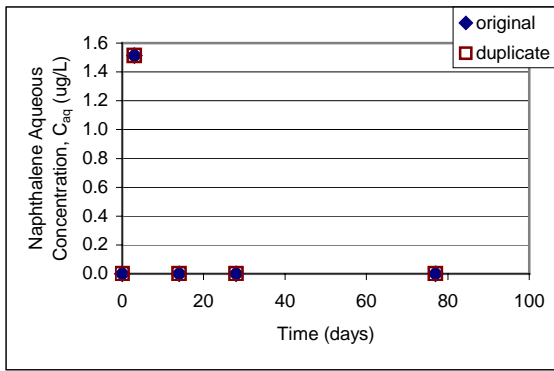
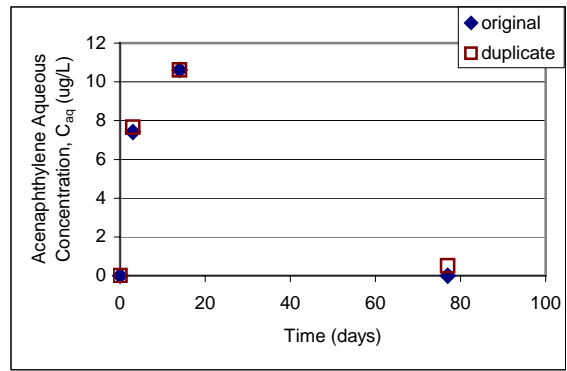


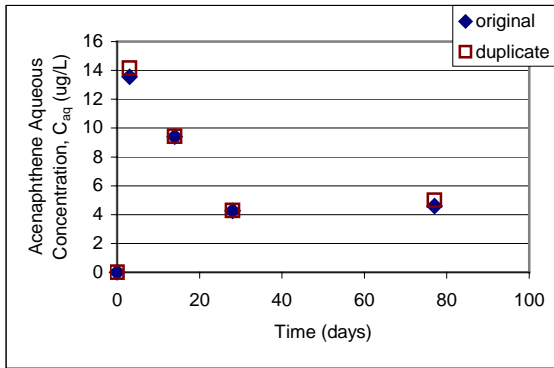
APPENDIX A
DESORPTION EQUILIBRIUM EXPERIMENT RESULTS



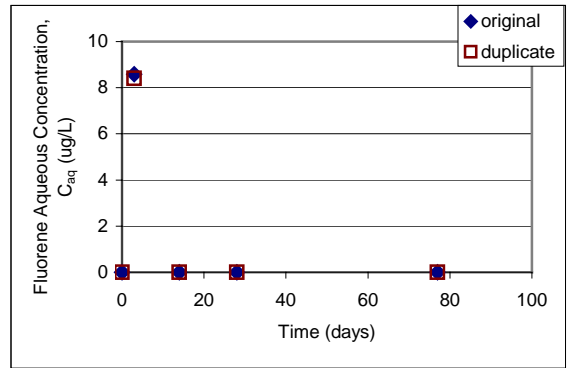
Naphthalene



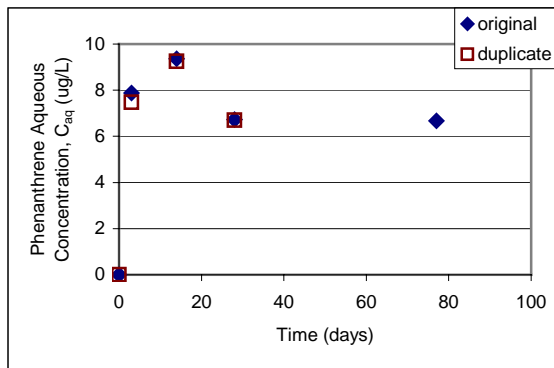
Acenaphthylene



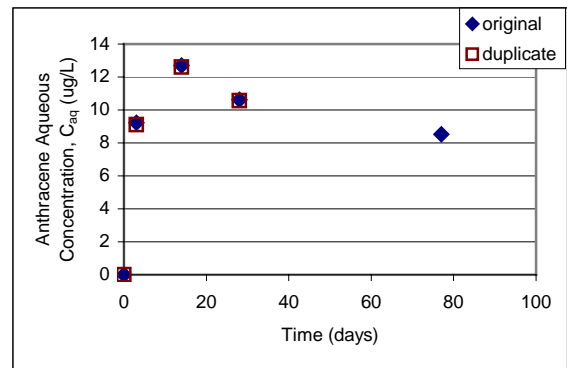
Acenaphthene



Fluorene

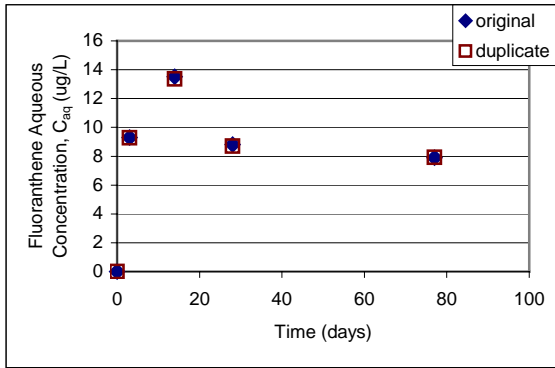


Phenanthrene

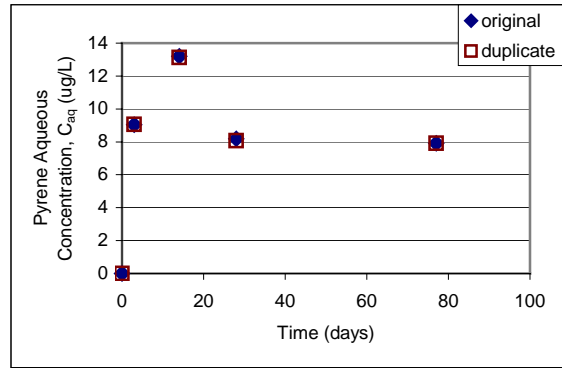


Anthracene

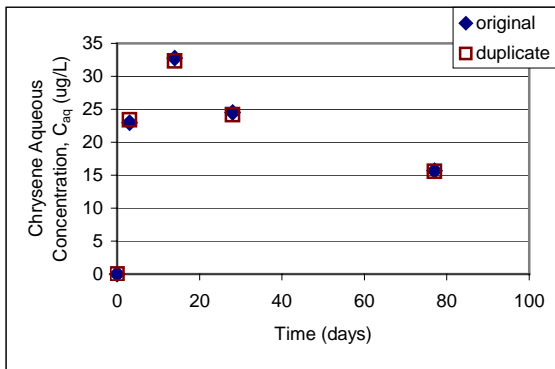
Figure 1A Desorption equilibrium experiment aqueous concentration versus time at SB-10 5 feet below land surface



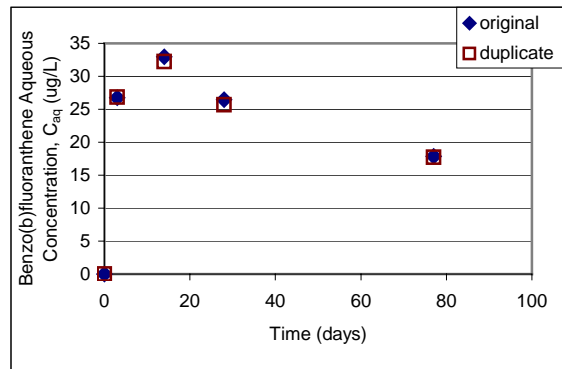
Fluoranthene



Pyrene

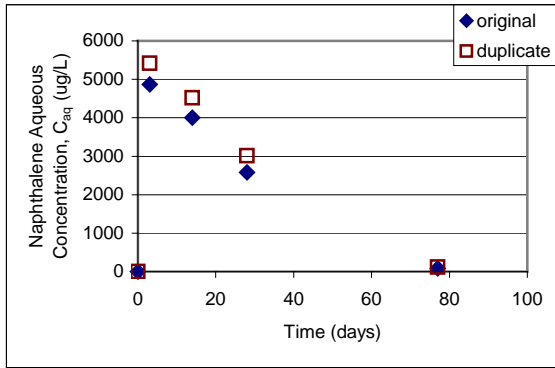


Chrysene

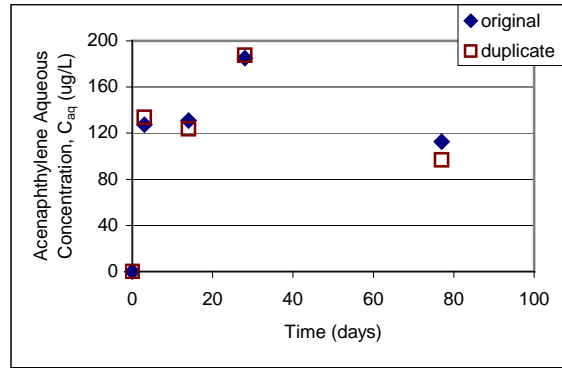


Benzo(b)fluoranthene

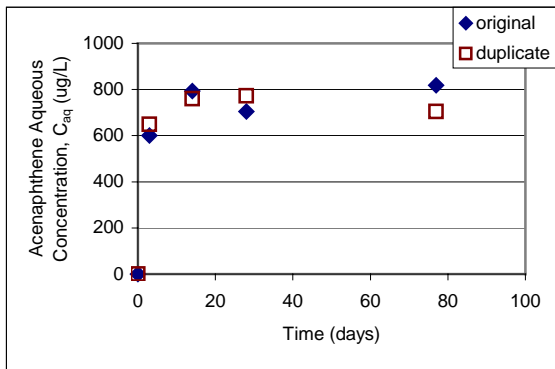
**Figure 2A Desorption equilibrium experiment
aqueous concentration versus time at SB-10
5 feet below land surface**



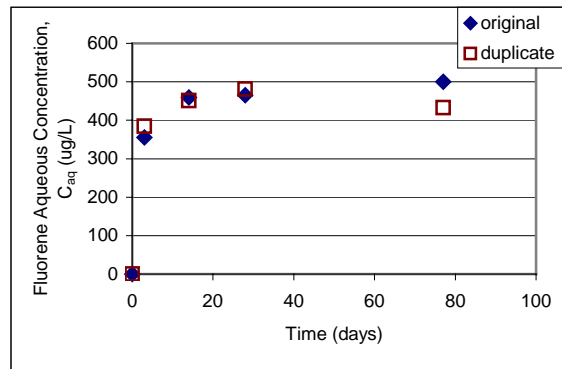
Naphthalene



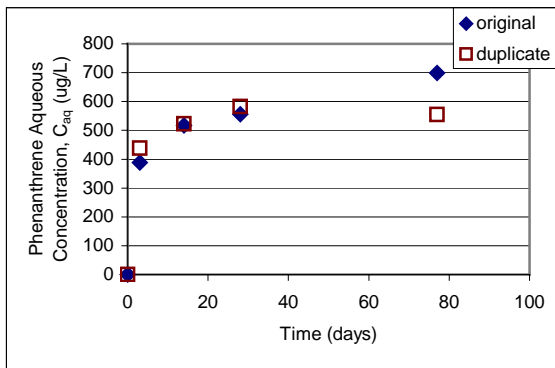
Acenaphthylene



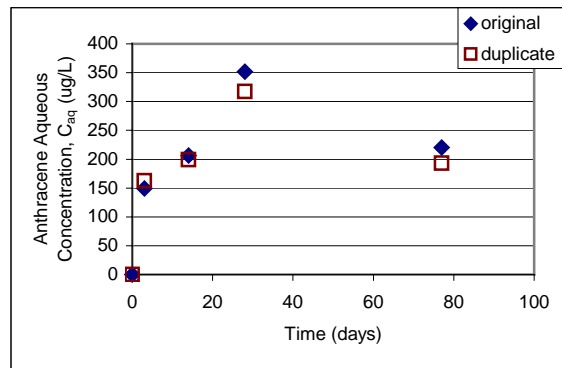
Acenaphthene



Fluorene

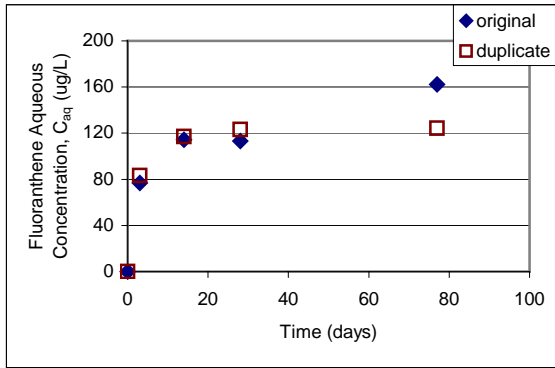


Phenanthrene

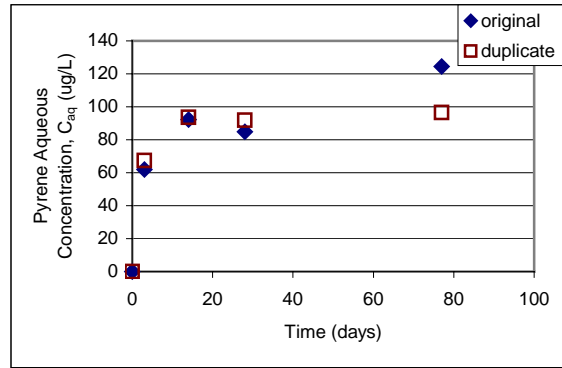


Anthracene

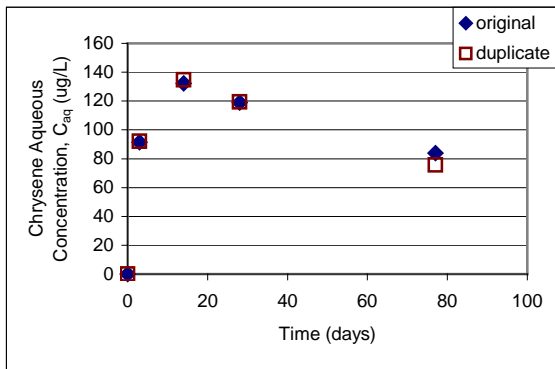
Figure 3A Desorption equilibrium experiment aqueous concentration versus time at SB-10 6 feet below land surface



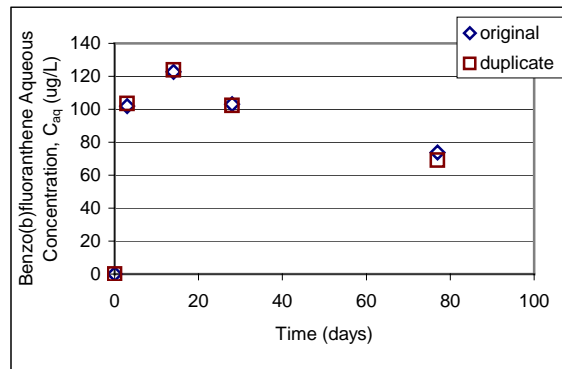
Fluoranthene



Pyrene

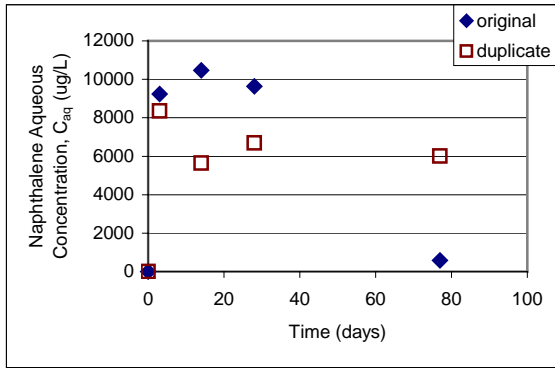


Chrysene

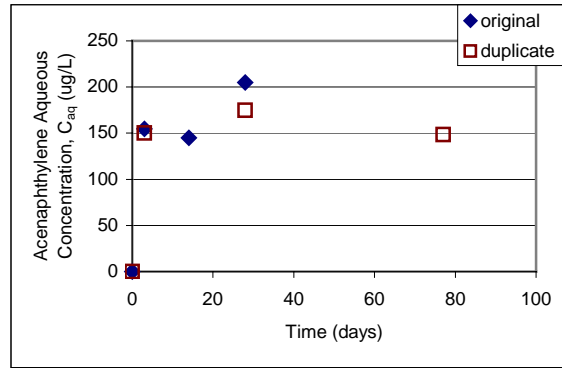


Benzo(b)fluoranthene

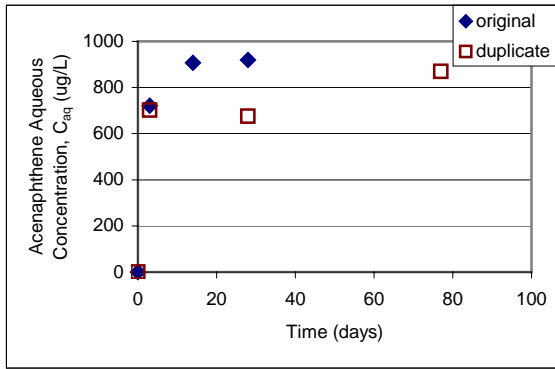
**Figure 4A Desorption equilibrium experiment
aqueous concentration versus time at SB-10
6 feet below land surface**



