APPENDIX A

Analytical Data Tables

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
7-BV-01 (NA) Former Landfill Soil Vapor Extraction/Injection Well								
05/23/2011	**0.200JF**	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
7-BV-02 (NA) Former Landfill Soil Vapor Extraction/Injection Well								
05/24/2011	**17**	**2.50**	<0.100	**0.600**	**1.50**	**4**	**5.70**	<0.100
7-BV-04 (NA) Former Landfill Soil Vapor Extraction/Injection Well								
05/24/2011	**0.300F**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
7-BV-07 (NA) Former Landfill Soil Vapor Extraction/Injection Well								
05/23/2011	**4**	**1.60**	<0.100	**0.200F**	<0.100	<0.100	<0.100	<0.100
7-BV-08 (NA) Former Landfill Soil Vapor Extraction/Injection Well								
05/24/2011	**10**	**1.10**	<0.100	<0.100	0.100JF	<0.100	<0.100	<0.100
05/03/2012	**7.10**	**0.900**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
7-BV-13 (NA) Former Landfill Soil Vapor Extraction/Injection Well								
05/24/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
7-EW-1 (B) Site 7 Groundwater Extraction Well								
06/15/2011	**8.10**	**1.30**	<0.100	0.200F	**0.400F**	<0.100	<0.100	<0.300
7-EW-2 (B) Site 7 Groundwater Extraction Well								
06/15/2011	**20**	**2.70**	<0.100	**0.300F**	**2.30**	**1.20**	**0.400F**	<0.300
7-PTE (NA) Site 7 Groundwater Treatment System Effluent								
01/04/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
02/02/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
03/01/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
04/05/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
05/03/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
06/07/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.200
07/05/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
08/02/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
09/06/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
10/05/2011	0.100JF	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
11/01/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
12/06/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
01/03/2012	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
02/07/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
03/06/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
04/03/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.300
05/01/2012	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
06/05/2012	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
07/02/2012	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
08/07/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
09/04/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100

TABLE A-1

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SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
10/03/2012	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
11/07/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
12/05/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
7-PTI (NA) Site 7 Groundwater Treatment System Influent								
02/02/2011	**16**	**2.10**	<0.100	**0.300F**	**1.50**	**0.500**	**0.200F**	<0.100
05/03/2011	**15**	**2.20**	<0.100	0.200F	**1.50**	**0.500**	**0.200F**	<0.100
08/02/2011	**13**	**1.80**	<0.100	<0.200	**1.20**	**0.700**	**0.200F**	<0.100
10/05/2011	**12**	**1.80**	<0.100	0.100F	**1.20**	**0.600**	0.200F	<0.200
01/03/2012	**13**	**2**	<0.100	0.200F	**1.30**	**0.600**	**0.300F**	<0.300
04/03/2012	**14**	**2.20**	<0.100	0.200F	**1.70**	**0.600**	**0.300F**	<0.300
07/02/2012	**13**	**1.90**	<0.100	0.200F	**1.20**	**0.700**	**0.300F**	<0.100
10/03/2012	**15**	**2.90**	<0.100	0.200F	**1.50**	**0.600**	**0.300F**	<0.300
7-PZ-37P (WTZPERCH) Landfill Groundwater Piezometer								
05/16/2011	**2.90**	**1.40**	<0.100	<0.100	**0.200F**	<0.100	<0.200	<0.200
05/08/2012	**5.20**	**1.40**	<0.100	**0.300F**	**0.900**	<0.100	<0.100	<0.300
7-PZ-38P (WTZPERCH) Landfill Groundwater Piezometer								
05/24/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
7-PZ-40 (C) Site 7 Groundwater Piezometer								
06/15/2011	**17**	**2.20**	<0.100	**0.300F**	**0.800**	**0.300F**	<0.100	<0.300
7-PZ-41 (C) Site 7 Groundwater Piezometer								
06/15/2011	**7.70**	**1.40**	<0.100	<0.200	**0.500F**	<0.100	<0.100	<0.300
ACW AT-1 (C) AC and W Groundwater Extraction Well								
05/19/2011	**19**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/11/2012	**22J**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
ACW AT-2 (C) AC and W Groundwater Extraction Well								
05/19/2011	**13**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/11/2012	**14J**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
ACW EW-1 (C) AC and W Groundwater Extraction Well								
05/19/2011	**8.40**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/11/2012	**8.50J**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
ACW EW-2 (C) AC and W Groundwater Extraction Well								
05/19/2011	**3.40**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/11/2012	**2.50J**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
ACW EW-3 (C) AC and W Groundwater Extraction Well								
05/19/2011	**3.20**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/11/2012	**2.40J**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
ACW EW-4 (C) AC and W Groundwater Extraction Well								
06/07/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100

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SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
05/11/2012	0.100FJ	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
ACW EW-6R (C) AC and W Groundwater Extraction Well								
06/07/2011	**4.30**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
02/16/2012	**4.20**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/11/2012	**3.70J**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
08/30/2012	**3.80J**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
11/30/2012	**3.40J**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
ACW PTE (NA) AC and W Groundwater Treatment System Effluent								
01/04/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
02/02/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
03/01/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
04/05/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
05/03/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
06/07/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.200
07/05/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
08/02/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
09/06/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
10/05/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
11/02/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
12/06/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
01/03/2012	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
02/07/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
03/06/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
04/03/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.300
05/01/2012	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
06/05/2012	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
07/02/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
08/07/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
09/04/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
10/03/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	**0.200FJ**
11/07/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
12/05/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
ACW PTI (NA) AC and W Groundwater Treatment System Influent								
02/02/2011	**6**	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
05/03/2011	**5.60**	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
08/02/2011	**5**	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
10/05/2011	**4.70J**	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
01/03/2012	**7**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.200
04/03/2012	**5.80**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.300

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FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
07/02/2012	**6.40**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
10/03/2012	**6.10J**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
ACW PZ-03 (C) AC and W Groundwater Piezometer								
06/02/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
ACW PZ-04 (C) AC and W Groundwater Piezometer								
05/09/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
ACW PZ-08C (C) AC and W Groundwater Piezometer								
05/10/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
ACW PZ-09C (C) AC and W Groundwater Piezometer								
05/11/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
ACW PZ-10C (C) AC and W Groundwater Piezometer								
05/12/2011	**2.10**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.100F
ACW R2 AC and W Surface Water Discharge at Mather Lake								
02/02/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/03/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
08/02/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
10/05/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
01/03/2012	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
04/03/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.300
07/02/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
10/03/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
FFS MW15-6 (D) Main Base/SAC Groundwater Monitoring Well								
06/02/2011	**6.60**	**3.90**	**0.900**	<0.100	**0.300F**	<0.100	<0.100	<0.100
05/10/2012	**6.30**	**4**	**0.900**	<0.100	**0.300F**	<0.100	<0.100	<0.300
MAFB-033 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
06/03/2011	**7.90**	**0.300F**	<0.100	<0.100	**1.20**	**0.300F**	<0.100	<0.100
MAFB-041 (B) Site 7 Groundwater Monitoring Well								
06/09/2011	**40**	**4.70**	<0.100	<0.200	**12**	**9.40J**	**9.20**	<0.100
05/07/2012	**17**	**1.20**	<0.100	<0.100	**4.90**	**3.70**	**3.20**	<0.300
MAFB-042 (WT/B) Site 7 Groundwater Monitoring Well								
06/09/2011	0.100JF	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.200
MAFB-047 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
06/10/2011	0.100F	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
MAFB-048 (WT) Main Base/SAC Groundwater Monitoring Well								
06/10/2011	0.100F	**3.50**	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
MAFB-053 (C) AC and W Groundwater Monitoring Well								
05/26/2011	**0.900J**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	**0.200JF**
MAFB-056 (D) Site 7 Groundwater Monitoring Well								

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Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
06/09/2011	**0.400JF**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.200
MAFB-058 (D) Site 7 Groundwater Monitoring Well								
06/16/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
MAFB-059 (B) Main Base/SAC Groundwater Monitoring Well								
06/07/2011	0.100F	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-062 (D) Main Base/SAC Groundwater Monitoring Well								
06/10/2011	**0.300F**	**0.200F**	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
MAFB-063 (D) Main Base/SAC Groundwater Monitoring Well								
06/10/2011	<0.100	**3.50J**	**0.200F**	<0.200	<0.100	<0.100	<0.100	<0.100
MAFB-067 (D) AC and W Groundwater Monitoring Well								
05/12/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-068 (D) AC and W Groundwater Monitoring Well								
05/12/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-078 (D) AC and W Groundwater Monitoring Well								
05/10/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
MAFB-094 (WT/B) Main Base/SAC Groundwater Monitoring Well								
05/11/2011	**1.80**	<0.100	0.100F	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-101 (B) Main Base/SAC Groundwater Monitoring Well								
06/02/2011	<0.100	**7.90**	**0.300F**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-102 (D) Main Base/SAC Groundwater Monitoring Well								
05/31/2011	**9.30**	**0.500F**	**2**	**0.200F**	**0.300F**	<0.100	<0.100	<0.100
MAFB-104 (D) Main Base/SAC Groundwater Monitoring Well								
05/17/2011	**2.40**	**11**	**1.10**	<0.100	0.100F	<0.100	<0.200	<0.200
05/09/2012	**2.40**	**12**	**0.900**	<0.100	**0.200F**	<0.100	<0.100	<0.300
MAFB-111 (WT/B) Landfill LF03/NE Plume Groundwater Monitoring Well								
05/09/2012	0.100F	**1.40**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-112 (WT/C) Landfill LF03/NE Plume Groundwater Monitoring Well								
05/02/2012	0.100F	**0.800**	<0.100	<0.100	**0.200F**	<0.100	<0.100	<0.100
MAFB-129 (WT/C) Landfill NE Plume Groundwater Monitoring Well								
06/14/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
MAFB-132 (WT/B) Landfill LF04/NE Plume Groundwater Monitoring Well								
05/25/2011	**6.20**	**28**	<0.100	<0.100	**32**	0.100F	**0.200F**	**0.200F**
05/09/2012	**7.20**	**35**	<0.100	<0.100	**34**	**0.200F**	0.100F	<0.100
11/07/2012	**7.70**	**33**	<0.100	<0.100	**38**	**0.200F**	0.100F	<0.100
MAFB-133 (WT/B) Landfill LF03/NE Plume Groundwater Monitoring Well								
05/26/2011	**0.600J**	**3.90J**	<0.100	<0.100	**2.20J**	<0.100	<0.100	<0.100
04/30/2012	**0.700**	**5.10**	<0.100	<0.200	**2.10**	<0.100	<0.100	<0.300
MAFB-136 (WT/B) Landfill LF04/NE Plume Groundwater Monitoring Well								

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
05/25/2011	**0.600**	**2.50**	<0.100	<0.100	**2.40**	<0.100	<0.100	**0.200F**
05/09/2012	**0.400F**	**2.20**	<0.100	<0.100	**2**	<0.100	<0.100	<0.100
MAFB-149 (WT/B) Landfill WP07 Groundwater Monitoring Well								
05/17/2011	<0.100	<0.100	<0.100	**0.800**	<0.100	<0.100	<0.100	<0.100
05/08/2012	<0.100	**0.200F**	<0.100	**0.500**	<0.100	<0.100	<0.100	<0.100
MAFB-164 (B) Main Base/SAC Groundwater Monitoring Well								
05/23/2011	<0.100	**3**	**0.200JF**	<0.200	<0.100	<0.100	<0.100	<0.300
MAFB-167 (B) Main Base/SAC Groundwater Monitoring Well								
05/24/2011	**9.70**	**2.60**	**0.600**	0.100F	<0.100	<0.100	<0.100	<0.100
MAFB-168 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
06/20/2011	**6.40**	**2.10**	**0.500**	<0.200	**1**	<0.100	<0.100	<0.100
MAFB-170 (B) Main Base/SAC Groundwater Monitoring Well								
05/25/2011	**0.200F**	**0.300F**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-171 (B) Main Base/SAC Groundwater Monitoring Well								
06/20/2011	**3.50**	**1.40**	0.100F	<0.200	<0.100	<0.100	<0.100	<0.100
MAFB-172 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
06/17/2011	**0.400F**	0.100F	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
MAFB-173 (B) Main Base/SAC Groundwater Monitoring Well								
06/22/2011	**3**	**1.40**	**0.900**	<0.200	<0.100	<0.100	<0.100	<0.100
MAFB-175 (B) Main Base/SAC Groundwater Monitoring Well								
05/17/2011	**1.10**	**34**	**0.700**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-176 (Bu) Main Base/SAC Groundwater Monitoring Well								
06/03/2011	**1.50**	<0.100	0.100F	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-177 (B) Main Base/SAC Groundwater Monitoring Well								
05/17/2011	**1**	**13**	**0.800**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-180 (D) Main Base/SAC Groundwater Monitoring Well								
05/17/2011	<0.100	**55**	**2.90**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-181 (D) Main Base/SAC Groundwater Monitoring Well								
06/01/2011	<0.100	**19**	**2.80**	<0.100	<0.100	<0.100	<0.100	<0.100
08/16/2011	<0.100	**24**	**3.70**	<0.100	<0.100	<0.100	<0.100	0.100F
11/28/2011	<0.100	**25**	**3.70**	<0.200	<0.100	<0.100	<0.100	<0.300
02/15/2012	<0.100	**27**	**3.80**	<0.100	<0.100	<0.100	<0.100	<0.100
05/09/2012	<0.100	**27**	**2.90J**	<0.100	<0.100	<0.100	<0.100	<0.100
08/29/2012	<0.100	**26**	**3.80**	<0.100	<0.100	<0.100	<0.100	<0.100
11/26/2012	<0.100	**24**	**3**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-191 (D) AC and W Groundwater Monitoring Well								
05/10/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
MAFB-194 (C) AC and W Groundwater Monitoring Well								

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
05/10/2011	**2.30**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-196 (C) AC and W Groundwater Monitoring Well								
05/12/2011	**2.60**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-201 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
05/31/2011	**0.300F**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-203 (WT) Main Base/SAC Groundwater Monitoring Well								
05/31/2011	**16**	**4.70**	**0.800**	**1.80**	**0.300F**	<0.100	<0.100	<0.100
MAFB-205 (WT) Main Base/SAC Groundwater Monitoring Well								
06/01/2011	**0.600**	<0.100	<0.100	<0.100	<0.100	**0.400F**	<0.100	<0.100
MAFB-207 (WT) Main Base/SAC Groundwater Monitoring Well								
05/31/2011	**23**	**1.30**	**43**	**0.200**	**0.300**	<0.100	<0.100	<0.100
MAFB-211 (WT) Main Base/SAC Groundwater Monitoring Well								
06/09/2011	**1.80**	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
MAFB-214 (WT) Main Base/SAC Groundwater Monitoring Well								
06/09/2011	0.100JF	**0.200JF**	<0.100	<0.100	<0.100	<0.100	<0.200	<0.200
03/06/2012	0.100F	**0.300F**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-215 (B) Main Base/SAC Groundwater Monitoring Well								
05/20/2011	**12**	**3.80**	**1.50**	**0.200F**	**0.400F**	<0.100	<0.100	<0.100
MAFB-216 (B) Main Base/SAC Groundwater Monitoring Well								
05/31/2011	**2.60**	**1.40**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-217 (B) Main Base/SAC Groundwater Monitoring Well								
06/20/2011	**15**	**0.300F**	**0.900**	<0.200	<0.100	<0.100	<0.100	<0.100
MAFB-218 (B) Main Base/SAC Groundwater Monitoring Well								
05/31/2011	**14**	**8.70**	**9.50**	**0.400F**	**0.500F**	<0.100	<0.100	<0.100
MAFB-220 (B) Main Base/SAC Groundwater Monitoring Well								
06/20/2011	**13**	**2**	**8.60**	**0.500F**	**0.500**	<0.100	<0.100	<0.100
MAFB-222 (B) Main Base/SAC Groundwater Monitoring Well								
06/02/2011	**2.50**	**4.30**	**1.50J**	<0.100	**0.200F**	**0.200F**	<0.100	<0.100
05/01/2012	**1.50**	**3.50**	**0.600**	<0.200	<0.100	<0.100	<0.100	<0.300
MAFB-223 (B) Main Base/SAC Groundwater Monitoring Well								
06/02/2011	**16**	**1.80**	**6.60**	**0.700**	**1.50**	<0.100	<0.100	0.100F
MAFB-224 (B) Main Base/SAC Groundwater Monitoring Well								
05/31/2011	**18**	**1.10**	**12**	<0.100	**0.400F**	<0.100	<0.100	<0.100
MAFB-227 (B) Main Base/SAC Groundwater Monitoring Well								
06/02/2011	**24**	**2.60**	**8.30**	**0.500**	**1.10**	<0.100	<0.100	<0.100
MAFB-228 (B) Main Base/SAC Groundwater Monitoring Well								
06/10/2011	<0.100	**7.80**	**0.300F**	<0.200	<0.100	<0.100	<0.100	<0.100

TABLE A-1

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FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
MAFB-229 (B) Main Base/SAC Groundwater Monitoring Well								
05/19/2011	**1.40**	**22**	**0.200F**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-230 (B) Main Base/SAC Groundwater Monitoring Well								
06/09/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.200
MAFB-231 (B) Main Base/SAC Groundwater Monitoring Well								
06/08/2011	**0.500F**	**8.10**	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
03/05/2012	**0.600**	**8.20**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-234 (B) Main Base/SAC Groundwater Monitoring Well								
03/05/2012	<0.100	**1.80**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-235 (D) Main Base/SAC Groundwater Monitoring Well								
06/02/2011	**0.500**	**1.20**	**0.200F**	<0.100	<0.100	<0.100	<0.100	**0.200F**
MAFB-240 (D) Main Base/SAC Groundwater Monitoring Well								
05/24/2011	**3.70**	**6**	**1.30**	<0.100	0.100F	<0.100	<0.100	<0.100
MAFB-242 (D) Main Base/SAC Groundwater Monitoring Well								
06/02/2011	**13**	**27**	**1.50**	**0.200F**	**0.500F**	<0.100	<0.100	<0.100
MAFB-243 (D) Main Base/SAC Groundwater Monitoring Well								
05/24/2011	**0.900**	**2.40**	**0.700**	<0.100	<0.100	<0.100	<0.100	<0.100
05/30/2012	**0.900**	**2.10**	**0.800**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-246 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
06/07/2011	**0.200F**	<0.100	**0.300F**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-247 (WT/B) Main Base/SAC Groundwater Monitoring Well								
05/18/2011	**4.30**	<0.100	**0.700**	**0.200F**	**0.500**	<0.100	<0.100	<0.100
MAFB-248 (WT/B) Main Base/SAC Groundwater Monitoring Well								
05/20/2011	**7.90**	0.100F	**1.10**	**0.500**	**1.20**	<0.100	<0.100	<0.100
MAFB-249 (B) Main Base/SAC Groundwater Monitoring Well								
05/20/2011	**13**	**0.500**	**0.600**	**0.600**	**1.40**	<0.100	<0.100	<0.100
MAFB-250 (D) Main Base/SAC Groundwater Monitoring Well								
06/09/2011	**0.400JF**	**0.300JF**	0.100BF	<0.100	<0.100	<0.100	<0.200	<0.200
MAFB-258 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
06/17/2011	**1.10**	**0.200F**	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
MAFB-261 (Bu) Main Base/SAC Groundwater Monitoring Well								
05/10/2011	<0.100	**2.60**	**0.400F**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-263 (Bu) Main Base/SAC Groundwater Monitoring Well								
06/01/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-264 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
06/02/2011	**16**	**2.60**	**3.90**	**0.600**	**0.700**	<0.100	<0.100	<0.100
MAFB-265 (B) Main Base/SAC Groundwater Monitoring Well								

TABLE A-1

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FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
05/19/2011	**19**	**3.30**	**1.10**	**0.600**	**0.700**	<0.100	<0.100	<0.100
MAFB-266 (B) Main Base/SAC Groundwater Monitoring Well								
06/10/2011	**6.70**	**2.30**	**1**	<0.200	**0.500F**	<0.100	<0.100	<0.100
MAFB-268 (B) Main Base/SAC Groundwater Monitoring Well								
06/22/2011	**2.70**	**1.80**	**1.10**	<0.200	**0.300F**	<0.100	<0.100	<0.100
MAFB-269 (B) Main Base/SAC Groundwater Monitoring Well								
05/10/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
MAFB-274 (B) Main Base/SAC Groundwater Monitoring Well								
06/08/2011	<0.100	**1.10J**	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
11/08/2012	0.100F	**1**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-282 (B) Main Base/SAC Groundwater Monitoring Well								
06/07/2011	**6.20**	**0.400F**	**0.300F**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-284 (B) Landfill WP07 Groundwater Monitoring Well								
05/16/2011	**2.50**	**0.300F**	<0.100	<0.100	0.100F	**0.200F**	**0.300F**	<0.100
05/08/2012	**5.20J**	**1.10J**	<0.100	<0.100	**0.400FJ**	**0.300FJ**	**0.400FJ**	<0.100
MAFB-288 (B) Landfill NE Plume Groundwater Monitoring Well								
06/14/2011	<0.100	**0.900J**	<0.100	<0.200	**1.20J**	<0.100	<0.100	<0.300
MAFB-290 (D) Main Base/SAC Groundwater Monitoring Well								
05/17/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-291 (D) Main Base/SAC Groundwater Monitoring Well								
05/17/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-292 (D) Main Base/SAC Groundwater Monitoring Well								
05/19/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-293 (D) Main Base/SAC Groundwater Monitoring Well								
05/19/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-296 (D) Main Base/SAC Groundwater Monitoring Well								
05/17/2011	<0.100	**6.90**	**1.10**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-300 (C) Site 7 Groundwater Monitoring Well								
01/05/2012	0.100F	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-301 (C) AC and W Groundwater Monitoring Well								
05/10/2011	**2.40**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/01/2012	**2.40J**	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
MAFB-306 (C) AC and W Groundwater Monitoring Well								
05/09/2011	**1.70**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-312 (B) Main Base/SAC Groundwater Monitoring Well								
05/09/2011	<0.100	**2.10**	**1.80**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-313 (B) Main Base/SAC Groundwater Monitoring Well								
05/16/2011	<0.100	**1.10**	0.100F	<0.100	<0.100	<0.100	<0.100	<0.100

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SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
MAFB-314 (D) Main Base/SAC Groundwater Monitoring Well								
05/19/2011	**0.500**	**74**	**0.600**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-318 (D) Main Base/SAC Groundwater Monitoring Well								
05/09/2011	<0.100	**4.60**	**5.90**	<0.100	<0.100	<0.100	<0.100	<0.100
11/08/2012	<0.100	**4.40**	**6.60**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-319 (D) Main Base/SAC Groundwater Monitoring Well								
05/12/2011	<0.100	**0.300F**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-320 (D) Main Base/SAC Groundwater Monitoring Well								
05/20/2011	0.100F	**23**	**2.60**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-321 (Dd) Off-Base Groundwater Monitoring Well								
05/12/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-322 (B) Off-Base Groundwater Monitoring Well								
02/10/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
05/12/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/18/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/30/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
02/14/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
05/01/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/30/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/29/2012	<0.0300	**0.0880F**	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
MAFB-323 (B) Off-Base Groundwater Monitoring Well								
02/11/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
05/11/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/18/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/28/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
02/14/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
05/04/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/29/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/27/2012	<0.0300	**0.0760F**	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
MAFB-324 (B) Off-Base Groundwater Monitoring Well								
02/10/2011	<0.0300	**0.170F**	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
05/12/2011	<0.0300	**0.190F**	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/18/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/30/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
02/16/2012	<0.0300	**0.190F**	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
05/04/2012	<0.0300	**0.220**	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/30/2012	<0.0300	**0.190F**	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/29/2012	<0.0300	**0.250**	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
MAFB-326 (D) Off-Base Groundwater Monitoring Well								

