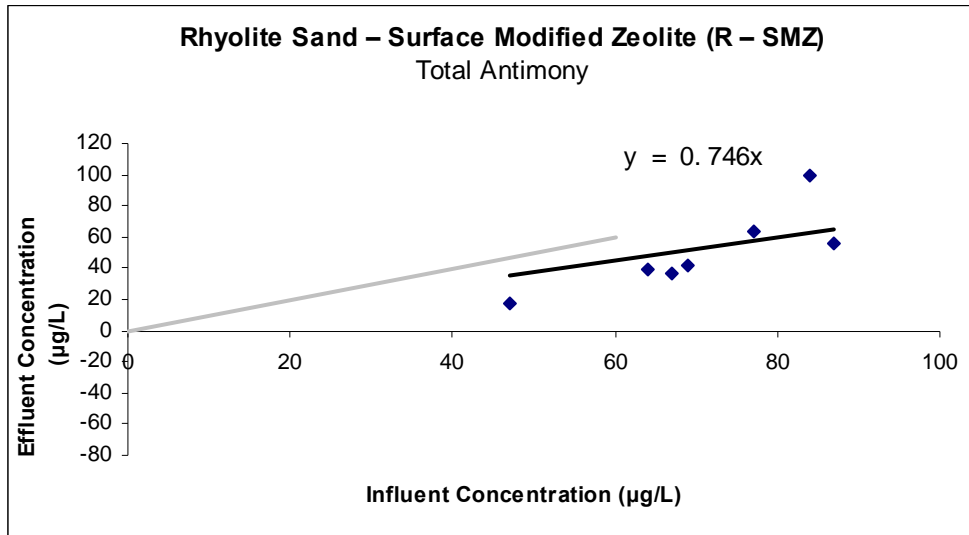
Regression Statistics	
Multiple R	0.951
R Square	0.904
Adjusted R Square	0.737
Standard Error	18.895
Observations	7.000

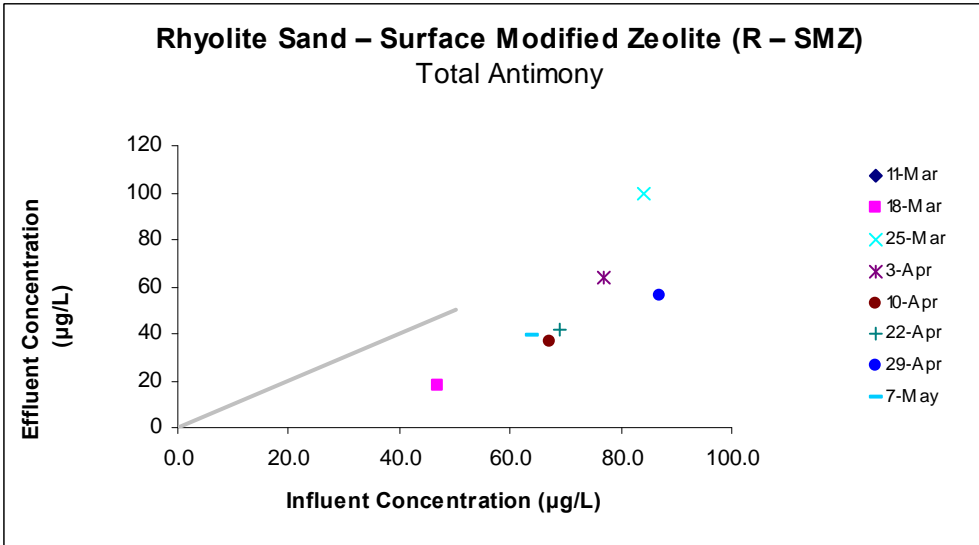
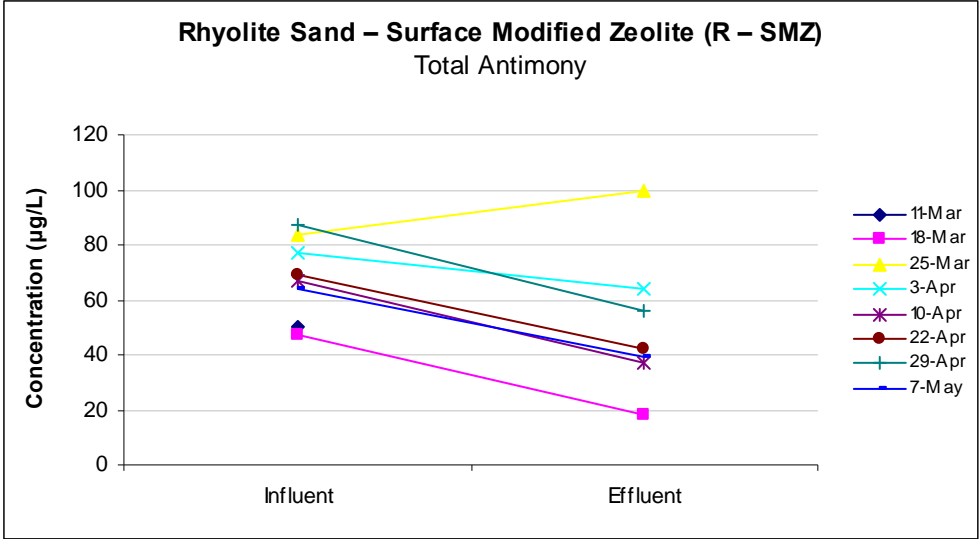
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	20067.921	20067.921	56.211	0.001
Residual	6.000	2142.079	357.013		
Total	7.000	22210.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	0.745	0.099	7.497	0.000	0.502	0.989	0.502	0.989

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	35.038	-17.038
2	62.621	37.379
3	57.403	6.597
4	49.948	-12.948
5	51.439	-9.439
6	64.858	-8.858
7	47.712	-8.712





# Dissolved Sb

R-SMZ

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.533
R Square	0.284
Adjusted R Square	0.141
Standard Error	23.430
Observations	7.000

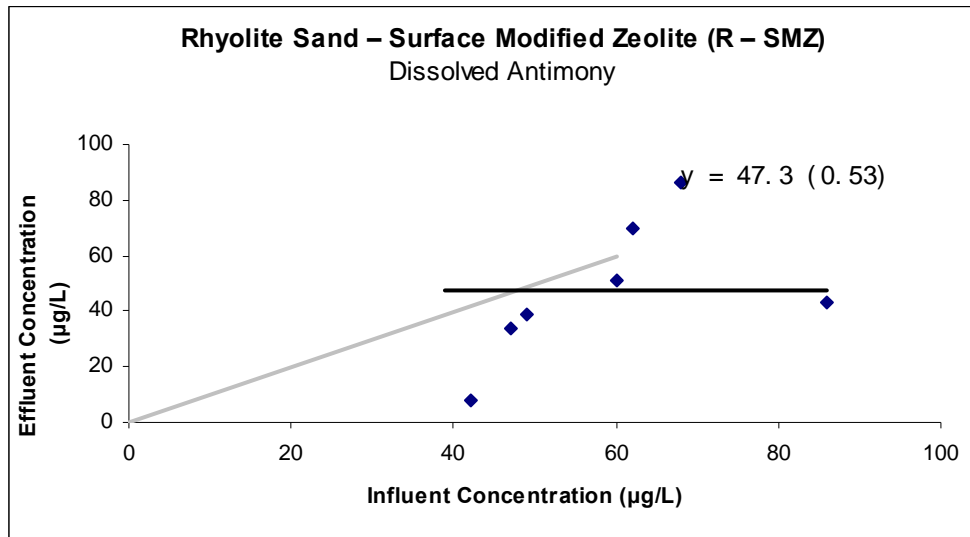
## ANOVA

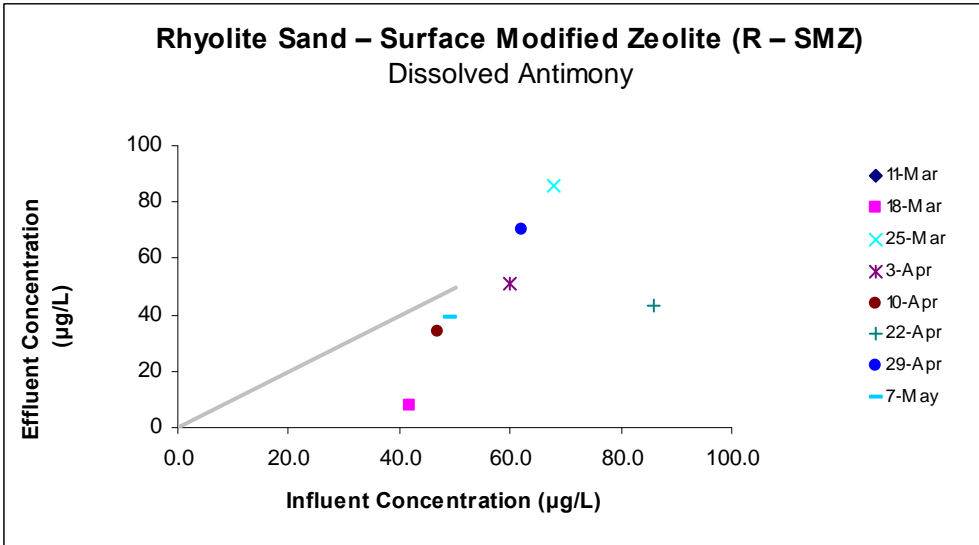
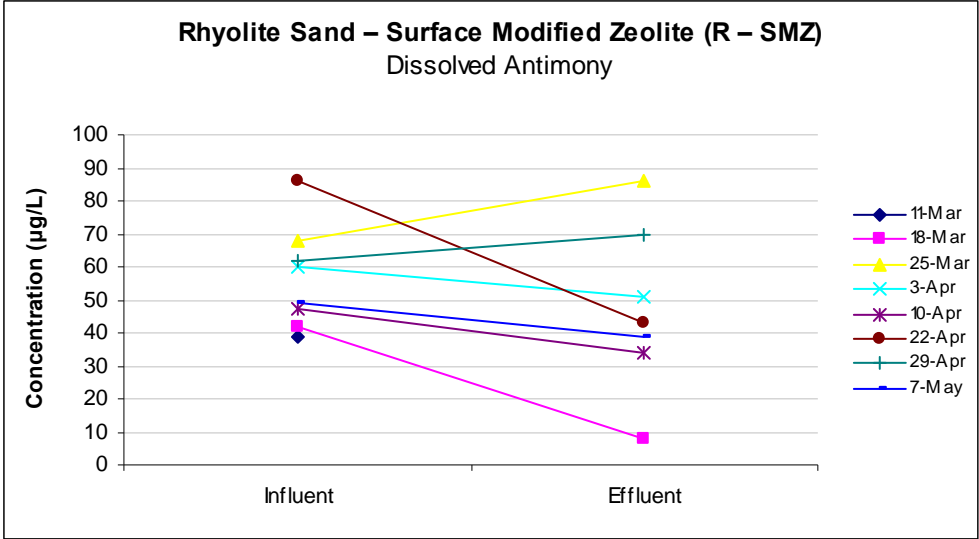
	df	SS	MS	F	Significance F
Regression	1.000	1090.677	1090.677	1.987	0.218
Residual	5.000	2744.751	548.950		
Total	6.000	3835.429			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-5.818	38.701	-0.150	0.886	-105.302	93.666	-105.302	93.666
X Variable 1	0.898	0.637	1.410	0.218	-0.740	2.535	-0.740	2.535

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	31.893	-23.893
2	55.238	30.762
3	48.055	2.945
4	36.383	-2.383
5	71.400	-28.400
6	49.851	20.149
7	38.179	0.821





## R-SMZ-G

### Total As

R-SMZ-GAC

#### SUMMARY OUTPUT

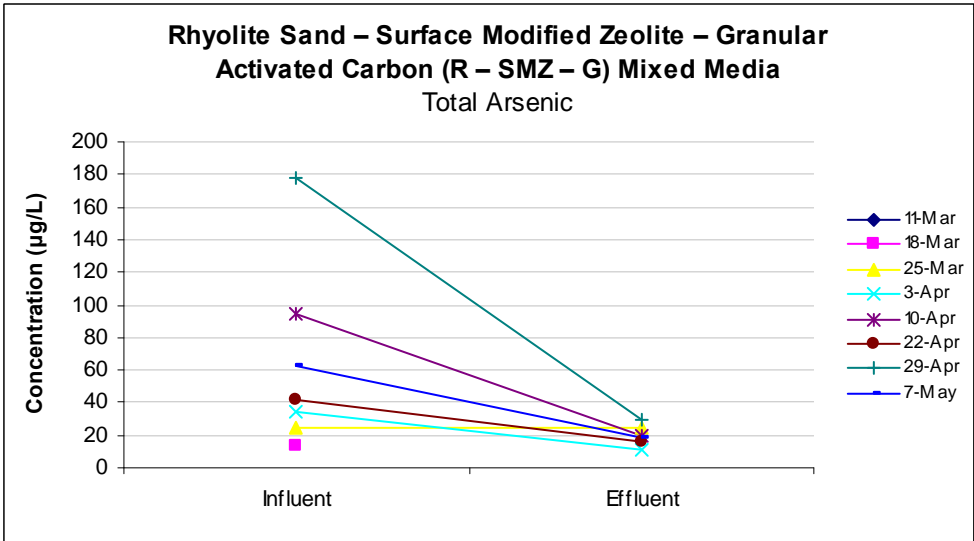
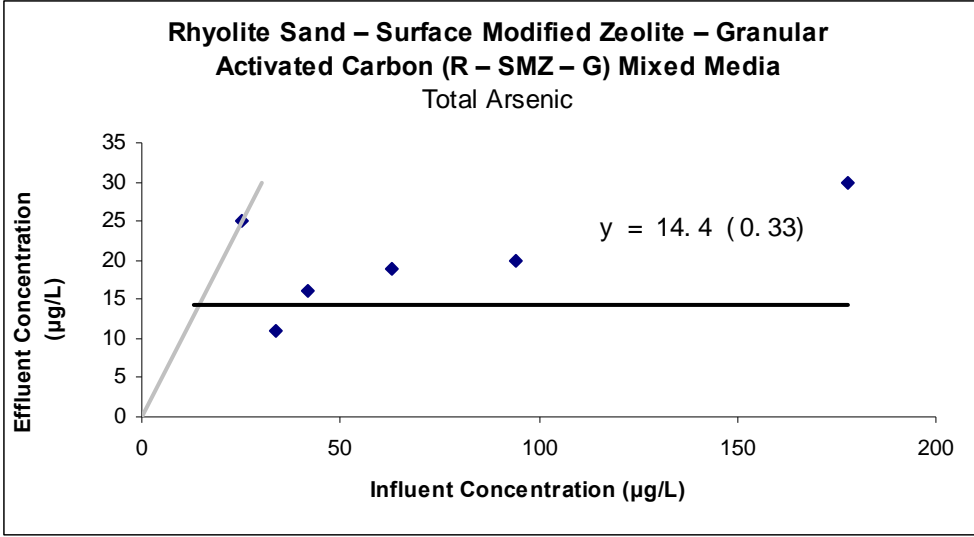
<i>Regression Statistics</i>	
Multiple R	0.679
R Square	0.461
Adjusted R Square	0.326
Standard Error	5.482
Observations	6.000

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1.000	102.615	102.615	3.414	0.138
Residual	4.000	120.219	30.055		
Total	5.000	222.833			

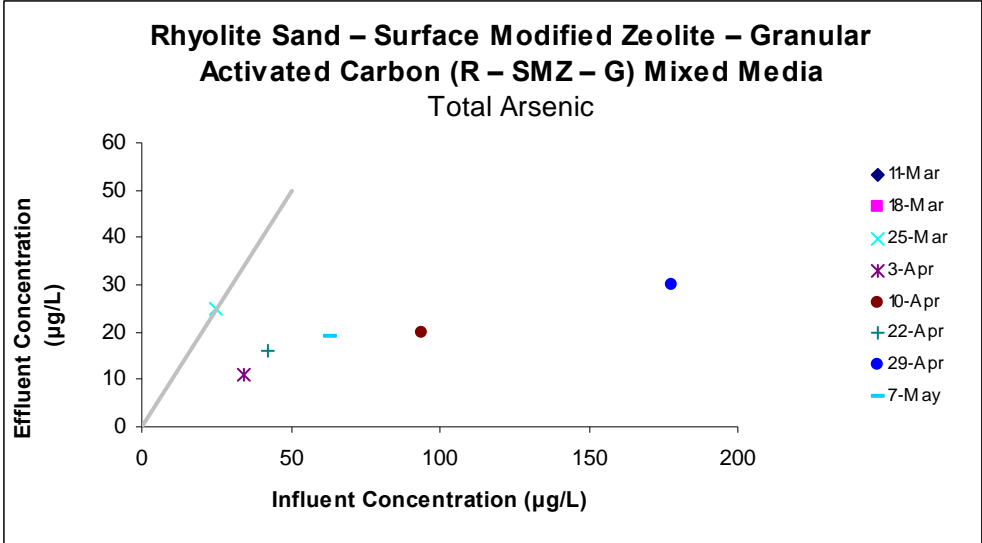
	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	14.410	3.836	3.757	0.020	3.760	25.061	3.760	25.061
X Variable 1	0.079	0.043	1.848	0.138	-0.040	0.198	-0.040	0.198

#### RESIDUAL OUTPUT

<i>Observation</i>	<i>Predicted Y</i>	<i>Residuals</i>
1	16.391	8.609
2	17.104	-6.104
3	21.857	-1.857
4	17.737	-1.737
5	28.511	1.489
6	19.401	-0.401







# Dissolved As

R-SMZ-GAC

## SUMMARY OUTPUT

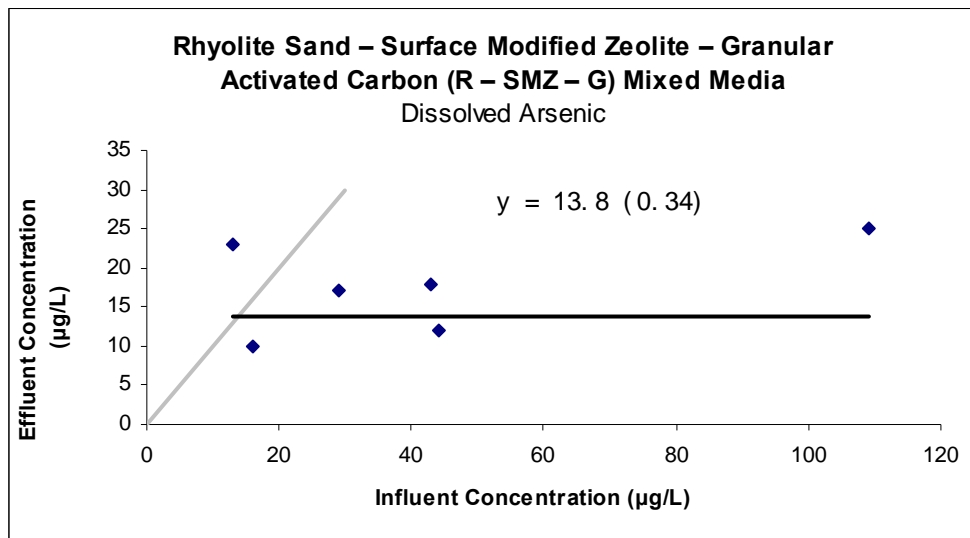
Regression Statistics	
Multiple R	0.516
R Square	0.266
Adjusted R Square	0.082
Standard Error	5.643
Observations	6.000

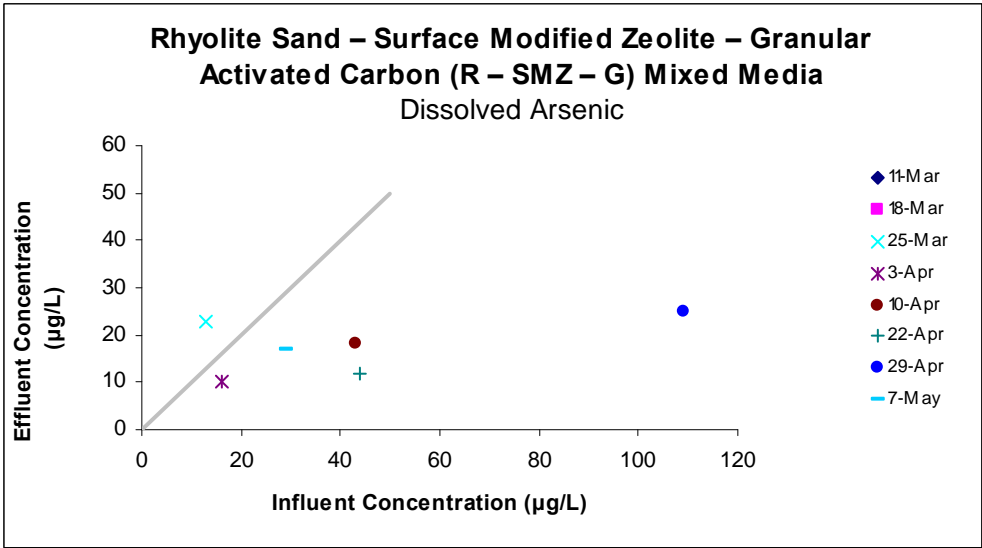
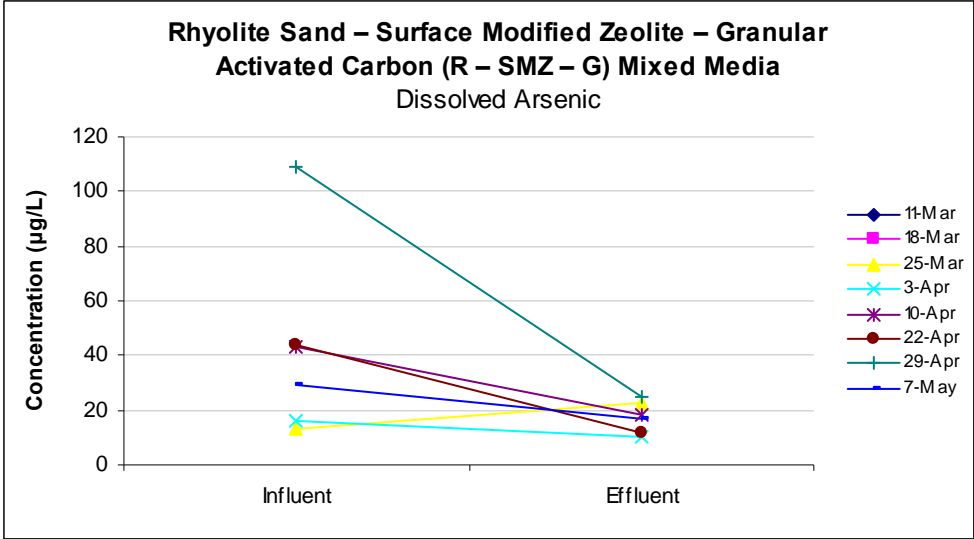
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	46.147	46.147	1.449	0.295
Residual	4.000	127.353	31.838		
Total	5.000	173.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	13.842	3.813	3.630	0.022	3.255	24.429	3.255	24.429
X Variable 1	0.086	0.072	1.204	0.295	-0.113	0.286	-0.113	0.286

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	14.965	8.035
2	15.224	-5.224
3	17.558	0.442
4	17.644	-5.644
5	23.261	1.739
6	16.348	0.652





# Total Al

R-SMZ-GAC

## SUMMARY OUTPUT

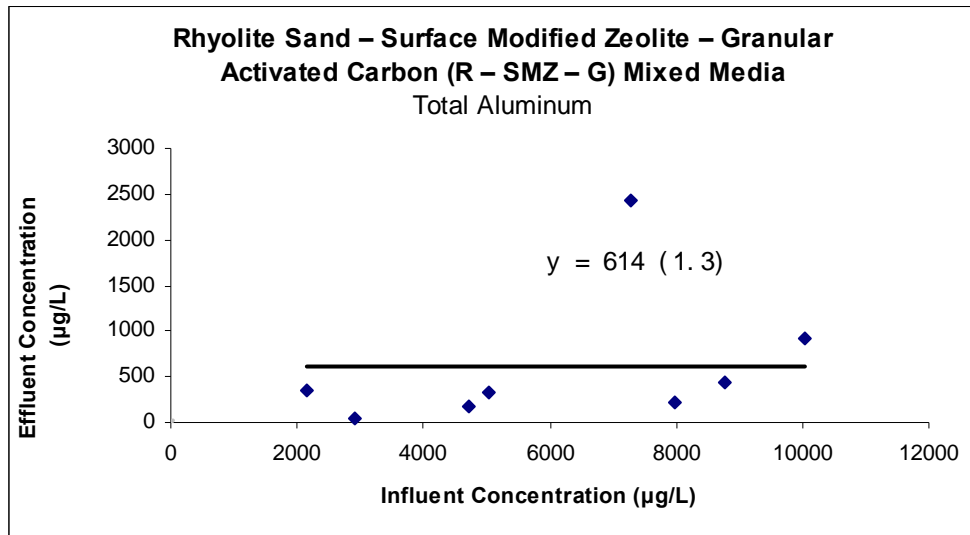
Regression Statistics	
Multiple R	0.379
R Square	0.144
Adjusted R Square	0.001
Standard Error	780.612
Observations	8.000

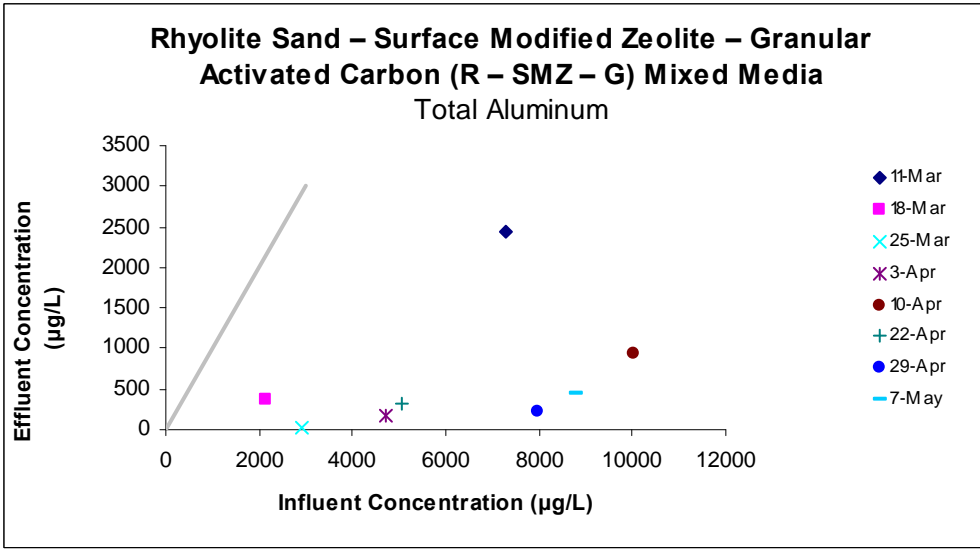
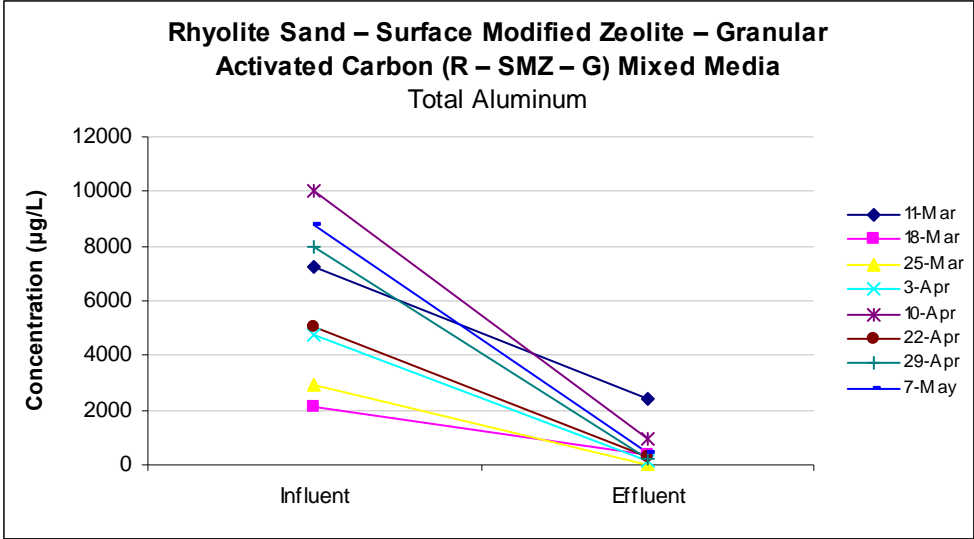
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	613512.408	613512.408	1.007	0.354
Residual	6.000	3656127.592	609354.599		
Total	7.000	4269640.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-24.120	693.258	-0.035	0.973	-1720.462	1672.222	-1720.462	1672.222
X Variable 1	0.104	0.104	1.003	0.354	-0.150	0.359	-0.150	0.359

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	735.158	1698.842
2	200.793	160.207
3	279.487	-243.487
4	469.646	-293.646
5	1023.423	-98.423
6	502.522	-174.522
7	808.947	-589.947
8	892.024	-459.024





# Dissolved Al

R-SMZ-GAC

## SUMMARY OUTPUT

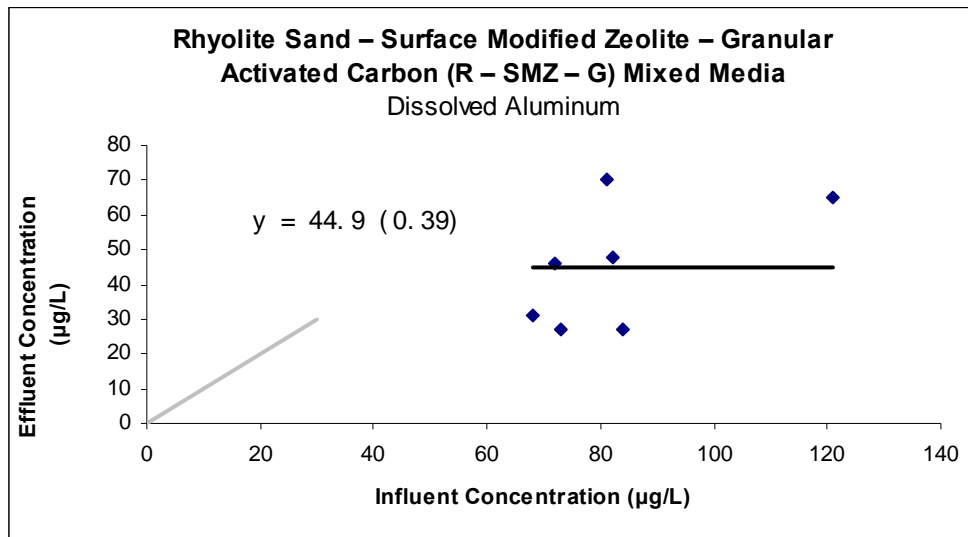
Regression Statistics	
Multiple R	0.566
R Square	0.320
Adjusted R Square	0.184
Standard Error	15.983
Observations	7.000

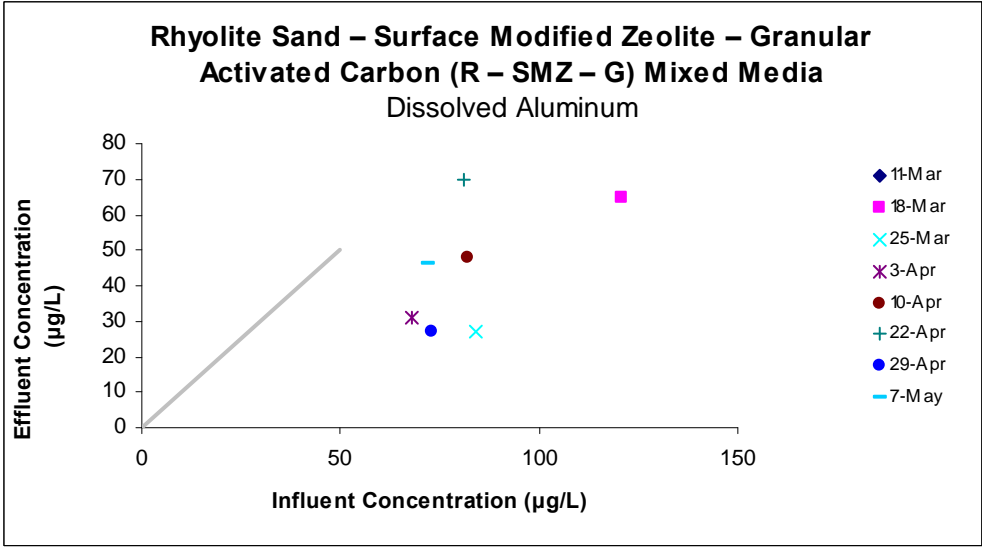
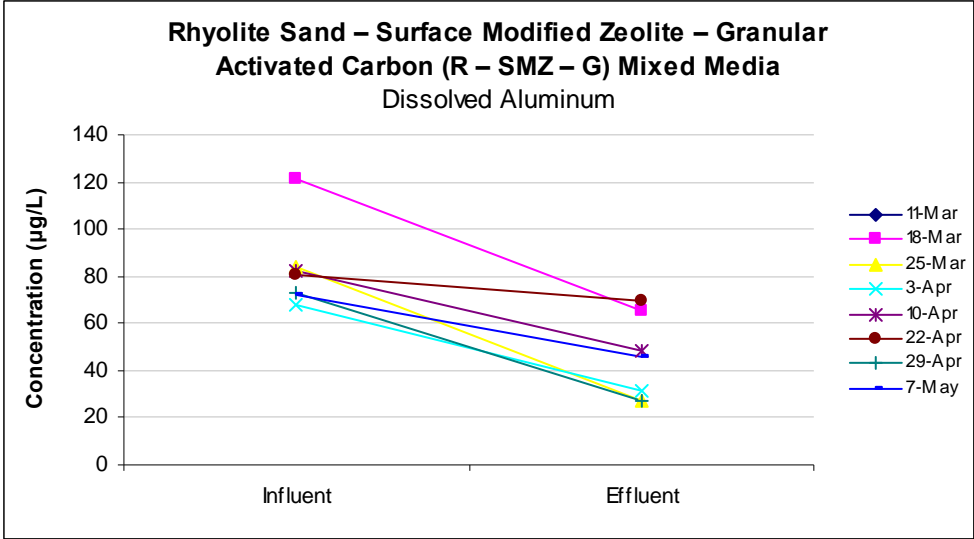
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	601.595	601.595	2.355	0.185
Residual	5.000	1277.262	255.452		
Total	6.000	1878.857			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-1.896	31.059	-0.061	0.954	-81.736	77.944	-81.736	77.944
X Variable 1	0.563	0.367	1.535	0.185	-0.380	1.507	-0.380	1.507

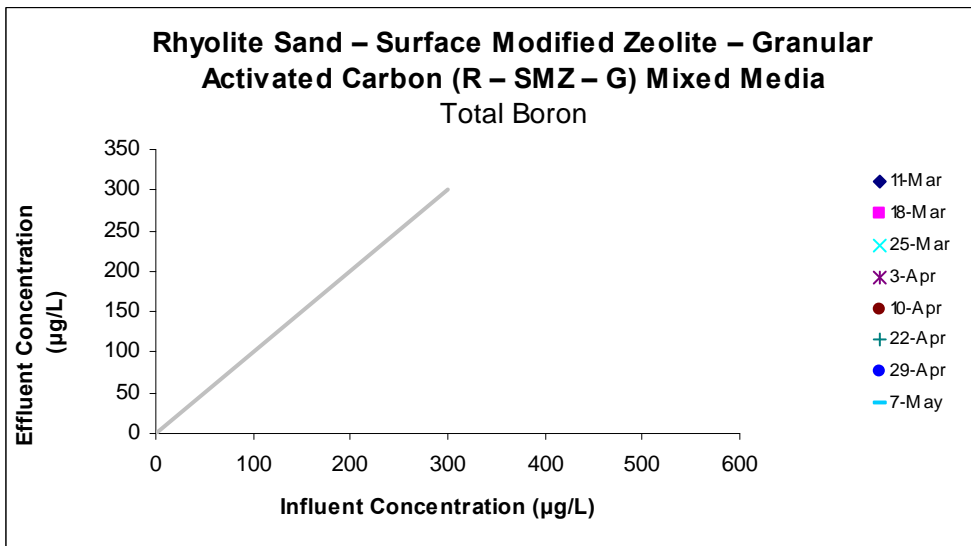
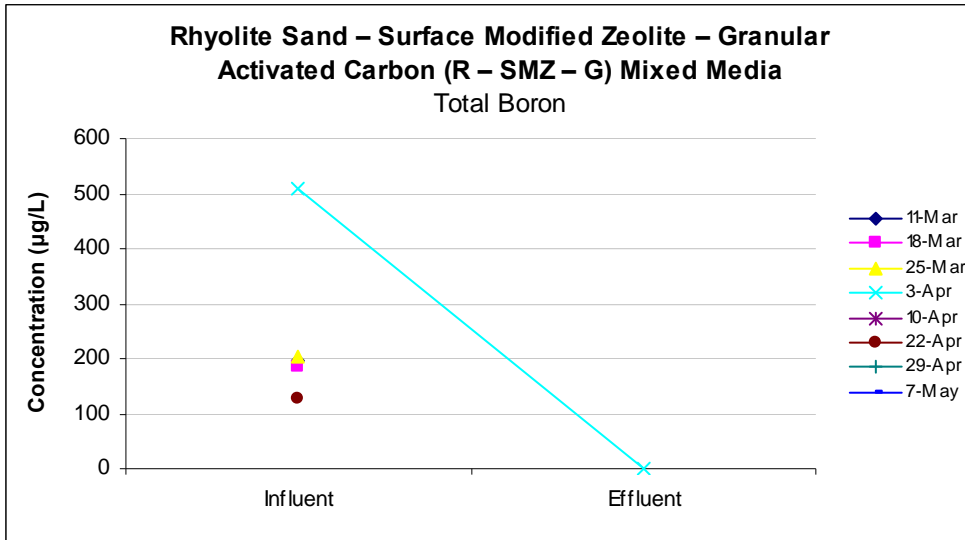
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	66.262	-1.262
2	45.420	-18.420
3	36.408	-5.408
4	44.294	3.706
5	43.731	26.269
6	39.224	-12.224
7	38.661	7.339



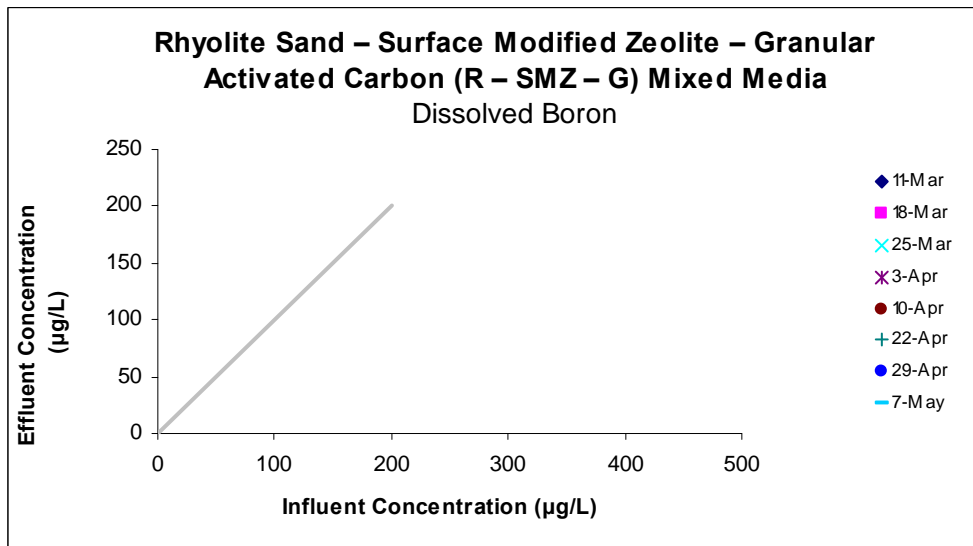
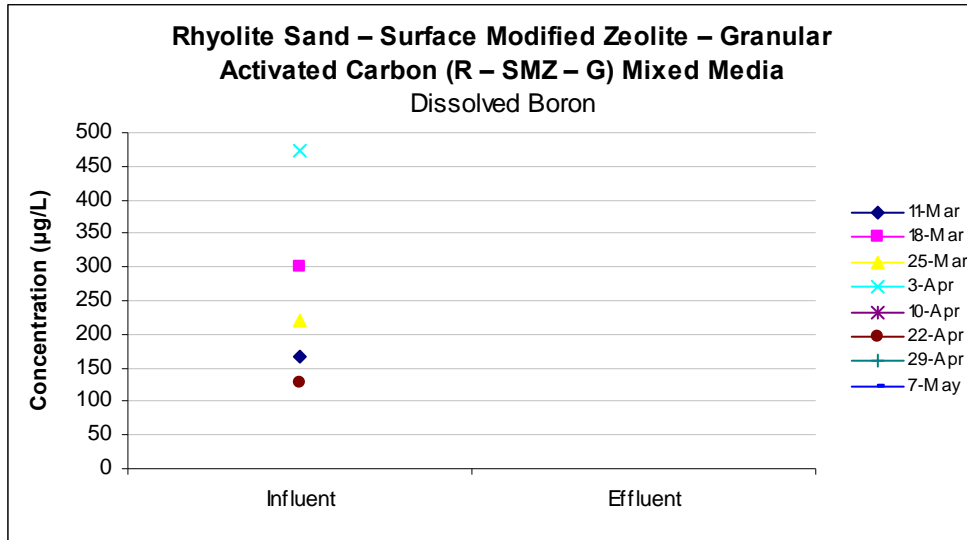


Total B





Dissolved B



# Total Ca

R-SMZ-GAC

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.578
R Square	0.335
Adjusted R Square	0.224
Standard Error	13495.971
Observations	8.000

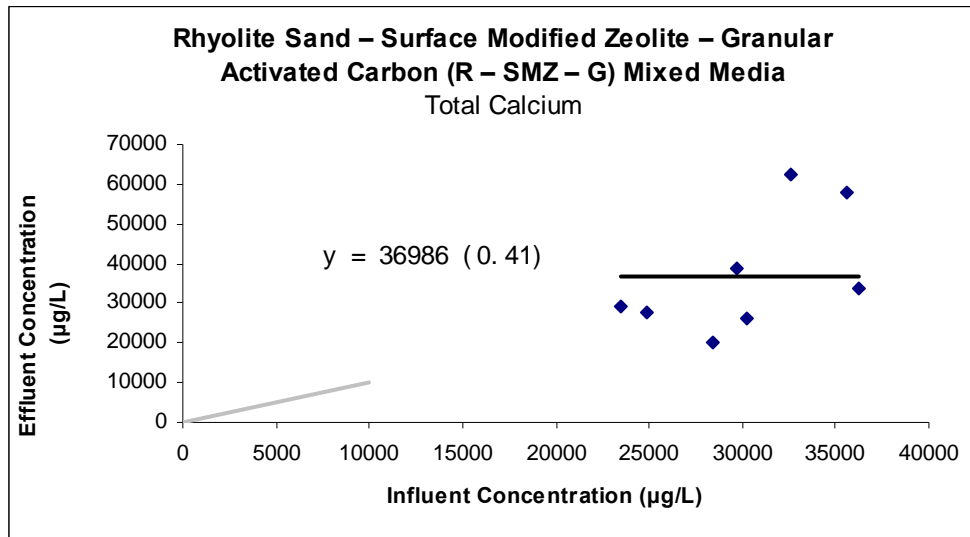
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	549430003.321	549430003.321	3.017	0.133
Residual	6.000	1092847426.554	182141237.759		
Total	7.000	1642277429.875			

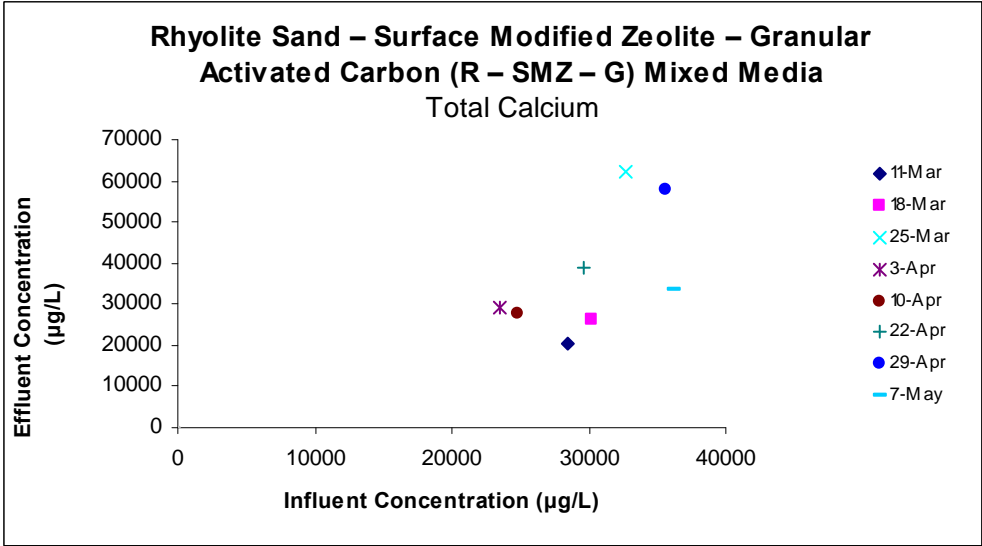
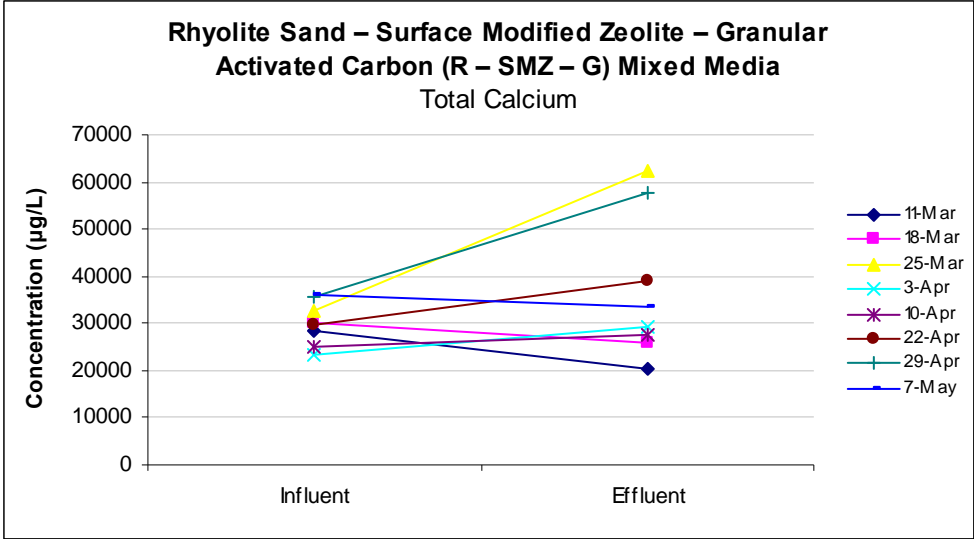
  

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-20907.981	33673.529	-0.621	0.557	-103304.139	61488.177	-103304.139	61488.177
X Variable 1	1.921	1.106	1.737	0.133	-0.785	4.627	-0.785	4.627

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	33679.230	-13407.230
2	37115.300	-11030.300
3	41778.674	20592.326
4	24191.147	4955.853
5	26851.267	664.733
6	36058.934	2941.066
7	47467.682	10342.318
8	48748.766	-15058.766





# Dissolved Ca

R-SMZ-GAC

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.362
R Square	0.131
Adjusted R Square	-0.014
Standard Error	12811.461
Observations	8.000

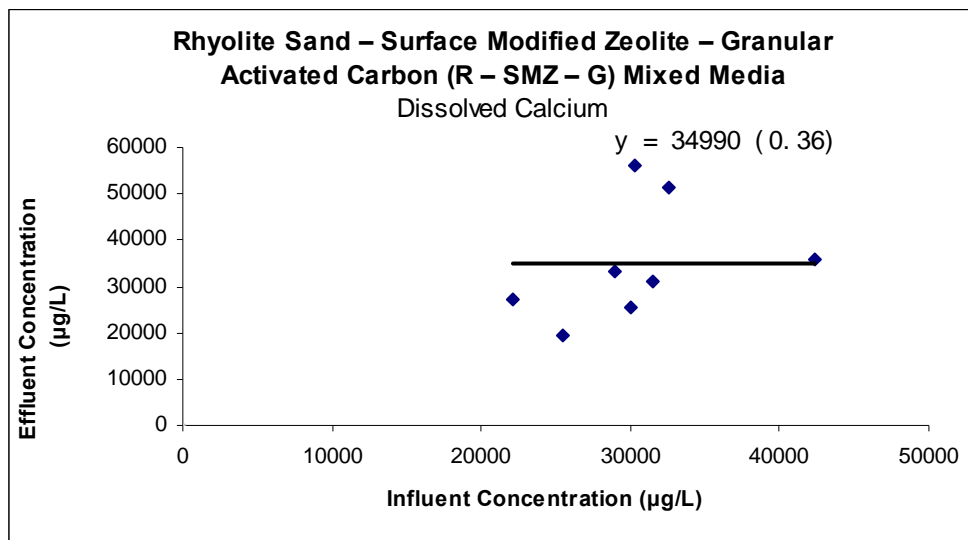
## ANOVA

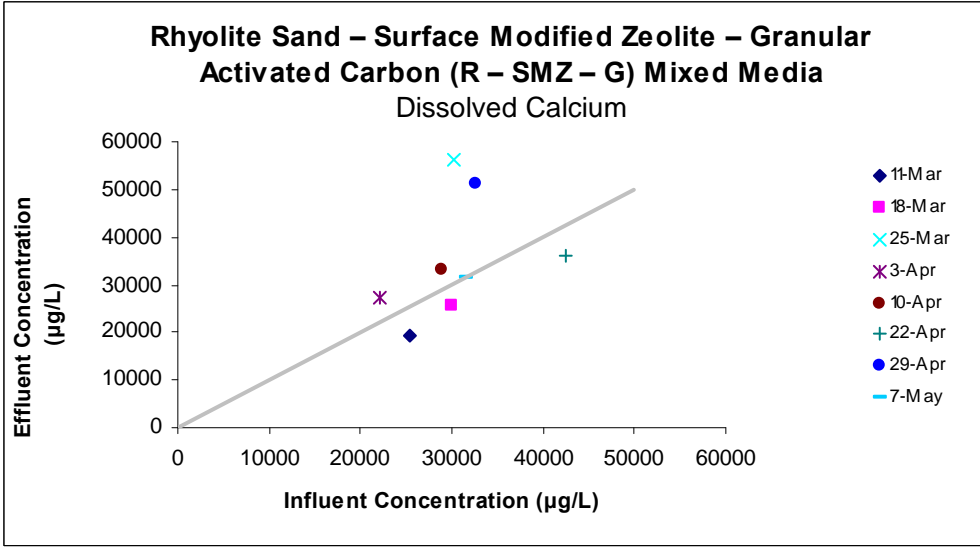
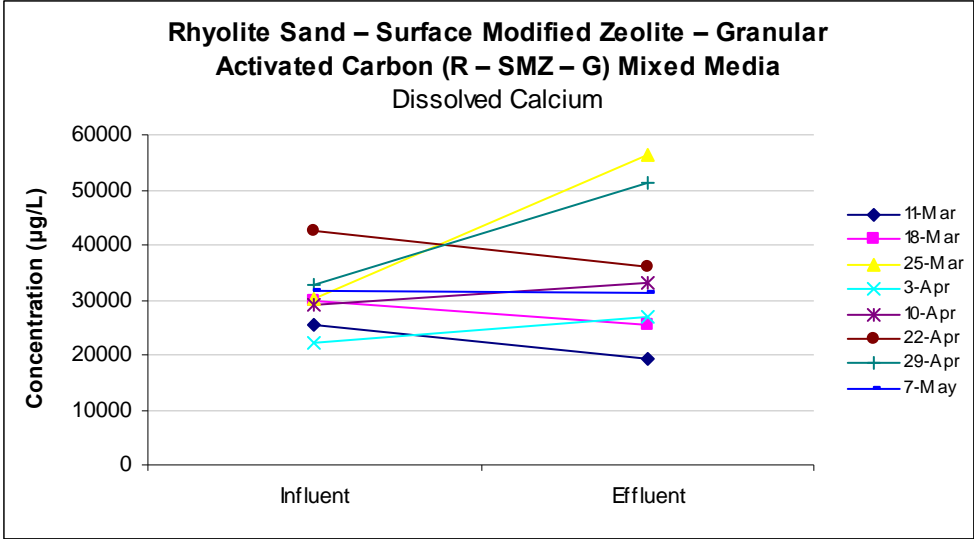
	df	SS	MS	F	Significance F
Regression	1.000	148529103.770	148529103.770	0.905	0.378
Residual	6.000	984801258.105	164133543.017		
Total	7.000	1133330361.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	11288.793	25323.138	0.446	0.671	-50674.694	73252.280	-50674.694	73252.280
X Variable 1	0.779	0.819	0.951	0.378	-1.225	2.782	-1.225	2.782

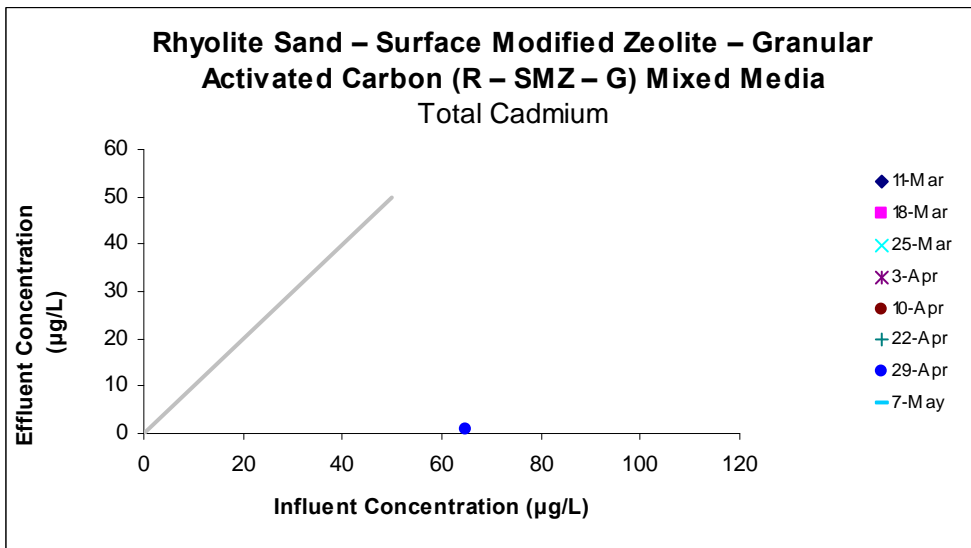
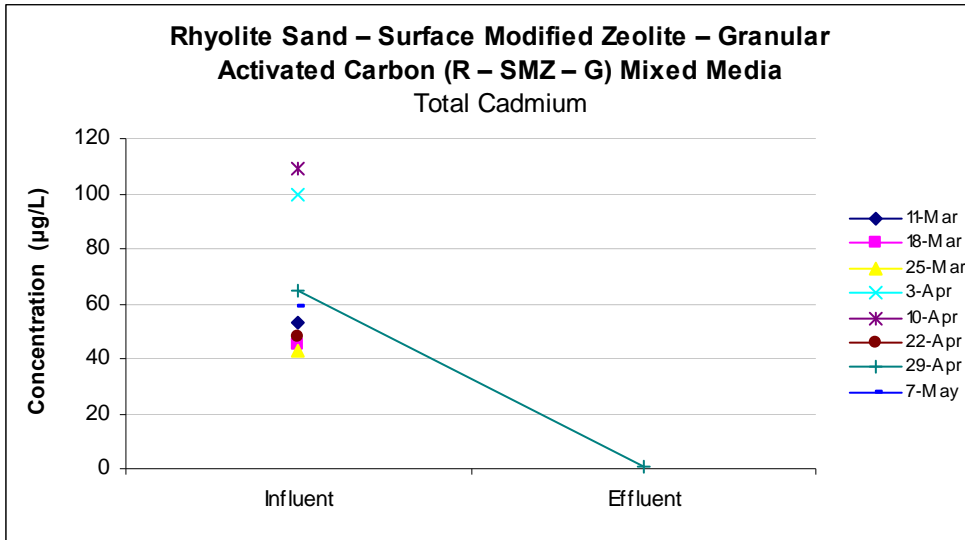
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	31151.828	-11885.828
2	34642.912	-9031.912
3	34862.565	21420.435
4	28539.357	-1463.357
5	33853.095	-712.095
6	44322.451	-8282.451
7	36704.692	14525.308
8	35840.100	-4570.100

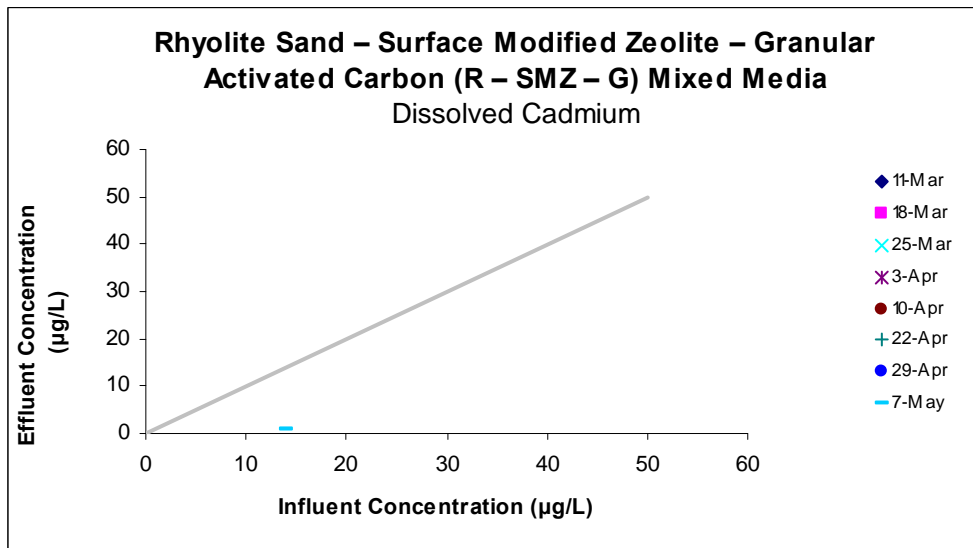
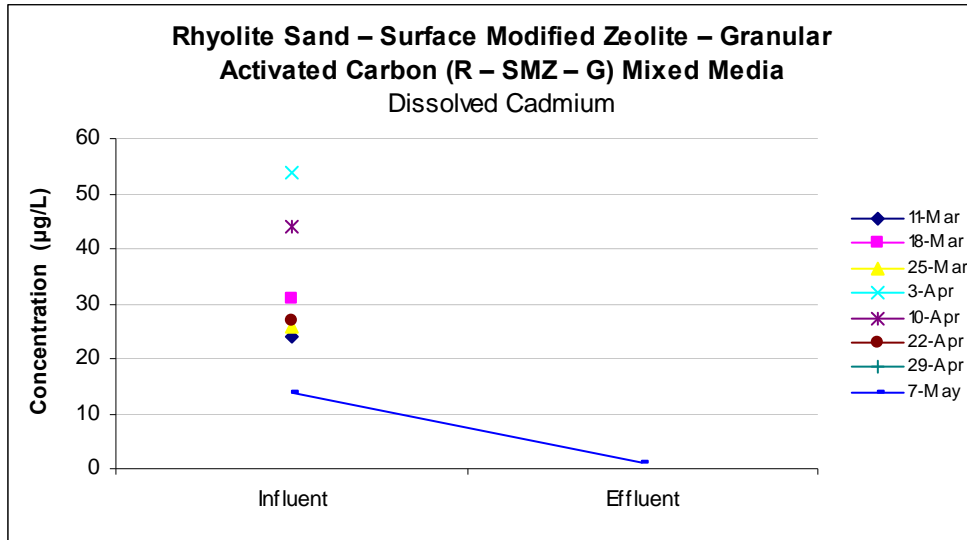




Total Cd



Dissolved Cd



# Total Cu

R-SMZ-GAC

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.404
R Square	0.163
Adjusted R Square	-0.116
Standard Error	5.335
Observations	5.000

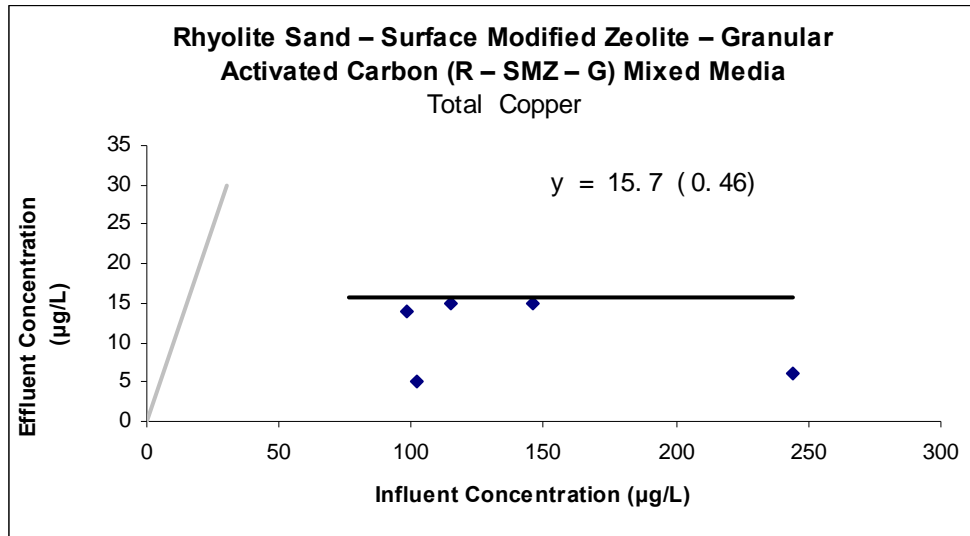
## ANOVA

	df	SS	MS	F	Significance F
Regression	1.000	16.624	16.624	0.584	0.500
Residual	3.000	85.376	28.459		
Total	4.000	102.000			

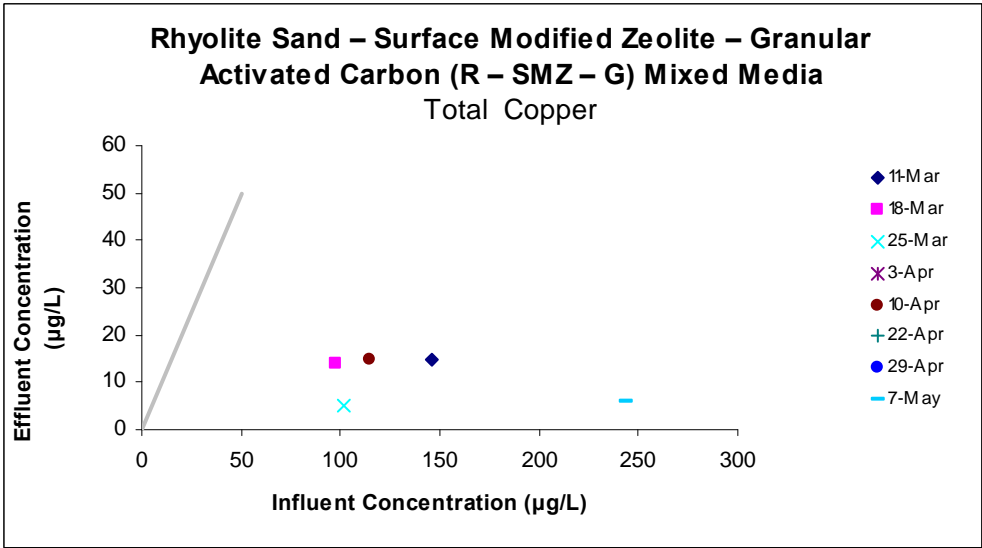
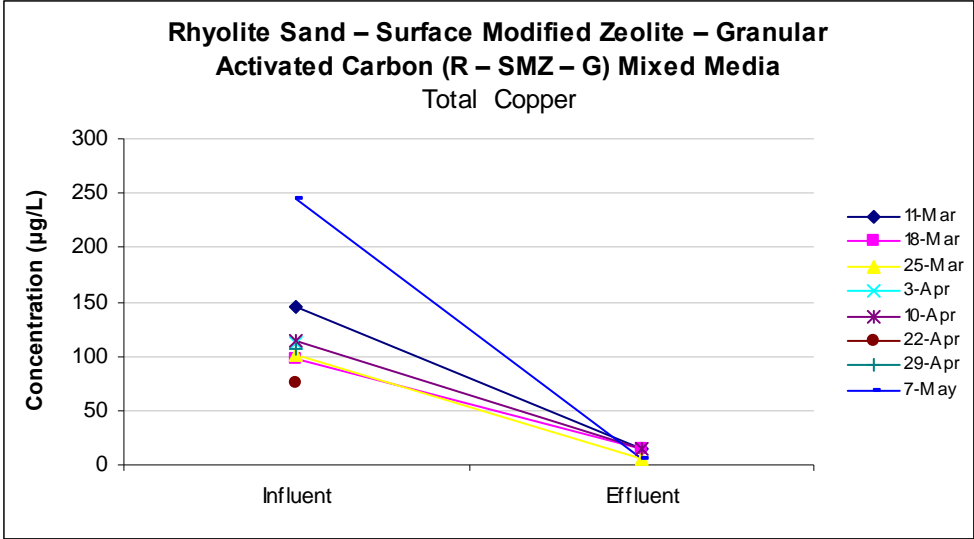
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	15.745	6.651	2.367	0.099	-5.421	36.911	-5.421	36.911
X Variable 1	-0.034	0.044	-0.764	0.500	-0.174	0.106	-0.174	0.106