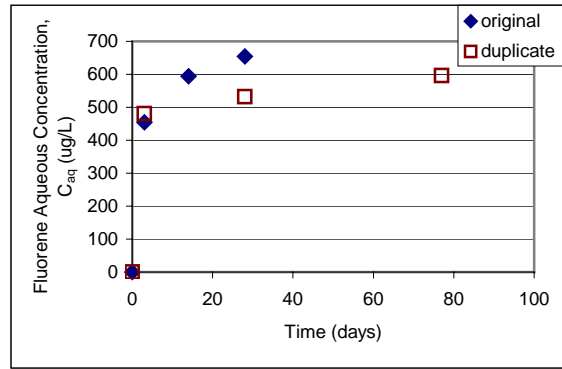
Naphthalene



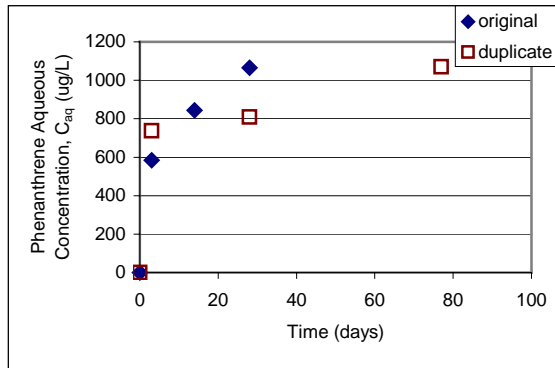
Acenaphthylene



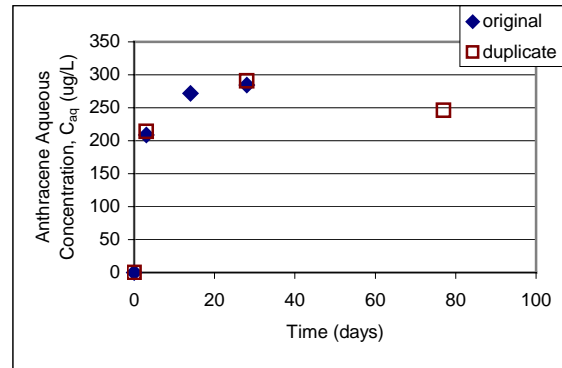
Acenaphthene



Fluorene

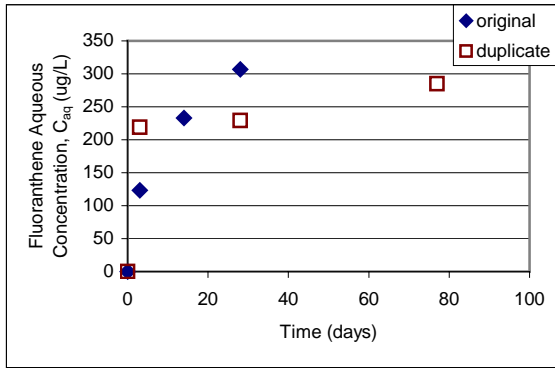


Phenanthrene

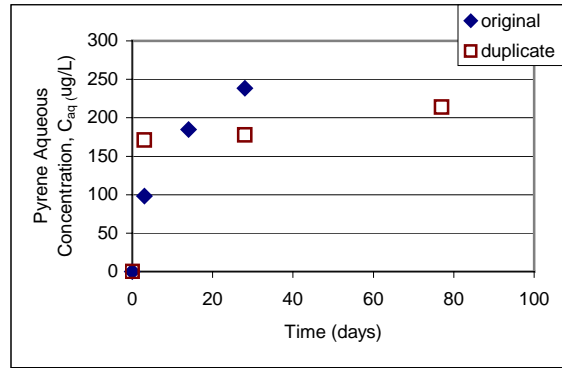


Anthracene

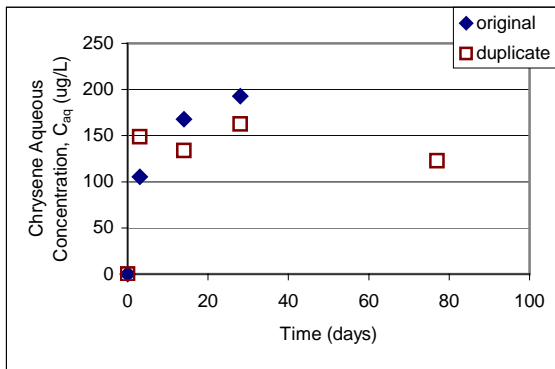
**Figure 5A Desorption equilibrium experiment
aqueous concentration versus time at SB-10
7 feet below land surface**



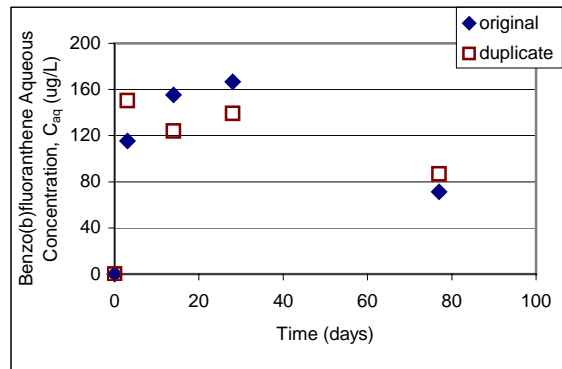
Fluoranthene



Pyrene

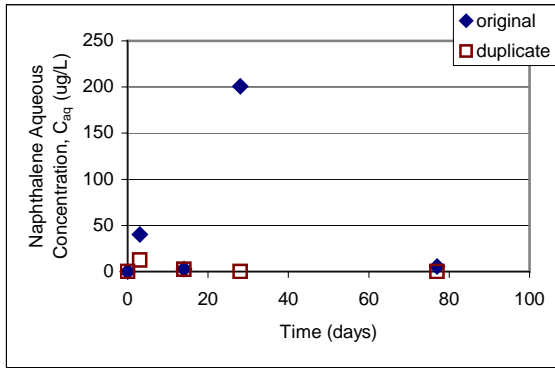


Chrysene

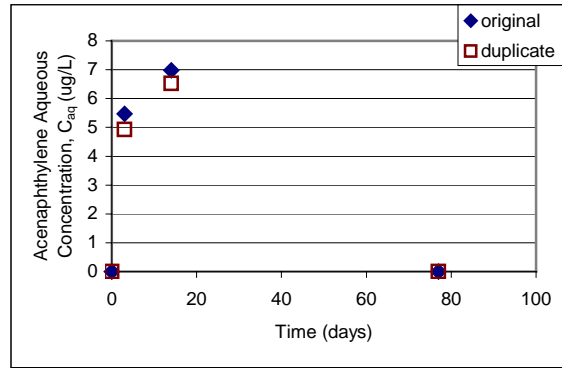


Benzo(b)fluoranthene

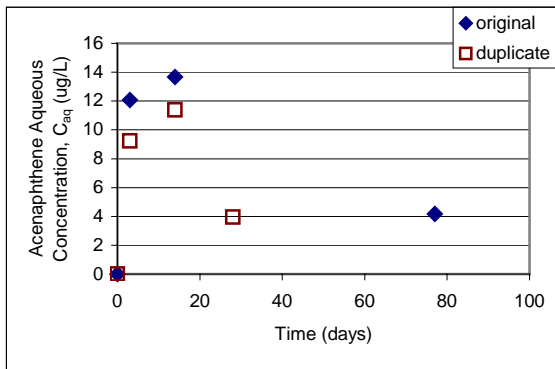
**Figure 6A Desorption equilibrium experiment
aqueous concentration versus time at SB-10
7 feet below land surface**



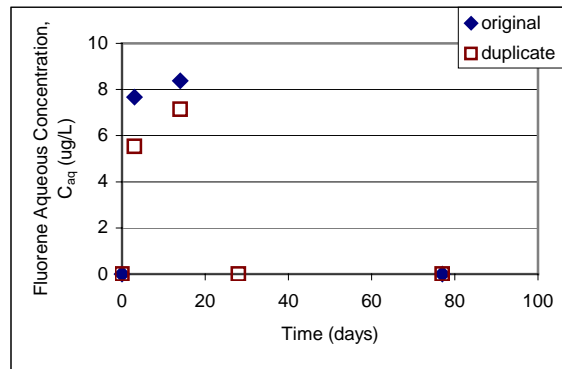
Naphthalene



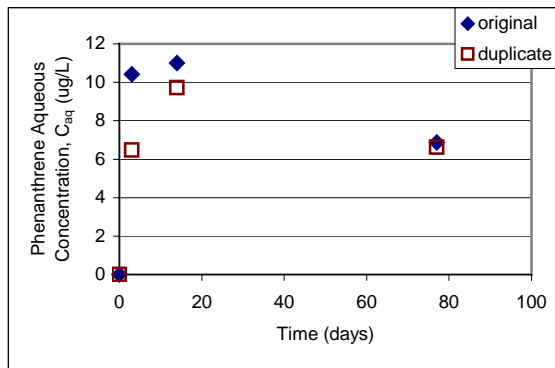
Acenaphthylene



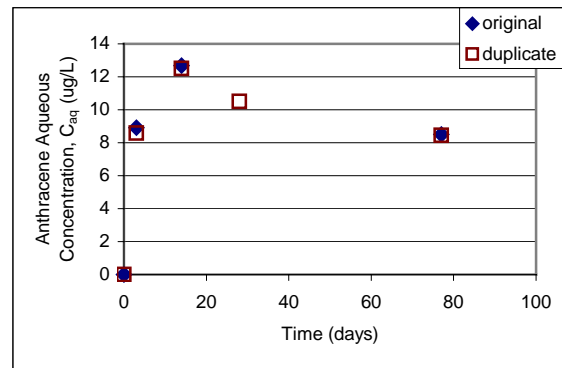
Acenaphthene



Fluorene

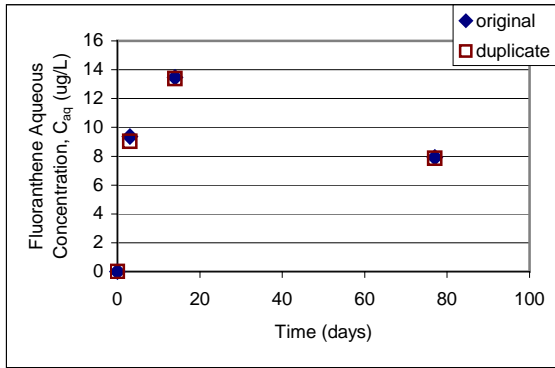


Phenanthrene

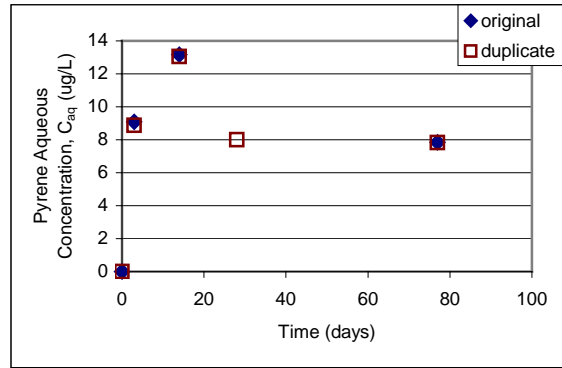


Anthracene

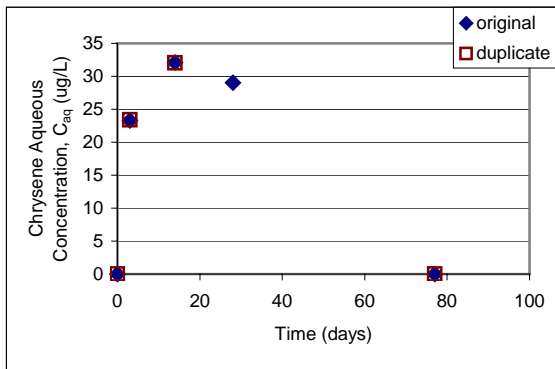
**Figure 7A Desorption equilibrium experiment
aqueous concentration versus time at SB-25
5 feet below land surface**



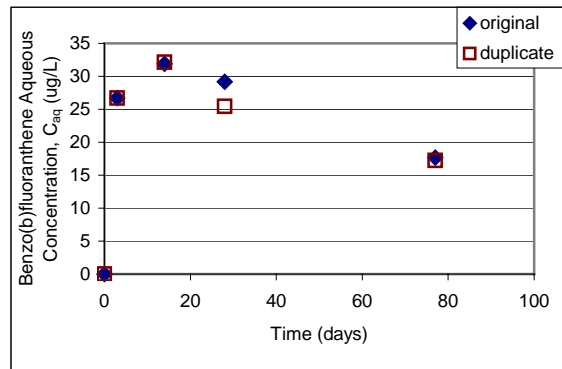
Fluoranthene



Pyrene

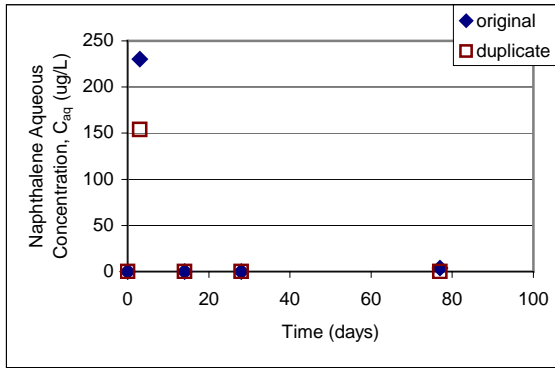


Chrysene

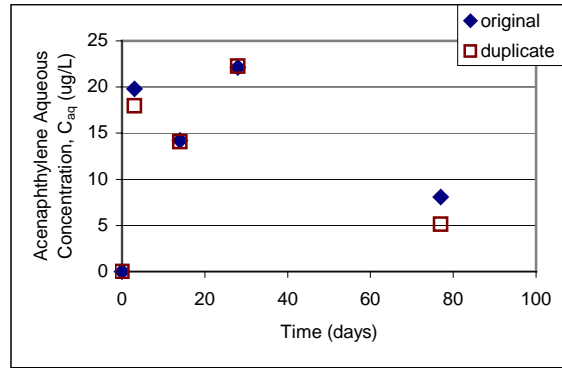


Benzo(b)fluoranthene

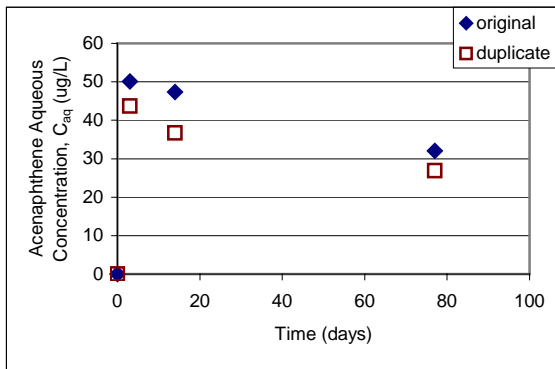
**Figure 8A Desorption equilibrium experiment
aqueous concentration versus time at SB-25
5 feet below land surface**