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
02/10/2011	<0.0300	<0.0500	**0.150F**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
05/12/2011	<0.0300	<0.0500	**0.160F**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/18/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/30/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
02/14/2012	<0.0300	<0.0500	**0.0860F**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
05/04/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/30/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/29/2012	<0.0300	**0.0890F**	**0.190F**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
MAFB-327 (D) Off-Base Groundwater Monitoring Well								
02/11/2011	<0.0300	**0.290**	**0.210**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
06/01/2011	<0.0300	**0.130F**	**1.30**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/18/2011	<0.0300	**0.340**	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/28/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
02/14/2012	<0.0300	**0.0880F**	**0.960**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
05/04/2012	<0.0300	**0.150F**	**1.30**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/29/2012	<0.0300	<0.0500	**1.90**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/27/2012	<0.0300	**0.140F**	**1.10M**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
MAFB-328 (D) Off-Base Groundwater Monitoring Well								
02/14/2011	<0.0300	**0.140F**	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
06/01/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/18/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/30/2011	<0.0300	**0.160F**	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
02/16/2012	<0.0300	**0.0980F**	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
05/04/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/30/2012	<0.0300	**0.120F**	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/29/2012	<0.0300	**0.180F**	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
MAFB-329 (D) Main Base/SAC Groundwater Monitoring Well								
05/17/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-330 (B) Off-Base Groundwater Monitoring Well								
05/11/2011	**0.440**	**0.710**	**0.580**	<0.0400	**0.170F**	<0.0400	<0.0600	<0.0500
05/04/2012	**0.730**	**0.630**	**0.840**	<0.0400	**0.210F**	<0.0400	<0.0600	<0.0500
MAFB-331 (B) Main Base/SAC Groundwater Monitoring Well								
05/10/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-332 (D) Main Base/SAC Groundwater Monitoring Well								
05/12/2011	<0.100	**1.80**	**0.700**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-336 (D) Off-Base Groundwater Monitoring Well								
05/12/2011	**0.0810F**	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
MAFB-337 (Dd) Off-Base Groundwater Monitoring Well								
02/10/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
05/12/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/18/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/30/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
02/14/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
05/04/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/30/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/29/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
MAFB-338 (Dd) Off-Base Groundwater Monitoring Well								
02/10/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
06/01/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/18/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/30/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
02/16/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
05/04/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/30/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/29/2012	<0.0300	**0.110F**	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
MAFB-339 (WT/B) Main Base/SAC Groundwater Monitoring Well								
06/07/2011	**2.40**	**0.300F**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-340 (WT/B) Main Base/SAC Groundwater Monitoring Well								
06/07/2011	**0.300F**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-346Bd (Bd) Main Base/SAC Groundwater Monitoring Well								
06/17/2011	**0.200F**	**0.400F**	**1.30**	<0.200	<0.100	<0.100	<0.100	<0.100
MAFB-346Bs (Bs) Main Base/SAC Groundwater Monitoring Well								
06/17/2011	<0.100	**4.80**	**2**	<0.200	<0.100	<0.100	<0.100	<0.100
MAFB-349 (LMT) Off-Base Groundwater Monitoring Well								
02/14/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
06/01/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/18/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/28/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
02/14/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
05/04/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/29/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/27/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
MAFB-352D (Dd) Main Base/SAC Groundwater Monitoring Well								
05/17/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-356B (B) Main Base/SAC Groundwater Monitoring Well								
05/11/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
MAFB-357D (D) Main Base/SAC Groundwater Monitoring Well								
05/13/2011	**0.700**	**1.20**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
MAFB-357Dd (Dd) Main Base/SAC Groundwater Monitoring Well								
05/13/2011	**1**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-357Ds (Ds) Main Base/SAC Groundwater Monitoring Well								
05/13/2011	**0.500**	<0.100	**0.200F**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-358D (D) Main Base/SAC Groundwater Monitoring Well								
05/20/2011	**0.200F**	**6.30**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-359 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
05/27/2011	**1.40**	**0.500F**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-361 (B) Main Base/SAC Groundwater Monitoring Well								
05/25/2011	**0.700**	**0.600**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-362 (B) Main Base/SAC Groundwater Monitoring Well								
06/20/2011	**5.30**	**3.80**	**3.50**	0.200JF	**0.200F**	<0.100	<0.100	<0.100
MAFB-363 (B) Main Base/SAC Groundwater Monitoring Well								
06/02/2011	**0.300F**	**5.50**	**0.300F**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-364B (B) Main Base/SAC Groundwater Monitoring Well								
05/23/2011	**1**	**8.30**	**0.300F**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-364D (D) Main Base/SAC Groundwater Monitoring Well								
05/23/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
MAFB-365B (B) Main Base/SAC Groundwater Monitoring Well								
05/17/2011	**0.500**	**9.70**	**0.300F**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-365D (D) Main Base/SAC Groundwater Monitoring Well								
06/20/2011	0.100F	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
MAFB-366D (D) Main Base/SAC Groundwater Monitoring Well								
05/16/2011	<0.100	**24**	**2.70**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-368B (B) Main Base/SAC Groundwater Monitoring Well								
06/16/2011	<0.100	**2.10**	**1.40**	<0.200	<0.100	<0.100	<0.100	<0.100
MAFB-368D (D) Main Base/SAC Groundwater Monitoring Well								
06/16/2011	<0.100	**2.10**	**0.400F**	<0.200	<0.100	<0.100	<0.100	<0.100
MAFB-371C (C) Site 7 Groundwater Monitoring Well								
06/09/2011	**2.30**	**0.200F**	<0.100	0.100F	0.100F	<0.100	<0.100	<0.100
MAFB-372B (B) Site 7 Groundwater Monitoring Well								
06/15/2011	**5.50**	**1**	<0.100	<0.200	**0.400F**	<0.100	<0.100	<0.300
MAFB-373C (C) Site 7 Groundwater Monitoring Well								
05/13/2011	**9.50**	**1.20**	<0.100	<0.100	**0.300F**	0.100F	<0.100	<0.100
MAFB-375 (D) Main Base/SAC Groundwater Monitoring Well								
06/20/2011	<0.100	**0.800**	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
MAFB-376 (D) Main Base/SAC Groundwater Monitoring Well								

TABLE A-1

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SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
06/01/2011	<0.100	**15**	**0.500F**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-377 (D) Main Base/SAC Groundwater Monitoring Well								
06/03/2011	**2.70**	**4.20**	**0.900**	<0.100	<0.100	<0.100	<0.100	<0.100
12/18/2012	**2.80**	**2.20**	**2.20**	<0.100	**0.200F**	<0.100	<0.100	<0.100
MAFB-378B (B) Main Base/SAC Groundwater Monitoring Well								
02/25/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
05/18/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
08/17/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
12/01/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
02/16/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/09/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
08/29/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
11/30/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-378D (D) Main Base/SAC Groundwater Monitoring Well								
02/10/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
05/18/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.200
08/17/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
12/01/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
02/16/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/09/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
08/29/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
11/30/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-379D (D) Main Base/SAC Groundwater Monitoring Well								
05/17/2011	<0.100	**3.40**	**0.400F**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-380B (B) Main Base/SAC Groundwater Monitoring Well								
05/13/2011	<0.100	**0.400F**	0.100F	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-380D (D) Main Base/SAC Groundwater Monitoring Well								
06/01/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-381B (B) Main Base/SAC Groundwater Monitoring Well								
05/10/2011	**0.200F**	**3.80**	**0.500F**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-381D (D) Main Base/SAC Groundwater Monitoring Well								
05/10/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-382B (B) Main Base/SAC Groundwater Monitoring Well								
05/09/2011	<0.100	<0.100	<0.100	<0.100	**0.400F**	<0.100	<0.100	<0.100
MAFB-383B (B) Main Base/SAC Groundwater Monitoring Well								
05/18/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.200
MAFB-384B (WT/B) Main Base/SAC Groundwater Monitoring Well								
05/27/2011	**0.300F**	**0.300F**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100

TABLE A-1

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FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
MAFB-387B (B) Main Base/SAC Groundwater Monitoring Well								
05/09/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-391 (C) Site 7 Groundwater Monitoring Well								
05/17/2011	**0.200F**	**0.500**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/07/2012	**2.20**	**0.300F**	<0.100	<0.100	**0.300F**	**0.300F**	**0.300F**	<0.300
MAFB-392 (C) Site 7 Groundwater Monitoring Well								
05/16/2011	**4.60**	**1.10**	<0.100	<0.100	**0.700**	**0.500**	**0.800F**	<0.200
MAFB-393 (C) Site 7 Groundwater Monitoring Well								
05/12/2011	**1.90**	**0.200F**	<0.100	<0.100	**1.40**	**0.700**	**0.200F**	<0.100
MAFB-394 (C) Site 7 Groundwater Monitoring Well								
05/12/2011	**13**	**1.80**	<0.100	**0.300F**	**0.700**	**0.300F**	<0.100	<0.100
MAFB-395 (C) Site 7 Groundwater Monitoring Well								
05/12/2011	**5.70**	**1.10**	<0.100	<0.100	**0.200F**	<0.100	<0.100	<0.100
MAFB-396 (B) Site 7 Groundwater Monitoring Well								
05/12/2011	**0.900**	0.100F	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-397 (Dd) Main Base/SAC Groundwater Monitoring Well								
02/10/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
05/18/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.200
08/17/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
12/01/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
02/16/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/09/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.100F
08/29/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
11/30/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-398 (WT/B) Landfill LF03/NE Plume Groundwater Monitoring Well								
05/26/2011	**0.200JF**	**1J**	<0.100	<0.100	**0.400JF**	<0.100	<0.100	<0.100
05/08/2012	**0.800**	**6.40**	<0.100	<0.100	**0.700**	<0.100	<0.100	<0.100
MAFB-398C (C) Landfill LF03/NE Plume Groundwater Monitoring Well								
05/26/2011	**1.40**	**6.10**	<0.100	<0.100	**9.90**	0.100F	**0.600F**	<0.100
04/30/2012	**0.900**	**3.70**	<0.100	<0.200	**6.60**	<0.100	**0.500F**	<0.300
MAFB-399 (C) Landfill LF03/NE Plume Groundwater Monitoring Well								
06/13/2011	**0.500F**	**2.30**	<0.100	<0.200	**2.30**	<0.100	<0.100	<0.300
05/01/2012	**0.700**	**4.30**	<0.100	<0.200	**3**	<0.100	<0.100	<0.300
MAFB-400 (C) Landfill LF04/NE Plume Groundwater Monitoring Well								
05/18/2011	**1.20**	**5.50**	<0.100	<0.100	**3.60**	<0.100	<0.200	<0.200
05/04/2012	**1.20**	**5J**	<0.100	<0.200	**3.50**	<0.100	<0.100	<0.300
MAFB-403 (WT/C) AC and W Groundwater Monitoring Well								
05/08/2012	**4.70J**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
MAFB-404 (WT/B) Main Base/SAC Groundwater Monitoring Well								
05/13/2011	**1.10**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-405 (WT/B) Main Base/SAC Groundwater Monitoring Well								
05/13/2011	**22**	**2.30**	**0.800**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-407 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
06/07/2011	<0.100	**0.400F**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
03/05/2012	<0.100	**0.400JF**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-410 (WT/A) Main Base/SAC Groundwater Monitoring Well								
06/03/2011	<0.100	**3.50**	**1.50**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-411 (WT/B) Main Base/SAC Groundwater Monitoring Well								
05/19/2011	**0.300F**	**1.20**	<0.100	**3.20**	<0.100	<0.100	<0.100	<0.100
MAFB-413 (WT/B) Landfill Groundwater Monitoring Well								
05/19/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/02/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-414 (WT) Main Base/SAC Groundwater Monitoring Well								
06/17/2011	**6.60**	**1.30**	**3.40**	<0.200	**0.300F**	<0.100	<0.100	<0.100
MAFB-417 (WT/B) Main Base/SAC Groundwater Monitoring Well								
06/01/2011	**13**	**0.800**	**1.50**	<0.100	**1.40**	**0.500**	**0.300F**	<0.100
MAFB-418 (WT) Main Base/SAC Groundwater Monitoring Well								
06/01/2011	**34**	**4.50**	**4.30**	**6.40**	**0.800**	<0.100	<0.100	<0.100
MAFB-419 (WT/B) Main Base/SAC Groundwater Monitoring Well								
06/17/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
11/08/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-420 (WT) Main Base/SAC Groundwater Monitoring Well								
05/19/2011	**78**	**47**	**0.300F**	**3**	**1.30**	<0.100	<0.100	<0.100
MAFB-421 (WT/B) Main Base/SAC Groundwater Monitoring Well								
03/05/2012	**0.300F**	**2**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-422 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
05/18/2011	**0.700**	<0.100	<0.100	<0.100	**0.200F**	<0.100	<0.200	<0.200
MAFB-423B (B) Main Base/SAC Groundwater Monitoring Well								
05/18/2011	**5.90**	0.100F	**0.400F**	**0.200F**	**1**	<0.100	<0.200	<0.200
MAFB-425 (WT) Main Base/SAC Groundwater Monitoring Well								
06/07/2011	**3**	**1**	<0.100	<0.200	**0.400F**	<0.100	<0.100	<0.300
MAFB-426 (B) Main Base/SAC Groundwater Monitoring Well								
05/10/2011	<0.100	<0.100	**0.200F**	<0.200	<0.100	<0.100	<0.100	<0.100
MAFB-427 (B) Main Base/SAC Groundwater Monitoring Well								
05/09/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100

TABLE A-1

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SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
MAFB-428 (WT/B) Main Base/SAC Groundwater Monitoring Well								
06/20/2011	<0.100	**0.300F**	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
MAFB-429Bd (Bd) Main Base/SAC Groundwater Monitoring Well								
06/07/2011	**28**	**4.70**	<0.100	**0.700**	**1.50**	<0.100	<0.100	<0.300
MAFB-429Bs (Bs) Main Base/SAC Groundwater Monitoring Well								
05/19/2011	**24**	**5.10**	0.100F	**0.600**	**1.20**	<0.100	<0.100	<0.100
MAFB-430 (LMT) Main Base/SAC Groundwater Monitoring Well								
05/20/2011	<0.100	**3.40**	**0.600**	<0.100	<0.100	<0.100	<0.100	<0.100
05/10/2012	<0.100	**1.90**	**0.500F**	<0.100	<0.100	<0.100	<0.100	<0.300
MAFB-431Bd (Bd) Main Base/SAC Groundwater Monitoring Well								
05/20/2011	**18**	**2.80**	0.100F	**0.500F**	**1**	<0.100	<0.100	<0.100
MAFB-432 (WT/C) AC and W Groundwater Monitoring Well								
05/10/2011	**6.10**	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
MAFB-434Bd (Bd) Main Base/SAC Groundwater Monitoring Well								
06/07/2011	**10**	**2.10**	<0.100	<0.200	**0.500**	<0.100	<0.100	<0.300
MAFB-435 (Dd) Main Base/SAC Groundwater Monitoring Well								
02/14/2011	<0.100	**16**	**1.80**	<0.200	<0.100	<0.100	<0.100	<0.100
05/17/2011	<0.100	**15**	**1.30**	<0.100	<0.100	<0.100	<0.100	**0.200F**
08/17/2011	<0.100	**5.40**	**1**	<0.100	<0.100	<0.100	<0.100	<0.100
11/28/2011	<0.100	**5.80**	**0.900**	<0.200	<0.100	<0.100	<0.100	<0.300
03/05/2012	<0.100	**8.70**	**1.60**	<0.100	<0.100	<0.100	<0.100	<0.300
05/09/2012	<0.100	**9**	**1.20**	<0.100	<0.100	<0.100	<0.100	<0.100
08/29/2012	<0.100	**7.40J**	**1.30J**	<0.100	<0.100	<0.100	<0.100	<0.100
11/30/2012	<0.100	**10**	**1.50**	<0.100	<0.100	<0.100	<0.100	0.100F
MAFB-436 (WT) Main Base/SAC Groundwater Monitoring Well								
05/27/2011	**1.20**	**4.20**	0.100F	<0.100	<0.100	<0.100	<0.100	**0.200F**
05/04/2012	**0.400**	**4.80**	**0.200F**	<0.200	<0.100	<0.100	<0.100	<0.300
MAFB-437Dd (Dd) Main Base/SAC Groundwater Monitoring Well								
05/19/2011	0.100BF	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-437Ds (Ds) Main Base/SAC Groundwater Monitoring Well								
05/19/2011	<0.100	**1.50**	**0.300F**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-438 (WT) Main Base/SAC Groundwater Monitoring Well								
05/20/2011	**0.400F**	**3.80**	<0.100	<0.100	**1.10**	<0.100	<0.100	<0.100
MAFB-439 (WT) Main Base/SAC Groundwater Monitoring Well								
06/17/2011	<0.100	**69**	**8.10**	<0.200	<0.100	<0.100	<0.100	<0.100
MAFB-441 (D) Main Base/SAC Groundwater Monitoring Well								
05/18/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.200
MAFB-442 (D) Main Base/SAC Groundwater Monitoring Well								

TABLE A-1

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Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
06/02/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	**0.300F**
MAFB-443 (D) Main Base/SAC Groundwater Monitoring Well								
05/09/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-444 (B) Site 7 Groundwater Monitoring Well								
06/09/2011	**1.90**	**0.400F**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-445 (B) Site 7 Groundwater Monitoring Well								
06/09/2011	**1.90**	**0.400F**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-446 (C) Site 7 Groundwater Monitoring Well								
05/13/2011	**34**	**4.40**	<0.100	**0.800**	**1.70**	**0.600**	<0.100	<0.100
MAFB-447 (C) Site 7 Groundwater Monitoring Well								
05/13/2011	**15**	**1.60**	<0.100	**0.500F**	**0.300F**	<0.100	<0.100	<0.100
MAFB-448 (B) Site 7 Groundwater Monitoring Well								
05/13/2011	**5.90**	**1**	<0.100	**0.200F**	0.100F	<0.100	<0.100	<0.100
05/07/2012	**4.50**	**0.900**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.300
MAFB-449Bd (Bd) Main Base/SAC Groundwater Monitoring Well								
05/12/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-449Bs (Bs) Main Base/SAC Groundwater Monitoring Well								
05/12/2011	**0.900**	**0.300F**	<0.100	<0.100	<0.100	<0.100	<0.200	<0.200
MAFB-450 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
06/07/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
MAFB-451 (B) Main Base/SAC Groundwater Monitoring Well								
06/17/2011	**11**	**3.10**	**0.300F**	0.200F	**0.700**	<0.100	<0.100	<0.100
MAFB-452B (B) Main Base/SAC Groundwater Monitoring Well								
05/19/2011	**49**	**12**	**0.500F**	**0.900**	**1.50**	<0.100	<0.100	<0.100
MAFB-452Bu (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
05/18/2011	**11**	**3.40**	<0.100	**0.200F**	**1.50**	<0.100	<0.200	<0.200
MAFB-453 (WT) AC and W Groundwater Monitoring Well								
05/12/2011	**23**	<0.100	<0.100	<0.100	**0.800**	<0.100	<0.200	<0.200
05/10/2012	**28**	<0.100	<0.100	<0.100	**0.600**	<0.100	<0.100	<0.300
MAFB-453C (C) AC and W Groundwater Monitoring Well								
05/12/2011	**0.900**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.200
MAFB-454 (WT) AC and W Groundwater Monitoring Well								
05/11/2011	**1.50**	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
MAFB-454C (C) AC and W Groundwater Monitoring Well								
05/11/2011	**2.30**	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
MAFB-455 (WT) AC and W Groundwater Monitoring Well								
05/09/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100

TABLE A-1

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FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
MAFB-456 (WT) AC and W Groundwater Monitoring Well								
05/11/2011	**0.400F**	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
MAFB-456C (C) AC and W Groundwater Monitoring Well								
05/11/2011	**0.900**	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
MAFB-457Bd (Bd) Main Base/SAC Groundwater Monitoring Well								
05/12/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.200
MAFB-457Bs (Bs) Main Base/SAC Groundwater Monitoring Well								
05/12/2011	**11**	**2.10**	<0.100	**0.200F**	**0.600**	<0.100	<0.200	<0.200
MAFB-458Bd (Bd) Main Base/SAC Groundwater Monitoring Well								
05/12/2011	**7.50**	**0.900**	<0.100	**0.400F**	**0.700**	<0.100	<0.100	<0.100
MAFB-458Bs (Bs) Main Base/SAC Groundwater Monitoring Well								
06/09/2011	**2.30**	**0.400JF**	<0.100	<0.200	**0.300JF**	<0.100	<0.100	<0.100
MAFB-459D (D) Main Base/SAC Groundwater Monitoring Well								
05/10/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
MAFB-460Bd (D) Main Base/SAC Groundwater Monitoring Well								
02/16/2011	**0.300F**	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	**0.200F**
06/16/2011	**0.200F**	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
08/16/2011	**0.300F**	<0.100	<0.100	<0.100	**0.200F**	<0.100	<0.100	<0.100
11/28/2011	**0.200F**	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
02/15/2012	**0.500**	<0.100	<0.100	<0.100	**0.200F**	<0.100	<0.100	<0.100
05/07/2012	**0.500**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.300
09/12/2012	**0.900**	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
11/26/2012	**0.300F**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-460Bs (Bs) Main Base/SAC Groundwater Monitoring Well								
02/16/2011	**2.70**	**0.400F**	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
06/16/2011	**2.50**	**0.300F**	<0.100	<0.200	**0.200F**	<0.100	<0.100	<0.300
08/16/2011	**2.30**	**0.400F**	<0.100	<0.100	**0.300F**	<0.100	<0.100	<0.100
11/28/2011	**1.90**	**0.300F**	<0.100	<0.200	**0.200F**	<0.100	<0.100	<0.300
02/15/2012	**2.20**	**0.400F**	<0.100	<0.100	**0.300F**	<0.100	<0.100	<0.100
05/07/2012	**2.20**	**0.300F**	<0.100	<0.100	**0.200F**	<0.100	<0.100	<0.300
08/28/2012	**1.80J**	**0.300FJ**	<0.100	<0.100	**0.200FJ**	<0.100	<0.100	<0.300
11/26/2012	**1.70**	**0.200F**	<0.100	<0.100	**0.200FJ**	<0.100	<0.100	<0.100
MAFB-461Bd (Bd) Main Base/SAC Groundwater Monitoring Well								
02/16/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
06/16/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
08/16/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
11/28/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
02/15/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100

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SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
05/07/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.300
08/28/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.300
11/26/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-461Bs (Bs) Main Base/SAC Groundwater Monitoring Well								
02/16/2011	**0.200F**	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
06/16/2011	**0.200F**	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
08/16/2011	**0.200F**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
11/28/2011	**0.200F**	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
02/15/2012	**0.200F**	<0.100	<0.100	<0.100	0.100F	<0.100	<0.100	<0.100
05/07/2012	**0.300F**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.300
08/28/2012	**0.300FJ**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.300
11/26/2012	**0.200F**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-462 (D) Main Base/SAC Groundwater Monitoring Well								
12/08/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.200
02/15/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	**0.200F**
05/07/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.300
08/28/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.300
11/26/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-463D (D) Main Base/SAC Groundwater Monitoring Well								
12/08/2011	<0.100	**0.800**	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
02/14/2012	<0.100	**9.20**	**0.400F**	<0.100	<0.100	<0.100	<0.100	<0.100
05/09/2012	**0.300F**	**10**	**0.300F**	<0.100	<0.100	<0.100	<0.100	<0.300
08/29/2012	**0.300F**	**11**	**0.400F**	<0.100	<0.100	<0.100	<0.100	<0.100
11/26/2012	0.100F	**17**	**2.70**	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-463Dd (Dd) Main Base/SAC Groundwater Monitoring Well								
12/08/2011	<0.100	**0.200JF**	<0.100	<0.100	<0.100	<0.100	<0.200	<0.200
02/14/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/09/2012	<0.100	**0.200F**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.300
08/29/2012	<0.100	0.100F	<0.100	<0.100	<0.100	<0.100	<0.100	<0.300
11/26/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MAFB-464 (B) Main Base/SAC Groundwater Monitoring Well								
12/08/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.200
02/15/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/07/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.300
08/28/2012	**1**	0.100F	<0.100	<0.100	<0.100	<0.100	<0.100	<0.300
11/26/2012	**1.10**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MBS 19EW01 (B) Main Base/SAC Groundwater Extraction Well								
06/16/2011	<0.100	**0.600**	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
05/07/2012	<0.100	**0.800**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.300

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
MBS 19MW01 (Bu) Main Base/SAC Groundwater Extraction Well								
06/17/2011	<0.100	**1.70**	**0.300F**	<0.200	<0.100	<0.100	<0.100	<0.300
05/09/2012	<0.100	**1.50**	**0.200F**	<0.100	<0.100	<0.100	<0.100	<0.300
MBS 39ABuB (WT/B) Main Base/SAC Groundwater Extraction Well								
06/06/2011	0.100F	**5.30**	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
03/05/2012	<0.100	**5.30**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.300
MBS 39EW02 (B) Main Base/SAC Groundwater Extraction Well								
05/04/2012	0.100F	**1.90**	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
MBS 39MW02 (WT) Main Base/SAC Groundwater Extraction Well								
03/06/2012	**0.500F**	**0.200F**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MBS 39MW03 (Bu) Main Base/SAC Groundwater Extraction Well								
05/27/2011	0.100F	**0.500**	<0.100	<0.100	0.100F	<0.100	<0.100	<0.100
05/04/2012	<0.100	**2.10**	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
MBS 39MW04 (Bu) Main Base/SAC Groundwater Extraction Well								
03/05/2012	<0.100	**2.80J**	<0.400	<0.100	<0.100	<0.100	<0.100	<0.100
MBS EW-10B (B) Main Base/SAC Groundwater Extraction Well								
06/06/2011	**0.600**	**11**	**1**	<0.100	<0.100	<0.100	<0.100	<0.100
MBS EW-11B (B) Main Base/SAC Groundwater Extraction Well								
06/06/2011	<0.100	**2.40**	**1.60**	<0.100	<0.100	<0.100	<0.100	<0.100
MBS EW-12AB (WT/B) Main Base/SAC Groundwater Extraction Well								
06/06/2011	<0.100	**0.700**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/11/2012	<0.100	**0.900**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.300
MBS EW-12B (B) Main Base/SAC Groundwater Extraction Well								
06/06/2011	<0.100	<0.100	**0.300F**	<0.100	<0.100	<0.100	<0.100	<0.100
MBS EW-13BuB (Bu) Main Base/SAC Groundwater Extraction Well								
05/19/2011	**13**	**2.50**	<0.100	**0.400F**	**0.800**	<0.100	<0.100	<0.100
MBS EW1ABu (WT/Bu) Main Base/SAC Groundwater Extraction Well								
05/25/2011	**52**	**14**	**0.300F**	**1.50**	**0.300F**	<0.100	<0.100	<0.100
MBS EW-1B (B) Main Base/SAC Groundwater Extraction Well								
05/23/2011	**0.700**	**5.10**	**0.300F**	<0.100	<0.100	<0.100	<0.100	<0.100
MBS EW-1Bu (WT/Bu) Main Base/SAC Groundwater Extraction Well								
05/24/2011	**1.50**	**0.500F**	<0.100	<0.100	**0.800**	<0.100	<0.100	<0.100
MBS EW-1D (D) Main Base/SAC Groundwater Extraction Well								
06/06/2011	**0.400F**	**37**	**0.800**	<0.200	<0.100	<0.100	<0.100	<0.300
MBS EW2ABu (WT/Bu) Main Base/SAC Groundwater Extraction Well								
06/06/2011	**46**	**16**	**6.80**	**1.50**	**0.400F**	<0.100	<0.100	<0.300
MBS EW-2AR (WT/A) Main Base/SAC Groundwater Extraction Well								
06/06/2011	**18**	**8**	**12**	**1.10J**	**0.500F**	<0.100	<0.100	<0.300