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	10.832	4.168
2	12.447	1.553
3	12.312	-7.312
4	11.875	3.125
5	7.534	-1.534







# Dissolved Cu

R-SMZ-GAC

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.546
R Square	0.298
Adjusted R Square	0.064
Standard Error	4.980
Observations	5.000

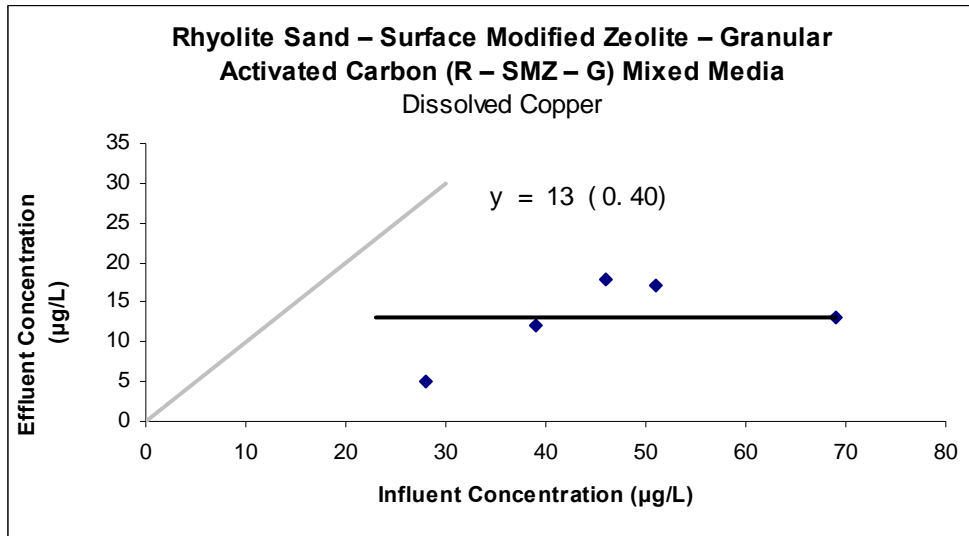
## ANOVA

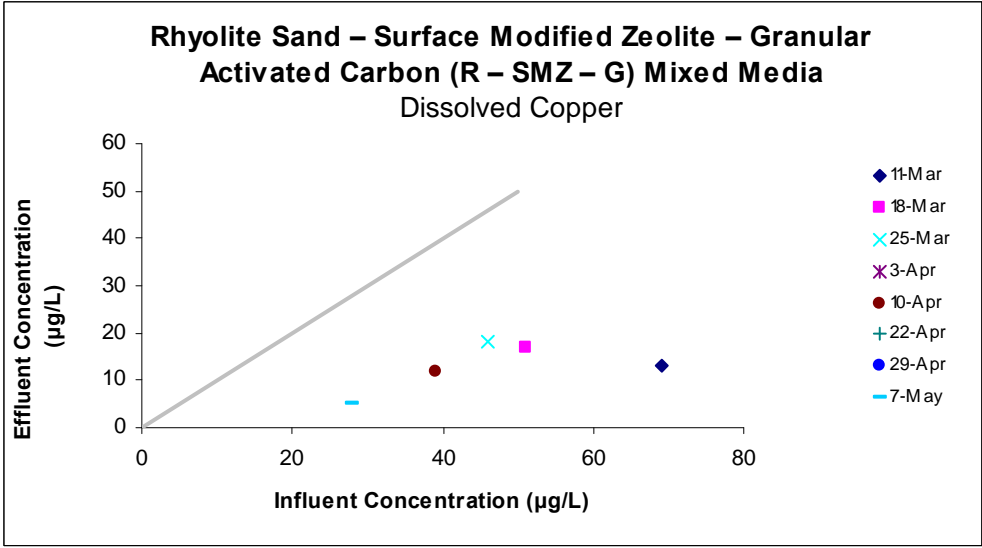
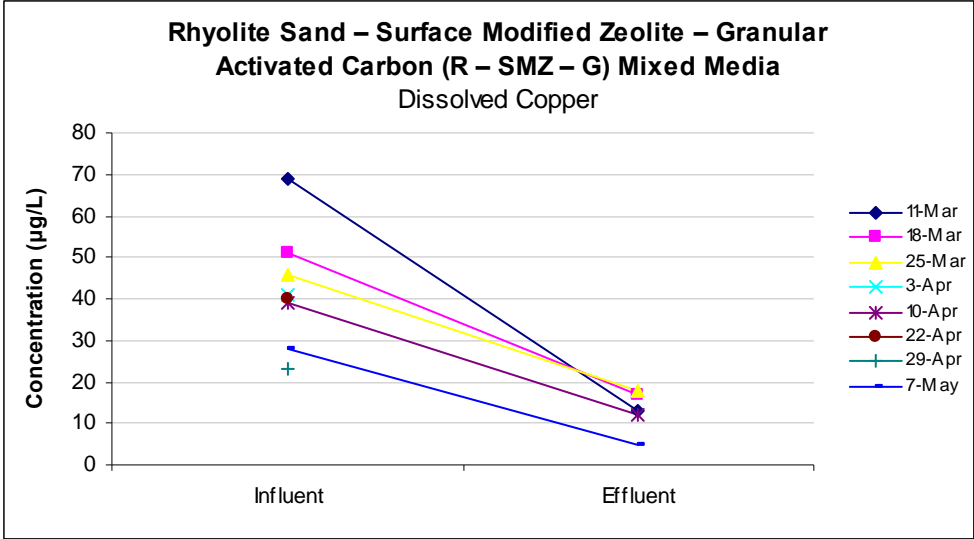
	df	SS	MS	F	Significance F
Regression	1.000	31.605	31.605	1.274	0.341
Residual	3.000	74.395	24.798		
Total	4.000	106.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	4.387	7.948	0.552	0.619	-20.906	29.680	-20.906	29.680
X Variable 1	0.185	0.164	1.129	0.341	-0.336	0.706	-0.336	0.706

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	17.140	-4.140
2	13.813	3.187
3	12.889	5.111
4	11.595	0.405
5	9.562	-4.562





# Total Fe

R-SMZ-GAC

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.231
R Square	0.053
Adjusted R Square	-0.104
Standard Error	225.725
Observations	8.000

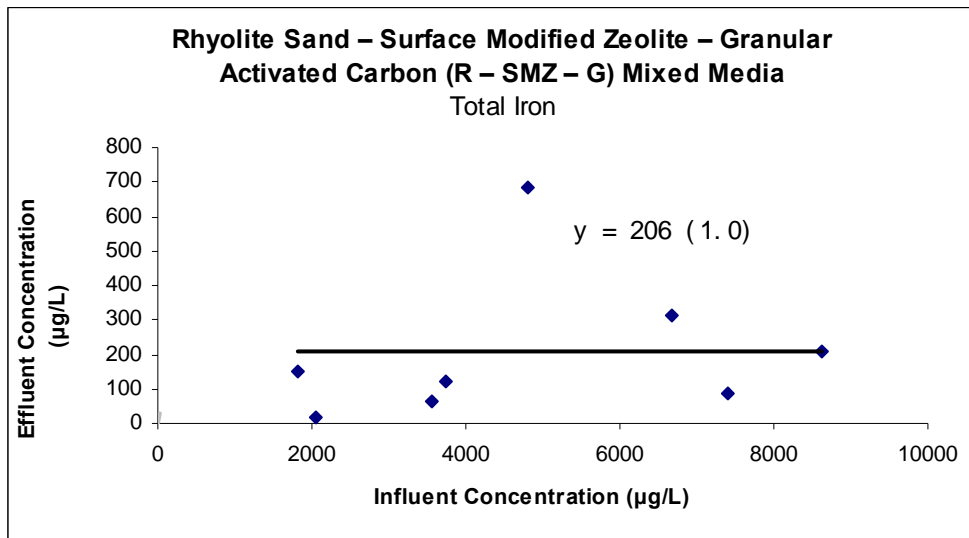
## ANOVA

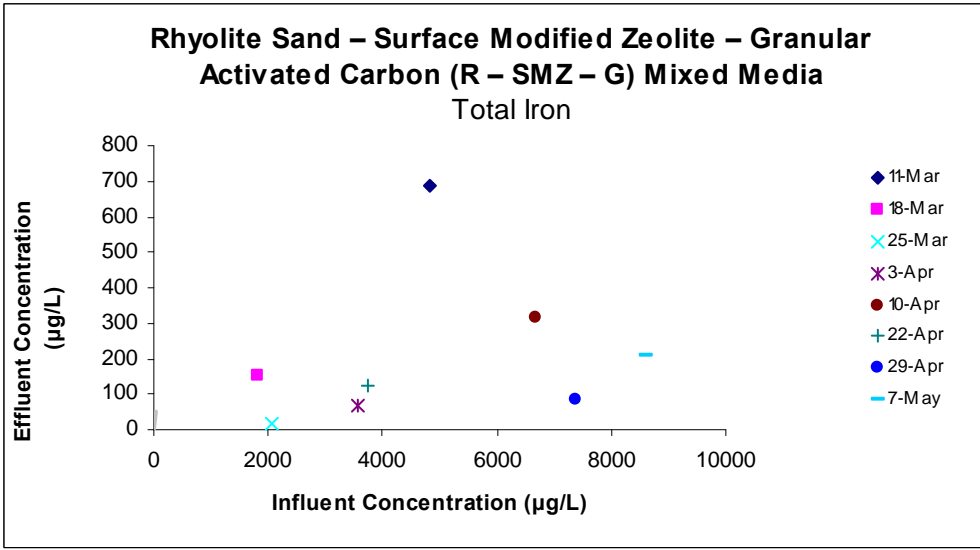
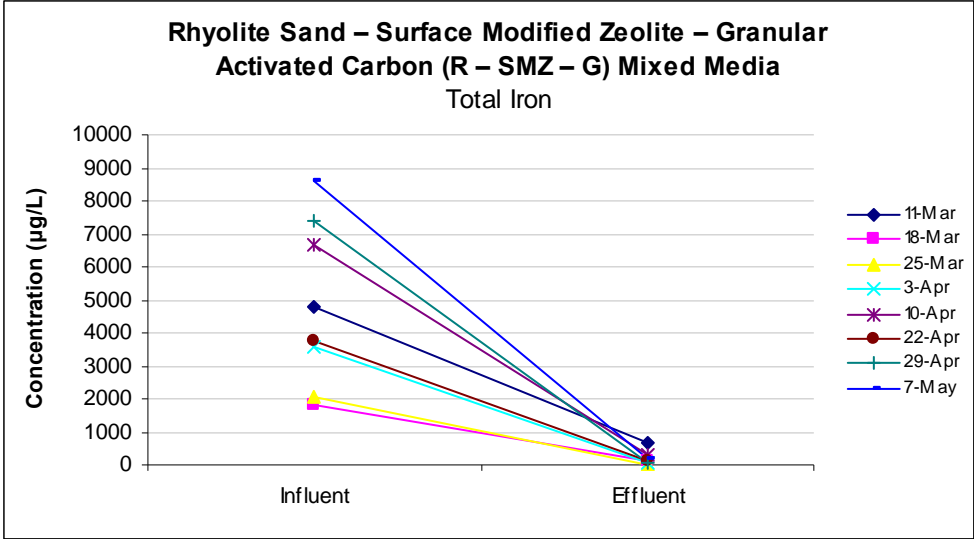
	df	SS	MS	F	Significance F
Regression	1.000	17219.938	17219.938	0.338	0.582
Residual	6.000	305711.562	50951.927		
Total	7.000	322931.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	110.508	183.007	0.604	0.568	-337.293	558.310	-337.293	558.310
X Variable 1	0.020	0.034	0.581	0.582	-0.064	0.103	-0.064	0.103

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	205.780	480.220
2	146.550	4.450
3	151.065	-136.065
4	180.967	-115.967
5	242.870	71.130
6	184.769	-62.769
7	256.891	-170.891
8	281.109	-70.109





# Dissolved Fe

R-SMZ-GAC

## SUMMARY OUTPUT

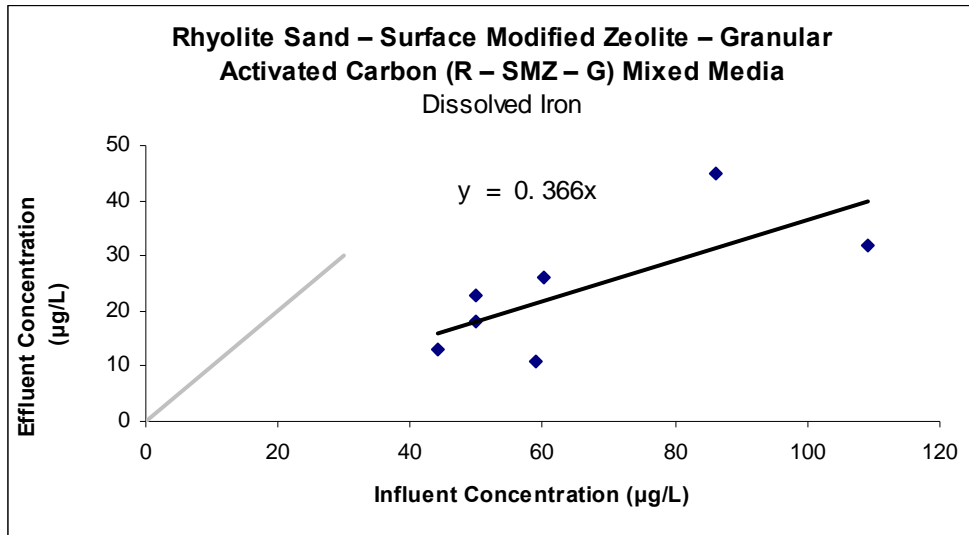
Regression Statistics	
Multiple R	0.957
R Square	0.917
Adjusted R Square	0.750
Standard Error	8.222
Observations	7.000

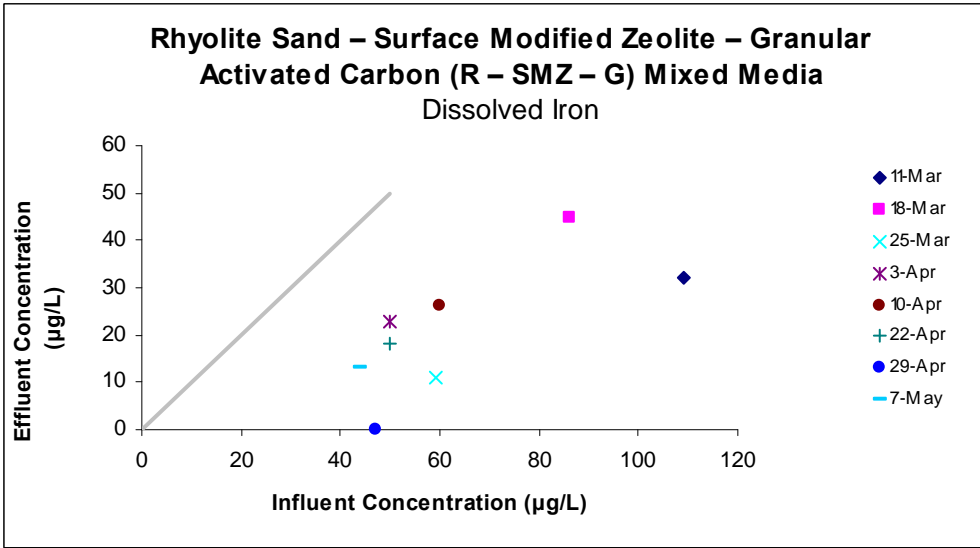
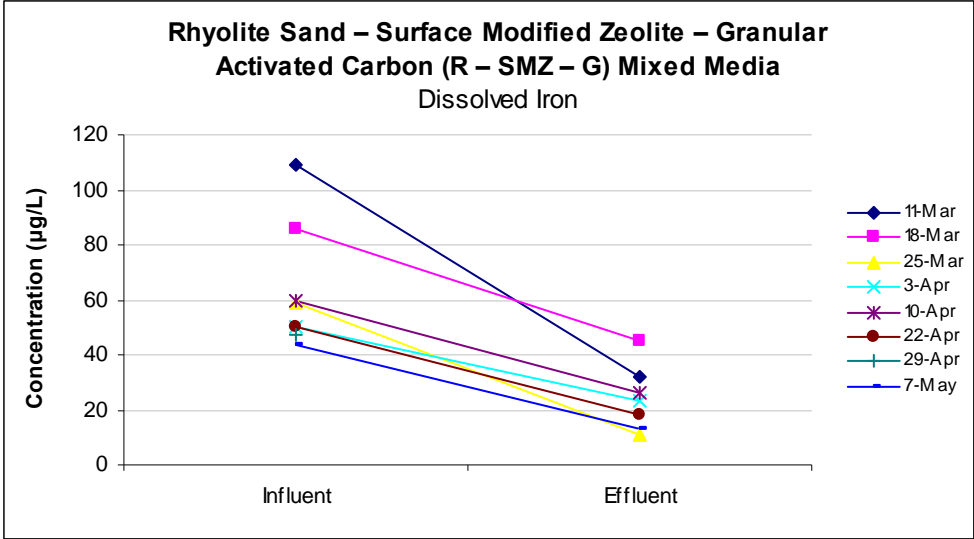
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	4462.417	4462.417	66.015	0.000
Residual	6.000	405.583	67.597		
Total	7.000	4868.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	0.366	0.045	8.125	0.000	0.256	0.476	0.256	0.476

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	39.905	-7.905
2	31.485	13.515
3	21.600	-10.600
4	18.305	4.695
5	21.966	4.034
6	18.305	-0.305
7	16.108	-3.108





# Total Mg

R-SMZ-GAC

## SUMMARY OUTPUT

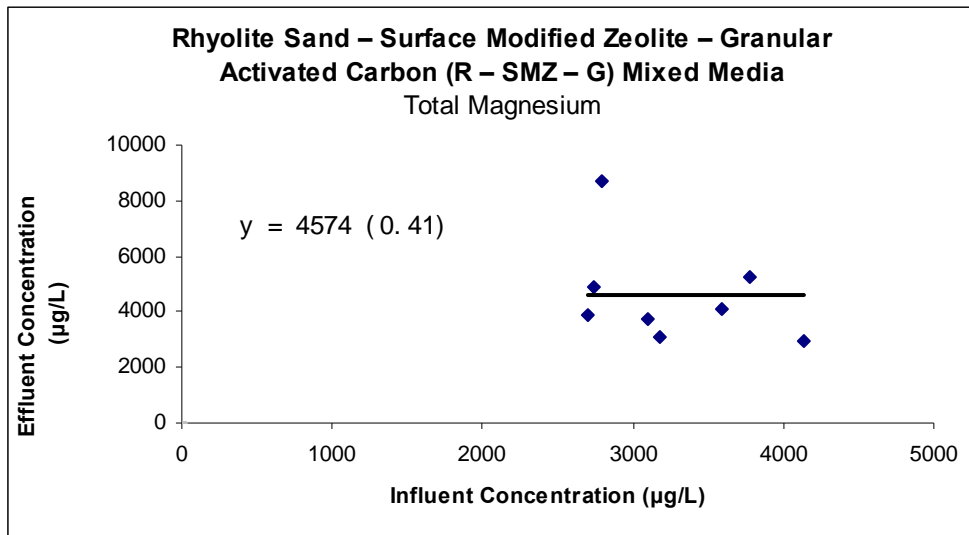
Regression Statistics	
Multiple R	0.392
R Square	0.154
Adjusted R Square	0.013
Standard Error	1844.014
Observations	8.000

ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	3706696.452	3706696.452	1.090	0.337
Residual	6.000	20402317.048	3400386.175		
Total	7.000	24109013.500			

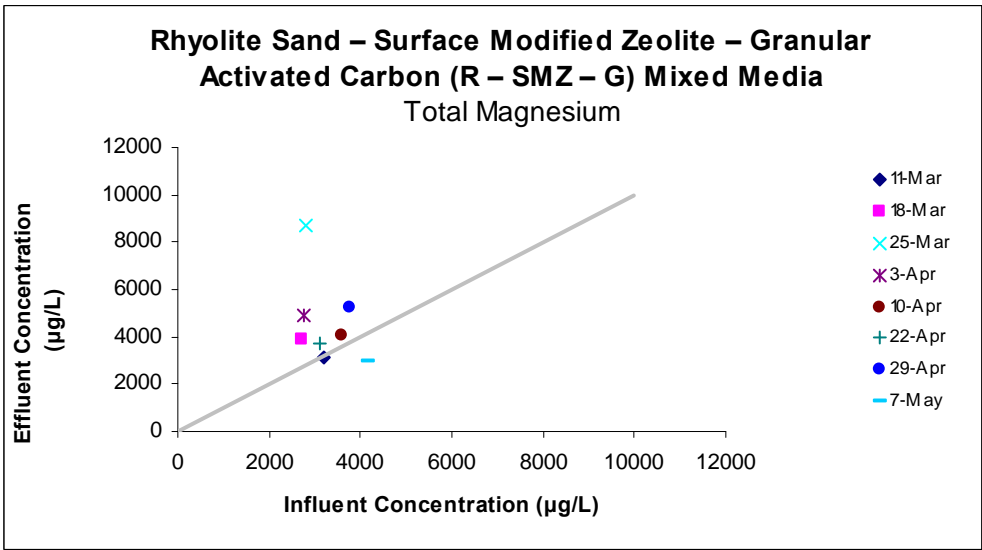
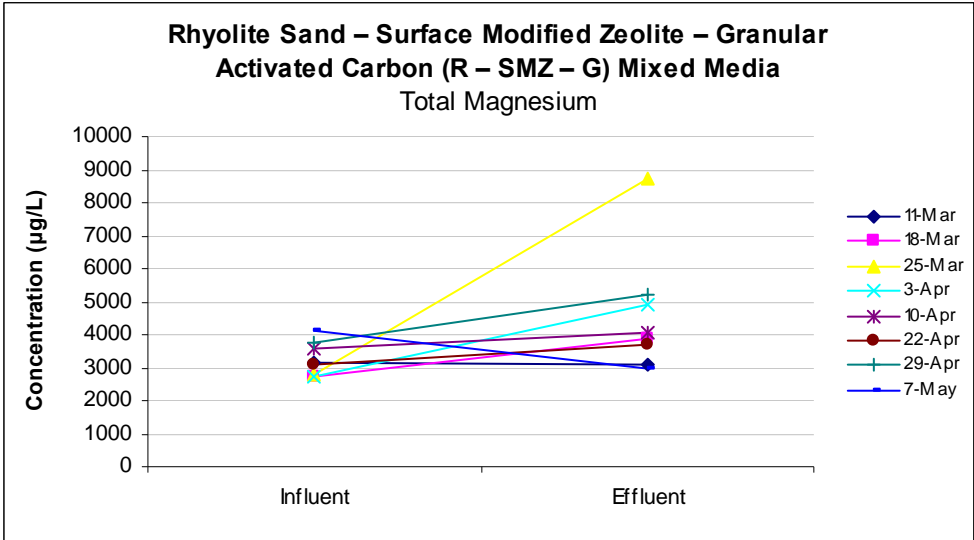
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	9032.669	4319.241	2.091	0.081	-1536.133	19601.472	-1536.133	19601.472
X Variable 1	-1.371	1.313	-1.044	0.337	-4.583	1.842	-4.583	1.842

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	4675.155	-1563.155
2	5324.876	-1463.876
3	5209.735	3530.265
4	5271.418	-381.418
5	4111.790	-27.790
6	4784.813	-1078.813
7	3860.948	1375.052
8	3359.265	-390.265







# Dissolved Mg

R-SMZ-GAC

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.048
R Square	0.002
Adjusted R Square	-0.164
Standard Error	1795.302
Observations	8.000

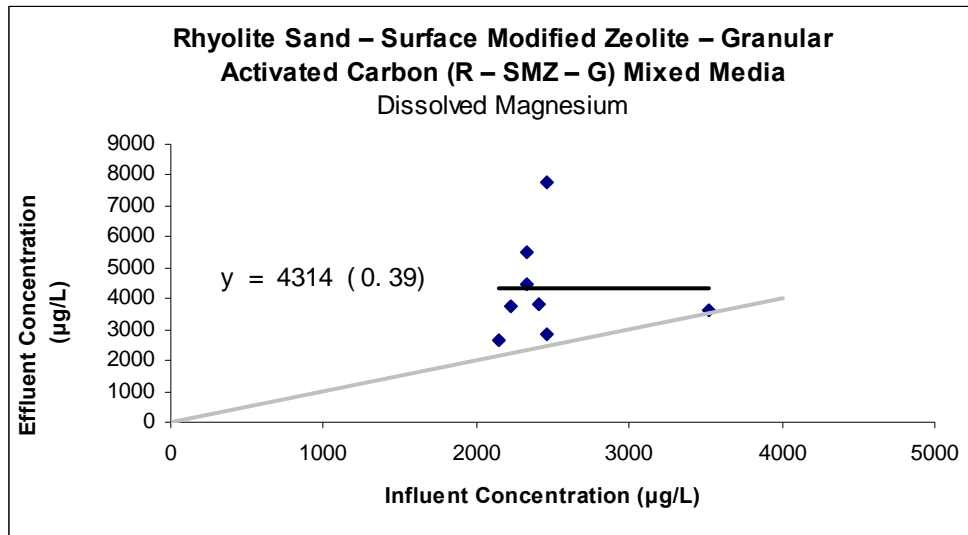
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	45052.407	45052.407	0.014	0.910
Residual	6.000	19338663.093	3223110.515		
Total	7.000	19383715.500			

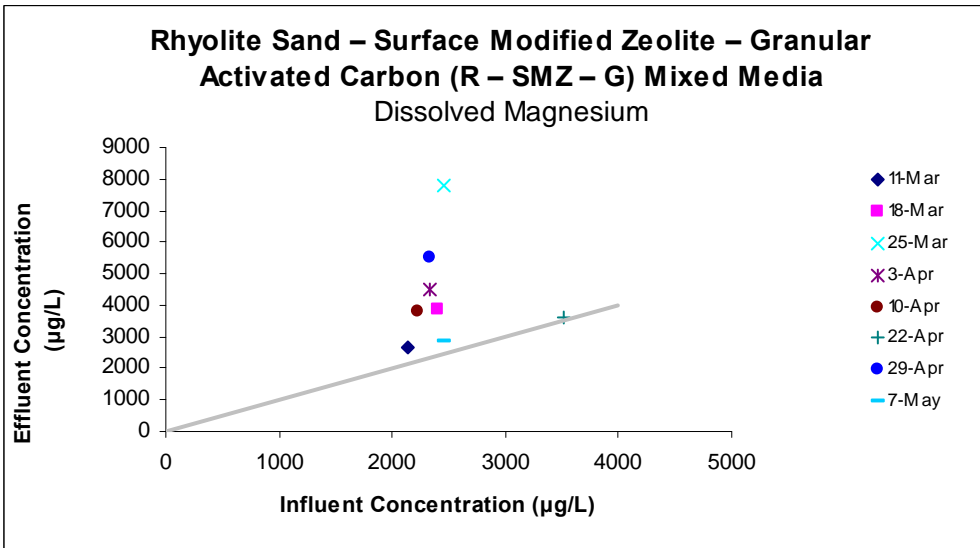
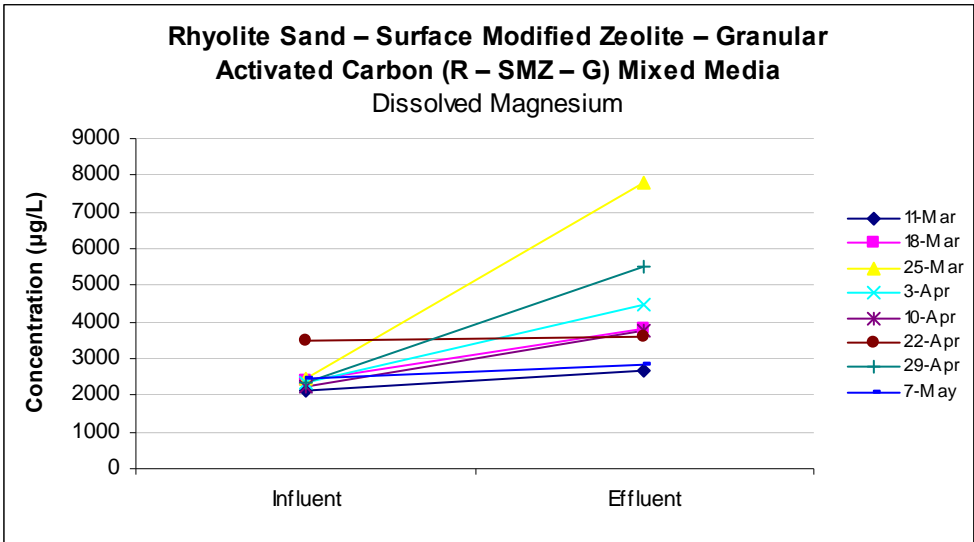
  

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	4775.467	3952.376	1.208	0.272	-4895.648	14446.582	-4895.648	14446.582
X Variable 1	-0.186	1.571	-0.118	0.910	-4.029	3.658	-4.029	3.658

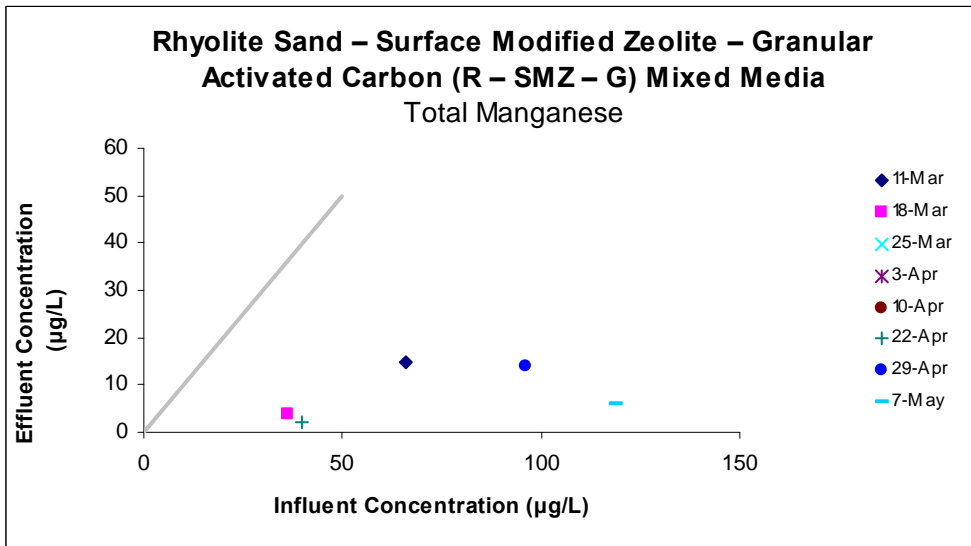
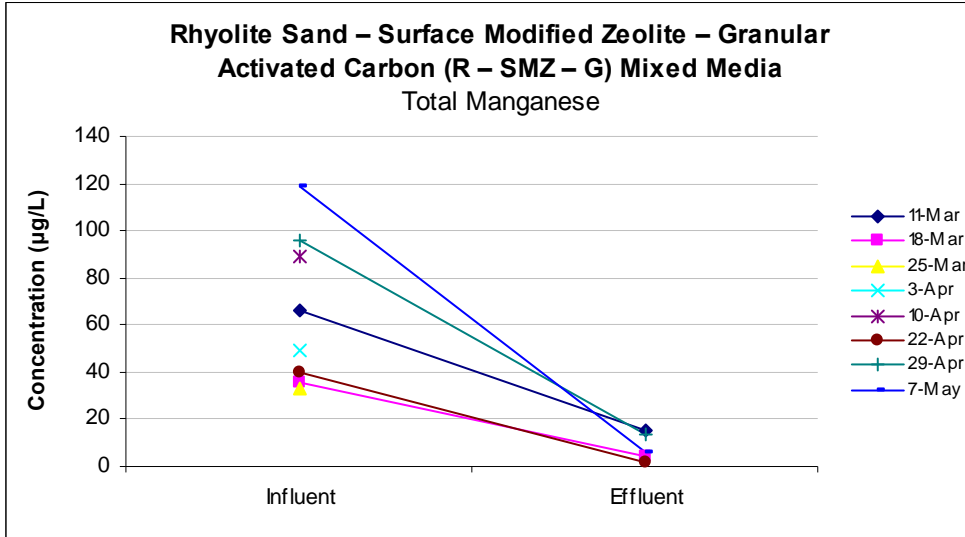
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	4377.299	-1716.299
2	4329.014	-493.014
3	4318.057	3459.943
4	4343.314	138.686
5	4363.000	-576.000
6	4122.316	-526.316
7	4341.828	1181.172
8	4319.171	-1468.171

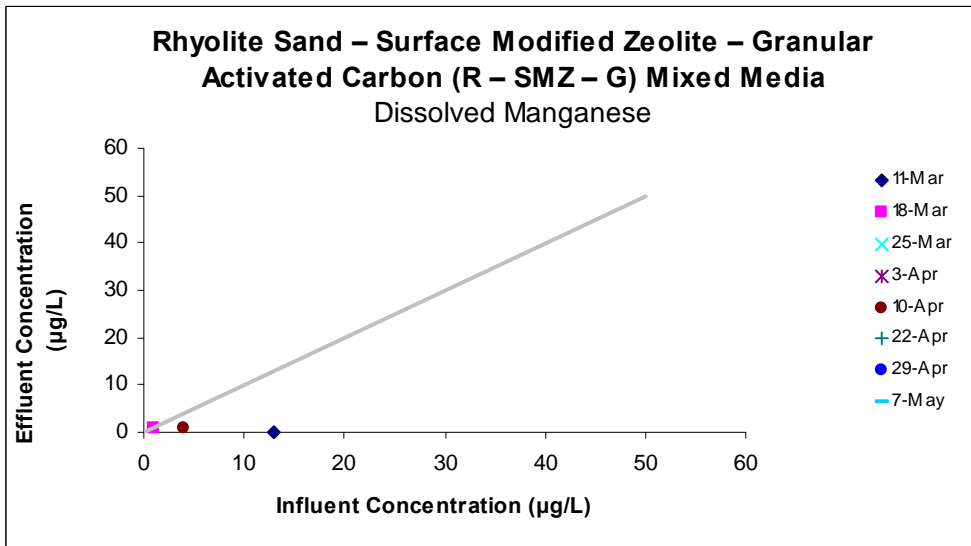
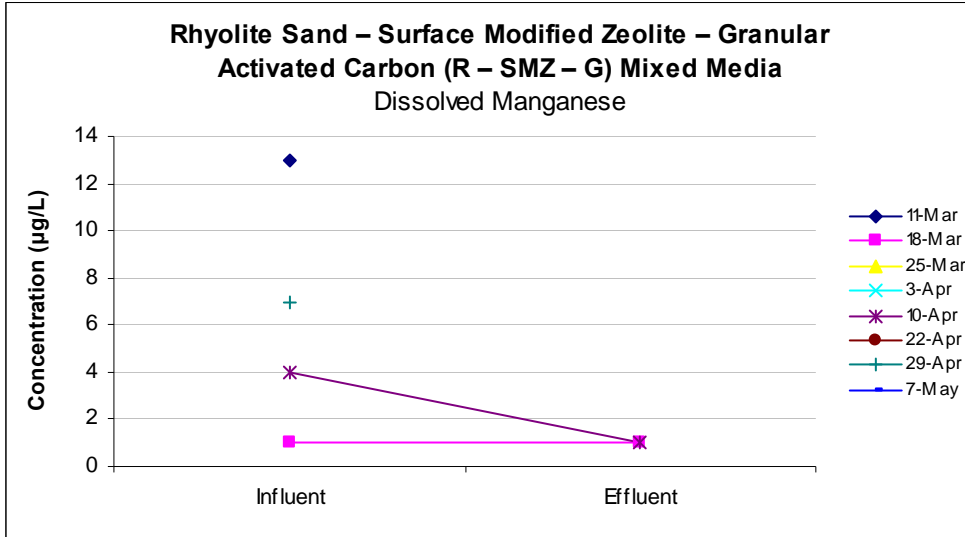




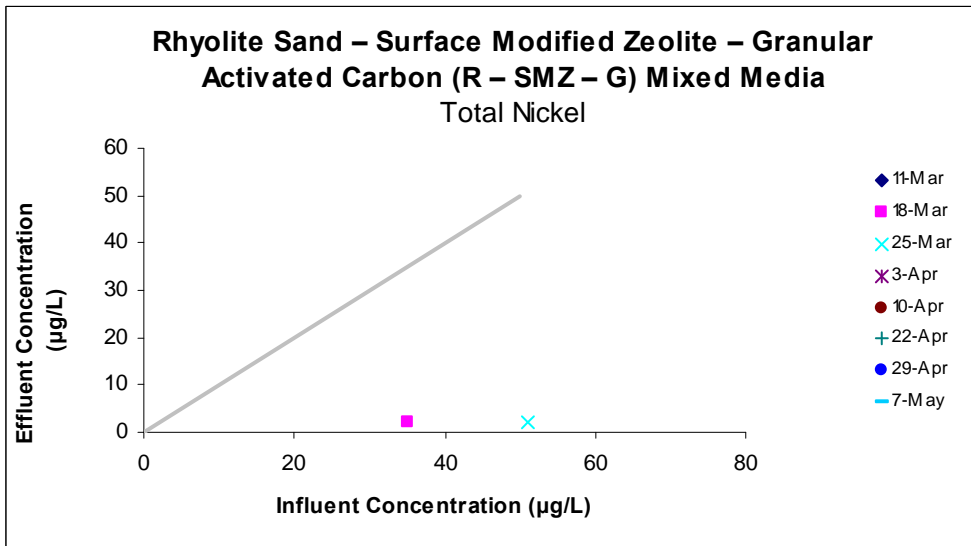
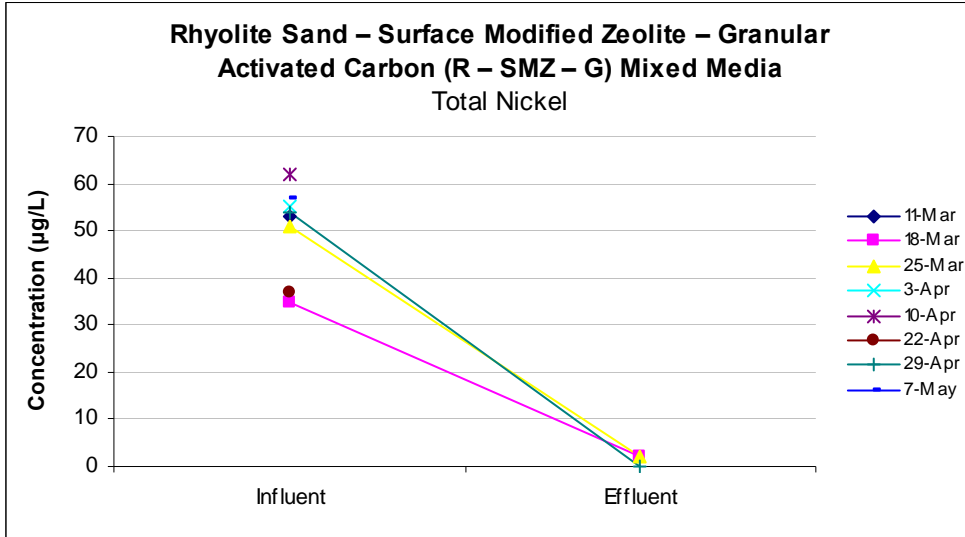
Total Mn



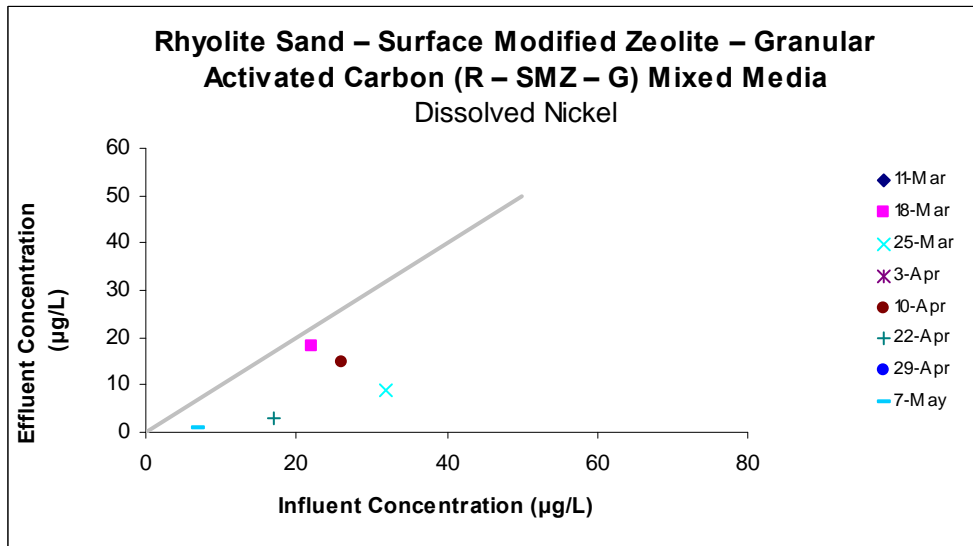
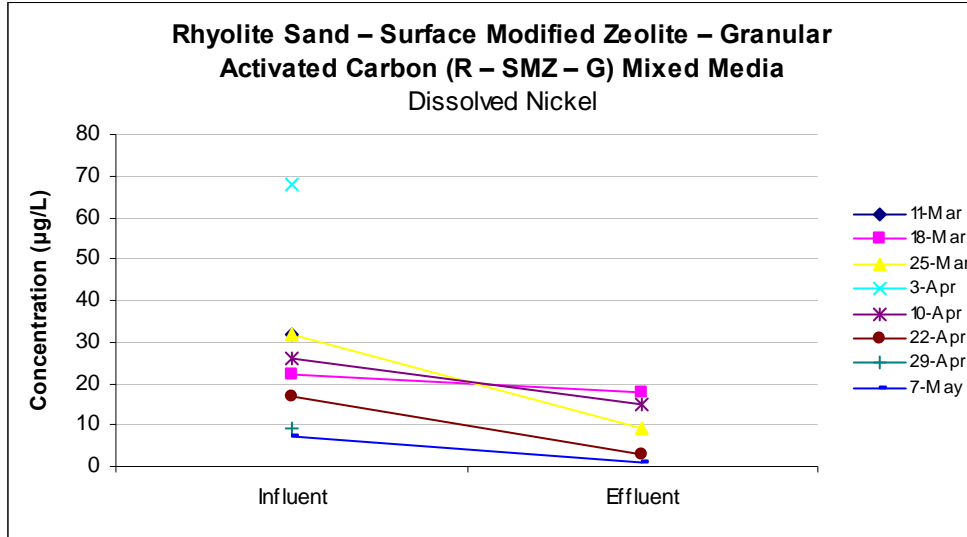
Dissolved Mn



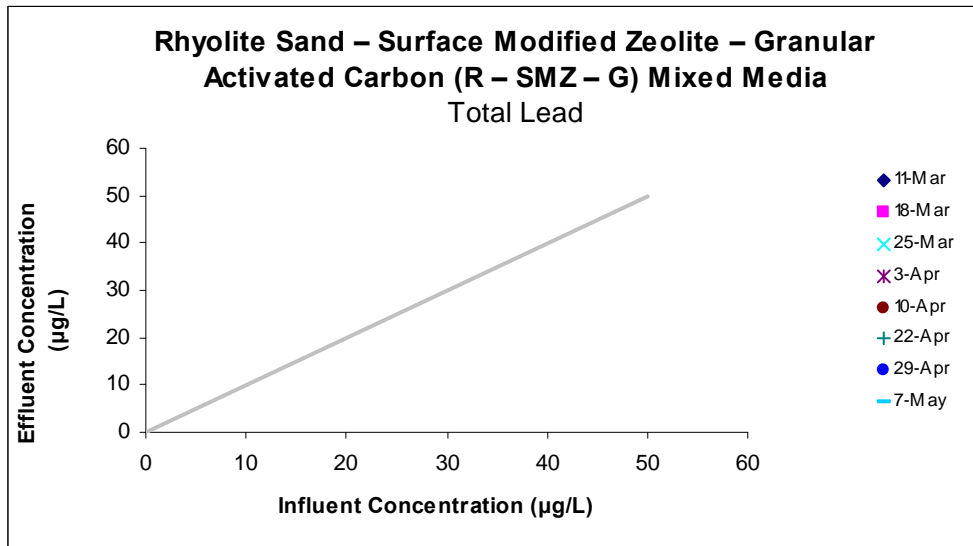
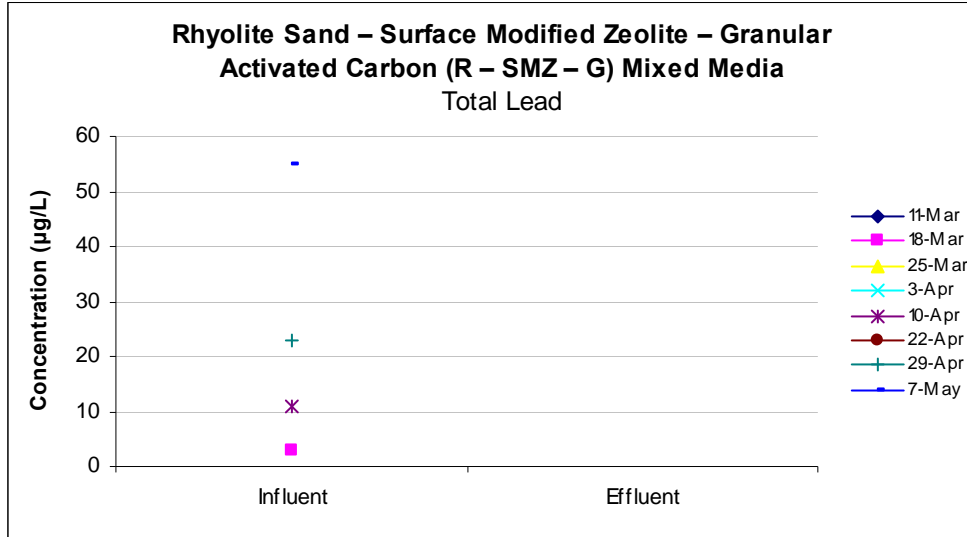
Total Ni



Dissolved Ni

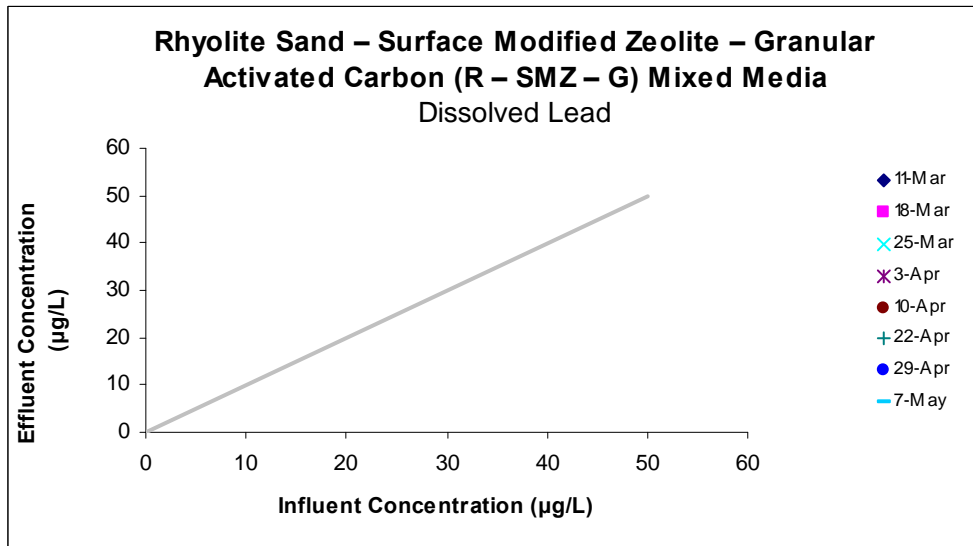
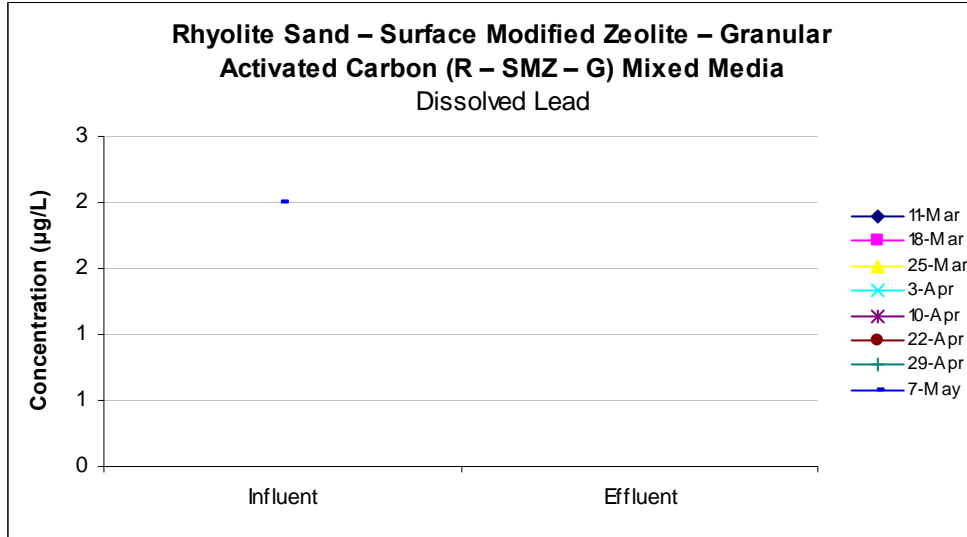


Total Pb





Dissolved Pb



# Total Zn

R-SMZ-GAC

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.371
R Square	0.138
Adjusted R Square	-0.006
Standard Error	14.878
Observations	8.000

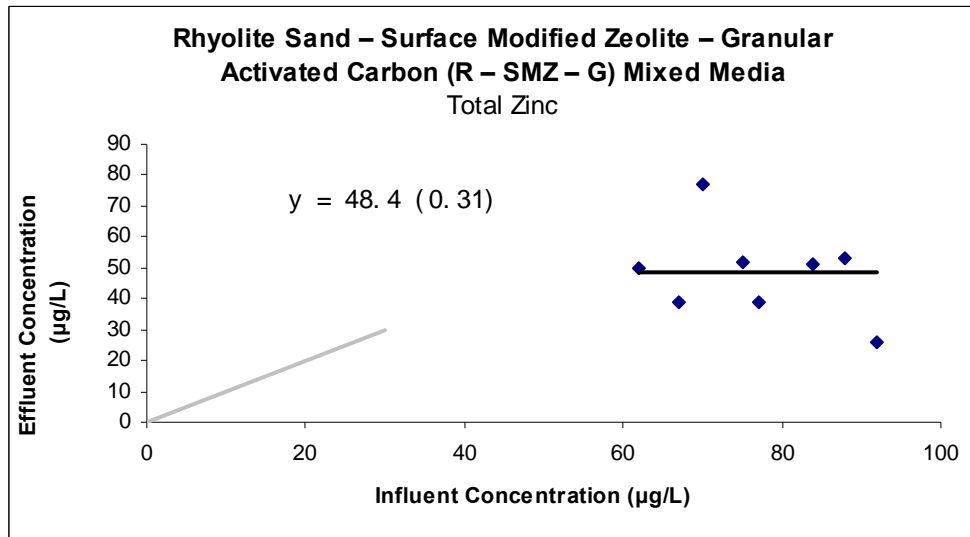
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	211.834	211.834	0.957	0.366
Residual	6.000	1328.041	221.340		
Total	7.000	1539.875			

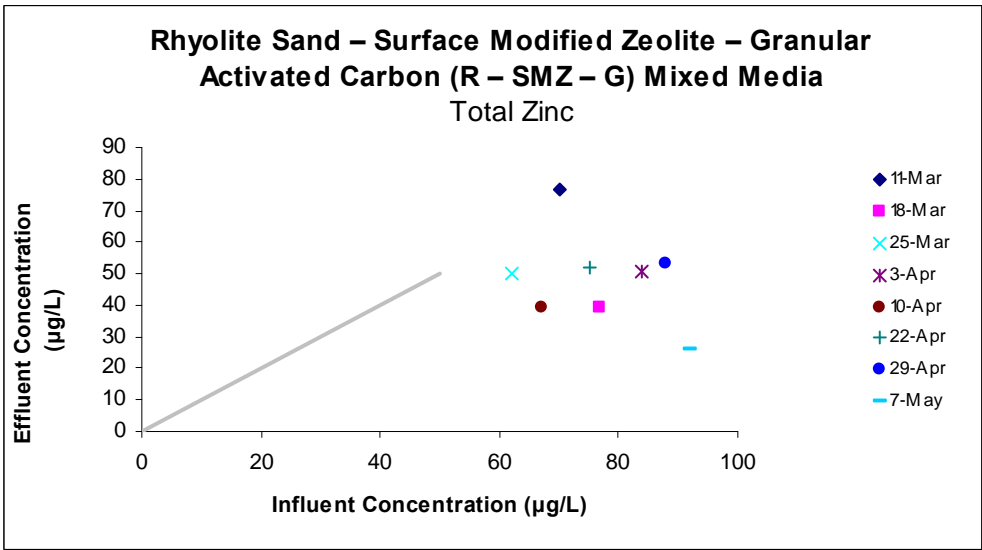
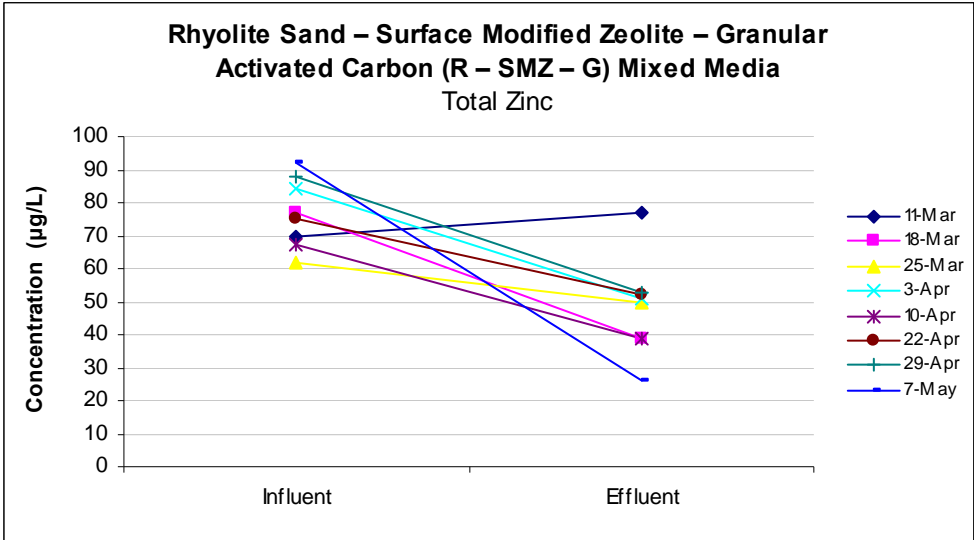
  

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	88.622	41.475	2.137	0.076	-12.863	190.106	-12.863	190.106
X Variable 1	-0.524	0.535	-0.978	0.366	-1.833	0.786	-1.833	0.786

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	51.974	25.026
2	48.310	-9.310
3	56.163	-6.163
4	44.645	6.355
5	53.545	-14.545
6	49.357	2.643
7	42.551	10.449
8	40.457	-14.457





# Dissolved Zn

R-SMZ-GAC

## SUMMARY OUTPUT

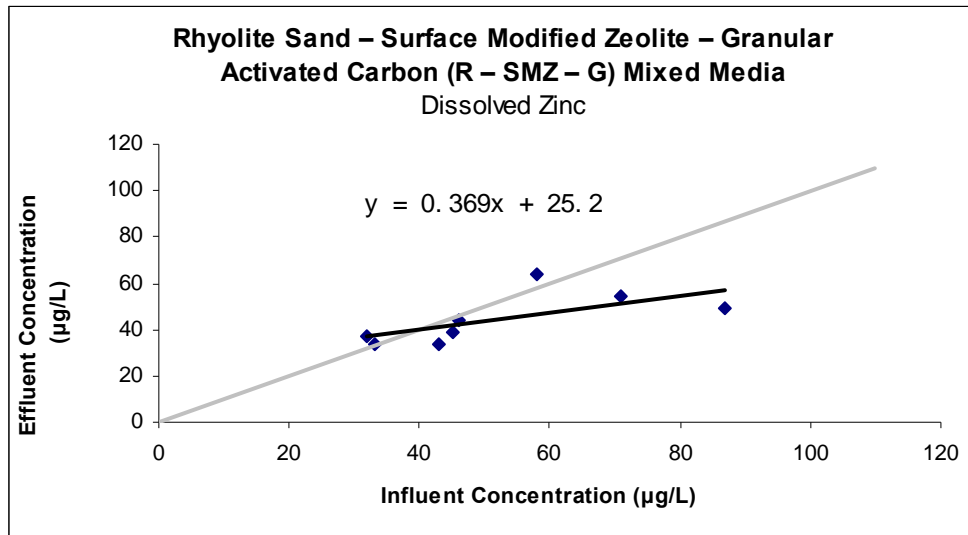
Regression Statistics	
Multiple R	0.659
R Square	0.435
Adjusted R Square	0.341
Standard Error	8.669
Observations	8.000

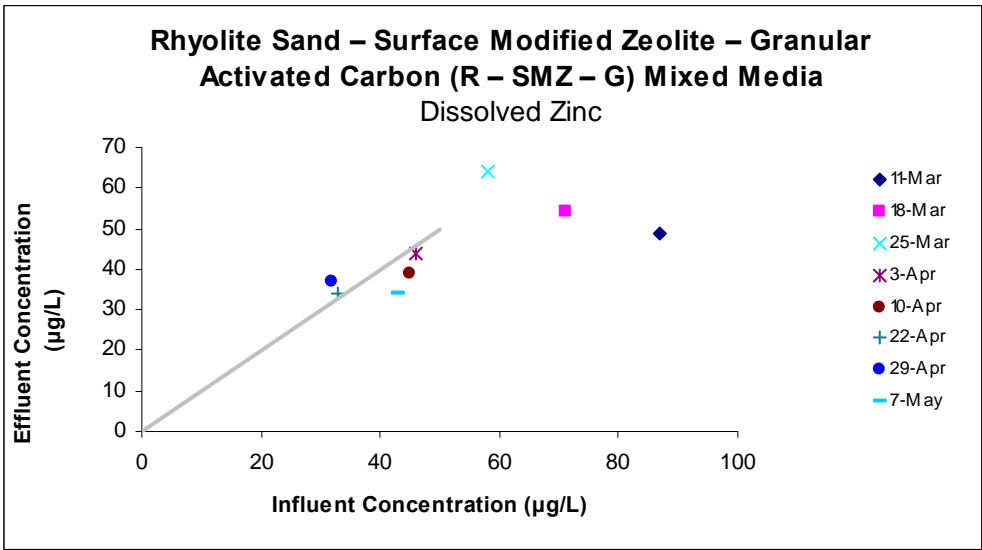
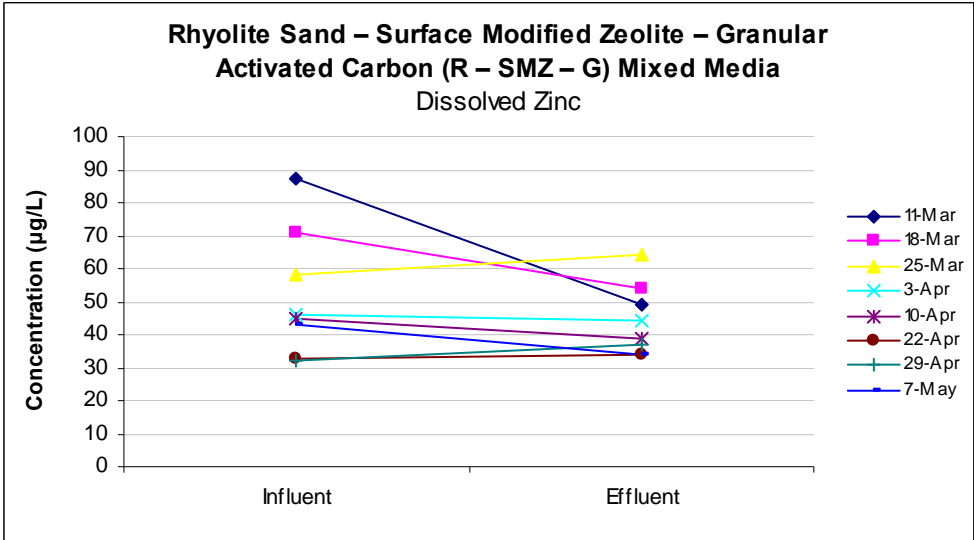
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	346.939	346.939	4.616	0.075
Residual	6.000	450.936	75.156		
Total	7.000	797.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	25.236	9.420	2.679	0.037	2.186	48.287	2.186	48.287
X Variable 1	0.369	0.172	2.149	0.075	-0.051	0.789	-0.051	0.789

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	57.334	-8.334
2	51.431	2.569
3	46.635	17.365
4	42.207	1.793
5	41.839	-2.839
6	37.411	-3.411
7	37.042	-0.042
8	41.101	-7.101





# Total K

R-SMZ-GAC

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.316
R Square	0.100
Adjusted R Square	-0.050
Standard Error	2117.440
Observations	8.000

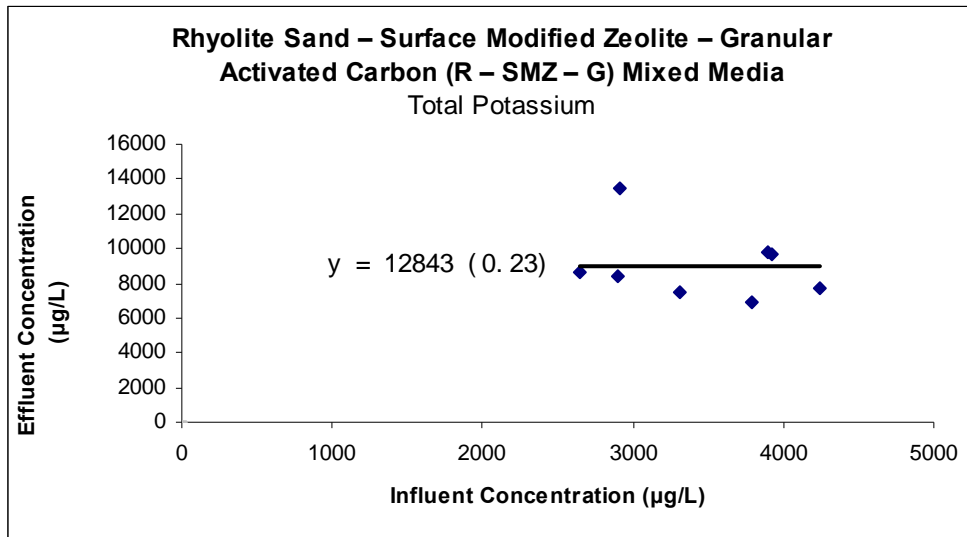
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	2983922.722	2983922.722	0.666	0.446
Residual	6.000	26901316.153	4483552.692		
Total	7.000	29885238.875			