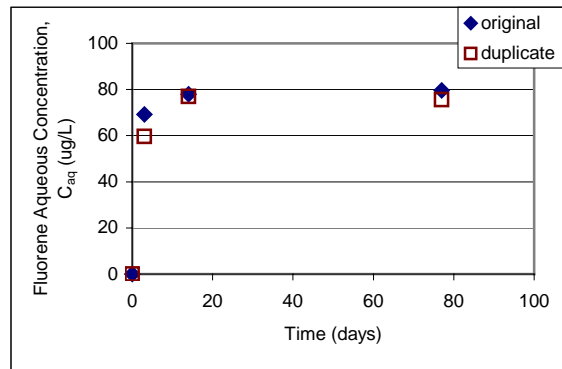
Naphthalene



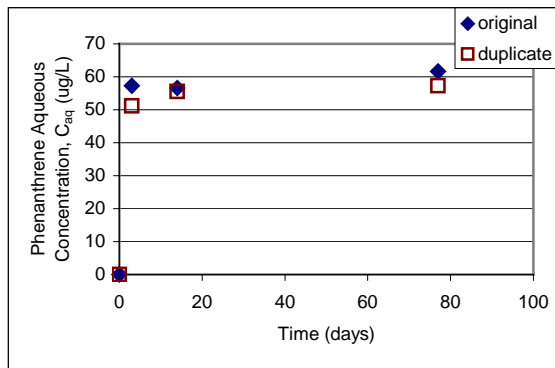
Acenaphthylene



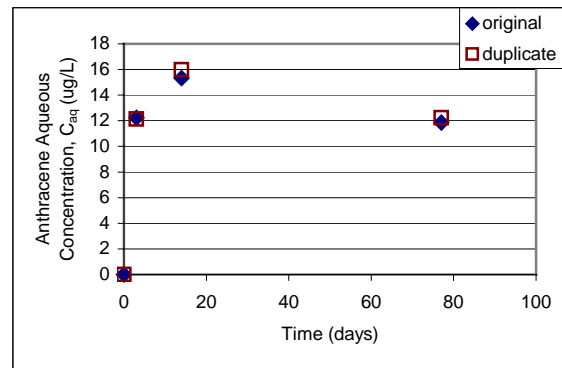
Acenaphthene



Fluorene

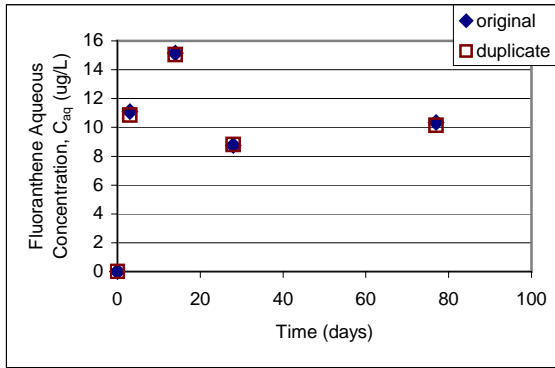


Phenanthrene

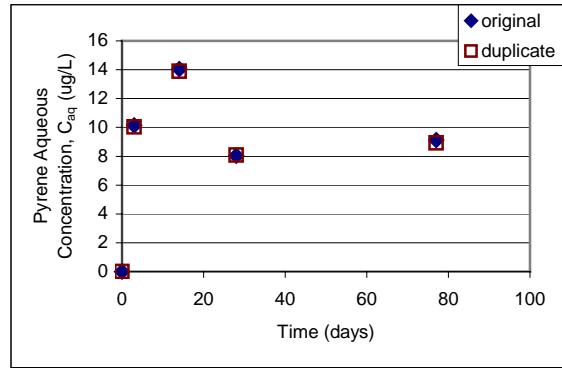


Anthracene

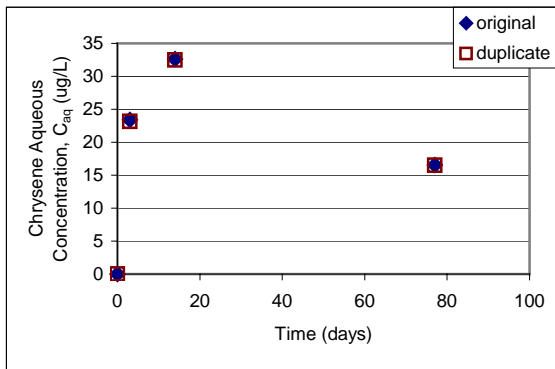
**Figure 9A Desorption equilibrium experiment
aqueous concentration versus time at SB-25
6 feet below land surface**



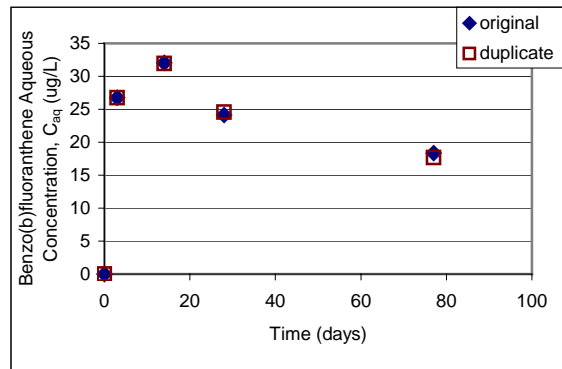
Fluoranthene



Pyrene

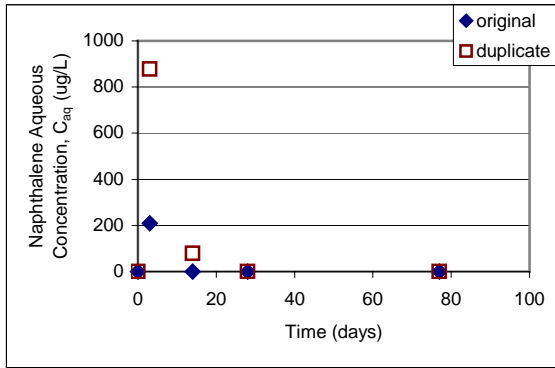


Chrysene

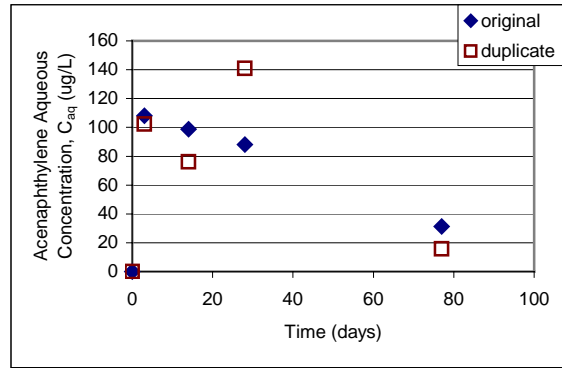


Benzo(b)fluoranthene

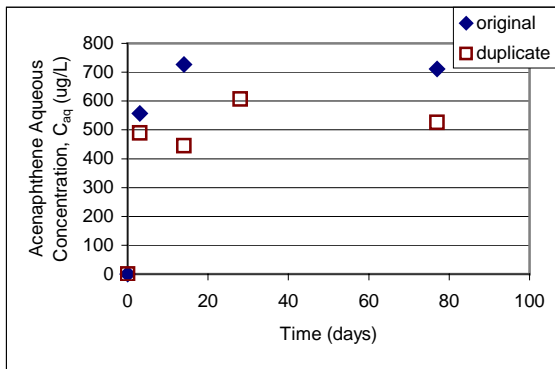
**Figure 10A Desorption equilibrium experiment
aqueous concentration versus time at SB-25
6 feet below land surface**



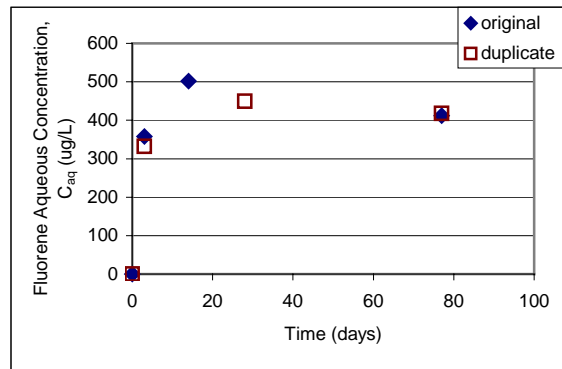
Naphthalene



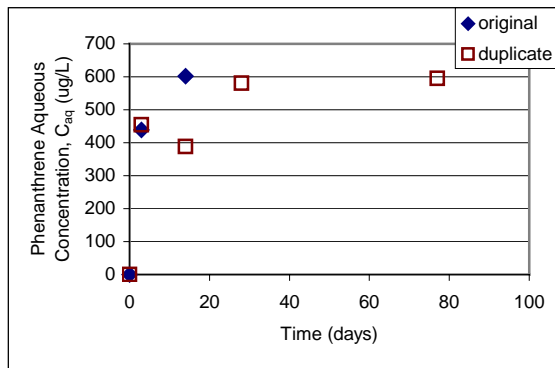
Acenaphthylene



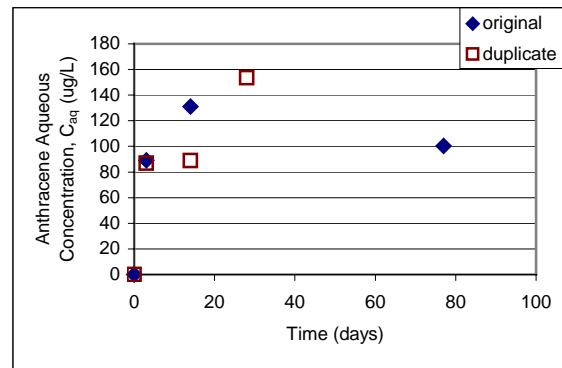
Acenaphthene



Fluorene

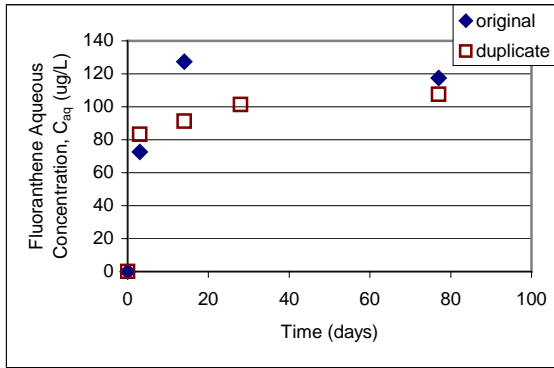


Phenanthrene

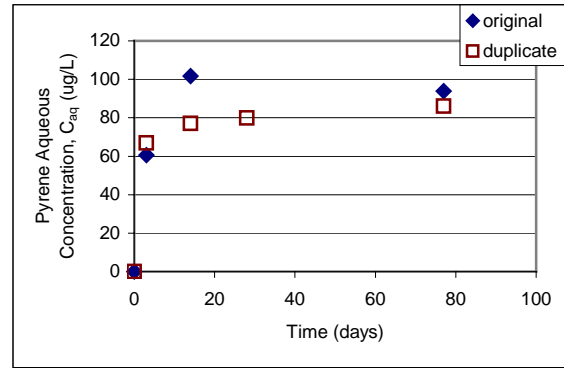


Anthracene

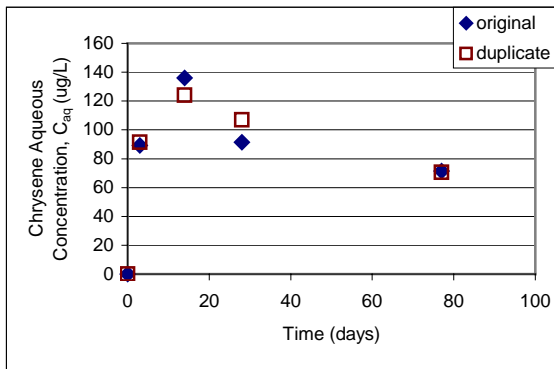
**Figure 11A Desorption equilibrium experiment
aqueous concentration versus time at SB-25
7 feet below land surface**



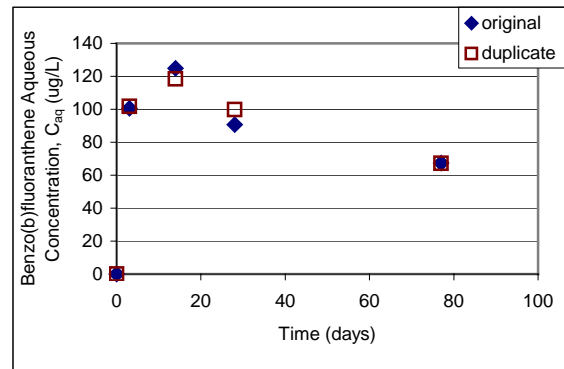
Fluoranthene



Pyrene

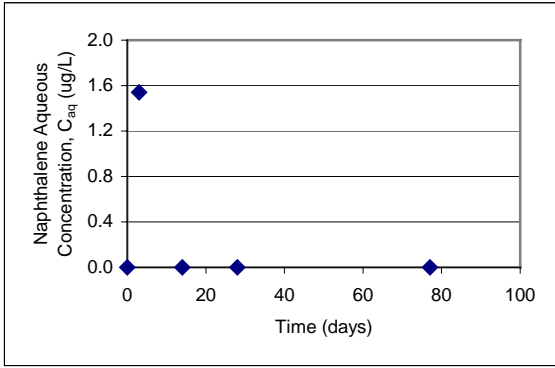


Chrysene

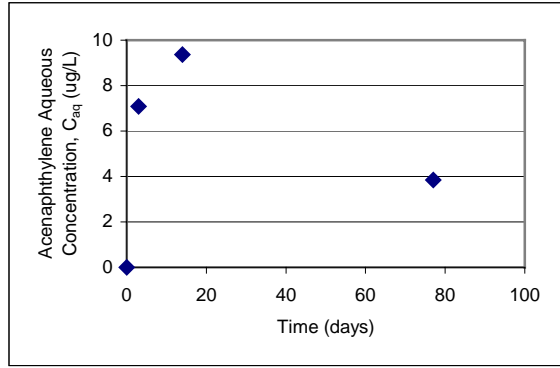


Benzo(b)fluoranthene

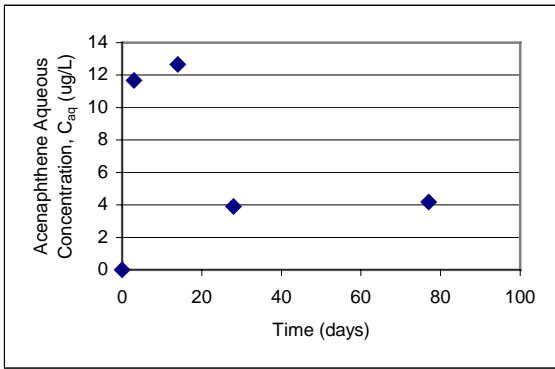
**Figure 12A Desorption equilibrium experiment
aqueous concentration versus time at SB-25
7 feet below land surface**



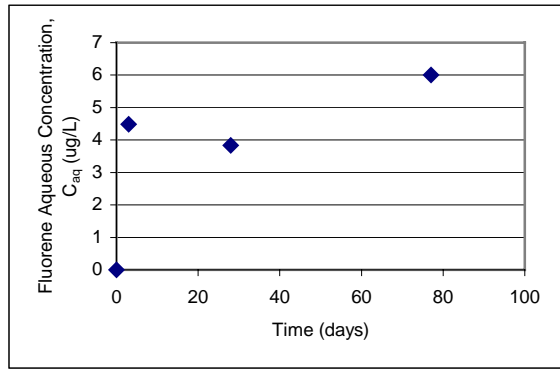
Naphthalene



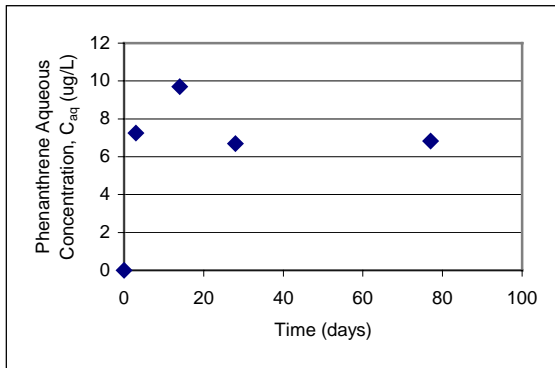
Acenaphthylene



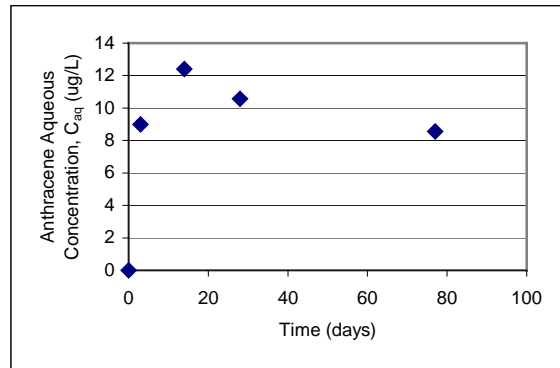
Acenaphthene



Fluorene

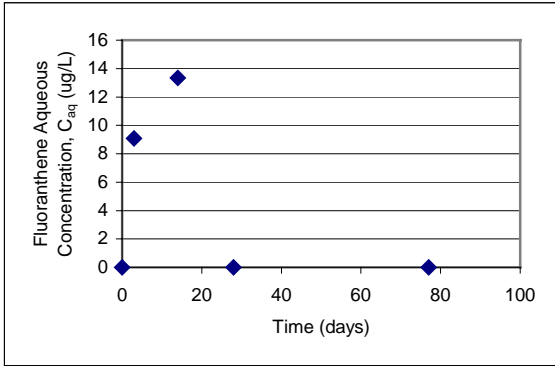


Phenanthrene

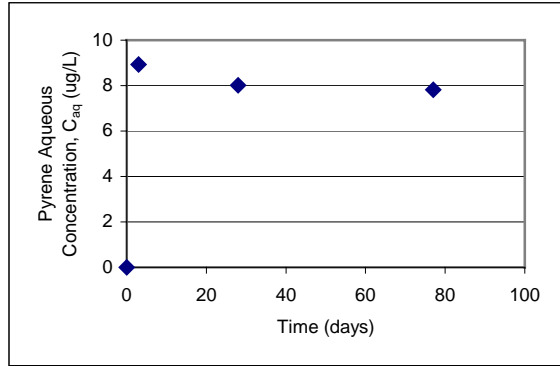


Anthracene

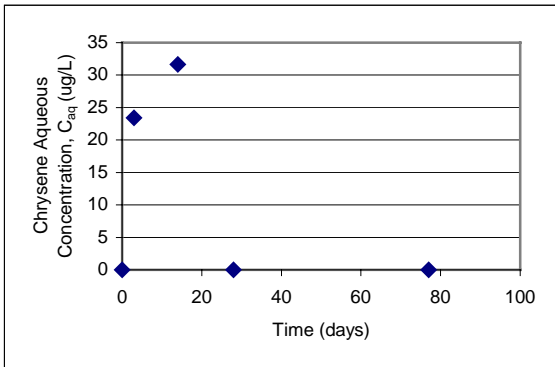
**Figure 13A Desorption equilibrium experiment
aqueous concentration versus time at SB-11
6 feet below land surface**