TABLE A-1

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FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
05/10/2012	**15**	**7.50**	**12**	**1.20**	**0.400F**	0.100F	<0.100	<0.300
MBS EW-2B (B) Main Base/SAC Groundwater Extraction Well								
06/06/2011	**5.20**	**21**	**0.200F**	<0.200	**0.200F**	<0.100	<0.100	<0.300
MBS EW-2D (D) Main Base/SAC Groundwater Extraction Well								
05/23/2011	**1.90**	**23**	**2**	<0.100	<0.100	<0.100	<0.100	<0.100
MBS EW-3B (B) Main Base/SAC Groundwater Extraction Well								
06/06/2011	**3.70**	**9.50**	**0.600**	<0.200	<0.100	<0.100	<0.100	<0.300
MBS EW-3D (D) Main Base/SAC Groundwater Extraction Well								
06/06/2011	**2.20**	**51**	**1.50**	<0.200	<0.100	<0.100	<0.100	<0.300
MBS EW4ABu (WT/Bu) Main Base/SAC Groundwater Extraction Well								
06/06/2011	**22**	**5.80**	**11**	**1.90**	**0.900**	<0.100	<0.100	<0.300
MBS EW-4B (B) Main Base/SAC Groundwater Extraction Well								
06/03/2011	**0.300F**	**3.40**	**0.200F**	<0.100	<0.100	<0.100	<0.100	<0.100
MBS EW-4Bu (WT/Bu) Main Base/SAC Groundwater Extraction Well								
06/03/2011	**19**	**6.60**	**0.400F**	**0.300F**	**0.600**	<0.100	<0.100	<0.100
MBS EW-4D (D) Main Base/SAC Groundwater Extraction Well								
06/06/2011	**0.500**	**24**	**0.200F**	<0.200	<0.100	<0.100	<0.100	<0.100
MBS EW5ABu (WT/Bu) Main Base/SAC Groundwater Extraction Well								
06/20/2011	**21**	**7.20**	**29**	**2.40**	**0.300F**	<0.100	<0.100	<0.100
MBS EW-5B (B) Main Base/SAC Groundwater Extraction Well								
06/06/2011	<0.100	**4.60**	**0.200JF**	<0.200	<0.100	<0.100	<0.100	<0.100
05/10/2012	<0.100	**4.90J**	**0.400FJ**	<0.100	<0.100	<0.100	<0.100	<0.100
MBS EW-5D (D) Main Base/SAC Groundwater Extraction Well								
06/20/2011	<0.100	**5**	**0.600**	<0.200	<0.100	<0.100	<0.100	<0.100
MBS EW6ABu (WT) Main Base/SAC Groundwater Extraction Well								
05/27/2011	**0.600**	**0.500**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/15/2012	**0.200F**	**0.200F**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.300
MBS EW-6B (B) Main Base/SAC Groundwater Extraction Well								
06/06/2011	**0.200F**	**1.90**	**0.200F**	<0.200	<0.100	<0.100	<0.100	<0.100
05/10/2012	**0.300F**	**1.90**	0.100F	<0.100	<0.100	<0.100	<0.100	<0.300
MBS EW-6D (D) Main Base/SAC Groundwater Extraction Well								
06/06/2011	<0.100	**2.80**	**0.800**	<0.200	<0.100	<0.100	<0.100	<0.100
MBS EW7ABu (WT/Bu) Main Base/SAC Groundwater Extraction Well								
05/20/2011	<0.100	**2.70**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/15/2012	**0.300F**	**1.50**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.300
MBS EW-7B (B) Main Base/SAC Groundwater Extraction Well								
05/24/2011	**0.300F**	**5**	**0.200JF**	<0.100	<0.100	<0.100	<0.100	<0.100
MBS EW-8B (B) Main Base/SAC Groundwater Extraction Well								

TABLE A-1

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Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
06/06/2011	<0.100	**1.20**	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
05/15/2012	0.100F	**2.80**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.300
MBS EW-9B (B) Main Base/SAC Groundwater Extraction Well								
05/24/2011	**4.90**	**1.70**	**0.400F**	0.100F	**0.500**	<0.100	<0.100	<0.100
MBS PTE AF (after filter) Treatment System Effluent								
01/04/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
02/02/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
03/01/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
04/05/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
05/03/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
06/07/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	<0.200
07/05/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
08/02/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
MBS PTI (NA) Treatment System Influent								
02/02/2011	**3.60**	**8.20**	**0.800**	<0.200	0.100F	<0.100	<0.100	<0.100
05/03/2011	**3.50**	**9.40**	**0.900**	<0.100	<0.100	<0.100	<0.100	<0.300
08/02/2011	**3.80**	**9.60**	**0.900**	<0.200	<0.100	<0.100	<0.100	<0.100
10/04/2011	**3.60**	**12**	**0.800**	0.100F	**0.200F**	<0.100	<0.200	<0.200
11/02/2011	**0.800**	**7.90**	**0.600**	<0.100	<0.100	<0.100	<0.100	<0.100
12/06/2011	**3.50**	**8.90**	**0.800**	<0.100	**0.200F**	<0.100	<0.100	<0.100
01/03/2012	**3.30**	**8.70**	**0.700**	<0.100	<0.100	<0.100	<0.100	<0.100
04/03/2012	**3.60**	**9.40**	**0.700**	<0.200	**0.200F**	<0.100	<0.100	<0.300
07/02/2012	**3.20**	**7.30**	**0.800**	<0.200	<0.100	<0.100	<0.100	<0.100
10/03/2012	**3.50**	**8.50**	**0.700**	<0.100	**0.200F**	<0.100	<0.100	<0.100
MBS PZ-13 (Dd) Main Base/SAC Groundwater Piezometer								
06/14/2011	<0.100	0.100F	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
MBS PZ-38 (B) Main Base/SAC Groundwater Piezometer								
06/15/2011	**0.600**	**2.90**	0.100JF	<0.200	<0.100	<0.100	<0.100	<0.300
MBS PZ-39 (B) Main Base/SAC Groundwater Piezometer								
05/13/2011	<0.100	**2.70**	**0.200F**	<0.100	<0.100	<0.100	<0.100	<0.100
MBS PZ-42D (B) Main Base/SAC Groundwater Piezometer								
05/13/2011	<0.100	**6.20**	**0.400F**	<0.100	<0.100	<0.100	<0.100	<0.100
MBS PZ-42S (B) Main Base/SAC Groundwater Piezometer								
05/13/2011	<0.100	**2.70**	0.100F	<0.100	<0.100	<0.100	<0.100	<0.100
05/10/2012	<0.100	**2.70**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.300
MBS PZ-44 (B) Main Base/SAC Groundwater Piezometer								
05/27/2011	**1.60**	**0.600**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MBS PZ-50S (Dd) Main Base/SAC Groundwater Piezometer								

TABLE A-1

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Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
06/08/2011	0.100F	**63**	**0.600**	<0.200	<0.100	<0.100	<0.100	<0.300
MBS PZ-51 (D) Main Base/SAC Groundwater Piezometer								
05/20/2011	**2.30**	**34**	**1.80**	<0.100	0.100F	<0.100	<0.100	<0.100
MBS PZ-52 (D) Main Base/SAC Groundwater Piezometer								
06/08/2011	0.100F	**3.80**	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
MBS PZ-53 (D) Main Base/SAC Groundwater Piezometer								
06/08/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
MBS PZ-54 (D) Main Base/SAC Groundwater Piezometer								
05/19/2011	0.100F	**5.80**	**0.200F**	<0.100	<0.100	<0.100	<0.100	<0.100
MBS PZ-55B (B) Main Base/SAC Groundwater Piezometer								
06/17/2011	**9.20**	**4.50J**	**1.30**	<0.200	**0.200F**	<0.100	<0.100	<0.300
MBS PZ-55Bu (Bu) Main Base/SAC Groundwater Piezometer								
05/24/2011	**20**	**6.80**	**0.500F**	**0.500**	**1.20**	<0.100	<0.100	<0.100
OFB-04 (NA) Off-Base Groundwater Production Well								
02/11/2011	<0.0300	<0.0500	**0.0810F**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
06/08/2011	<0.0300	<0.0500	**0.230**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
07/26/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/17/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
09/27/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
10/26/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/29/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
12/28/2011	<0.0300	<0.0500	**0.110F**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
01/25/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
02/29/2012	<0.0300	<0.0500	**0.120F**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
05/30/2012	<0.0300	<0.0500	**0.170F**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
06/27/2012	<0.0300	<0.0500	**0.520**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
07/20/2012	<0.0300	<0.0500	**0.350**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
07/25/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/01/2012	<0.0300	<0.0500	**0.660**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
10/12/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/28/2012	<0.0300	**0.0890F**	**0.100F**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
12/18/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
OFB-06 (NA) Off-Base Groundwater Production Well								
06/14/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
05/22/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
OFB-07 (NA) Off-Base Groundwater Production Well								
06/14/2011	**2.20**	**0.300F**	<0.100	<0.200	**0.200F**	<0.100	<0.100	<0.300
05/22/2012	**1.60**	**0.300F**	<0.100	<0.100	**0.300F**	<0.100	<0.100	<0.100

TABLE A-1

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SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
OFB-12 (NA) Off-Base Groundwater Production Well								
06/14/2011	**2.20**	**0.200F**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/22/2012	**1.70**	**1.10**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
OFB-17 (NA) Off-Base Groundwater Production Well								
06/14/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/29/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
OFB-24 (NA) Off-Base Groundwater Production Well								
06/15/2011	**0.600**	**1.50**	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
05/22/2012	**0.700**	**2**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
OFB-27 (NA) Off-Base Groundwater Production Well								
08/17/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/29/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
02/29/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
05/30/2012	**0.0430F**	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/28/2012	<0.0300	**0.0990F**	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
OFB-31 (NA) Off-Base Groundwater Production Well								
02/11/2011	<0.0300	**0.240**	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
06/08/2011	<0.0300	**0.110F**	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/17/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/29/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
OFB-32 (NA) Off-Base Groundwater Production Well								
02/11/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
06/08/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/17/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/29/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
02/29/2012	<0.0300	**0.0570F**	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
03/28/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
05/30/2012	<0.0300	**0.0530F**	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
09/12/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/28/2012	<0.0300	**0.100F**	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
OFB-39 (NA) Off-Base Groundwater Production Well								
06/13/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
05/21/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
OFB-40 (NA) Off-Base Groundwater Production Well								
06/14/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/22/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
OFB-43 (NA) Off-Base Groundwater Production Well								
06/13/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
05/21/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
OFB-47 (NA) Off-Base Groundwater Production Well								
06/13/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
05/22/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
OFB-48 (NA) Off-Base Groundwater Production Well								
06/13/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/22/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
OFB-49 (NA) Off-Base Groundwater Production Well								
02/11/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
06/08/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/17/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/29/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
06/27/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
09/12/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/28/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
OFB-51 (NA) Off-Base Groundwater Production Well								
02/22/2011	**0.110F**	**0.0590F**	**0.360**	<0.0400	**0.120F**	<0.0400	<0.0600	<0.0500
05/31/2011	<0.0300	<0.0500	**1.20**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
06/08/2011	<0.0300	<0.0500	**0.520**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/30/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
09/27/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
10/26/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/29/2011	<0.0300	<0.0500	**0.640**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
01/25/2012	<0.0300	<0.0500	**0.460**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
05/30/2012	<0.0300	<0.0500	**0.850**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
09/26/2012	<0.0300	<0.0500	**1.50**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/28/2012	<0.0300	**0.0620F**	**0.590**	<0.0400	**0.0310F**	<0.0400	<0.0600	<0.0500
OFB-51/52I (NA) Off-Base Treatment System Influent								
01/25/2011	<0.0300	**0.0920F**	**0.450**	<0.0400	**0.120F**	<0.0400	<0.0600	<0.0500
02/22/2011	**0.0870F**	<0.0500	**0.500**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
03/29/2011	**0.0970F**	**0.120F**	**0.350**	<0.0400	**0.180F**	<0.0400	<0.0600	<0.0500
04/26/2011	**0.430**	<0.0500	**0.660**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
05/31/2011	**0.0900F**	<0.0500	**1.20**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
06/08/2011	<0.0300	<0.0500	**0.360J**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
06/28/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
07/26/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/30/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/29/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
12/28/2011	<0.0300	<0.0500	**0.360**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
01/25/2012	<0.0300	<0.0500	**0.440**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
02/29/2012	**0.0880F**	**0.0740F**	**0.310**	<0.0400	**0.170F**	<0.0400	<0.0600	<0.0500
03/28/2012	**0.190F**	**0.160F**	**0.260**	<0.0400	**0.240F**	<0.0400	<0.0600	<0.0500
04/24/2012	**0.150F**	**0.0530F**	**0.220**	<0.0400	**0.230F**	<0.0400	<0.0600	<0.0500
05/30/2012	**0.250**	**0.0660F**	**0.360**	<0.0400	**0.300F**	<0.0400	<0.0600	<0.0500
06/27/2012	**0.100F**	<0.0500	**0.710**	<0.0400	**0.140F**	<0.0400	<0.0600	<0.0500
07/25/2012	<0.0300	<0.0500	**0.780**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/31/2012	<0.0300	<0.0500	**0.340**	<0.0400	**0.110F**	<0.0400	<0.0600	<0.0500
09/26/2012	<0.0300	<0.0500	**1.20**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
10/24/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/28/2012	**0.0680F**	**0.140F**	**0.310J**	<0.0400	**0.110F**	<0.0400	<0.0600	<0.0500
12/18/2012	<0.0300	<0.0500	**0.430**	<0.0400	**0.120F**	<0.0400	<0.0600	<0.0500
OFB-51/52M Juvenile Hall Treatment System (Mid-GAC)								
01/25/2011	<0.0300	<0.0500	<0.0600	<0.0400	**0.0660F**	<0.0400	<0.0600	<0.0500
02/22/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
03/29/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
04/26/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
05/31/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
06/08/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
06/28/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
07/26/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/30/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/29/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
12/28/2011	<0.0300	<0.0500	**0.260**	<0.0400	**0.170F**	<0.0400	<0.0600	<0.0500
01/25/2012	<0.0300	<0.0500	**0.340**	<0.0400	**0.180F**	<0.0400	<0.0600	<0.0500
02/29/2012	<0.0300	<0.0500	**0.340**	<0.0400	**0.180F**	<0.0400	<0.0600	<0.0500
03/28/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
04/24/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
05/30/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
06/27/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
07/25/2012	<0.0300	<0.0500	<0.0600	<0.0400	**0.0410F**	<0.0400	<0.0600	<0.0500
08/31/2012	<0.0300	<0.0500	<0.0600	<0.0400	**0.0980F**	<0.0400	<0.0600	<0.0500
09/26/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
10/24/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/28/2012	<0.0300	**0.0760F**	<0.0600	<0.0400	**0.0850MF**	<0.0400	<0.0600	<0.0500
12/18/2012	<0.0300	<0.0500	**0.0850F**	<0.0400	**0.0890F**	<0.0400	<0.0600	<0.0500
OFB-52 (NA) Off-Base Groundwater Production Well								
02/22/2011	**0.190F**	**0.0980F**	**0.320**	<0.0400	**0.300F**	<0.0400	<0.0600	<0.0500
05/31/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
06/08/2011	**0.120F**	<0.0500	**0.140F**	<0.0400	**0.260F**	<0.0400	<0.0600	<0.0500

TABLE A-1

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SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
08/30/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
09/27/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
10/26/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/29/2011	**0.180F**	**0.120F**	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
01/25/2012	<0.0300	<0.0500	<0.0600	<0.0400	**0.200F**	<0.0400	<0.0600	<0.0500
05/30/2012	**0.210**	**0.0960F**	**0.270**	<0.0400	**0.240F**	<0.0400	<0.0600	<0.0500
09/26/2012	<0.0300	<0.0500	**1.10**	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/28/2012	**0.110F**	**0.170F**	**0.250**	<0.0400	**0.210F**	<0.0400	<0.0600	<0.0500
OFB-53 (NA) Off-Base Groundwater Production Well								
06/13/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/22/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
OFB-54 (NA) Off-Base Groundwater Production Well								
02/11/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
06/08/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/17/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/29/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
02/29/2012	<0.0300	<0.0500	<0.0600	**0.220F**	<0.0200	<0.0400	<0.0600	<0.0500
03/28/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
05/30/2012	<0.0300	<0.0500	<0.0600	**0.380F**	<0.0200	<0.0400	<0.0600	<0.0500
09/12/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/28/2012	<0.0300	**0.0690F**	<0.0600	**0.240F**	<0.0200	<0.0400	<0.0600	<0.0500
OFB-55 (NA) Off-Base Groundwater Production Well								
02/11/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
06/08/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/17/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/29/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
02/29/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
05/30/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
09/12/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/28/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
OFB-56 (NA) Off-Base Groundwater Production Well								
02/11/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
06/08/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
08/17/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/29/2011	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
02/29/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
05/30/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
09/12/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500
11/28/2012	<0.0300	<0.0500	<0.0600	<0.0400	<0.0200	<0.0400	<0.0600	<0.0500

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
OFB-57 (NA) Off-Base Groundwater Production Well								
06/13/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/21/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
OFB-67 (NA) Off-Base Groundwater Production Well								
06/14/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/22/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
OFB-69 (NA) Off-Base Groundwater Production Well								
06/14/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/21/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
OFB-70 (NA) Off-Base Groundwater Production Well								
06/14/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	**0.300F**
OFB-71 (NA) Off-Base Groundwater Production Well								
06/13/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/21/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
OFB-72 (NA) Main Base/SAC Groundwater Production Well								
02/17/2011	**1.50**	**0.200F**	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
06/13/2011	**2.10**	**0.300F**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
08/16/2011	**1.80**	**0.300F**	<0.100	**0.200F**	**0.400F**	<0.100	<0.100	<0.100
11/28/2011	**1.90**	**0.300F**	<0.100	<0.200	0.100F	<0.100	<0.100	<0.300
02/15/2012	**1.60J**	0.100F	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/21/2012	**2.10**	**0.300F**	<0.100	<0.200	**0.200F**	<0.100	<0.100	<0.100
08/28/2012	**1.90J**	**0.300FJ**	<0.100	<0.100	0.100FJ	<0.100	<0.100	<0.300
11/26/2012	**1.70J**	**0.300FJ**	<0.100	<0.100	0.100FJ	<0.100	<0.100	<0.100
OFB-73 (NA) Off-Base Groundwater Production Well								
06/14/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/21/2012	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
OFB-74 (NA) Off-Base Groundwater Production Well								
06/14/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/21/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
OFB-75 (NA) Off-Base Groundwater Production Well								
06/13/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
05/21/2012	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
OFB-76 (NA) Off-Base Groundwater Production Well								
06/14/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/21/2012	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
OFB-77 (NA) Off-Base Groundwater Production Well								
06/13/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
05/22/2012	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CTCL (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	CLME (µg/L)
OFB-78 (NA) Off-Base Groundwater Production Well								
06/14/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/22/2012	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
OFB-79 (NA) Off-Base Groundwater Production Well								
06/14/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
08/18/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
11/29/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
02/15/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/22/2012	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
08/29/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.300
11/29/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
OFB-80 (NA) Main Base/SAC Groundwater Production Well								
02/14/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
06/14/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
08/18/2011	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
11/29/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
02/15/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
05/22/2012	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
08/29/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
11/29/2012	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
OFB-81 (NA) Off-Base Groundwater Production Well								
06/14/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
05/22/2012	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
OFB-82 (NA) Off-Base Groundwater Production Well								
06/14/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
05/21/2012	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
OFB-83 (NA) Off-Base Groundwater Production Well								
06/21/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
OFB-84 (NA) Off-Base Groundwater Production Well								
06/14/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
05/21/2012	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
OFB-85 (NA) Off-Base Groundwater Production Well								
06/13/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
05/21/2012	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100
OFB-86 (NA) Off-Base Groundwater Production Well								
06/14/2011	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.300
05/22/2012	<0.100	<0.100	<0.100	<0.200	<0.100	<0.100	<0.100	<0.100

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
7-BV-13 (NA) Landfill Soil Vapor Extraction/Injection Well										
05/24/2011	NS	**17BF**	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
7-PTE										
01/04/2011	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
02/02/2011	NS	**24BF**	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
03/01/2011	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
04/05/2011	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
05/03/2011	NS	**15BF**	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
06/07/2011	NS	NS	<0.100	<0.200	<0.100	<0.500	NS	NS	NS	NS
07/05/2011	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
08/02/2011	NS	**12BF**	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
09/06/2011	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
10/05/2011	NS	**13BF**	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
11/01/2011	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
12/06/2011	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
01/03/2012	NS	<9.60	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
02/07/2012	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
03/06/2012	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
04/03/2012	NS	**20F**	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
05/01/2012	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
06/05/2012	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
07/02/2012	NS	**14BF**	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
08/07/2012	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
09/04/2012	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
10/03/2012	NS	**34BF**	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
11/07/2012	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
12/05/2012	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
7-PTI										
02/02/2011	NS	**34BF**	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
05/03/2011	NS	**9.90BF**	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
08/02/2011	NS	**15BF**	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
10/05/2011	NS	**20BF**	<0.100	<0.200	<0.100	<0.500	NS	NS	NS	NS
01/03/2012	NS	**21BF**	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
04/03/2012	NS	<12	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
07/02/2012	NS	<7.70	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
10/03/2012	NS	**16BF**	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
7-PZ-37P (WTZPERCH) Landfill Groundwater Piezometer										
05/16/2011	NS	**81J**	<0.100	<0.200	<0.100	<0.500	NS	NS	NS	NS
05/08/2012	NS	**430J**	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
7-PZ-38P (WTZPERCH) Landfill Groundwater Piezometer										
05/24/2011	NS	**34BF**	NS	NS	NS	NS	NS	NS	NS	NS
ACW PTE										
01/04/2011	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
02/02/2011	NS	<16	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
03/01/2011	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
02/07/2012	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
05/01/2012	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
06/05/2012	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
08/07/2012	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
ACW PTI										

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
02/02/2011	NS	**18BF**	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
MAFB-149 (WT/B) Landfill WP07 Groundwater Monitoring Well										
05/17/2011	NS	<9.60	NS	NS	NS	NS	NS	NS	NS	NS
05/08/2012	NS	**17F**	NS	NS	NS	NS	NS	NS	NS	NS
MAFB-214 (WT) Main Base/SAC Groundwater Monitoring Well										
03/06/2012	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
MAFB-231 (B) Main Base/SAC Groundwater Monitoring Well										
03/05/2012	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
MAFB-234 (B) Main Base/SAC Groundwater Monitoring Well										
03/05/2012	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
MAFB-274 (B) Main Base/SAC Groundwater Monitoring Well										
11/08/2012	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
MAFB-284 (B) Landfill WP07 Groundwater Monitoring Well										
05/16/2011	NS	**27F**	NS	NS	NS	NS	NS	NS	NS	NS
05/08/2012	NS	**17F**	NS	NS	NS	NS	NS	NS	NS	NS
MAFB-322 (B) Off-Base Groundwater Monitoring Well										
02/10/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/12/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/18/2011	NS	NS	<0.0300	<0.0300	**0.110F**	<0.110	NS	NS	NS	NS
11/30/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
02/14/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/01/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/30/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/29/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
MAFB-323 (B) Off-Base Groundwater Monitoring Well										

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
02/11/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/11/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/18/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/28/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
02/14/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/04/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/29/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/27/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
MAFB-324 (B) Off-Base Groundwater Monitoring Well										
02/10/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/12/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/18/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/30/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
02/16/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/04/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/30/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/29/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
MAFB-326 (D) Off-Base Groundwater Monitoring Well										
02/10/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/12/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/18/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/30/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
02/14/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/04/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/30/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
11/29/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
MAFB-327 (D) Off-Base Groundwater Monitoring Well										
02/11/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
06/01/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/18/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/28/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
02/14/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/04/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/29/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/27/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
MAFB-328 (D) Off-Base Groundwater Monitoring Well										
02/14/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
06/01/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/18/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/30/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
02/16/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/04/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/30/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/29/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
MAFB-330 (B) Off-Base Groundwater Monitoring Well										
05/11/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/04/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
MAFB-336 (D) Off-Base Groundwater Monitoring Well										
05/12/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
MAFB-337 (Dd) Off-Base Groundwater Monitoring Well										

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
02/10/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/12/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/18/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/30/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
02/14/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/04/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/30/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/29/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
MAFB-338 (Dd) Off-Base Groundwater Monitoring Well										
02/10/2011	NS	NS	<0.0300	<0.0300	**0.110F**	<0.110	NS	NS	NS	NS
06/01/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/18/2011	NS	NS	<0.0300	<0.0300	**0.140F**	<0.110	NS	NS	NS	NS
11/30/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
02/16/2012	NS	NS	**0.0540F**	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/04/2012	NS	NS	<0.0300	<0.0300	**0.130F**	<0.110	NS	NS	NS	NS
08/30/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/29/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
MAFB-349 (LMT) Off-Base Groundwater Monitoring Well										
02/14/2011	NS	NS	<0.0300	**0.0730F**	<0.100	0.400F	NS	NS	NS	NS
06/01/2011	NS	NS	<0.0300	**0.0310F**	<0.100	0.170F	NS	NS	NS	NS
08/18/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/28/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
02/14/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/04/2012	NS	NS	<0.0300	<0.0300	<0.100	0.290F	NS	NS	NS	NS
08/29/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
11/27/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
MAFB-378B (B) Main Base/SAC Groundwater Monitoring Well										
02/25/2011	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
MAFB-378D (D) Main Base/SAC Groundwater Monitoring Well										
02/10/2011	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
MAFB-393 (C) Site 7 Groundwater Monitoring Well										
05/12/2011	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
MAFB-397 (Dd) Main Base/SAC Groundwater Monitoring Well										
02/10/2011	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
MAFB-407 (WT/Bu) Main Base/SAC Groundwater Monitoring Well										
03/05/2012	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
MAFB-413 (WT/B) Landfill Groundwater Monitoring Well										
05/19/2011	NS	<16	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
05/02/2012	NS	**21BF**	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
MAFB-419 (WT/B) Main Base/SAC Groundwater Monitoring Well										
06/17/2011	NS	**72J**	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
11/08/2012	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
MAFB-421 (WT/B) Main Base/SAC Groundwater Monitoring Well										
03/05/2012	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
MAFB-435 (Dd) Main Base/SAC Groundwater Monitoring Well										
02/14/2011	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
MAFB-436 (WT) Main Base/SAC Groundwater Monitoring Well										
05/27/2011	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
05/04/2012	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
MAFB-439 (WT) Main Base/SAC Groundwater Monitoring Well										
06/17/2011	NS	**50F**	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
MAFB-460Bd (D) Main Base/SAC Groundwater Monitoring Well										
02/16/2011	NS	NS	<0.100	<0.100	0.100F	<0.500	NS	NS	NS	NS
MAFB-460Bs (Bs) Main Base/SAC Groundwater Monitoring Well										
02/16/2011	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
MAFB-461Bd (Bd) Main Base/SAC Groundwater Monitoring Well										
02/16/2011	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
MAFB-461Bs (Bs) Main Base/SAC Groundwater Monitoring Well										
02/16/2011	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
MBS 39ABuB (WT/B) Main Base/SAC Groundwater Extraction Well										
03/05/2012	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
MBS 39EW02										
05/04/2012	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
MBS 39MW02										
03/06/2012	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
MBS 39MW03										
05/04/2012	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
MBS 39MW04										
03/05/2012	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
MBS PTE AF (after filter) Treatment System Effluent										
01/04/2011	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
02/02/2011	NS	**18BF**	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
03/01/2011	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
04/05/2011	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
05/03/2011	NS	**16BF**	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
06/07/2011	NS	NS	<0.100	<0.200	<0.100	<0.500	NS	NS	NS	NS
07/05/2011	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
08/02/2011	NS	**30BF**	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
MBS PTI										
02/02/2011	NS	**19BF**	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
05/03/2011	NS	<9.60	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
08/02/2011	NS	**22BF**	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
10/04/2011	NS	**27BF**	<0.100	<0.200	<0.100	<0.500	NS	NS	NS	NS
11/02/2011	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
12/06/2011	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
01/03/2012	NS	**14BF**	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
04/03/2012	NS	<9.60	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
07/02/2012	NS	**9.30BF**	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
10/03/2012	NS	**14BF**	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
OFB-04 (NA) Off-Base Groundwater Production Well										
02/11/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
06/08/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
07/26/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/17/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
09/27/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
10/26/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/29/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
12/28/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
01/25/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
02/29/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/30/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
06/27/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
07/20/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
07/25/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/01/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
10/12/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/28/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
12/18/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
OFB-27 (NA) Off-Base Groundwater Production Well										
08/17/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/29/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
02/29/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/30/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/28/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
OFB-31 (NA) Off-Base Groundwater Production Well										
02/11/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
06/08/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/17/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/29/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
OFB-32 (NA) Off-Base Groundwater Production Well										
02/11/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
06/08/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/17/2011	NS	NS	<0.0300	<0.0300	**0.110F**	<0.110	NS	NS	NS	NS