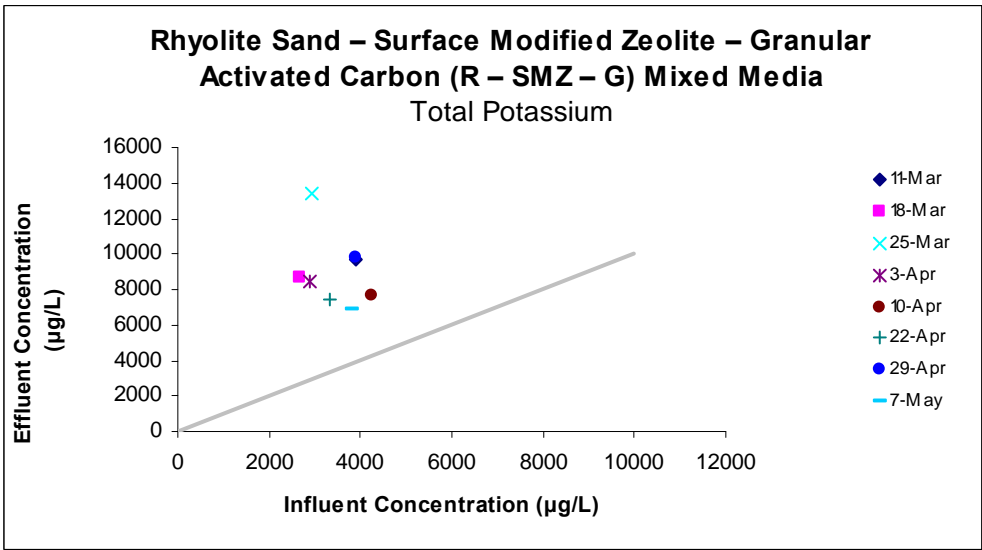
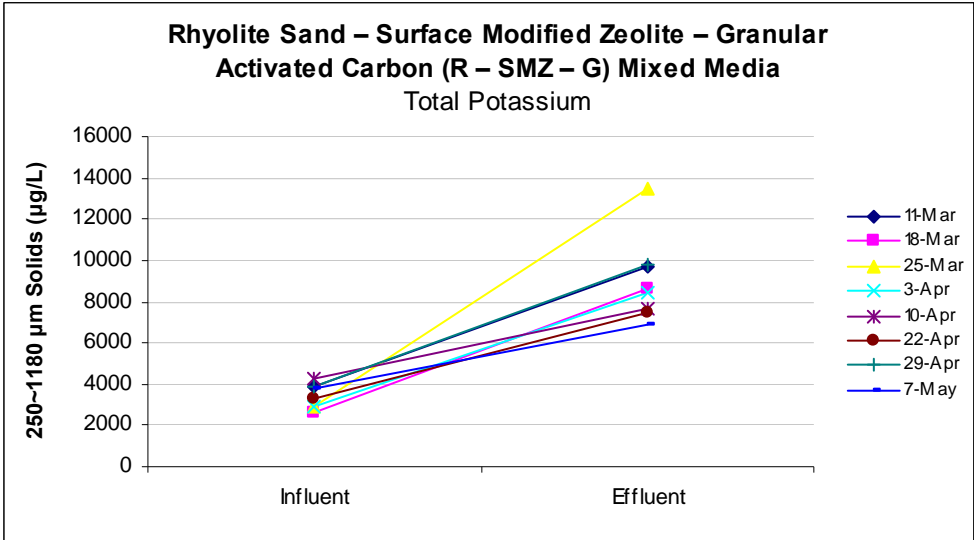
  

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	12842.528	4776.683	2.689	0.036	1154.405	24530.650	1154.405	24530.650
X Variable 1	-1.114	1.366	-0.816	0.446	-4.457	2.228	-4.457	2.228

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	8475.270	1177.730
2	9888.305	-1261.305
3	9592.994	3851.006
4	9609.710	-1159.710
5	8118.668	-435.668
6	9149.470	-1693.470
7	8498.672	1273.328
8	8617.911	-1751.911





# Dissolved K

R-SMZ-GAC

## SUMMARY OUTPUT

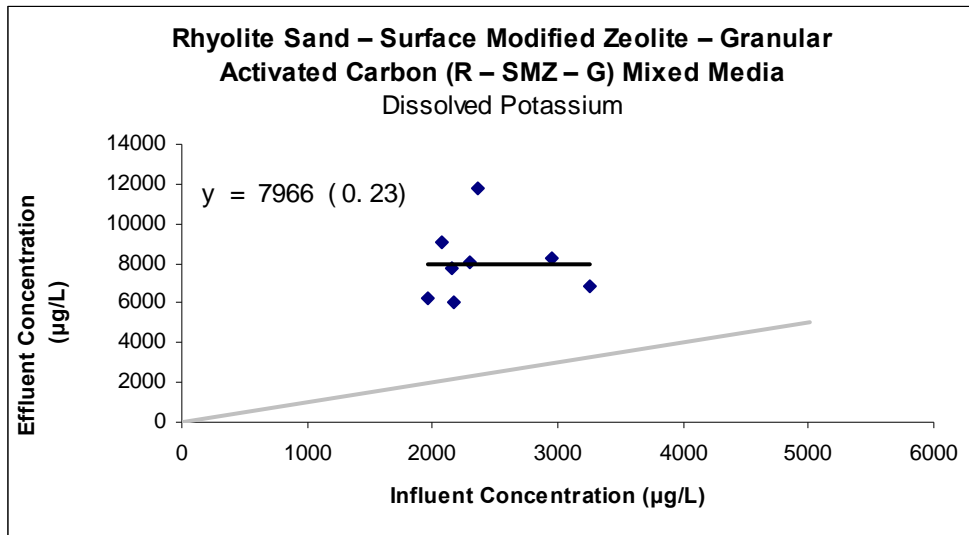
Regression Statistics	
Multiple R	0.003
R Square	0.000
Adjusted R Square	-0.167
Standard Error	1993.611
Observations	8.000

ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	200.058	200.058	0.000	0.995
Residual	6.000	23846907.442	3974484.574		
Total	7.000	23847107.500			

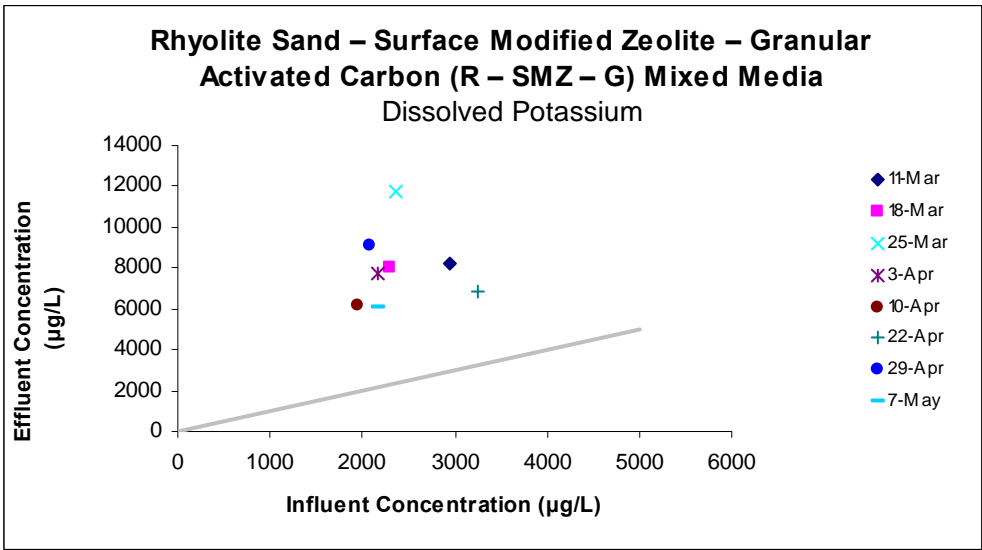
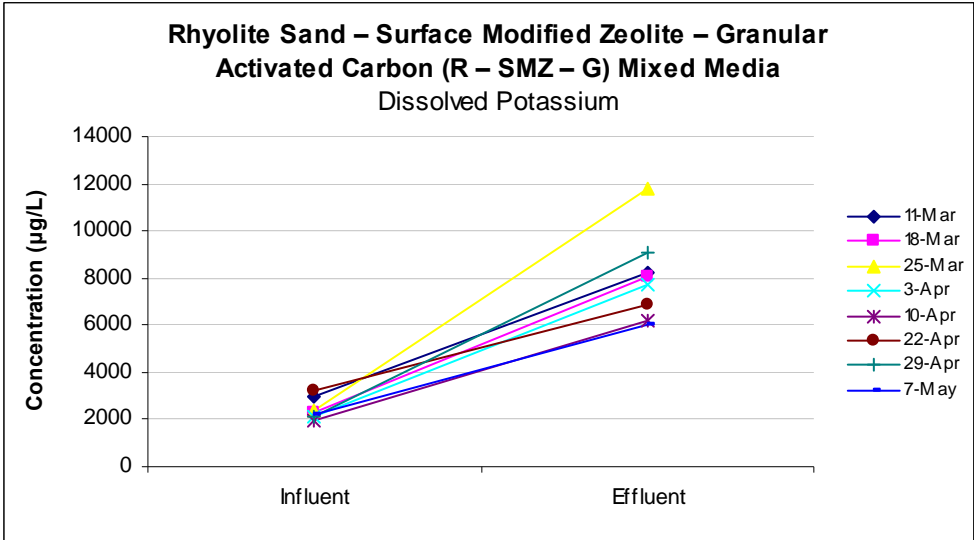
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	7966.510	4042.341	1.971	0.096	-1924.742	17857.762	-1924.742	17857.762
X Variable 1	0.012	1.654	0.007	0.995	-4.035	4.058	-4.035	4.058

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	8001.193	215.807
2	7993.543	41.457
3	7994.294	3777.706
4	7991.877	-275.877
5	7989.507	-1774.507
6	8004.689	-1107.689
7	7990.926	1093.074
8	7991.971	-1969.971







# Total Na

R-SMZ-GAC

## SUMMARY OUTPUT

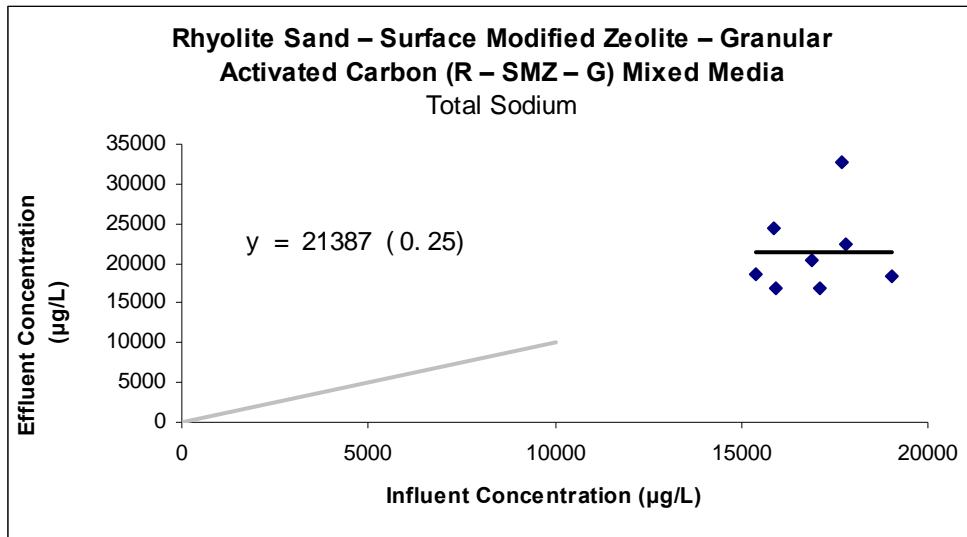
Regression Statistics	
Multiple R	0.172
R Square	0.030
Adjusted R Square	-0.132
Standard Error	5638.136
Observations	8.000

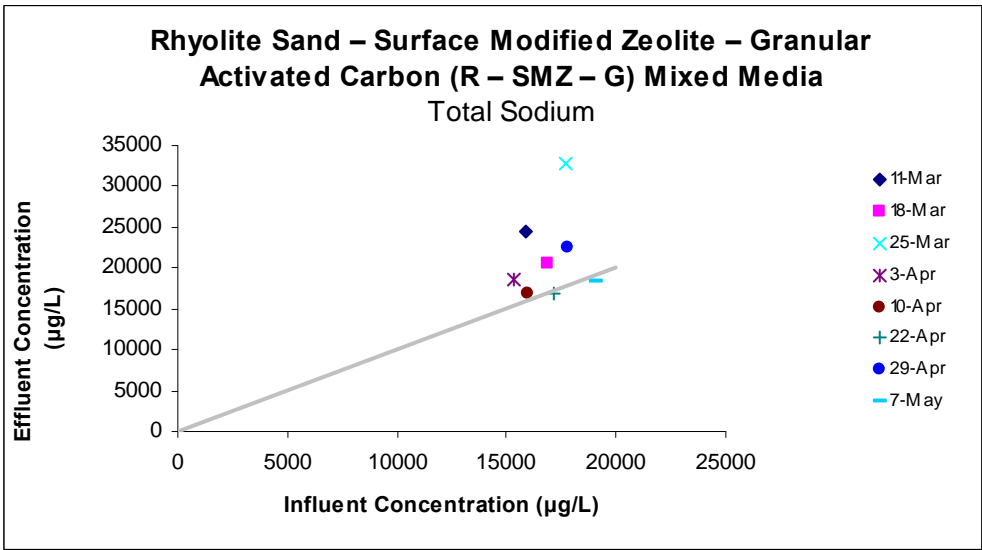
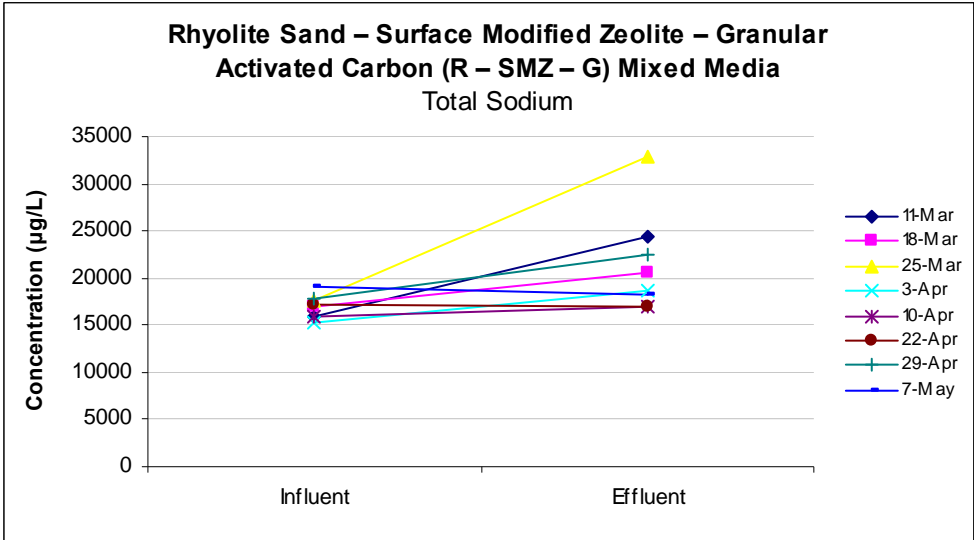
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	5828775.651	5828775.651	0.183	0.683
Residual	6.000	190731441.224	31788573.537		
Total	7.000	196560216.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	8680.321	29740.780	0.292	0.780	-64092.746	81453.387	-64092.746	81453.387
X Variable 1	0.749	1.749	0.428	0.683	-3.530	5.028	-3.530	5.028

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	20568.824	3803.176
2	21341.573	-829.573
3	21921.884	10864.116
4	20185.445	-1500.445
5	20615.249	-3669.249
6	21496.572	-4508.572
7	22025.217	455.783
8	22940.235	-4615.235





# Dissolved Na

R-SMZ-GAC

## SUMMARY OUTPUT

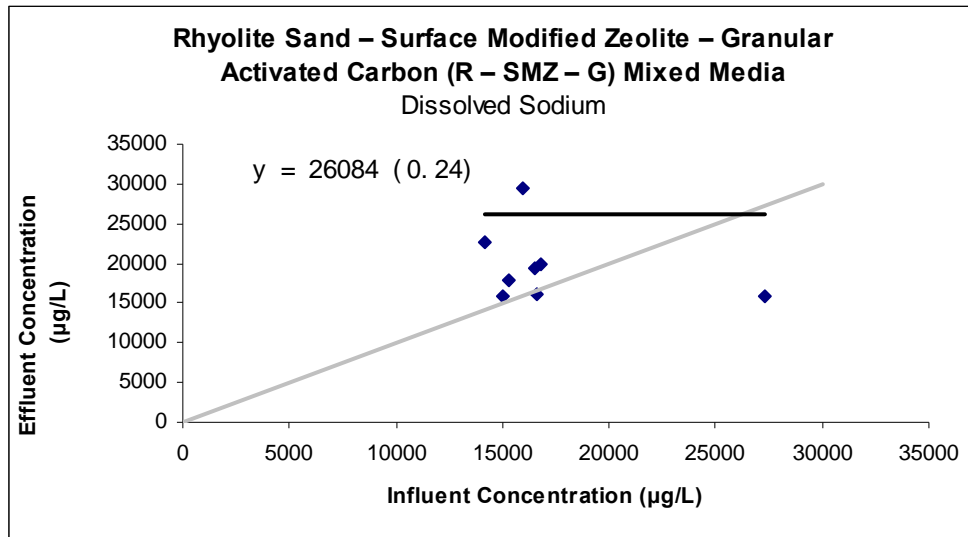
Regression Statistics	
Multiple R	0.339
R Square	0.115
Adjusted R Square	-0.032
Standard Error	4711.145
Observations	8.000

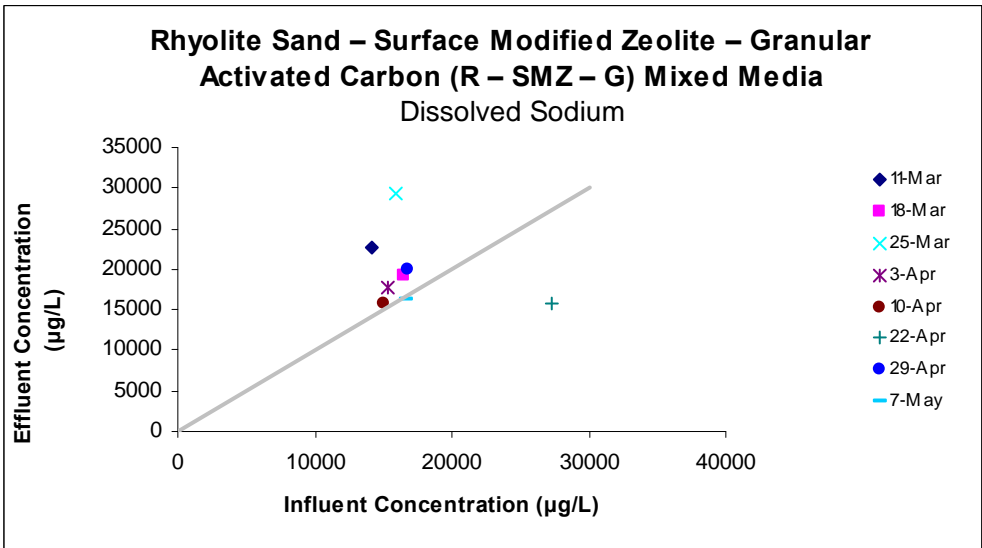
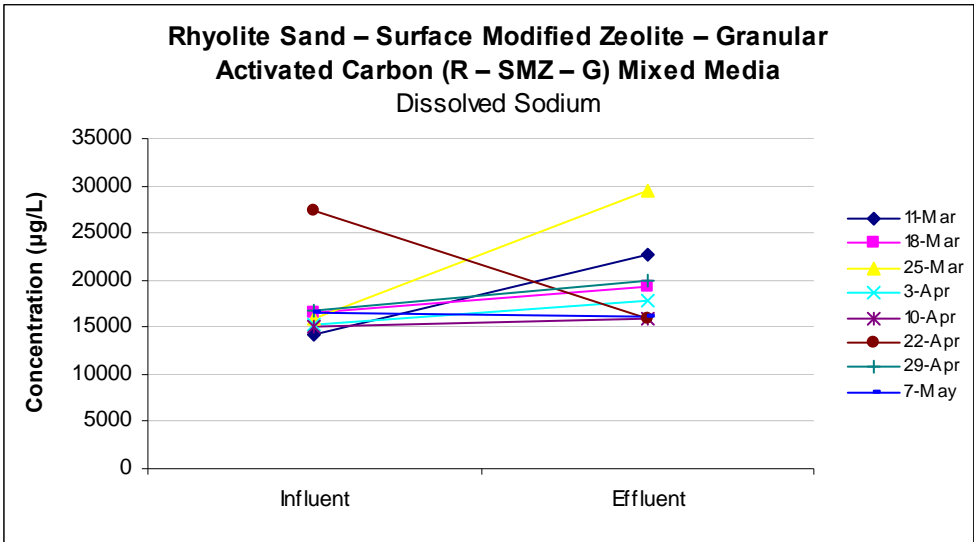
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	17315170.406	17315170.406	0.780	0.411
Residual	6.000	133169327.594	22194887.932		
Total	7.000	150484498.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	26083.516	7503.887	3.476	0.013	7722.165	44444.866	7722.165	44444.866
X Variable 1	-0.375	0.425	-0.883	0.411	-1.416	0.665	-1.416	0.665

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	20762.946	1969.054
2	19876.872	-591.872
3	20093.134	9341.866
4	20351.447	-2584.447
5	20450.567	-4643.567
6	15822.336	-7.336
7	19765.362	176.638
8	19845.334	-3660.334





# Total Cr

R-SMZ-GAC

## SUMMARY OUTPUT

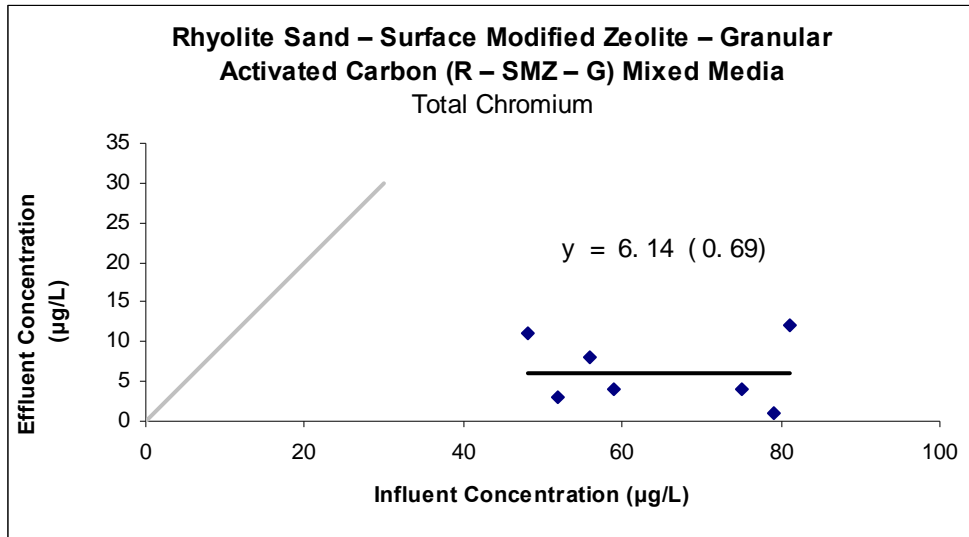
Regression Statistics	
Multiple R	0.131
R Square	0.017
Adjusted R Square	-0.179
Standard Error	4.583
Observations	7.000

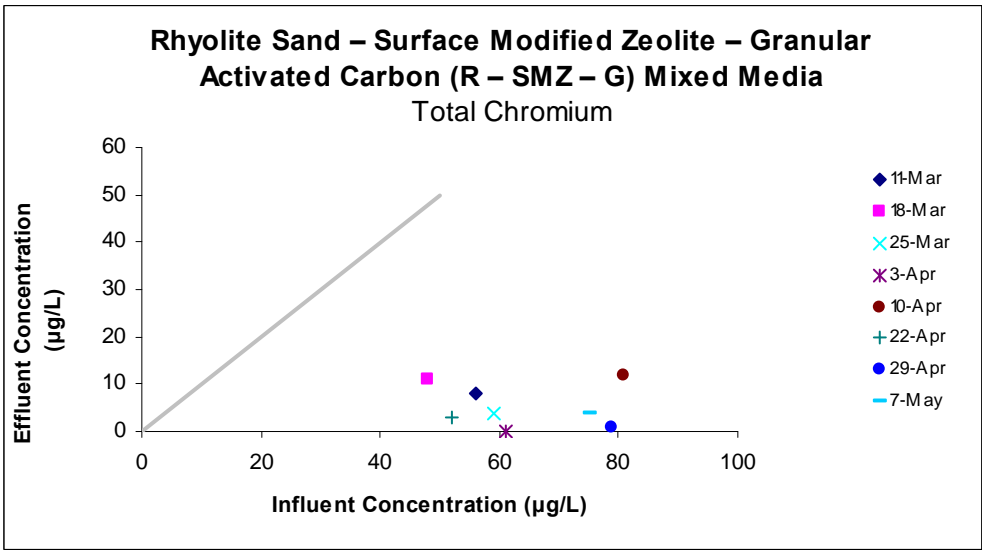
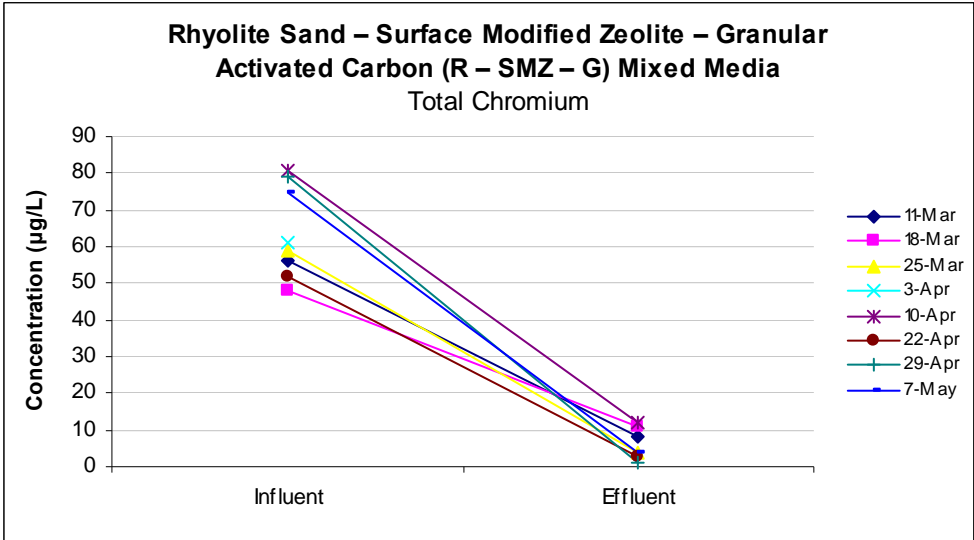
ANOVA						
	df	SS	MS	F	Significance F	
Regression	1.000	1.825	1.825	0.087	0.780	
Residual	5.000	105.032	21.006			
Total	6.000	106.857				

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	8.734	8.960	0.975	0.374	-14.297	31.766	-14.297	31.766
X Variable 1	-0.040	0.137	-0.295	0.780	-0.392	0.311	-0.392	0.311

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	6.477	1.523
2	6.799	4.201
3	6.356	-2.356
4	5.469	6.531
5	6.638	-3.638
6	5.550	-4.550
7	5.711	-1.711





# Dissolved Cr

R-SMZ-GAC

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.976
R Square	0.953
Adjusted R Square	0.703
Standard Error	1.087
Observations	5.000

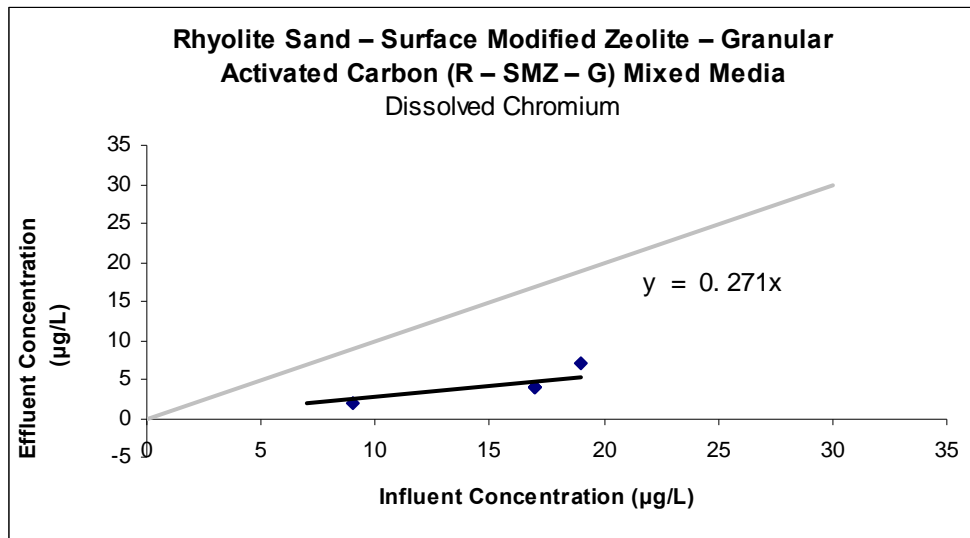
## ANOVA

	df	SS	MS	F	Significance F
Regression	1.000	96.276	96.276	81.517	0.003
Residual	4.000	4.724	1.181		
Total	5.000	101.000			

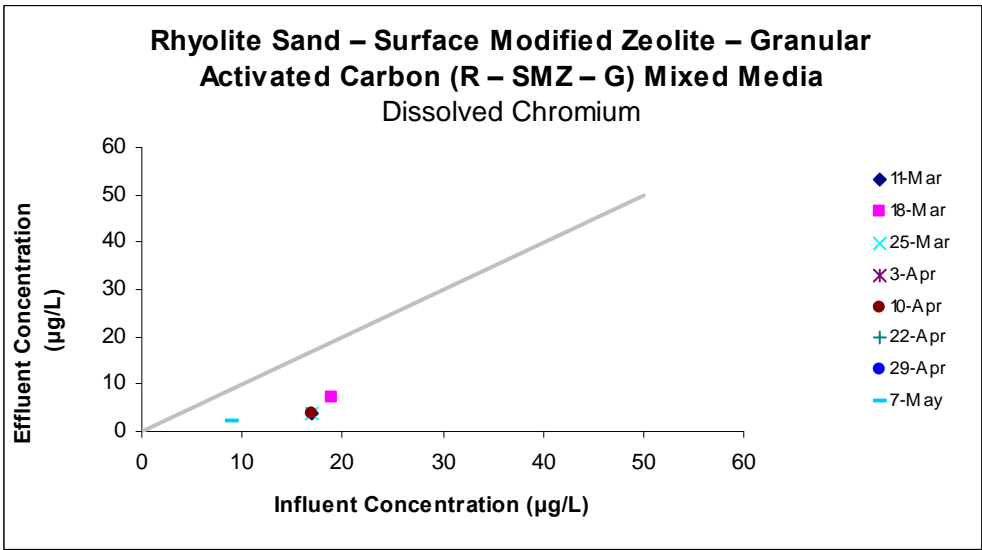
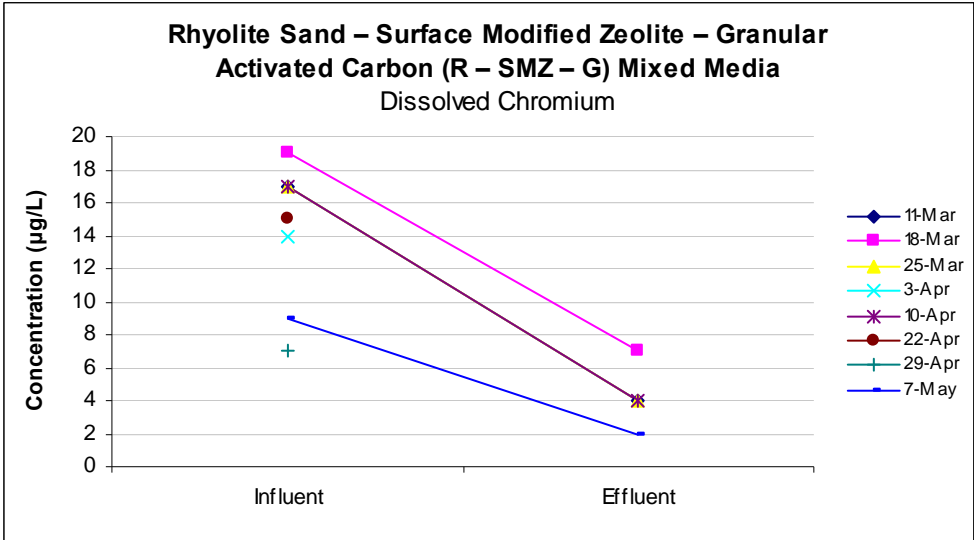
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	0.271	0.030	9.029	0.001	0.188	0.355	0.188	0.355

## RESIDUAL OUTPUT

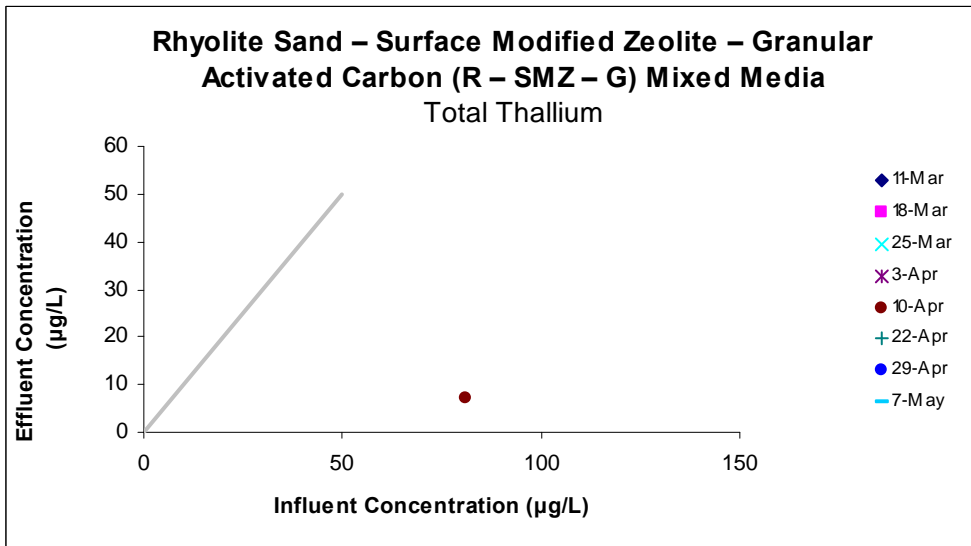
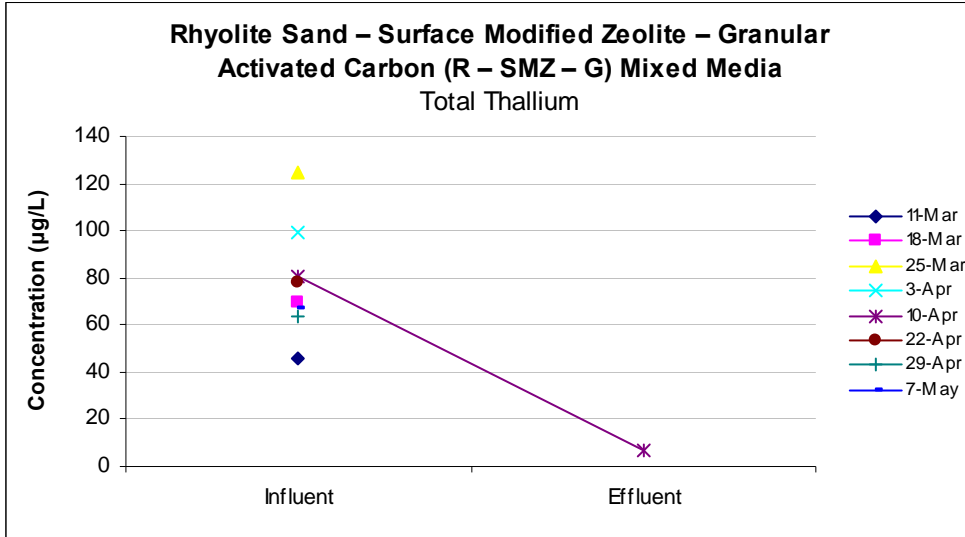
Observation	Predicted Y	Residuals
1	4.610	-0.610
2	5.153	1.847
3	4.610	-0.610
4	4.610	-0.610
5	2.441	-0.441



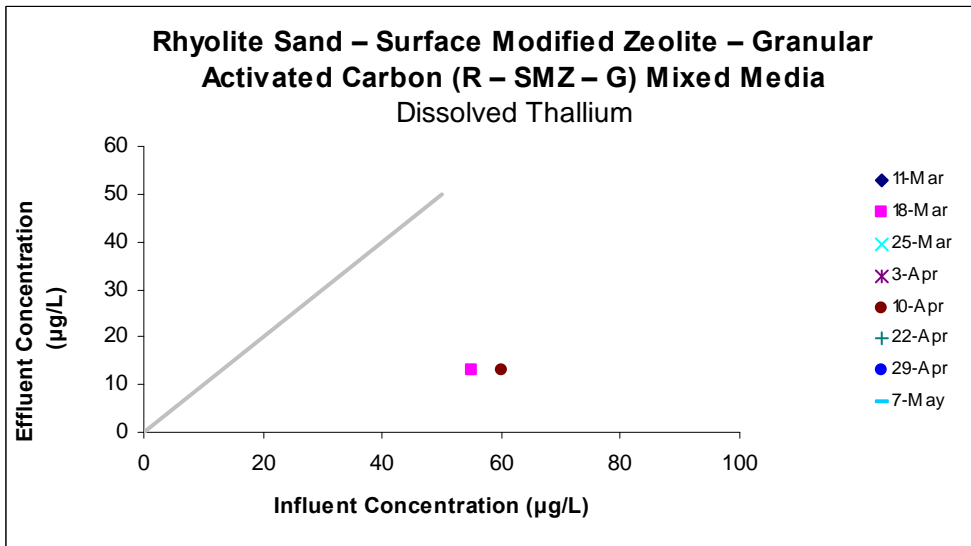
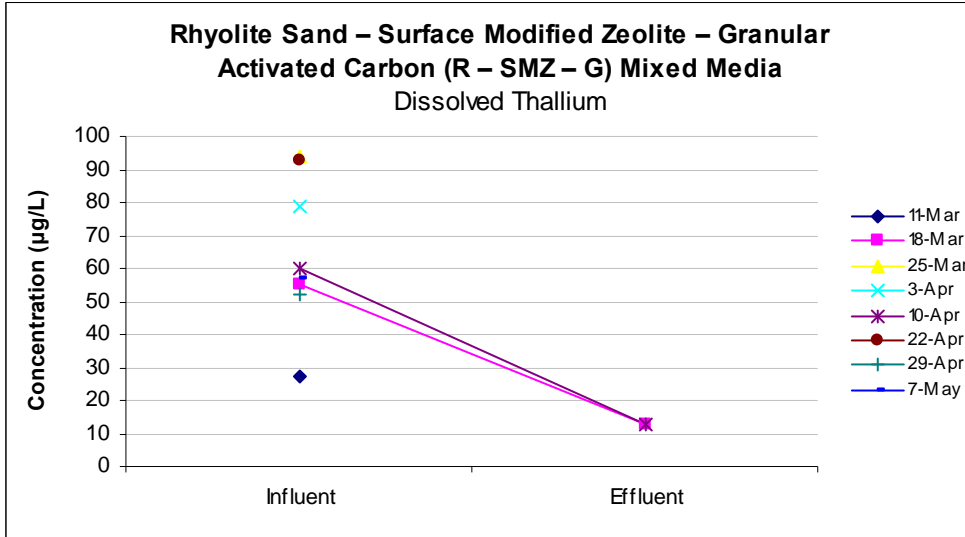




Total Tl



Dissolved Tl



# Total Sb

R-SMZ-GAC

## SUMMARY OUTPUT

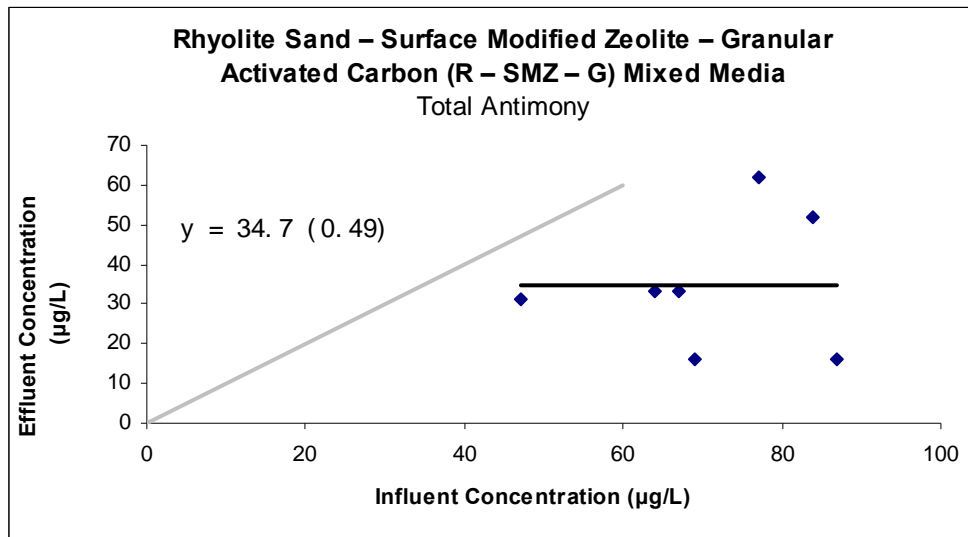
Regression Statistics	
Multiple R	0.168
R Square	0.028
Adjusted R Square	-0.166
Standard Error	18.513
Observations	7.000

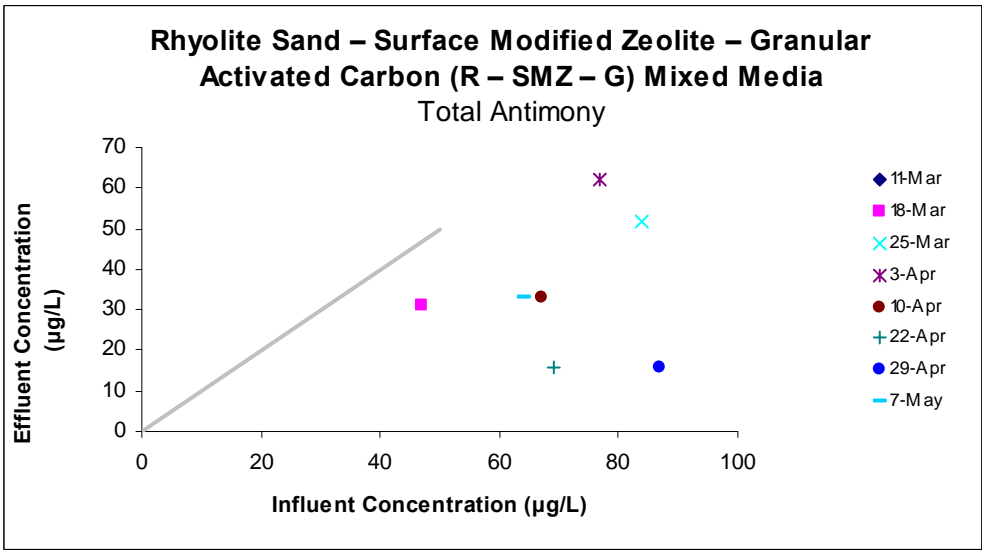
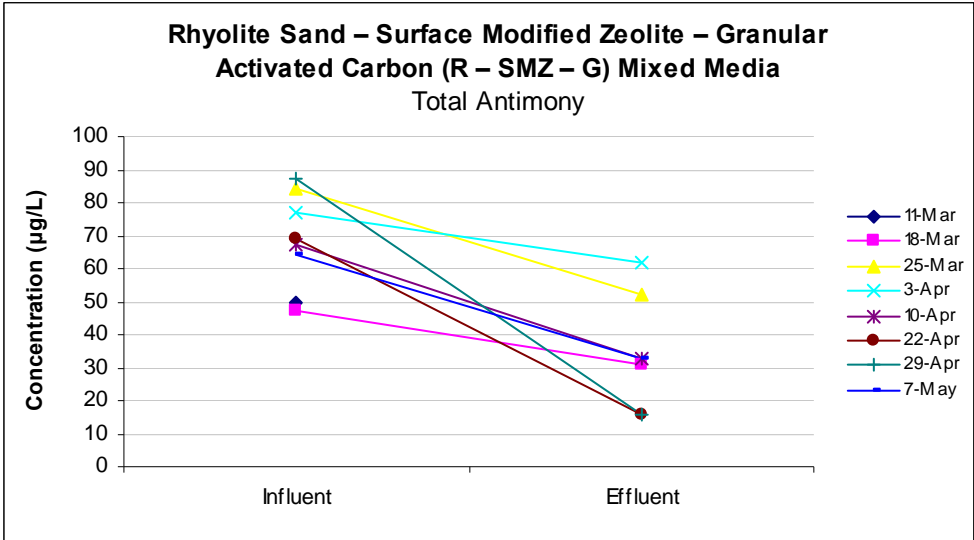
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	49.715	49.715	0.145	0.719
Residual	5.000	1713.713	342.743		
Total	6.000	1763.429			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	19.718	39.992	0.493	0.643	-83.086	122.522	-83.086	122.522
X Variable 1	0.212	0.557	0.381	0.719	-1.219	1.643	-1.219	1.643

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	29.685	1.315
2	37.532	14.468
3	36.047	25.953
4	33.927	-0.927
5	34.351	-18.351
6	38.168	-22.168
7	33.290	-0.290





# Dissolved Sb

R-SMZ-GAC

## SUMMARY OUTPUT

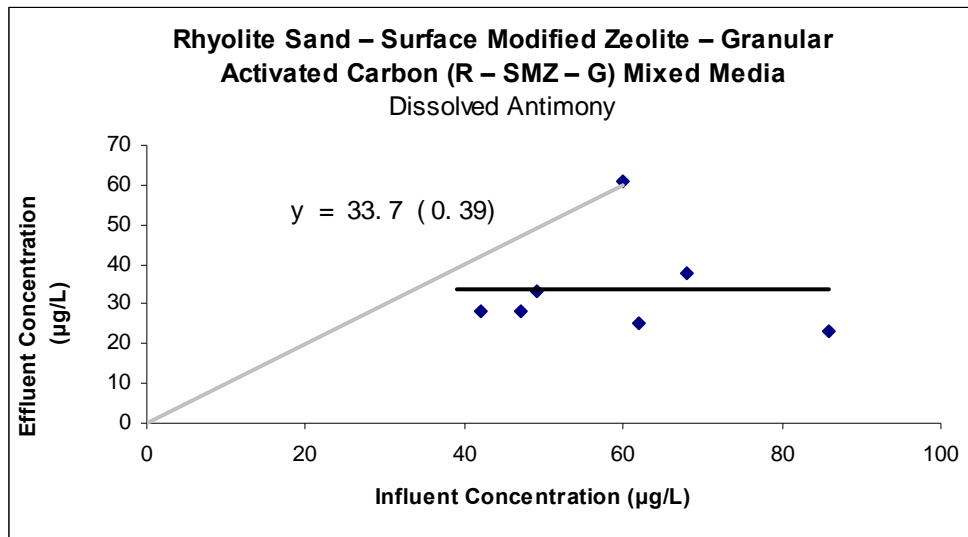
Regression Statistics	
Multiple R	0.065
R Square	0.004
Adjusted R Square	-0.195
Standard Error	14.248
Observations	7.000

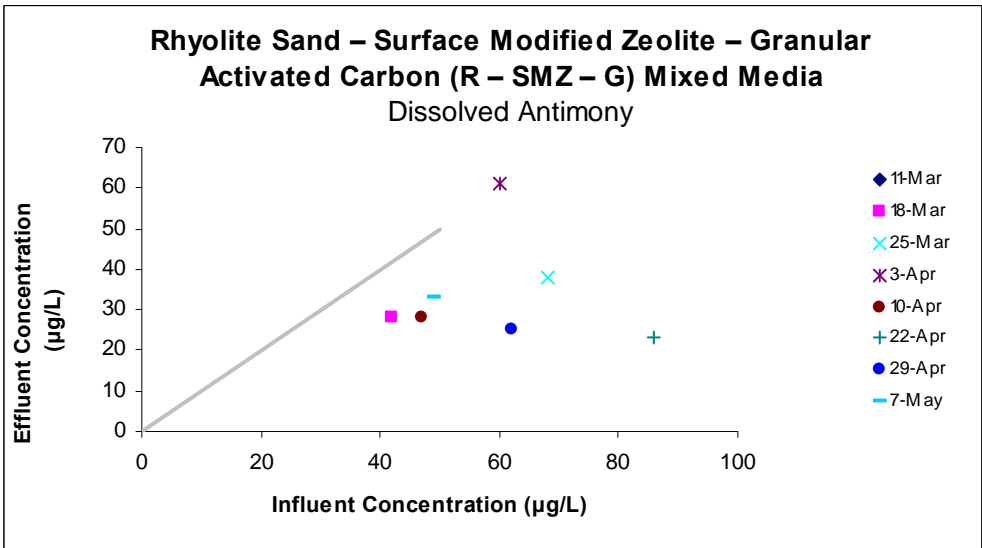
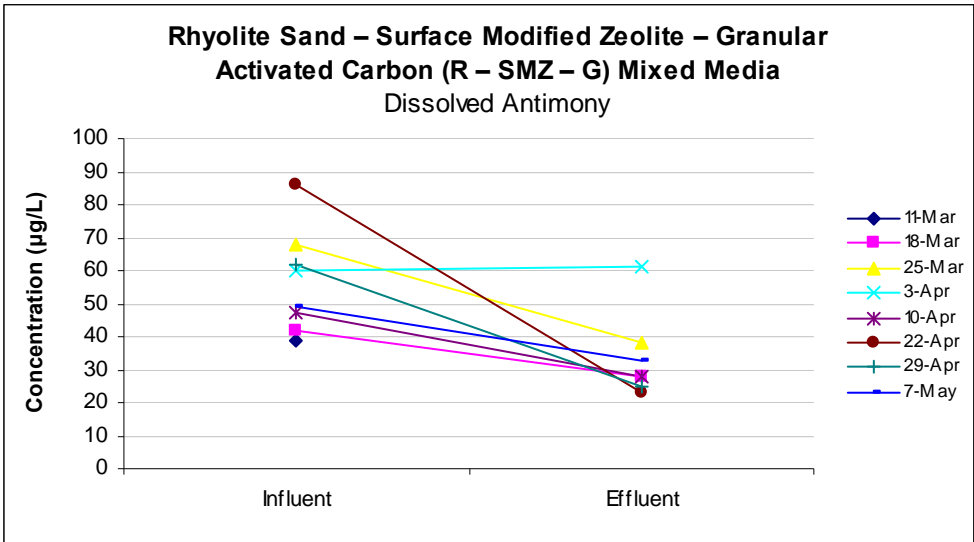
ANOVA						
	df	SS	MS	F	Significance F	
Regression	1.000	4.350	4.350	0.021	0.889	
Residual	5.000	1015.078	203.016			
Total	6.000	1019.429				

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	37.068	23.535	1.575	0.176	-23.431	97.567	-23.431	97.567
X Variable 1	-0.057	0.387	-0.146	0.889	-1.053	0.939	-1.053	0.939

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	34.686	-6.686
2	33.212	4.788
3	33.666	27.334
4	34.403	-6.403
5	32.191	-9.191
6	33.552	-8.552
7	34.289	-1.289





## R-SMZ-G-P

### Total As

R-SMZ-GAC-PM

#### SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0.783
R Square	0.613
Adjusted R Square	0.517
Standard Error	8.324
Observations	6.000

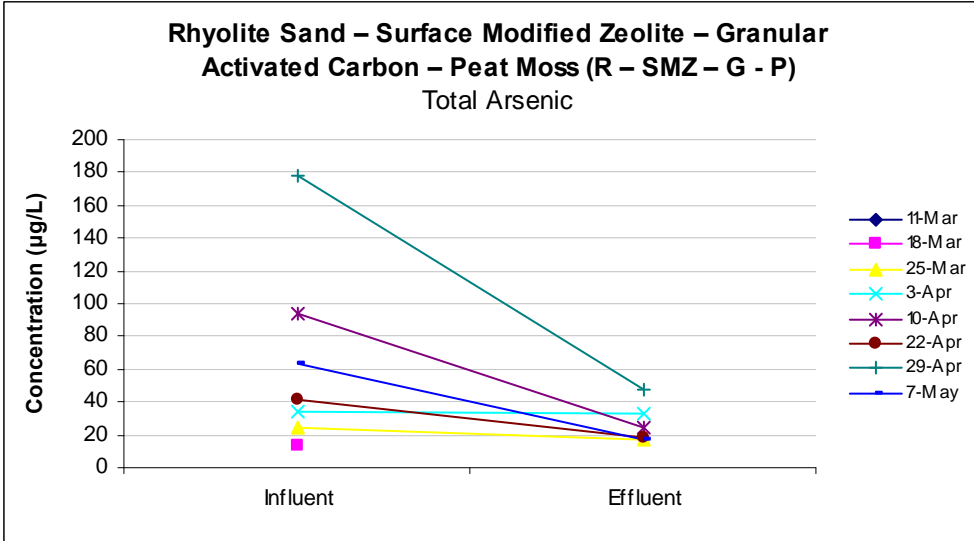
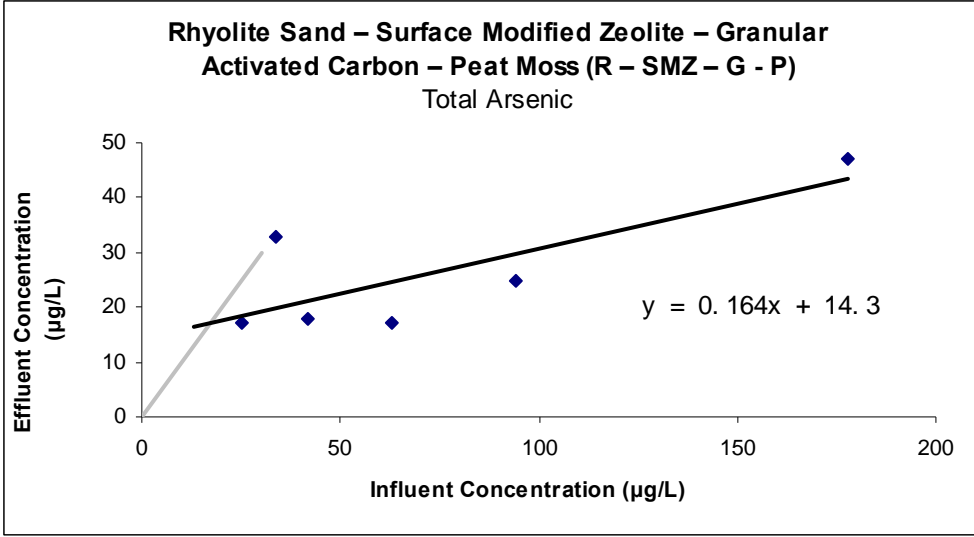
ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1.000	439.692	439.692	6.346	0.065
Residual	4.000	277.141	69.285		
Total	5.000	716.833			

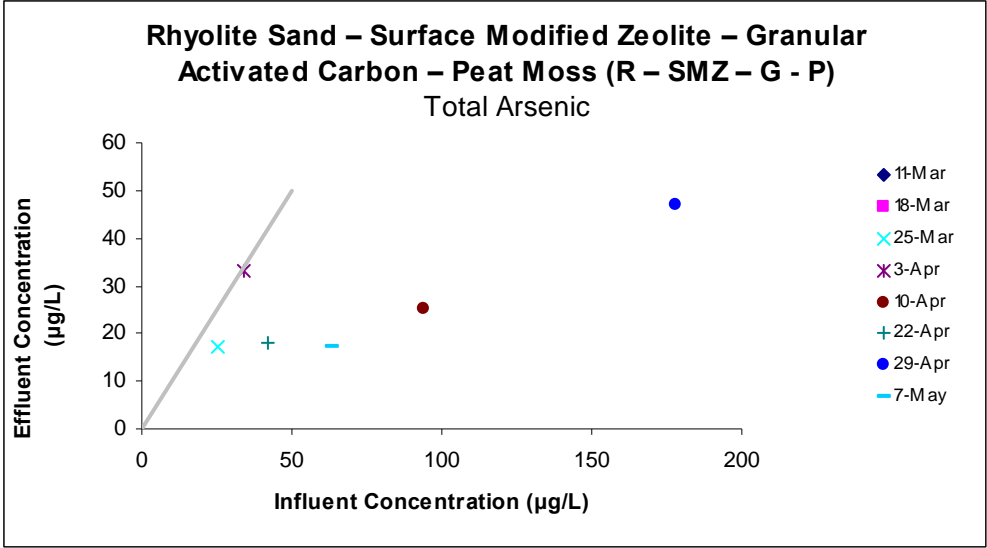
	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	14.251	5.824	2.447	0.071	-1.920	30.421	-1.920	30.421
X Variable 1	0.164	0.065	2.519	0.065	-0.017	0.345	-0.017	0.345

#### RESIDUAL OUTPUT

<i>Observation</i>	<i>Predicted Y</i>	<i>Residuals</i>
1	18.350	-1.350
2	19.826	13.174
3	29.665	-4.665
4	21.138	-3.138
5	43.439	3.561
6	24.582	-7.582







# Dissolved As

R-SMZ-GAC-PM

## SUMMARY OUTPUT

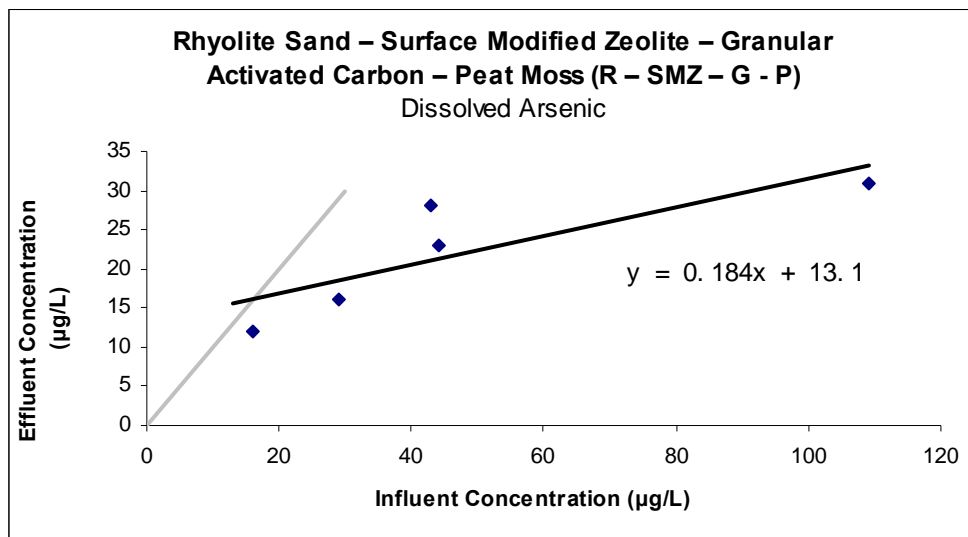
Regression Statistics	
Multiple R	0.830
R Square	0.689
Adjusted R Square	0.585
Standard Error	5.132
Observations	5.000

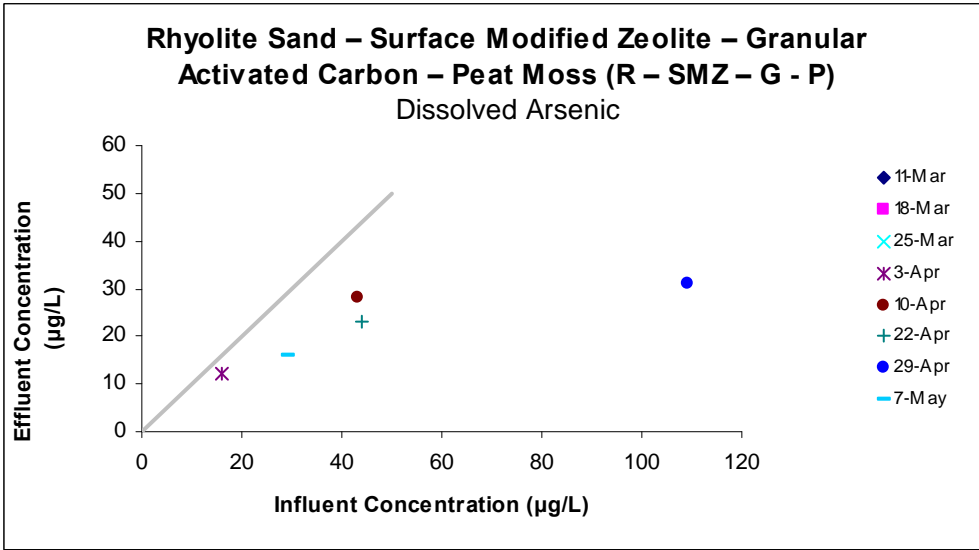
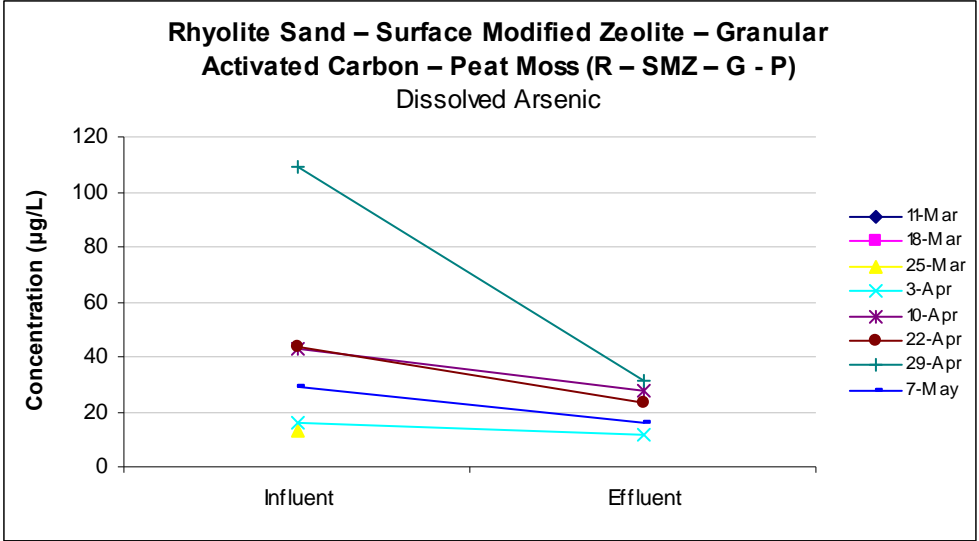
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	174.983	174.983	6.643	0.082
Residual	3.000	79.017	26.339		
Total	4.000	254.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	13.113	4.142	3.166	0.051	-0.069	26.295	-0.069	26.295
X Variable 1	0.184	0.072	2.577	0.082	-0.043	0.412	-0.043	0.412

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	16.063	-4.063
2	21.041	6.959
3	21.226	1.774
4	33.211	-2.211
5	18.460	-2.460