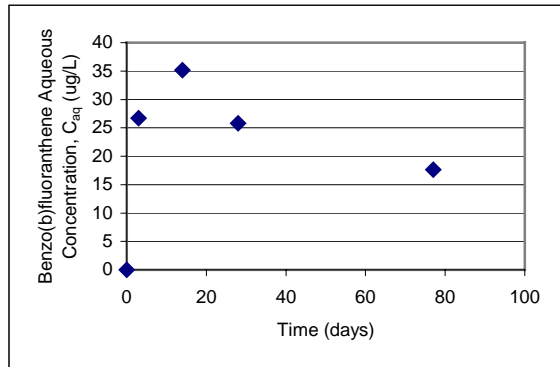
Fluoranthene



Pyrene

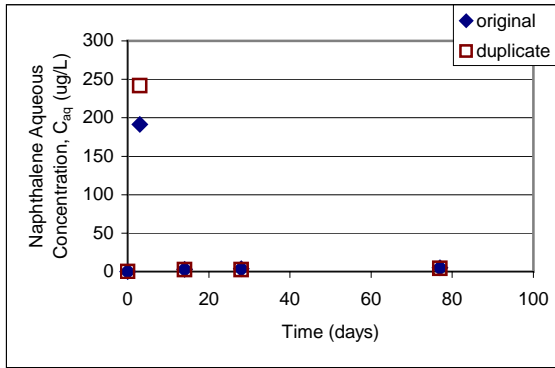


Chrysene

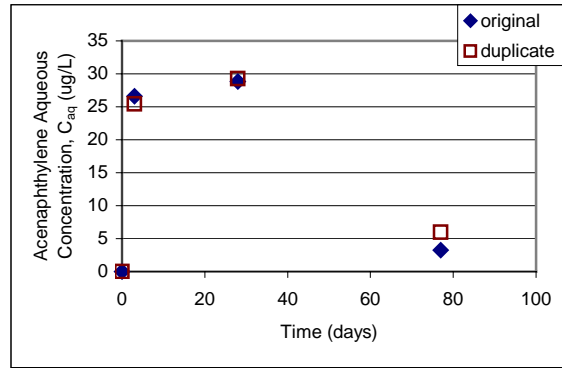


Benzo(b)fluoranthene

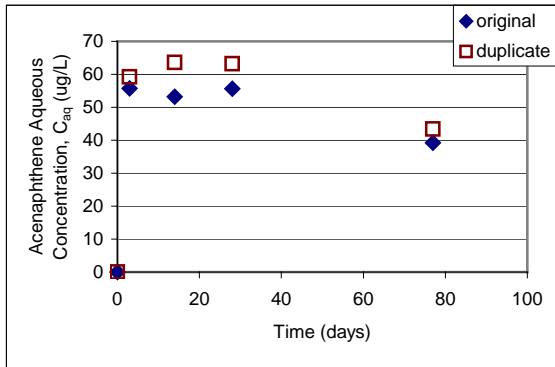
**Figure 14A Desorption equilibrium experiment
aqueous concentration versus time at SB-11
6 feet below land surface**



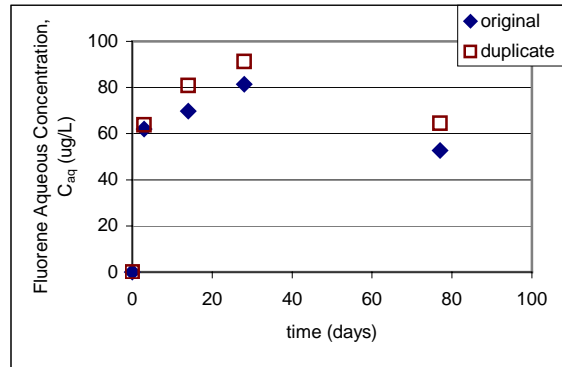
Naphthalene



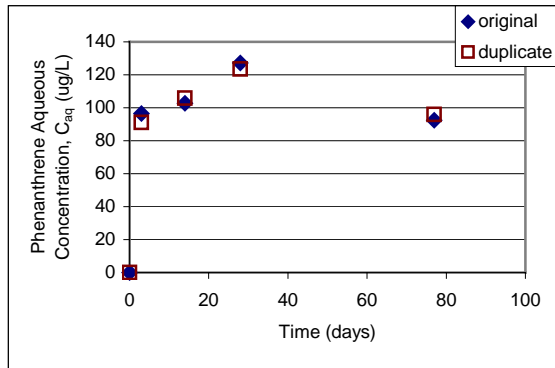
Acenaphthylene



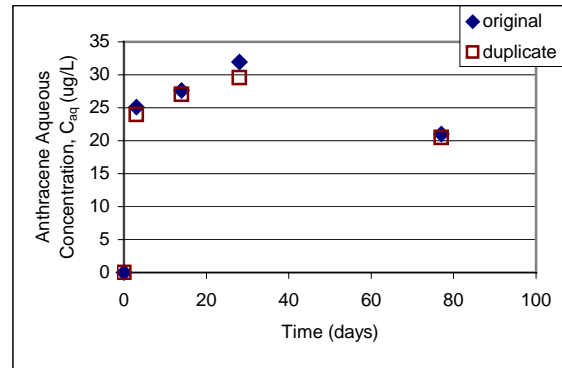
Acenaphthene



Fluorene

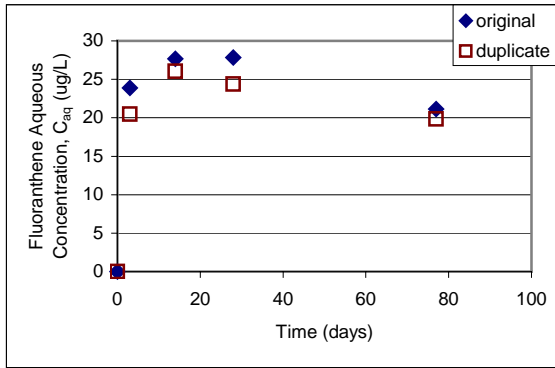


Phenanthrene

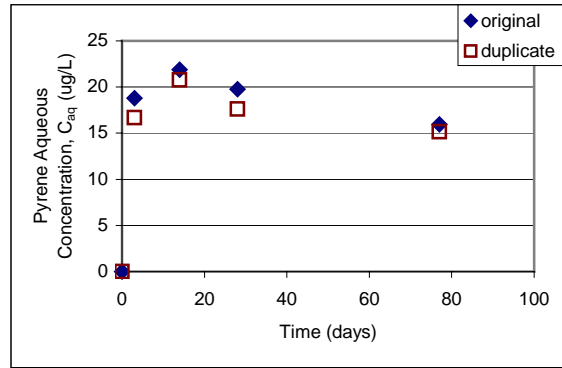


Anthracene

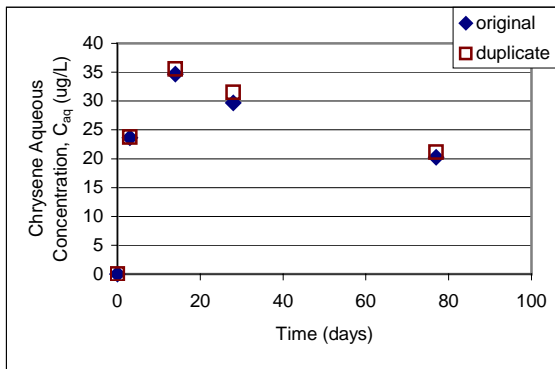
**Figure 15A Desorption equilibrium experiment
aqueous concentration versus time at SB-11
7 feet below land surface**



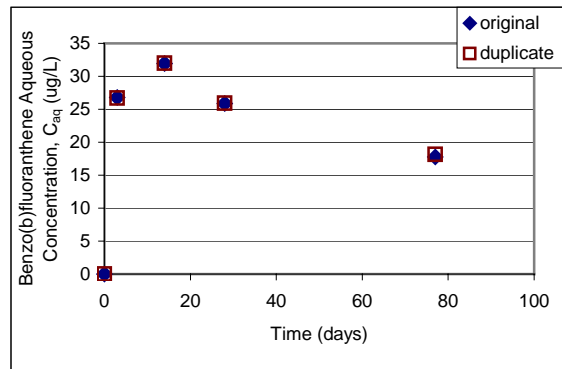
Fluoranthene



Pyrene

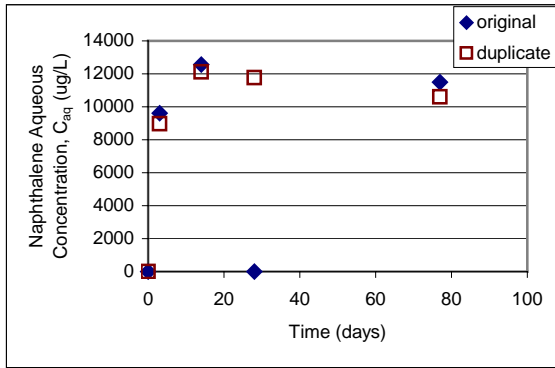


Chrysene

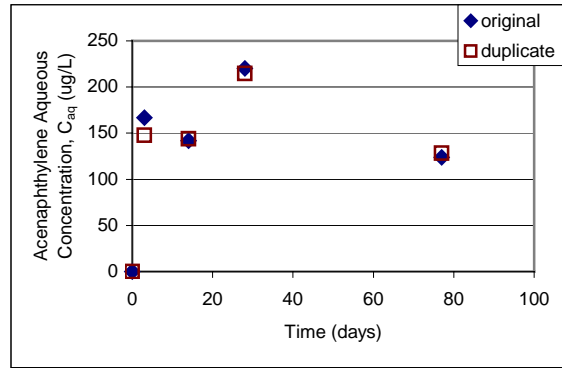


Benzo(b)fluoranthene

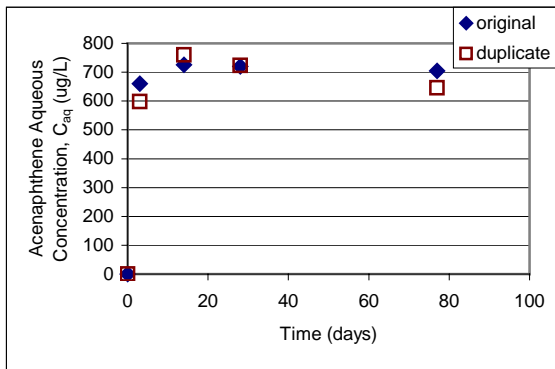
**Figure 16A Desorption equilibrium experiment
aqueous concentration versus time at SB-11
7 feet below land surface**



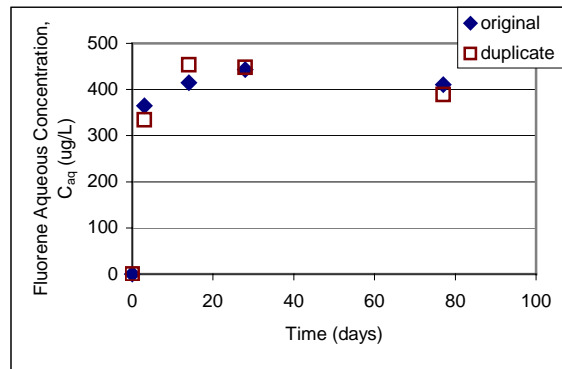
Naphthalene



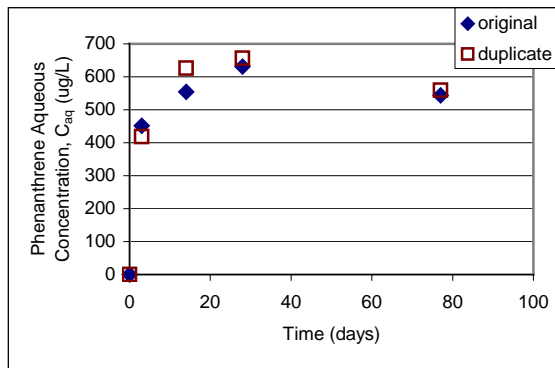
Acenaphthylene



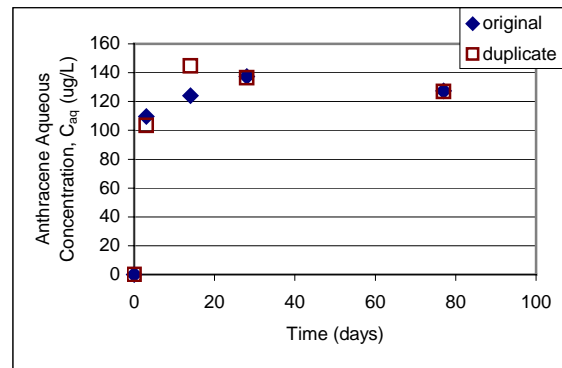
Acenaphthene



Fluorene

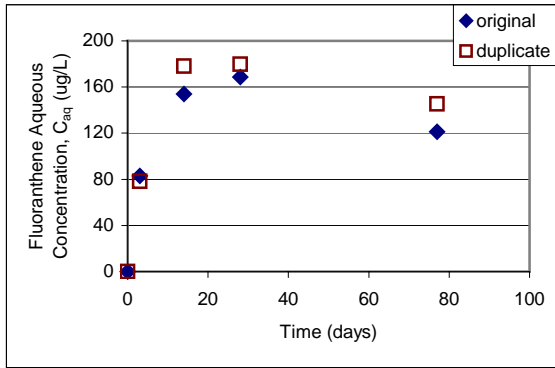


Phenanthrene

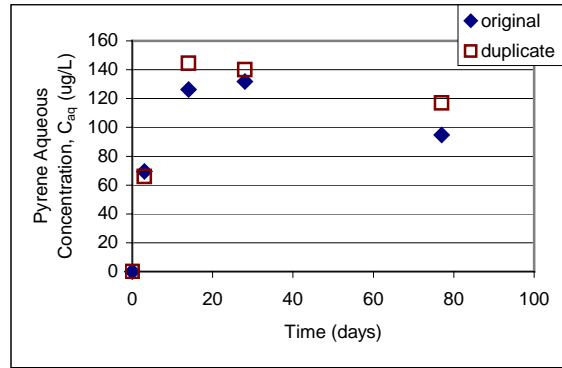


Anthracene

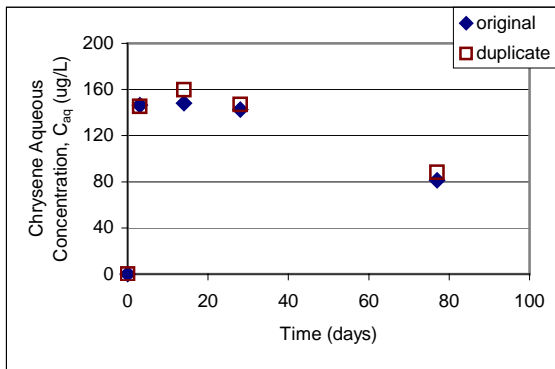
**Figure 17A Desorption equilibrium experiment
aqueous concentration versus time at SB-11
8 feet below land surface**