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
11/29/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
02/29/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
03/28/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/30/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
09/12/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/28/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
OFB-49 (NA) Off-Base Groundwater Production Well										
02/11/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
06/08/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/17/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/29/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
06/27/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
09/12/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/28/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
OFB-51 (NA) Off-Base Groundwater Production Well										
02/22/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/31/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
06/08/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/30/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
09/27/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
10/26/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/29/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
01/25/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/30/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
09/26/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
11/28/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
OFB-51/52I (NA) Off-Base Treatment System Influent										
01/25/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
02/22/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
03/29/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
04/26/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/31/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
06/08/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
06/28/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
07/26/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/30/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/29/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
12/28/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
01/25/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
02/29/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
03/28/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
04/24/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/30/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
06/27/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
07/25/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/31/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
09/26/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
10/24/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/28/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
12/18/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
OFB-51/52M										
01/25/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
02/22/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
03/29/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
04/26/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/31/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
06/08/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
06/28/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
07/26/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/30/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/29/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
12/28/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
01/25/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
02/29/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
03/28/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
04/24/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/30/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
06/27/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
07/25/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/31/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
09/26/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
10/24/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/28/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
12/18/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
OFB-52 (NA) Off-Base Groundwater Production Well										

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
02/22/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/31/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
06/08/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/30/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
09/27/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
10/26/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/29/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
01/25/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/30/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
09/26/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/28/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
OFB-54 (NA) Off-Base Groundwater Production Well										
02/11/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
06/08/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/17/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/29/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
02/29/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
03/28/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/30/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
09/12/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/28/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
OFB-55 (NA) Off-Base Groundwater Production Well										
02/11/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
06/08/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/17/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
11/29/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
02/29/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/30/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
09/12/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/28/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
OFB-56 (NA) Off-Base Groundwater Production Well										
02/11/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
06/08/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
08/17/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/29/2011	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
02/29/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
05/30/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
09/12/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
11/28/2012	NS	NS	<0.0300	<0.0300	<0.100	<0.110	NS	NS	NS	NS
OFB-72 (NA) Main Base/SAC Groundwater Production Well										
02/17/2011	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS
OFB-80 (NA) Main Base/SAC Groundwater Production Well										
02/14/2011	NS	NS	<0.100	<0.100	<0.100	<0.500	NS	NS	NS	NS

TABLE A-3

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
LANDFILL METAL/GENERAL MINERALS ANALYSES
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
7-BV-13 (NA) Landfill Soil Vapor Extraction/Injection Well																					
05/24/2011	<2.40	**5.70F**	**44**	<0.240	<1	NS	<1.50	<0.530	<1.10	NS	<1.40	NS	**2.30F**	<0.0360	<0.830	<3.20	**0.890F**	NS	<0.100	**4.90F**	**NS**
7-EW-1 (B) Site 7 Groundwater Extraction Well																					
06/15/2011	NS	NS	NS	NS	NS	**20000**	NS	NS	<1.60	<6.20	NS	**11000**	<0.290	NS	NS	NS	NS	**12000**	NS	NS	**NS**
7-EW-2 (B) Site 7 Groundwater Extraction Well																					
06/15/2011	NS	NS	NS	NS	NS	**31000**	NS	NS	<1.60	**14F**	NS	**15000**	<0.290	NS	NS	NS	NS	**15000**	NS	NS	**NS**
7-PTE																					
02/02/2011	NS	NS	NS	NS	NS	**31000**	NS	NS	<1.40	<25	NS	**15000**	<1.60	NS	NS	NS	NS	**16000**	NS	NS	**NS**
05/03/2011	NS	NS	NS	NS	NS	**29000**	NS	NS	<1.10	<7.20	NS	**14000**	<0.590	NS	NS	NS	NS	**14000**	NS	NS	**NS**
08/02/2011	NS	NS	NS	NS	NS	**33000M**	NS	NS	**2.30BF**	<7.20	NS	**17000**	<0.590	NS	NS	NS	NS	**17000**	NS	NS	**NS**
10/05/2011	NS	NS	NS	NS	NS	**30000**	NS	NS	<1.60	<6.20	NS	**15000**	<0.290	NS	NS	NS	NS	**15000**	NS	NS	**NS**
01/03/2012	NS	NS	NS	NS	NS	**30000**	NS	NS	<1.10	<7.20	NS	**17000**	<0.590	NS	NS	NS	NS	**16000**	NS	NS	<4.40
04/03/2012	NS	NS	NS	NS	NS	**30000M**	NS	NS	<1.60	<17	NS	**15000**	**0.180BF**	NS	NS	NS	NS	**15000**	NS	NS	**NS**
07/02/2012	NS	NS	NS	NS	NS	**31000**	NS	NS	<1.30	<10	NS	**16000**	**0.560BF**	NS	NS	NS	NS	**14000**	NS	NS	**NS**
10/03/2012	NS	NS	NS	NS	NS	**27000**	NS	NS	<1.60	<17	NS	**14000**	**0.390BF**	NS	NS	NS	NS	**14000**	NS	NS	**NS**
7-PTI																					
02/02/2011	NS	NS	NS	NS	NS	**31000**	NS	NS	<1.40	<25	NS	**15000**	<1.60	NS	NS	NS	NS	**16000**	NS	NS	<6.10
05/03/2011	NS	NS	NS	NS	NS	**29000**	NS	NS	<1.10	<7.20	NS	**14000**	<0.590	NS	NS	NS	NS	**14000**	NS	NS	**NS**
08/02/2011	NS	NS	NS	NS	NS	**31000**	NS	NS	**2.90BF**	<7.20	NS	**16000**	<0.590	NS	NS	NS	NS	**15000**	NS	NS	**NS**
10/05/2011	NS	NS	NS	NS	NS	**32000**	NS	NS	<1.60	<6.20	NS	**16000**	<0.290	NS	NS	NS	NS	**17000**	NS	NS	**NS**
01/03/2012	NS	NS	NS	NS	NS	**30000**	NS	NS	<1.10	<7.20	NS	**15000**	<0.590	NS	NS	NS	NS	**15000**	NS	NS	<4.40
04/03/2012	NS	NS	NS	NS	NS	**28000**	NS	NS	<1.60	<17	NS	**14000**	<0.170	NS	NS	NS	NS	**15000**	NS	NS	**NS**
07/02/2012	NS	NS	NS	NS	NS	**30000**	NS	NS	<1.30	<10	NS	**15000**	<0.410	NS	NS	NS	NS	**14000**	NS	NS	**NS**
10/03/2012	NS	NS	NS	NS	NS	**28000**	NS	NS	<1.60	<17	NS	**14000**	**2.10BF**	NS	NS	NS	NS	**15000**	NS	NS	**NS**
7-PZ-37P (WTZPERCH) Landfill Groundwater Piezometer																					

TABLE A-3

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
LANDFILL METAL/GENERAL MINERALS ANALYSES
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
05/16/2011	<1.80	<2.40	**79**	<0.200	<1.20	NS	**1.30F**	**0.570F**	<1.60	NS	<1.60	NS	**1300**	**0.0440BF**	**6**	<2.50	<1.60	NS	**0.490F**	**4**	<3.10
05/08/2012	0.310F	**0.860BF**	**87**	**0.210F**	**0.420F**	NS	**0.660F**	**0.260F**	<0.760	NS	<0.290	NS	**960J**	**0.0370BF**	**6.70**	**0.420BF**	<0.140	NS	<0.160	**5.60**	<6.50
7-PZ-38P (WTZPERCH) Landfill Groundwater Piezometer																					
05/24/2011	<2.40	**2.80F**	**56**	<0.240	<1	NS	<1.50	**1.40F**	**1.40F**	NS	<1.40	NS	**170**	<0.0360	<0.830	<3.20	**1.10F**	NS	<0.100	<1.20	**NS**
ACW PTE																					
02/02/2011	NS	NS	NS	NS	NS	**8800**	NS	NS	<1.40	<25	NS	**4300**	<1.60	NS	NS	NS	NS	**9100**	NS	NS	<6.10
05/03/2011	NS	NS	NS	NS	NS	**9400**	NS	NS	<1.10	<7.20	NS	**4700**	<0.590	NS	NS	NS	NS	**8800**	NS	NS	<4.40
08/02/2011	NS	NS	NS	NS	NS	**9500**	NS	NS	**1.40BF**	<7.20	NS	**4900**	<0.590	NS	NS	NS	NS	**9100**	NS	NS	<4.40
10/05/2011	NS	NS	NS	NS	NS	**9000**	NS	NS	<1.60	<6.20	NS	**4600**	<0.290	NS	NS	NS	NS	**9100**	NS	NS	**NS**
01/03/2012	NS	NS	NS	NS	NS	**9300**	NS	NS	<1.10	<7.20	NS	**4900**	<0.590	NS	NS	NS	NS	**9000**	NS	NS	<4.40
04/03/2012	NS	NS	NS	NS	NS	**8900M**	NS	NS	<1.60	<17	NS	**4600**	<0.170	NS	NS	NS	NS	**9000**	NS	NS	<2.30
07/02/2012	NS	NS	NS	NS	NS	**9800J**	NS	NS	<1.30	<10	NS	**5100J**	<0.410	NS	NS	NS	NS	**9800**	NS	NS	**NS**
10/03/2012	NS	NS	NS	NS	NS	**8500**	NS	NS	<1.60	<17	NS	**4400**	**0.920BF**	NS	NS	NS	NS	**8900**	NS	NS	**NS**
ACW PTI																					
02/02/2011	NS	NS	NS	NS	NS	**8700**	NS	NS	<1.40	<25	NS	**4300**	<1.60	NS	NS	NS	NS	**9200**	NS	NS	<6.10
05/03/2011	NS	NS	NS	NS	NS	**9400**	NS	NS	<1.10	<7.20	NS	**4800**	<0.590	NS	NS	NS	NS	**8900**	NS	NS	**NS**
08/02/2011	NS	NS	NS	NS	NS	**9600**	NS	NS	**2.10BF**	<7.20	NS	**4900**	<0.590	NS	NS	NS	NS	**9100**	NS	NS	**NS**
10/05/2011	NS	NS	NS	NS	NS	**8900**	NS	NS	<1.60	<6.20	NS	**4600**	<0.290	NS	NS	NS	NS	**9000**	NS	NS	**NS**
01/03/2012	NS	NS	NS	NS	NS	**9500**	NS	NS	<1.10	<7.20	NS	**5100**	<0.590	NS	NS	NS	NS	**9000**	NS	NS	<4.40
04/03/2012	NS	NS	NS	NS	NS	**8800**	NS	NS	<1.60	<17	NS	**4500**	**0.200BF**	NS	NS	NS	NS	**8900**	NS	NS	**NS**
07/02/2012	NS	NS	NS	NS	NS	**9200J**	NS	NS	<1.60	<17	NS	**4800J**	<0.170	NS	NS	NS	NS	**9300**	NS	NS	**NS**
10/03/2012	NS	NS	NS	NS	NS	**8500**	NS	NS	<1.60	<17	NS	**4400**	**0.680BF**	NS	NS	NS	NS	**8800**	NS	NS	**NS**
MAFB-111 (WT/B) Landfill LF03/NE Plume Groundwater Monitoring Well																					
05/09/2012	NS	NS	NS	NS	NS	NS	<0.510	NS	NS	NS	NS	NS	NS	NS	<0.760	NS	NS	NS	NS	NS	NS
11/06/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2.40FJ**	NS	NS	NS	NS	NS	NS

TABLE A-3

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
LANDFILL METAL/GENERAL MINERALS ANALYSES
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
MAFB-112 (WT/C) Landfill LF03/NE Plume Groundwater Monitoring Well																					
05/02/2012	NS	NS	NS	NS	NS	NS	**18**	NS	NS	NS	NS	NS	NS	NS	**280**	NS	NS	NS	NS	NS	NS
MAFB-129 (WT/C) Landfill NE Plume Groundwater Monitoring Well																					
06/14/2011	NS	NS	NS	NS	NS	NS	**2.40F**	NS	NS	NS	NS	NS	NS	NS	<0.830	NS	NS	NS	NS	NS	NS
05/08/2012	NS	NS	NS	NS	NS	NS	**1.50F**	NS	NS	NS	NS	NS	NS	NS	**1.80F**	NS	NS	NS	NS	NS	NS
MAFB-132 (WT/B) Landfill LF04/NE Plume Groundwater Monitoring Well																					
05/25/2011	<2.40	**4.10F**	**53**	<0.240	<1	NS	**7.30**	**29**	<1.10	NS	<1.40	NS	**930**	<0.0360	**350**	<3.20	<0.620	NS	**0.480JF**	<1.20	<4.40
12/01/2011	<2.40	<2	**58J**	<0.240	<1	NS	**7.30**	NS	**3BF**	NS	<1.40	NS	**110J**	<0.0200	**260**	<3.20	<0.620	NS	<0.0740	<1.20	<4.40
05/09/2012	0.270FJ	**0.690BF**	**49**	<0.200	<0.0750	NS	**5.90**	<0.230	<0.760	NS	<0.290	NS	**4.80**	**0.0470BF**	**77**	**0.380BF**	<0.140	NS	<0.160	**4.70**	<6.50
11/07/2012	<1.10	<1.30	**54**	<0.190	<0.480	NS	**31**	**10**	<1.60	NS	<1.60	NS	**250**	<0.0200	**240**	<2.50	<1.30	NS	<0.160	**2.30F**	<2.30
MAFB-133 (WT/B) Landfill LF03/NE Plume Groundwater Monitoring Well																					
05/26/2011	<2.40	<2	**23**	<0.240	<1	NS	<1.50	<0.530	**1.60F**	NS	<1.40	NS	<0.590	**0.0640BF**	<0.830	3.20F	<0.620	NS	**0.640F**	**4.40F**	**NS**
04/30/2012	<2.90	<1.50	**21**	<0.220	<0.380	NS	**0.850F**	<0.360	<1.30	NS	<1.10	NS	<0.410	**0.0430BF**	<0.760	<3.30	<1.10	NS	**0.310F**	**5.30**	<2.30
MAFB-136 (WT/B) Landfill LF04/NE Plume Groundwater Monitoring Well																					
05/25/2011	<2.40	<2	**44**	<0.240	<1	NS	<1.50	**5.70**	<1.10	NS	<1.40	NS	**120**	<0.0360	**170**	<3.20	<0.620	NS	<0.100	<1.20	<4.40
05/09/2012	0.280F	**1.20**	**30**	<0.200	<0.0750	NS	**5**	<0.230	<0.760	NS	<0.290	NS	**0.690F**	**0.0480BF**	**32**	**0.720BF**	<0.140	NS	<0.160	**5.40**	<6.50
11/07/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**45**	NS	NS	NS	NS	NS	NS
MAFB-149 (WT/B) Landfill WP07 Groundwater Monitoring Well																					
05/17/2011	<1.80	<2.40	**26**	<0.200	<1.20	NS	**8.60**	<0.520	<1.60	NS	<1.60	NS	**3F**	**0.0470BF**	**27**	**4.90BF**	<1.60	NS	**0.130F**	**12**	<3.10
05/08/2012	<0.140	**1.80**	**26**	<0.200	<0.0750	NS	**5**	<0.230	<0.760	NS	<0.290	NS	<0.170	**0.0430BF**	**10**	<0.260	<0.140	NS	<0.160	**14**	<6.50
MAFB-284 (B) Landfill WP07 Groundwater Monitoring Well																					
05/16/2011	<1.80	<2.40	**37**	<0.200	<1.20	NS	**4.40F**	<0.520	<1.60	NS	<1.60	NS	**1.20**	**0.0440BF**	**1.70BF**	<2.50	<1.60	NS	**0.540F**	**11**	<3.10
05/08/2012	0.150F	**1.70**	**46**	<0.200	<0.0750	NS	**6.20**	<0.230	<0.760	NS	<0.290	NS	<0.170	**0.0490BF**	<0.180	**0.410BF**	<0.140	NS	<0.160	**12**	<6.50
MAFB-288 (B) Landfill NE Plume Groundwater Monitoring Well																					
06/14/2011	<2.40	<2.40	**54**	<0.240	<1	NS	**2.20JF**	**0.880BF**	**7.20B**	NS	<1.40	NS	**13**	**0.170BF**	**2.20BF**	<3.20	**0.870F**	NS	**0.580BF**	**5.90**	**NS**

TABLE A-3

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
LANDFILL METAL/GENERAL MINERALS ANALYSES
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
05/08/2012	NS	NS	NS	NS	NS	NS	<0.510	NS	NS	NS	NS	NS	NS	NS	<0.760	NS	NS	NS	NS	NS	NS
11/09/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1.20	NS	NS	NS	NS	NS	NS
MAFB-398 (WT/B) Landfill LF03/NE Plume Groundwater Monitoring Well																					
05/26/2011	<1.80	<2.40	**21**	<0.200	<1.20	NS	<0.490	<0.520	<1.60	NS	<1.60	NS	**1.50F**	**0.0950BF**	<0.640	<2.50	<1.60	NS	**0.290BF**	**6.50**	<3.10
05/08/2012	0.150F	**0.890BF**	**40**	<0.200	<0.0750	NS	**0.820FJ**	<0.230	<0.760	NS	<0.290	NS	**0.730BF**	**0.0470BF**	<0.180	0.260BF	<0.140	NS	<0.160	**7.20**	<6.50
MAFB-398C (C) Landfill LF03/NE Plume Groundwater Monitoring Well																					
05/26/2011	<1.80	<2.40	**30**	<0.200	<1.20	NS	**1.10F**	**0.750F**	<1.60	NS	<1.60	NS	**94**	**0.170BF**	**4.60F**	<2.50	<1.60	NS	**0.250BF**	**2.20F**	**NS**
04/30/2012	<2.90	<1.50	**45**	<0.220	<0.380	NS	**0.520FJ**	<0.360	<1.30	NS	<1.10	NS	<0.410	**0.0590BF**	**0.810F**	<3.30	<1.10	NS	<0.0770	**2.30FJ**	**NS**
MAFB-399 (C) Landfill LF03/NE Plume Groundwater Monitoring Well																					
06/13/2011	<2.40	<2.40	**36**	<0.240	<1	NS	**1.70F**	**1.30BF**	<1.60	NS	<1.40	NS	**51**	<0.0360	**1.70BF**	<3.20	**0.990F**	NS	<0.150	**6.90**	**NS**
05/01/2012	<2.90	<1.50	**30**	<0.220	<0.380	NS	**0.640F**	<0.360	<1.30	NS	<1.10	NS	<0.410	**0.0620BF**	<0.760	<3.30	<1.10	NS	<0.0770	**6.90**	NS
MAFB-400 (C) Landfill LF04/NE Plume Groundwater Monitoring Well																					
05/18/2011	<1.80	<2.40	**110**	<0.200	<1.20	NS	<0.490	<0.520	<1.60	NS	<1.60	NS	**1F**	**0.0680BF**	**1.70BF**	<2.50	<1.60	NS	<0.0560	**3.90**	<3.10
05/04/2012	<1.10	<1.30	**120**	<0.190	<0.480	NS	**0.710F**	<0.780	<1.60	NS	<1.60	NS	<0.170	<0.0200	**1.80F**	<2.50	<1.30	NS	<0.160	**4.10F**	<2.30
11/09/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1.20	NS	NS	NS	NS	NS	NS
MAFB-413 (WT/B) Landfill Groundwater Monitoring Well																					
05/19/2011	<2.40	**2.40F**	**50**	<0.240	<1	NS	<1.50	<0.530	<1.10	NS	<1.40	NS	<0.590	**0.0560F**	<0.830	<3.20	<0.620	NS	**0.120F**	**7**	<4.40
05/02/2012	<2.90	<1.50	**49**	<0.220	<0.380	NS	**2.20F**	<0.360	<1.30	NS	<1.10	NS	<0.410	**0.0570BF**	<0.760	<3.30	<1.10	NS	<0.0770	**8.20**	<2.30
MAFB-439 (WT) Main Base/SAC Groundwater Monitoring Well																					
06/16/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1.40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MBS PTE AF (after filter) Treatment System Effluent																					
02/02/2011	<2.90	**3.50F**	**54**	<0.410	<1.30	NS	**1.60F**	<1.10	<1.40	NS	<1	NS	<1.60	<0.0330	<1.30	<3	<1	NS	<0.0560	**9.40**	<6.10
05/03/2011	<2.40	**6.10**	**59**	<0.240	<1	NS	<1.50	<0.530	<1.10	NS	<1.40	NS	<0.590	<0.0360	<0.830	<3.20	<0.620	NS	**0.560F**	**7.90**	<4.40
08/02/2011	6.40BF	<2.40	**56**	<0.200	<1.20	NS	**3.30F**	<0.520	<1.60	NS	**3.90F**	NS	**1.10F**	**0.0530BF**	**0.720F**	<3.20	<1.60	NS	**0.220F**	**8.70**	**NS**
MBS PTI																					

TABLE A-3

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
LANDFILL METAL/GENERAL MINERALS ANALYSES
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
02/02/2011	<2.90	<1.60	**51**	<0.410	<1.30	NS	**1.60F**	<1.10	<1.40	NS	<1	NS	<1.60	<0.0330	<1.30	<3	<1	NS	<0.0560	**9.10**	**NS**
02/02/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
02/02/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
02/02/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2.20F**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05/03/2011	<2.40	**5.80F**	**52**	<0.240	<1	NS	<1.50	<0.530	<1.10	NS	<1.40	NS	<0.590	**0.130BF**	<0.830	**6.80F**	<0.620	NS	<0.100	**6.80**	**NS**
08/02/2011	4.30BF	<2.40	**58**	<0.200	<1.20	NS	**3F**	<0.520	<1.60	NS	**2.50JF**	NS	**0.570F**	<0.0360	**1.10F**	<3.20	<1.60	NS	<0.150	**9.90**	**NS**
10/04/2011	<1.80	**3.90BF**	**58**	<0.200	<1.20	NS	**3F**	<0.520	<1.60	NS	<1.40	NS	<0.290	<0.0360	<0.830	<3.20	<1.60	NS	**0.900F**	**9.50**	**NS**
01/03/2012	<2.40	<2	**54J**	<0.240	<1	NS	**2F**	<0.530	<1.10	NS	<1.40	NS	<0.590	<0.0200	<0.830	**3.80F**	<0.620	NS	<0.100	**8.20**	<4.40
04/03/2012	<1.10	<1.30	**55**	<0.190	<0.480	NS	**3.50F**	<0.780	<1.60	NS	<1.60	NS	<0.170	**0.0360BF**	<1.20	<2.50	<1.30	NS	<0.160	**10**	<2.30
07/02/2012	<1.10	<1.30	**56**	<0.190	<0.480	NS	**3.80F**	<0.780	<1.60	NS	<1.60	NS	**0.240F**	<0.0200	<1.20	<2.50	<1.30	NS	<0.160	**9.70**	**NS**
10/03/2012	<1.10	<1.30	**98**	<0.190	<0.480	NS	**3.50F**	<0.780	<1.60	NS	<1.60	NS	**5.50**	**0.110F**	<1.20	<2.50	<1.30	NS	<0.160	**8.60**	**NS**

TABLE A-4

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
GENERAL MINERALS ANALYSES
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	Alkalinity (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Hardness (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Sulfide (mg/L)	TDS (mg/L)	Perchlorate (mg/L)
7-EW-1 (B) Site 7 Groundwater Extraction Well											
06/15/2011	110	NS	NS	**9.80**	NS	NS	**2.80**	**12**	NS	NS	NS
7-EW-2 (B) Site 7 Groundwater Extraction Well											
06/15/2011	150	NS	NS	**9.50**	NS	NS	**2**	**28**	NS	**250**	NS
7-PTE											
02/02/2011	140	**140**	<6.70	**9.70**	NS	NS	**2.40**	**21**	NS	**260**	NS
05/03/2011	140	**140**	<4	**9.80**	NS	NS	**2.50**	**21**	NS	**230**	NS
08/02/2011	140	**140**	<6.70	**9**	NS	NS	**2.20**	**20**	NS	**250**	NS
10/05/2011	140	**140**	<6.70	**9.10**	NS	NS	**2.30**	**21**	NS	**220**	NS
01/03/2012	130	**130**	<6.70	**9.50**	NS	NS	**2.40**	**23**	NS	**250**	NS
04/03/2012	150	NS	NS	**9.10**	NS	NS	**2.40**	**21**	NS	**220**	NS
07/02/2012	130	**130**	<4	**9.50**	NS	NS	**2.30**	**21**	NS	**230J**	NS
10/03/2012	87	**87**	<1	**9.20**	NS	NS	**2.40**	**21**	NS	**260**	NS
7-PTI											
02/02/2011	140	**140**	<6.70	**9.70**	NS	NS	**2.40**	**21**	NS	**260**	NS
05/03/2011	130	**130**	<4	**9.80**	NS	NS	**2.50**	**21**	NS	**210**	NS
08/02/2011	140	**140**	<4	**9**	NS	NS	**2.20**	**20**	NS	**260**	NS
10/05/2011	150	**150**	<6.70	**9**	NS	NS	**2.30**	**21**	NS	**230**	NS
01/03/2012	140	**140**	<6.70	**9.50**	NS	NS	**2.40**	**24**	NS	**260**	NS
04/03/2012	140	NS	NS	**9**	NS	NS	**2.40**	**21**	NS	**230**	NS
07/02/2012	140	**140**	<4	**9.60**	NS	NS	**2.30**	**21**	NS	**240J**	NS
10/03/2012	140	**140**	<1	**9.30**	NS	NS	**2.40**	**21**	NS	**270**	NS
ACW PTE											
02/02/2011	52	**52**	<1	**3.50**	NS	NS	**2.80**	**1.70**	NS	**120**	NS
05/03/2011	47	**47**	<2	**3.70**	NS	NS	**2.80**	**1.90**	NS	**130**	NS