# Total Al

R-SMZ-GAC-PM

## SUMMARY OUTPUT

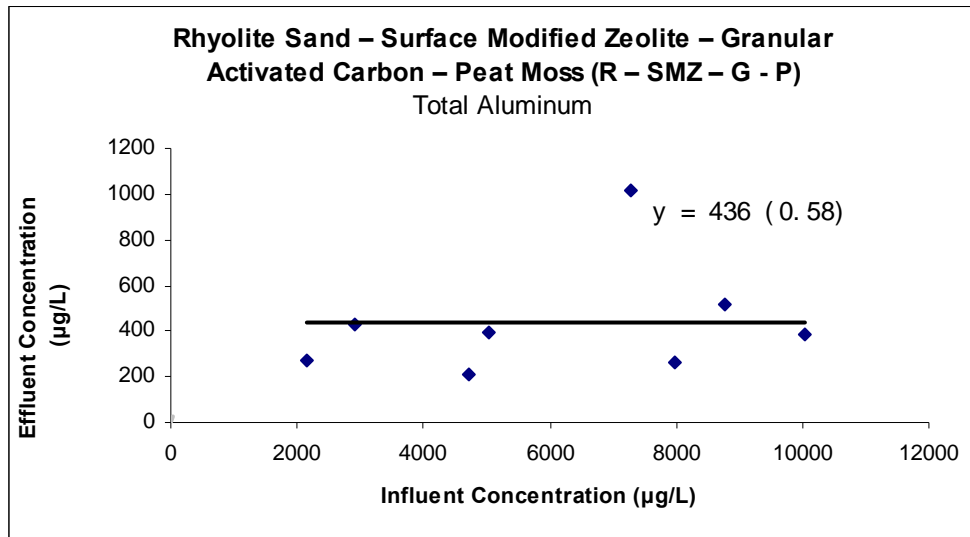
Regression Statistics	
Multiple R	0.269
R Square	0.072
Adjusted R Square	-0.082
Standard Error	264.501
Observations	8.000

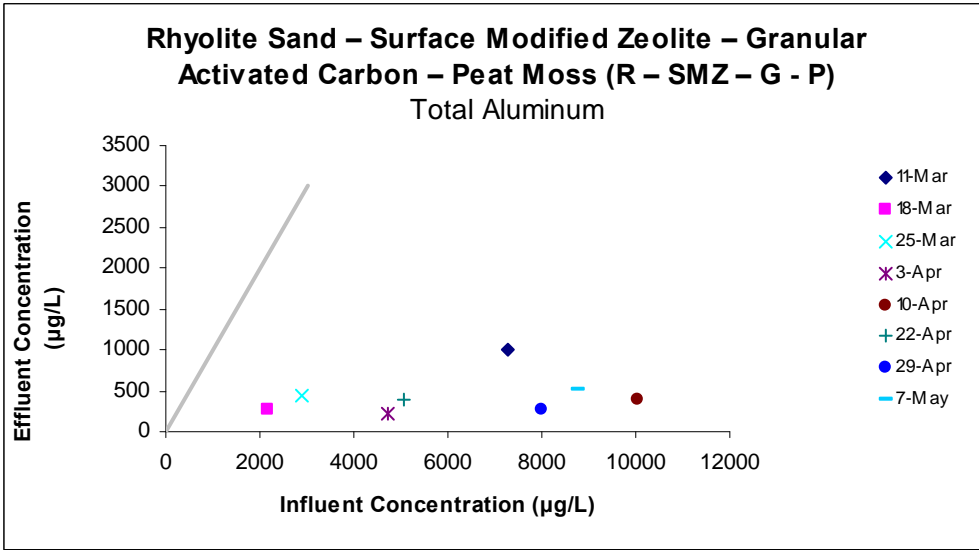
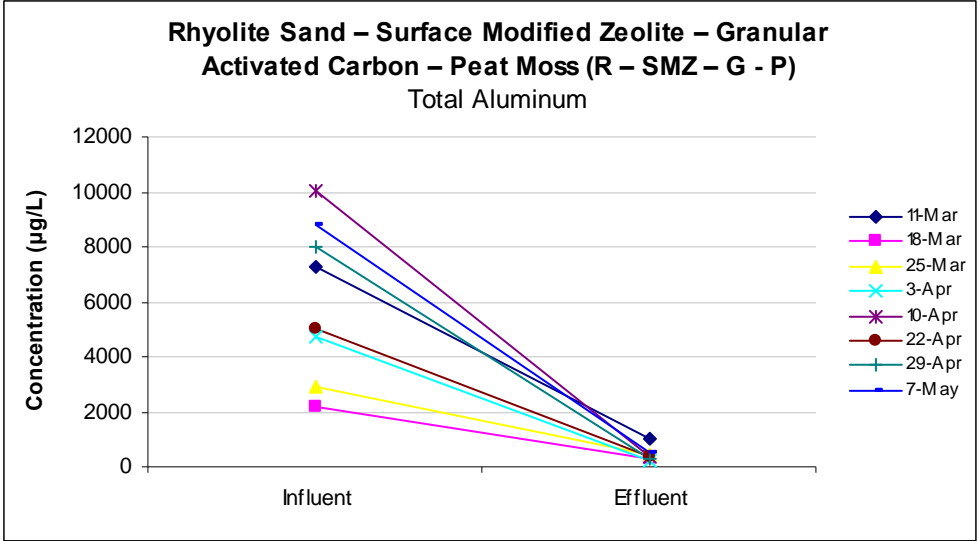
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	32701.722	32701.722	0.467	0.520
Residual	6.000	419764.153	69960.692		
Total	7.000	452465.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	289.300	234.902	1.232	0.264	-285.485	864.085	-285.485	864.085
X Variable 1	0.024	0.035	0.684	0.520	-0.062	0.110	-0.062	0.110

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	464.597	550.403
2	341.227	-67.227
3	359.395	73.605
4	403.297	-190.297
5	531.150	-148.150
6	410.888	-14.888
7	481.633	-219.633
8	500.813	16.187





# Dissolved Al

R-SMZ-GAC-PM

## SUMMARY OUTPUT

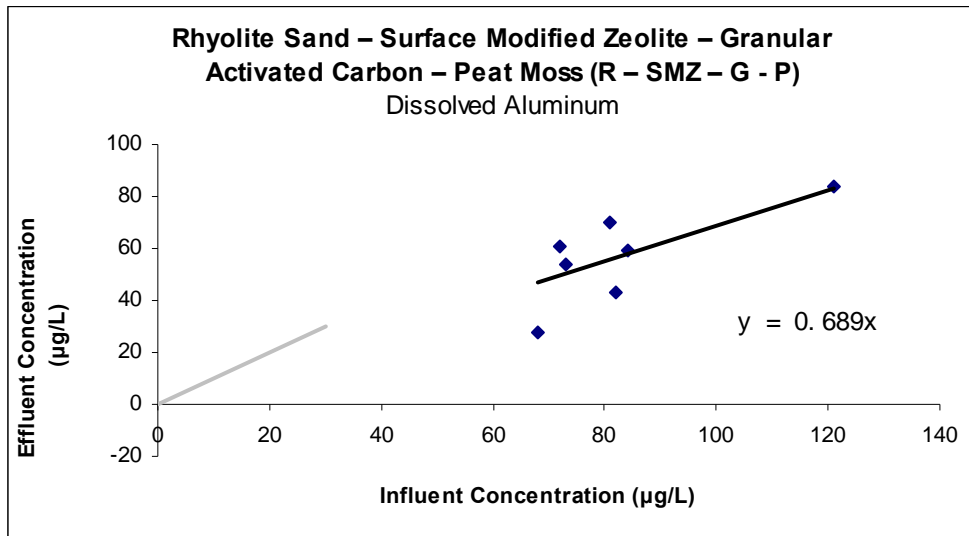
Regression Statistics	
Multiple R	0.982
R Square	0.964
Adjusted R Square	0.798
Standard Error	12.139
Observations	7.000

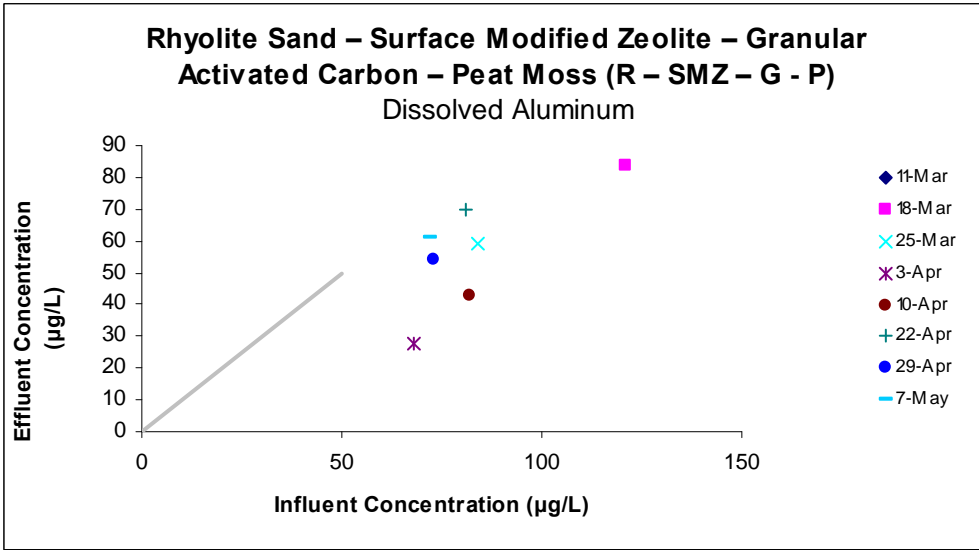
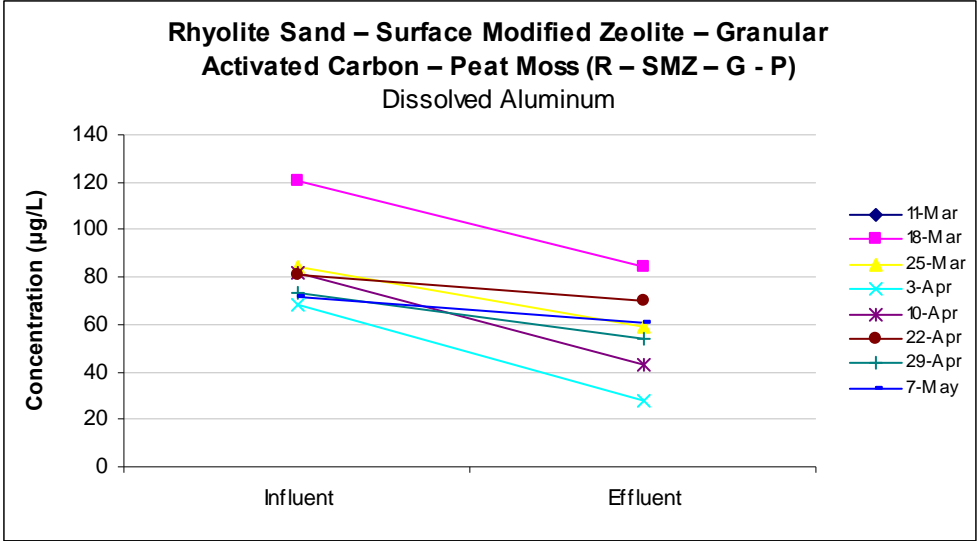
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	23822.880	23822.880	161.672	0.000
Residual	6.000	884.120	147.353		
Total	7.000	24707.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	0.689	0.054	12.715	0.000	0.557	0.822	0.557	0.822

## RESIDUAL OUTPUT

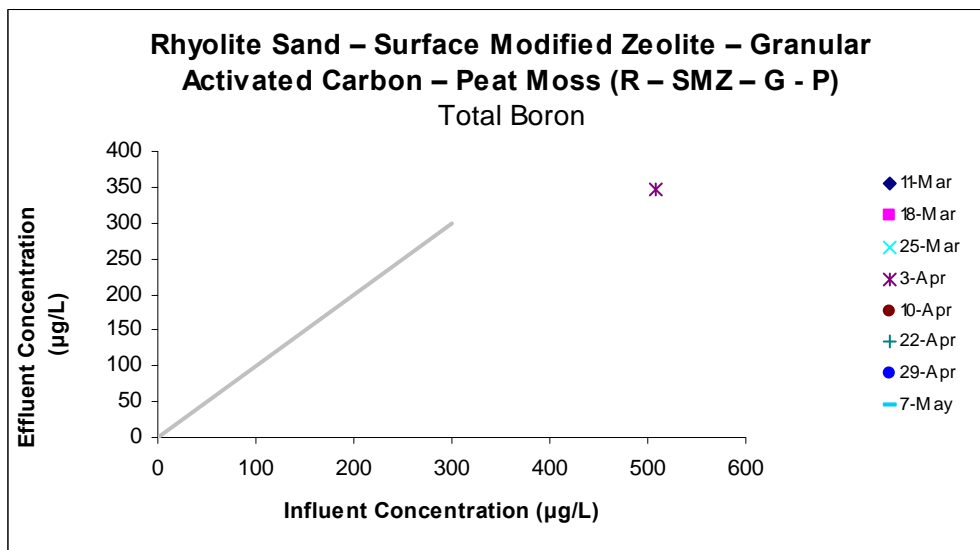
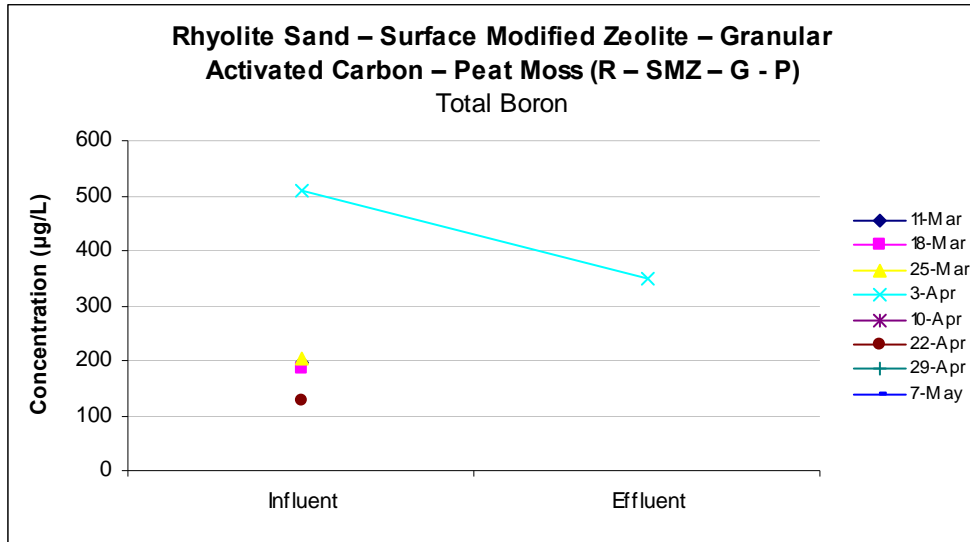
Observation	Predicted Y	Residuals
1	83.422	0.578
2	57.913	1.087
3	46.882	-18.882
4	56.534	-13.534
5	55.845	14.155
6	50.329	3.671
7	49.640	11.360



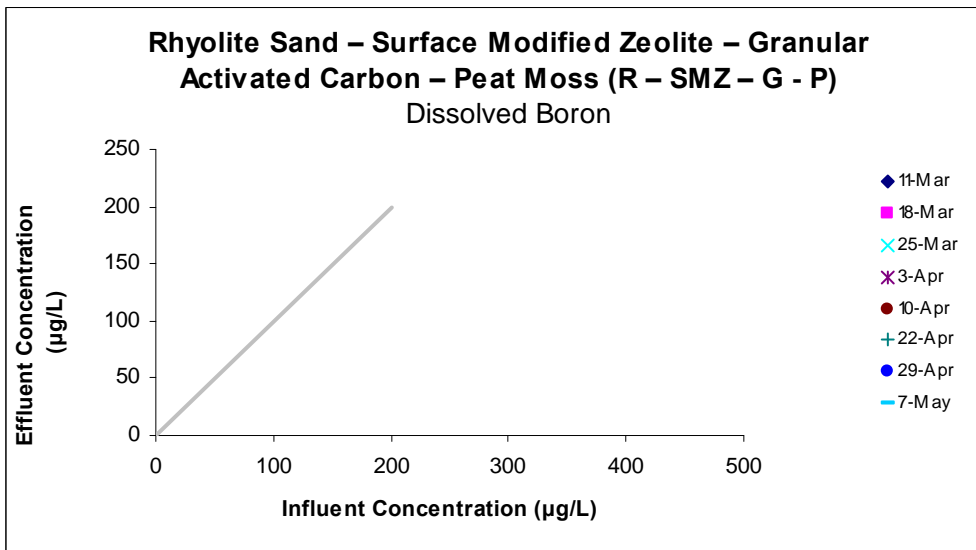
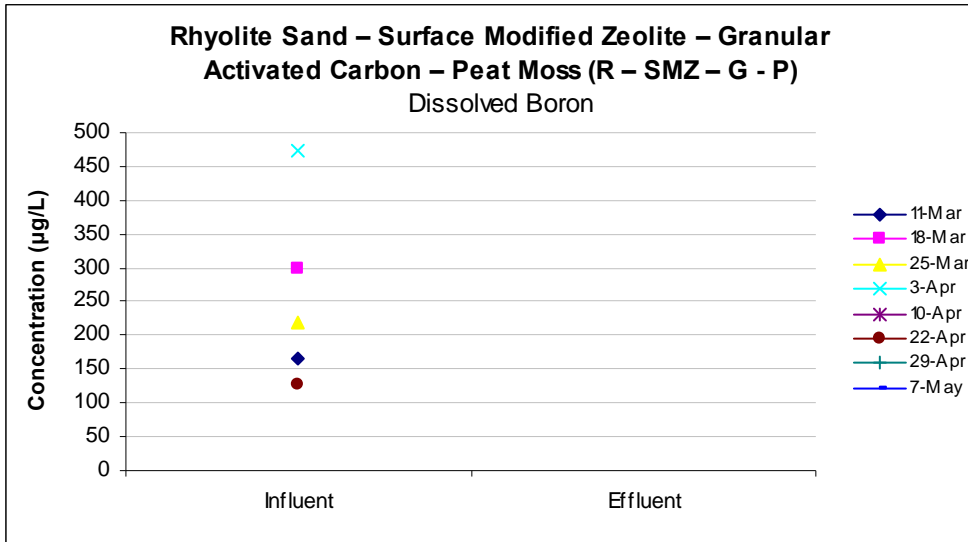




Total B



Dissolved B



# Total Ca

R-SMZ-GAC-PM

## SUMMARY OUTPUT

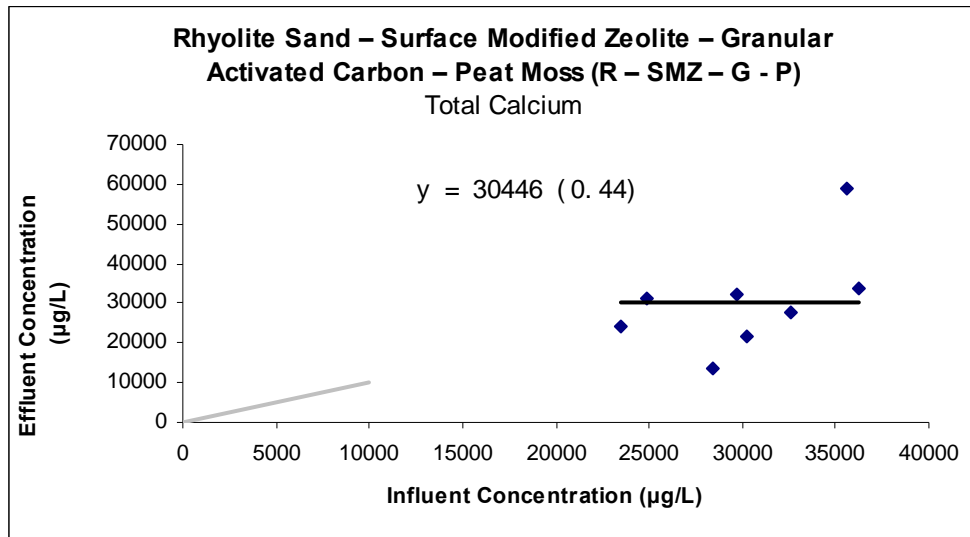
Regression Statistics	
Multiple R	0.538
R Square	0.290
Adjusted R Square	0.171
Standard Error	12118.685
Observations	8.000

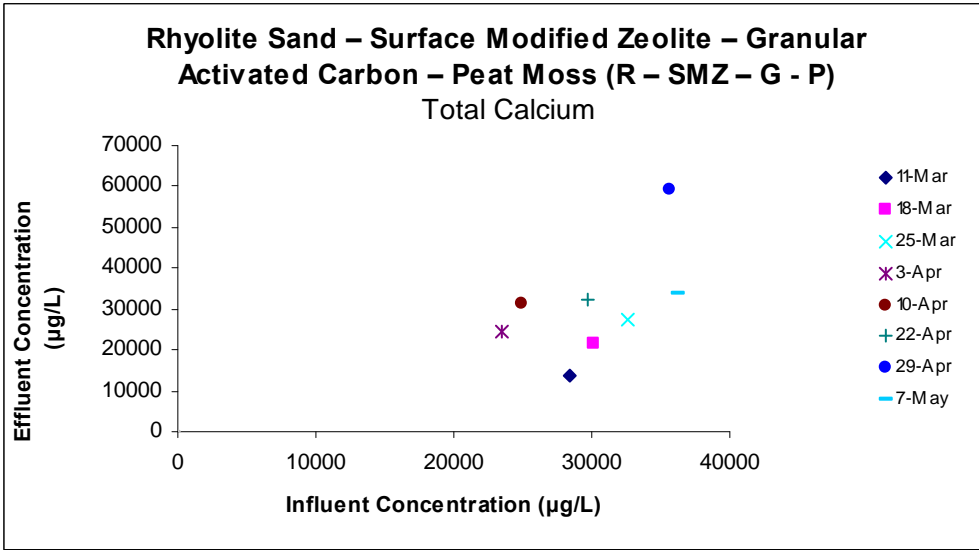
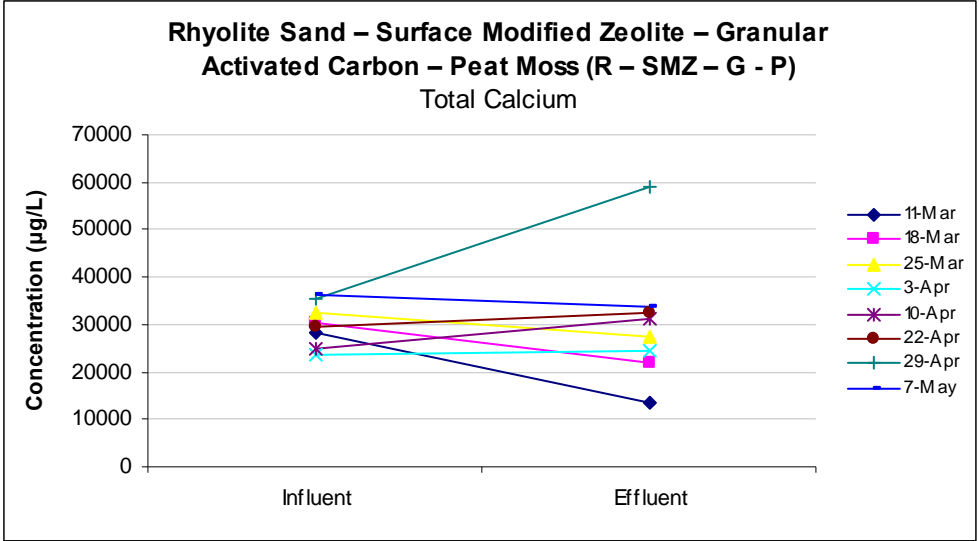
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	359618274.084	359618274.084	2.449	0.169
Residual	6.000	881175197.916	146862532.986		
Total	7.000	1240793472.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-16392.278	30237.091	-0.542	0.607	-90379.773	57595.218	-90379.773	57595.218
X Variable 1	1.554	0.993	1.565	0.169	-0.876	3.984	-0.876	3.984

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	27770.420	-14280.420
2	30550.304	-8795.304
3	34323.114	-6774.114
4	20094.275	4260.725
5	22246.393	9100.607
6	29695.672	2762.328
7	38925.693	20114.307
8	39962.128	-6388.128





# Dissolved Ca

R-SMZ-GAC-PM

## SUMMARY OUTPUT

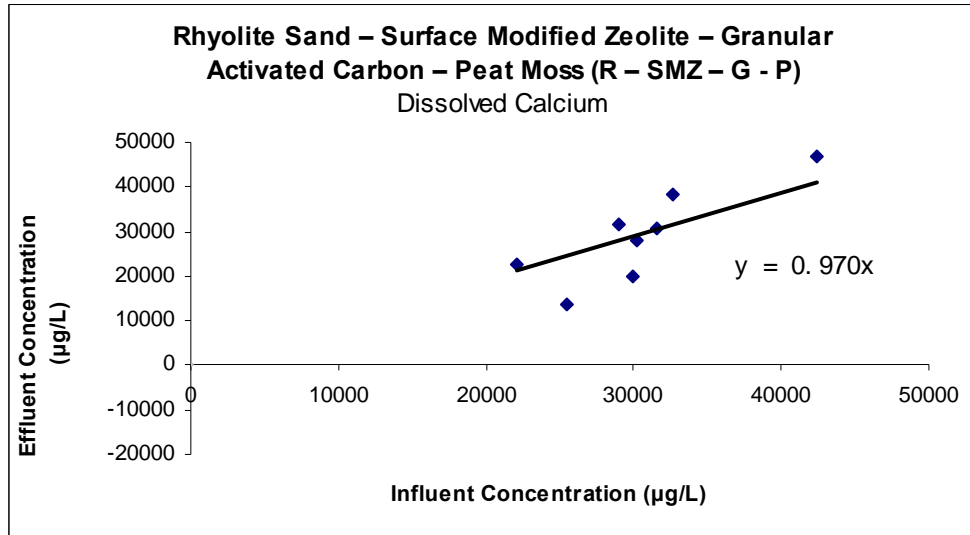
Regression Statistics	
Multiple R	0.980
R Square	0.961
Adjusted R Square	0.818
Standard Error	6455.693
Observations	8.000

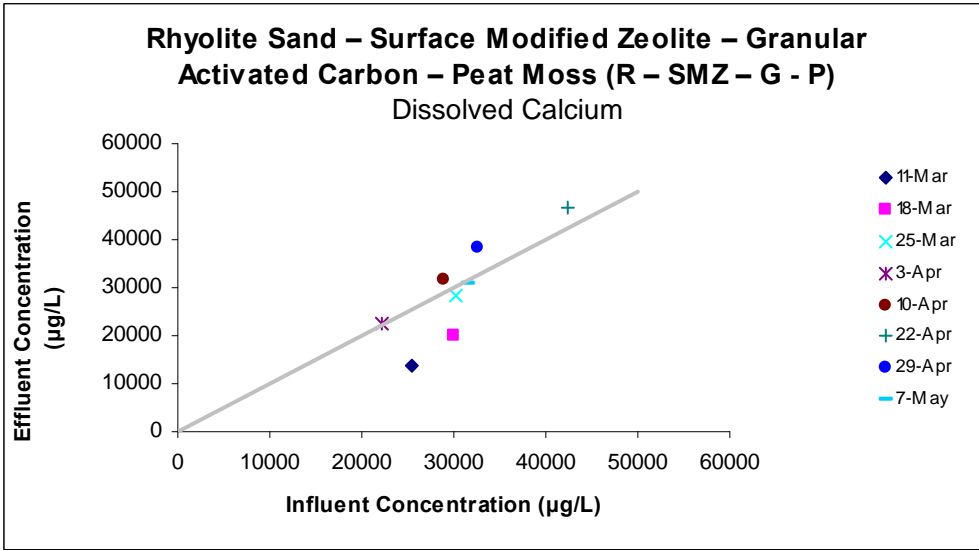
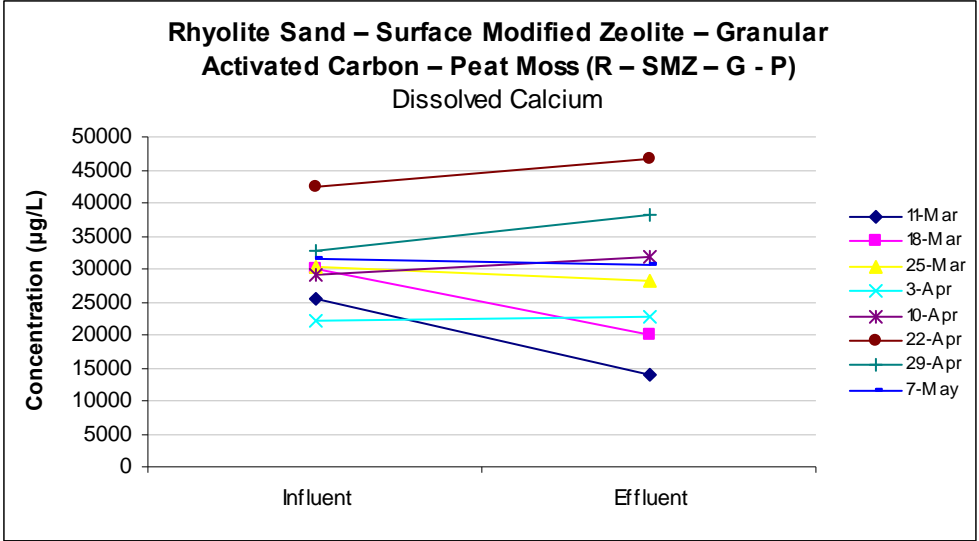
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	7197935994.739	7197935994.739	172.712	0.000
Residual	7.000	291731792.261	41675970.323		
Total	8.000	7489667787.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	0.970	0.074	13.142	0.000	0.795	1.144	0.795	1.144

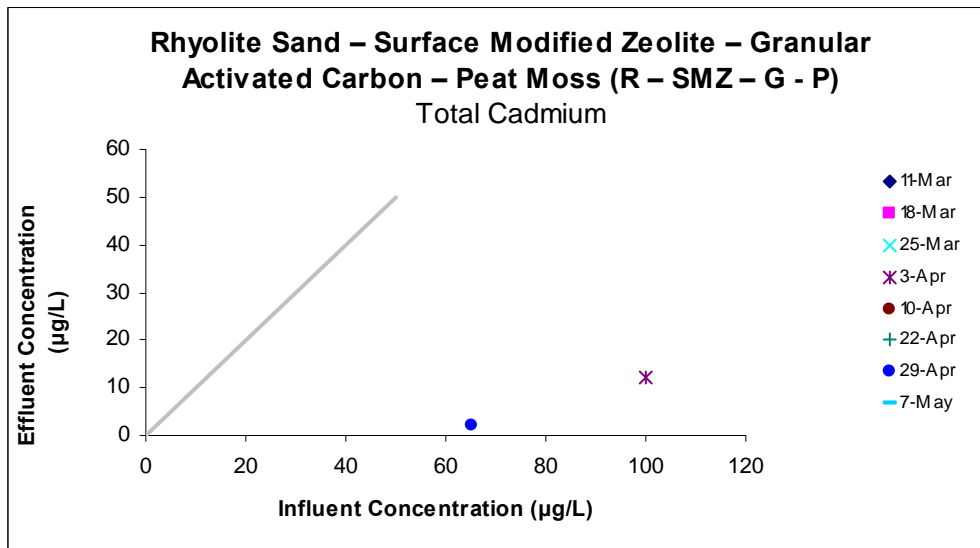
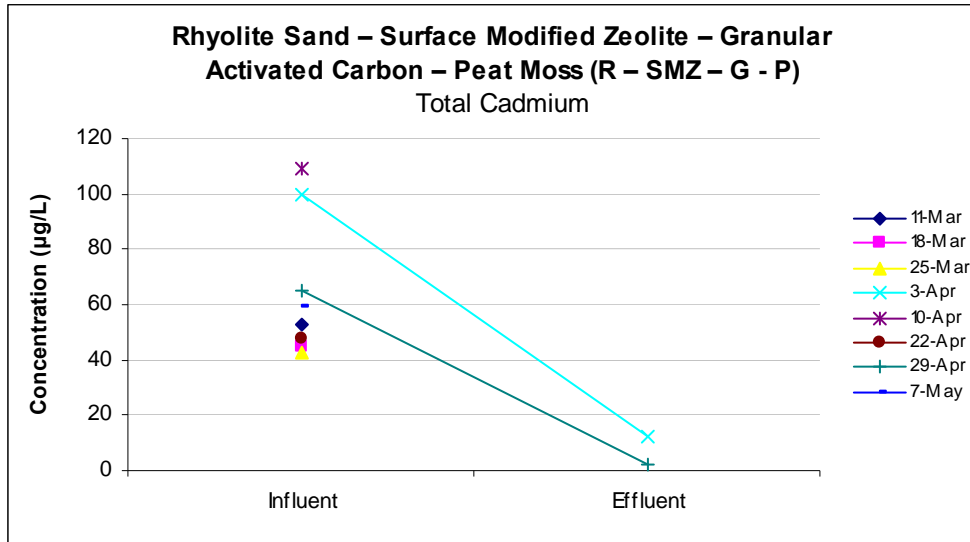
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	24733.181	-10945.181
2	29080.231	-8993.231
3	29353.740	-1195.740
4	21480.168	1102.832
5	28096.762	3664.238
6	41133.062	5566.938
7	31647.532	6632.468
8	30570.953	59.047

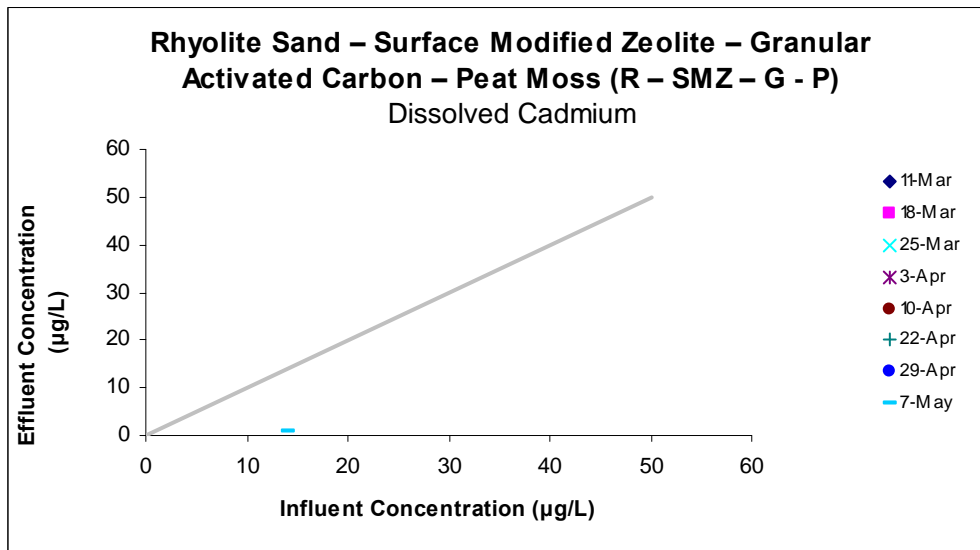
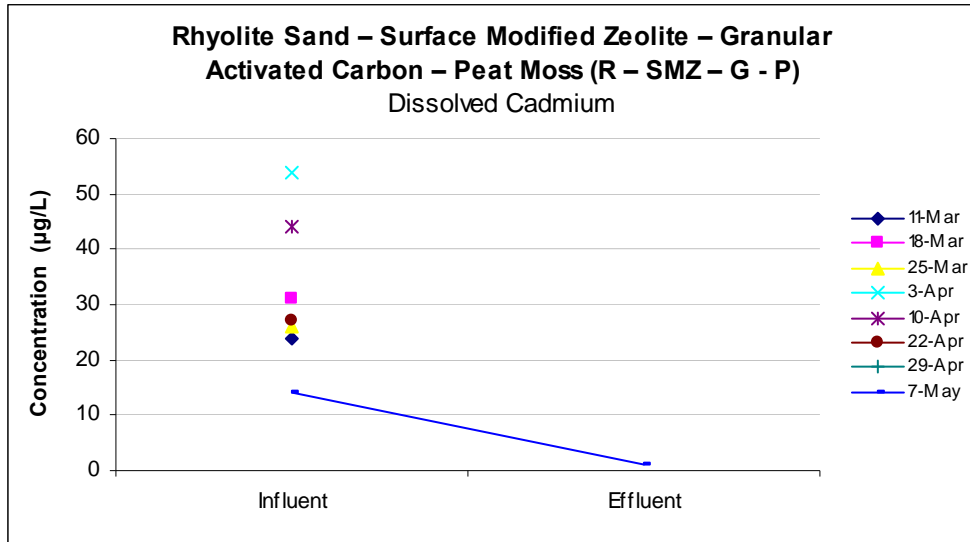




Total Cd



Dissolved Cd





# Toal Cu

R-SMZ-GAC-PM

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.080
R Square	0.006
Adjusted R Square	-0.159
Standard Error	8.575
Observations	8.000

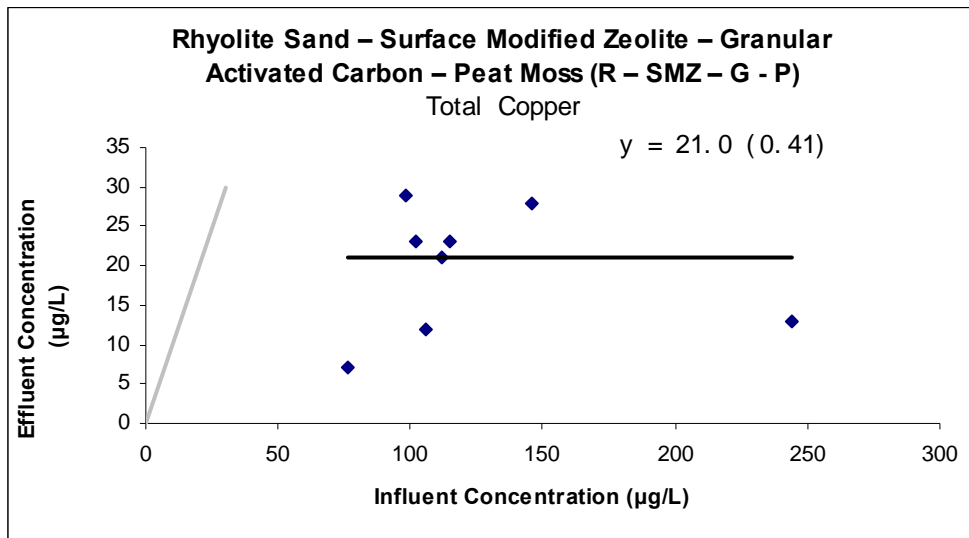
## ANOVA

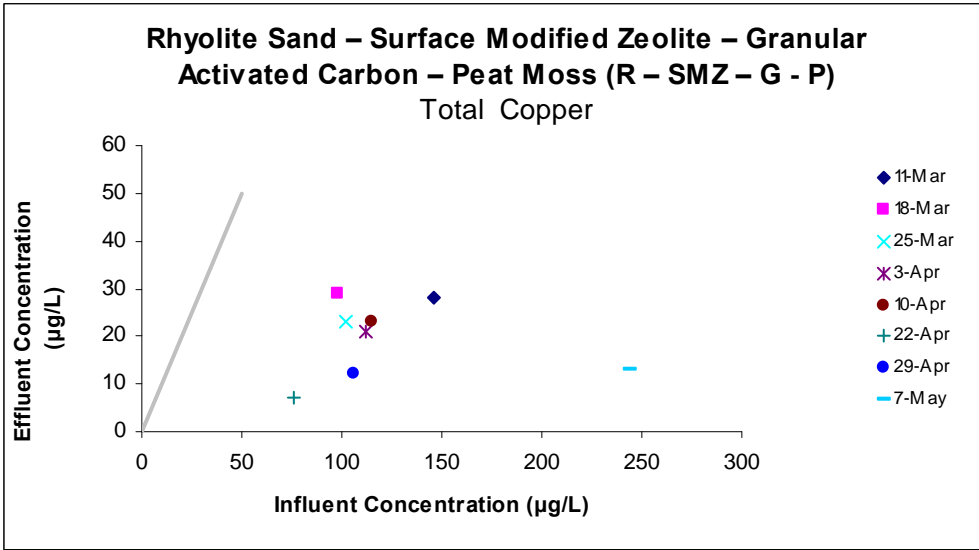
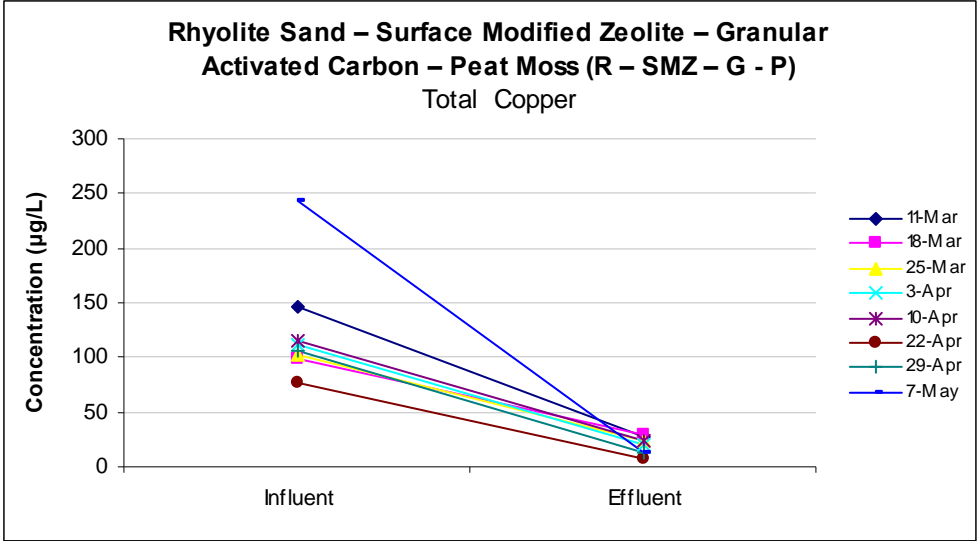
	df	SS	MS	F	Significance F
Regression	1.000	2.837	2.837	0.039	0.851
Residual	6.000	441.163	73.527		
Total	7.000	444.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	21.030	8.360	2.516	0.046	0.575	41.486	0.575	41.486
X Variable 1	-0.012	0.062	-0.196	0.851	-0.165	0.140	-0.165	0.140

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	19.241	8.759
2	19.829	9.171
3	19.780	3.220
4	19.658	1.342
5	19.621	3.379
6	20.099	-13.099
7	19.731	-7.731
8	18.040	-5.040





# Dissolved Cu

R-SMZ-GAC-PM

## SUMMARY OUTPUT

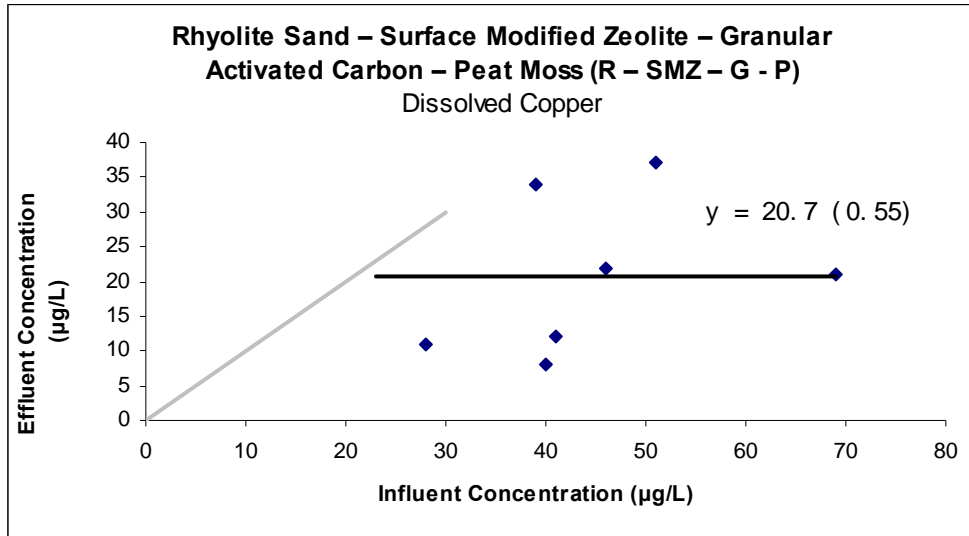
Regression Statistics	
Multiple R	0.333
R Square	0.111
Adjusted R Square	-0.067
Standard Error	11.745
Observations	7.000

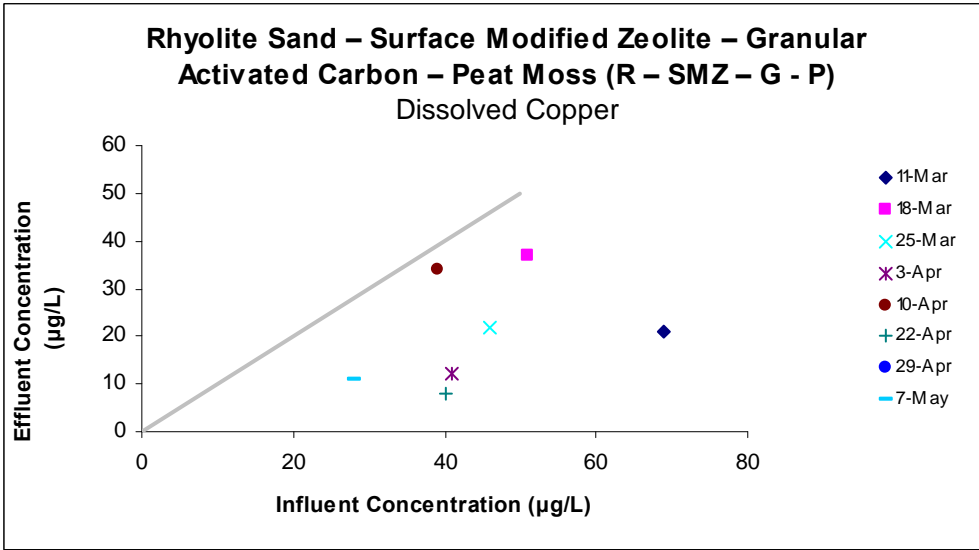
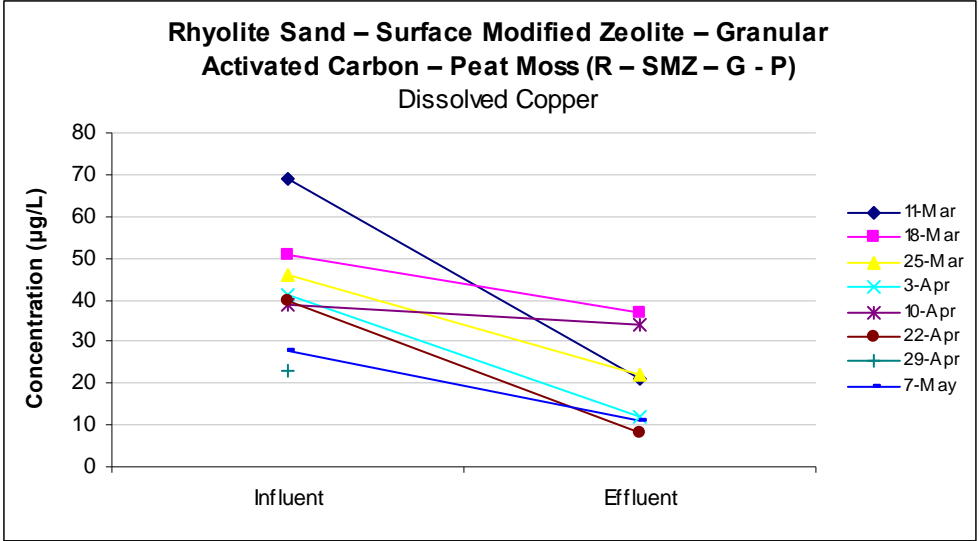
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	85.747	85.747	0.622	0.466
Residual	5.000	689.681	137.936		
Total	6.000	775.429			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	7.438	17.414	0.427	0.687	-37.327	52.202	-37.327	52.202
X Variable 1	0.296	0.375	0.788	0.466	-0.669	1.261	-0.669	1.261

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	27.860	-6.860
2	22.532	14.468
3	21.053	0.947
4	19.573	-7.573
5	18.981	15.019
6	19.277	-11.277
7	15.725	-4.725





# Total Fe

R-SMZ-GAC-PM

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.205
R Square	0.042
Adjusted R Square	-0.118
Standard Error	110.843
Observations	8.000

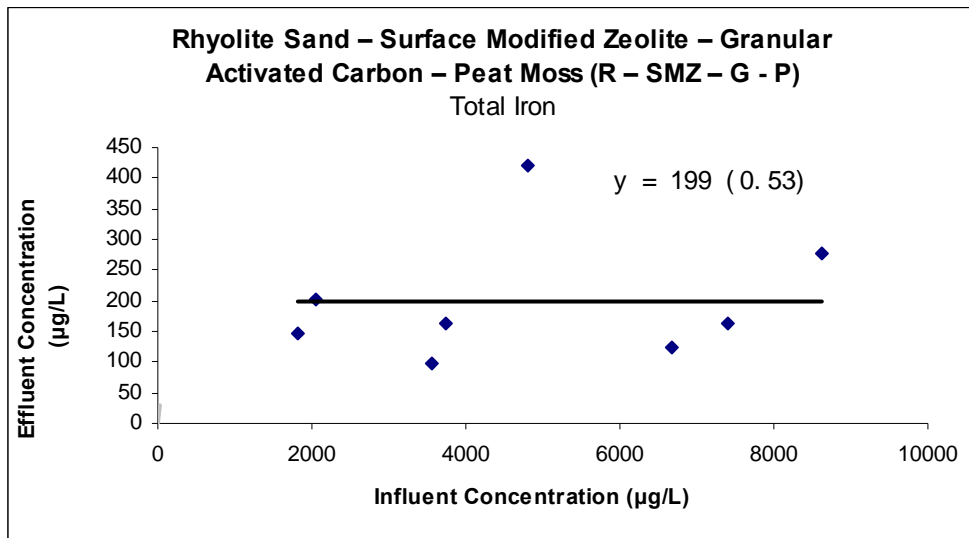
## ANOVA

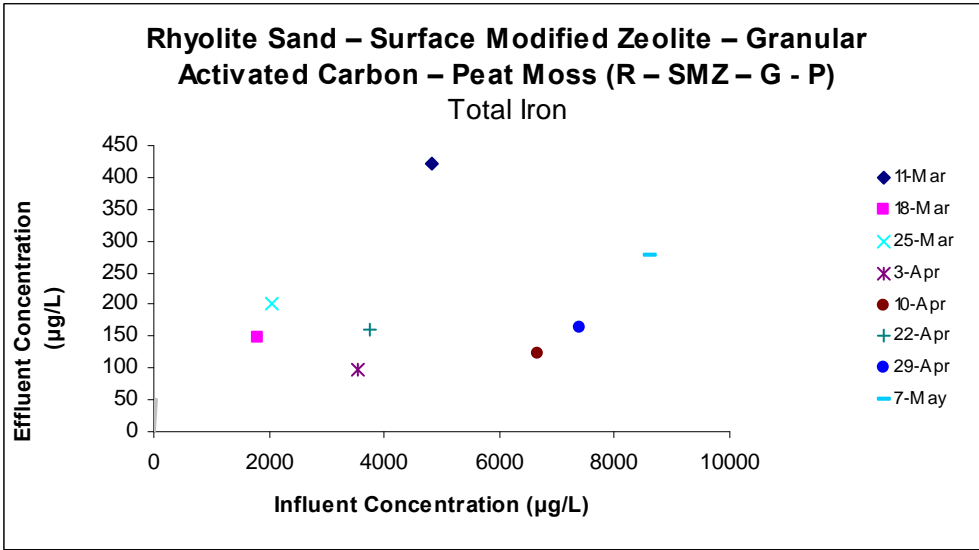
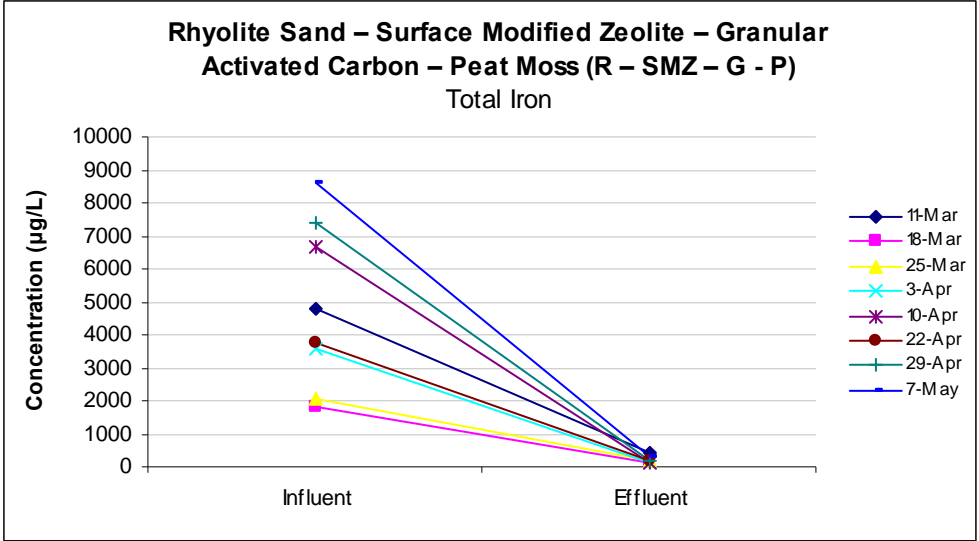
	df	SS	MS	F	Significance F
Regression	1.000	3219.857	3219.857	0.262	0.627
Residual	6.000	73717.018	12286.170		
Total	7.000	76936.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	157.725	89.866	1.755	0.130	-62.169	377.619	-62.169	377.619
X Variable 1	0.009	0.017	0.512	0.627	-0.032	0.049	-0.032	0.049

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	198.922	223.078
2	173.310	-26.310
3	175.262	25.738
4	188.192	-90.192
5	214.960	-91.960
6	189.836	-27.836
7	221.023	-57.023
8	231.495	44.505





# Dissolved Fe

R-SMZ-GAC-PM

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.926
R Square	0.857
Adjusted R Square	0.833
Standard Error	12.030
Observations	8.000

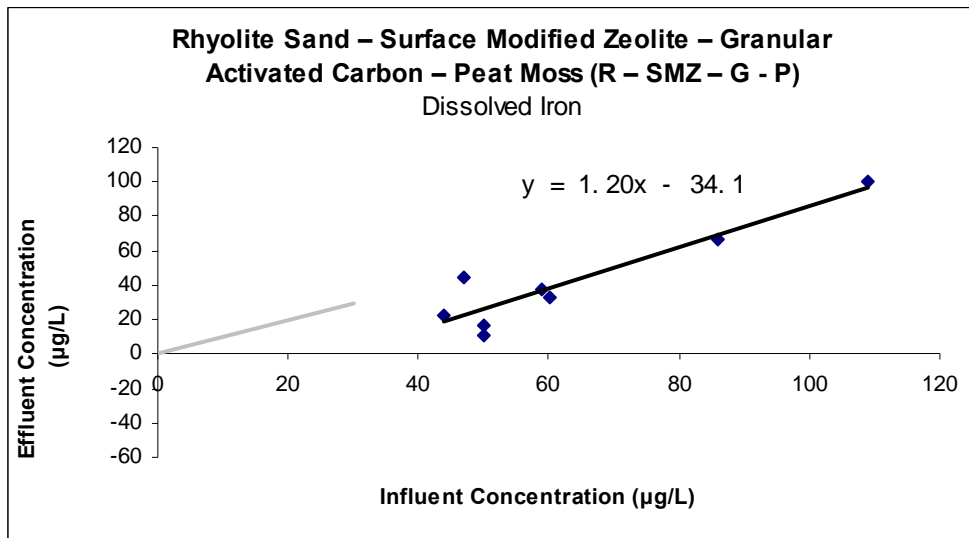
## ANOVA

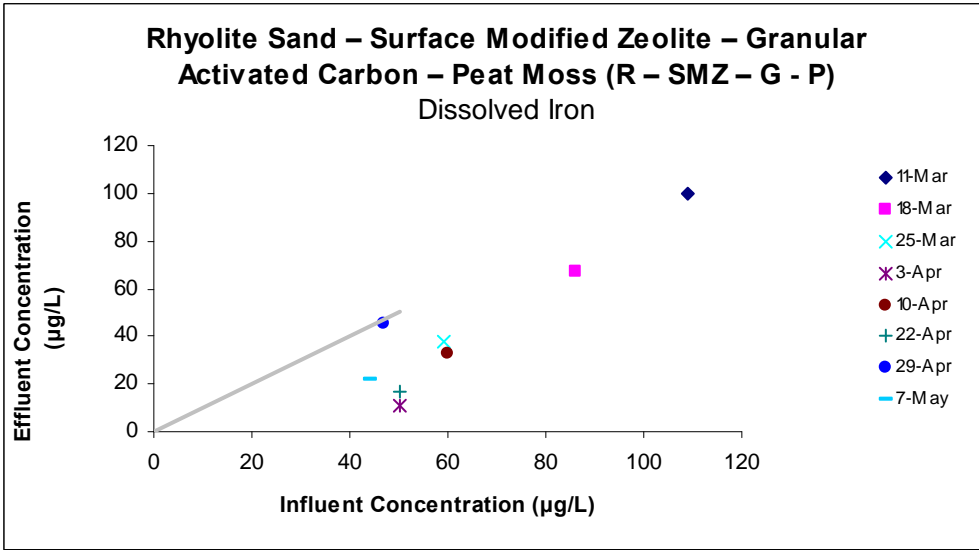
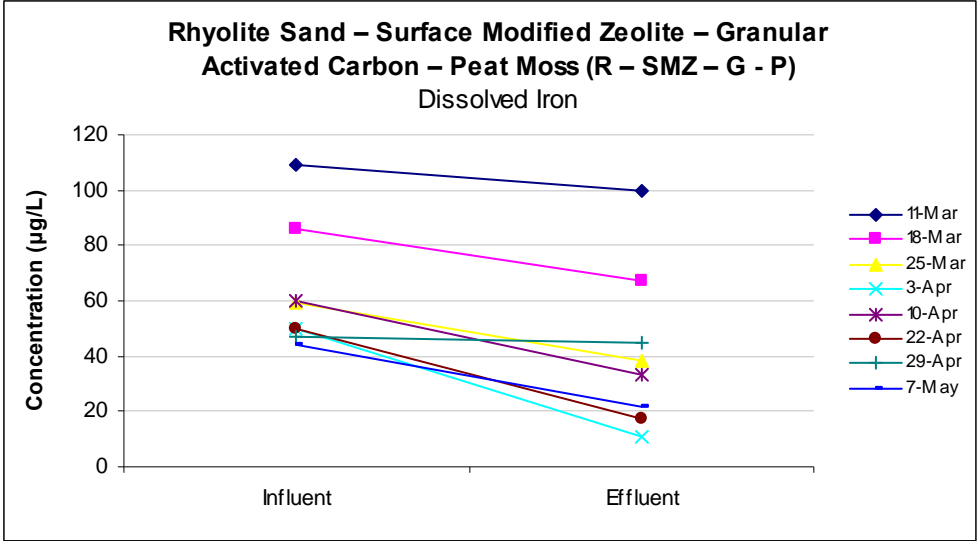
	df	SS	MS	F	Significance F
Regression	1.000	5211.483	5211.483	36.008	0.001
Residual	6.000	868.392	144.732		
Total	7.000	6079.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-34.064	13.311	-2.559	0.043	-66.636	-1.493	-66.636	-1.493
X Variable 1	1.199	0.200	6.001	0.001	0.710	1.688	0.710	1.688

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	96.631	3.369
2	69.053	-2.053
3	36.679	1.321
4	25.888	-14.888
5	37.878	-4.878
6	25.888	-8.888
7	22.290	22.710
8	18.693	3.307







# Total Mg

R-SMZ-GAC-PM

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.496
R Square	0.246
Adjusted R Square	0.120
Standard Error	1057.521
Observations	8.000

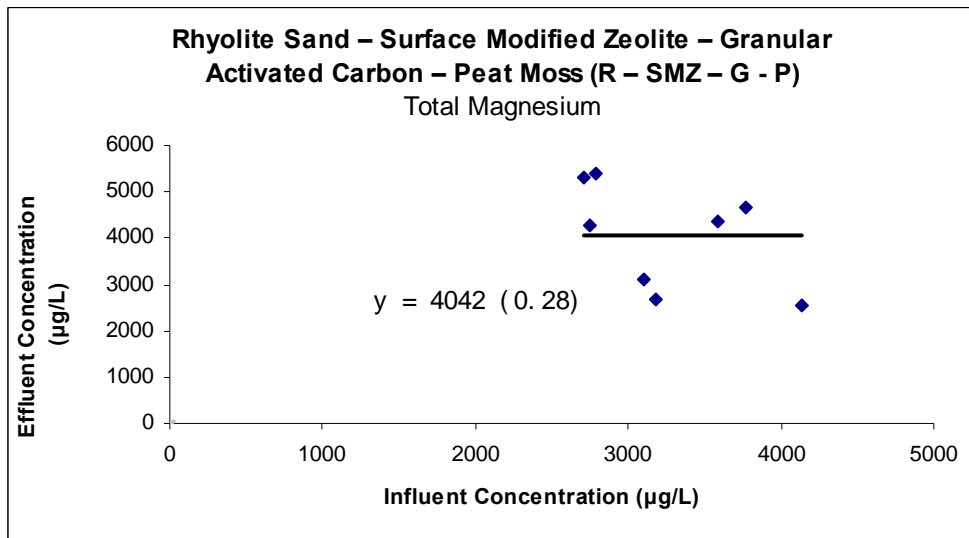
## ANOVA

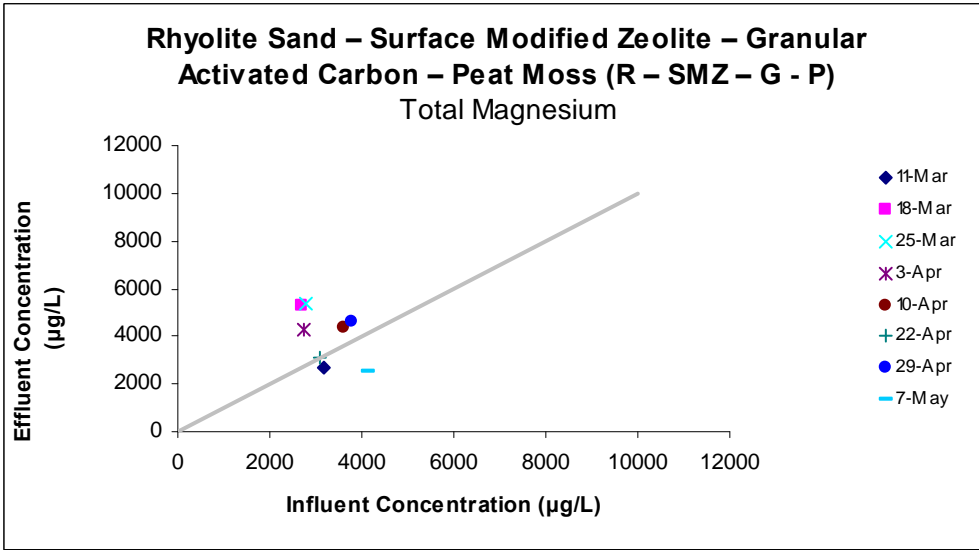
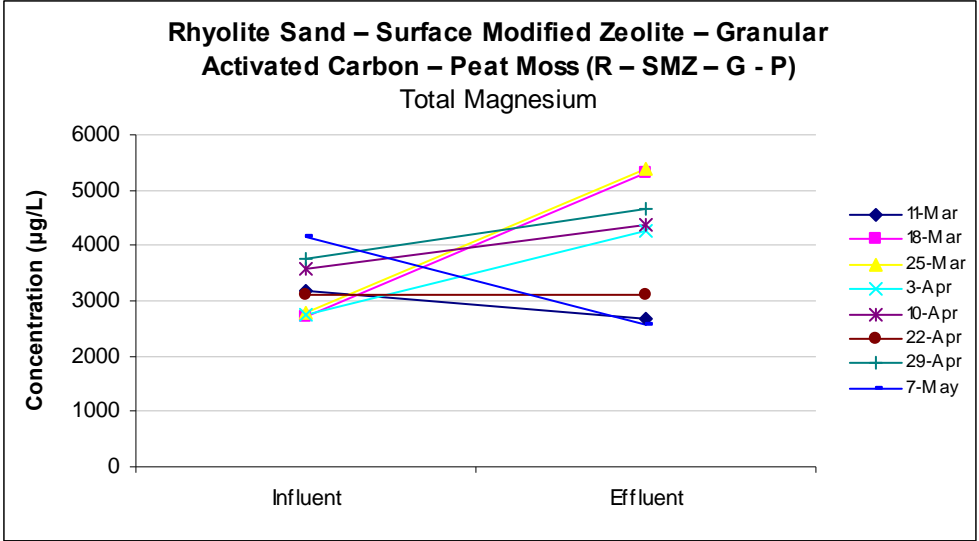
	df	SS	MS	F	Significance F
Regression	1.000	2185019.216	2185019.216	1.954	0.212
Residual	6.000	6710104.284	1118350.714		
Total	7.000	8895123.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	7464.930	2477.036	3.014	0.024	1403.841	13526.020	1403.841	13526.020
X Variable 1	-1.052	0.753	-1.398	0.212	-2.895	0.790	-2.895	0.790