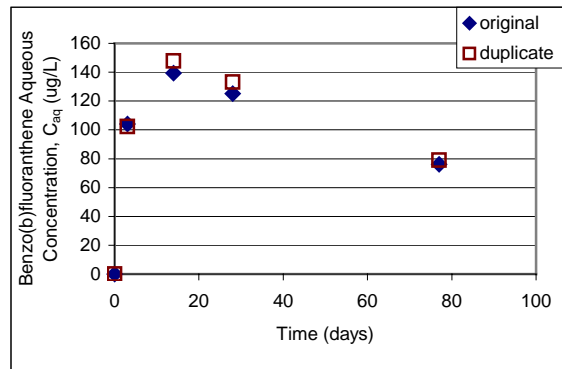
Fluoranthene



Pyrene

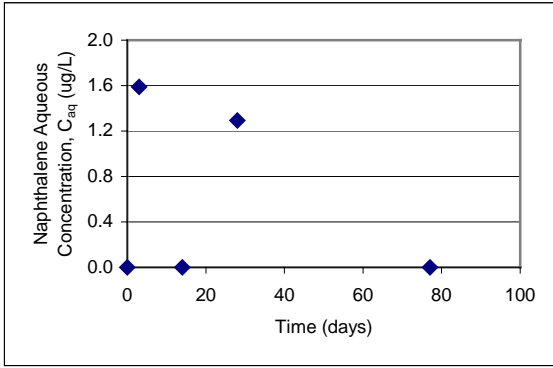


Chrysene

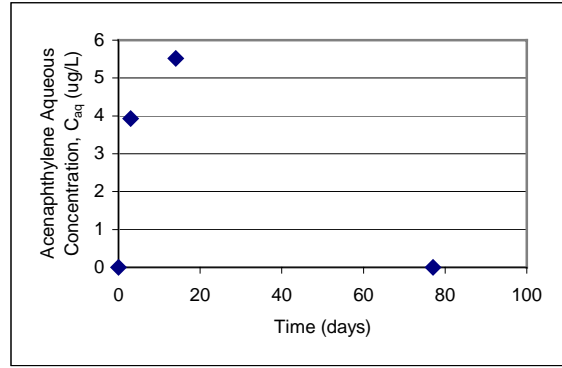


Benzo(b)fluoranthene

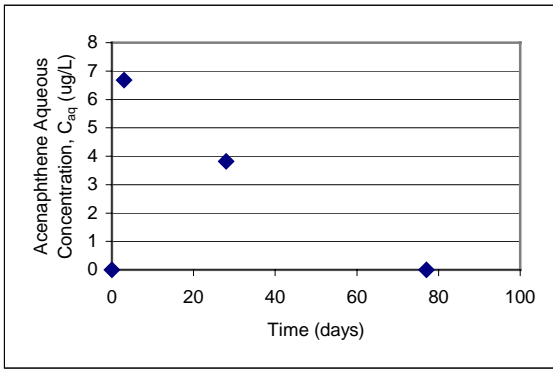
**Figure 18A Desorption equilibrium experiment
aqueous concentration versus time at SB-11
8 feet below land surface**



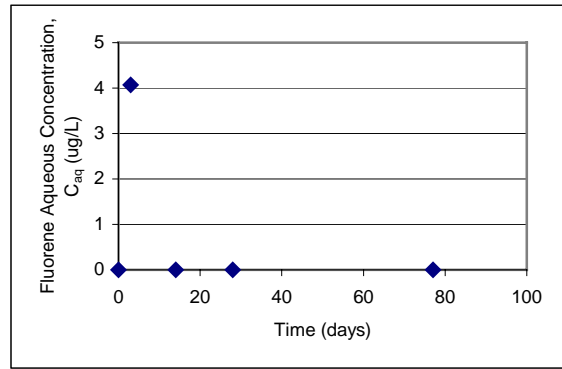
Naphthalene



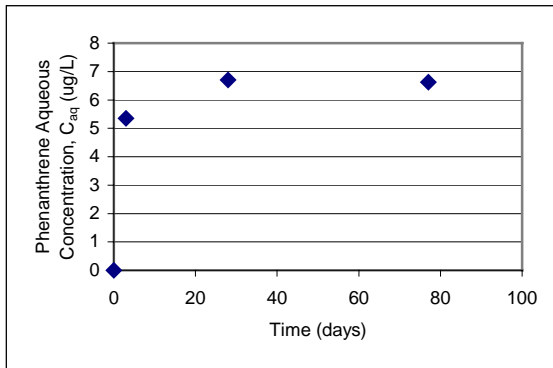
Acenaphthylene



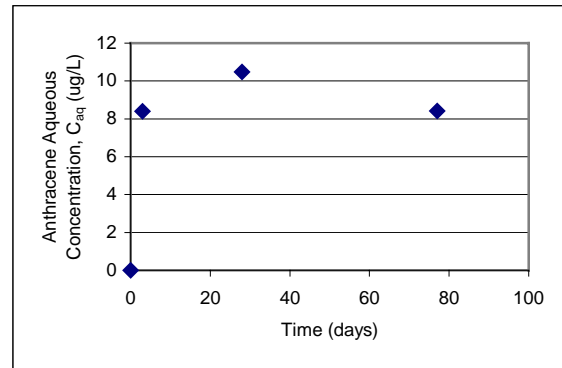
Acenaphthene



Fluorene

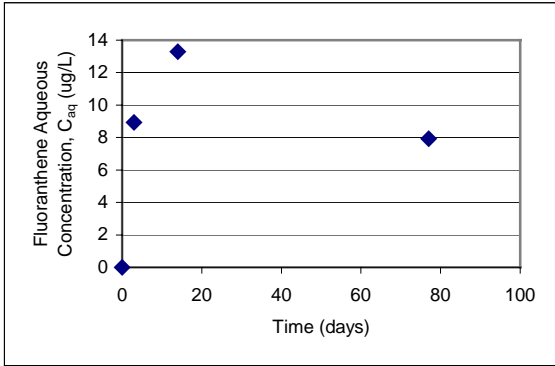


Phenanthrene

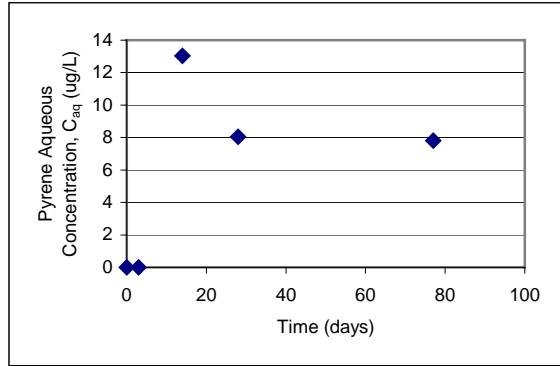


Anthracene

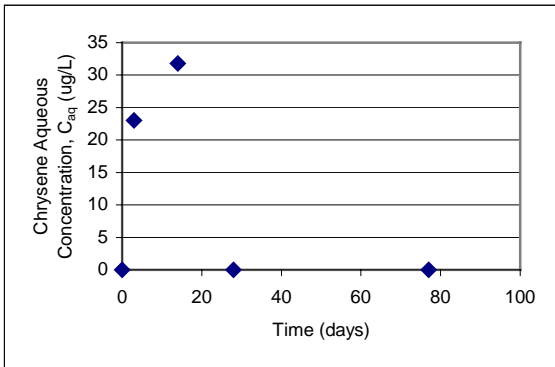
**Figure 19A Desorption equilibrium experiment
aqueous concentration versus time at SB-12
8 feet below land surface**



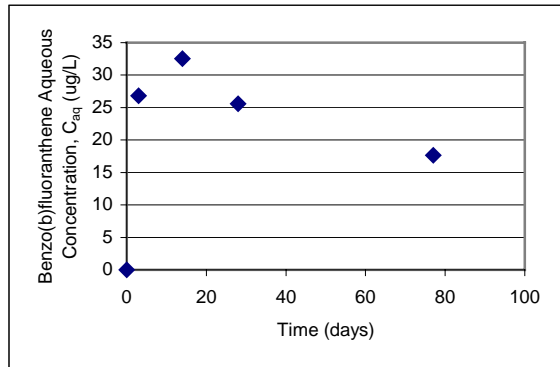
Fluoranthene



Pyrene

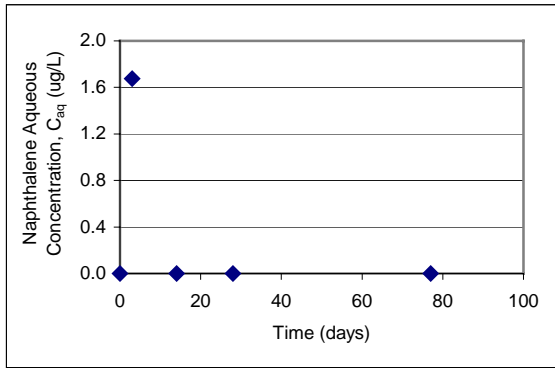


Chrysene

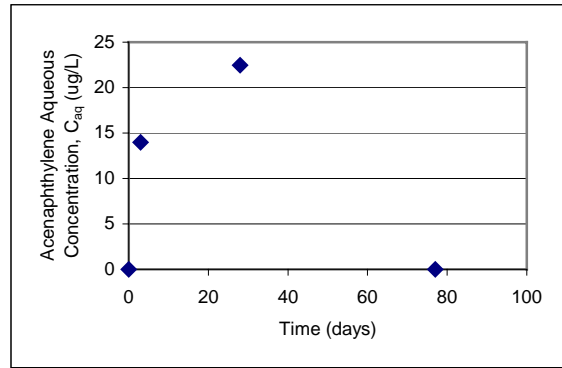


Benzo(b)fluoranthene

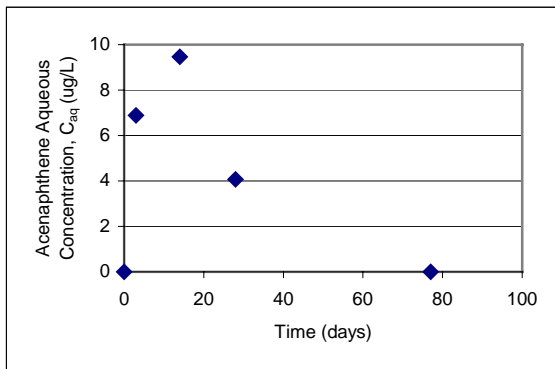
**Figure 20A Desorption equilibrium experiment
aqueous concentration versus time at SB-12
8 feet below land surface**



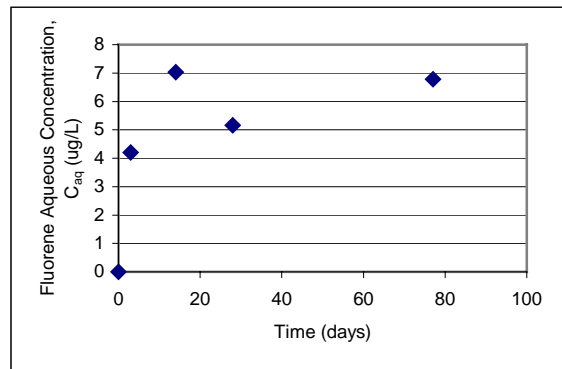
Naphthalene



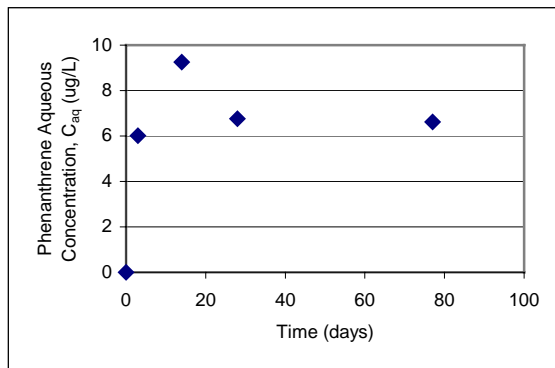
Acenaphthylene



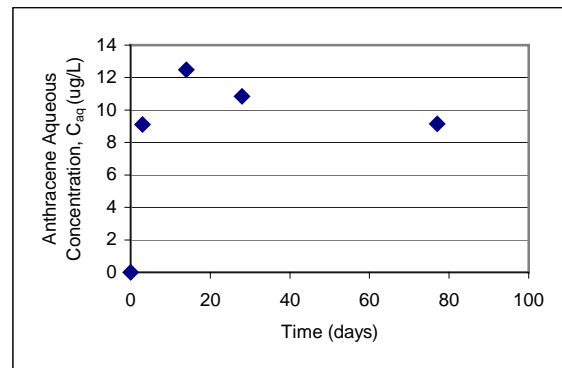
Acenaphthene



Fluorene

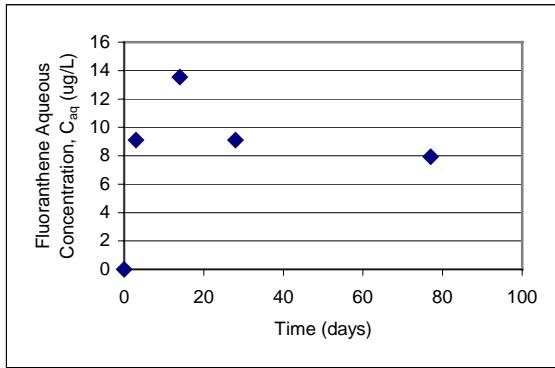


Phenanthrene

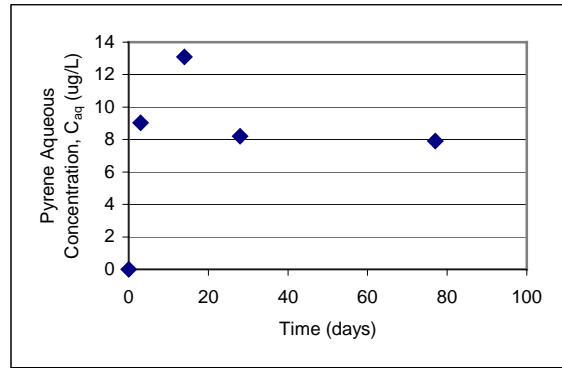


Anthracene

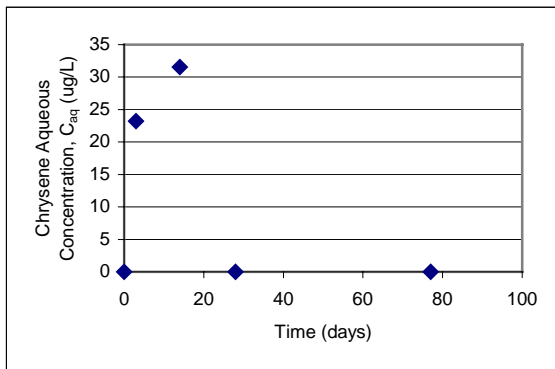
**Figure 21A Desorption equilibrium experiment
aqueous concentration versus time at SB-12
9 feet below land surface**