TABLE A-4

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
GENERAL MINERALS ANALYSES
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	Alkalinity (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Hardness (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Sulfide (mg/L)	TDS (mg/L)	Perchlorate (mg/L)
08/02/2011	48	**48**	<2	**3.10**	NS	NS	**2.50**	**1.70**	NS	**120**	NS
10/05/2011	51	**51**	<1	**3.30**	NS	NS	**2.70**	**1.80**	NS	**94**	NS
01/03/2012	49	**49**	<1	**3.50**	NS	NS	**2.80**	**2.10**	NS	**120**	NS
04/03/2012	46	NS	NS	**3.10**	NS	NS	**2.70**	**1.70**	NS	**100**	NS
07/02/2012	48	**48**	<1	**3.20**	NS	NS	**2.60**	**1.80**	NS	**110J**	NS
10/03/2012	51	**51**	<1	**3.20**	NS	NS	**2.70**	**2**	NS	**140**	NS
ACW PTI											
02/02/2011	51	**51**	<1	**3.40**	NS	NS	**2.80**	**1.80**	NS	**150**	NS
05/03/2011	47	**47**	<2	**3.50**	NS	NS	**2.80**	**1.80**	NS	**120**	NS
08/02/2011	48	**48**	<2	**3.20**	NS	NS	**2.50**	**1.70**	NS	**110**	NS
10/05/2011	49	**49**	<1	**3.20**	NS	NS	**2.70**	**1.90**	NS	**98**	NS
01/03/2012	49	**49**	<1	**3.50**	NS	NS	**2.80**	**2.10**	NS	**130**	NS
04/03/2012	47	NS	NS	**3.10**	NS	NS	**2.70**	**1.80**	NS	**110**	NS
07/02/2012	46	**46**	<1	**3.20**	NS	NS	**2.50**	**1.80**	NS	**96J**	NS
10/03/2012	50	**50**	<1	**3.10**	NS	NS	**2.70**	**2**	NS	**130**	NS
MAFB-132 (WT/B) Landfill LF04/NE Plume Groundwater Monitoring											
05/25/2011	250	**250**	<6.70	**34**	**0.100**	NS	NS	**4.80**	**0.230**	**310**	NS
12/01/2011	240	**240**	<10	**35**	**0.140**	NS	NS	**4.30**	**0.100**	<10	NS
05/09/2012	230	**230**	<10	**34**	**0.170**	NS	NS	**5.30**	<0.00600	**330**	NS
11/07/2012	210	**210**	<10	**30**	**0.110**	NS	NS	**4.40**	<0.00600	**300**	NS
MAFB-133 (WT/B) Landfill LF03/NE Plume Groundwater Monitoring											
05/26/2011	82	**82**	<4	**4.80**	**0.130**	NS	NS	**12**	<0.00600	**180J**	NS
04/30/2012	95	NS	NS	**4.50**	**0.200**	NS	NS	**11**	<0.00600	**160**	NS
MAFB-136 (WT/B) Landfill LF04/NE Plume Groundwater Monitoring											
05/25/2011	95	**95**	<4	**33**	**0.130**	NS	NS	**13**	**0.220M**	**220**	NS

TABLE A-4

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
GENERAL MINERALS ANALYSES
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location Type Date Sampled	Alkalinity (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Hardness (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Sulfide (mg/L)	TDS (mg/L)	Perchlorate (mg/L)
05/09/2012	65	**65**	<1	**32**	**0.200**	NS	NS	**10**	<0.00600	**210**	NS
MAFB-288 (B) Landfill NE Plume Groundwater Monitoring Well											
06/14/2011	120	NS	NS	**4.70**	**0.140**	NS	NS	**4.10**	<0.00600	**220**	NS
MAFB-398 (WT/B) Landfill LF03/NE Plume Groundwater Monitoring											
05/26/2011	120	**120**	<4	**9.80**	**0.0450F**	NS	NS	**14**	<0.00600	**200J**	NS
05/08/2012	240	**240**	<10	**7.30**	**0.110**	NS	NS	**12**	<0.00600	**310**	NS
MAFB-398C (C) Landfill LF03/NE Plume Groundwater Monitoring W											
05/26/2011	64	**64**	<2	**6.20**	**0.130**	NS	NS	**2.50**	<0.00600	**20J**	NS
04/30/2012	100	NS	NS	**7.80**	**0.160**	NS	NS	**3.90**	**0.140**	**170**	NS
MAFB-399 (C) Landfill LF03/NE Plume Groundwater Monitoring Wel											
06/13/2011	73	NS	NS	**5.40**	**0.110**	NS	NS	**3.50**	<0.00600	**150**	NS
05/01/2012	160	NS	NS	**5.60**	**0.170**	NS	NS	**4.90**	<0.00600	**140**	NS
MAFB-400 (C) Landfill LF04/NE Plume Groundwater Monitoring Wel											
05/18/2011	180	**180**	<6.70	**55**	**0.0580F**	NS	NS	**12**	<0.00600	**350**	NS
05/04/2012	190	**190**	<6.70	**55**	**0.110**	NS	NS	**12**	<0.00600	**350J**	NS
MBS PTE AF (after filter) Treatment System Effluent											
02/02/2011	100	**100**	<1	**7.70**	NS	NS	**3.30**	**9.90**	NS	**200**	NS
05/03/2011	100	**100**	<4	**8**	NS	NS	**3.40**	**11**	NS	**180**	NS
08/02/2011	100	**100**	<4	**7.30**	NS	NS	**3.10**	**9.80**	NS	**170**	NS
MBS PTI											
02/02/2011	100	**100**	<1	**7.70**	NS	NS	**3.30**	**9.80**	NS	**200**	NS
05/03/2011	100	**100**	<4	**8**	NS	NS	**3.40**	**11**	NS	**180**	NS
08/02/2011	100	**100**	<4	**7.30**	NS	NS	**3.10**	**9.90**	NS	**180**	NS
10/04/2011	100	**100**	<4	**7.30**	NS	NS	**3.30**	**10**	NS	**170J**	NS
01/03/2012	95	**95**	<4	**7.70**	NS	NS	**3.40**	**11**	NS	**190J**	NS

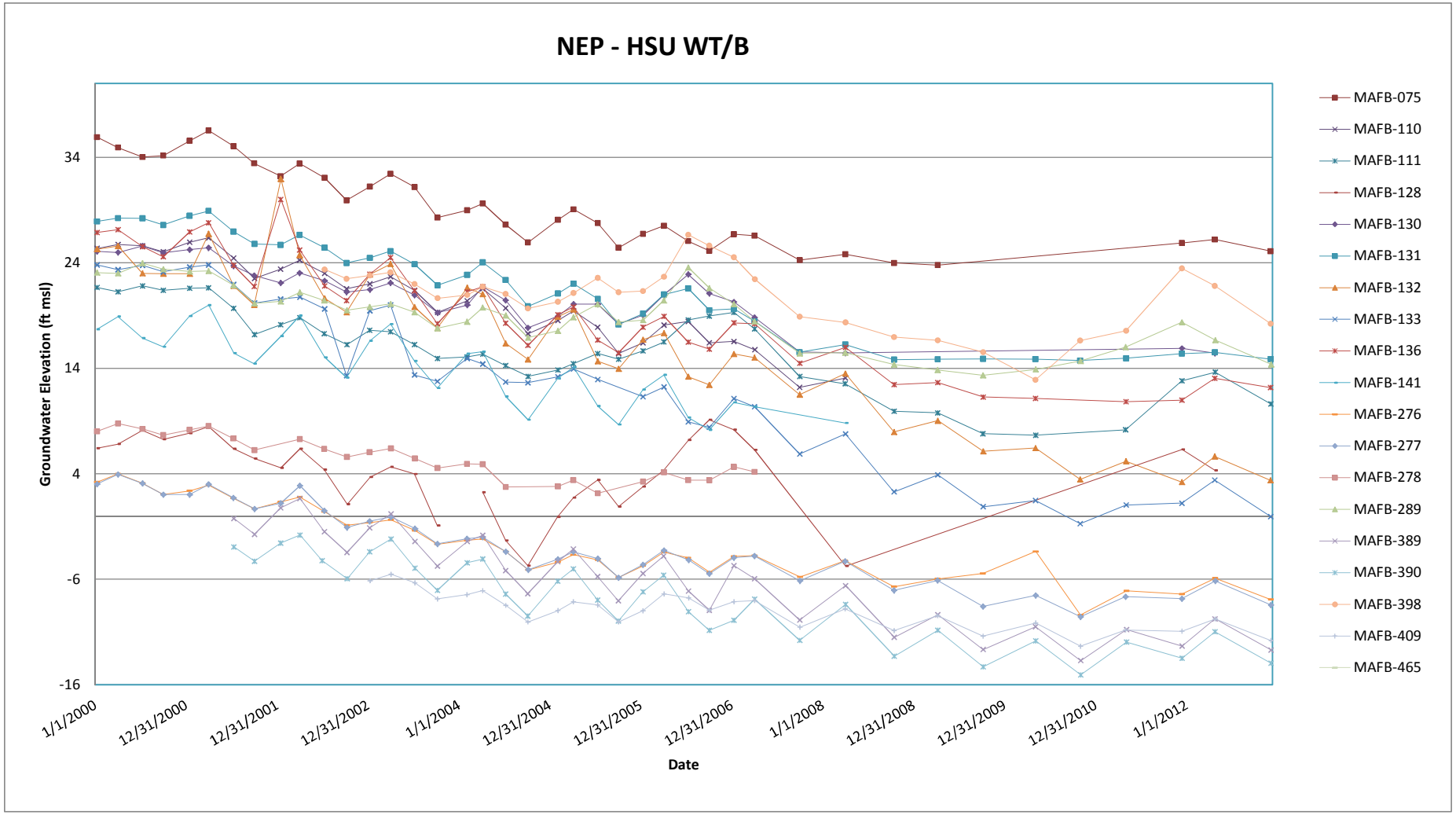
TABLE A-4

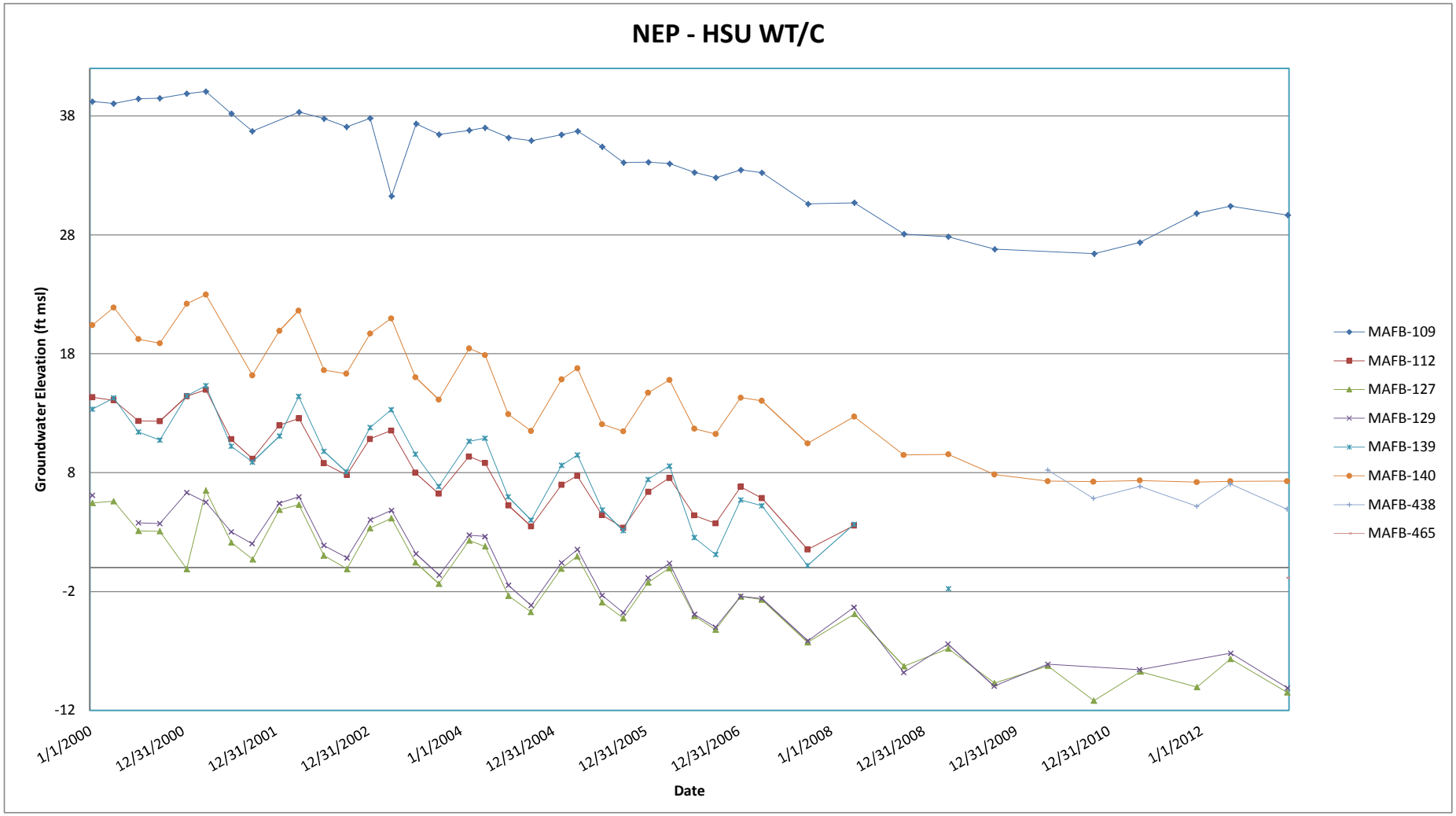
SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
GENERAL MINERALS ANALYSES
FORMER MATHER AIR FORCE BASE
SACRAMENTO, COUNTY, CALIFORNIA

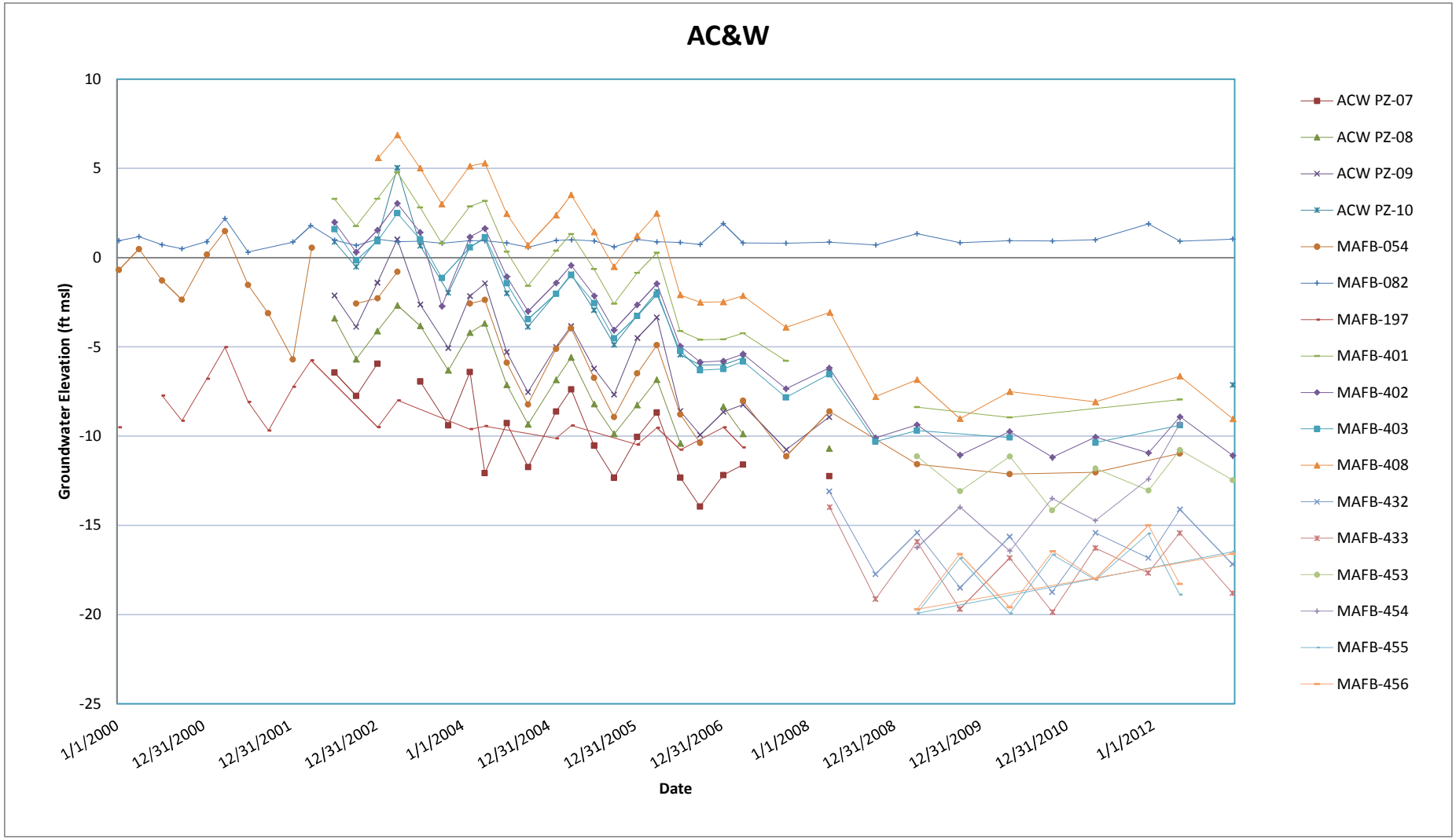
Well Number/Hsg Unit/Location Type Date Sampled	Alkalinity (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Hardness (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Sulfide (mg/L)	TDS (mg/L)	Perchlorate (mg/L)
04/03/2012	95	NS	NS	**7.10**	NS	NS	**3.20**	**9.20**	NS	**170J**	NS
07/02/2012	100	**100**	<4	**7.50**	NS	NS	**3.20**	**10**	NS	**160J**	NS
10/03/2012	110	**110**	<4	**7.50**	NS	NS	**3.30**	**10**	NS	**200**	NS

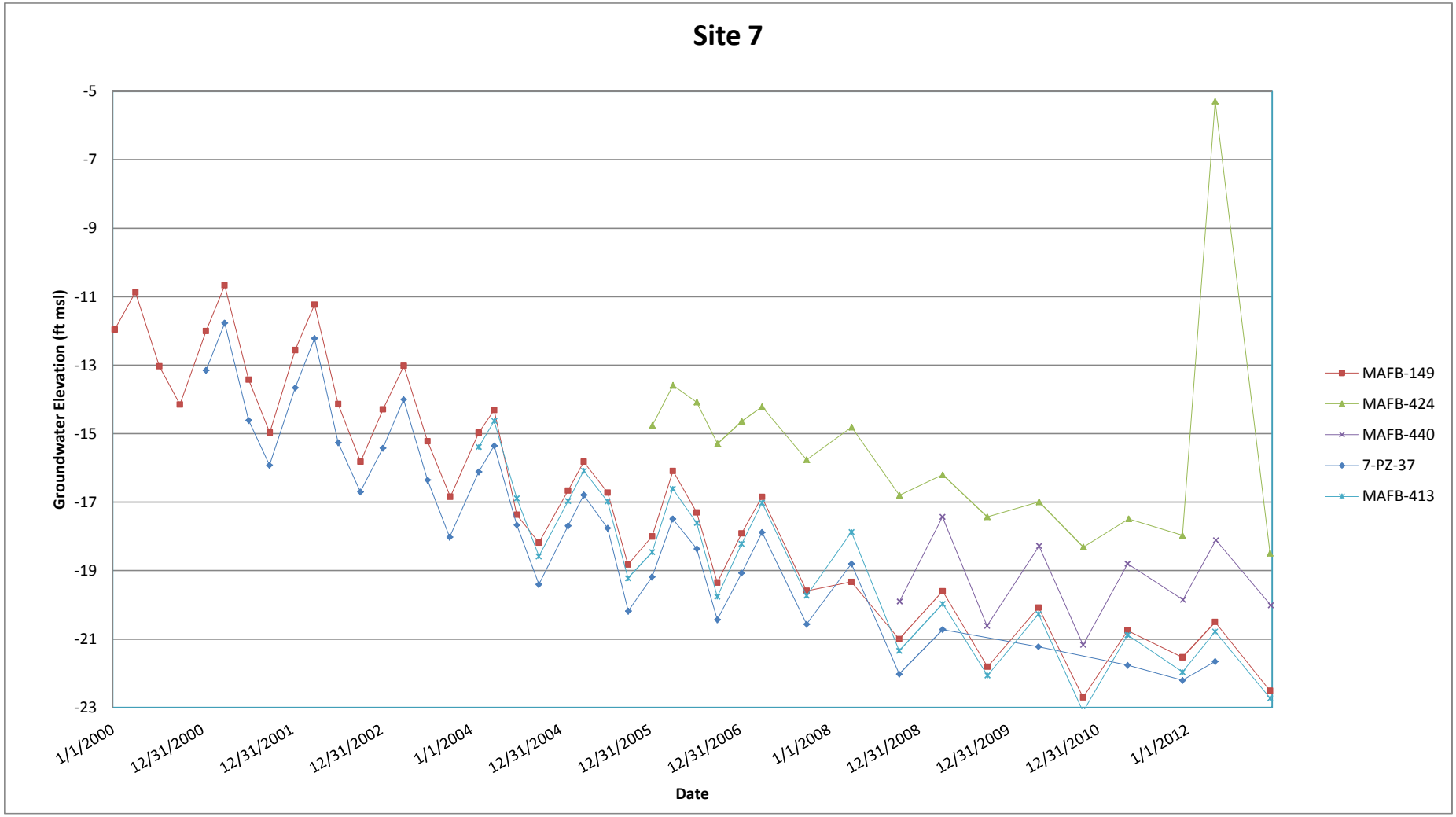
APPENDIX B

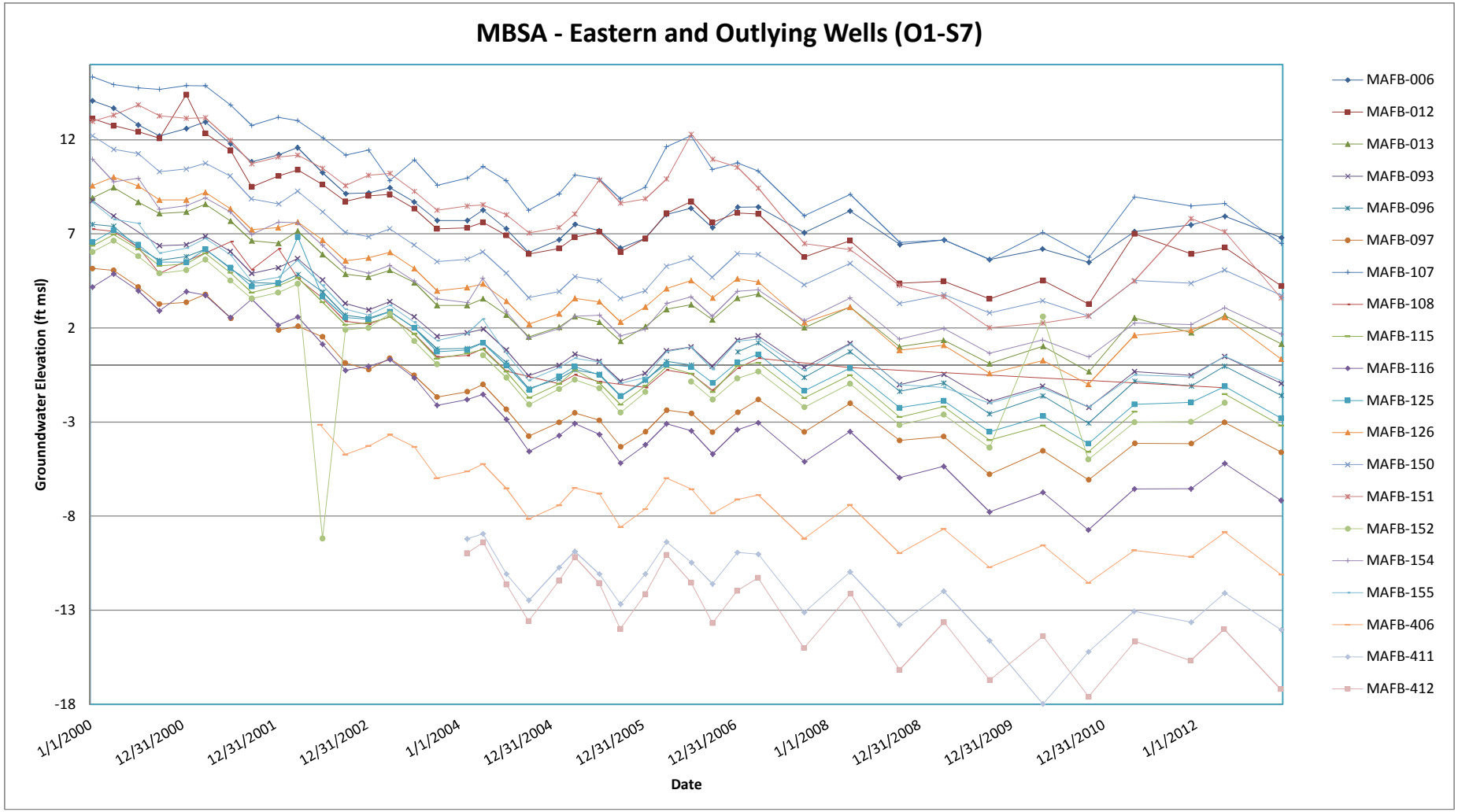
Water Table Hydrographs

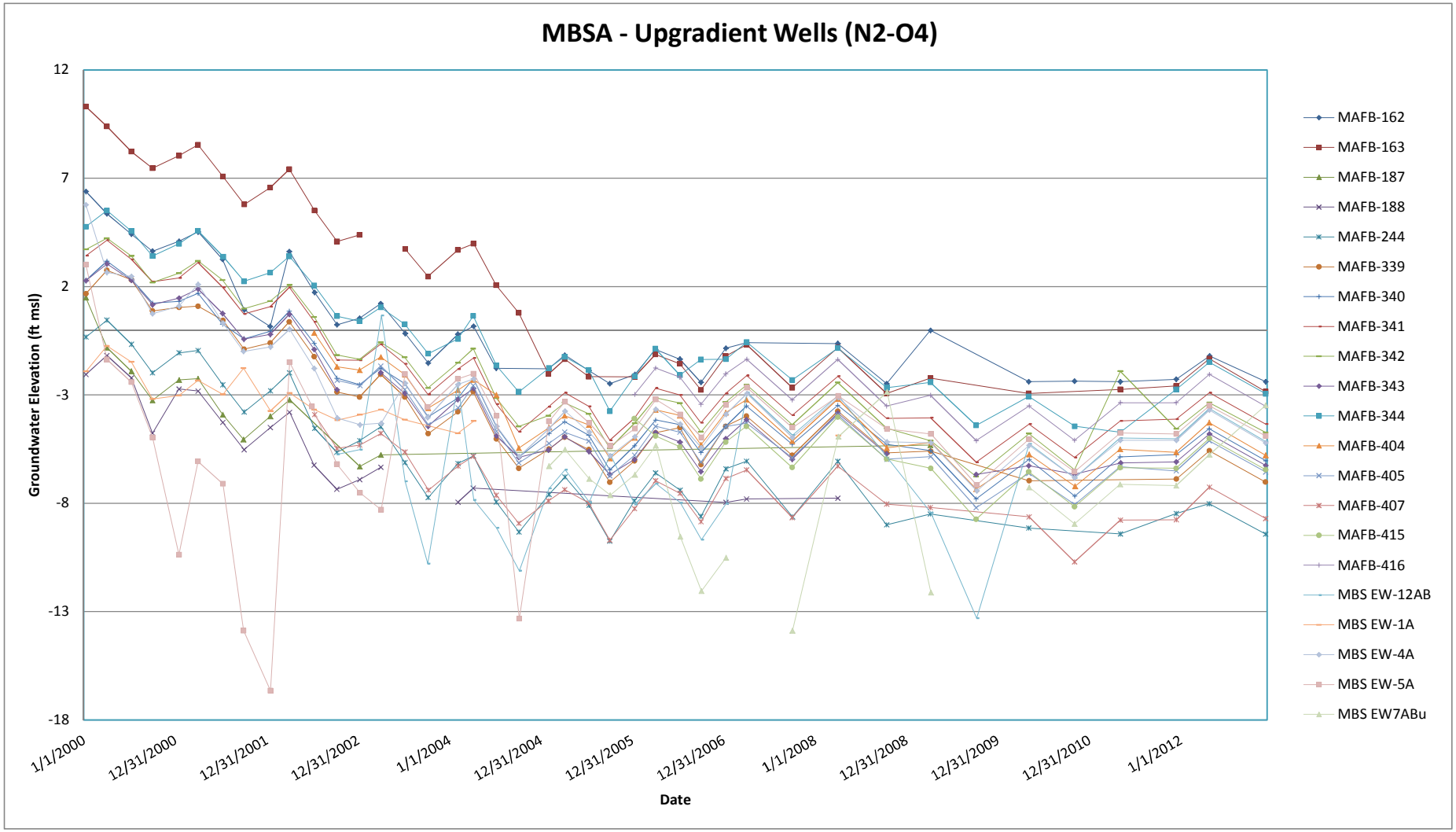

NEP - HSU WT/B
Groundwater Elevation (ft msl)
34
24
14
4
-6
-16
1/1/2000
12/31/2000
12/31/2001
12/31/2002
1/1/2004
12/31/2004
12/31/2005
12/31/2006
1/1/2008
12/31/2008
12/31/2009
12/31/2010
1/1/2012
Date
MAFB-075
MAFB-110
MAFB-111
MAFB-128
MAFB-130
MAFB-131
MAFB-132
MAFB-133
MAFB-136
MAFB-141
MAFB-276
MAFB-277
MAFB-278
MAFB-289
MAFB-389
MAFB-390
MAFB-398
MAFB-409
MAFB-465