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	4119.339	-1448.339
2	4618.178	683.822
3	4529.776	865.224
4	4577.134	-315.134
5	3686.801	688.199
6	4203.531	-1078.531
7	3494.211	1161.789
8	3109.031	-557.031





# Dissolved Mg

R-SMZ-GAC-PM

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.355
R Square	0.126
Adjusted R Square	-0.019
Standard Error	975.985
Observations	8.000

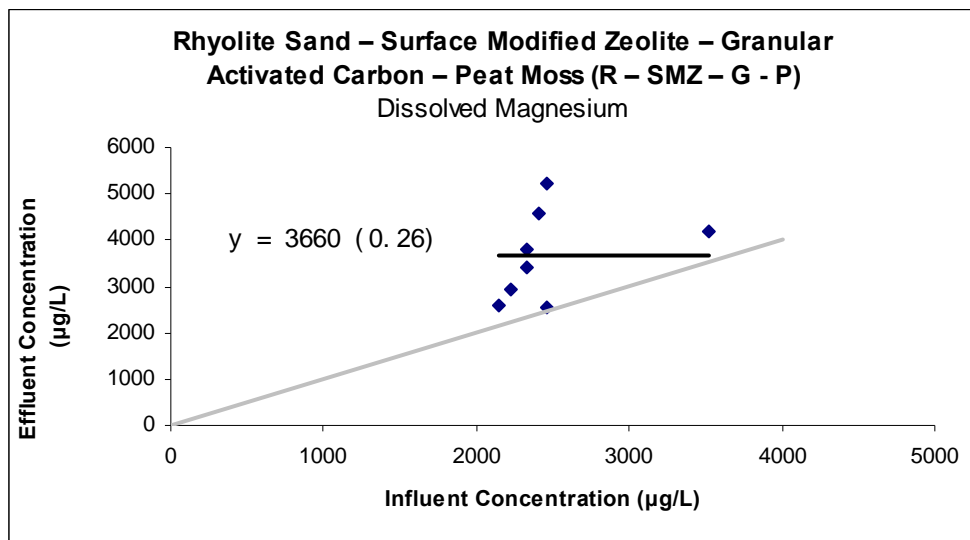
## ANOVA

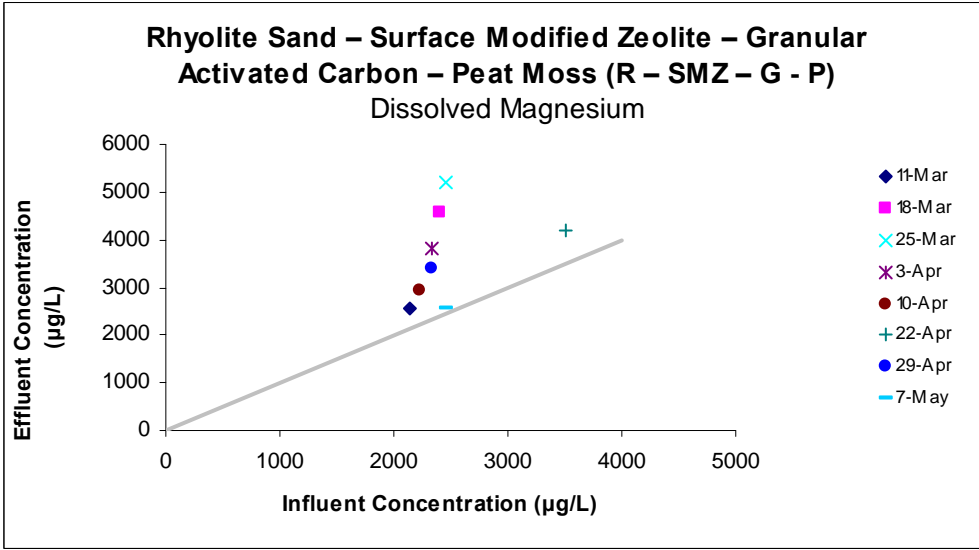
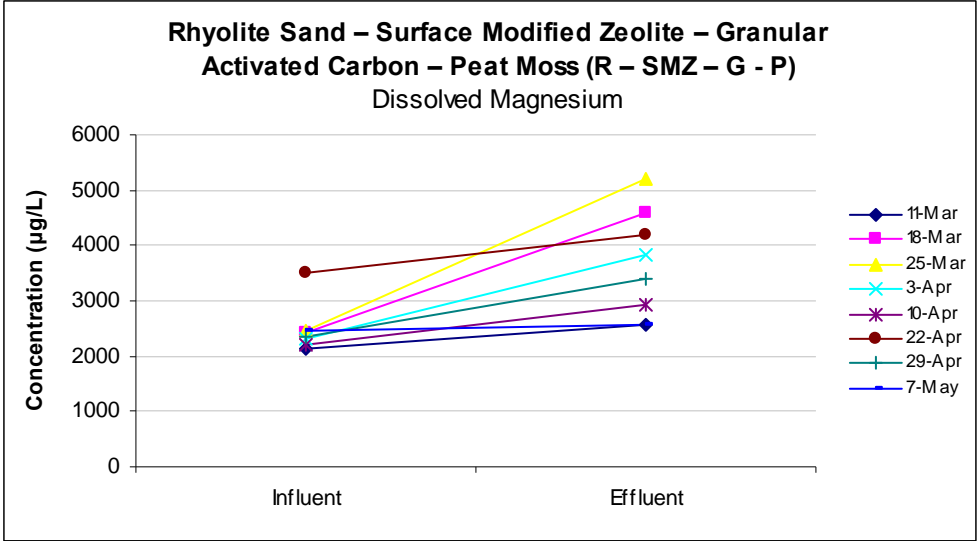
	df	SS	MS	F	Significance F
Regression	1.000	825057.910	825057.910	0.866	0.388
Residual	6.000	5715276.090	952546.015		
Total	7.000	6540334.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	1686.265	2148.640	0.785	0.462	-3571.267	6943.797	-3571.267	6943.797
X Variable 1	0.795	0.854	0.931	0.388	-1.295	2.884	-1.295	2.884

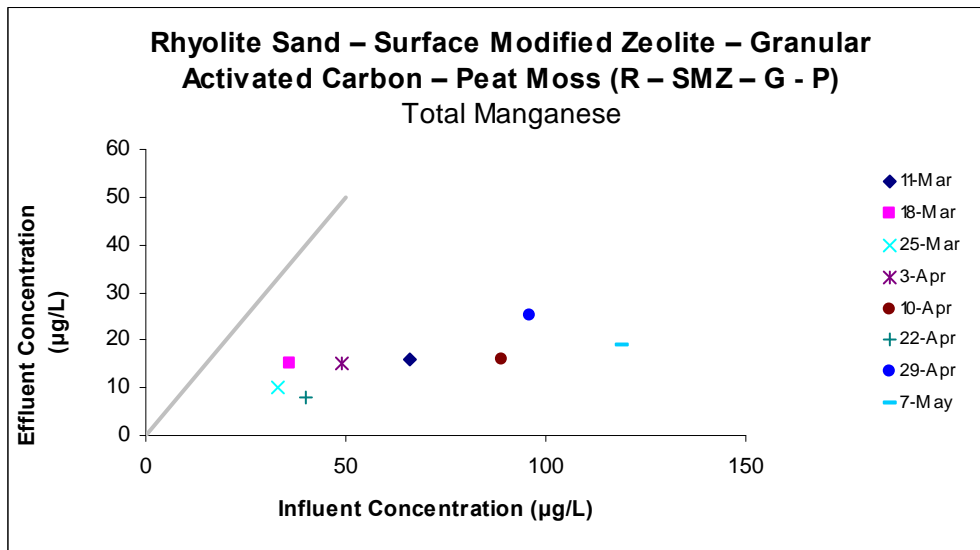
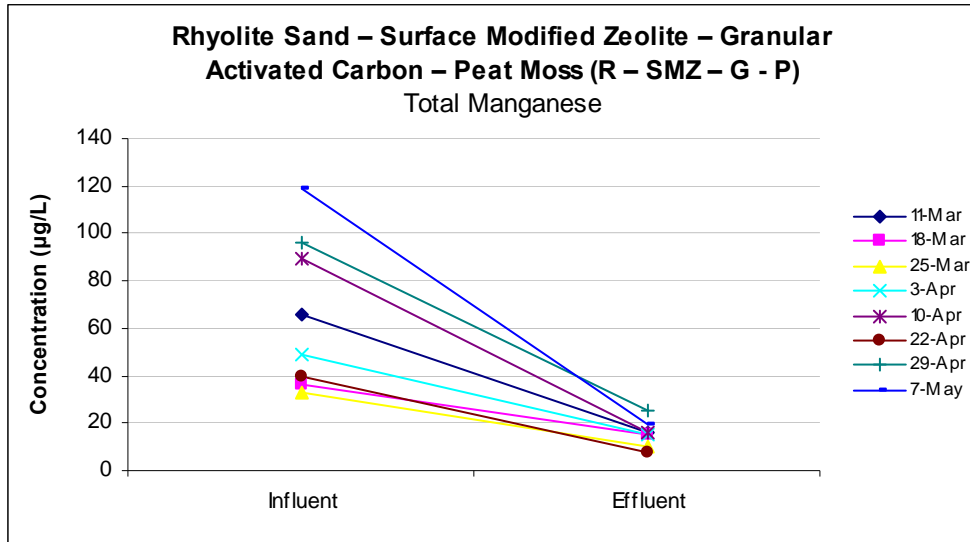
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	3390.186	-814.186
2	3596.818	988.182
3	3643.708	1569.292
4	3535.623	279.377
5	3451.381	-506.381
6	4481.363	-294.363
7	3541.981	-138.981
8	3638.939	-1082.939

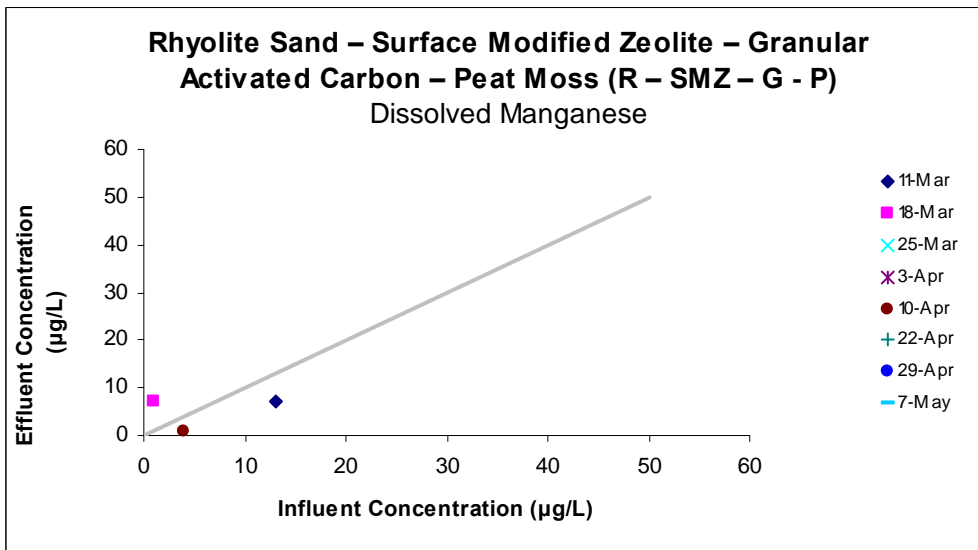
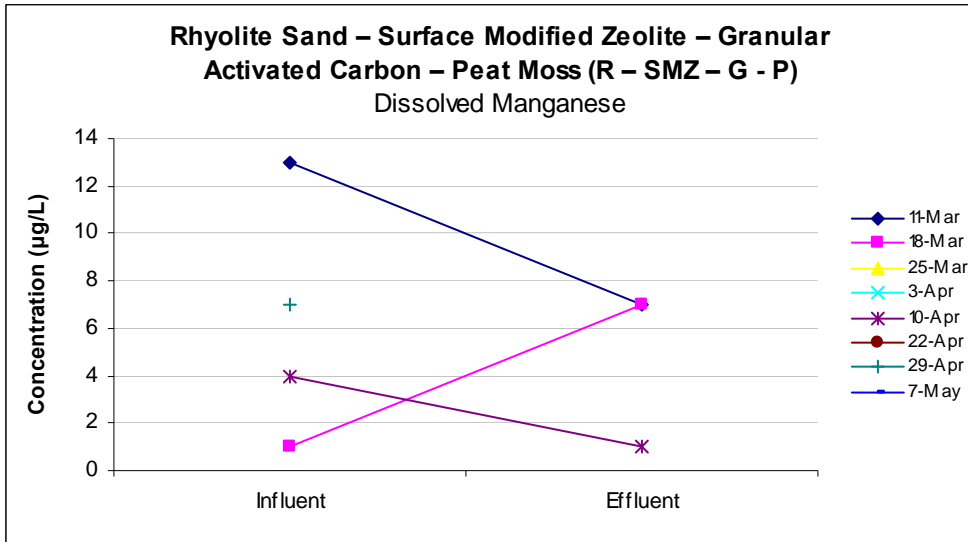




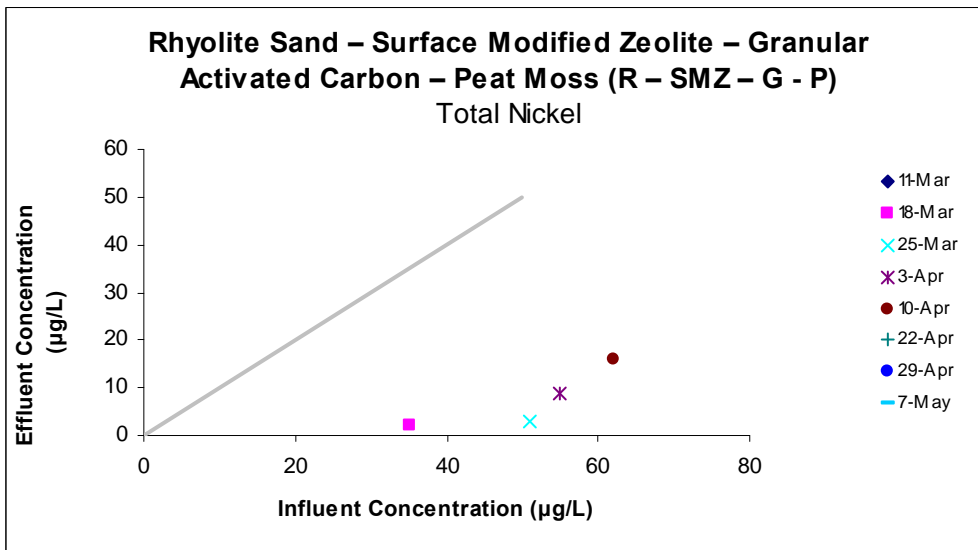
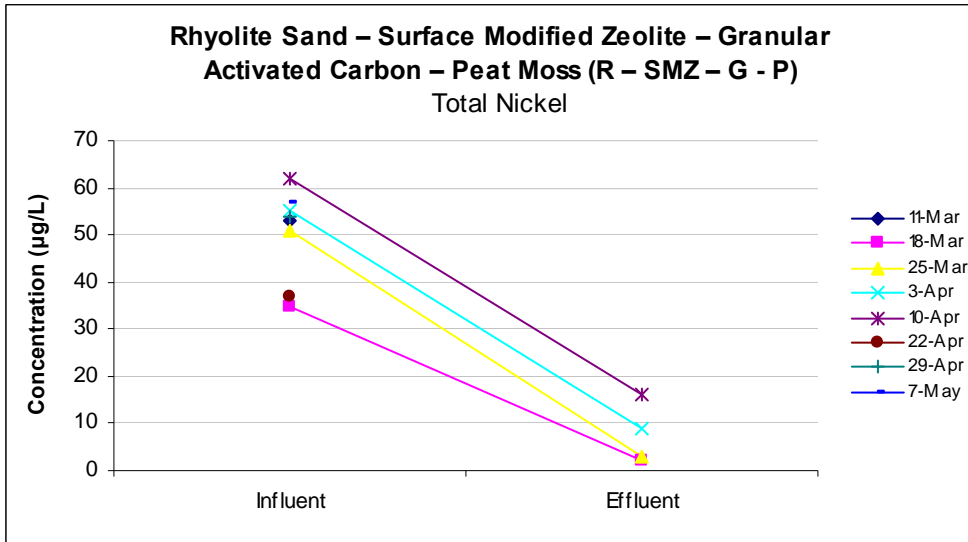
Total Mn



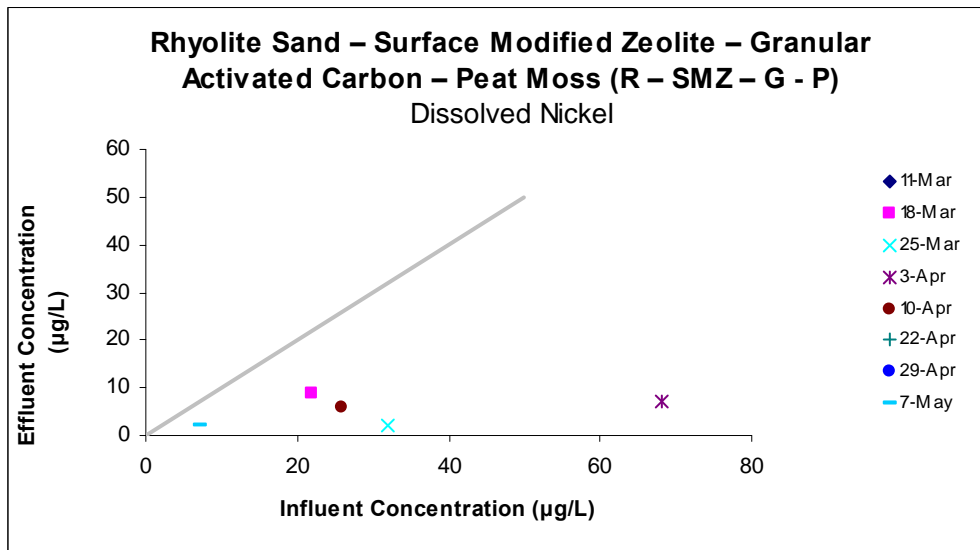
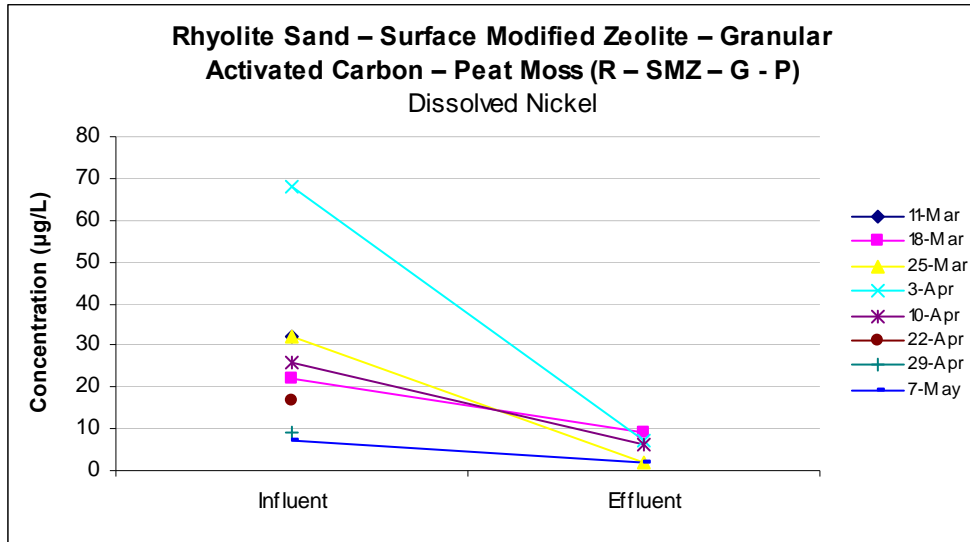
Dissolved Mn



Total Ni

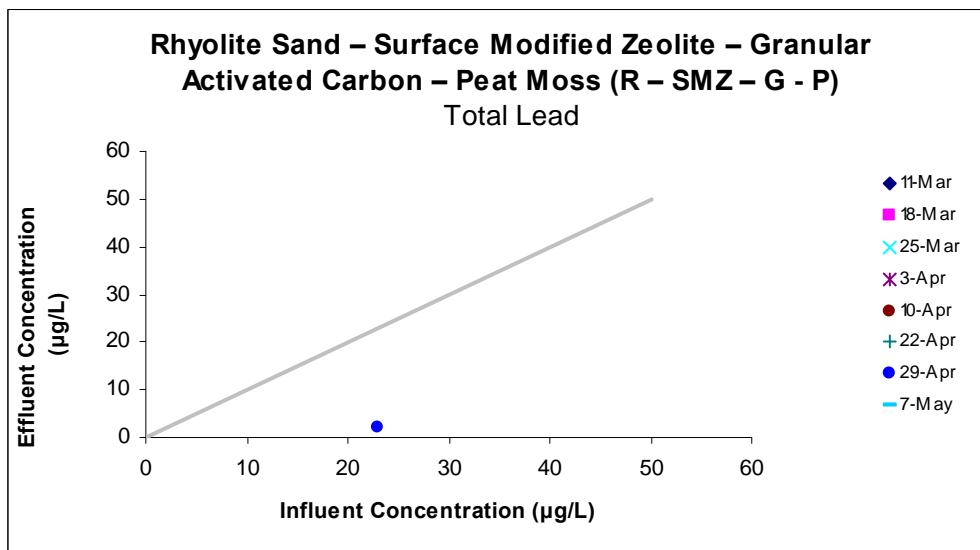
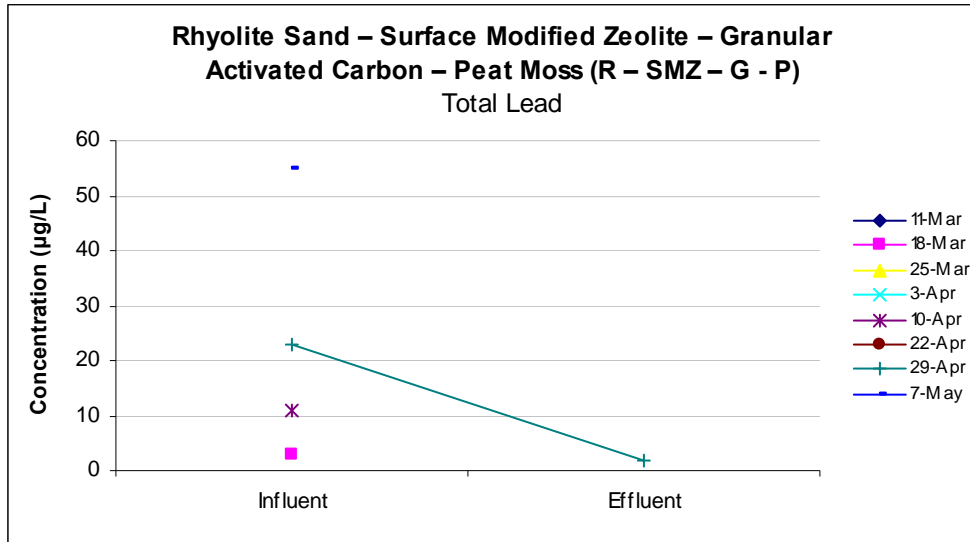


Dissolved Ni

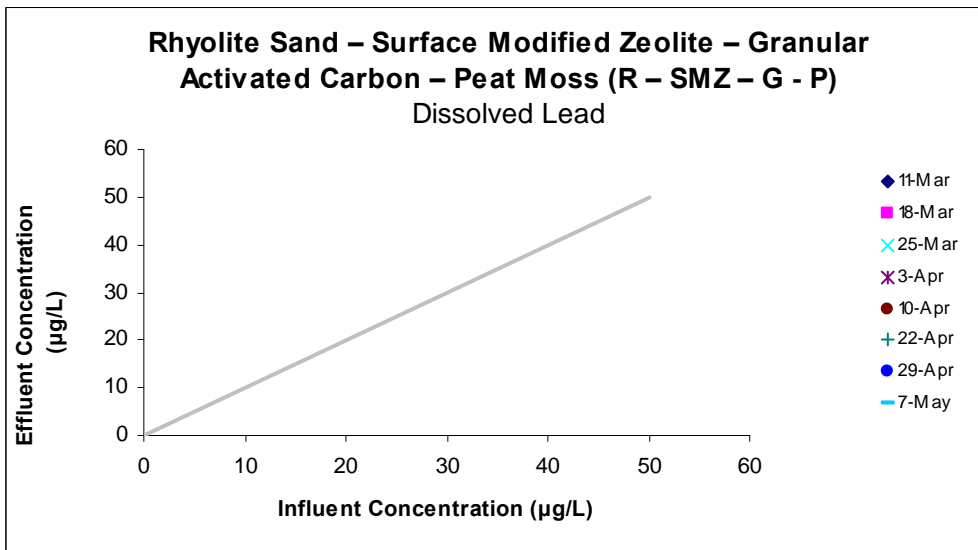
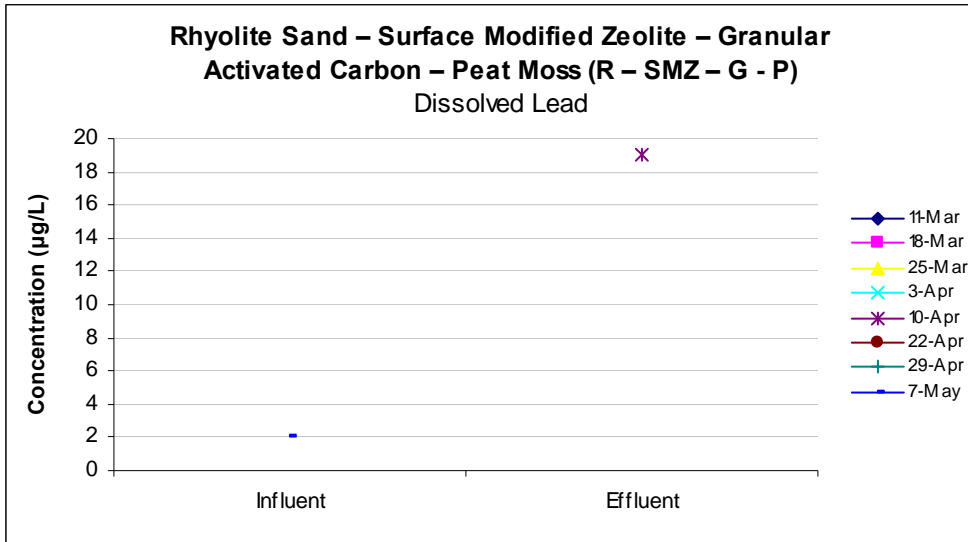




Total Pb



Dissolved Pb



# Total Zn

R-SMZ-GAC-PM

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.076
R Square	0.006
Adjusted R Square	-0.160
Standard Error	21.017
Observations	8.000

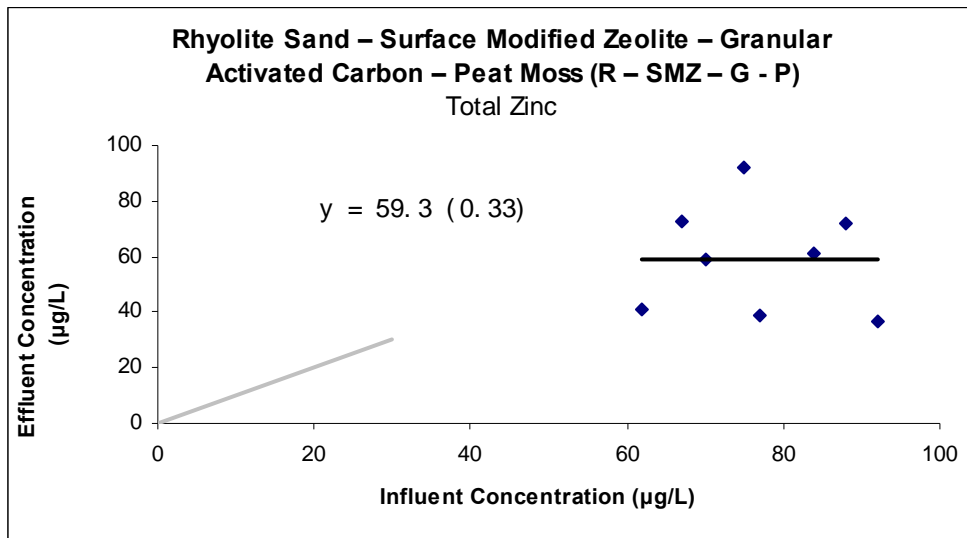
## ANOVA

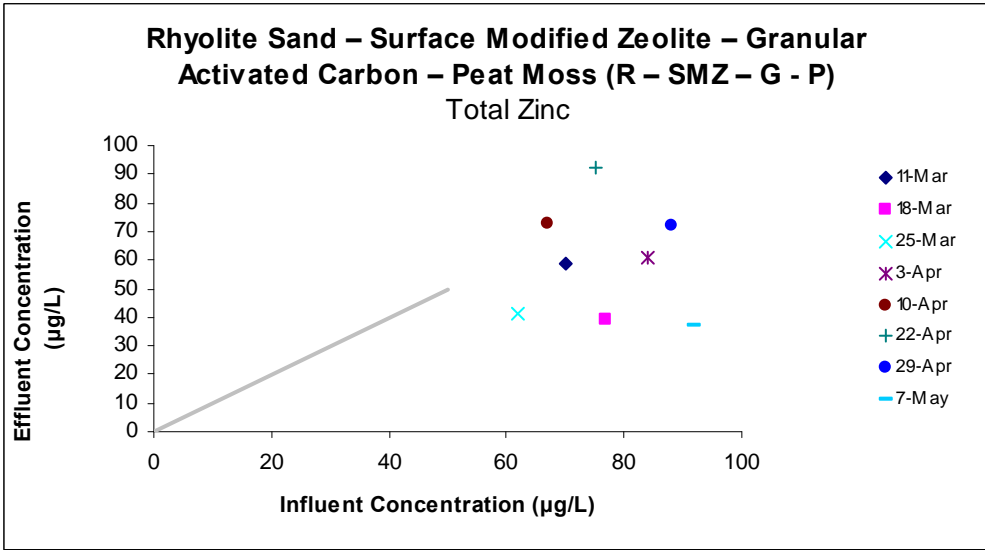
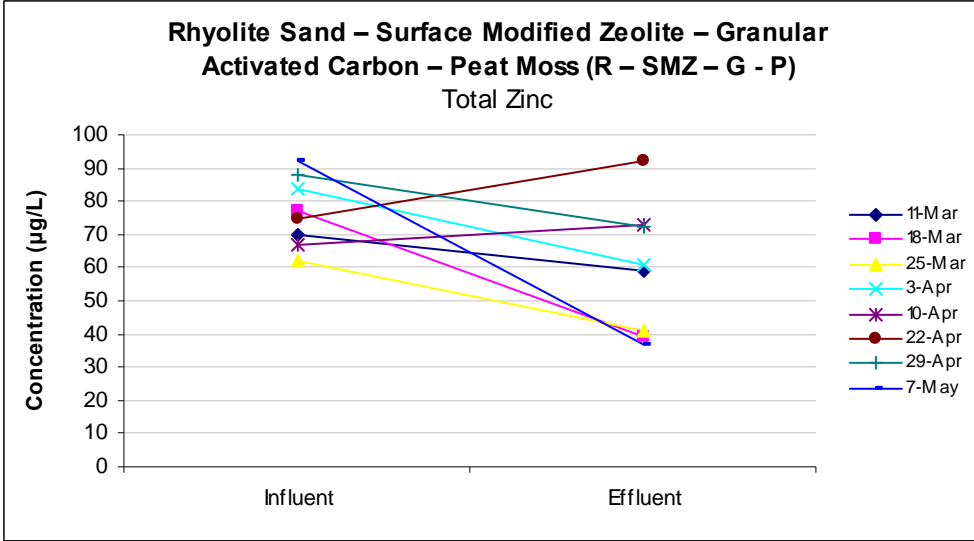
	df	SS	MS	F	Significance F
Regression	1.000	15.302	15.302	0.035	0.858
Residual	6.000	2650.198	441.700		
Total	7.000	2665.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	70.067	58.589	1.196	0.277	-73.295	213.429	-73.295	213.429
X Variable 1	-0.141	0.756	-0.186	0.858	-1.991	1.709	-1.991	1.709

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	60.217	-1.217
2	59.232	-20.232
3	61.343	-20.343
4	58.247	2.753
5	60.639	12.361
6	59.514	32.486
7	57.685	14.315
8	57.122	-20.122





# Dissolved Zn

R-SMZ-GAC-PM

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.110
R Square	0.012
Adjusted R Square	-0.153
Standard Error	19.296
Observations	8.000

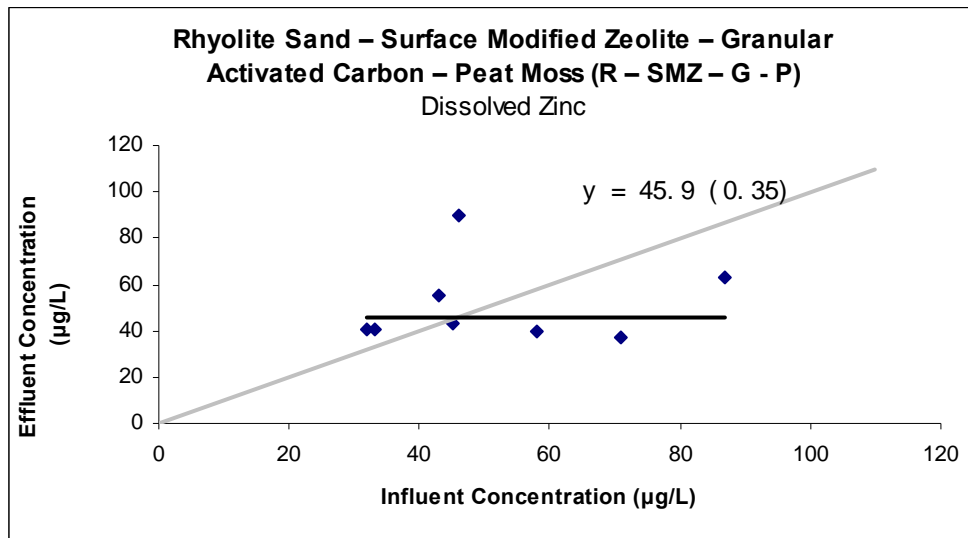
## ANOVA

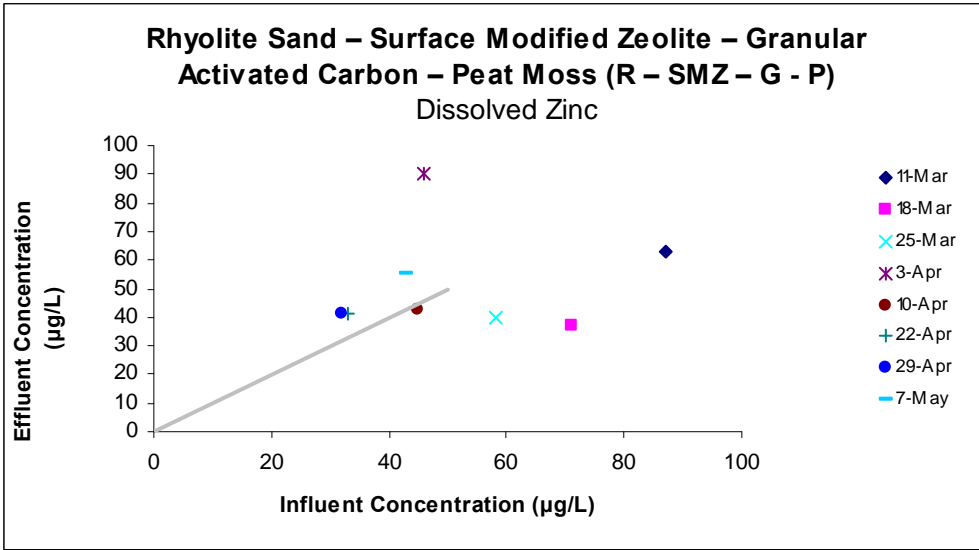
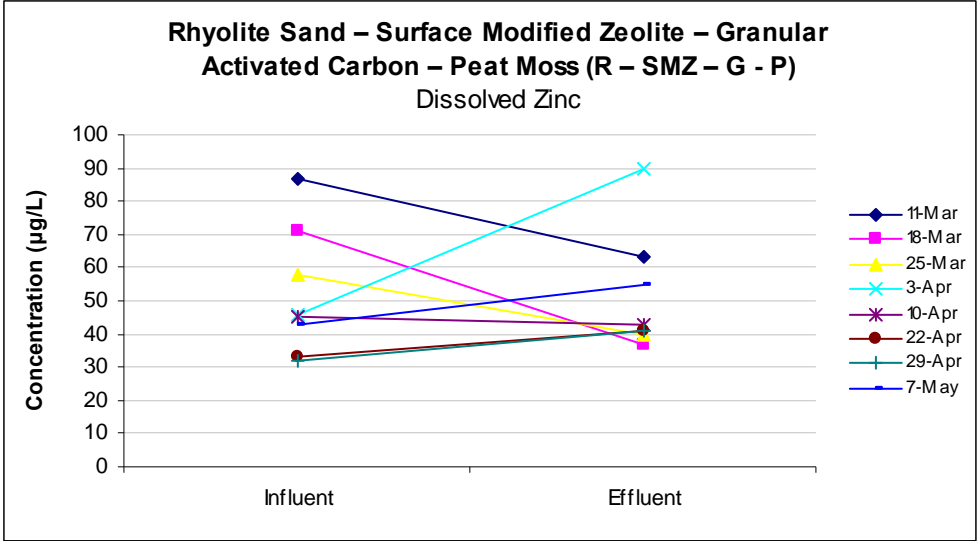
	df	SS	MS	F	Significance F
Regression	1.000	27.396	27.396	0.074	0.795
Residual	6.000	2234.104	372.351		
Total	7.000	2261.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	45.872	20.968	2.188	0.071	-5.435	97.179	-5.435	97.179
X Variable 1	0.104	0.382	0.271	0.795	-0.832	1.039	-0.832	1.039

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	54.892	8.108
2	53.233	-16.233
3	51.885	-11.885
4	50.641	39.359
5	50.537	-7.537
6	49.293	-8.293
7	49.189	-8.189
8	50.330	4.670





# Total K

R-SMZ-GAC-PM

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.368
R Square	0.135
Adjusted R Square	-0.009
Standard Error	1643.976
Observations	8.000

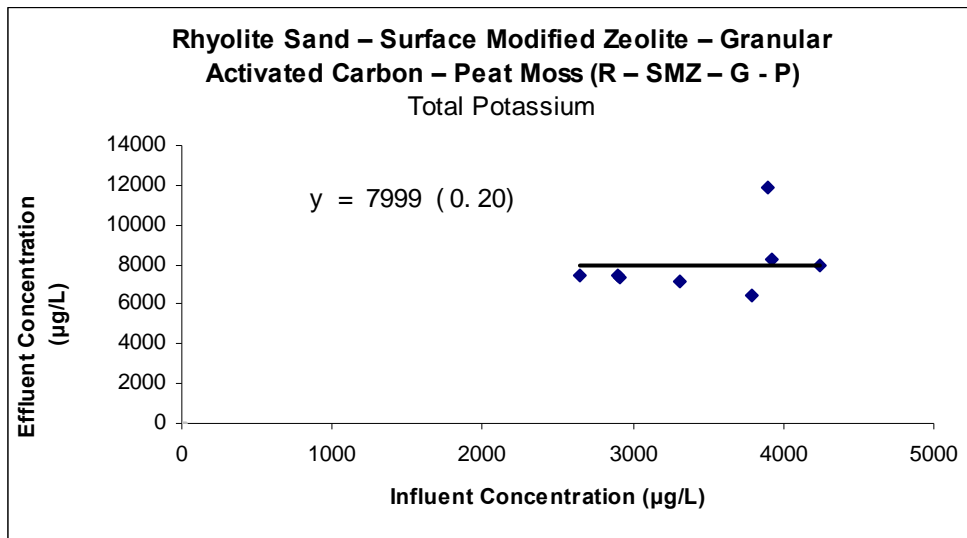
## ANOVA

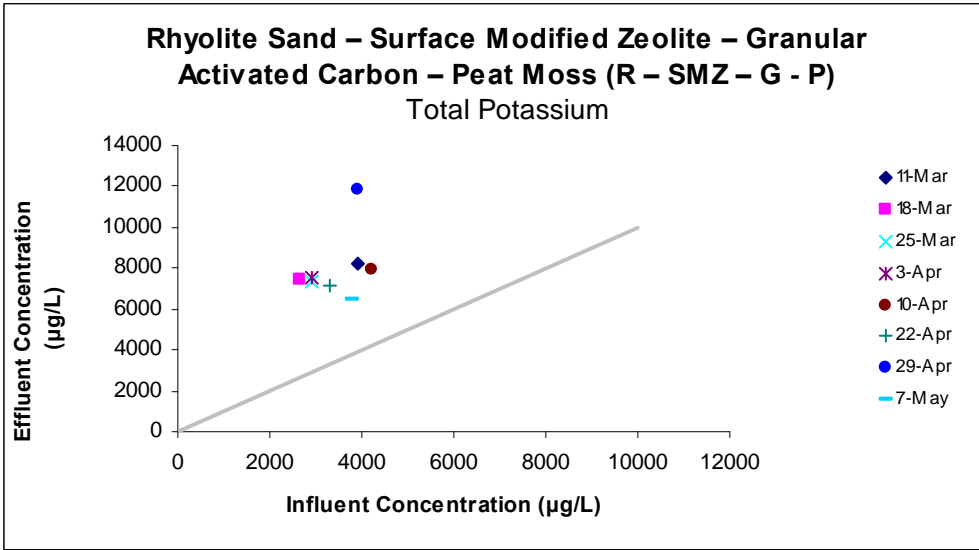
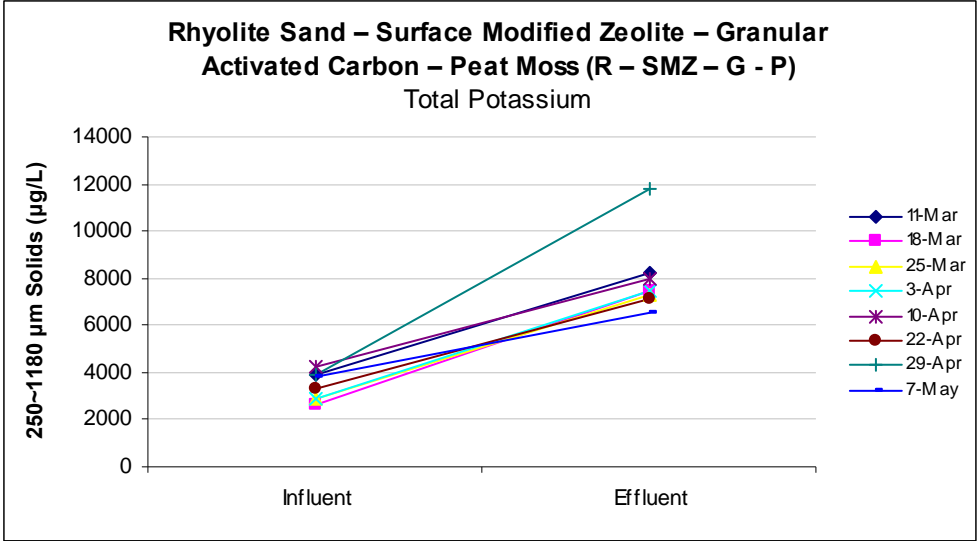
	df	SS	MS	F	Significance F
Regression	1.000	2533202.017	2533202.017	0.937	0.370
Residual	6.000	16215937.483	2702656.247		
Total	7.000	18749139.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	4453.159	3708.606	1.201	0.275	-4621.473	13527.791	-4621.473	13527.791
X Variable 1	1.027	1.061	0.968	0.370	-1.568	3.622	-1.568	3.622

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	8477.085	-232.085
2	7175.136	302.864
3	7447.231	-128.231
4	7431.829	66.171
5	8805.652	-835.652
6	7855.887	-700.887
7	8455.522	3380.478
8	8345.658	-1852.658







# Dissolved K

R-SMZ-GAC-PM

## SUMMARY OUTPUT

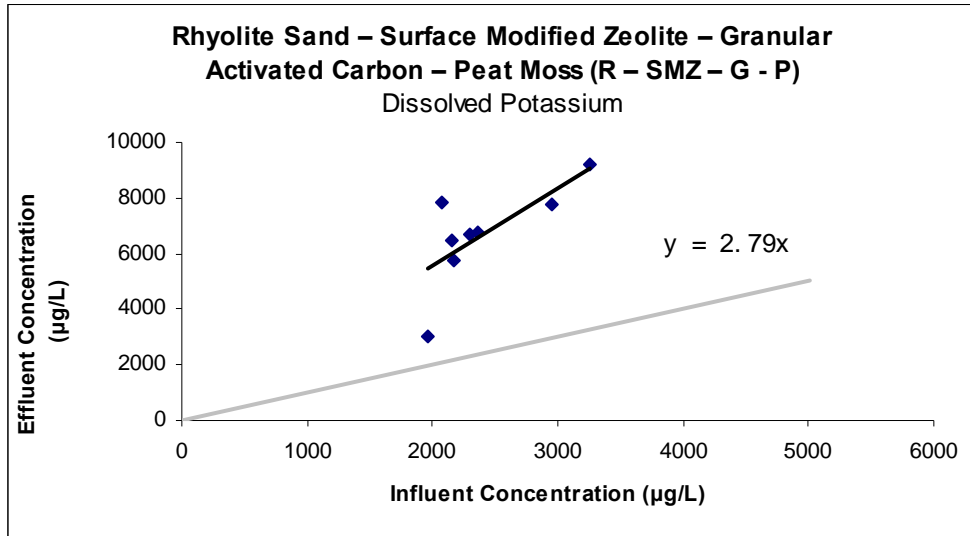
Regression Statistics	
Multiple R	0.986
R Square	0.972
Adjusted R Square	0.829
Standard Error	1244.343
Observations	8.000

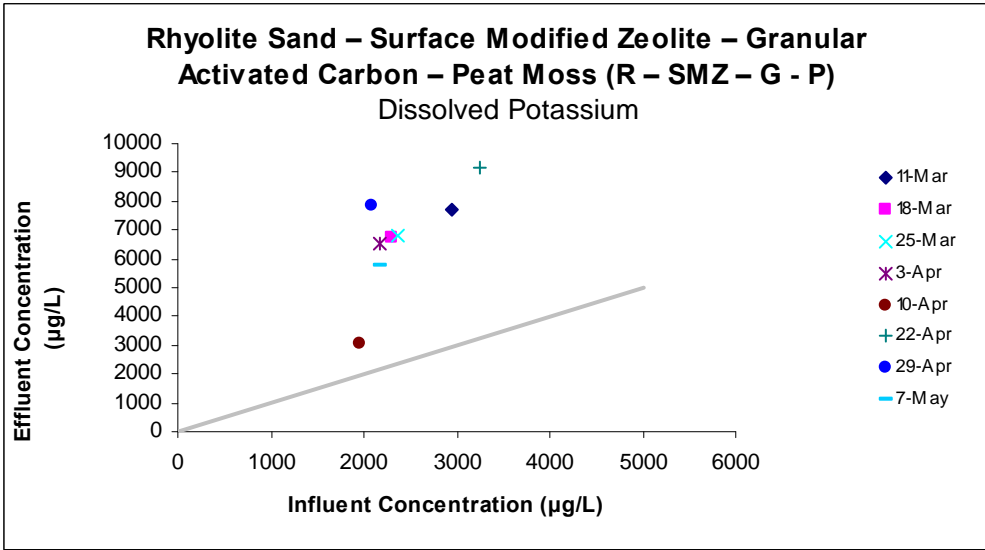
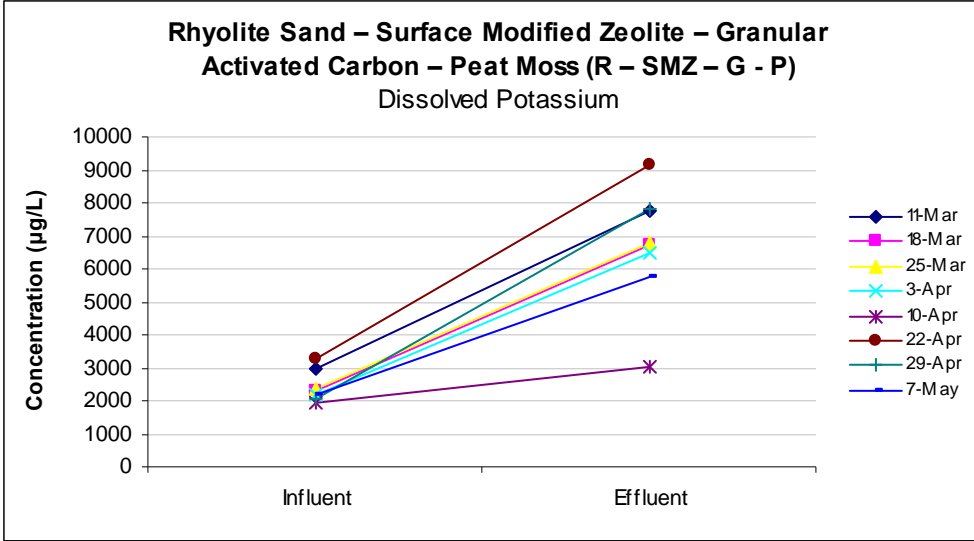
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	371024611.027	371024611.027	239.620	0.000
Residual	7.000	10838722.973	1548388.996		
Total	8.000	381863334.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	2.786	0.180	15.480	0.000	2.361	3.212	2.361	3.212

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	8235.742	-493.742
2	6419.198	296.802
3	6597.510	200.490
4	6023.571	482.429
5	5460.776	-2439.776
6	9066.003	112.997
7	5797.896	2048.104
8	6045.860	-271.860





# Total Na

R-SMZ-GAC-PM

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.049
R Square	0.002
Adjusted R Square	-0.164
Standard Error	4548.518
Observations	8.000

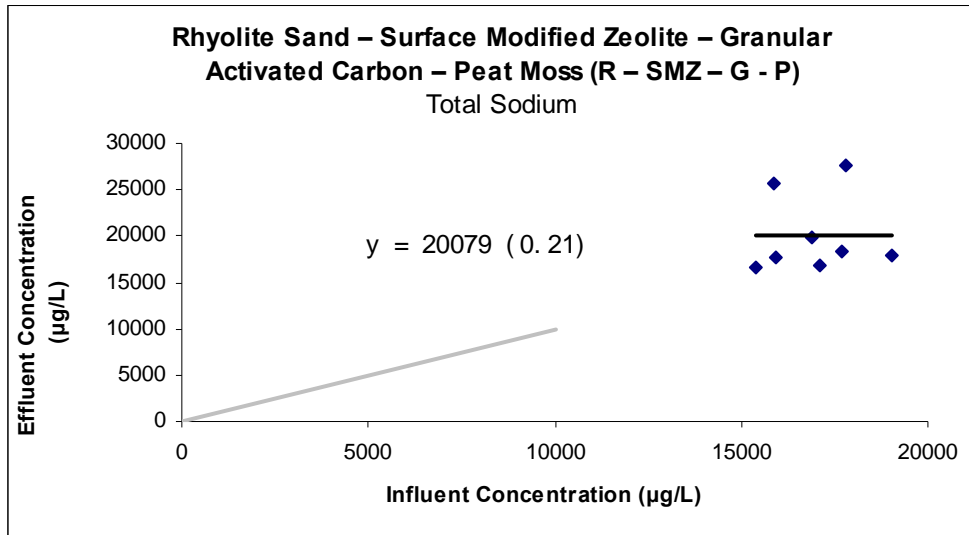
## ANOVA

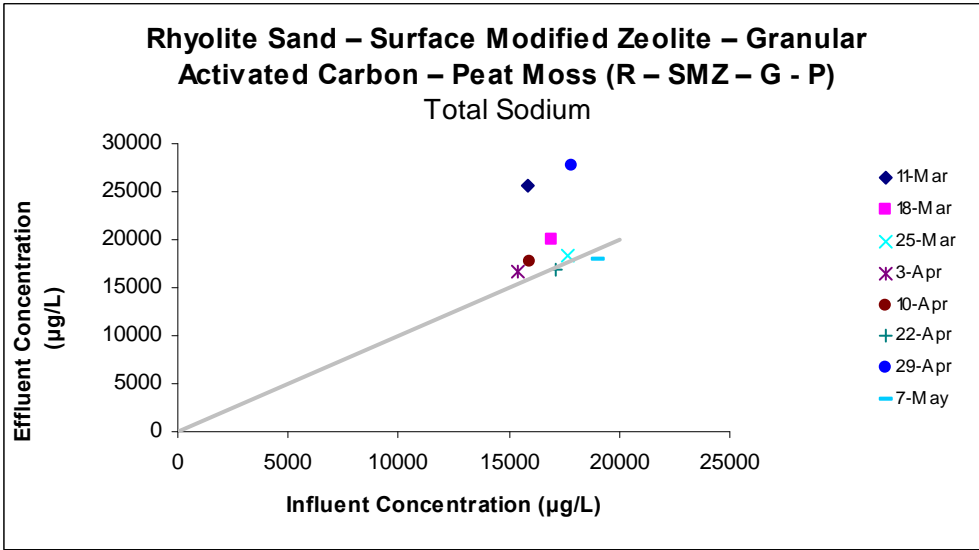
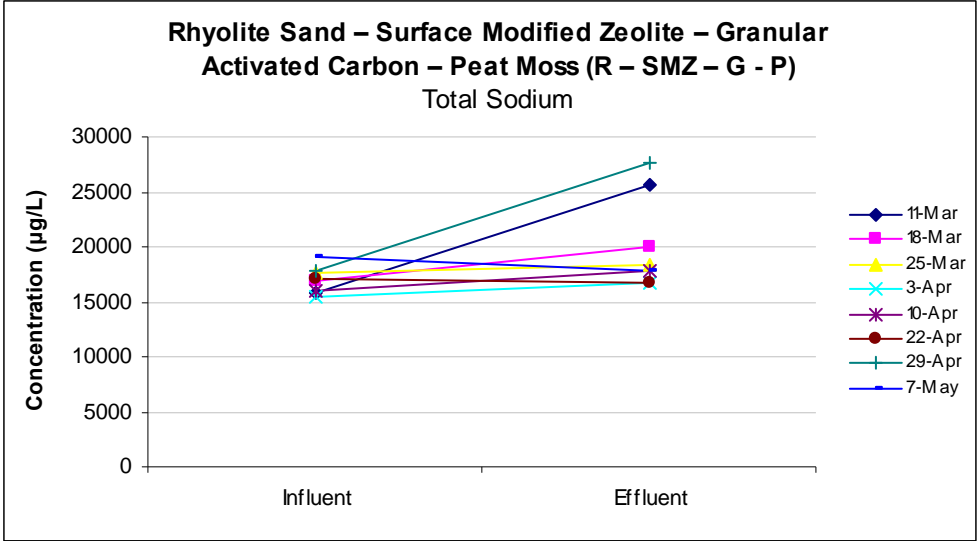
	df	SS	MS	F	Significance F
Regression	1.000	304681.758	304681.758	0.015	0.907
Residual	6.000	124134073.742	20689012.290		
Total	7.000	124438755.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	17173.642	23993.119	0.716	0.501	-41535.406	75882.689	-41535.406	75882.689
X Variable 1	0.171	1.411	0.121	0.907	-3.281	3.623	-3.281	3.623

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	19891.719	5823.281
2	20068.393	-141.393
3	20201.069	-1901.069
4	19804.066	-3135.066
5	19902.333	-2138.333
6	20103.830	-3322.830
7	20224.694	7385.306
8	20433.896	-2569.896





# Dissolved Na

R-SMZ-GAC-PM

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.317
R Square	0.100
Adjusted R Square	-0.049
Standard Error	3305.190
Observations	8.000

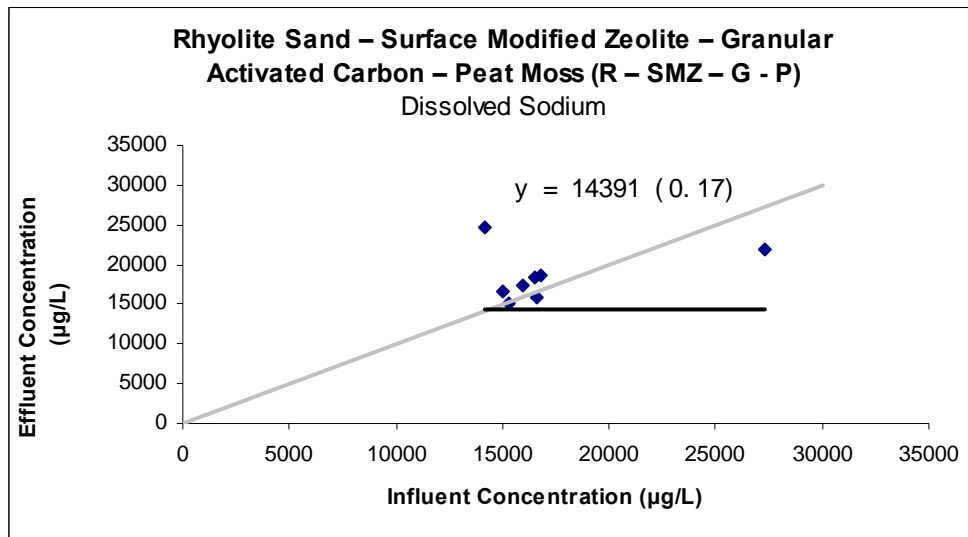
## ANOVA

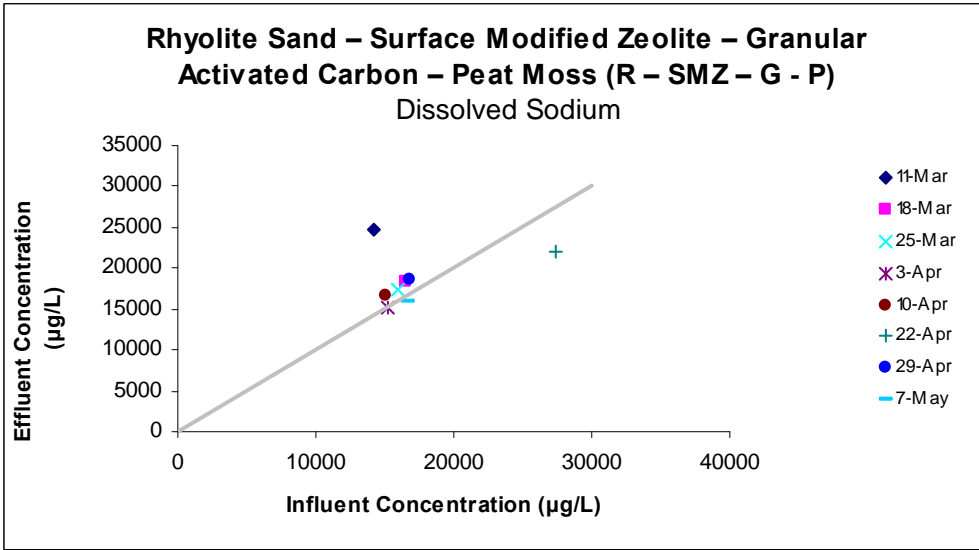
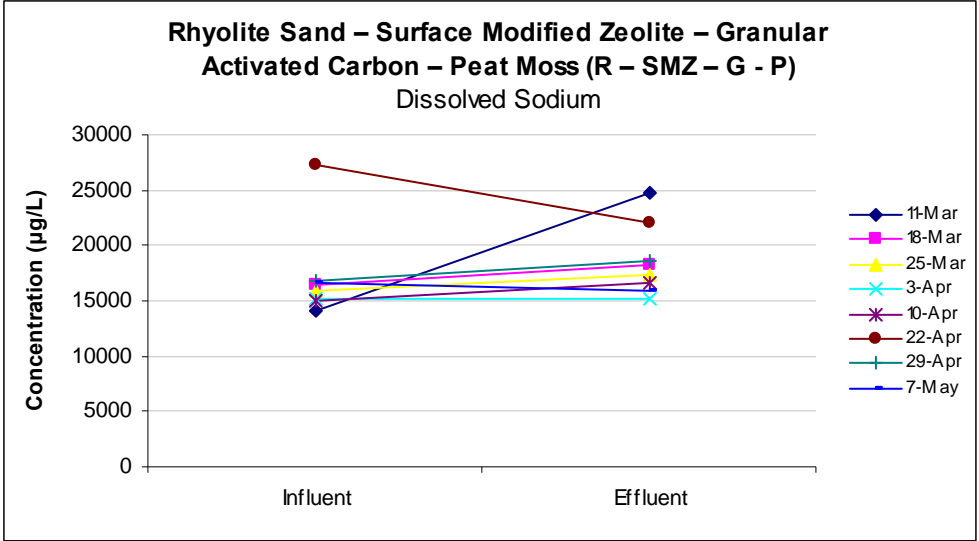
	df	SS	MS	F	Significance F
Regression	1.000	7321971.120	7321971.120	0.670	0.444
Residual	6.000	65545669.755	10924278.292		
Total	7.000	72867640.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	14390.678	5264.489	2.734	0.034	1508.938	27272.418	1508.938	27272.418
X Variable 1	0.244	0.298	0.819	0.444	-0.486	0.974	-0.486	0.974

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	17850.540	6865.460
2	18426.736	-122.736
3	18286.105	-862.105
4	18118.129	-2939.129
5	18053.674	-1421.674
6	21063.321	927.679
7	18499.249	28.751
8	18447.245	-2476.245





# Total Cr

R-SMZ-GAC-PM

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.522
R Square	0.272
Adjusted R Square	0.151
Standard Error	3.964
Observations	8.000