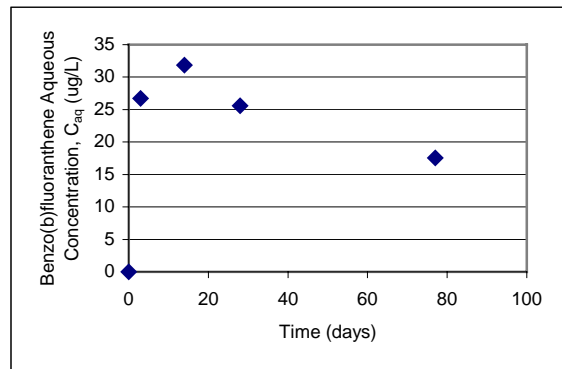
Fluoranthene



Pyrene

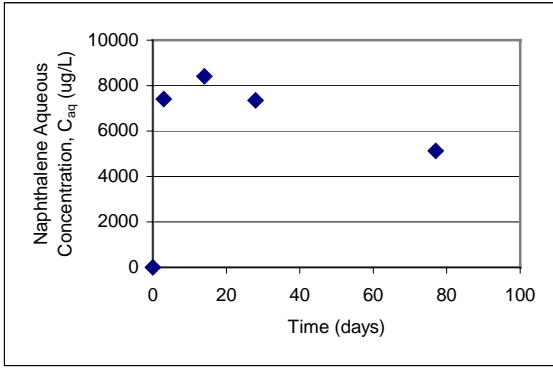


Chrysene

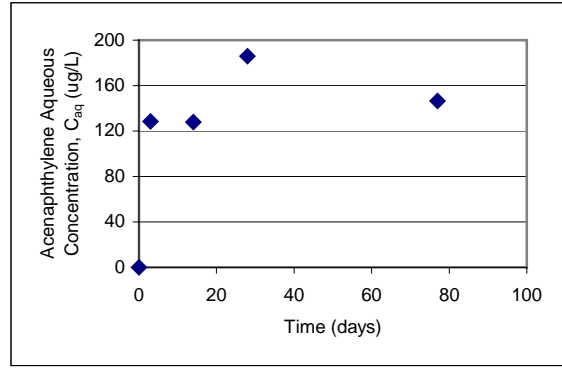


Benzo(b)fluoranthene

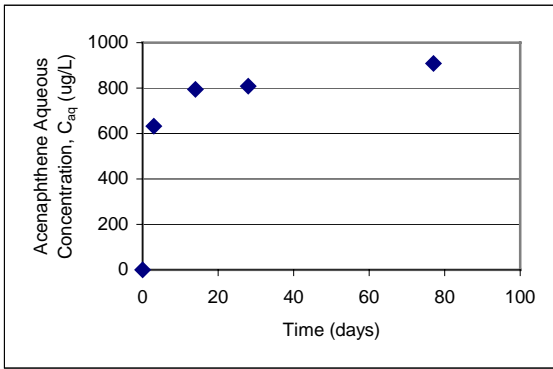
**Figure 22A Desorption equilibrium experiment
aqueous concentration versus time at SB-12
9 feet below land surface**



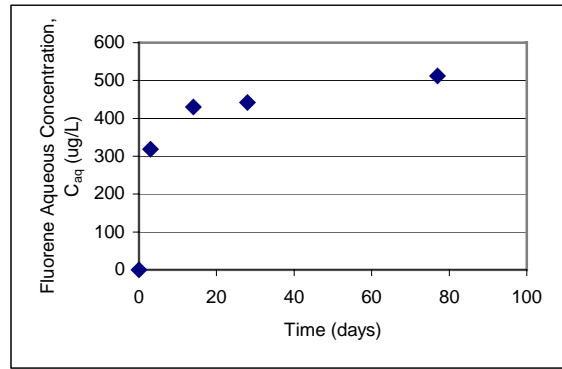
Naphthalene



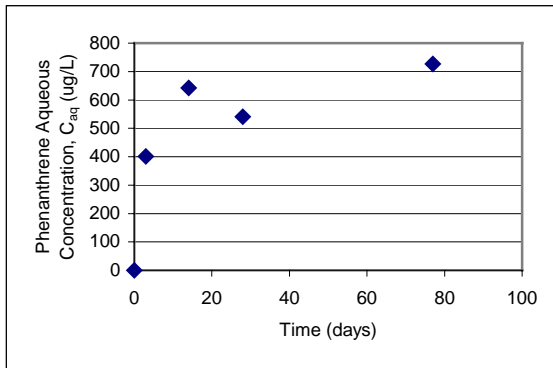
Acenaphthylene



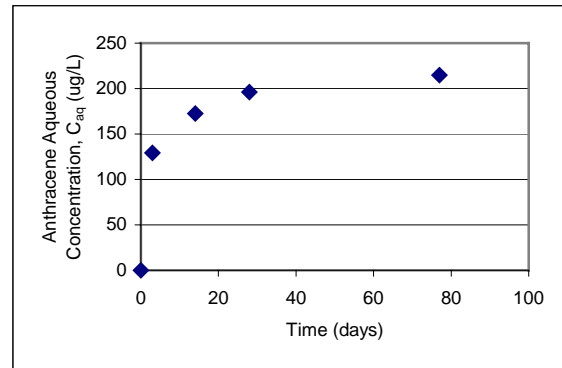
Acenaphthene



Fluorene

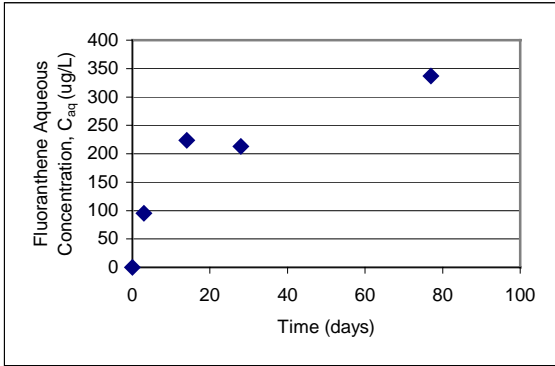


Phenanthrene

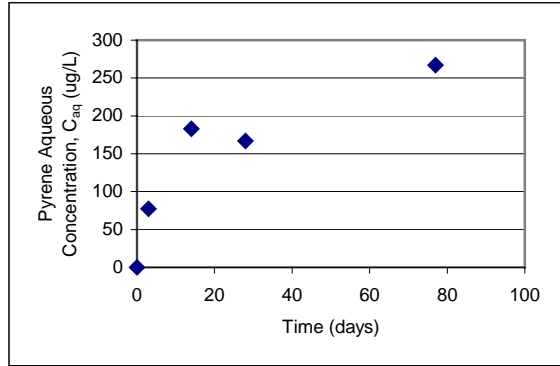


Anthracene

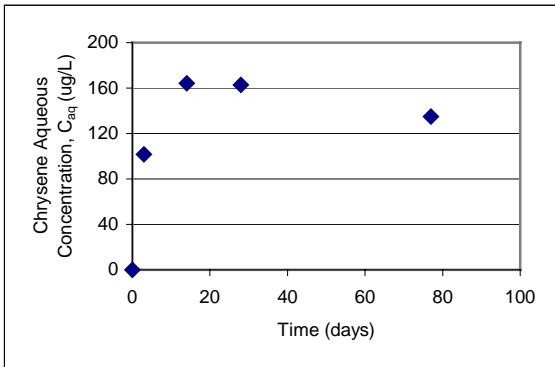
**Figure 23A Desorption equilibrium experiment
aqueous concentration versus time at SB-12
10 feet below land surface**



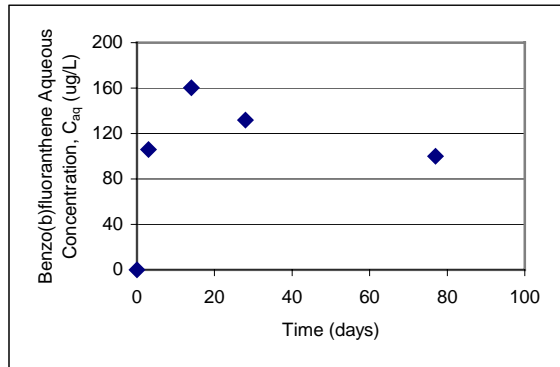
Fluoranthene



Pyrene

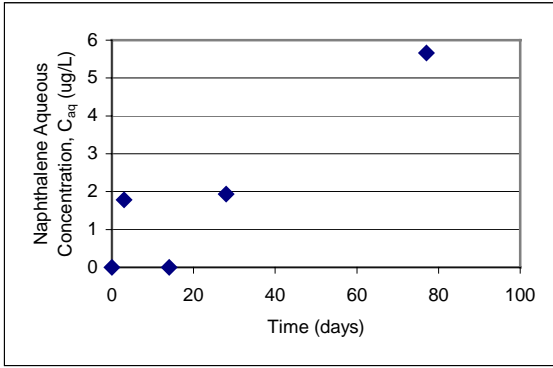


Chrysene

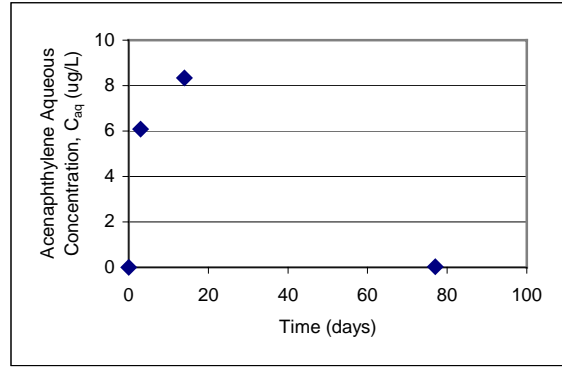


Benzo(b)fluoranthene

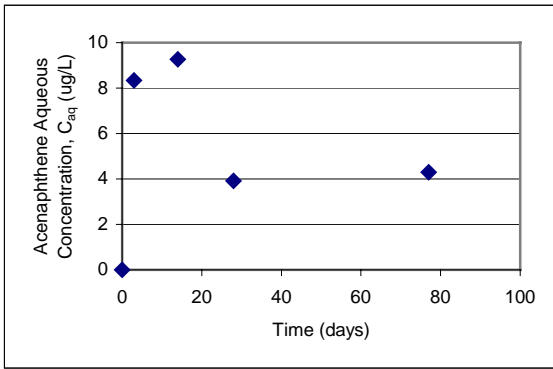
**Figure 24A Desorption equilibrium experiment
aqueous concentration versus time at SB-12
10 feet below land surface**



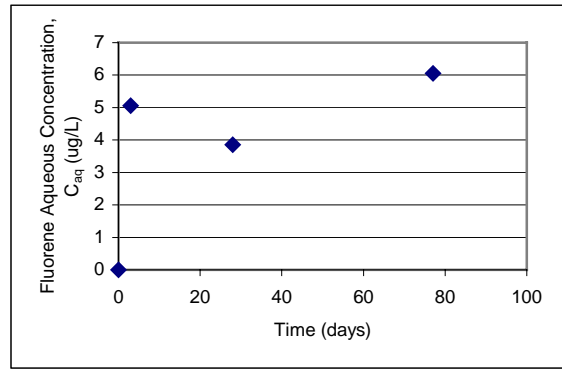
Naphthalene



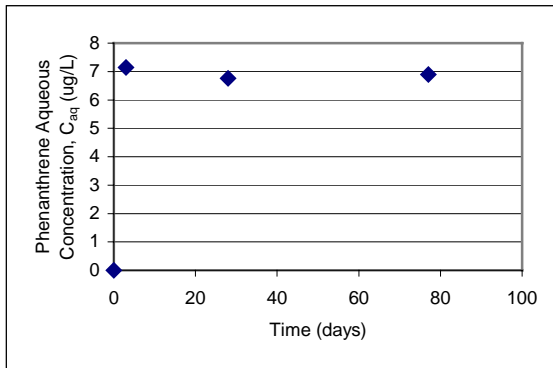
Acenaphthylene



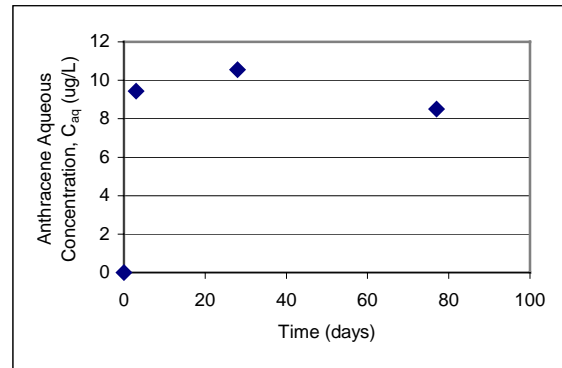
Acenaphthene



Fluorene

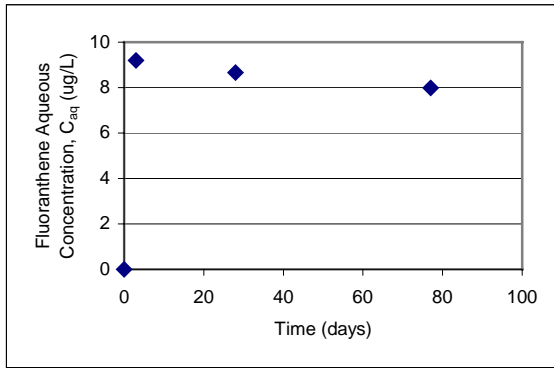


Phenanthrene

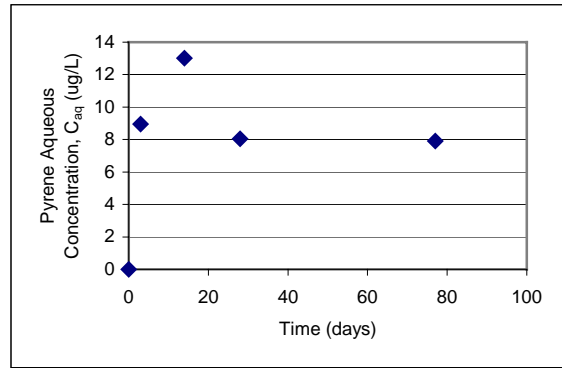


Anthracene

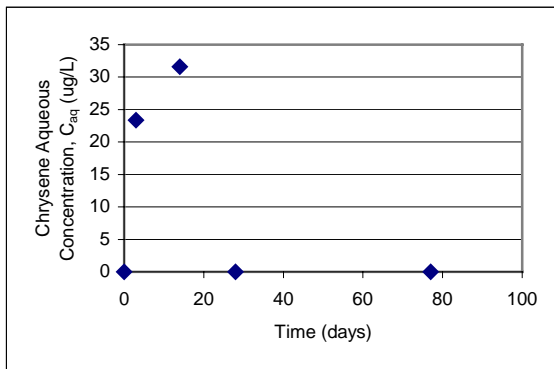
**Figure 25A Desorption equilibrium experiment
aqueous concentration versus time at SB-14
8 feet below land surface**



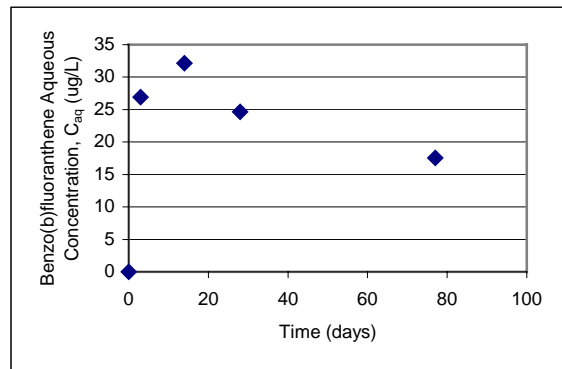
Fluoranthene



Pyrene

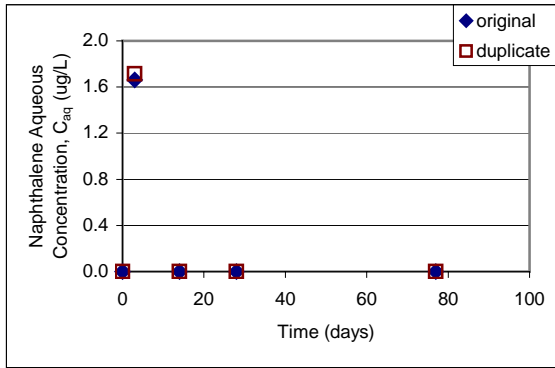


Chrysene

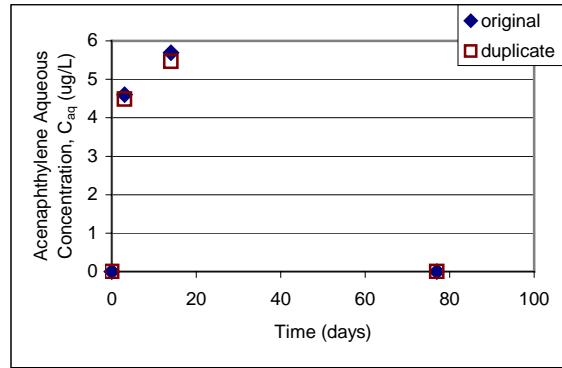


Benzo(b)fluoranthene

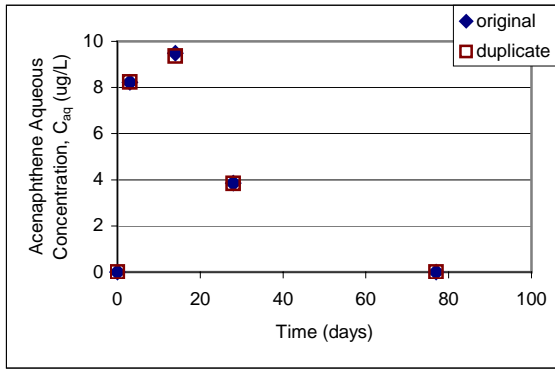
**Figure 26A Desorption equilibrium experiment
aqueous concentration versus time at SB-14
8 feet below land surface**