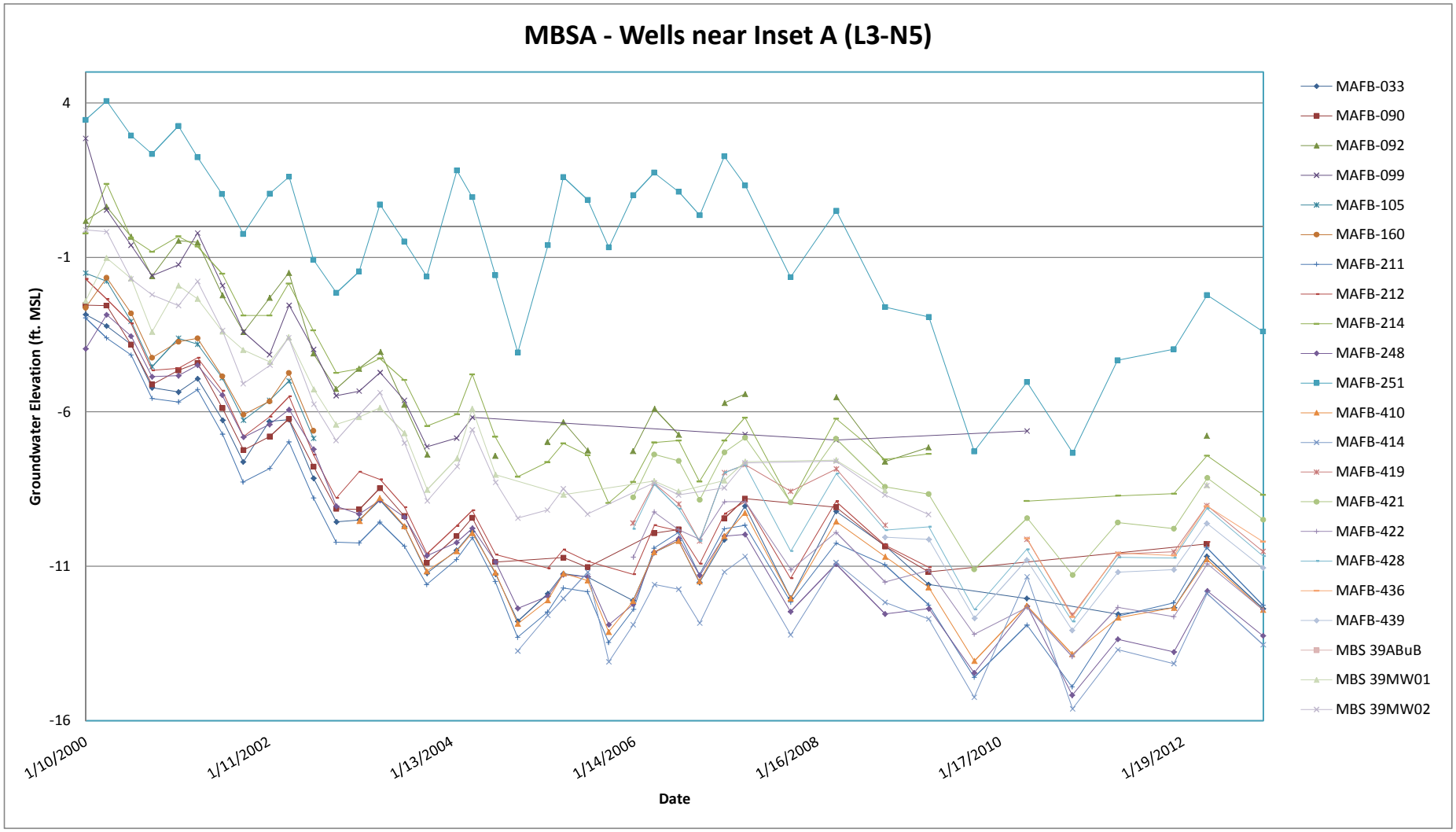

NEP - HSU WT/C
Groundwater Elevation (ft msl)
38
28
18
8
-2
-12
1/1/2000
12/31/2000
12/31/2001
12/31/2002
1/1/2004
12/31/2004
12/31/2005
12/31/2006
1/1/2008
12/31/2008
12/31/2009
12/31/2010
1/1/2012
Date
MAFB-109
MAFB-112
MAFB-127
MAFB-129
MAFB-139
MAFB-140
MAFB-438
MAFB-465

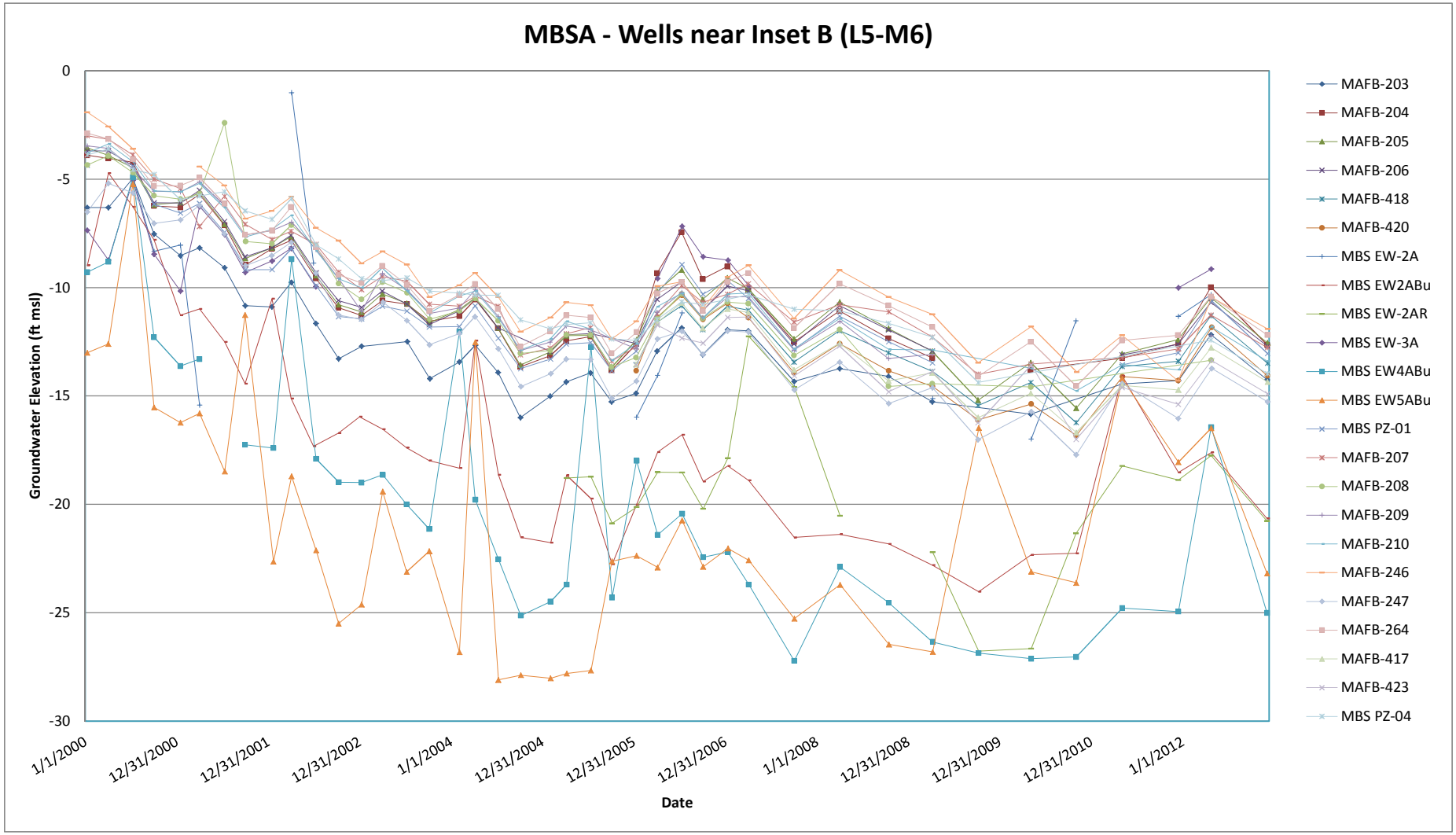

AC&W
Groundwater Elevation (ft msl)
10
5
0
-5
-10
-15
-20
-25
1/1/2000
12/31/2000
12/31/2001
12/31/2002
1/1/2004
12/31/2004
12/31/2005
12/31/2006
1/1/2008
12/31/2008
12/31/2009
12/31/2010
1/1/2012
Date
ACW PZ-07
ACW PZ-08
ACW PZ-09
ACW PZ-10
MAFB-054
MAFB-082
MAFB-197
MAFB-401
MAFB-402
MAFB-403
MAFB-408
MAFB-432
MAFB-433
MAFB-453
MAFB-454
MAFB-455
MAFB-456

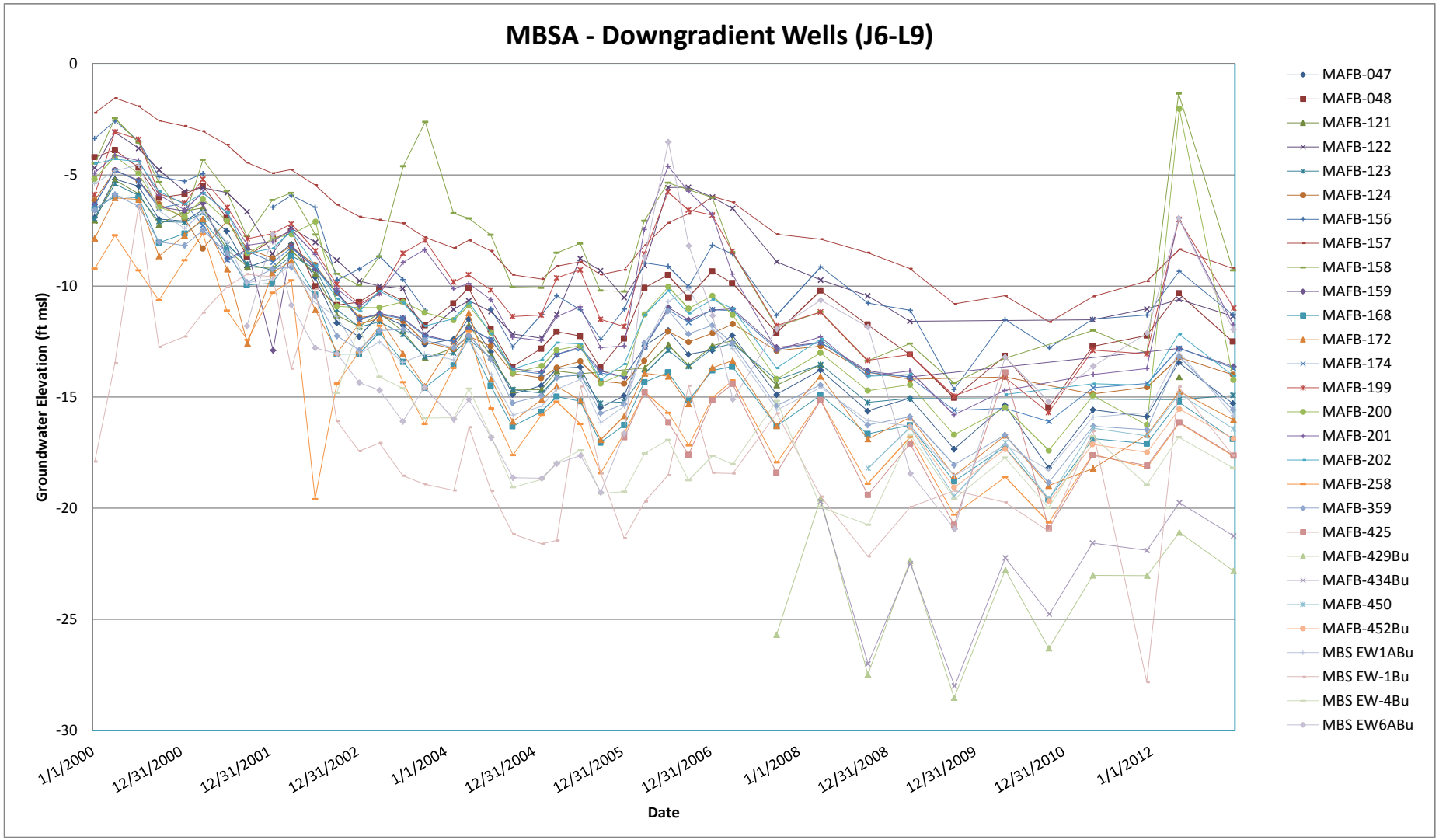

Site 7
Groundwater Elevation (ft msl)
-5
-7
-9
-11
-13
-15
-17
-19
-21
-23
1/1/2000
12/31/2000
12/31/2001
12/31/2002
1/1/2004
12/31/2004
12/31/2005
12/31/2006
1/1/2008
12/31/2008
12/31/2009
12/31/2010
1/1/2012
Date
MAFB-149
MAFB-424
MAFB-440
7-PZ-37
MAFB-413


MBSA - Eastern and Outlying Wells (O1-S7)
Grounndwater Elevation (ft msl)
12
7
2
-3
-8
-13
-18
1/1/2000
12/31/2000
12/31/2001
12/31/2002
1/1/2004
12/31/2004
12/31/2005
12/31/2006
1/1/2008
12/31/2008
12/31/2009
12/31/2010
1/1/2012
Date
MAFB-006
MAFB-012
MAFB-013
MAFB-093
MAFB-096
MAFB-097
MAFB-107
MAFB-108
MAFB-115
MAFB-116
MAFB-125
MAFB-126
MAFB-150
MAFB-151
MAFB-152
MAFB-154
MAFB-155
MAFB-406
MAFB-411
MAFB-412


MBSA - Upgradient Wells (N2-O4)
Groundwater Elevation (ft msl)
12
7
2
-3
-8
-13
-18
1/1/2000
12/31/2000
12/31/2001
12/31/2002
1/1/2004
12/31/2004
12/31/2005
12/31/2006
1/1/2008
12/31/2008
12/31/2009
12/31/2010
1/1/2012
Date
MAFB-162
MAFB-163
MAFB-187
MAFB-188
MAFB-244
MAFB-339
MAFB-340
MAFB-341
MAFB-342
MAFB-343
MAFB-344
MAFB-404
MAFB-405
MAFB-407
MAFB-415
MAFB-416
MBS EW-12AB
MBS EW-1A
MBS EW-4A
MBS EW-5A
MBS EW7ABu

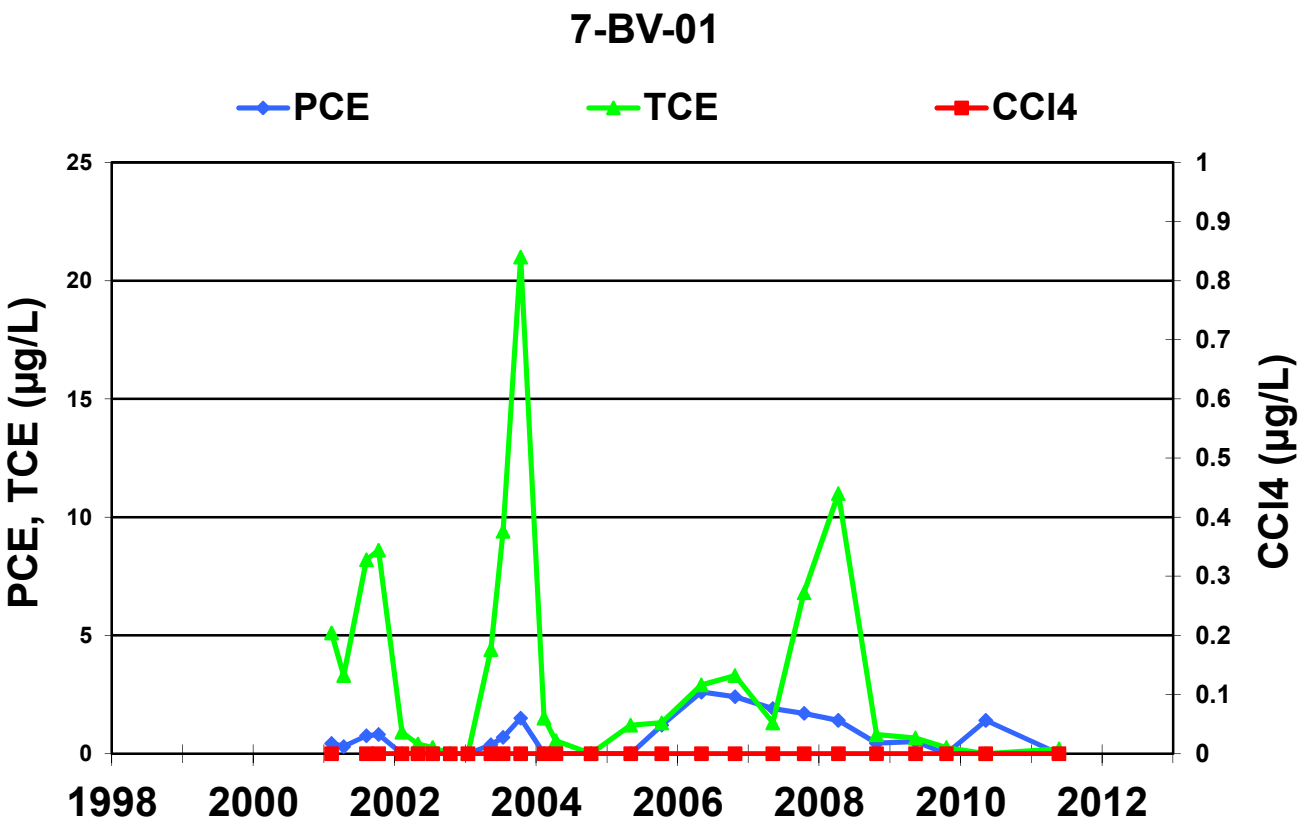

MBSA - Wells near Inset A (L3-N5)
Groundwater Elevation (ft. MSL)
4
-1
-6
-11
-16
1/10/2000
1/11/2002
1/13/2004
1/14/2006
1/16/2008
1/17/2010
1/19/2012
Date
MAFB-033
MAFB-090
MAFB-092
MAFB-099
MAFB-105
MAFB-160
MAFB-211
MAFB-212
MAFB-214
MAFB-248
MAFB-251
MAFB-410
MAFB-414
MAFB-419
MAFB-421
MAFB-422
MAFB-428
MAFB-436
MAFB-439
MBS 39ABuB
MBS 39MW01
MBS 39MW02

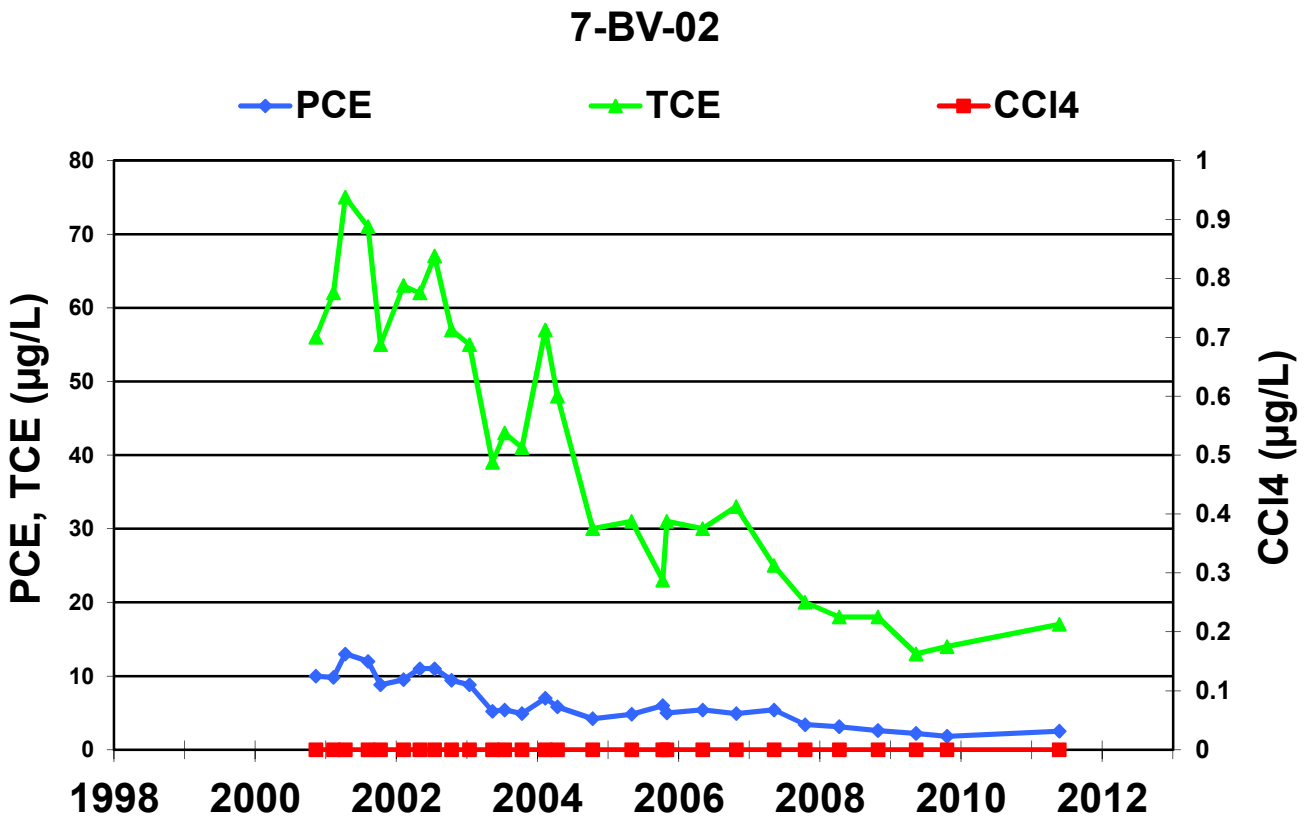

MBSA - Wells near Inset B (L5-M6)
Groundwater Elevation (ft msl)
0
-5
-10
-15
-20
-25
-30
1/1/2000
12/31/2000
12/31/2001
12/31/2002
1/1/2004
12/31/2004
12/31/2005
12/31/2006
1/1/2008
12/31/2008
12/31/2009
12/31/2010
1/1/2012
Date
MAFB-203
MAFB-204
MAFB-205
MAFB-206
MAFB-418
MAFB-420
MBS EW-2A
MBS EW2ABu
MBS EW-2AR
MBS EW-3A
MBS EW4ABu
MBS EW5ABu
MBS PZ-01
MAFB-207
MAFB-208
MAFB-209
MAFB-210
MAFB-246
MAFB-247
MAFB-264
MAFB-417
MAFB-423
MBS PZ-04