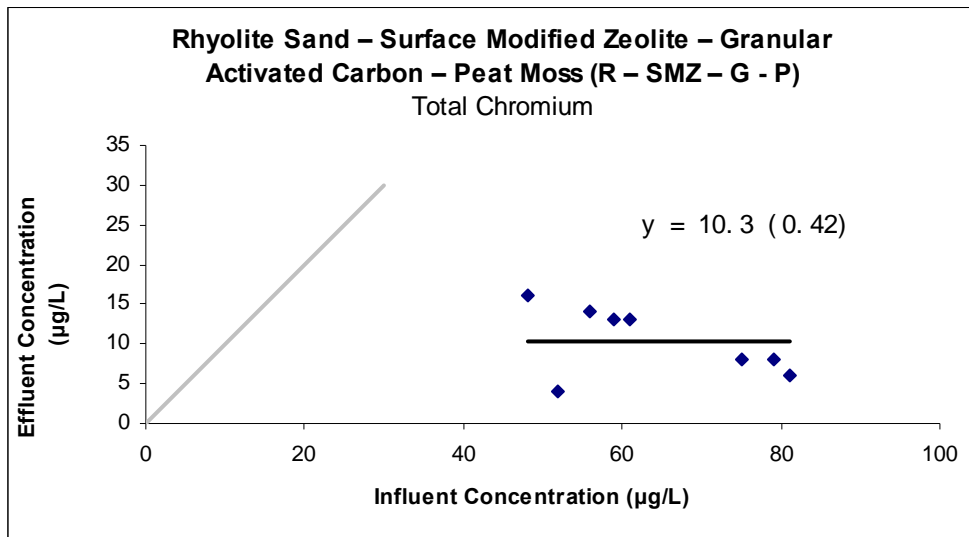
## ANOVA

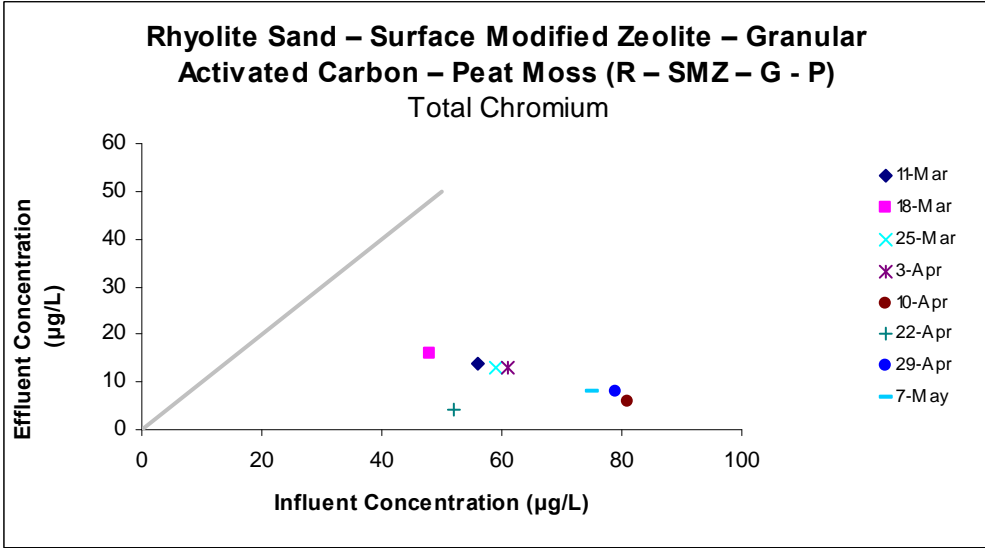
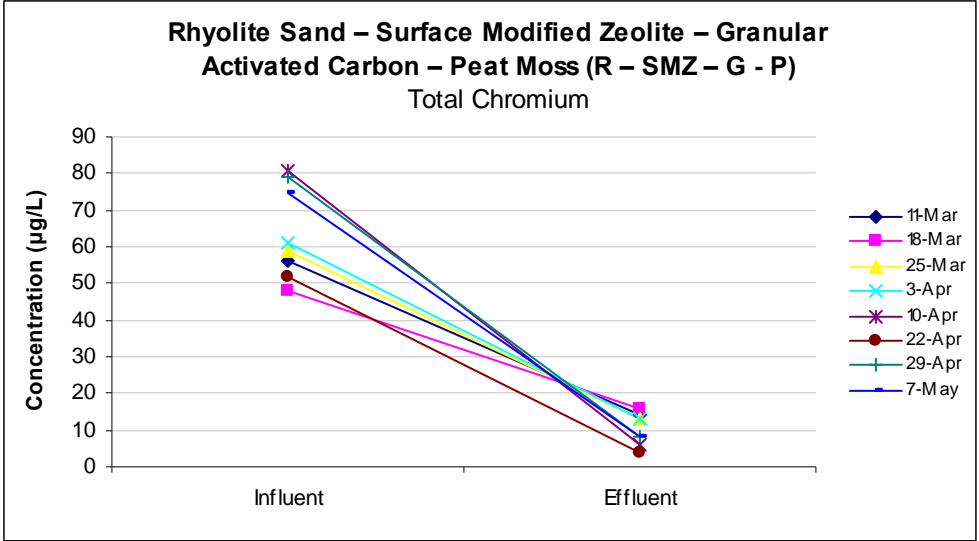
	df	SS	MS	F	Significance F
Regression	1.000	35.220	35.220	2.241	0.185
Residual	6.000	94.280	15.713		
Total	7.000	129.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	21.513	7.652	2.811	0.031	2.788	40.237	2.788	40.237
X Variable 1	-0.176	0.118	-1.497	0.185	-0.464	0.112	-0.464	0.112

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	11.639	2.361
2	13.049	2.951
3	11.110	1.890
4	10.757	2.243
5	7.230	-1.230
6	12.344	-8.344
7	7.583	0.417
8	8.288	-0.288







# Dissolved Cr

R-SMZ-GAC-PM

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.693
R Square	0.480
Adjusted R Square	0.306
Standard Error	3.300
Observations	5.000

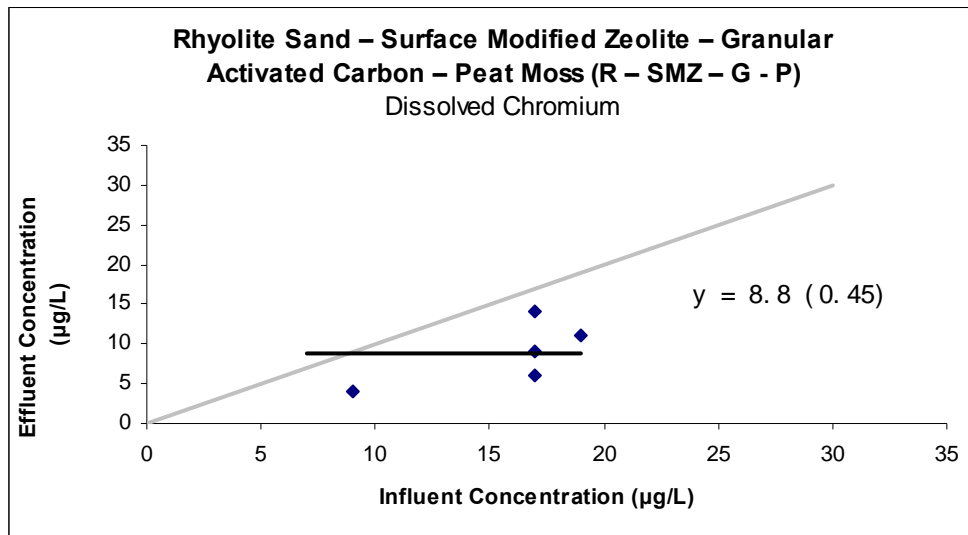
## ANOVA

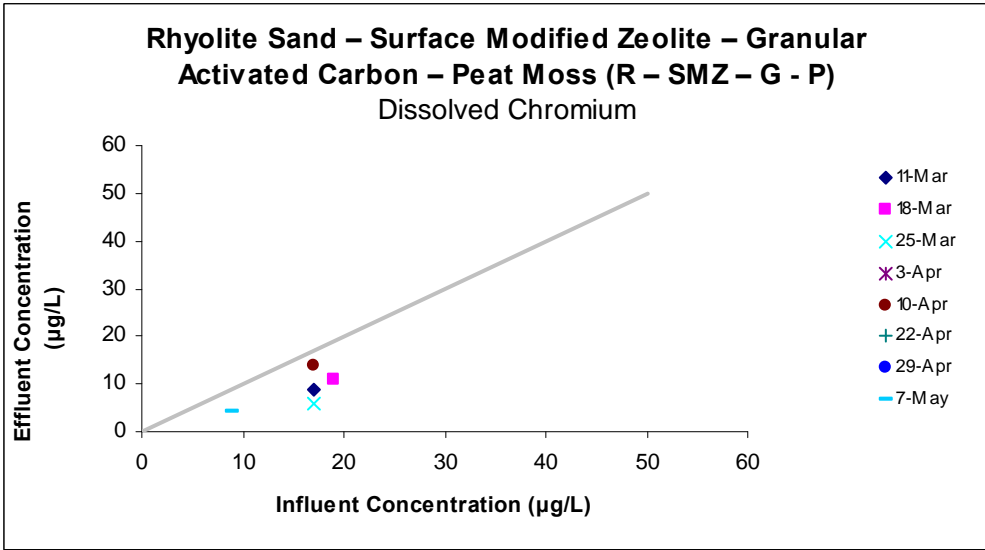
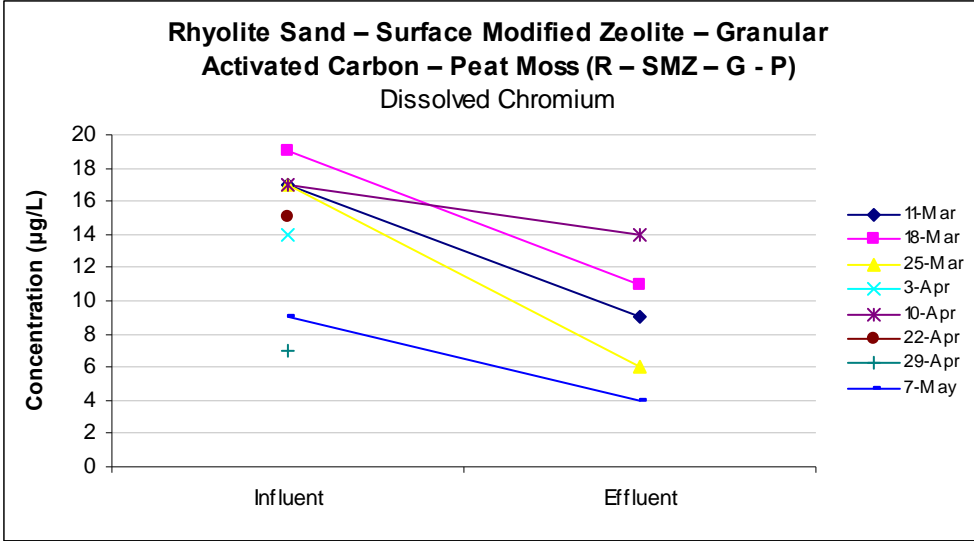
	df	SS	MS	F	Significance F
Regression	1.000	30.129	30.129	2.767	0.195
Residual	3.000	32.671	10.890		
Total	4.000	62.800			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-2.322	6.848	-0.339	0.757	-24.115	19.471	-24.115	19.471
X Variable 1	0.704	0.423	1.663	0.195	-0.643	2.051	-0.643	2.051

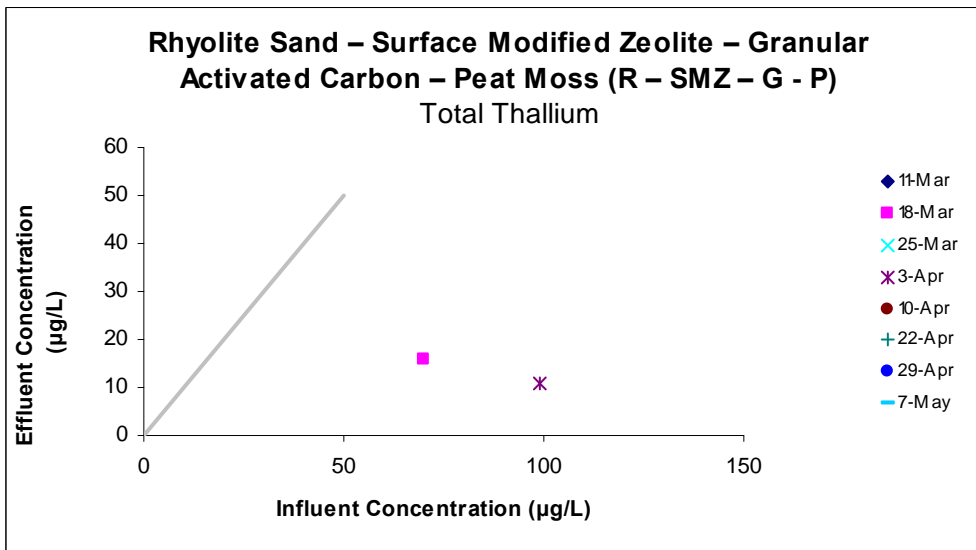
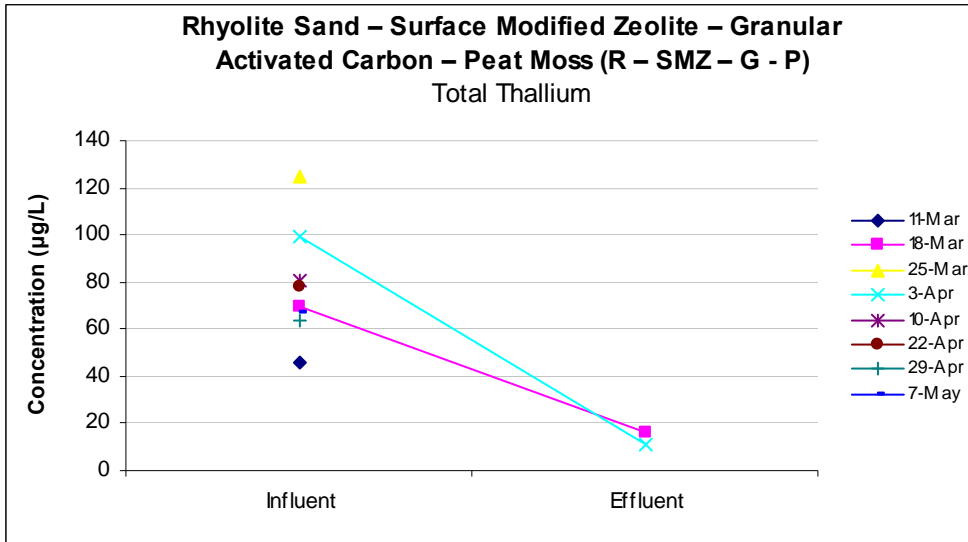
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	9.645	-0.645
2	11.053	-0.053
3	9.645	-3.645
4	9.645	4.355
5	4.013	-0.013

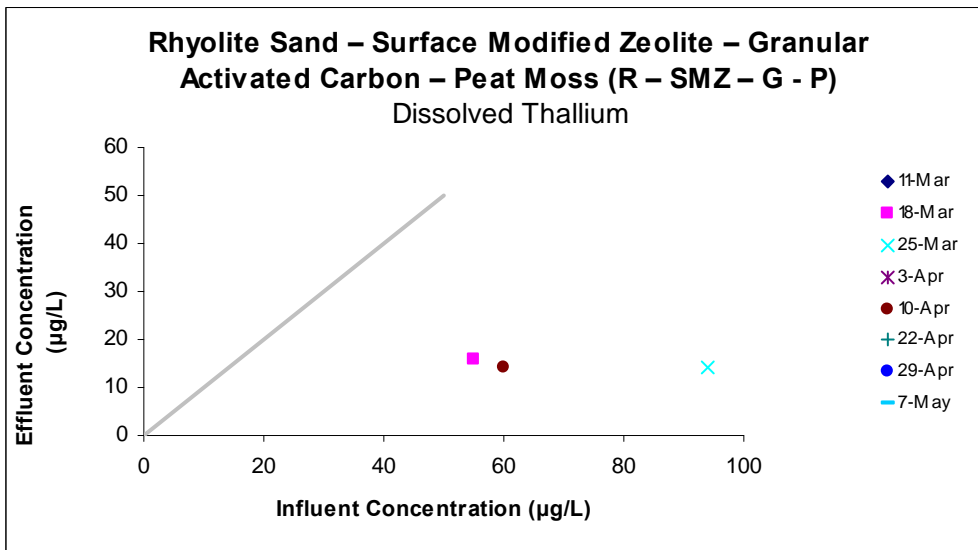
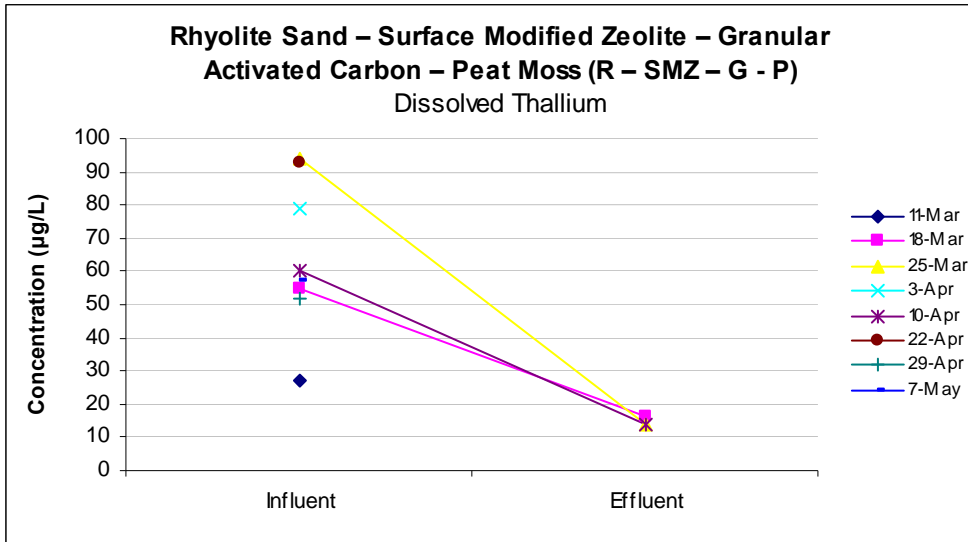




Total Tl



Dissolved Tl



# Total Sb

R-SMZ-GAC-PM

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.287
R Square	0.082
Adjusted R Square	-0.101
Standard Error	18.362
Observations	7.000

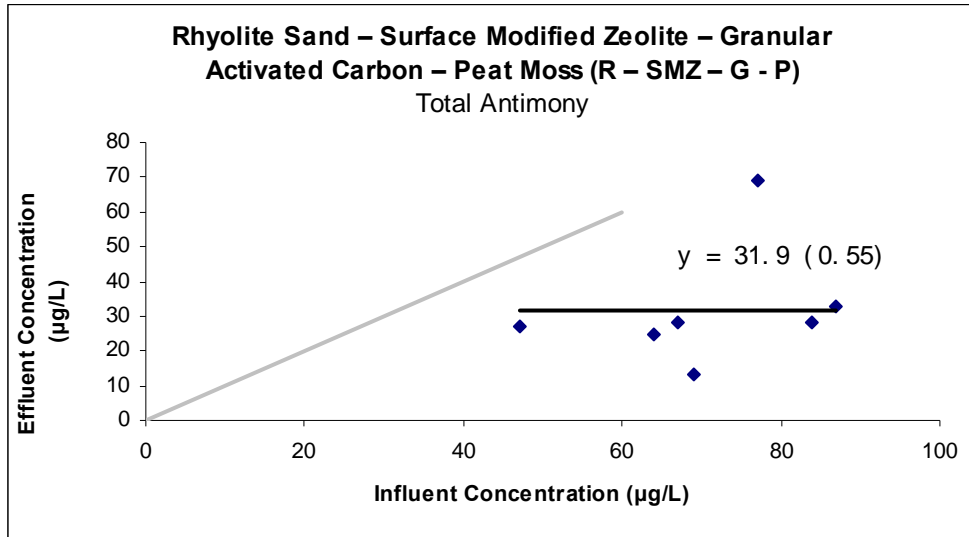
## ANOVA

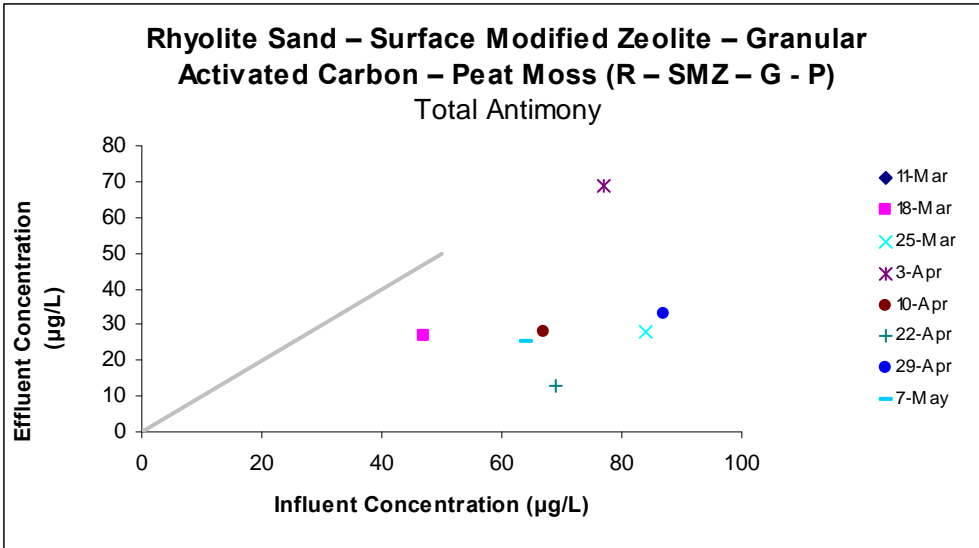
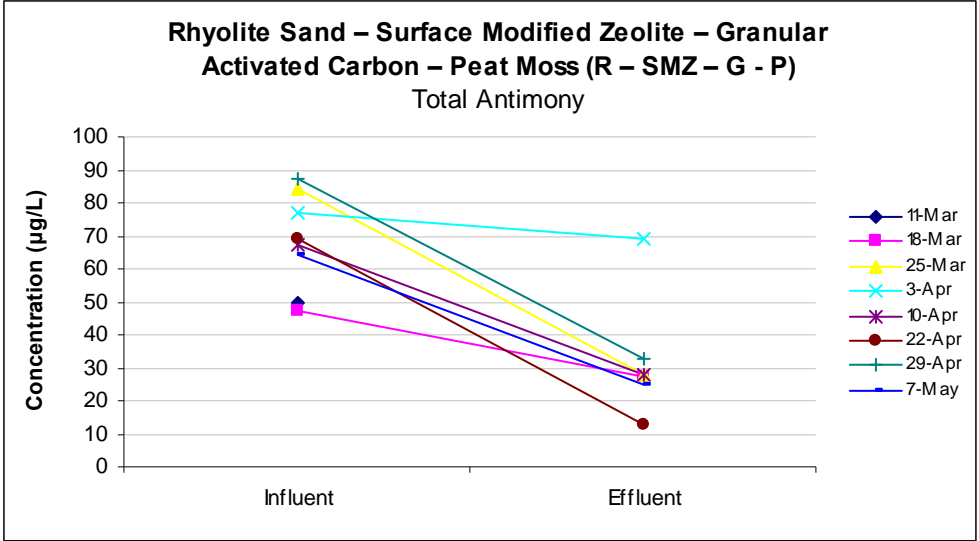
	df	SS	MS	F	Significance F
Regression	1.000	151.115	151.115	0.448	0.533
Residual	5.000	1685.742	337.148		
Total	6.000	1836.857			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	5.712	39.665	0.144	0.891	-96.250	107.673	-96.250	107.673
X Variable 1	0.370	0.552	0.669	0.533	-1.050	1.789	-1.050	1.789

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	23.089	3.911
2	36.769	-8.769
3	34.181	34.819
4	30.484	-2.484
5	31.223	-18.223
6	37.879	-4.879
7	29.375	-4.375





# Dissolved Sb

R-SMZ-GAC-PM

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.074
R Square	0.005
Adjusted R Square	-0.194
Standard Error	13.689
Observations	7.000

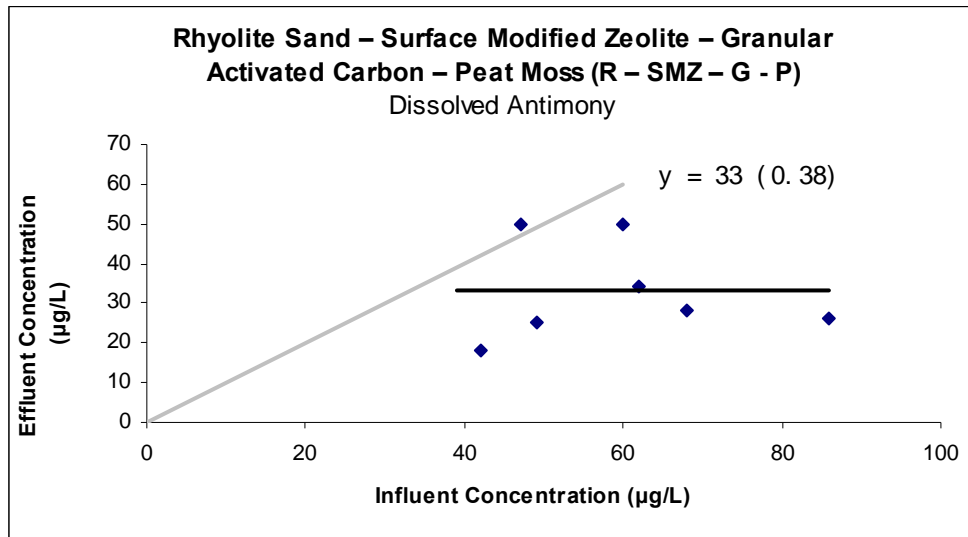
## ANOVA

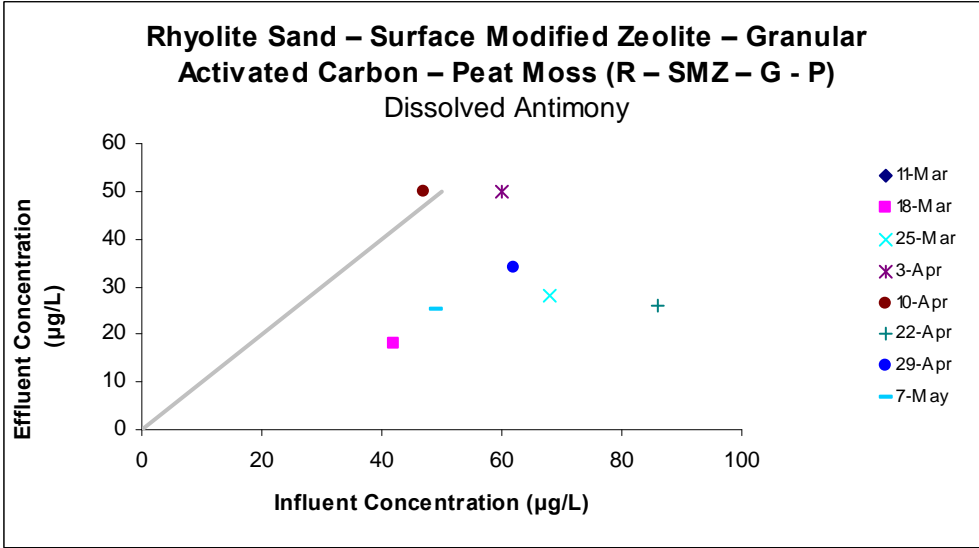
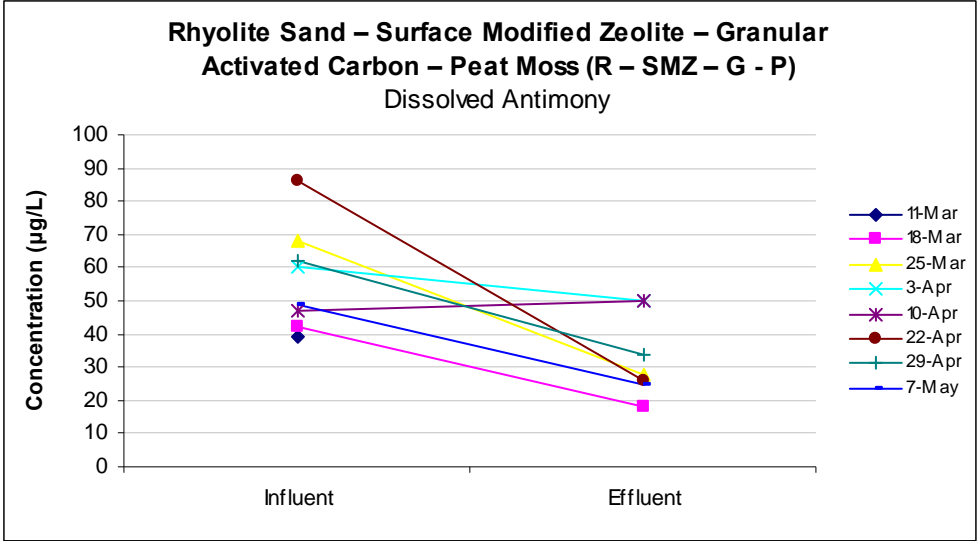
	df	SS	MS	F	Significance F
Regression	1.000	5.092	5.092	0.027	0.876
Residual	5.000	936.908	187.382		
Total	6.000	942.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	36.629	22.611	1.620	0.166	-21.495	94.752	-21.495	94.752
X Variable 1	-0.061	0.372	-0.165	0.876	-1.018	0.895	-1.018	0.895

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	34.052	-16.052
2	32.457	-4.457
3	32.947	17.053
4	33.745	16.255
5	31.352	-5.352
6	32.825	1.175
7	33.622	-8.622







## Layered SZG

### Total As

MWH Sand-GAC-MWH Zeolite Layered

#### SUMMARY OUTPUT

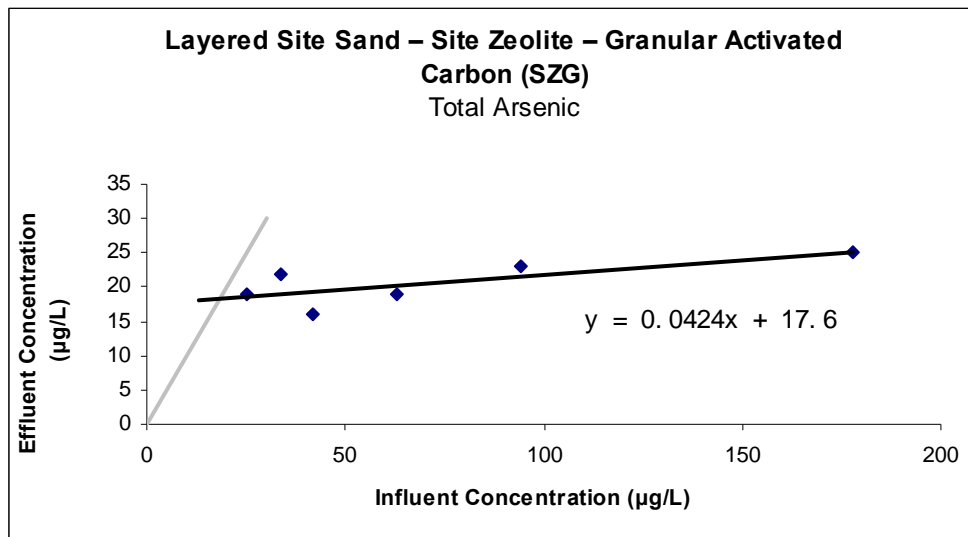
Regression Statistics	
Multiple R	0.742
R Square	0.551
Adjusted R Square	0.439
Standard Error	2.446
Observations	6.000

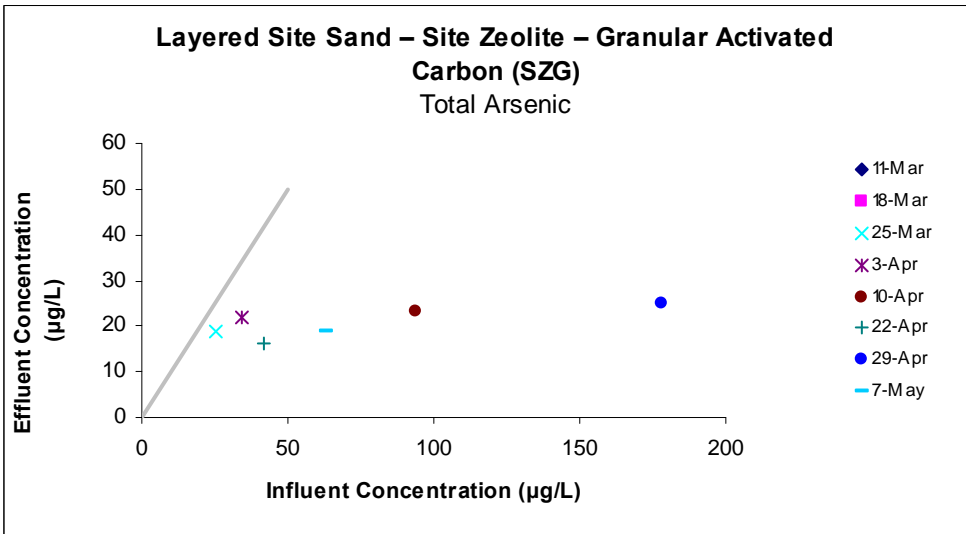
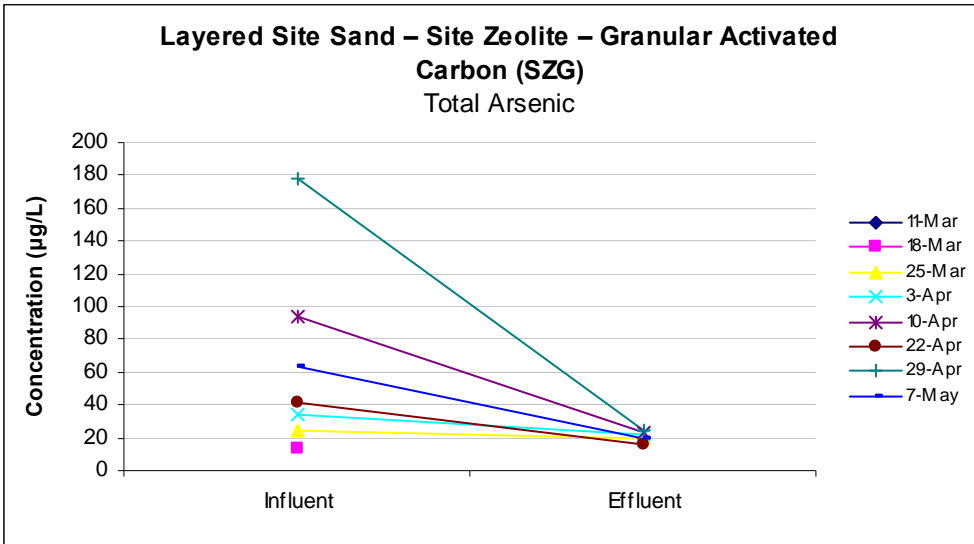
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	29.399	29.399	4.913	0.091
Residual	4.000	23.934	5.984		
Total	5.000	53.333			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	17.585	1.712	10.274	0.001	12.833	22.338	12.833	22.338
X Variable 1	0.042	0.019	2.217	0.091	-0.011	0.096	-0.011	0.096

#### RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	18.645	0.355
2	19.027	2.973
3	21.571	1.429
4	19.366	-3.366
5	25.133	-0.133
6	20.257	-1.257





# Dissolved As

MWH Sand-GAC-MWH Zeolite Layered

## SUMMARY OUTPUT

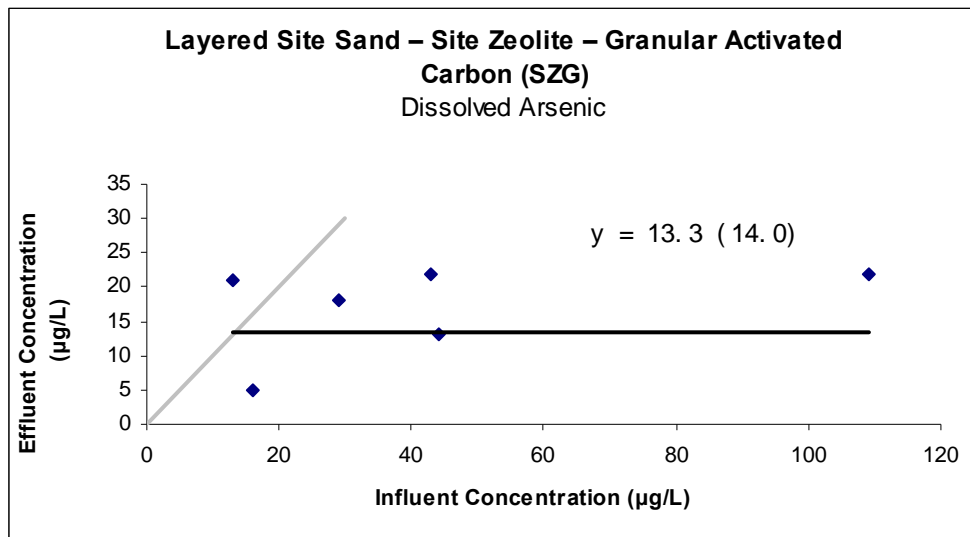
Regression Statistics	
Multiple R	0.435
R Square	0.189
Adjusted R Square	-0.013
Standard Error	6.780
Observations	6.000

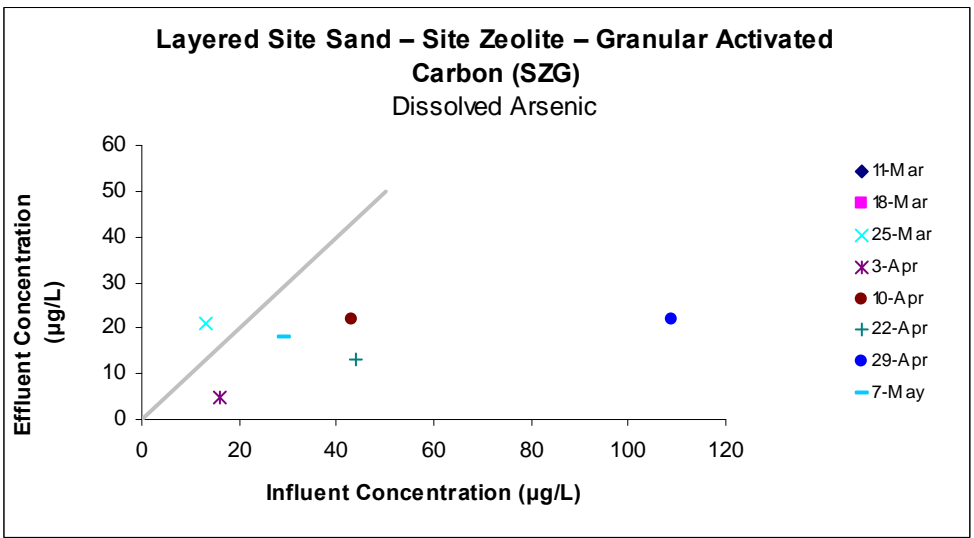
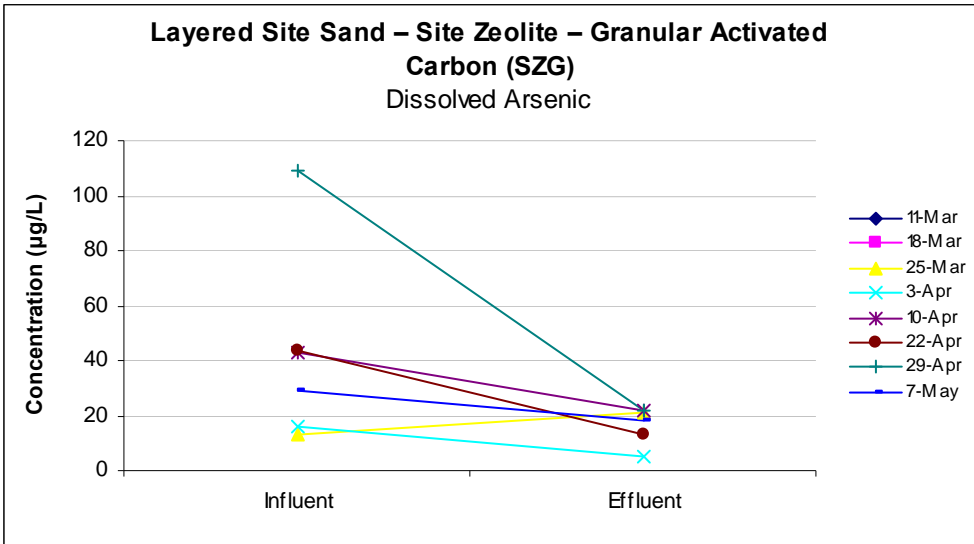
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	42.977	42.977	0.935	0.388
Residual	4.000	183.856	45.964		
Total	5.000	226.833			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	13.303	4.582	2.904	0.044	0.582	26.023	0.582	26.023
X Variable 1	0.083	0.086	0.967	0.388	-0.156	0.323	-0.156	0.323

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	14.387	6.613
2	14.637	-9.637
3	16.889	5.111
4	16.972	-3.972
5	22.393	-0.393
6	15.721	2.279





# Total Al

MWH Sand-GAC-MWH Zeolite Layered

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.187
R Square	0.035
Adjusted R Square	-0.126
Standard Error	130.986
Observations	8.000

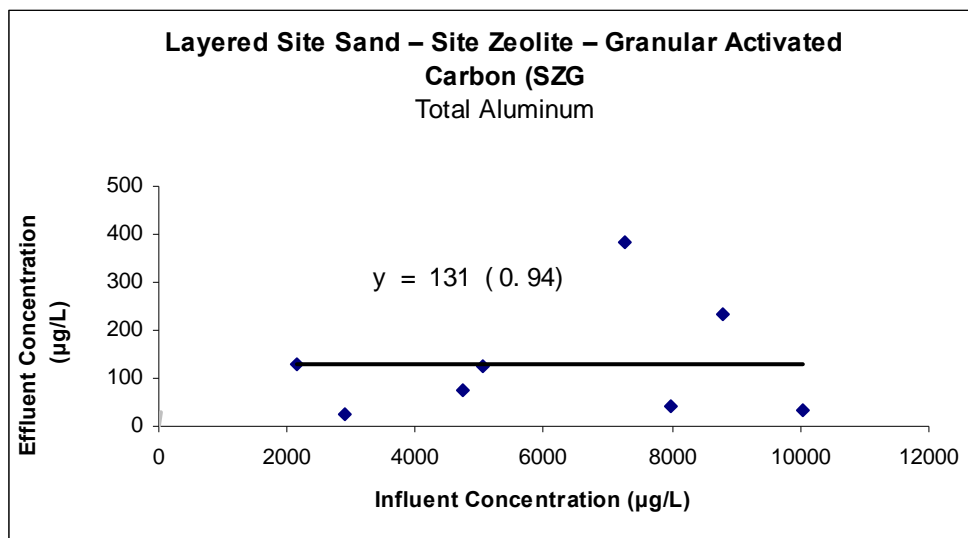
## ANOVA

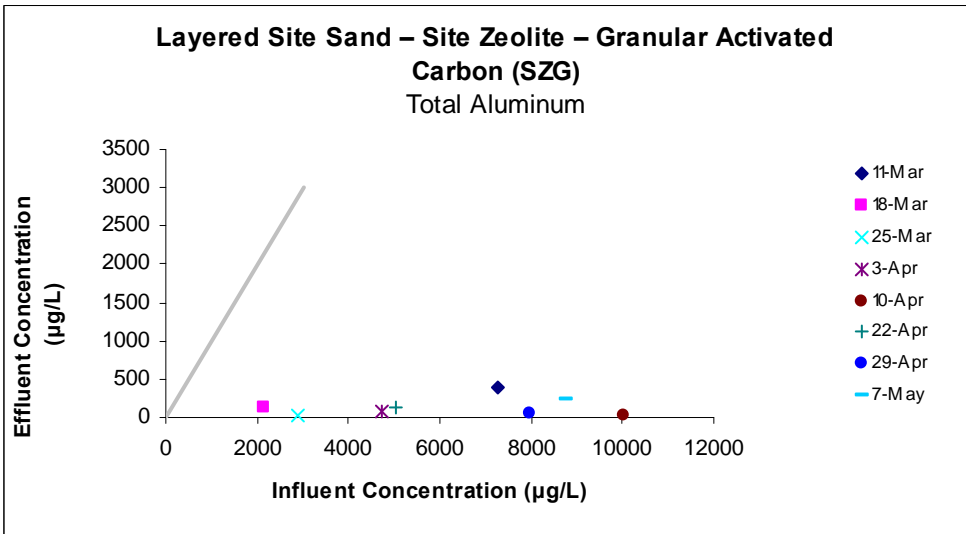
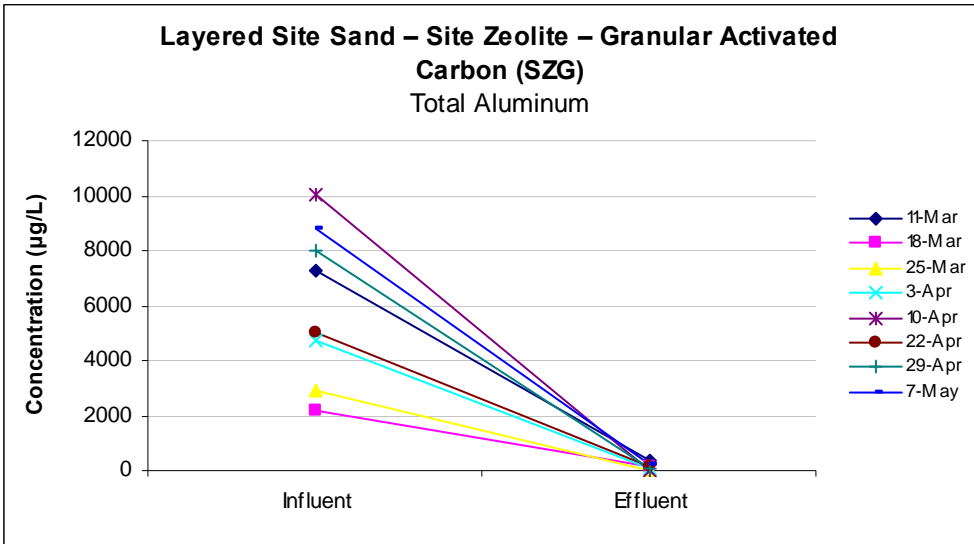
	df	SS	MS	F	Significance F
Regression	1.000	3713.611	3713.611	0.216	0.658
Residual	6.000	102943.889	17157.315		
Total	7.000	106657.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	81.603	116.328	0.701	0.509	-203.041	366.248	-203.041	366.248
X Variable 1	0.008	0.017	0.465	0.658	-0.035	0.051	-0.035	0.051

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	140.676	244.324
2	99.102	28.898
3	105.224	-78.224
4	120.019	-45.019
5	163.104	-128.104
6	122.577	1.423
7	146.417	-105.417
8	152.881	82.119





# Dissolved Al

MWH Sand-GAC-MWH Zeolite Layered

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.895
R Square	0.801
Adjusted R Square	0.761
Standard Error	16.297
Observations	7.000

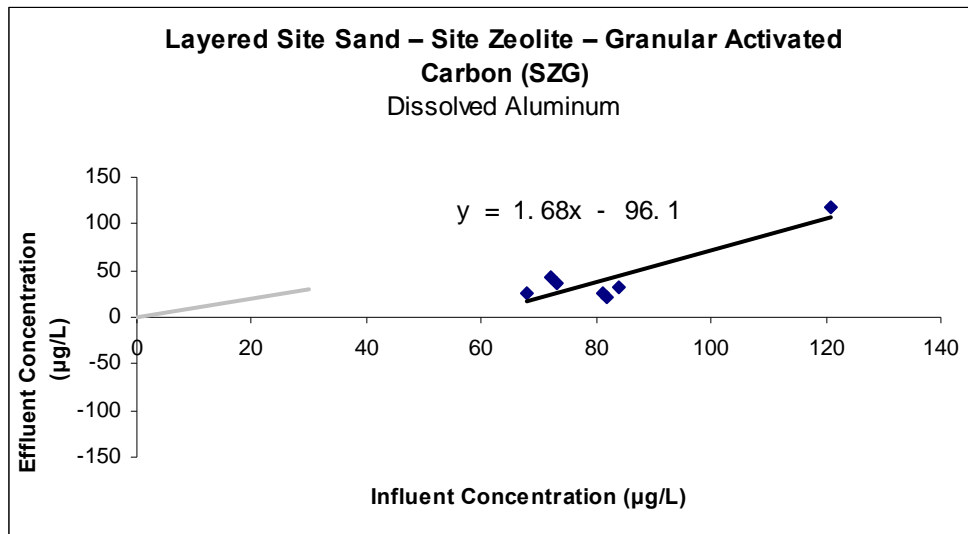
## ANOVA

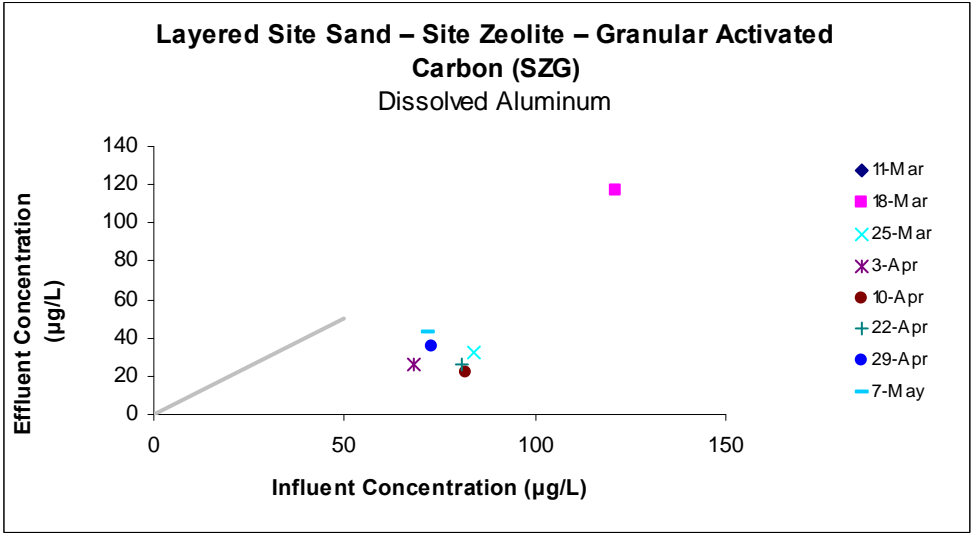
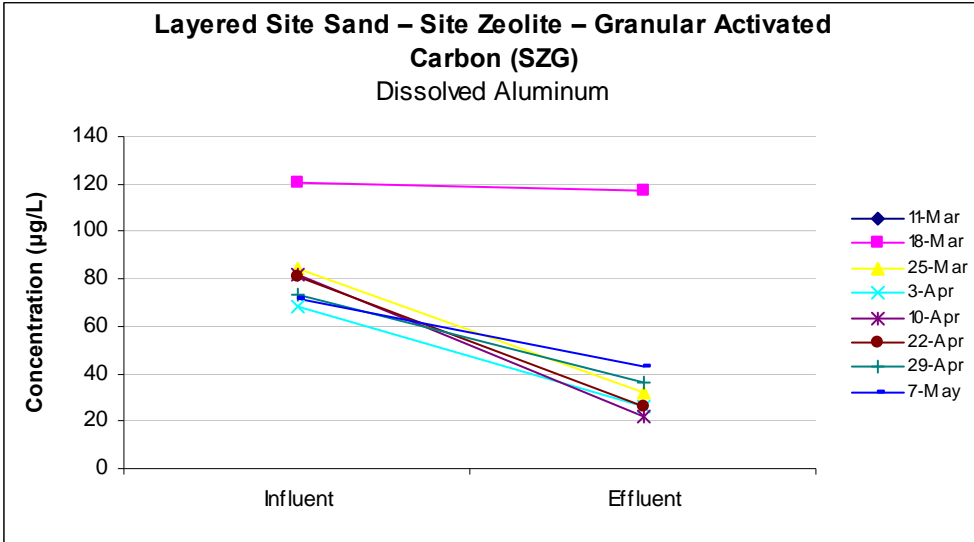
	df	SS	MS	F	Significance F
Regression	1.000	5336.899	5336.899	20.094	0.007
Residual	5.000	1327.958	265.592		
Total	6.000	6664.857			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-96.110	31.669	-3.035	0.029	-177.519	-14.701	-177.519	-14.701
X Variable 1	1.678	0.374	4.483	0.007	0.716	2.640	0.716	2.640

## RESIDUAL OUTPUT

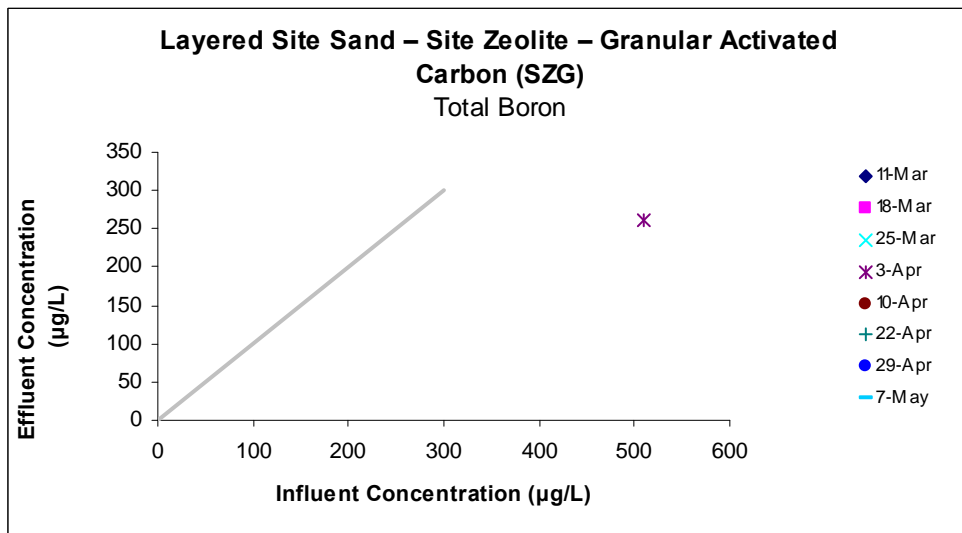
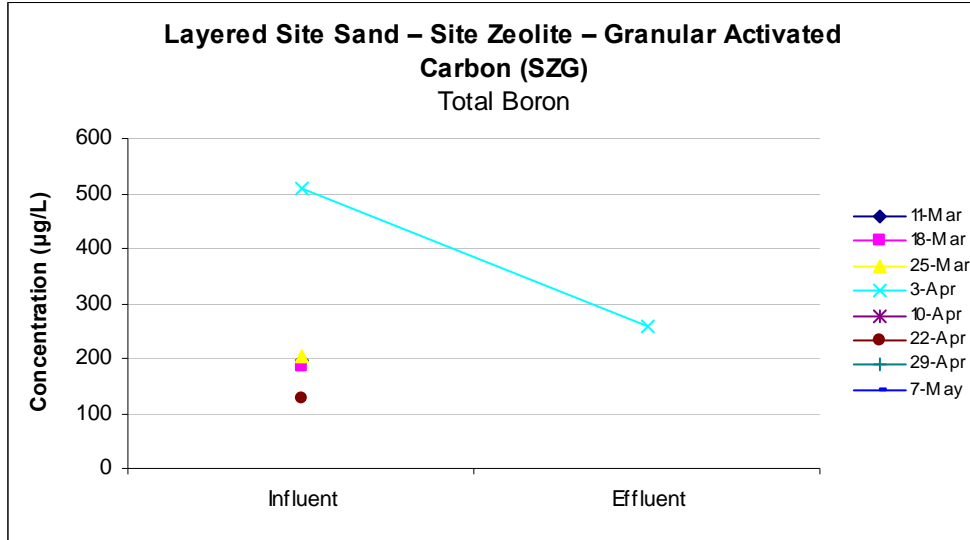
Observation	Predicted Y	Residuals
1	106.897	10.103
2	44.821	-12.821
3	17.977	8.023
4	41.465	-19.465
5	39.787	-13.787
6	26.365	9.635
7	24.688	18.312



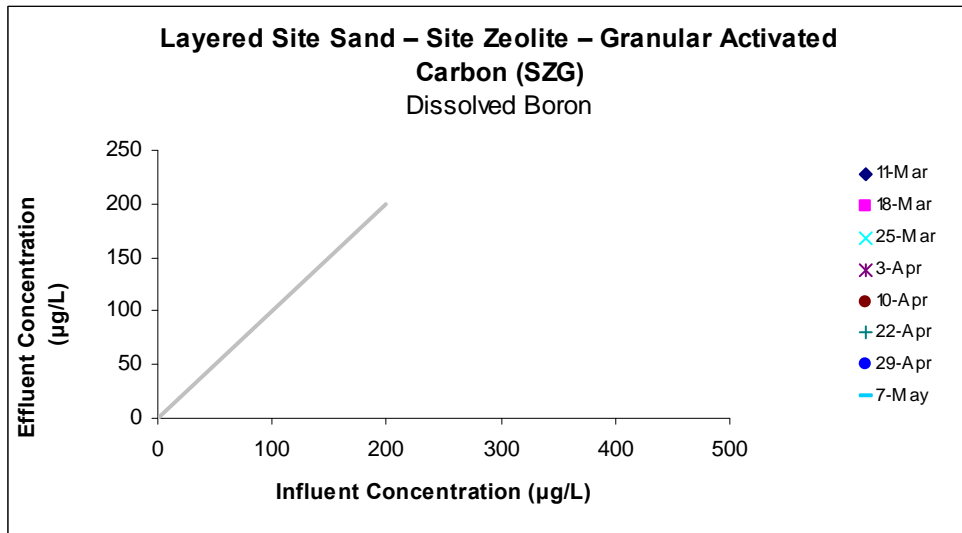
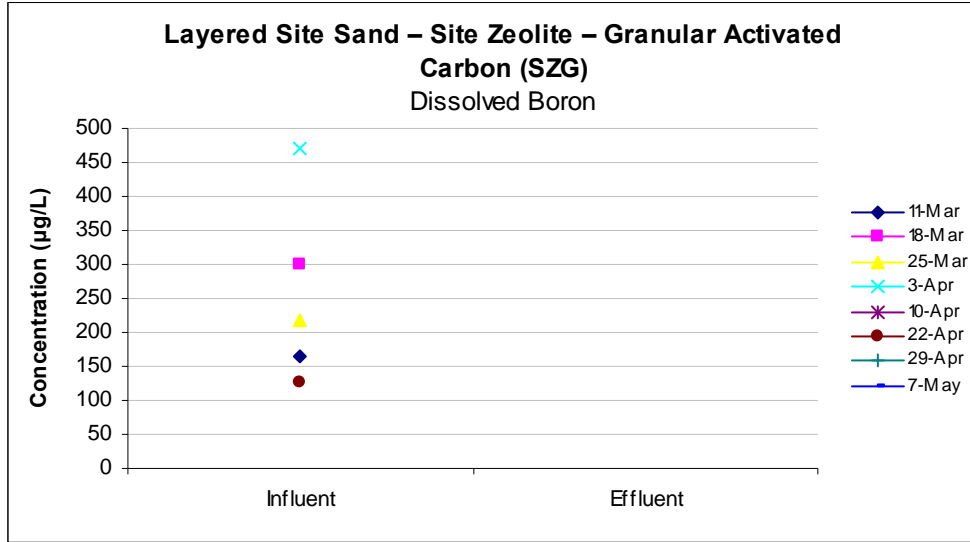




Total B



Dissolved B



# Total Ca

MWH Sand-GAC-MWH Zeolite Layered

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.128
R Square	0.016
Adjusted R Square	-0.148
Standard Error	14363.216
Observations	8.000

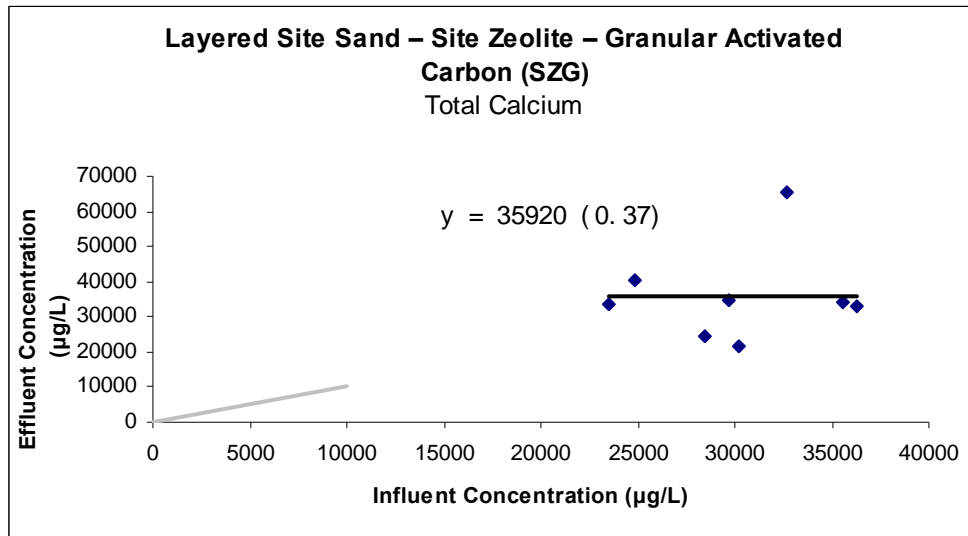
## ANOVA

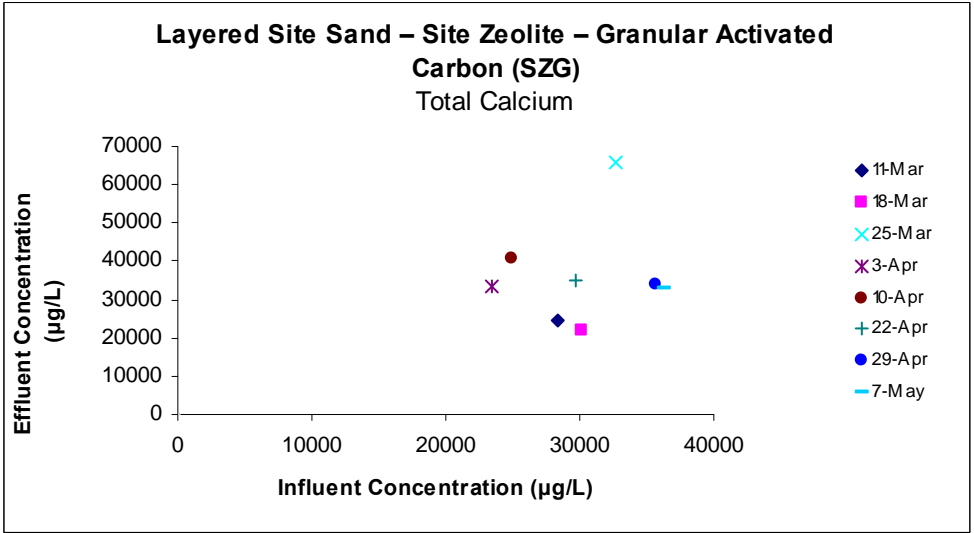
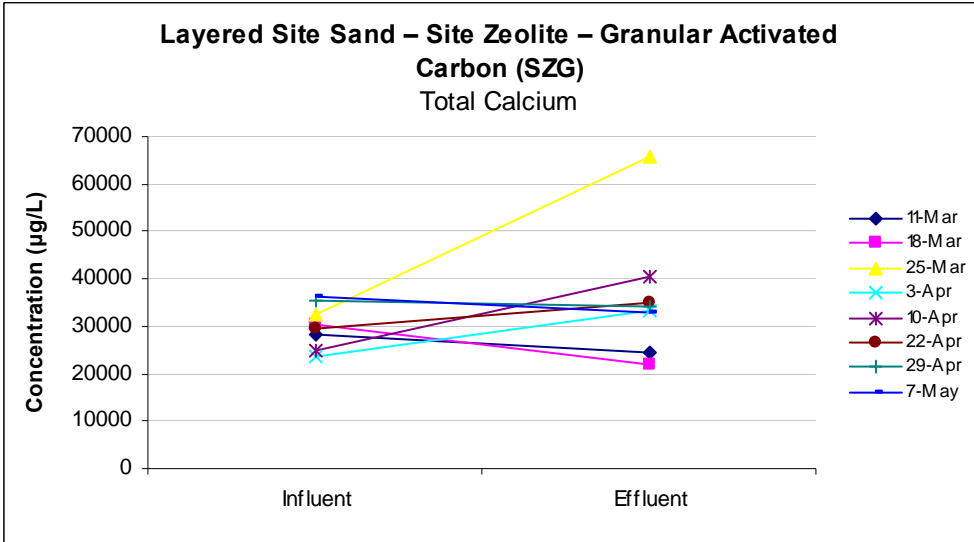
	df	SS	MS	F	Significance F
Regression	1.000	20590376.664	20590376.664	0.100	0.763
Residual	6.000	1237811895.211	206301982.535		
Total	7.000	1258402271.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	24712.036	35837.376	0.690	0.516	-62978.863	112402.935	-62978.863	112402.935
X Variable 1	0.372	1.177	0.316	0.763	-2.508	3.252	-2.508	3.252