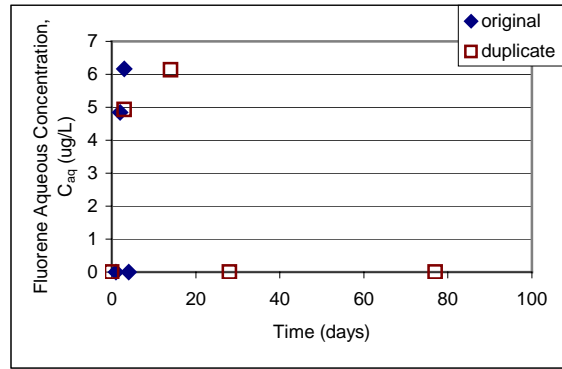
Naphthalene



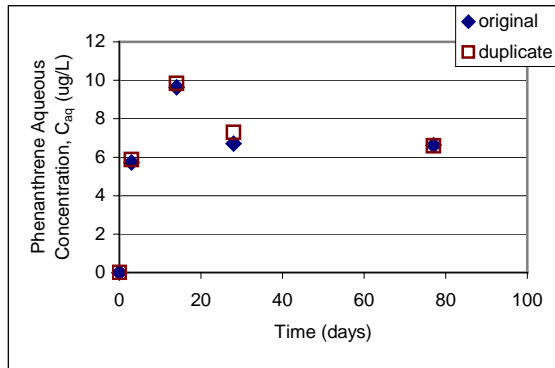
Acenaphthylene



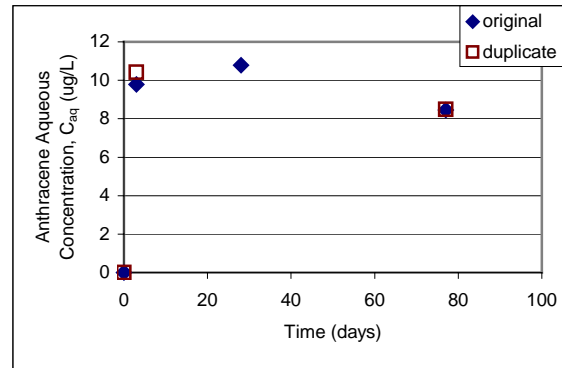
Acenaphthene



Fluorene

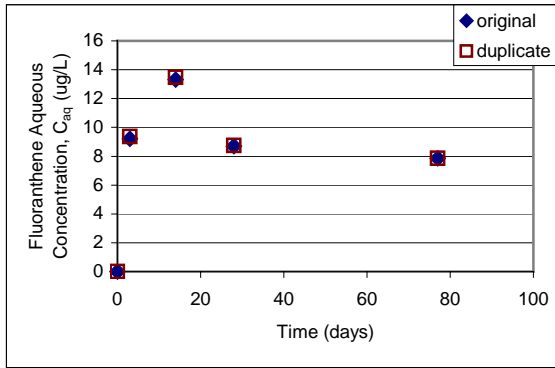


Phenanthrene

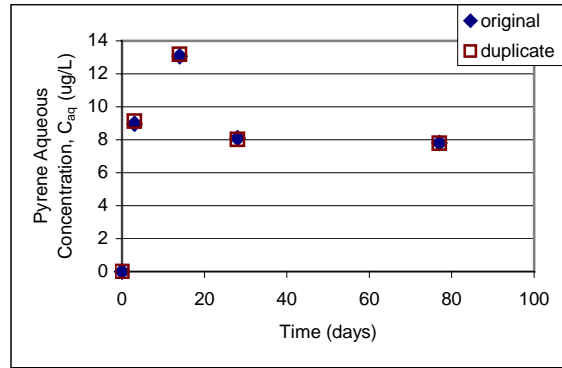


Anthracene

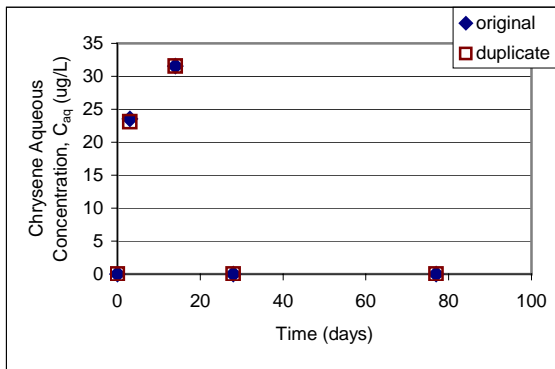
**Figure 27A Desorption equilibrium experiment
aqueous concentration versus time at SB-14
9 feet below land surface**



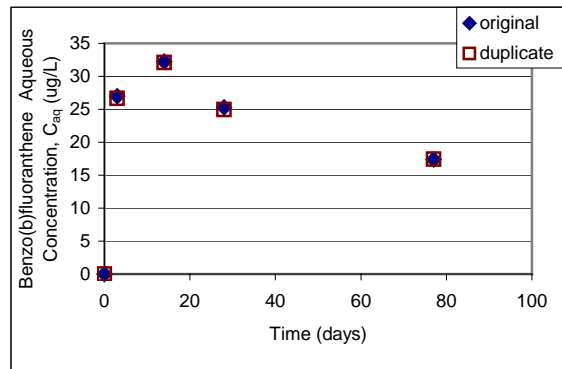
Fluoranthene



Pyrene



Chrysene



Benzo(b)fluoranthene

**Figure 28A Desorption equilibrium experiment
aqueous concentration versus time at SB-14
9 feet below land surface**

**Table 1A Desorption equilibrium experiment sampling event - 3 days
Groundwater PAH concentrations (µg/L or ppb)**

Sample ID	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Chrysene	Benzo(b)fluoranthene	Total PAHs	Avg 3-Ring PAHs	Avg 4-Ring PAHs
SB-1, 5 ft	1.51	7.40	13.56	8.58	7.88	9.22	9.29	9.03	22.94	26.74	116	9	14
SB-1, 5 ft dup	1.51	7.67	14.16	8.41	7.48	9.10	9.27	9.06	23.40	26.84	117	9	14
SB-1, 6 ft	4869.31	127.25	601.16	355.66	388.39	149.26	76.92	61.97	91.41	102.00	6823	324	77
SB-1, 6 ft dup	5420.80	133.57	649.20	384.08	438.12	162.65	83.16	67.36	92.18	103.53	7535	354	81
SB-1, 7 ft	9239.79	154.61	720.84	454.59	584.16	208.61	123.51	98.31	105.50	115.50	11805	425	109
SB-1, 7 ft dup	8348.70	150.26	701.64	480.89	736.91	214.09	218.76	170.91	148.90	150.27	11321	457	180
SB-2, 5 ft	40.37	5.47	12.08	7.67	10.42	8.91	9.36	9.08	23.30	26.68	153	9	14
SB-2, 5 ft dup	12.46	4.93	9.22	5.54	6.47	8.58	9.03	8.87	23.38	26.71	115	7	14
SB-2, 6 ft	230.14	19.79	50.13	69.27	57.25	12.23	11.09	10.14	23.38	26.74	510	42	15
SB-2, 6 ft dup	154.01	17.97	43.71	59.58	51.16	12.12	10.86	10.02	23.14	26.73	409	37	15
SB-2, 7 ft	208.98	108.02	556.49	358.09	438.63	89.24	72.61	60.65	89.15	100.60	2082	310	74
SB-2, 7 ft dup	877.55	102.38	489.68	331.91	454.06	86.76	83.23	66.90	91.47	101.81	2686	293	81
SB-3, 6 ft	1.54	7.08	11.68	4.49	7.25	9.00	9.08	8.93	23.44	26.68	109	8	14
SB-3, 7 ft	191.27	26.62	55.78	62.05	96.41	25.11	23.86	18.79	23.65	26.79	550	53	22
SB-3, 7 ft dup	241.88	25.45	59.25	63.78	91.10	24.00	20.49	16.67	23.73	26.72	593	53	20
SB-3, 8 ft	9603.31	166.65	660.63	364.86	451.73	109.68	83.07	69.44	146.34	104.18	11760	351	100
SB-3, 8 ft dup	8962.48	147.82	598.36	334.28	418.55	103.41	78.22	65.83	145.44	102.25	10957	320	96
SB-4, 8 ft	1.59	3.93	6.68	4.07	5.35	8.40	8.93	0.00	23.04	26.80	89	6	11
SB-4, 9 ft	1.68	13.98	6.89	4.21	6.01	9.12	9.10	9.03	23.21	26.70	110	8	14
SB-4, 10 ft	7412.24	128.55	632.94	318.35	400.90	129.11	95.08	77.16	101.64	105.97	9402	322	91
SB-5, 8 ft	1.78	6.09	8.34	5.06	7.14	9.44	9.20	8.95	23.36	26.91	106	7	14
SB-5, 9 ft	1.66	4.60	8.23	4.84	5.72	9.79	9.20	8.98	23.53	26.97	104	7	14
SB-5, 9 ft dup	1.71	4.48	8.23	4.93	5.87	10.42	9.37	9.12	23.11	26.65	104	7	14
Blank	1.87	3.84	6.83	0.00	0.00	0.00	0.00	0.00	23.29	0.00	36	2	8

**denotes outlier*

Table 2A Desorption equilibrium experiment sampling event – 14 days
Groundwater PAH concentrations (µg/L or ppb)

Sample ID	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Chrysene	Benzo(b)fluoranthene	Total PAHs	Avg 3-Ring PAHs	Avg 4-Ring PAHs
SB-1, 5 ft	0.00	10.62	9.41	0.00	9.37	12.70	13.52	13.20	32.76	32.94	135	8	20
SB-1, 5 ft dup	0.00	10.62	9.43	0.00	9.25	12.59	13.37	13.13	32.34	32.21	133	8	20
SB-1, 6 ft	4006.18	130.88	793.05	459.67	517.26	206.20	114.31	92.30	132.32	122.80	6575	421	113
SB-1, 6 ft dup	4517.23	123.69	760.59	451.38	522.68	198.91	116.97	93.65	134.60	123.91	7044	411	115
SB-1, 7 ft	10465.55	144.92	906.54	594.06	843.64	271.71	232.82	184.78	167.97	155.46	13967	552	195
SB-1, 7 ft dup	5639.46	92.66	513.92	321.71	387.64	148.49	106.56	89.76	133.79	124.02	7558	293	110
SB-2, 5 ft	2.69	6.97	13.67	8.38	11.00	12.68	13.46	13.17	32.11	31.88	146	11	20
SB-2, 5 ft dup	2.31	6.53	11.38	7.14	9.73	12.50	13.39	13.05	32.05	32.16	140	9	19
SB-2, 6 ft	0.00	14.21	47.35	77.90	56.63	15.32	15.16	14.05	32.64	32.05	305	42	21
SB-2, 6 ft dup	0.00	14.07	36.73	76.97	55.54	15.97	15.05	13.90	32.46	31.94	293	40	20
SB-2, 7 ft	0.00	98.84	726.75	501.88	601.62	131.06	127.46	101.71	135.99	124.84	2550	412	122
SB-2, 7 ft dup	79.61	76.17	444.87	303.44	387.96	88.80	91.17	77.06	124.04	118.47	1792	260	97
SB-3, 6 ft	0.00	9.37	12.67	0.00	9.70	12.40	13.34	0.00	31.64	35.17	124	9	15
SB-3, 7 ft	2.72	9.40	53.20	69.76	102.72	27.62	27.66	21.88	34.68	31.93	382	53	28
SB-3, 7 ft dup	2.61	11.07	63.58	80.91	105.73	27.02	26.06	20.76	35.54	32.00	405	58	27
SB-3, 8 ft	12565.99	141.70	725.47	414.99	554.47	124.03	153.82	126.22	148.23	139.29	15094	392	143
SB-3, 8 ft dup	12123.84	143.75	760.23	453.77	626.52	144.59	178.01	144.53	159.68	147.89	14883	426	161
SB-4, 8 ft	0.00	5.52	0.00	0.00	0.00	0.00	13.30	13.04	31.79	32.55	96	1	19
SB-4, 9 ft	0.00	5.38	9.47	7.03	9.26	12.48	13.55	13.10	31.55	31.82	134	9	19
SB-4, 10 ft	8402.91	127.77	794.36	429.81	642.79	172.68	223.41	182.82	164.31	160.28	11301	433	190
SB-5, 8 ft	0.00	8.33	9.26	0.00	0.00	0.00	0.00	13.02	31.58	32.16	94	4	15
SB-5, 9 ft	0.00	5.69	9.48	6.16	9.64	0.00	13.32	13.06	31.54	32.24	121	6	19
SB-5, 9 ft dup	0.00	5.47	9.36	6.14	9.84	0.00	13.46	13.18	31.58	32.10	121	6	19
Blank	0.00	4.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.26	38	1	0

*denotes outlier

**Table 3A Desorption equilibrium experiment sampling event – 28 days
Groundwater PAH concentrations (µg/L or ppb)**

Sample ID	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Chrysene	Benzo(b)fluoranthene	Total PAHs	Avg 3-Ring PAHs	Avg 4-Ring PAHs
SB-1, 5 ft	0.00	27.06	4.27	0.00	6.73	10.62	8.80	8.19	24.50	26.45	117	10	14
SB-1, 5 ft dup	0.00	26.67	4.28	0.00	6.70	10.56	8.70	8.06	24.16	25.68	115	10	14
SB-1, 6 ft	2576.63	184.98	705.11	465.20	555.87	351.87	113.23	84.85	118.84	103.19	5260	453	106
SB-1, 6 ft dup	3011.20	187.50	772.80	481.40	582.94	317.50	123.22	91.85	119.30	102.35	5790	468	111
SB-1, 7 ft	9641.08	205.01	918.87	653.96	1065.63	284.42	306.71	238.43	192.74	166.75	13674	626	246
SB-1, 7 ft dup	6698.44	174.82	675.42	531.61	809.25	290.65	229.36	177.47	162.66	139.30	9889	496	190
SB-2, 5 ft	200.79	26.29	30.55	26.16	55.89	18.49	26.32	21.63	29.01	29.17	464	31	26
SB-2, 5 ft dup	0.00	23.37	3.95	0.00	0.00	10.50	0.00	8.00	0.00	25.44	71	8	3
SB-2, 6 ft	0.00	22.13	5.99	8.45	9.52	0.00	8.73	8.03	0.00	24.14	87	9	6
SB-2, 6 ft dup	0.00	22.25	5.97	9.70	10.40	0.00	8.81	8.08	0.00	24.55	90	10	6
SB-2, 7 ft	0.00	88.13	66.31	49.40	66.43	48.79	38.13	33.84	91.47	90.65	573	64	54
SB-2, 7 ft dup	0.00	140.81	606.57	449.58	580.17	153.62	101.31	79.87	106.95	99.76	2319	386	96
SB-3, 6 ft	0.00	25.97	3.91	3.84	6.69	10.57	0.00	8.01	0.00	25.79	85	10	3
SB-3, 7 ft	3.62	28.83	55.61	81.38	127.15	31.96	27.84	19.75	29.67	25.87	432	65	26
SB-3, 7 ft dup	2.40	29.29	63.21	91.26	123.53	29.58	24.39	17.62	31.51	25.94	439	67	25
SB-3, 8 ft	0.00	220.29	720.02	443.06	631.27	137.31	168.60	131.73	142.48	125.07	2720	430	148
SB-3, 8 ft dup	11771.16	214.75	723.18	447.98	656.65	136.43	179.82	140.10	147.15	133.21	14550	436	156
SB-4, 8 ft	1.29	22.59	3.82	0.00	6.71	10.48	0.00	8.05	0.00	25.57	79	9	0
SB-4, 9 ft	0.00	22.48	4.07	5.16	6.76	10.84	9.09	8.20	0.00	25.59	92	10	6
SB-4, 10 ft	7346.18	185.96	808.54	441.63	540.64	196.29	212.93	167.00	162.79	131.95	10194	479	163
SB-5, 8 ft	1.94	25.32	3.92	3.86	6.76	10.56	8.67	8.04	0.00	24.65	94	10	6
SB-5, 9 ft	0.00	22.64	3.86	0.00	6.70	10.78	8.71	8.10	0.00	25.28	86	9	6
SB-5, 9 ft dup	0.00	22.61	3.84	0.00	7.30	0.00	8.74	8.02	0.00	24.95	75	7	6
Blank	0.00	22.03	0.00	0.00	0.00	0.00	0.00	8.10	23.97	25.65	80	4	11