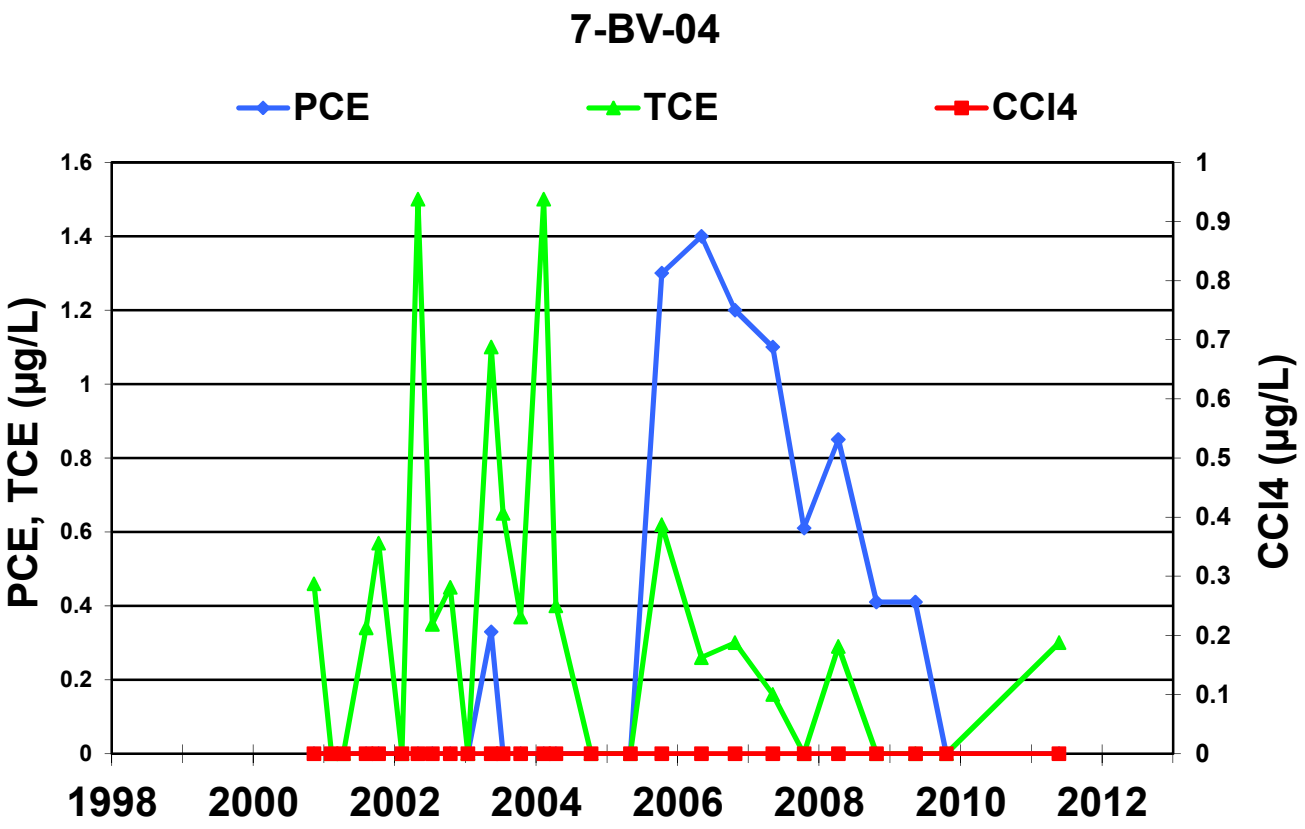

MBSA - Downgradient Wells (J6-L9)
Groundwater Elevation (ft msl)
0
-5
-10
-15
-20
-25
-30
1/1/2000
12/31/2000
12/31/2001
12/31/2002
1/1/2004
12/31/2004
12/31/2005
12/31/2006
1/1/2008
12/31/2008
12/31/2009
12/31/2010
1/1/2012
Date
MAFB-047
MAFB-048
MAFB-121
MAFB-122
MAFB-123
MAFB-124
MAFB-156
MAFB-157
MAFB-158
MAFB-159
MAFB-168
MAFB-172
MAFB-174
MAFB-199
MAFB-200
MAFB-201
MAFB-202
MAFB-258
MAFB-359
MAFB-425
MAFB-429Bu
MAFB-434Bu
MAFB-450
MAFB-452Bu
MBS EW1ABu
MBS EW-1Bu
MBS EW-4Bu
MBS EW6ABu

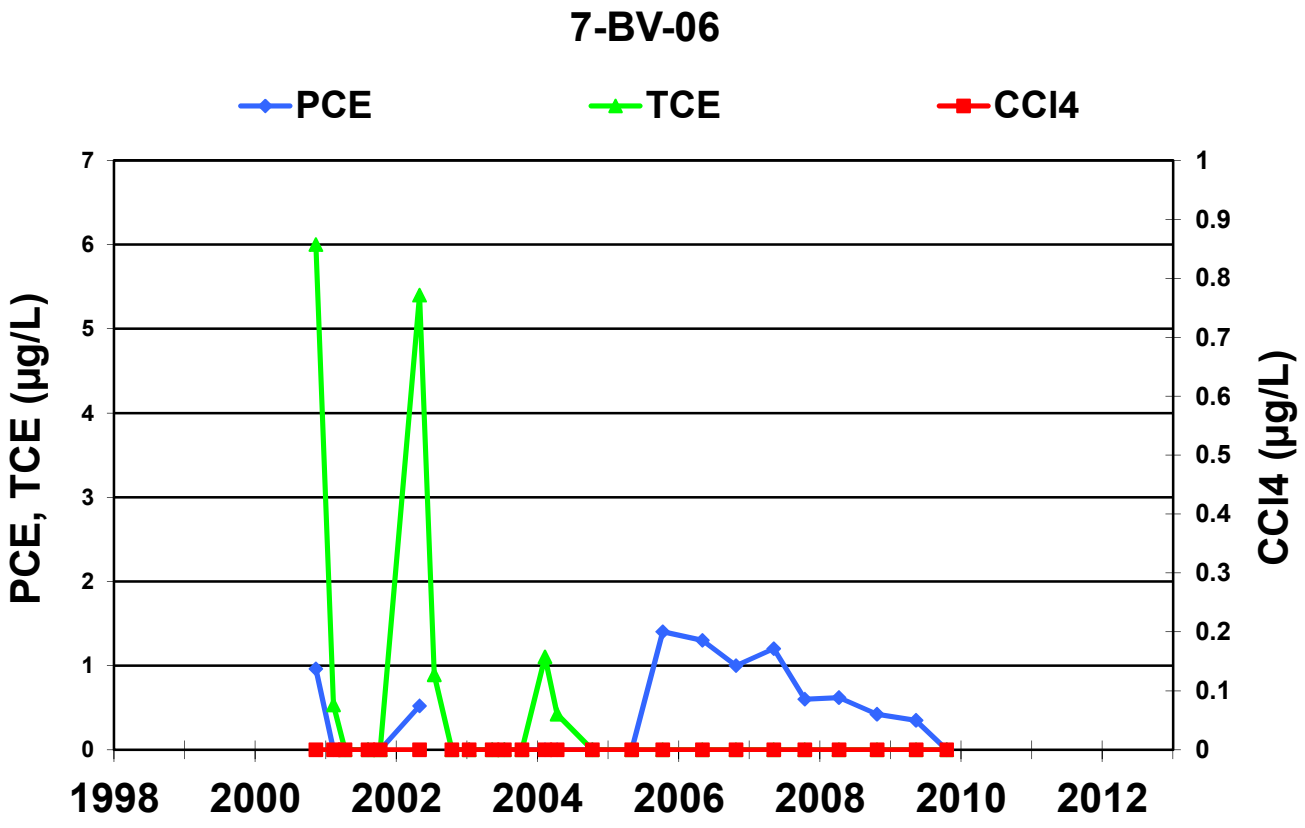
APPENDIX C

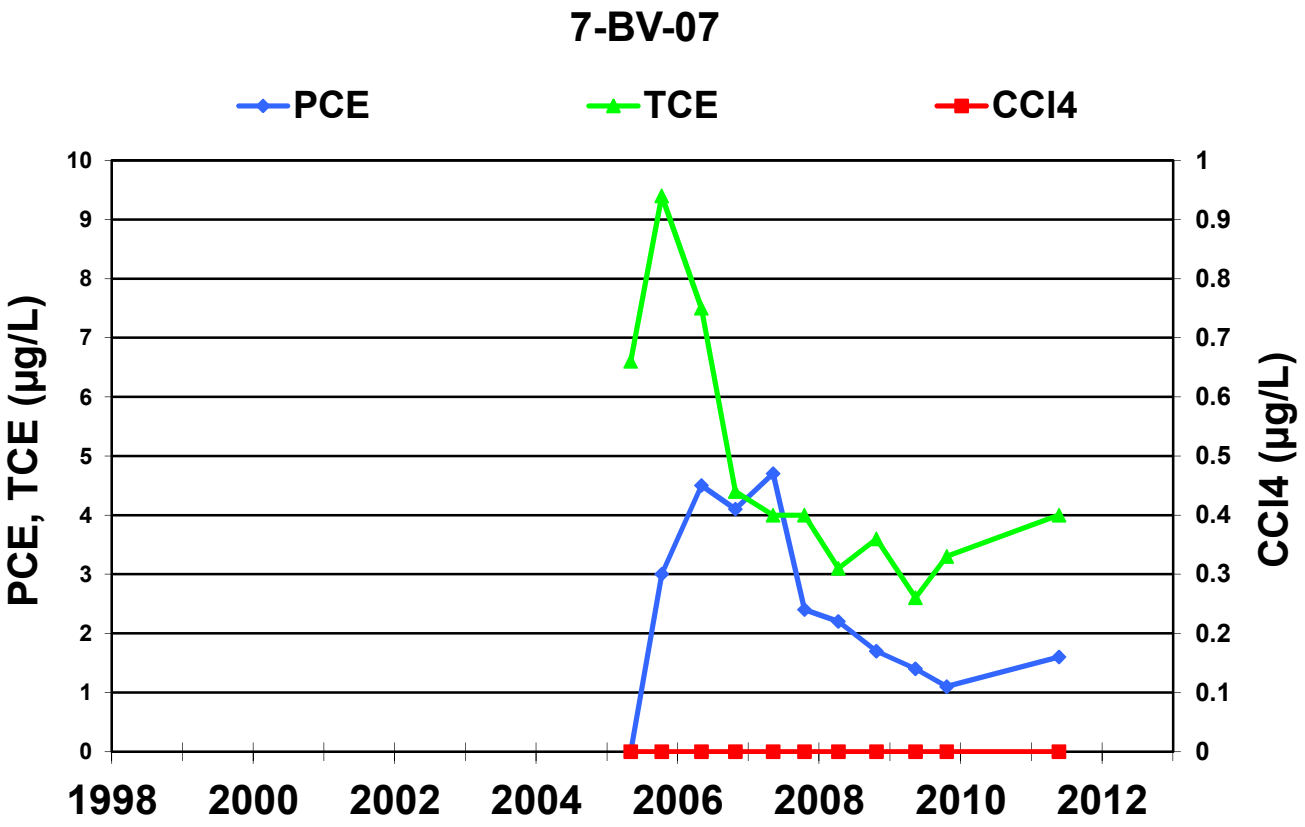
PCE, TCE, and CCl_4 Concentration Trend Plots

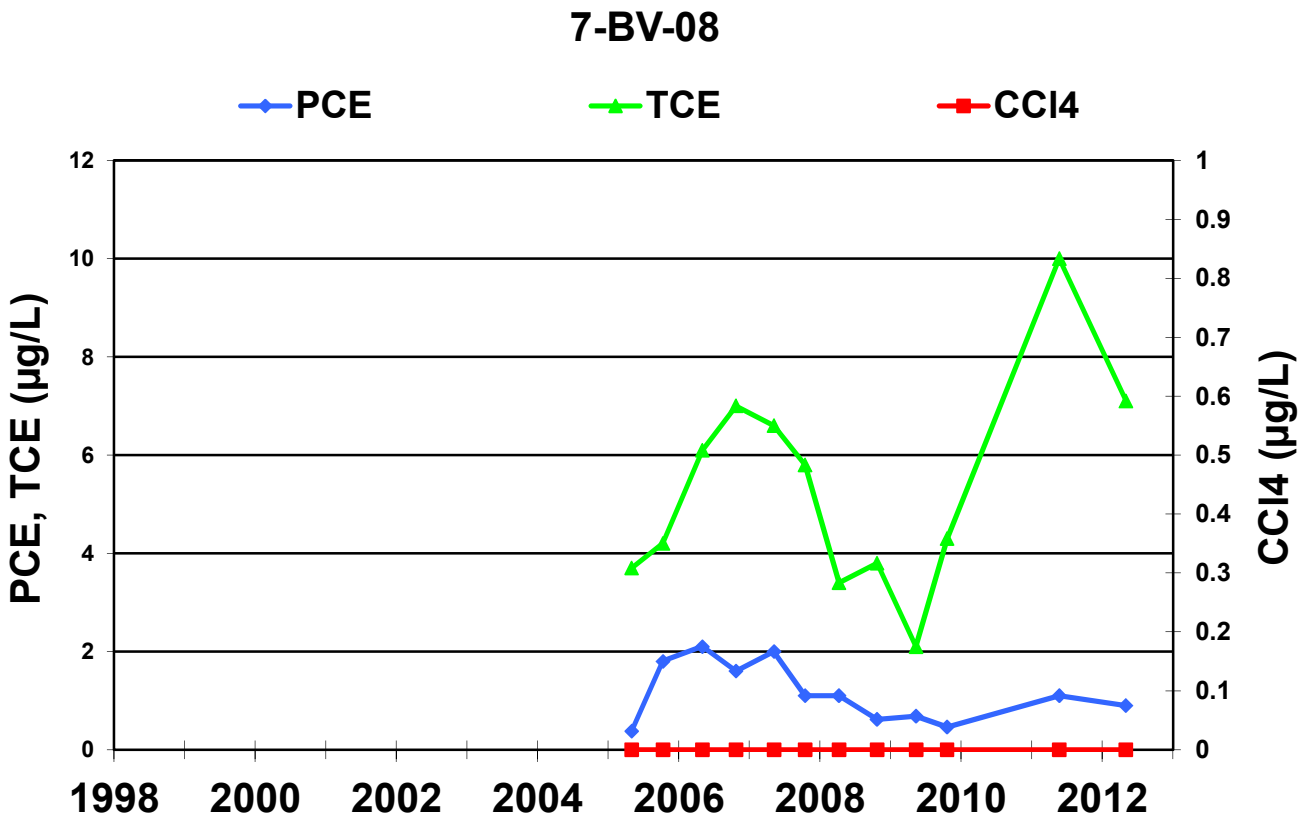

7-BV-01
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

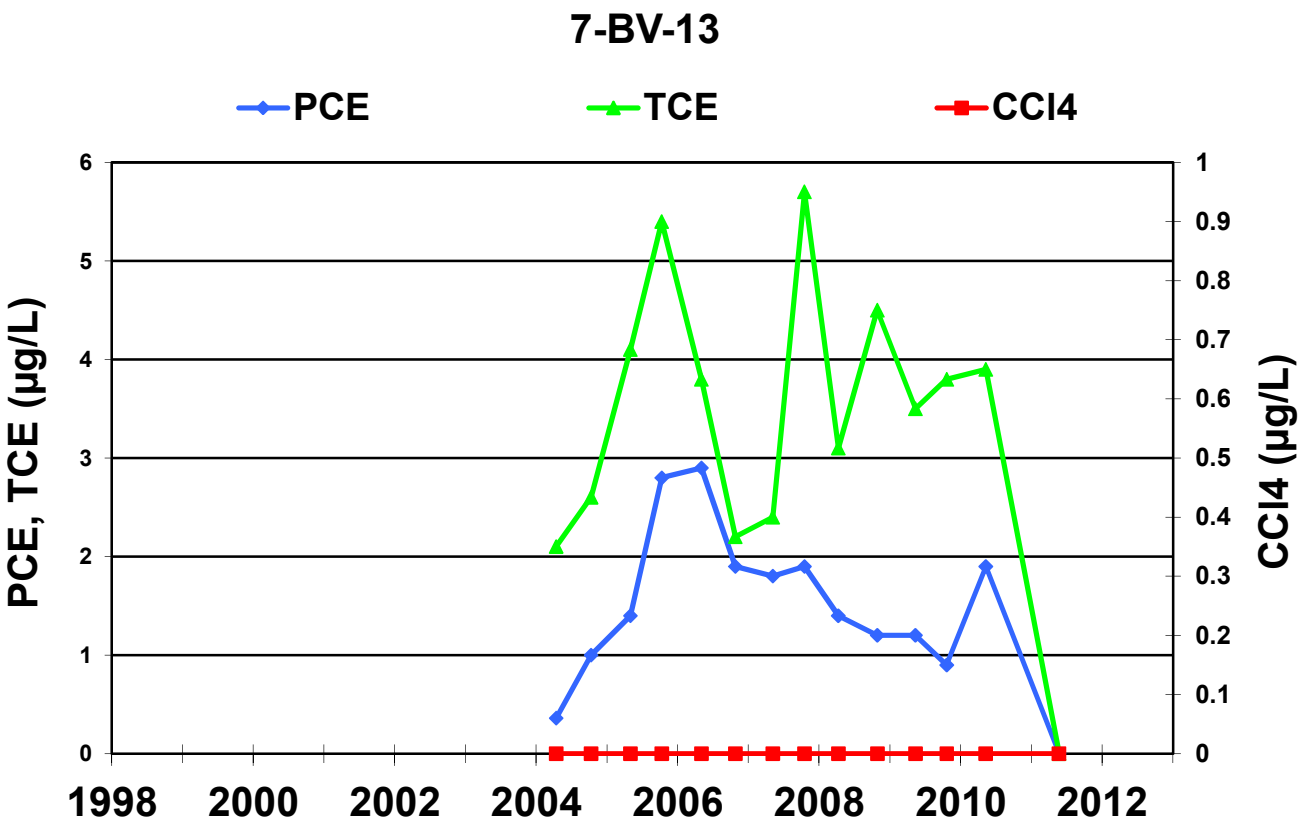

7-BV-02
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
80
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

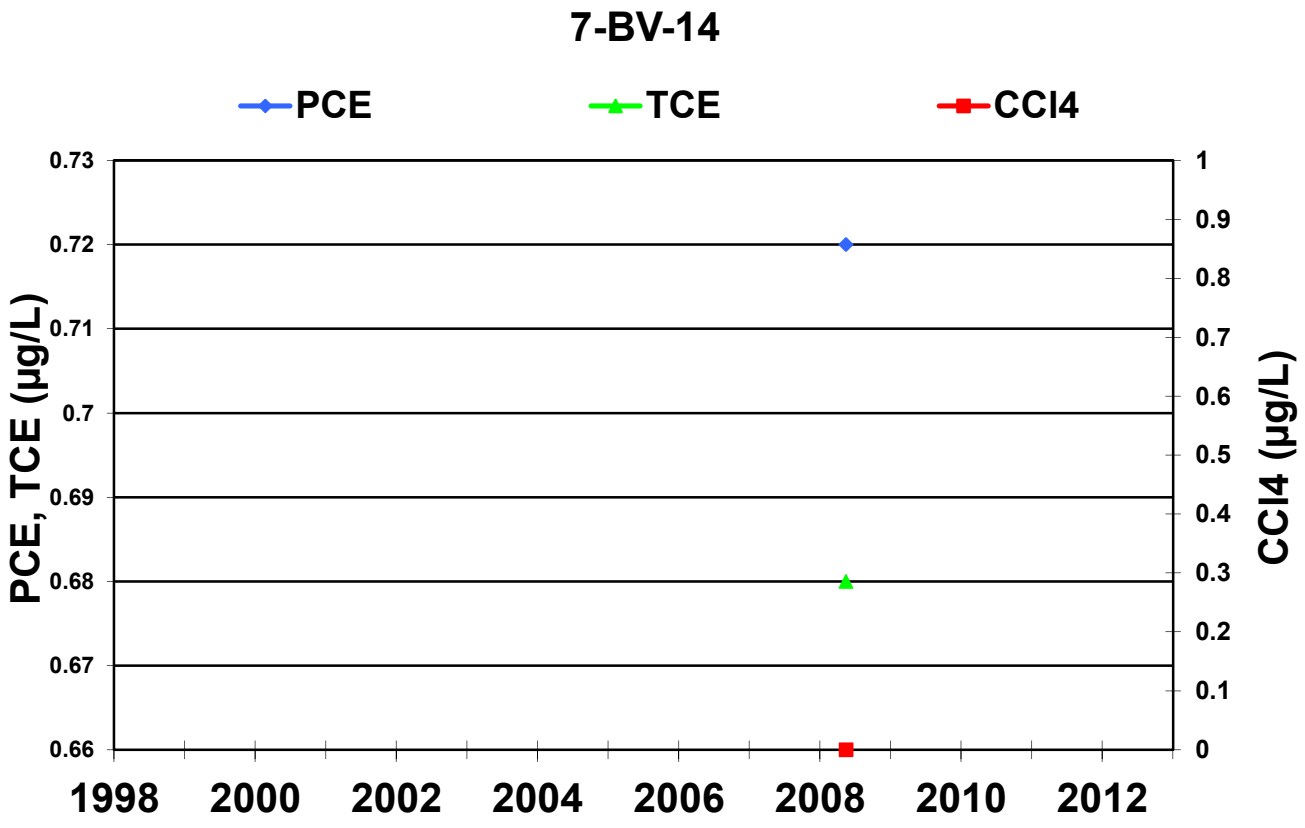

7-BV-04
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

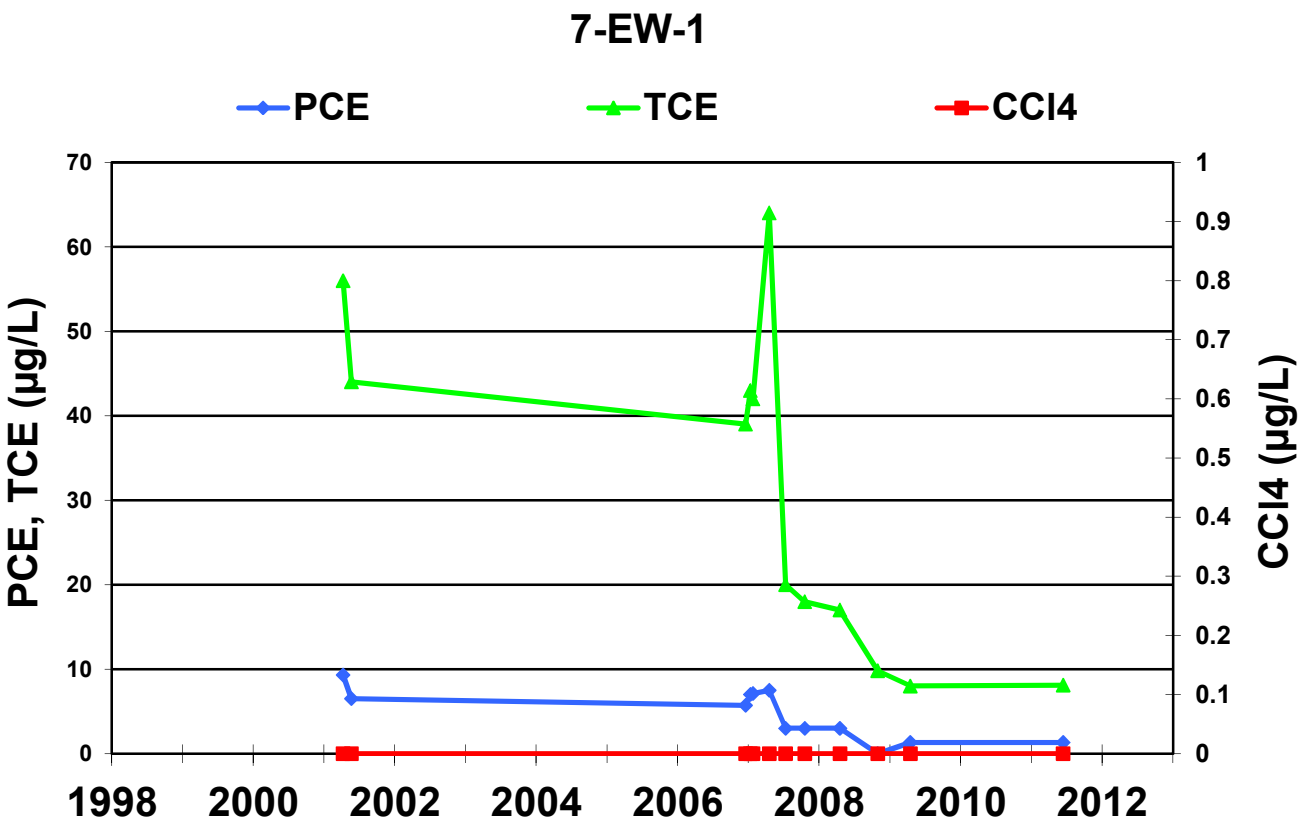

7-BV-06
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
7
6
5
4
3
2
1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