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	35279.405	-10934.405
2	35944.583	-14182.583
3	36847.351	28753.649
4	33442.636	-15.636
5	33957.601	6637.399
6	35740.085	-830.085
7	37948.669	-3958.669
8	38196.670	-5469.670





# Dissolved Ca

MWH Sand-GAC-MWH Zeolite Layered

## SUMMARY OUTPUT

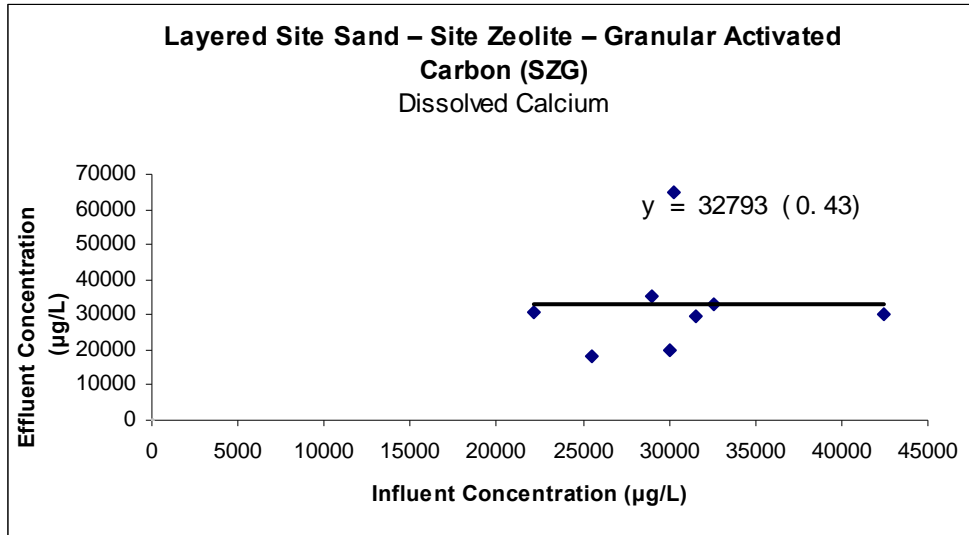
Regression Statistics	
Multiple R	0.089
R Square	0.008
Adjusted R Square	-0.157
Standard Error	15311.707
Observations	8.000

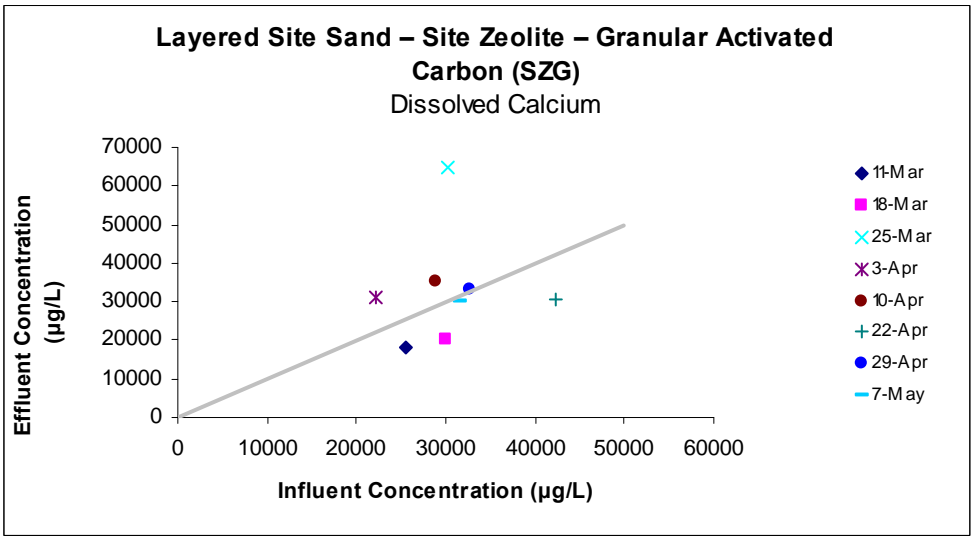
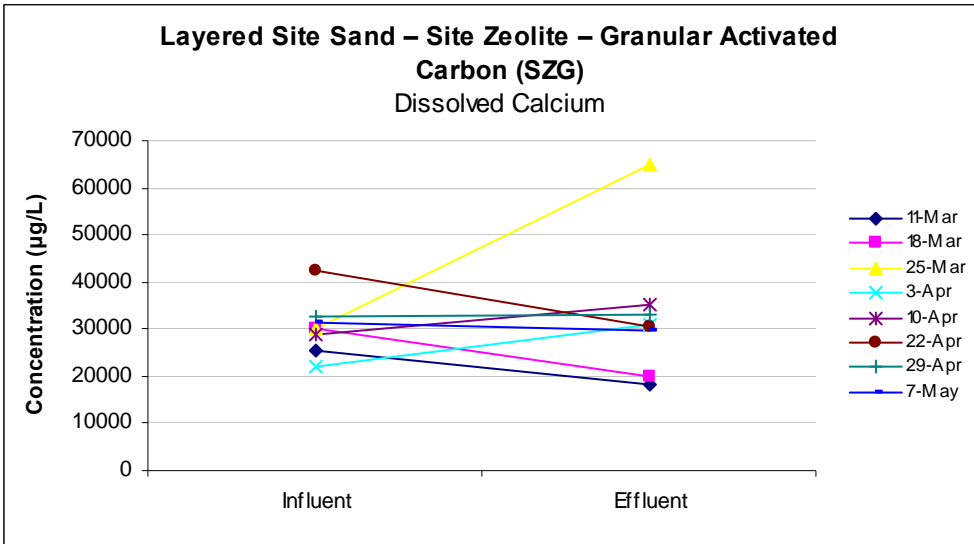
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	11335962.496	11335962.496	0.048	0.833
Residual	6.000	1406690177.379	234448362.897		
Total	7.000	1418026139.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	26244.952	30265.124	0.867	0.419	-47811.138	100301.041	-47811.138	100301.041
X Variable 1	0.215	0.979	0.220	0.833	-2.179	2.610	-2.179	2.610

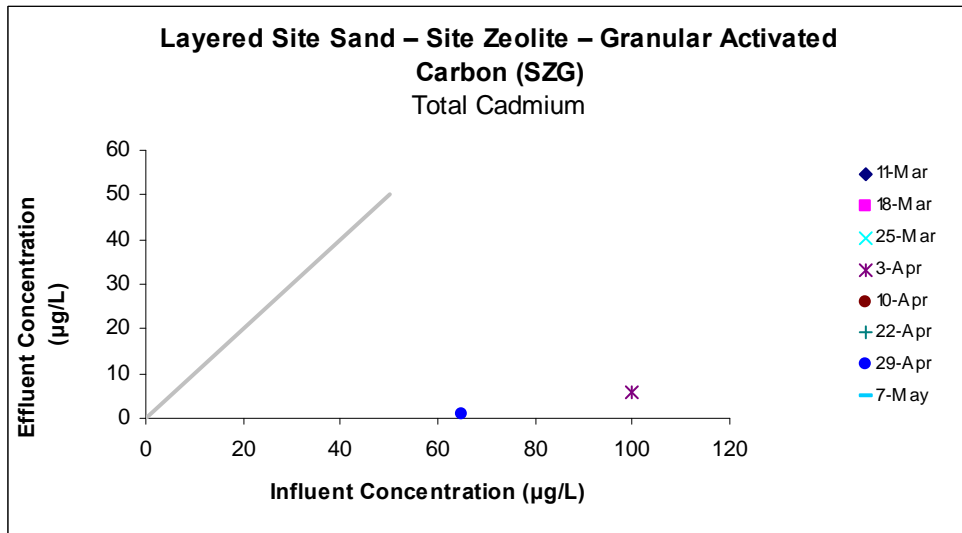
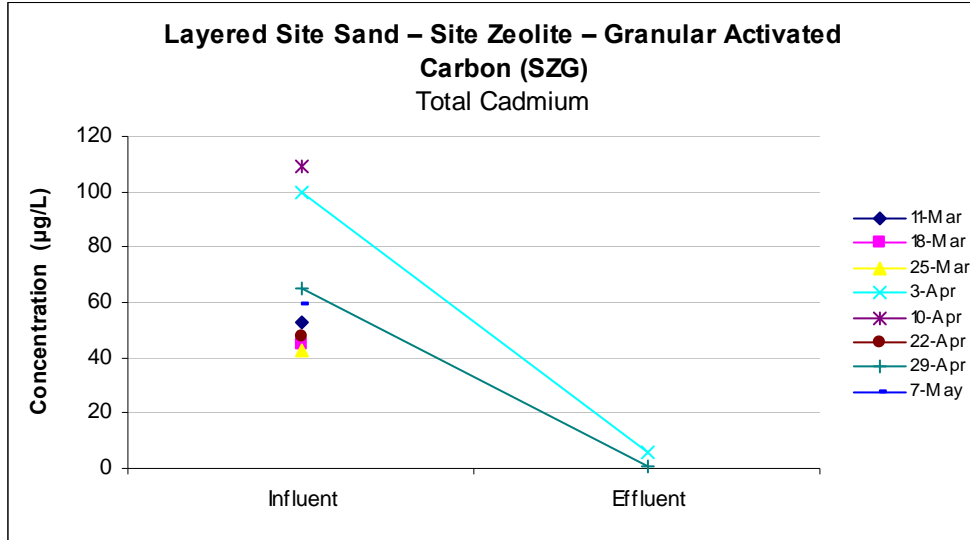
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	31732.382	-13569.382
2	32696.841	-12598.841
3	32757.523	31951.477
4	31010.652	-99.652
5	32478.643	2781.357
6	35370.944	-5000.944
7	33266.435	-286.435
8	33027.580	-3177.580

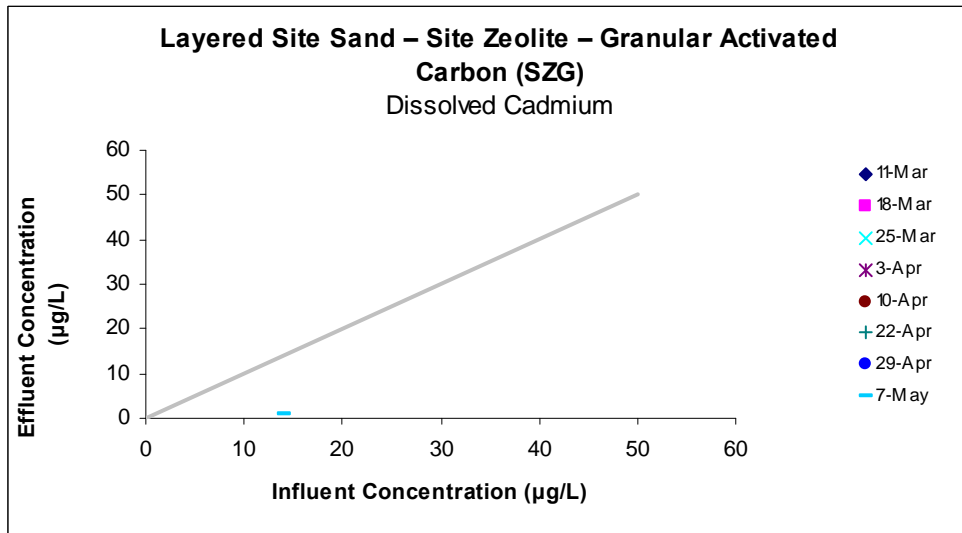
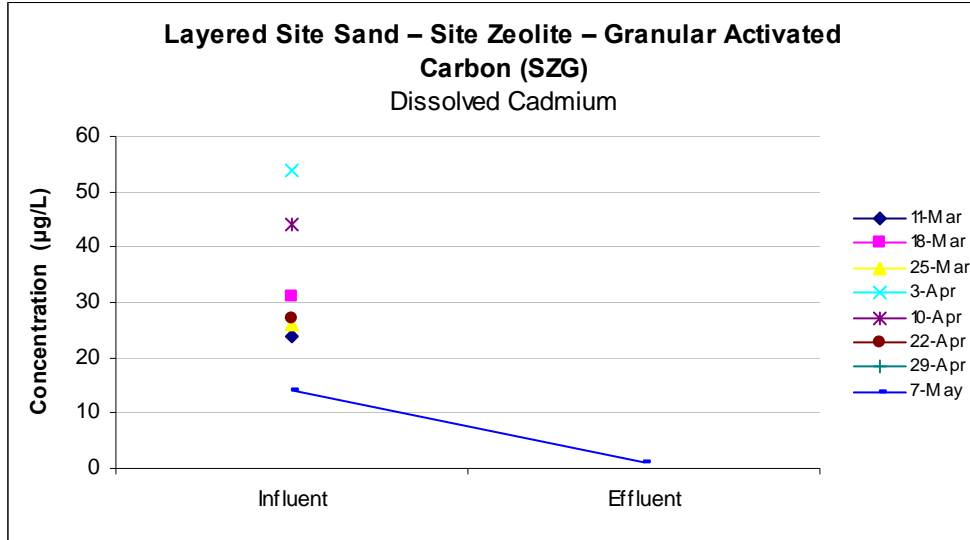




Total Cd



Dissolved Cd





# Total Cu

MWH Sand-GAC-MWH Zeolite Layered

## SUMMARY OUTPUT

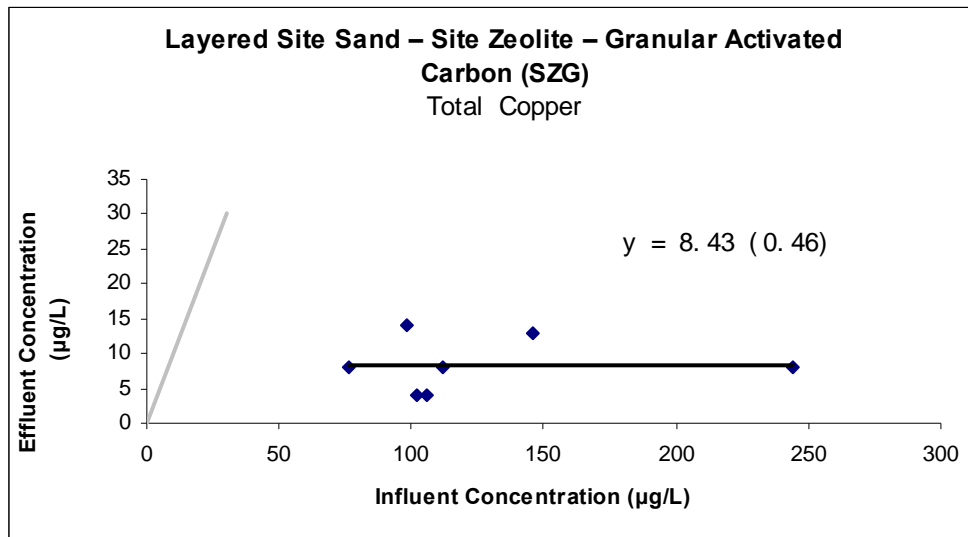
Regression Statistics	
Multiple R	0.082
R Square	0.007
Adjusted R Square	-0.192
Standard Error	4.269
Observations	7.000

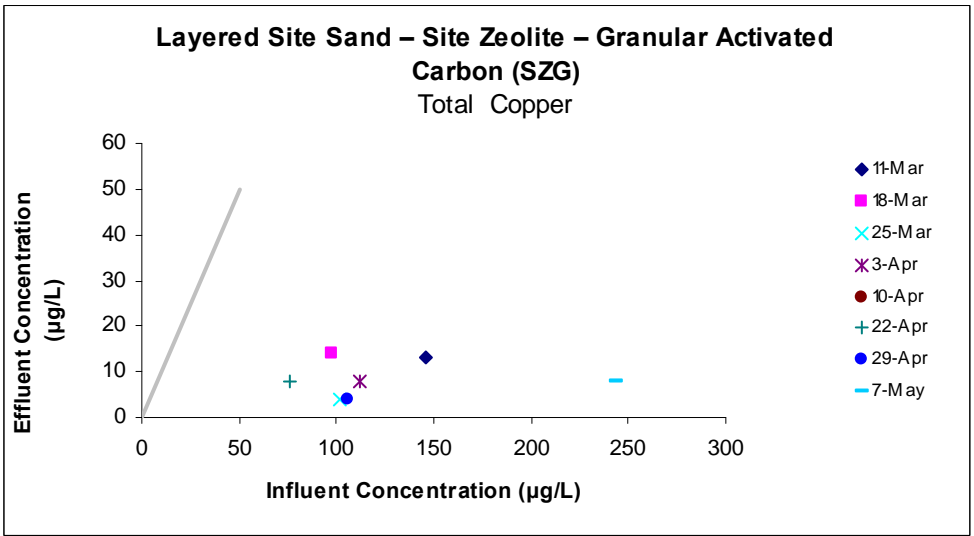
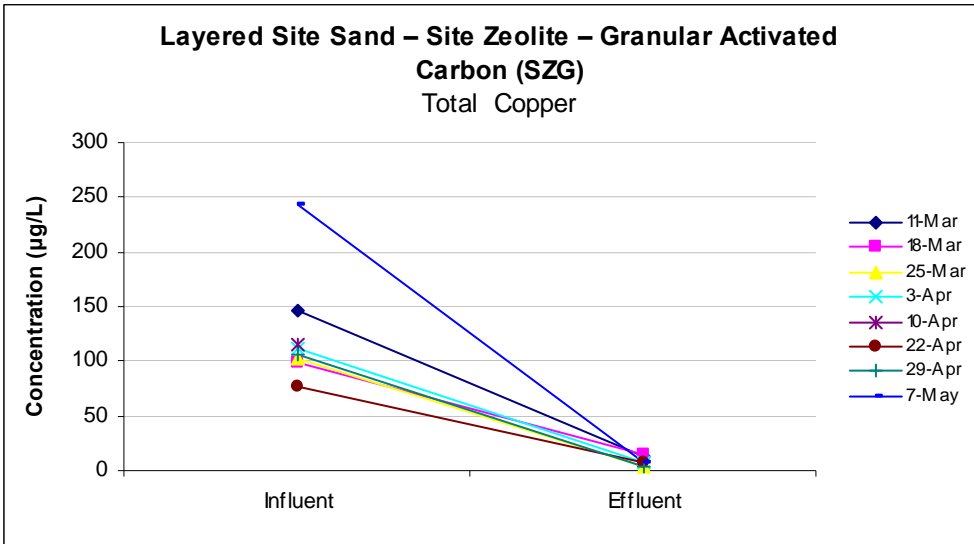
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	0.611	0.611	0.034	0.862
Residual	5.000	91.103	18.221		
Total	6.000	91.714			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	7.708	4.252	1.813	0.130	-3.221	18.637	-3.221	18.637
X Variable 1	0.006	0.031	0.183	0.862	-0.074	0.086	-0.074	0.086

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	8.541	4.459
2	8.267	5.733
3	8.290	-4.290
4	8.347	-0.347
5	8.142	-0.142
6	8.313	-4.313
7	9.100	-1.100





# Dissolved Cu

MWH Sand-GAC-MWH Zeolite Layered

## SUMMARY OUTPUT

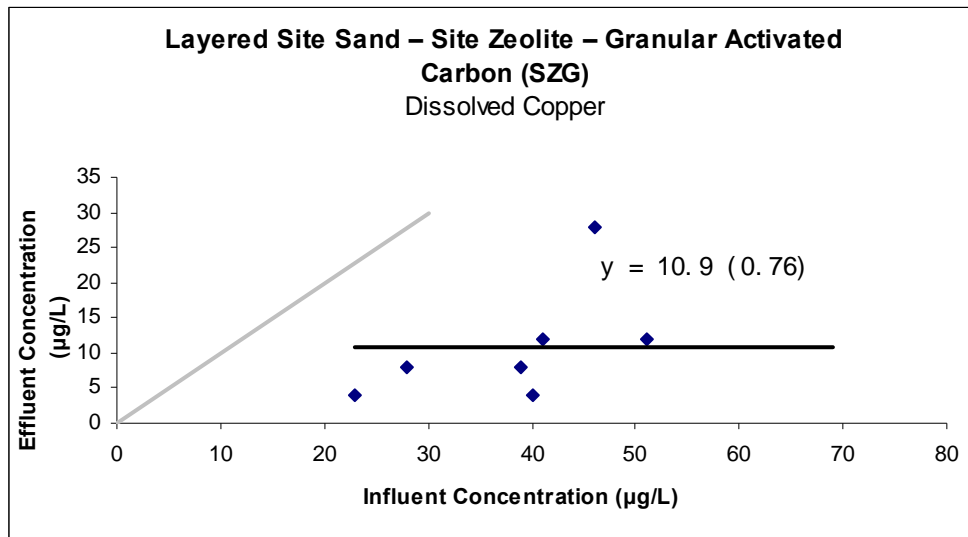
Regression Statistics	
Multiple R	0.561
R Square	0.314
Adjusted R Square	0.177
Standard Error	7.470
Observations	7.000

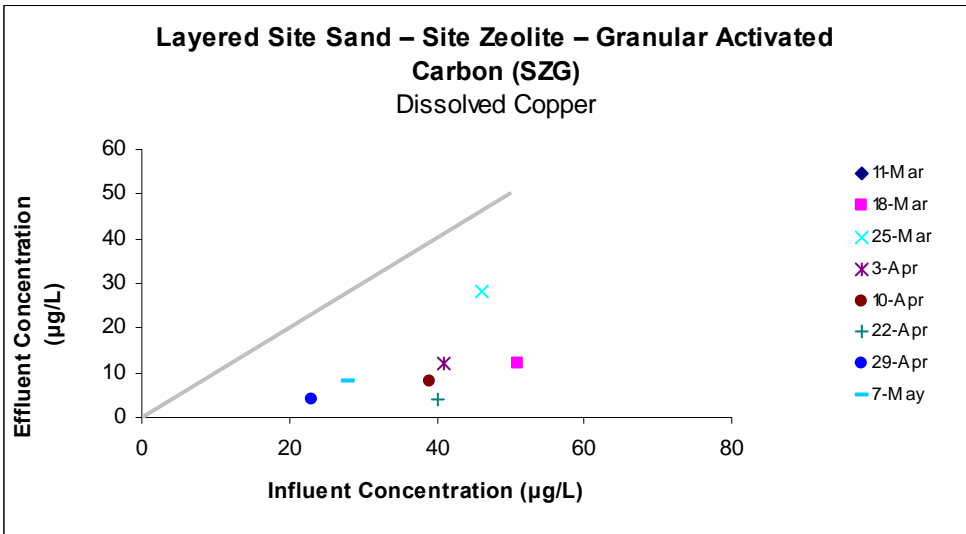
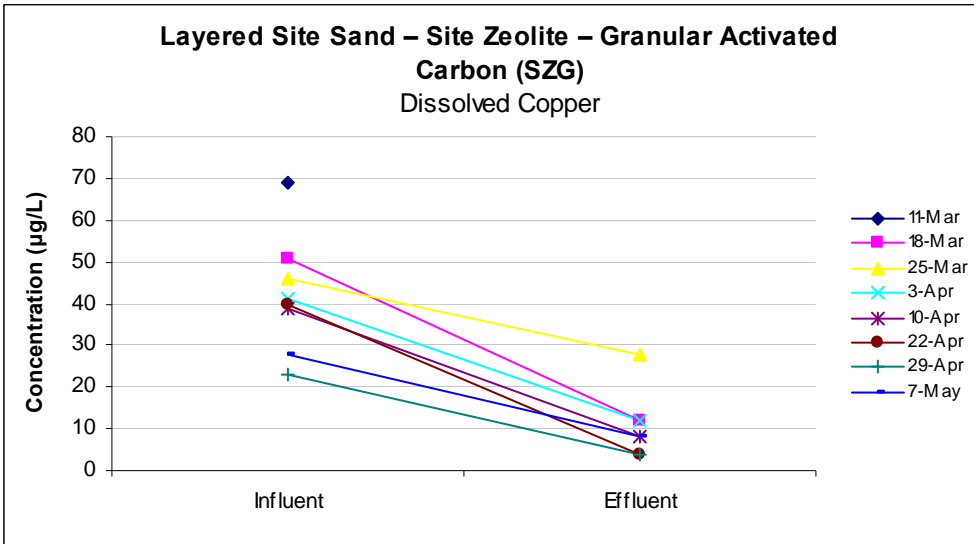
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	127.845	127.845	2.291	0.191
Residual	5.000	279.012	55.802		
Total	6.000	406.857			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-7.252	12.293	-0.590	0.581	-38.852	24.348	-38.852	24.348
X Variable 1	0.473	0.312	1.514	0.191	-0.330	1.276	-0.330	1.276

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	16.871	-4.871
2	14.506	13.494
3	12.141	-0.141
4	11.195	-3.195
5	11.668	-7.668
6	3.627	0.373
7	5.992	2.008





# Total Fe

MWH Sand-GAC-MWH Zeolite Layered

## SUMMARY OUTPUT

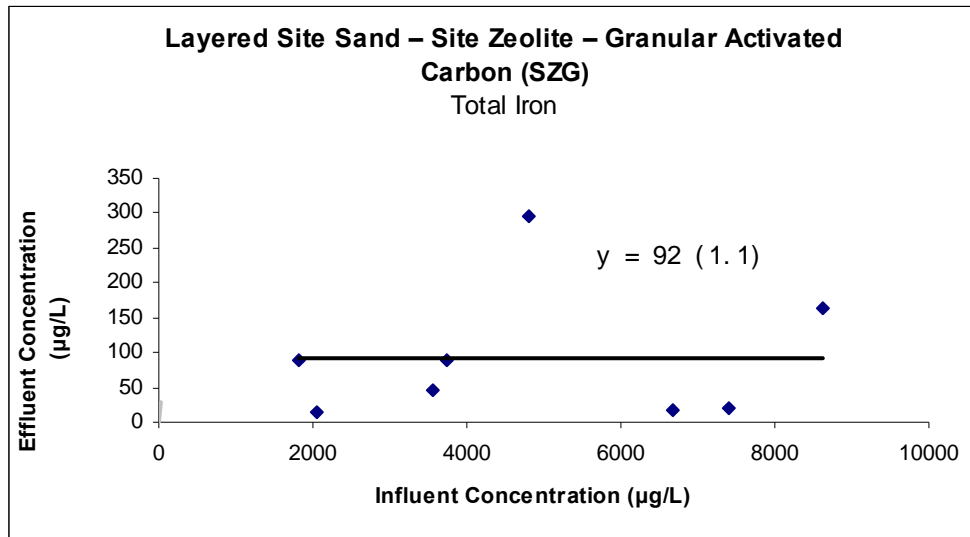
Regression Statistics	
Multiple R	0.142
R Square	0.020
Adjusted R Square	-0.143
Standard Error	103.179
Observations	8.000

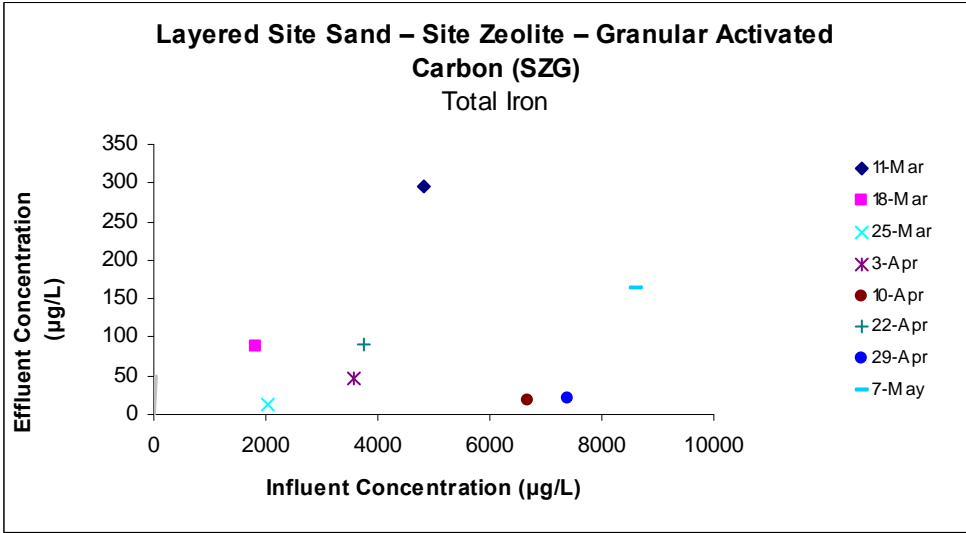
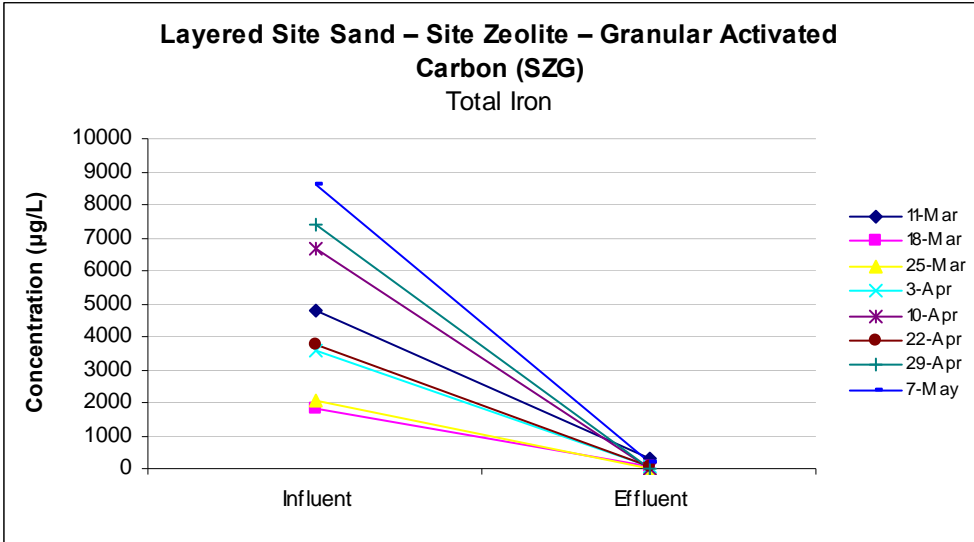
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	1320.300	1320.300	0.124	0.737
Residual	6.000	63875.700	10645.950		
Total	7.000	65196.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	65.489	83.653	0.783	0.463	-139.201	270.180	-139.201	270.180
X Variable 1	0.005	0.016	0.352	0.737	-0.033	0.044	-0.033	0.044

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	91.870	203.130
2	75.469	12.531
3	76.719	-63.719
4	84.999	-37.999
5	102.140	-84.140
6	86.052	3.948
7	106.022	-85.022
8	112.728	51.272





# Dissolved Fe

MWH Sand-GAC-MWH Zeolite Layered

## SUMMARY OUTPUT

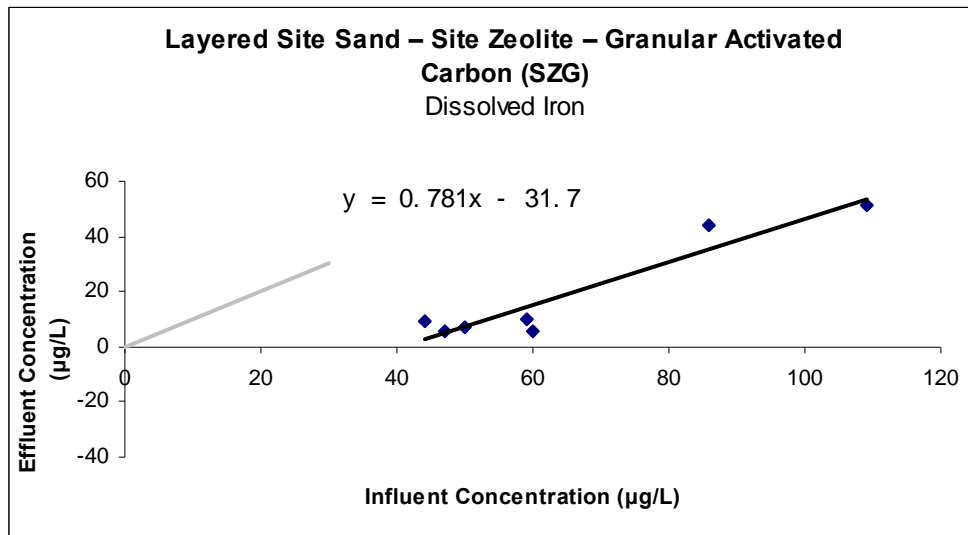
Regression Statistics	
Multiple R	0.951
R Square	0.904
Adjusted R Square	0.884
Standard Error	6.679
Observations	7.000

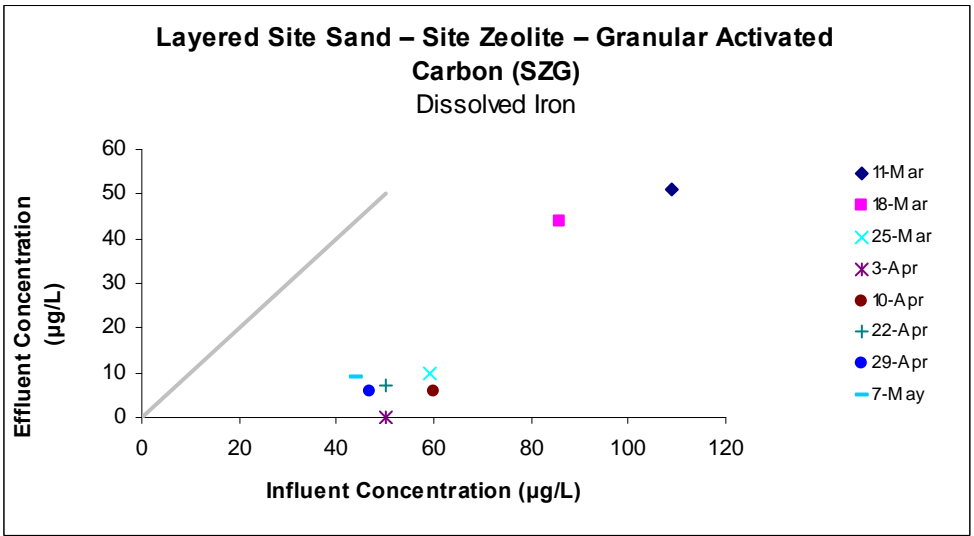
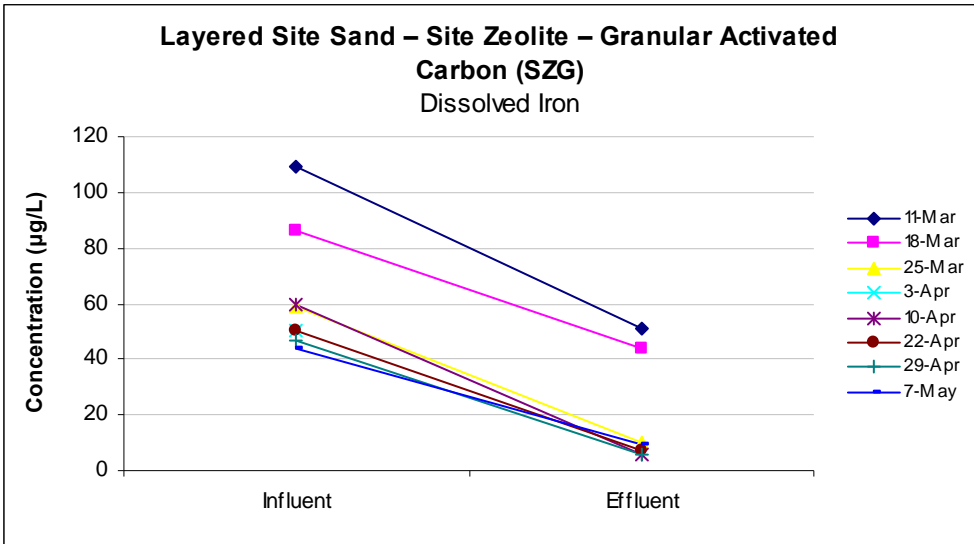
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	2088.966	2088.966	46.831	0.001
Residual	5.000	223.034	44.607		
Total	6.000	2312.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-31.741	7.833	-4.052	0.010	-51.875	-11.607	-51.875	-11.607
X Variable 1	0.781	0.114	6.843	0.001	0.487	1.074	0.487	1.074

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	53.348	-2.348
2	35.393	8.607
3	14.316	-4.316
4	15.097	-9.097
5	7.291	-0.291
6	4.949	1.051
7	2.607	6.393







# Total Mg

MWH Sand-GAC-MWH Zeolite Layered

## SUMMARY OUTPUT

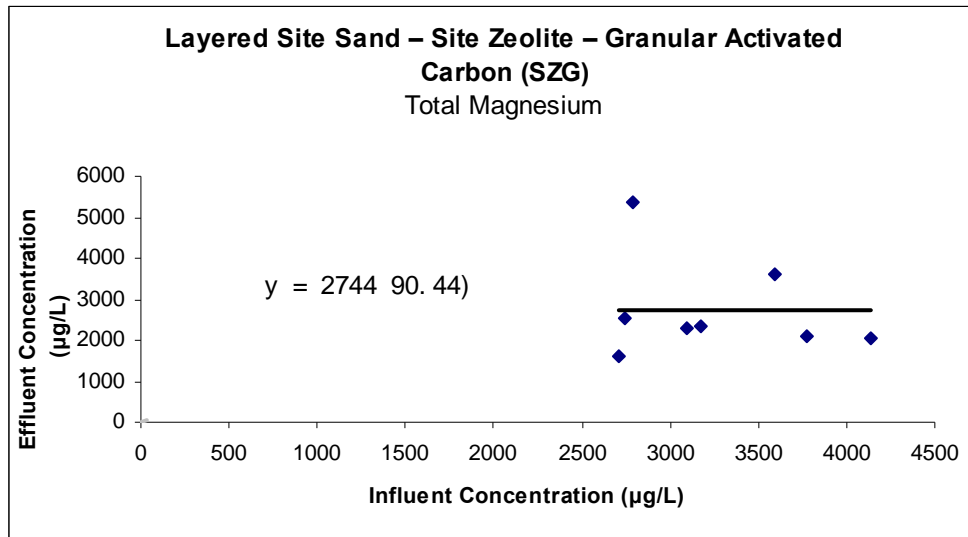
Regression Statistics	
Multiple R	0.237
R Square	0.056
Adjusted R Square	-0.101
Standard Error	1272.730
Observations	8.000

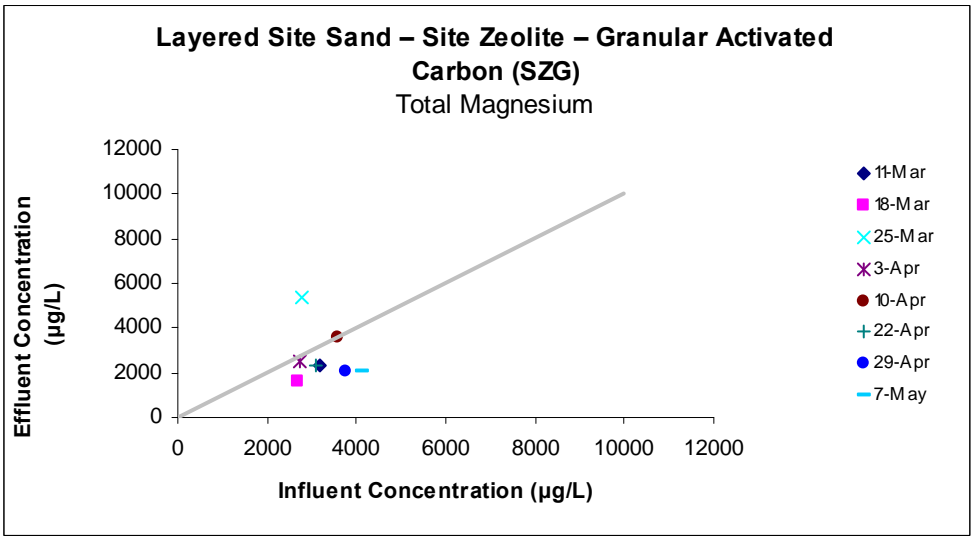
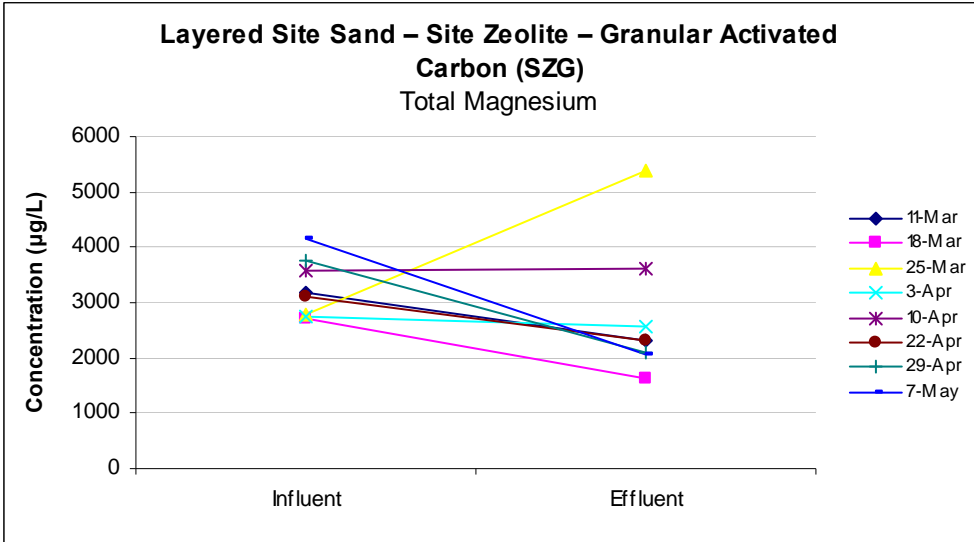
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	577838.434	577838.434	0.357	0.572
Residual	6.000	9719051.566	1619841.928		
Total	7.000	10296890.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	4504.119	2981.121	1.511	0.182	-2790.423	11798.660	-2790.423	11798.660
X Variable 1	-0.541	0.906	-0.597	0.572	-2.758	1.676	-2.758	1.676

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	2783.643	-462.643
2	3040.172	-1422.172
3	2994.711	2389.289
4	3019.065	-469.065
5	2561.210	1054.790
6	2826.939	-512.939
7	2462.170	-364.170
8	2264.091	-213.091





# Dissolved Mg

MWH Sand-GAC-MWH Zeolite Layered

## SUMMARY OUTPUT

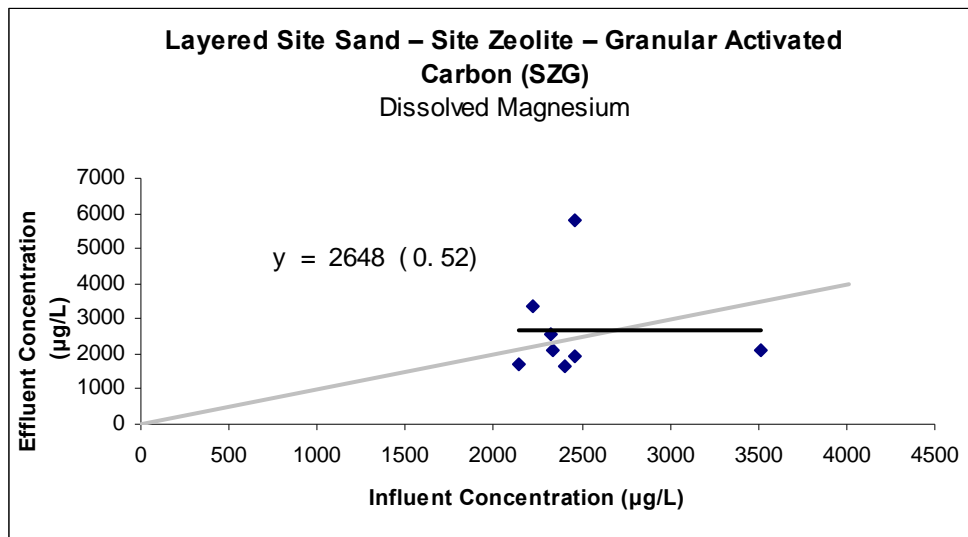
Regression Statistics	
Multiple R	0.068
R Square	0.005
Adjusted R Square	-0.161
Standard Error	1488.025
Observations	8.000

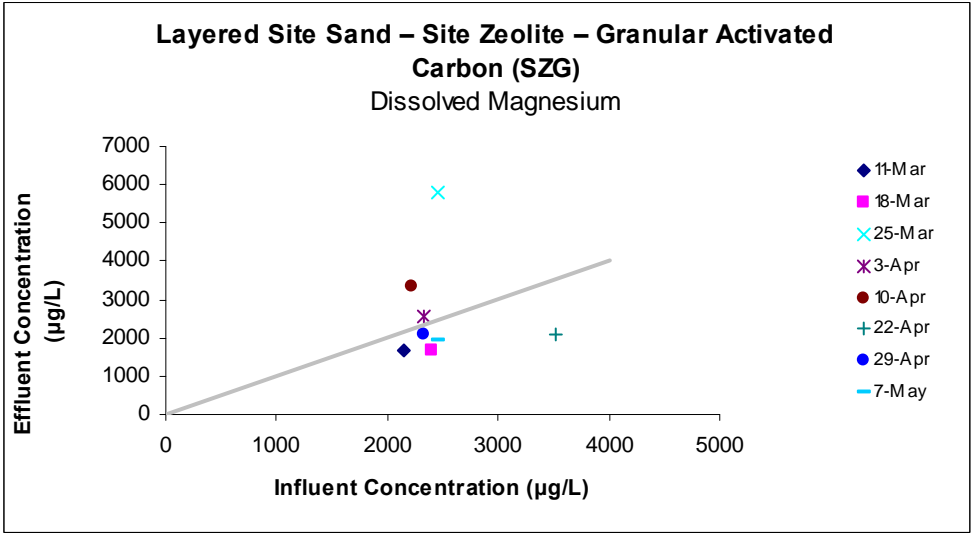
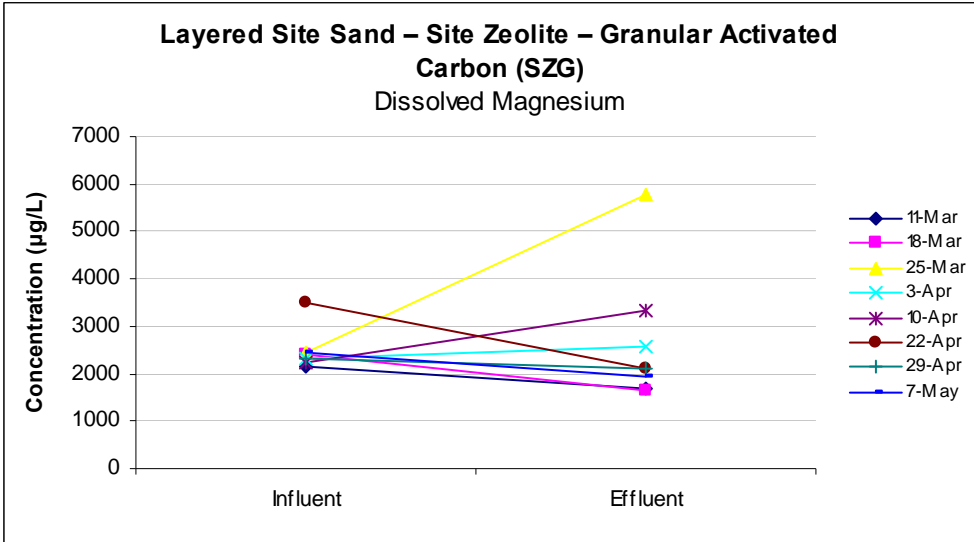
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	60971.270	60971.270	0.028	0.874
Residual	6.000	13285302.730	2214217.122		
Total	7.000	13346274.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	3184.549	3275.901	0.972	0.369	-4831.291	11200.389	-4831.291	11200.389
X Variable 1	-0.216	1.302	-0.166	0.874	-3.402	2.970	-3.402	2.970

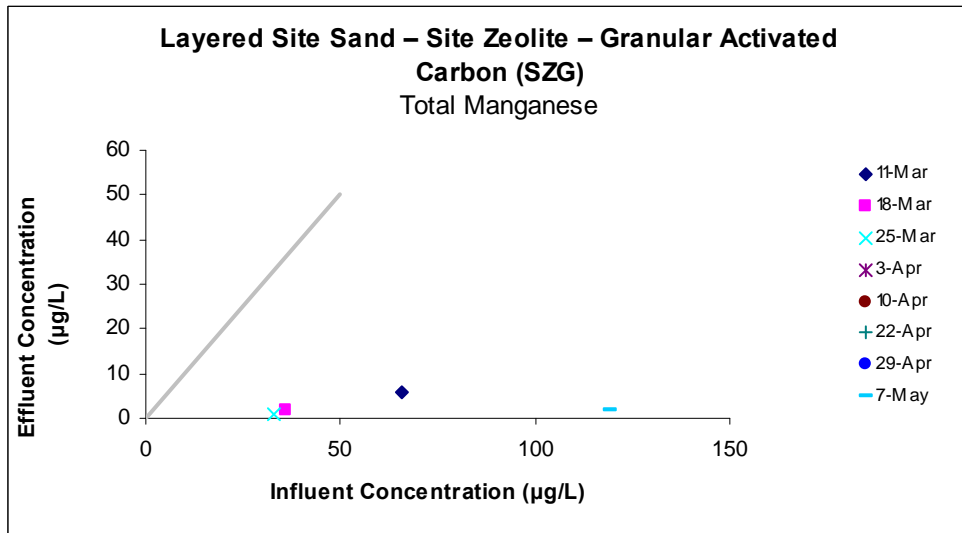
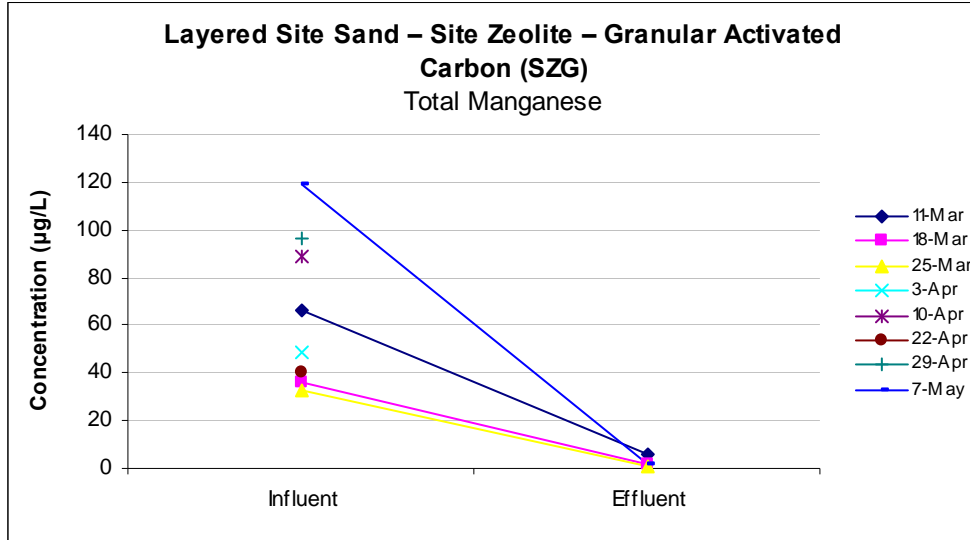
## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	2721.347	-1038.347
2	2665.176	-1019.176
3	2652.429	3132.571
4	2681.811	-116.811
5	2704.712	640.288
6	2424.717	-313.717
7	2680.083	-579.083
8	2653.725	-705.725

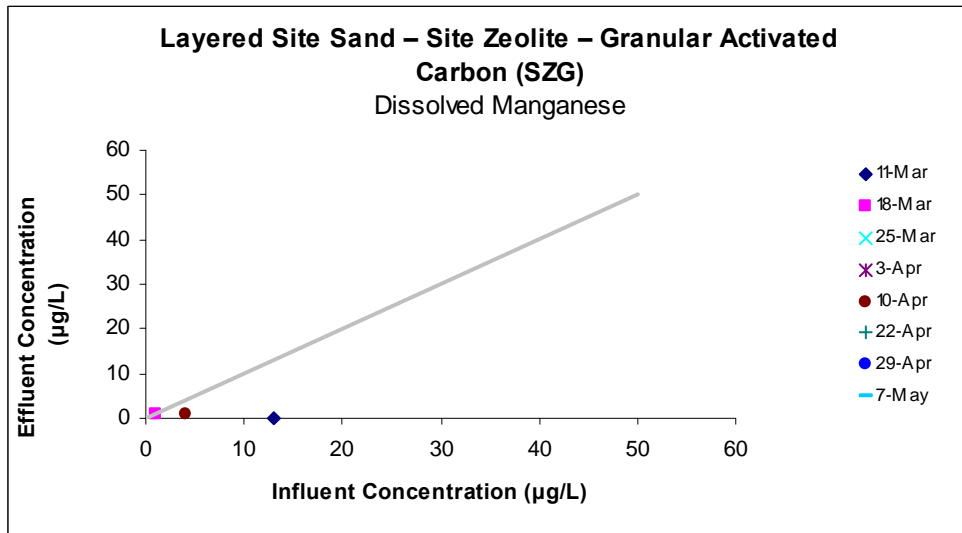
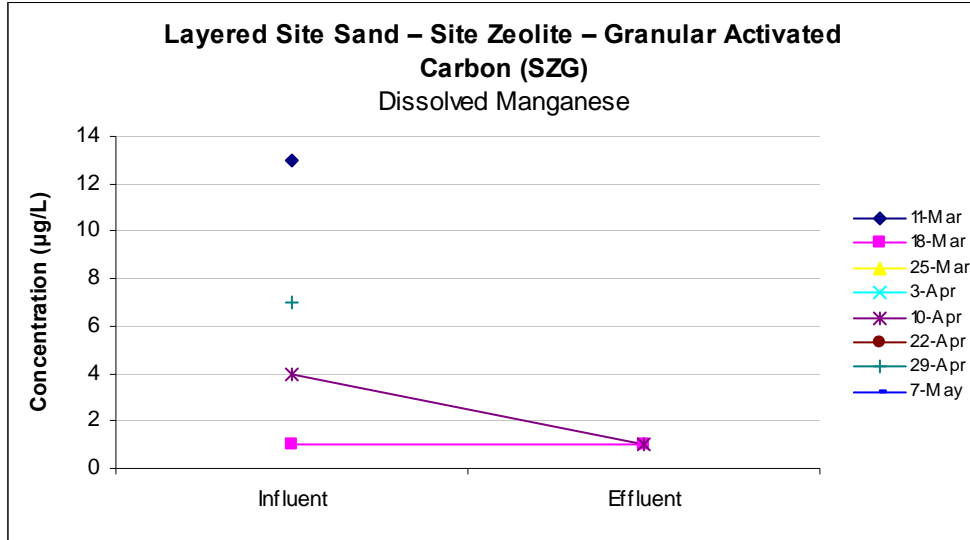




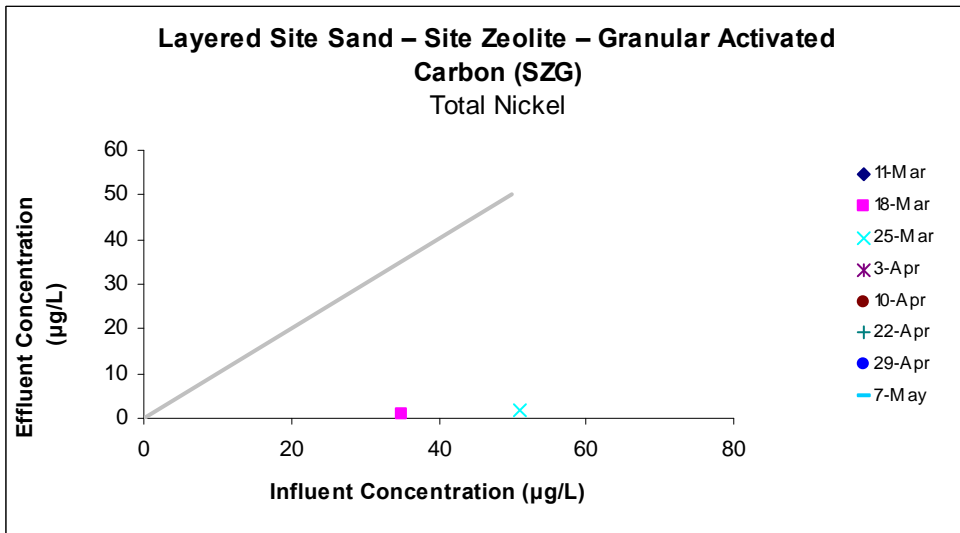
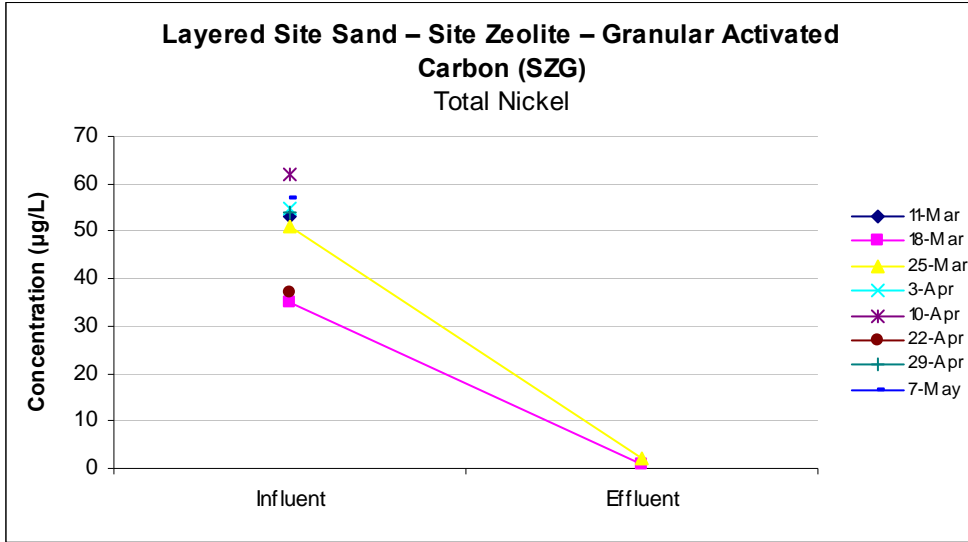
Total Mn



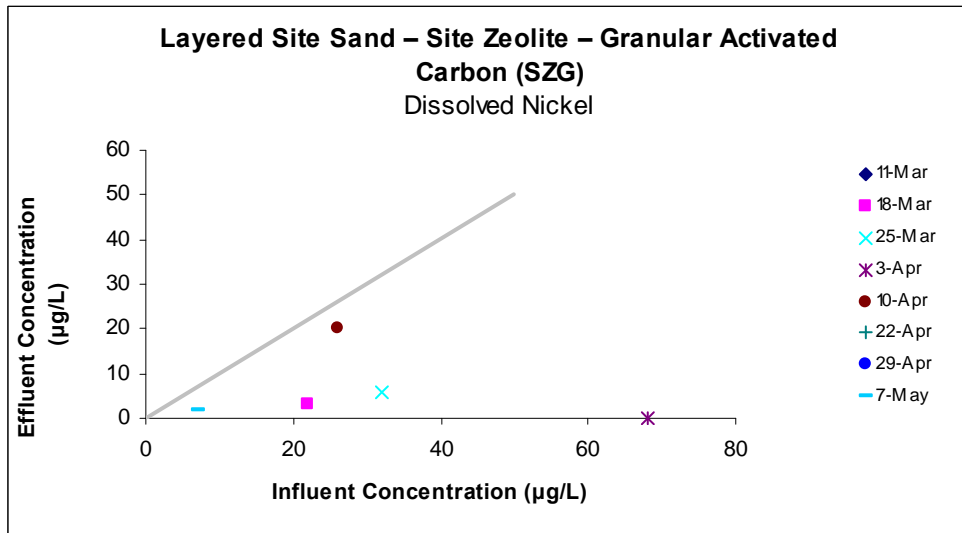
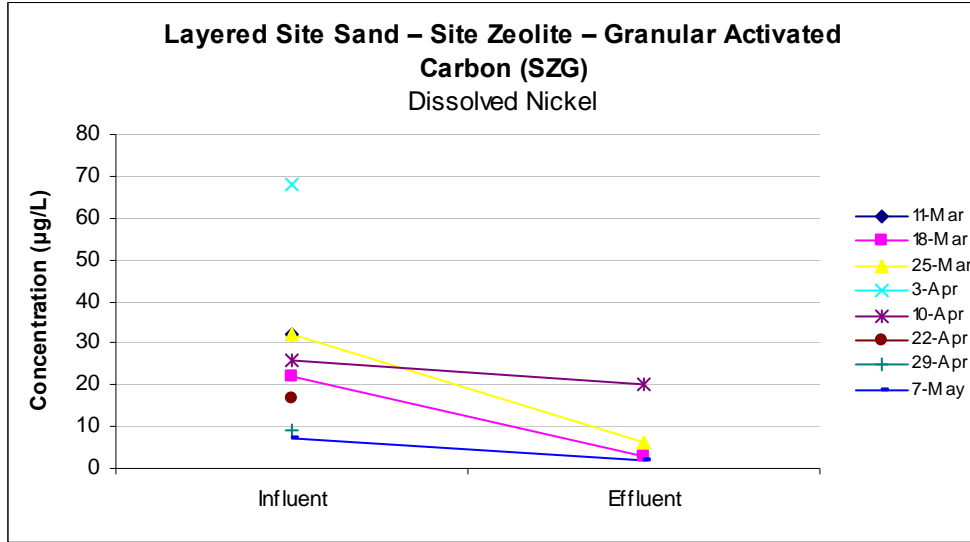
Dissolved Mn



Total Ni

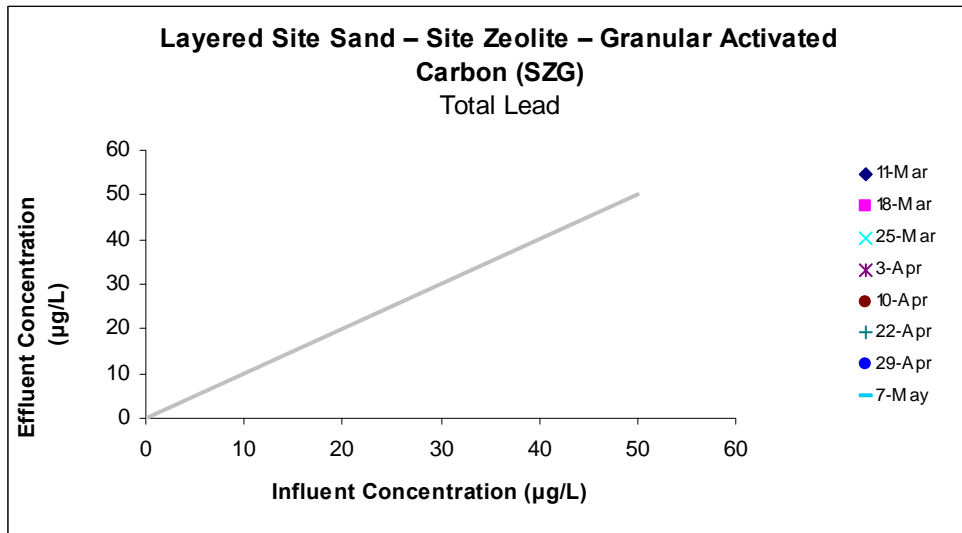
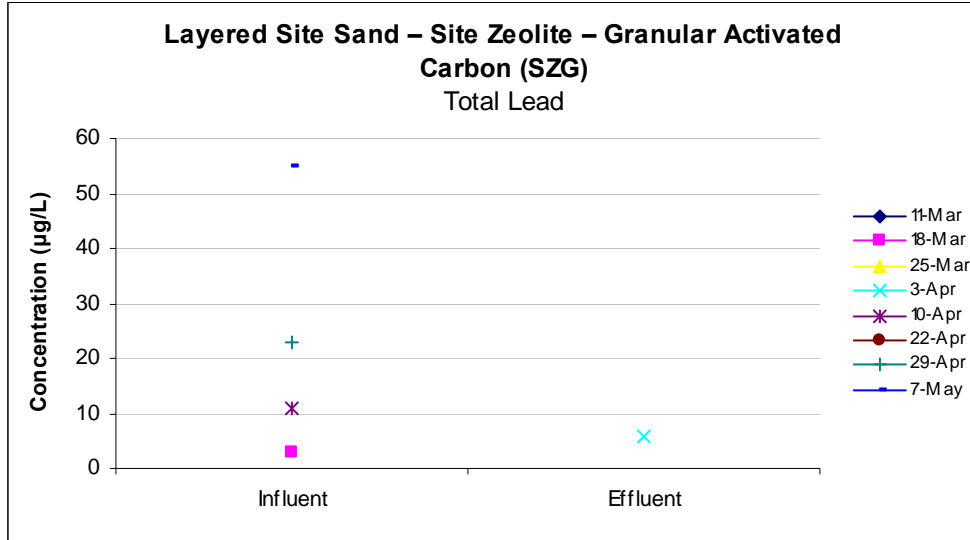