*denotes outlier

**Table 4A Desorption equilibrium experiment sampling event – 77 days
Groundwater PAH concentrations (µg/L or ppb)**

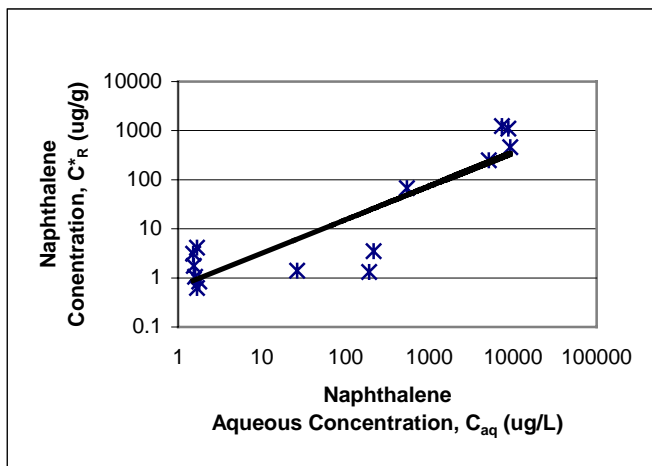
Sample ID	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Chrysene	Benzo(b)fluoranthene	Total PAHs	Avg 3-Ring PAHs	Avg 4-Ring PAHs
SB-1, 5 ft	0.00	0.00	4.59	0.00	6.68	8.52	7.91	7.91	15.68	17.85	69	4	10
SB-1, 5 ft dup	0.00	0.52	5.00	0.00	0.00	0.00	7.92	7.92	15.58	17.70	55	1	10
SB-1, 6 ft	82.14	112.58	818.33	500.04	698.61	220.38	162.18	124.56	83.92	73.77	2876	470	124
SB-1, 6 ft dup	119.21	96.85	704.37	432.82	555.07	193.32	124.18	96.52	75.73	69.15	2467	396	99
SB-1, 7 ft	576.16	9.09	108.18	98.33	197.20	60.25	89.00	74.42	69.79	71.33	1354	95	78
SB-1, 7 ft dup	6010.51	148.31	870.03	595.67	1069.51	246.21	284.88	213.97	122.62	86.73	9648	586	207
SB-2, 5 ft	5.45	0.00	4.18	0.00	6.87	8.51	7.92	7.85	0.00	17.69	58	4	5
SB-2, 5 ft dup	0.00	0.00	0.00	0.00	6.62	8.45	7.86	7.83	0.00	17.26	48	3	5
SB-2, 6 ft	3.78	8.10	32.08	79.64	61.64	11.85	10.35	9.12	16.55	18.35	251	39	12
SB-2, 6 ft dup	0.00	5.15	26.92	75.57	57.28	12.23	10.13	8.93	16.50	17.68	230	35	12
SB-2, 7 ft	0.00	31.40	711.61	411.93	330.18	100.40	117.49	93.93	71.35	67.46	1936	317	94
SB-2, 7 ft dup	0.00	15.67	525.48	418.03	594.75	102.49	107.57	86.08	70.50	67.10	1988	331	88
SB-3, 6 ft	0.00	3.84	4.17	6.01	6.83	8.56	0.00	7.82	0.00	17.64	55	6	3
SB-3, 7 ft	4.95	3.26	39.25	52.75	92.38	21.02	21.12	15.94	20.27	17.76	289	42	19
SB-3, 7 ft dup	4.27	5.96	43.38	64.43	95.87	20.49	19.85	15.14	21.14	18.13	309	46	19
SB-3, 8 ft	11487.89	123.84	704.16	410.34	544.05	127.31	121.16	94.73	81.19	76.14	13771	382	99
SB-3, 8 ft dup	10606.02	128.35	646.23	389.23	558.78	127.00	145.39	117.03	88.23	78.96	12885	370	117
SB-4, 8 ft	0.00	0.00	0.00	0.00	6.63	8.42	7.93	7.82	0.00	17.64	48	3	5
SB-4, 9 ft	0.00	0.00	0.00	6.78	6.97	9.15	7.94	7.91	0.00	17.54	56	5	5
SB-4, 10 ft	5124.65	146.57	908.88	512.38	727.25	214.80	336.68	266.85	135.01	100.10	8473	502	246
SB-5, 8 ft	5.66	0.03	4.29	6.05	6.89	8.51	7.98	7.90	0.00	17.56	65	5	5
SB-5, 9 ft	0.00	0.00	0.00	0.00	6.62	8.46	7.85	7.80	0.00	17.39	48	3	5
SB-5, 9 ft dup	0.00	0.00	0.00	0.00	6.60	8.49	7.85	7.78	0.00	17.43	48	3	5
Blank	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.32	17	0	0

**denotes outlier*

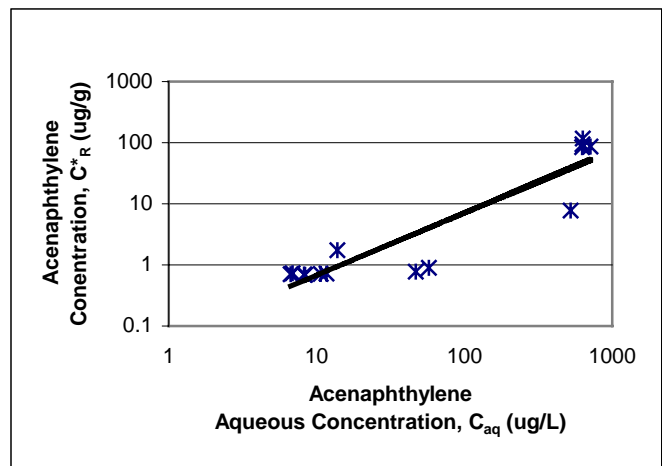
Table 5A Sorbed concentration (mg/kg) for use in desorption equilibrium experiment isotherms

Sample Location	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Chrysene	Benzo(b) fluoranthene	TPAH
SB-10 5 ft	3.13	1.73	1.88	1.62	2.30	2.79	4.91	5.00	10.63	15.64	49.63
SB-10 6 ft	247.42	84.82	633.16	818.30	1935.01	814.40	864.76	725.49	318.88	299.93	6742.16
SB-10 7 ft	1103.78	86.11	593.78	642.43	1584.16	239.94	726.80	605.92	259.13	262.99	6105.04
SB-25 5 ft	1.41	0.71	1.57	1.13	1.59	1.65	1.89	1.88	2.84	2.80	17.48
SB-25 6 ft	1.31	0.77	2.17	3.20	4.57	1.95	2.10	1.99	2.84	2.75	23.66
SB-25 7 ft	67.72	7.72	91.09	103.63	287.42	35.97	129.74	107.44	37.86	39.16	907.75
SB-11 6 ft	1.77	0.72	1.53	1.17	1.52	1.62	1.84	1.84	2.85	2.86	17.71
SB-11 7 ft	3.50	0.89	2.65	3.44	10.22	2.30	5.80	4.75	3.19	2.88	39.60
SB-11 8 ft	459.68	94.47	674.40	694.37	1922.16	328.39	1003.65	852.65	358.82	340.84	6729.42
SB-12 8 ft	1.06	0.70	1.47	1.06	1.46	1.61	1.90	1.89	2.85	2.78	16.78
SB-12 9 ft	4.14	0.73	2.04	2.00	2.87	1.73	1.87	1.86	2.84	2.77	22.83
SB-12 10 ft	1235.63	117.58	921.93	782.01	2327.66	320.12	1388.46	1202.65	425.57	501.87	9223.47
SB-14 8 ft	0.84	0.69	1.44	1.01	1.37	1.61	1.83	1.83	2.83	2.85	16.30
SB-14 9 ft	0.62	0.69	1.46	1.01	1.40	1.63	1.85	1.86	2.85	2.81	16.18

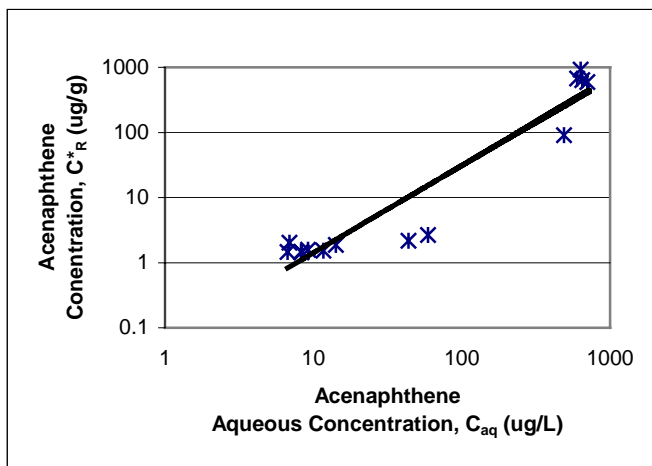
**Sorbed concentrations were obtained using the soil extraction method described in Section 4.7.2*



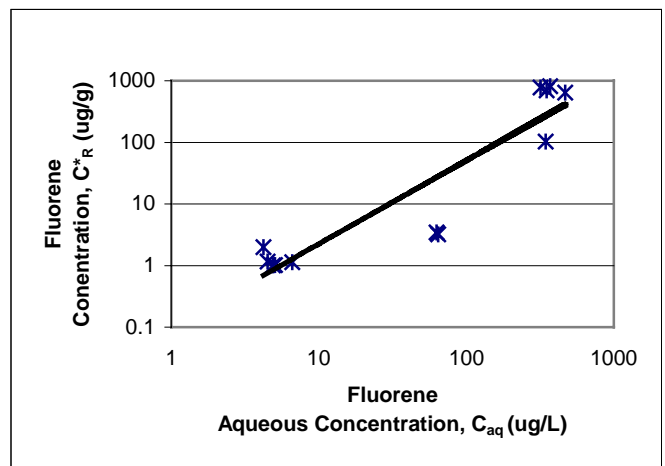
Naphthalene



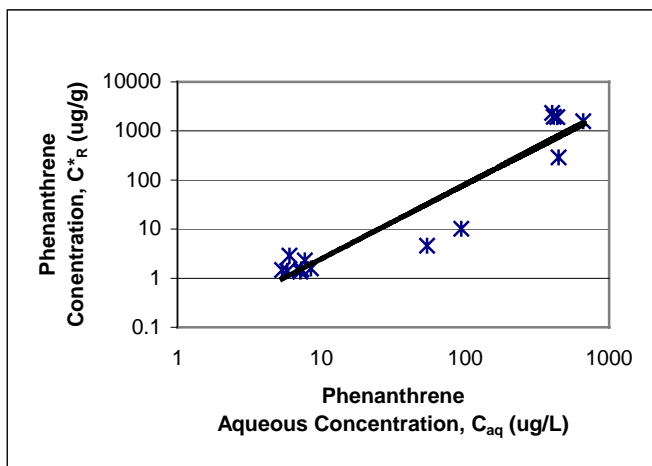
Acenaphthylene



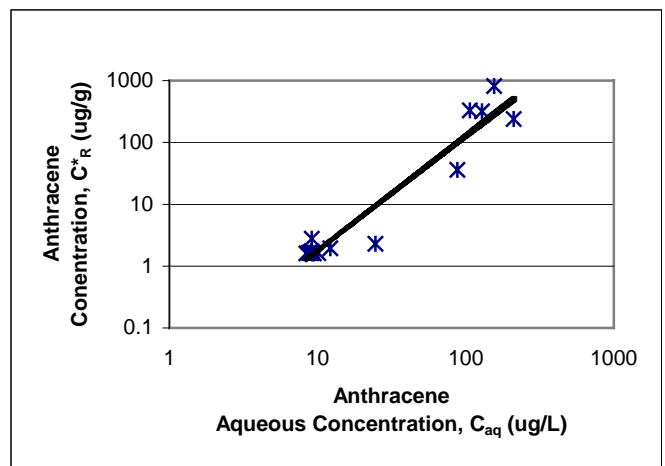
Acenaphthene



Fluorene

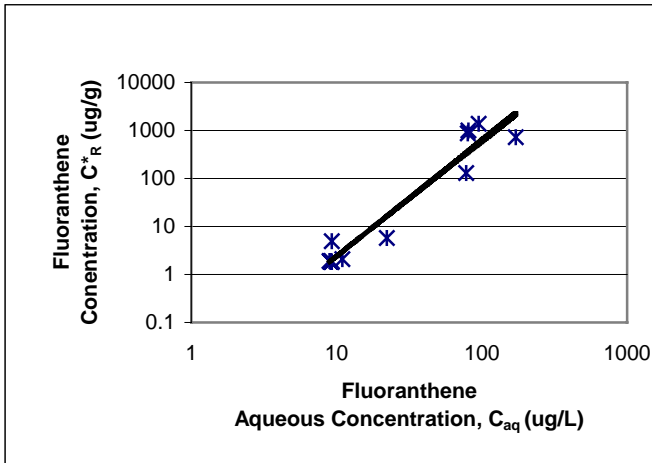


Phenanthrene

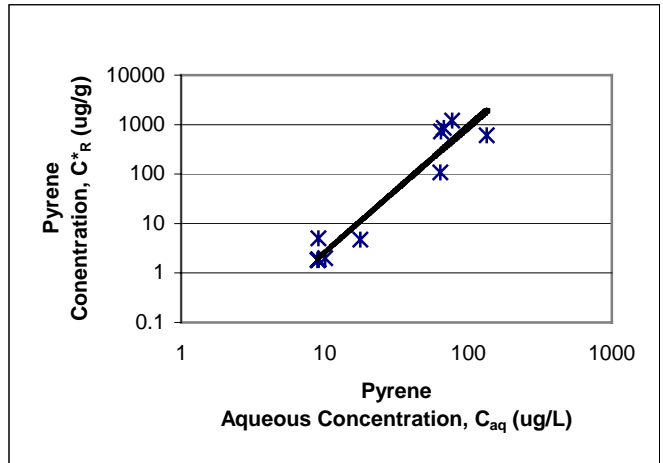


Anthracene

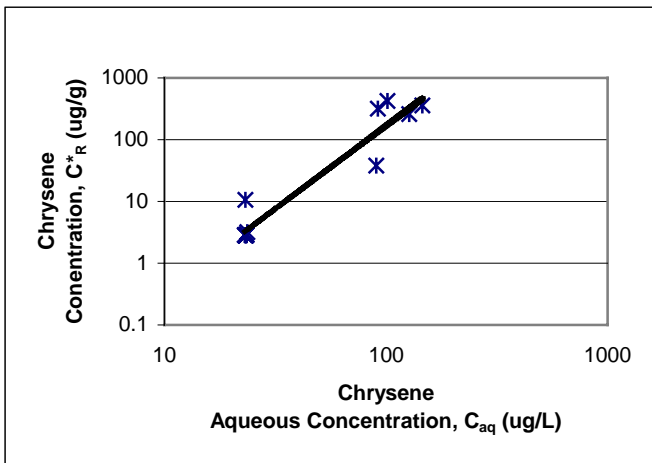
Figure 29A Desorption equilibrium experiment Freundlich desorption isotherms based on soil samples from all SB locations



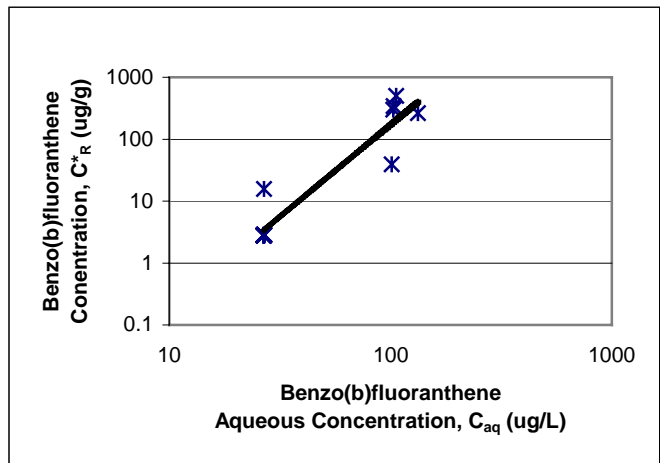
Fluoranthene



Pyrene



Chrysene



Benzo(b)fluoranthene

Figure 30A Desorption equilibrium experiment Freundlich desorption isotherms based on soil samples from all SB locations