Dissolved Ni

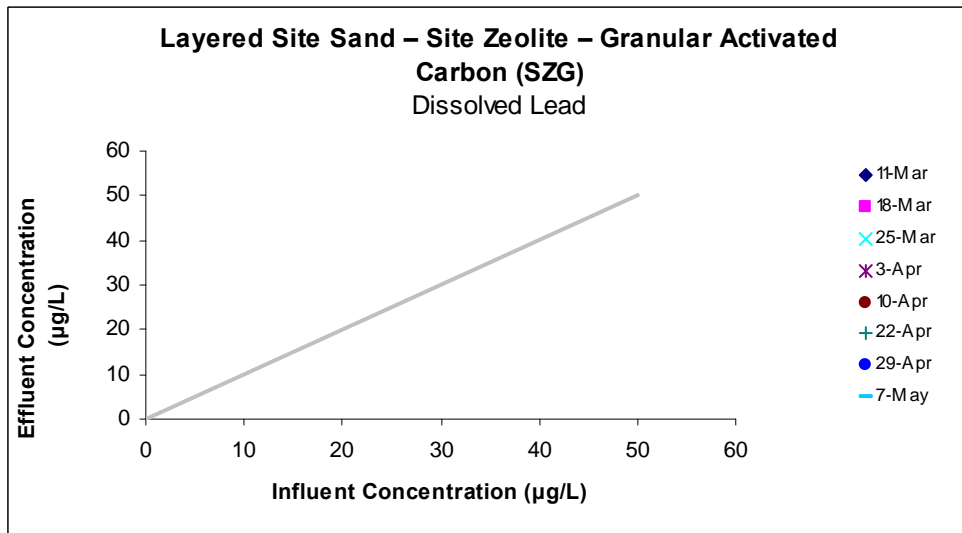
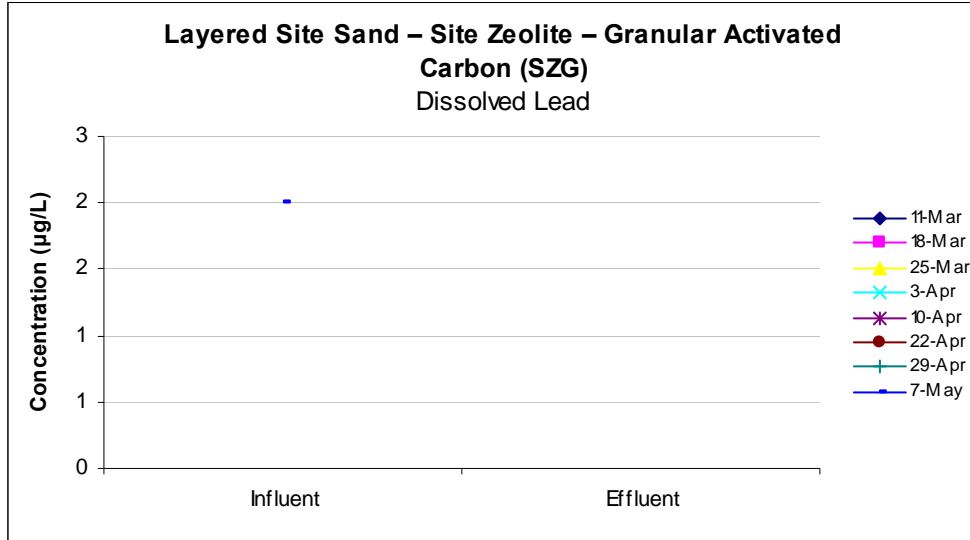




Total Pb



Dissolved Pb



# Total Zn

MWH Sand-GAC-MWH Zeolite Layered

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.028
R Square	0.001
Adjusted R Square	-0.166
Standard Error	16.880
Observations	8.000

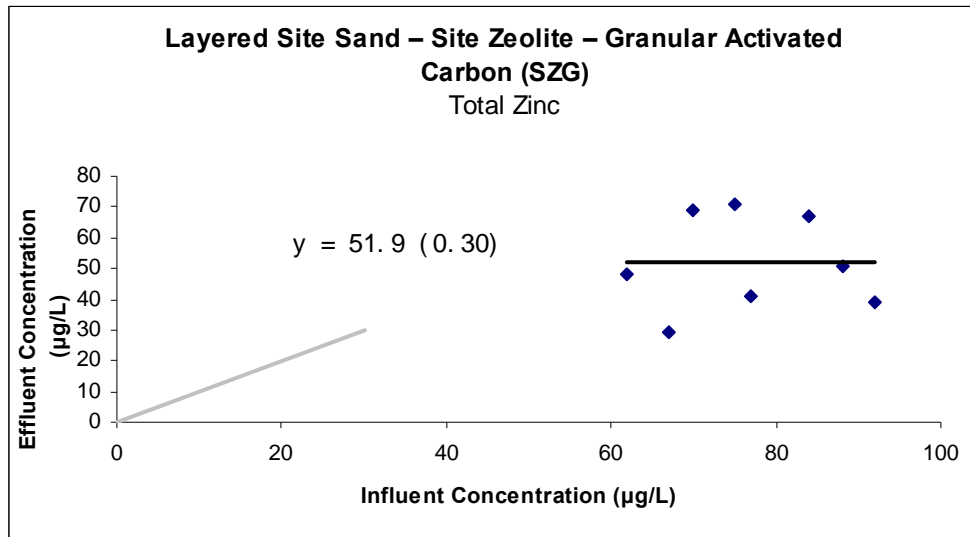
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	1.315	1.315	0.005	0.948
Residual	6.000	1709.560	284.927		
Total	7.000	1710.875			

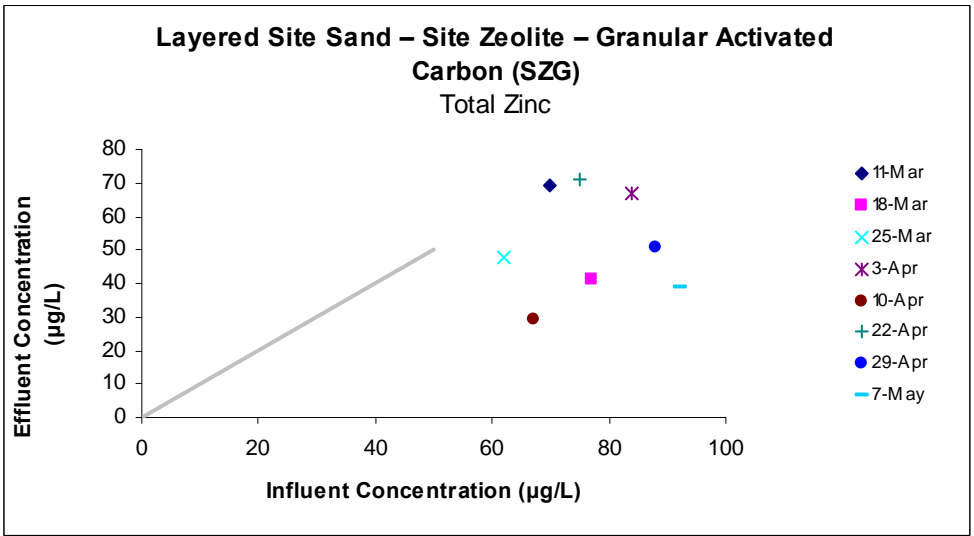
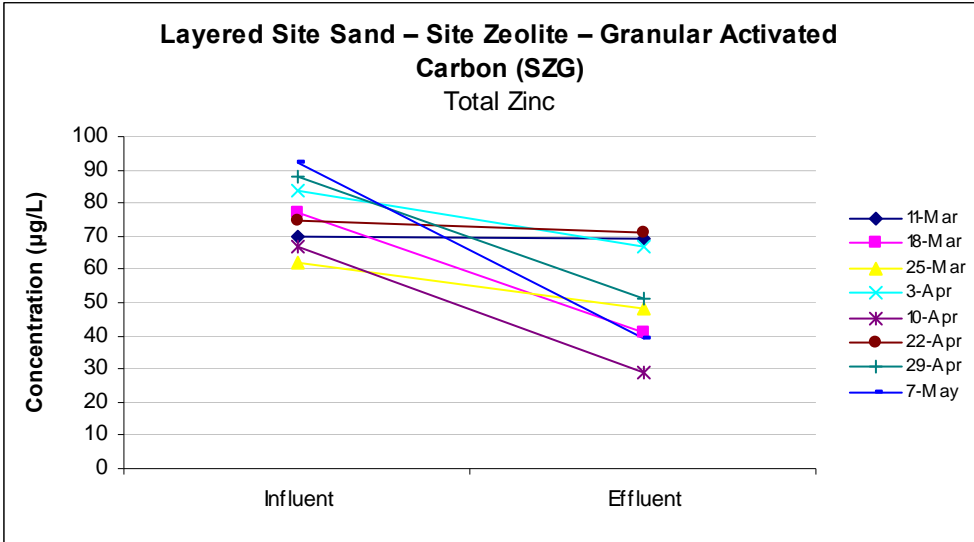
  

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	48.705	47.056	1.035	0.341	-66.438	163.847	-66.438	163.847
X Variable 1	0.041	0.607	0.068	0.948	-1.444	1.527	-1.444	1.527

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	51.591	17.409
2	51.880	-10.880
3	51.262	-3.262
4	52.169	14.831
5	51.468	-22.468
6	51.798	19.202
7	52.334	-1.334
8	52.499	-13.499





# Dissolved Zn

MWH Sand-GAC-MWH Zeolite Layered

## SUMMARY OUTPUT

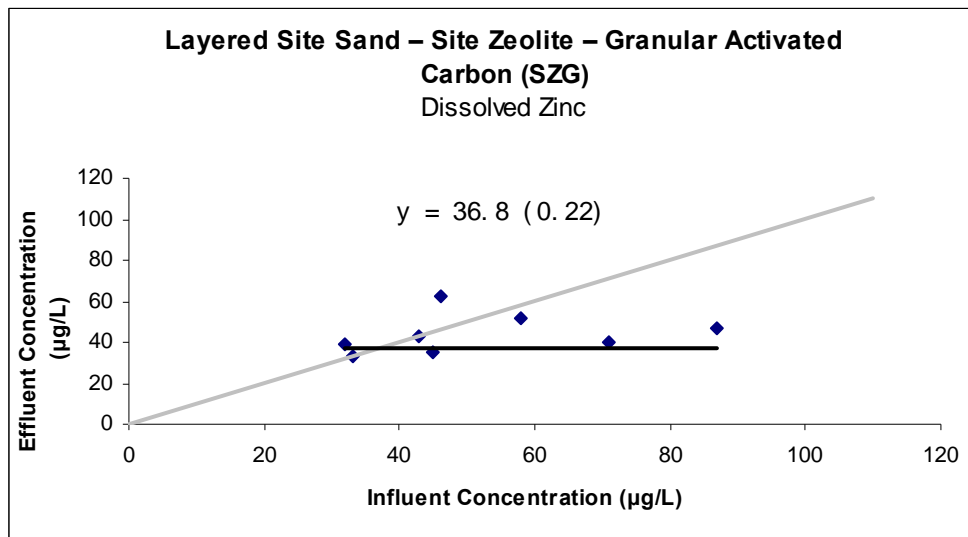
Regression Statistics	
Multiple R	0.274
R Square	0.075
Adjusted R Square	-0.079
Standard Error	9.940
Observations	8.000

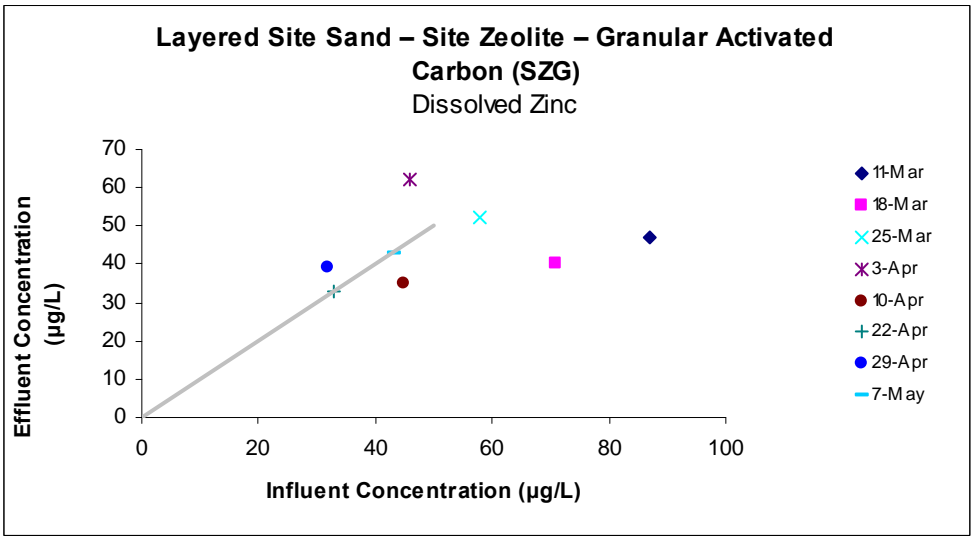
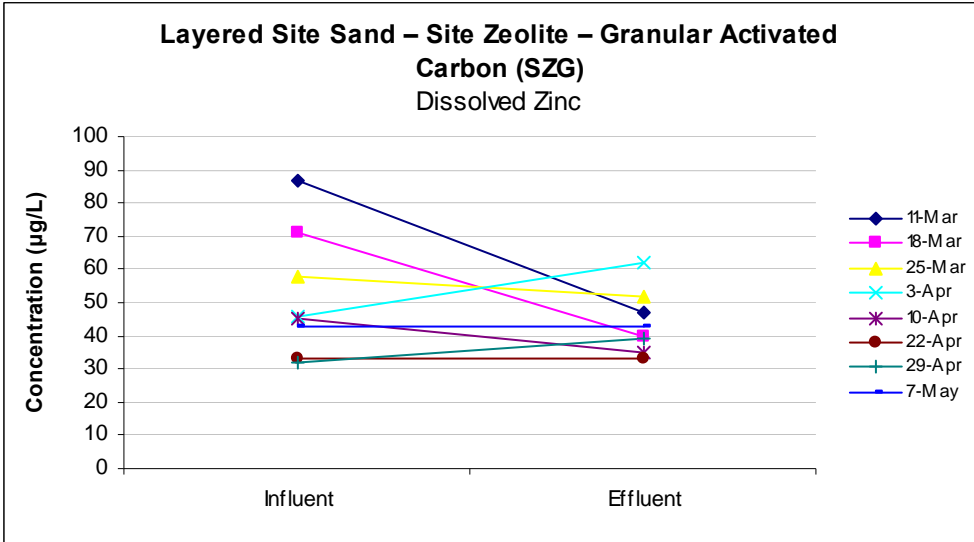
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	48.026	48.026	0.486	0.512
Residual	6.000	592.849	98.808		
Total	7.000	640.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	36.754	10.801	3.403	0.014	10.324	63.184	10.324	63.184
X Variable 1	0.137	0.197	0.697	0.512	-0.345	0.619	-0.345	0.619

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	48.696	-1.696
2	46.500	-6.500
3	44.716	7.284
4	43.069	18.931
5	42.931	-7.931
6	41.284	-8.284
7	41.147	-2.147
8	42.657	0.343





# Total K

MWH Sand-GAC-MWH Zeolite Layered

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.069
R Square	0.005
Adjusted R Square	-0.161
Standard Error	4027.312
Observations	8.000

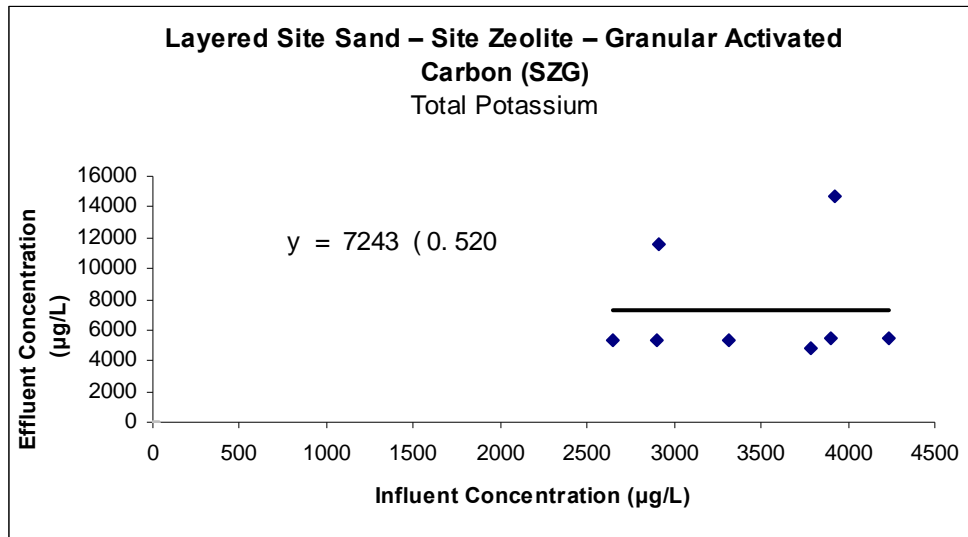
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	463945.194	463945.194	0.029	0.871
Residual	6.000	97315468.806	16219244.801		
Total	7.000	97779414.000			

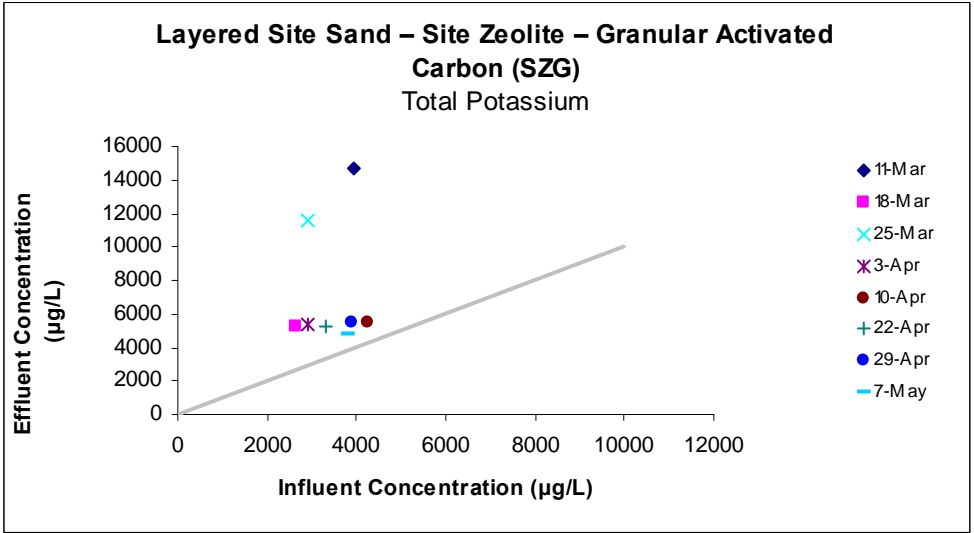
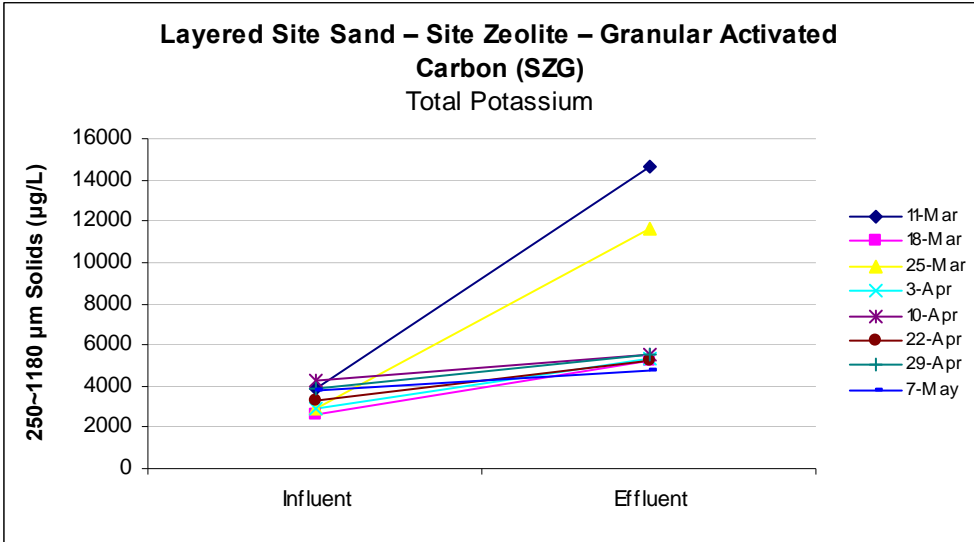
  

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	5725.432	9085.119	0.630	0.552	-16505.053	27955.916	-16505.053	27955.916
X Variable 1	0.439	2.598	0.169	0.871	-5.918	6.797	-5.918	6.797

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	7447.492	7224.508
2	6890.316	-1608.316
3	7006.760	4599.240
4	7000.169	-1676.169
5	7588.104	-2076.104
6	7181.647	-1908.647
7	7438.264	-1925.264
8	7391.247	-2629.247







# Dissolved K

MWH Sand-GAC-MWH Zeolite Layered

## SUMMARY OUTPUT

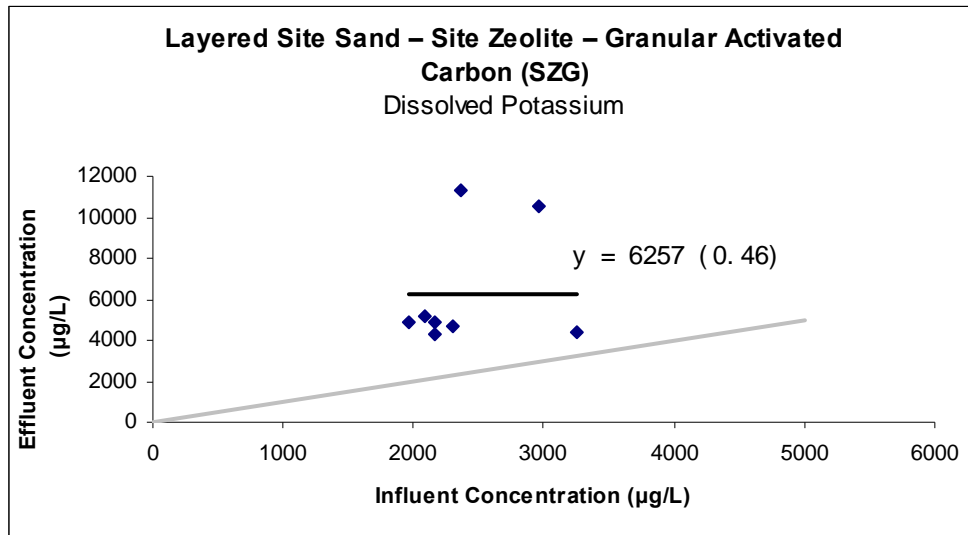
Regression Statistics	
Multiple R	0.271
R Square	0.073
Adjusted R Square	-0.081
Standard Error	3004.665
Observations	8.000

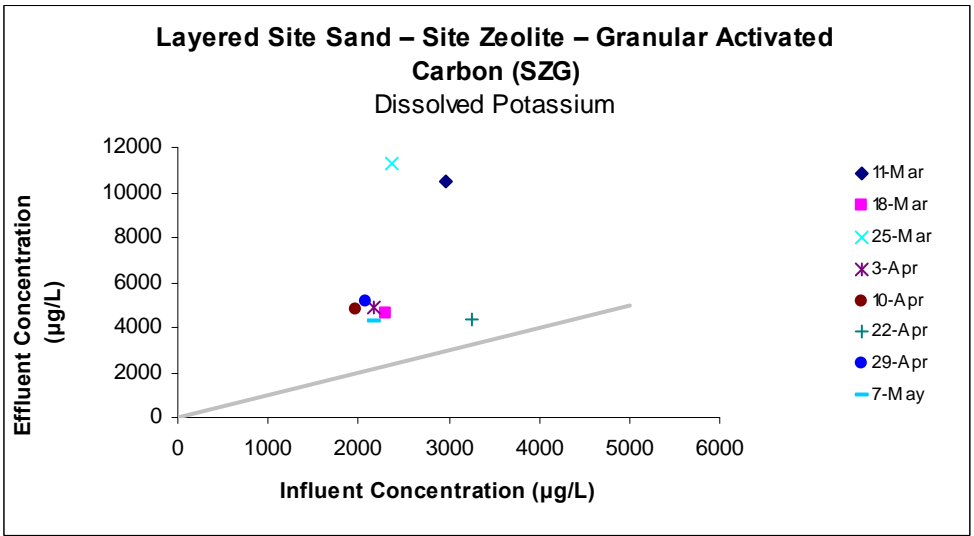
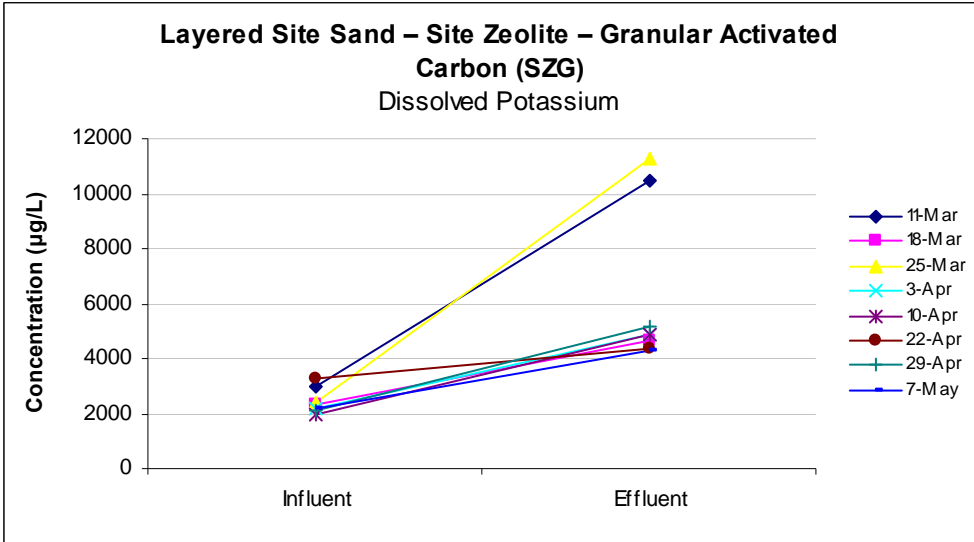
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	4286877.566	4286877.566	0.475	0.517
Residual	6.000	54168060.434	9028010.072		
Total	7.000	58454938.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	2123.113	6092.402	0.348	0.739	-12784.457	17030.684	-12784.457	17030.684
X Variable 1	1.718	2.492	0.689	0.517	-4.381	7.816	-4.381	7.816

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	7200.140	3308.860
2	6080.309	-1416.309
3	6190.231	5105.769
4	5836.419	-941.419
5	5489.478	-647.478
6	7711.965	-3329.965
7	5697.299	-497.299
8	5850.159	-1582.159





# Total Na

MWH Sand-GAC-MWH Zeolite Layered

## SUMMARY OUTPUT

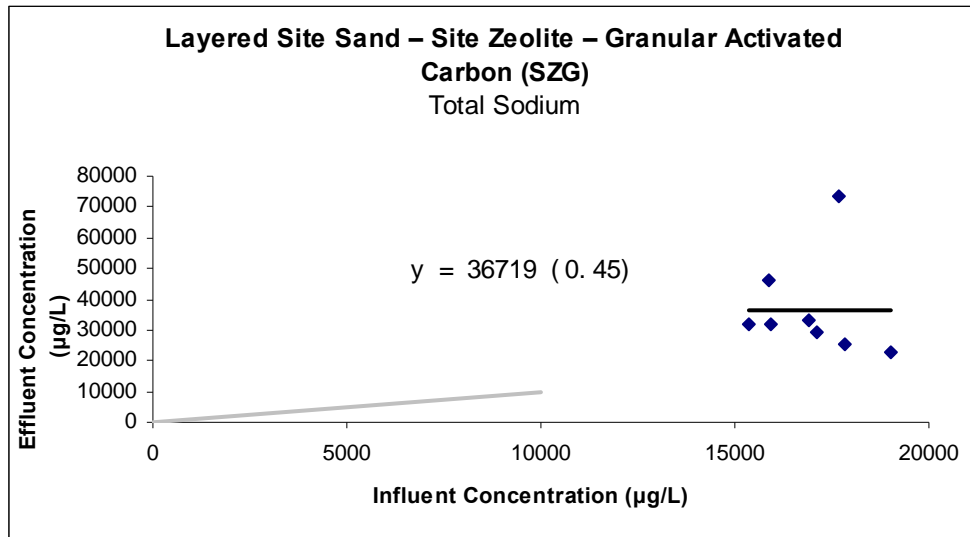
Regression Statistics	
Multiple R	0.066
R Square	0.004
Adjusted R Square	-0.162
Standard Error	17739.434
Observations	8.000

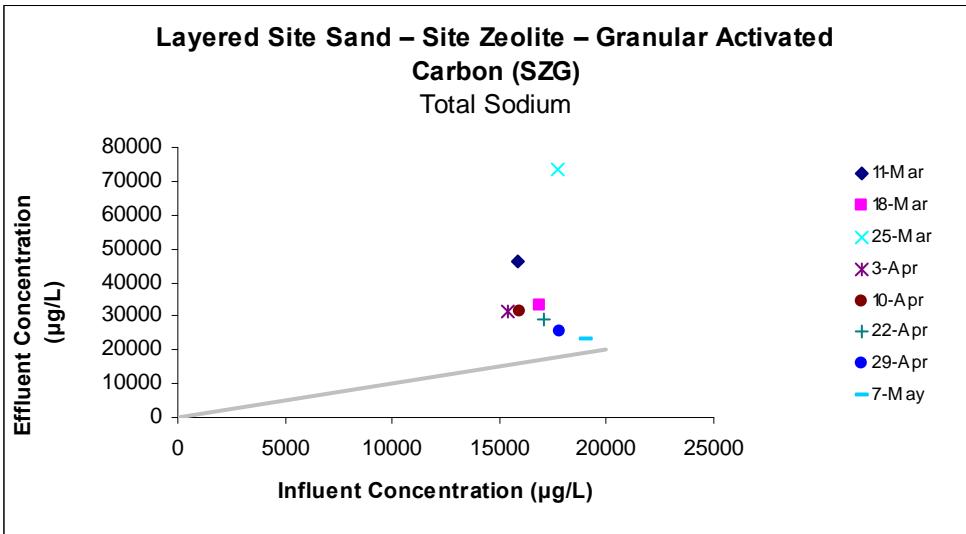
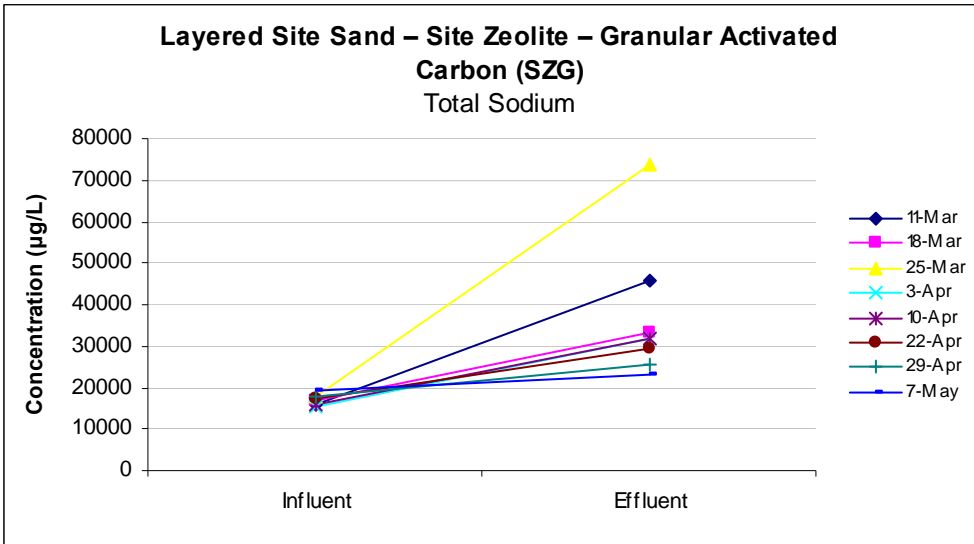
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	8350169.478	8350169.478	0.027	0.876
Residual	6.000	1888125068.397	314687511.399		
Total	7.000	1896475237.875			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	51927.139	93574.300	0.555	0.599	-177040.924	280895.202	-177040.924	280895.202
X Variable 1	-0.896	5.502	-0.163	0.876	-14.359	12.566	-14.359	12.566

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	37697.752	8278.248
2	36772.847	-3399.847
3	36078.271	37668.729
4	38156.620	-6552.620
5	37642.186	-6075.186
6	36587.328	-7387.328
7	35954.592	-10617.592
8	34859.403	-11914.403





# Dissolve Na

MWH Sand-GAC-MWH Zeolite Layered

## SUMMARY OUTPUT

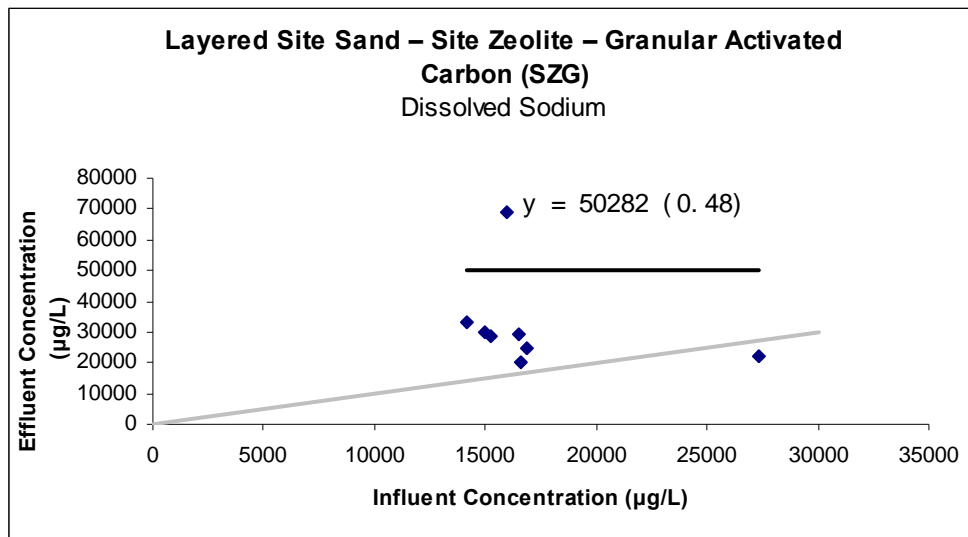
Regression Statistics	
Multiple R	0.283
R Square	0.080
Adjusted R Square	-0.074
Standard Error	16137.425
Observations	8.000

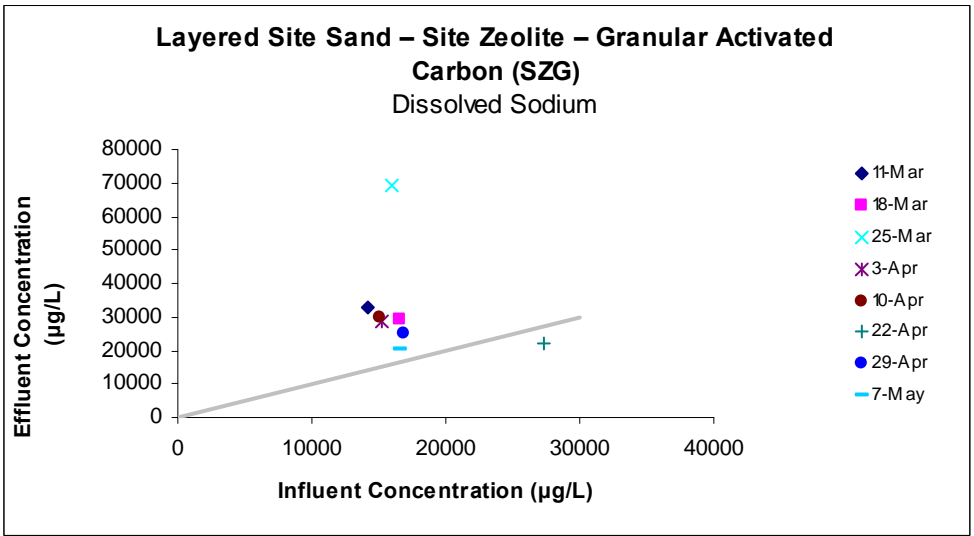
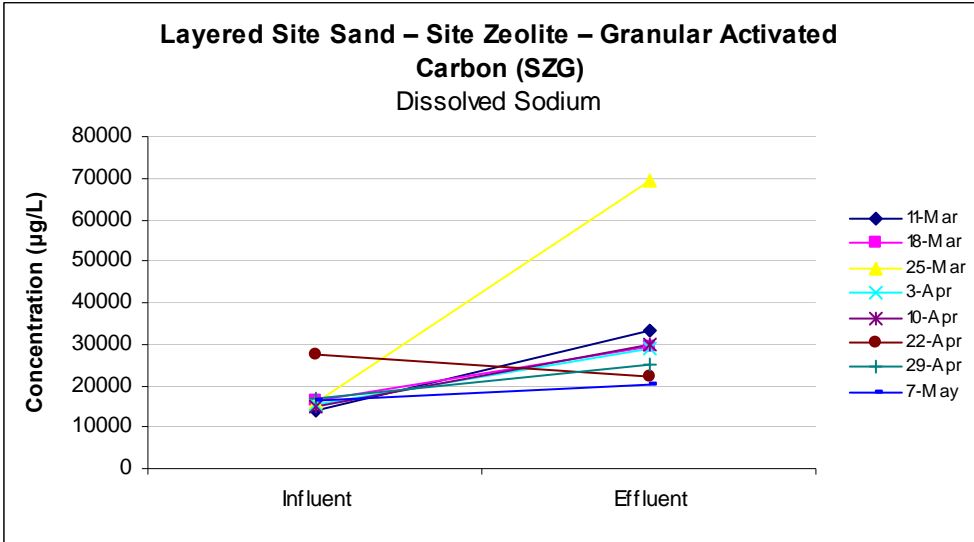
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	135576403.777	135576403.777	0.521	0.498
Residual	6.000	1562498883.723	260416480.620		
Total	7.000	1698075287.500			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	50282.158	25703.606	1.956	0.098	-12612.300	113176.616	-12612.300	113176.616
X Variable 1	-1.051	1.456	-0.722	0.498	-4.613	2.512	-4.613	2.512

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	35394.142	-2361.142
2	32914.732	-3431.732
3	33519.876	35724.124
4	34242.687	-5335.687
5	34520.045	-4726.045
6	21569.331	404.669
7	32602.705	-7642.705
8	32826.482	-12631.482





# Total Cr

MWH Sand-GAC-MWH Zeolite Layered

## SUMMARY OUTPUT

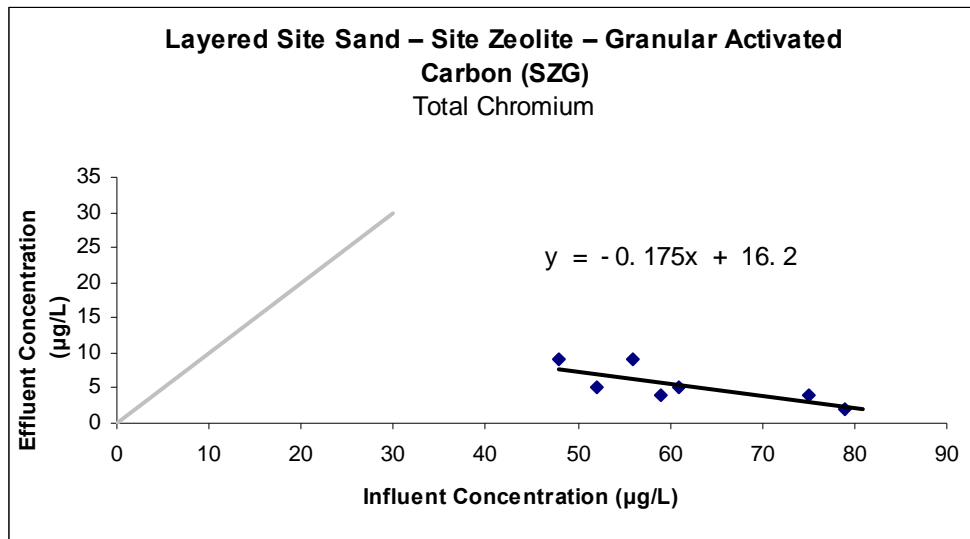
Regression Statistics	
Multiple R	0.764
R Square	0.583
Adjusted R Square	0.500
Standard Error	1.865
Observations	7.000

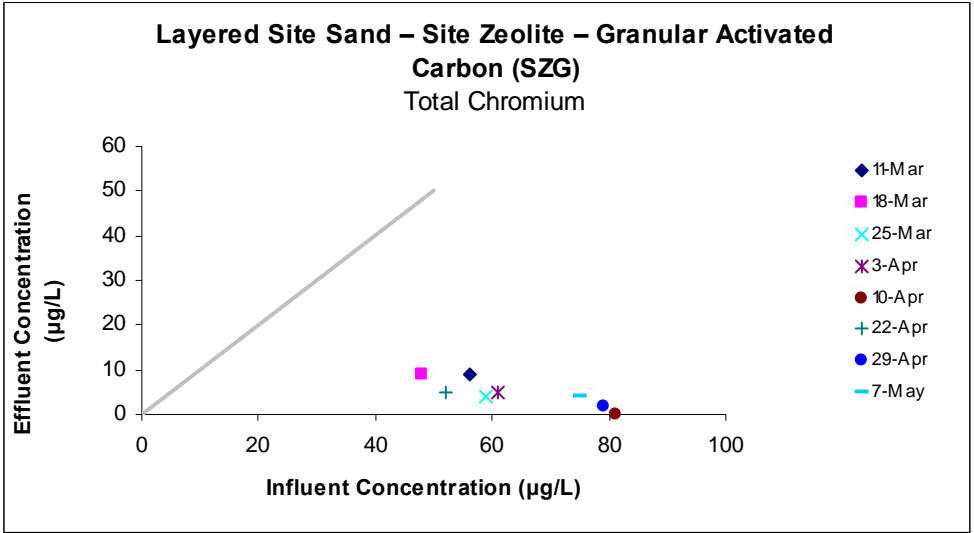
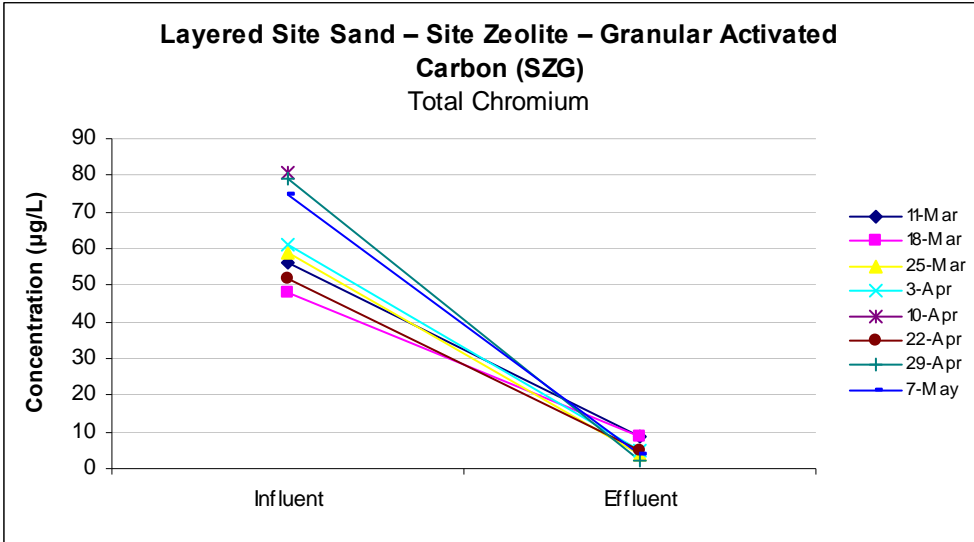
ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	24.320	24.320	6.991	0.046
Residual	5.000	17.394	3.479		
Total	6.000	41.714			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	16.154	4.117	3.923	0.011	5.570	26.739	5.570	26.739
X Variable 1	-0.175	0.066	-2.644	0.046	-0.344	-0.005	-0.344	-0.005

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	6.376	2.624
2	7.773	1.227
3	5.853	-1.853
4	5.503	-0.503
5	7.075	-2.075
6	2.360	-0.360
7	3.059	0.941







# Dissolved Cr

MWH Sand-GAC-MWH Zeolite Layered

## SUMMARY OUTPUT

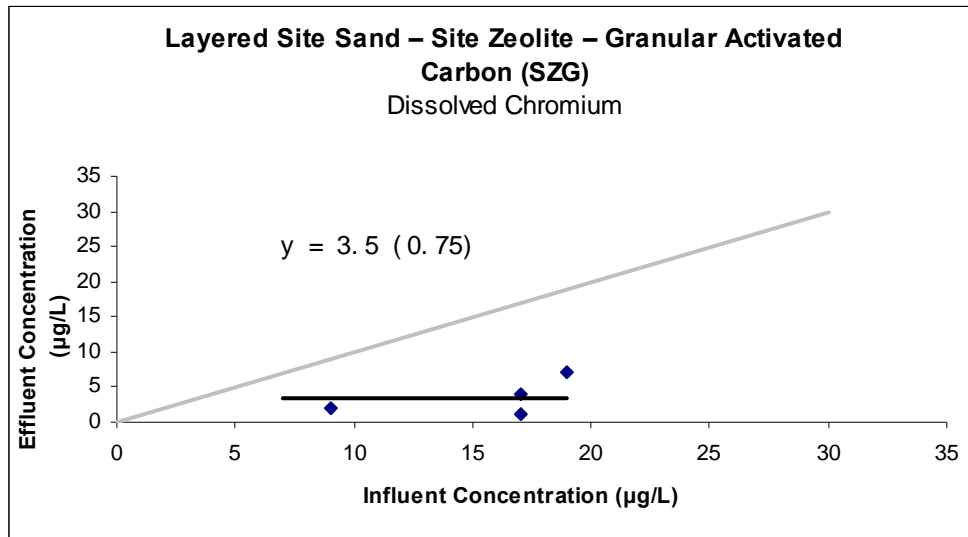
Regression Statistics	
Multiple R	0.540
R Square	0.291
Adjusted R Square	-0.063
Standard Error	2.728
Observations	4.000

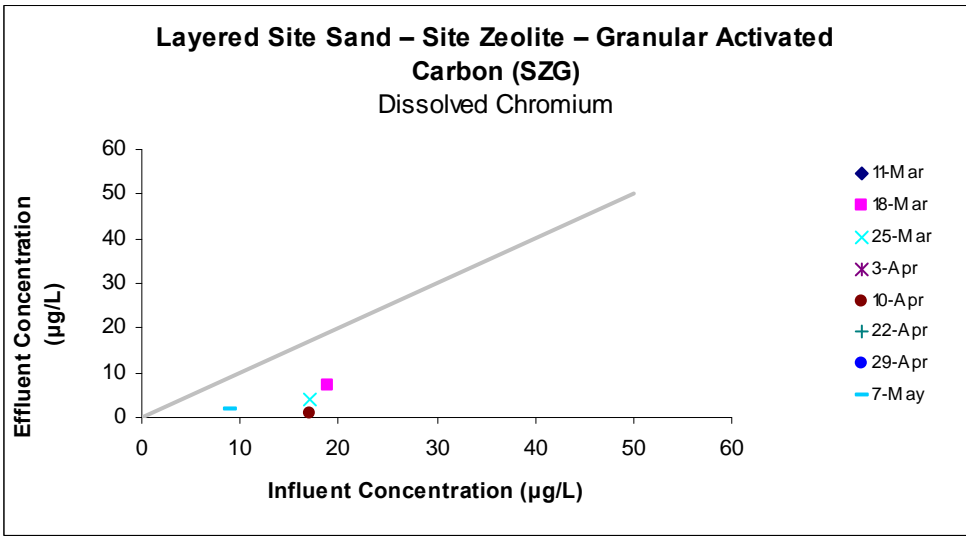
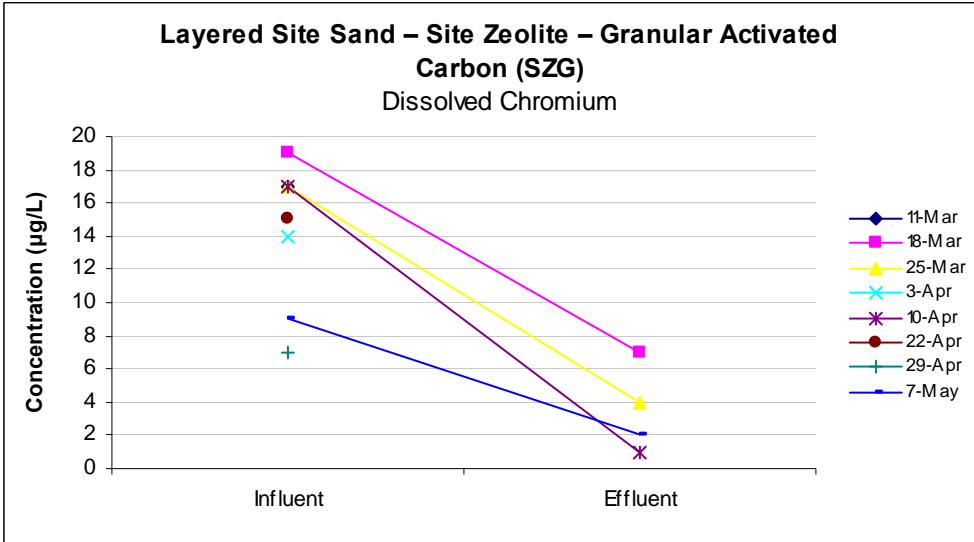
ANOVA						
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>	
Regression	1.000	6.119	6.119	0.822	0.460	
Residual	2.000	14.881	7.441			
Total	3.000	21.000				

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	-1.492	5.671	-0.263	0.817	-25.891	22.908	-25.891	22.908
X Variable 1	0.322	0.355	0.907	0.460	-1.206	1.850	-1.206	1.850

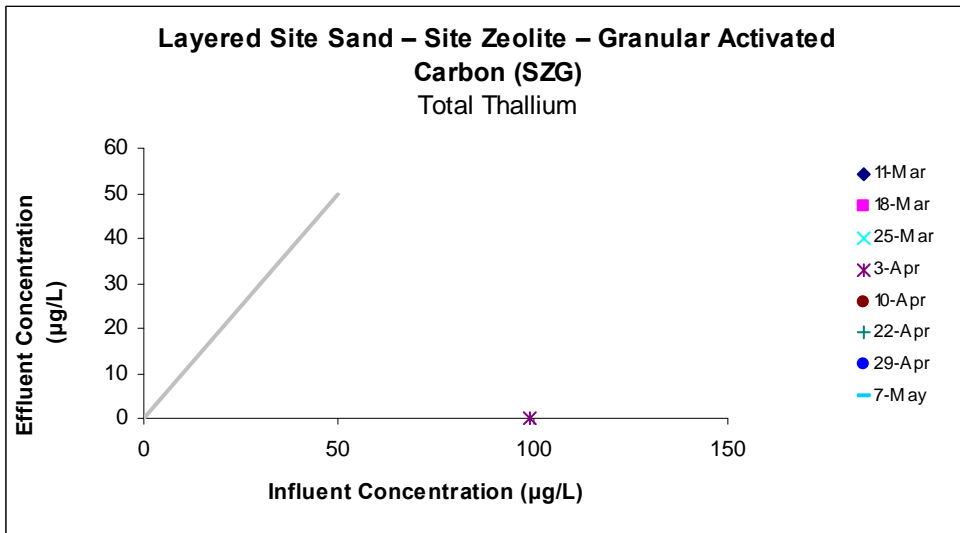
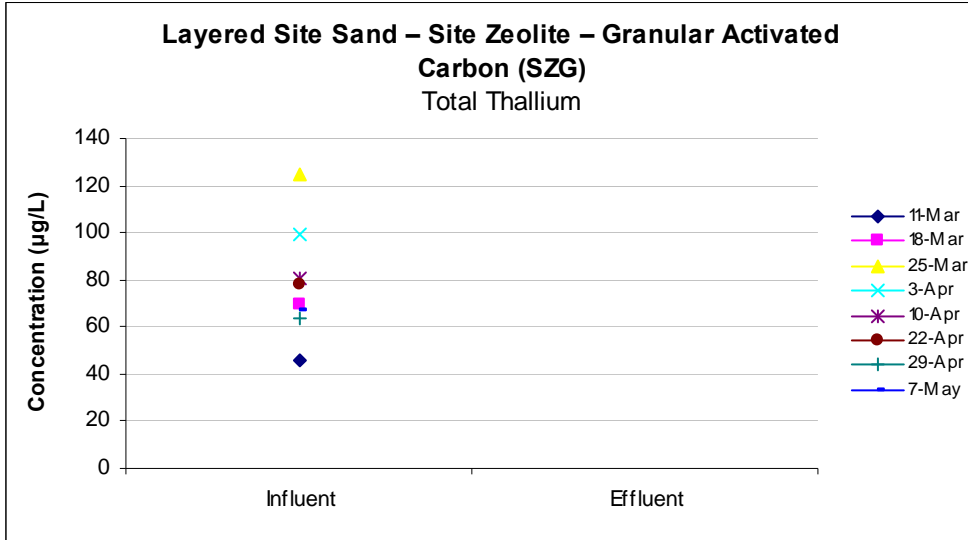
## RESIDUAL OUTPUT

<i>Observation</i>	<i>Predicted Y</i>	<i>Residuals</i>
1	4.627	2.373
2	3.983	0.017
3	3.983	-2.983
4	1.407	0.593

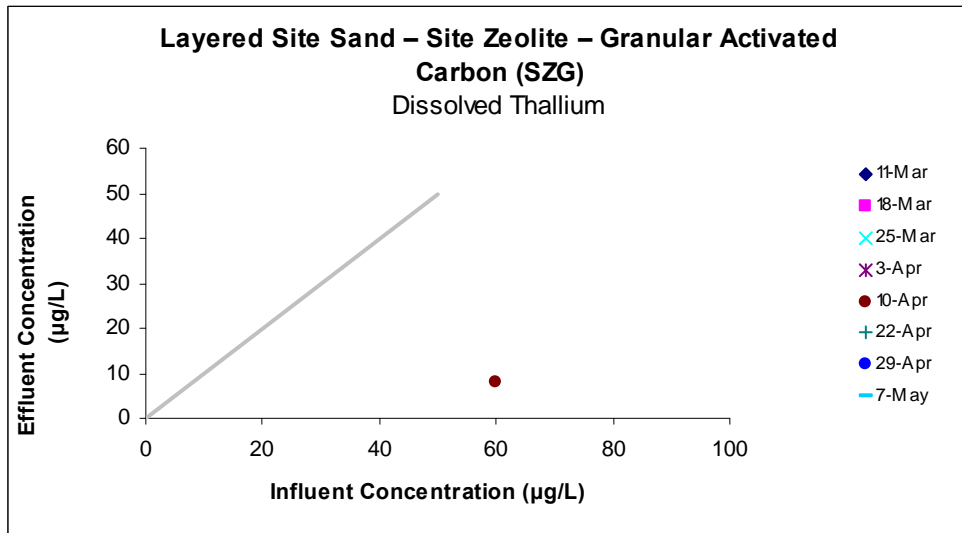
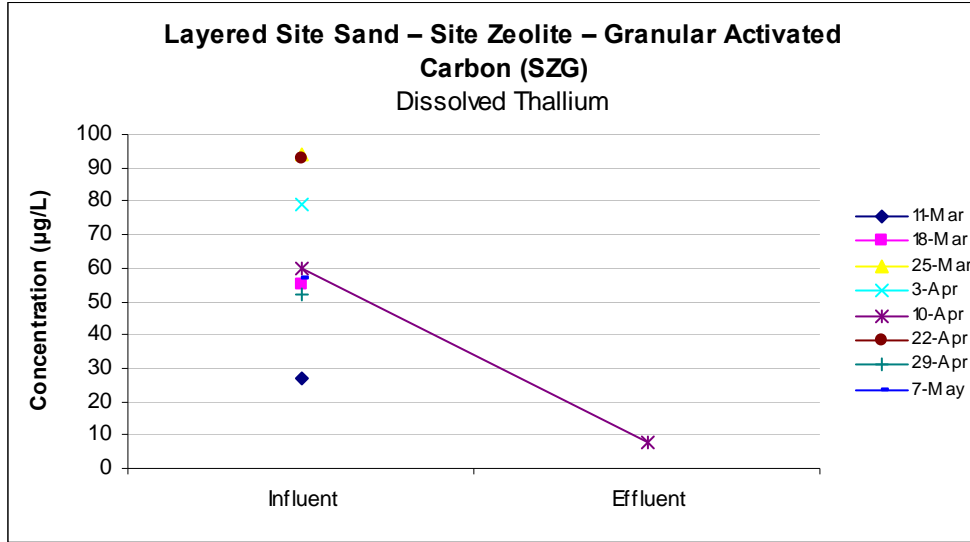




Total Tl



Dissolved Tl



# Total Sb

MWH Sand-GAC-MWH Zeolite Layered

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.947
R Square	0.897
Adjusted R Square	0.754
Standard Error	13.363
Observations	8.000

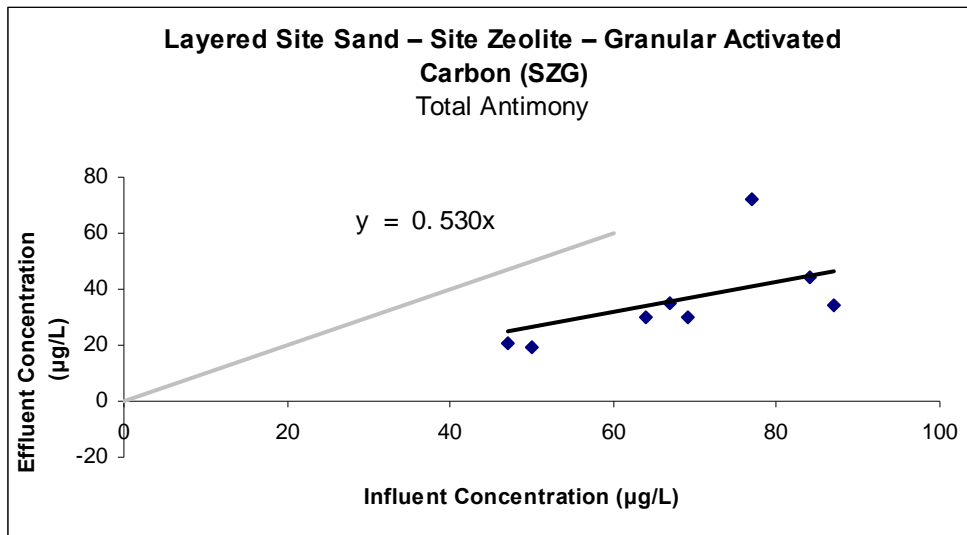
## ANOVA

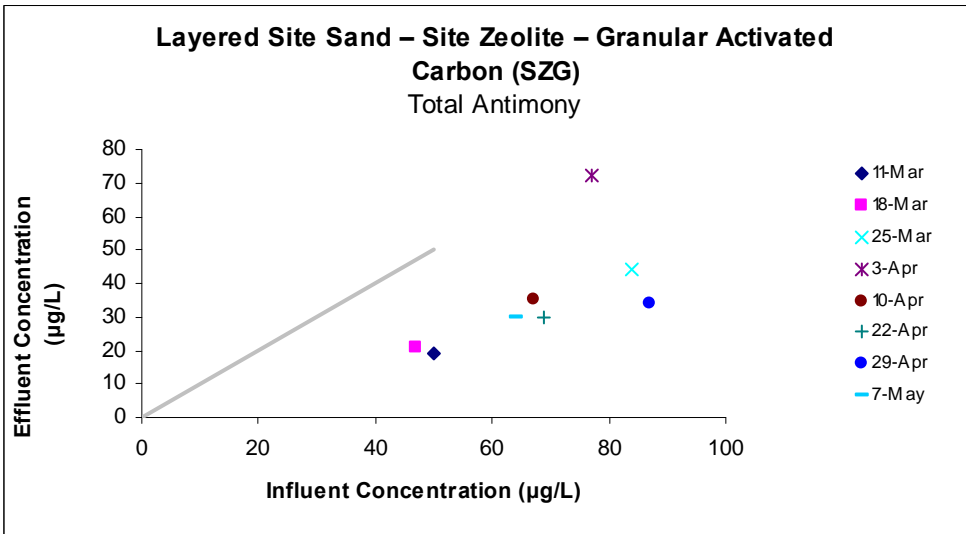
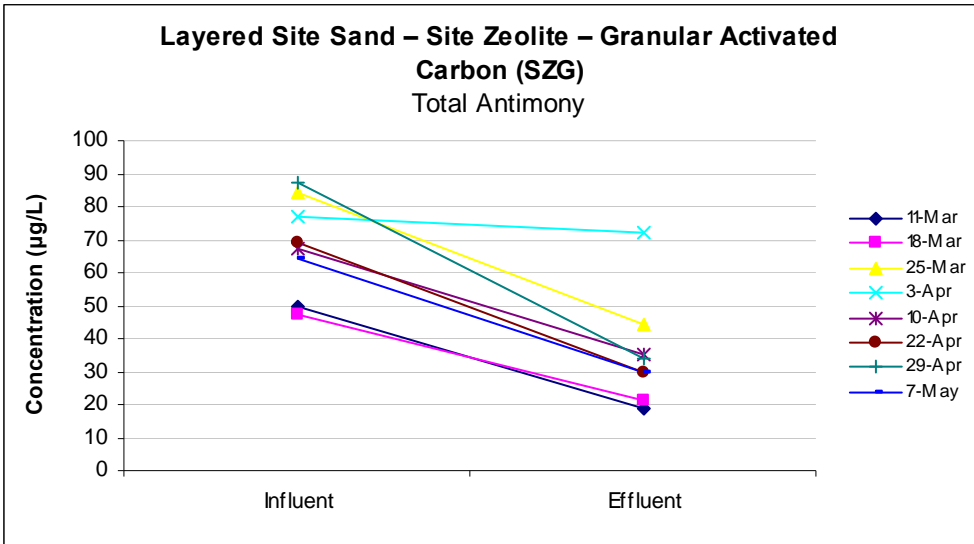
	df	SS	MS	F	Significance F
Regression	1.000	10852.933	10852.933	60.773	0.000
Residual	7.000	1250.067	178.581		
Total	8.000	12103.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	0.530	0.068	7.796	0.000	0.369	0.691	0.369	0.691

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	26.509	-7.509
2	24.919	-3.919
3	44.536	-0.536
4	40.824	31.176
5	35.523	-0.523
6	36.583	-6.583
7	46.126	-12.126
8	33.932	-3.932





# Dissolved Sb

MWH Sand-GAC-MWH Zeolite Layered

## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.496
R Square	0.246
Adjusted R Square	0.120
Standard Error	12.908
Observations	8.000

ANOVA					
	df	SS	MS	F	Significance F
Regression	1.000	326.290	326.290	1.958	0.211
Residual	6.000	999.710	166.618		
Total	7.000	1326.000			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	7.750	18.266	0.424	0.686	-36.945	52.444	-36.945	52.444
X Variable 1	0.437	0.312	1.399	0.211	-0.327	1.201	-0.327	1.201

## RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	24.796	-5.796
2	26.108	-12.108
3	37.472	6.528
4	33.975	21.025
5	28.293	-0.293
6	45.340	-16.340
7	34.849	8.151
8	29.167	-1.167