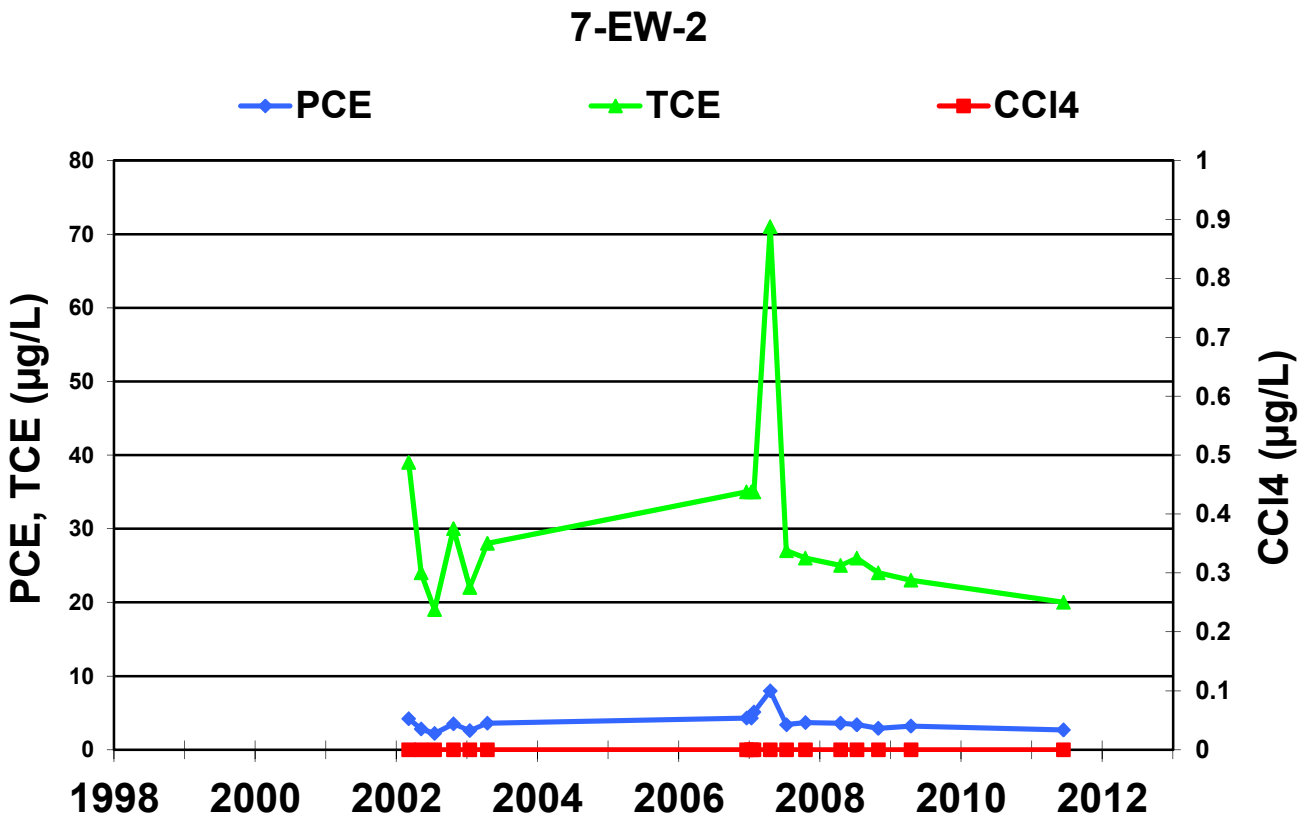

7-BV-07
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
1
2
3
4
5
6
7
8
9
10
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1998
2000
2002
2004
2006
2008
2010
2012

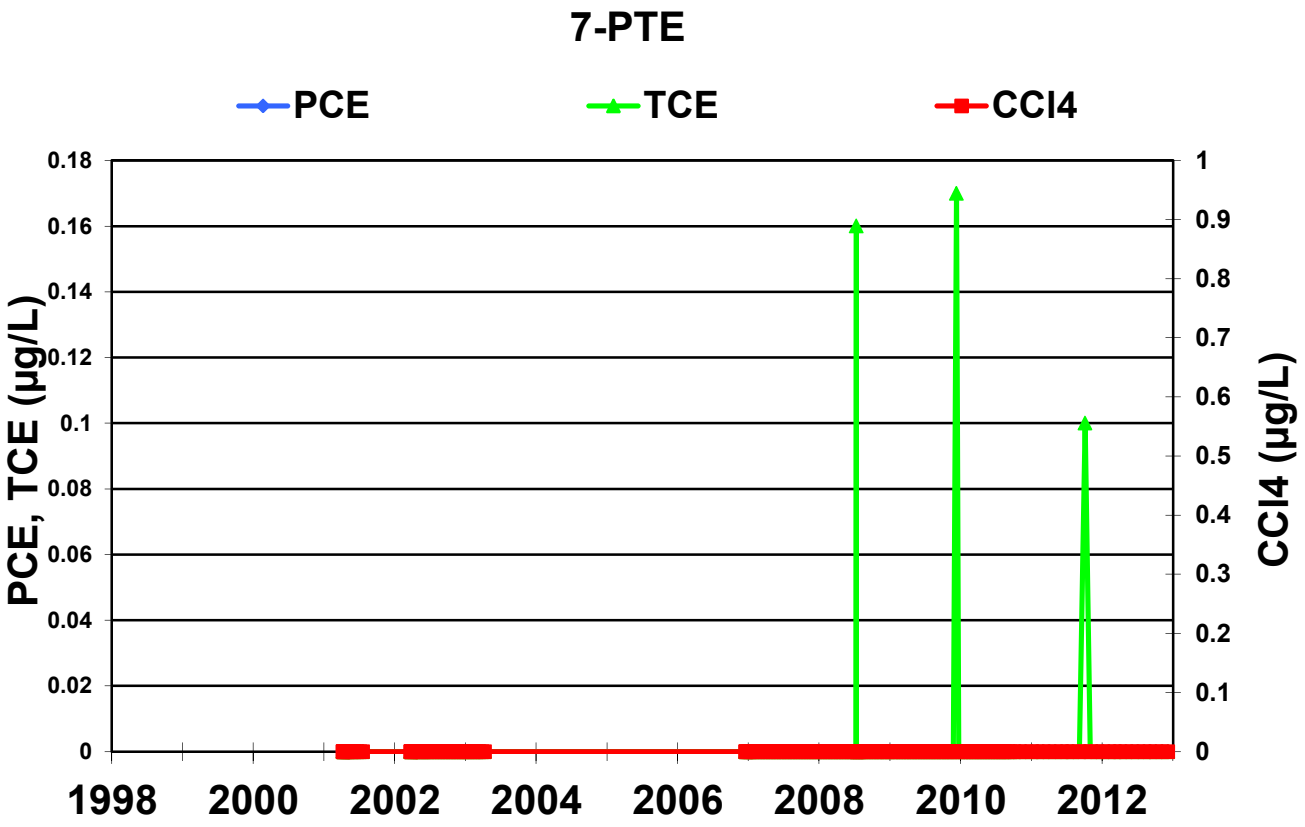

7-BV-08
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
2
4
6
8
10
12
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1998
2000
2002
2004
2006
2008
2010
2012

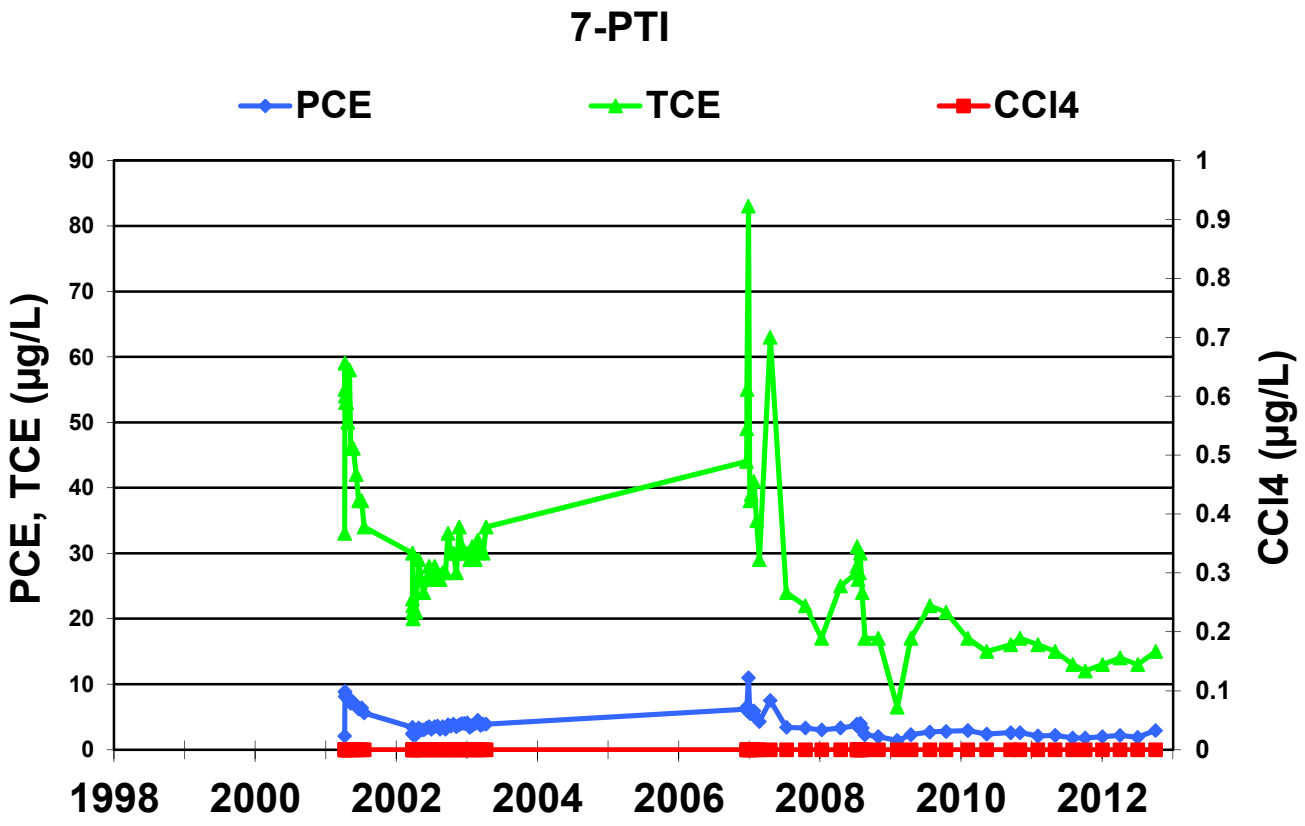

7-BV-13
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
1
2
3
4
5
6
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1998
2000
2002
2004
2006
2008
2010
2012

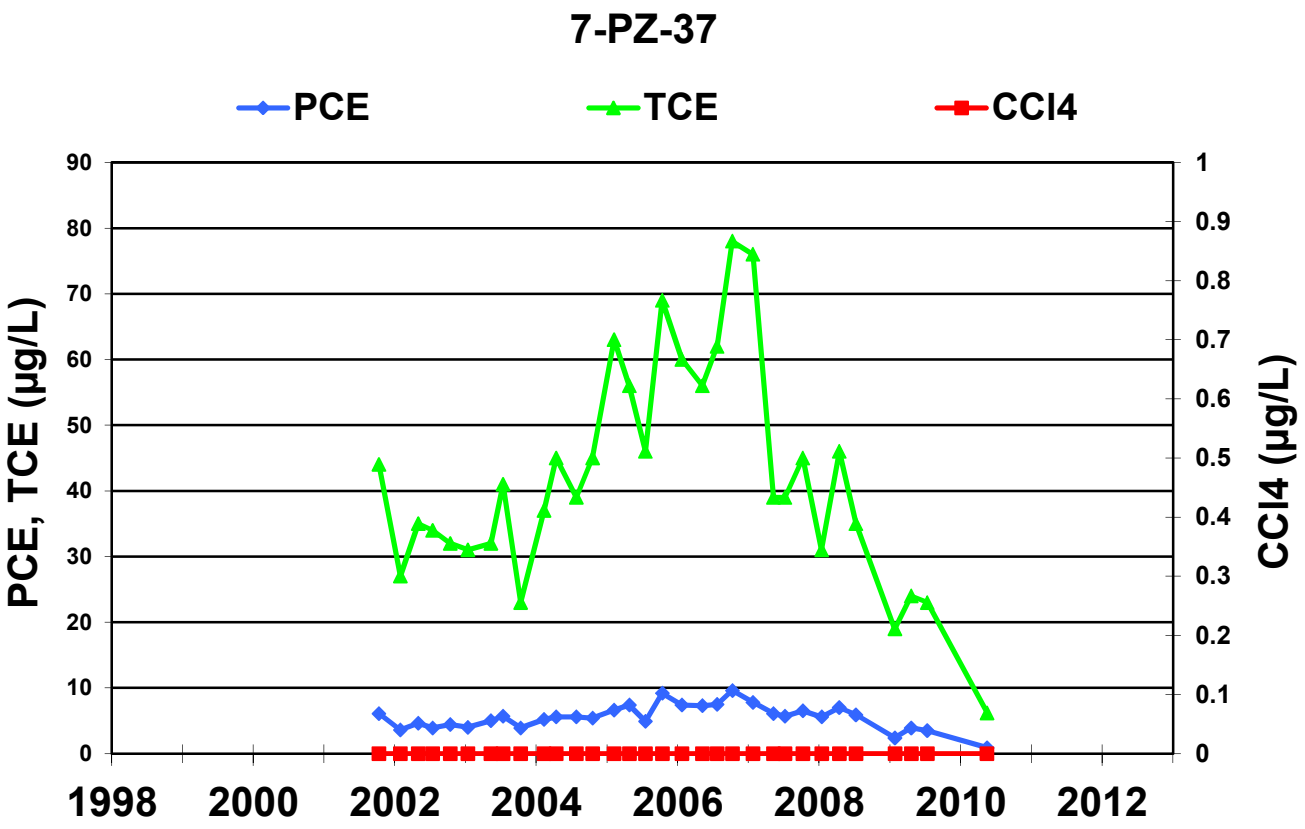

7-BV-14
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.66
0.67
0.68
0.69
0.7
0.71
0.72
0.73
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1998
2000
2002
2004
2006
2008
2010
2012

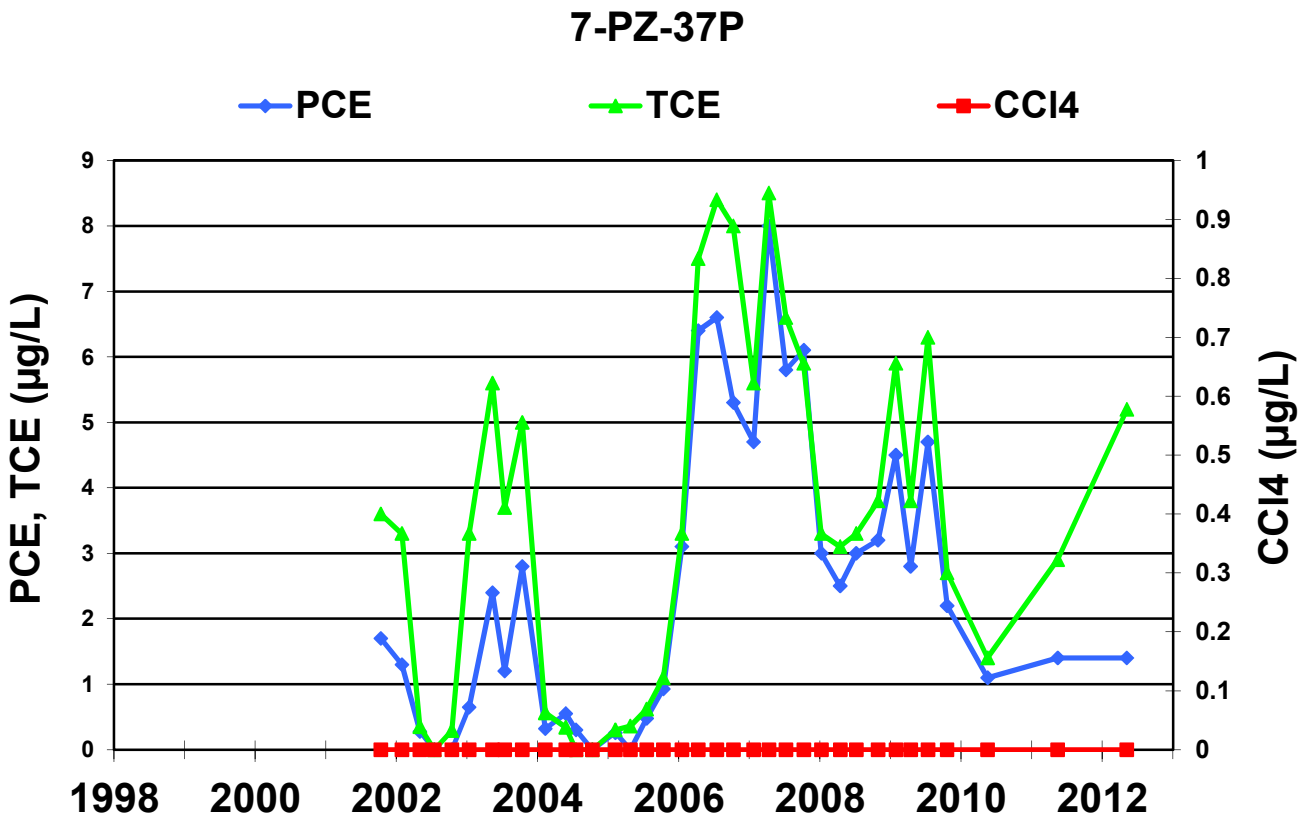

7-EW-1
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

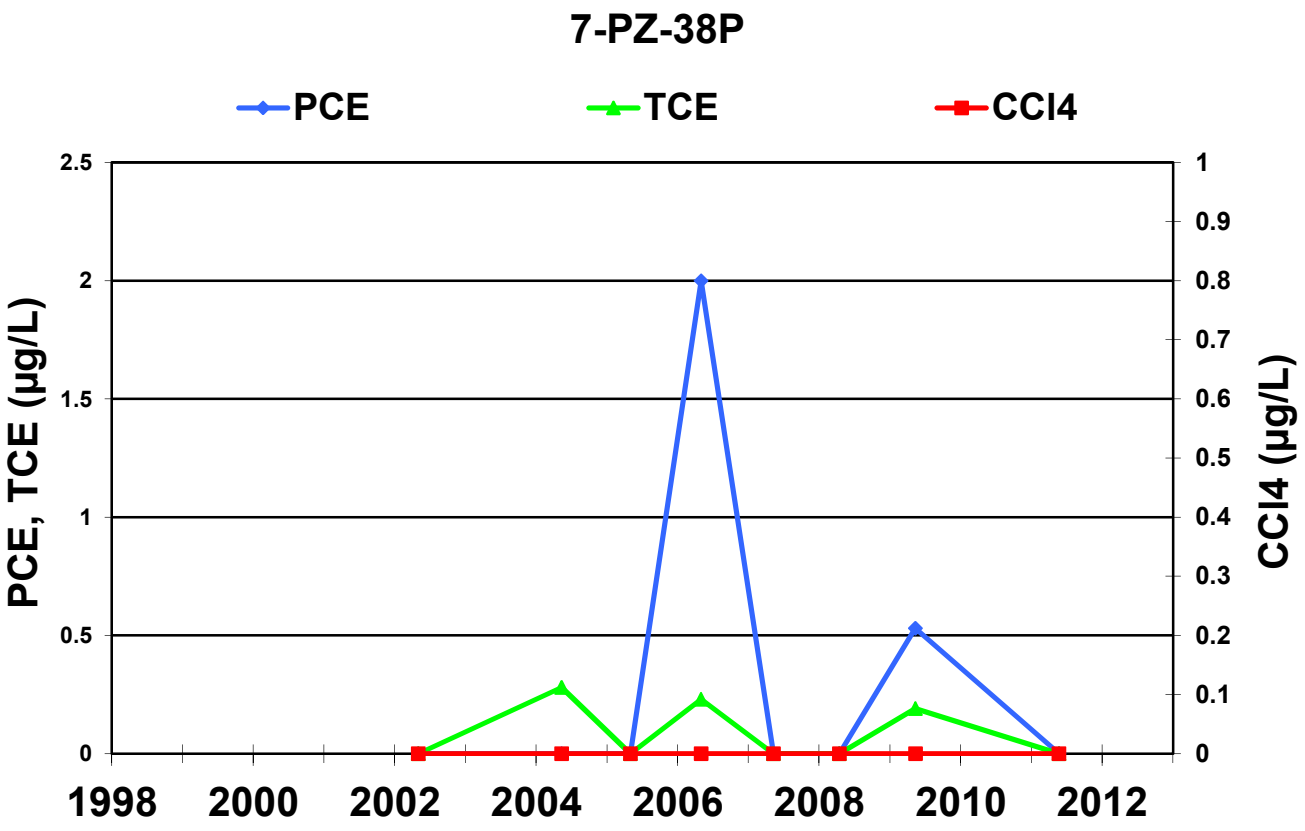

7-EW-2
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
80
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

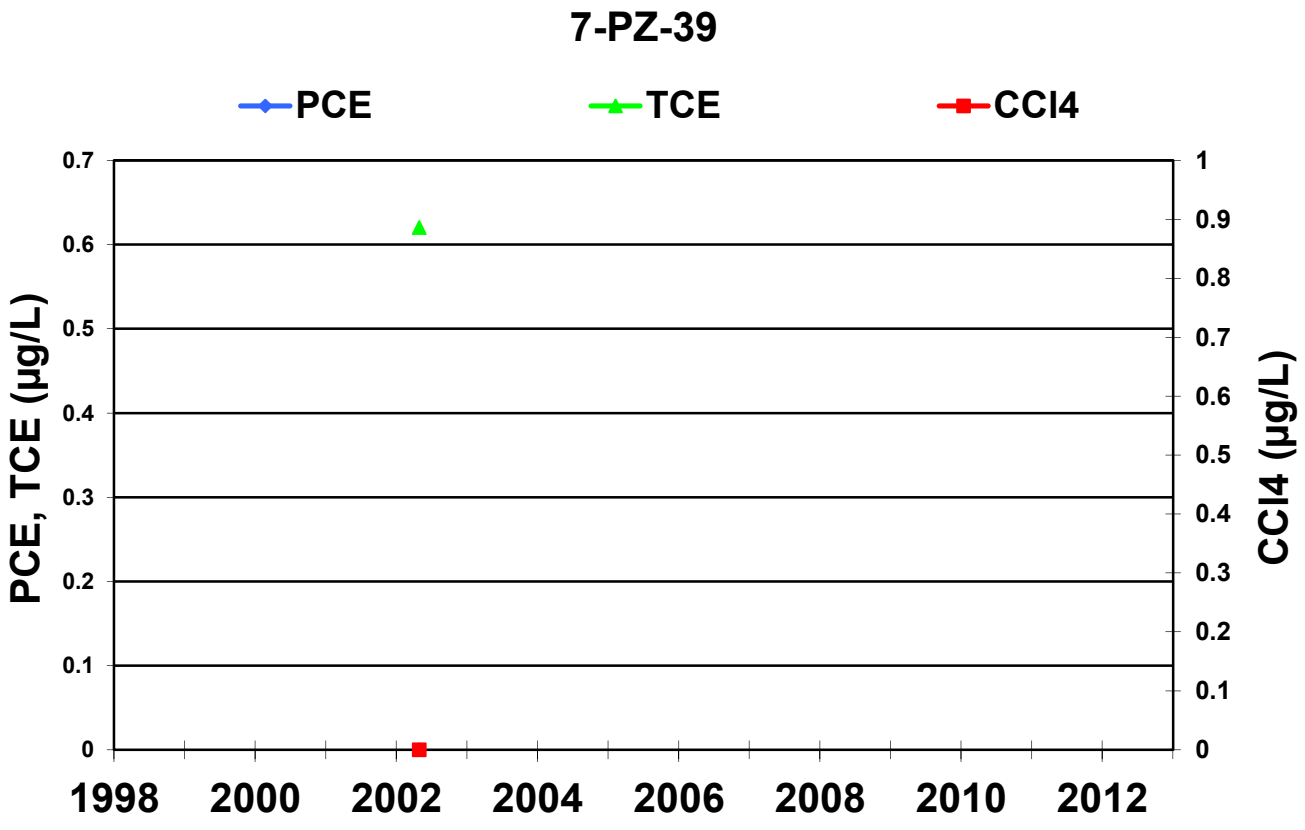

7-PTE
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

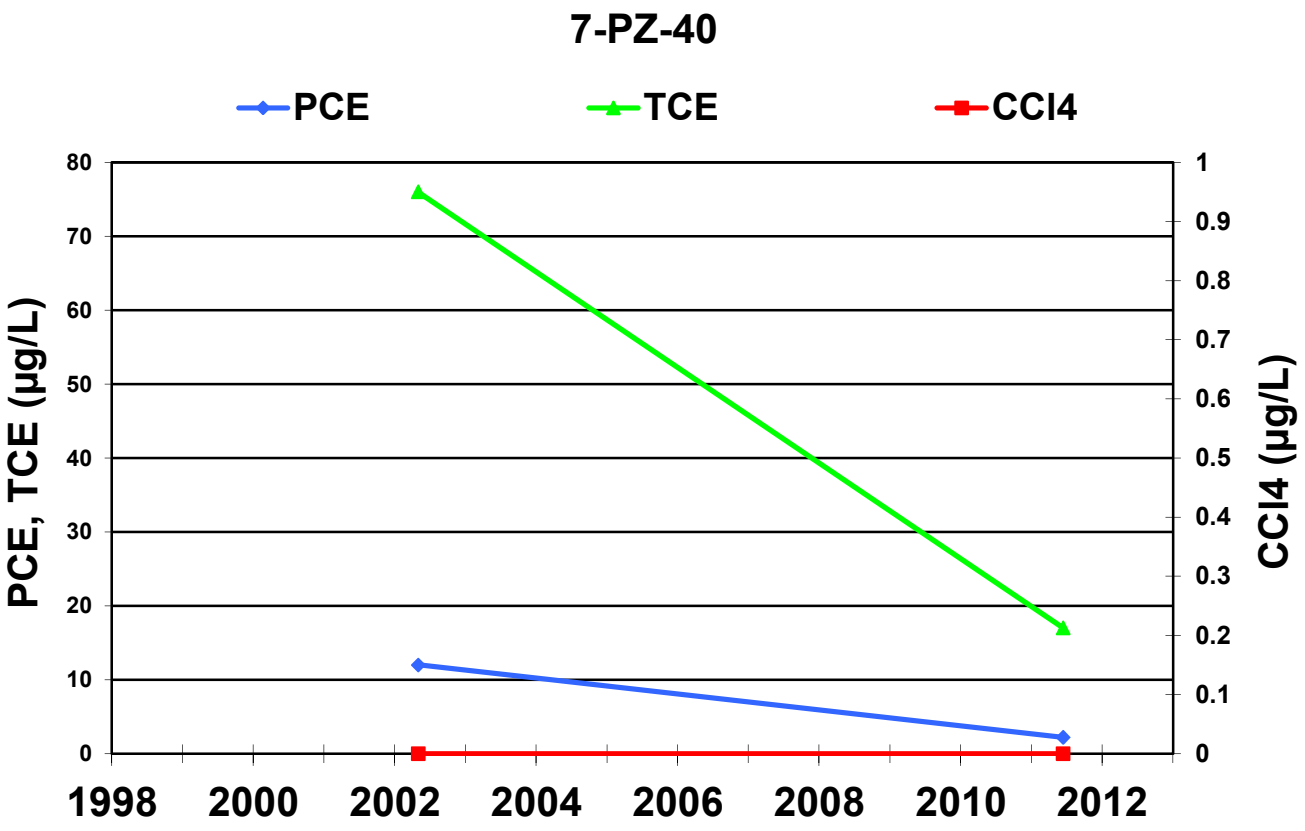

7-PTI
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
90
80
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

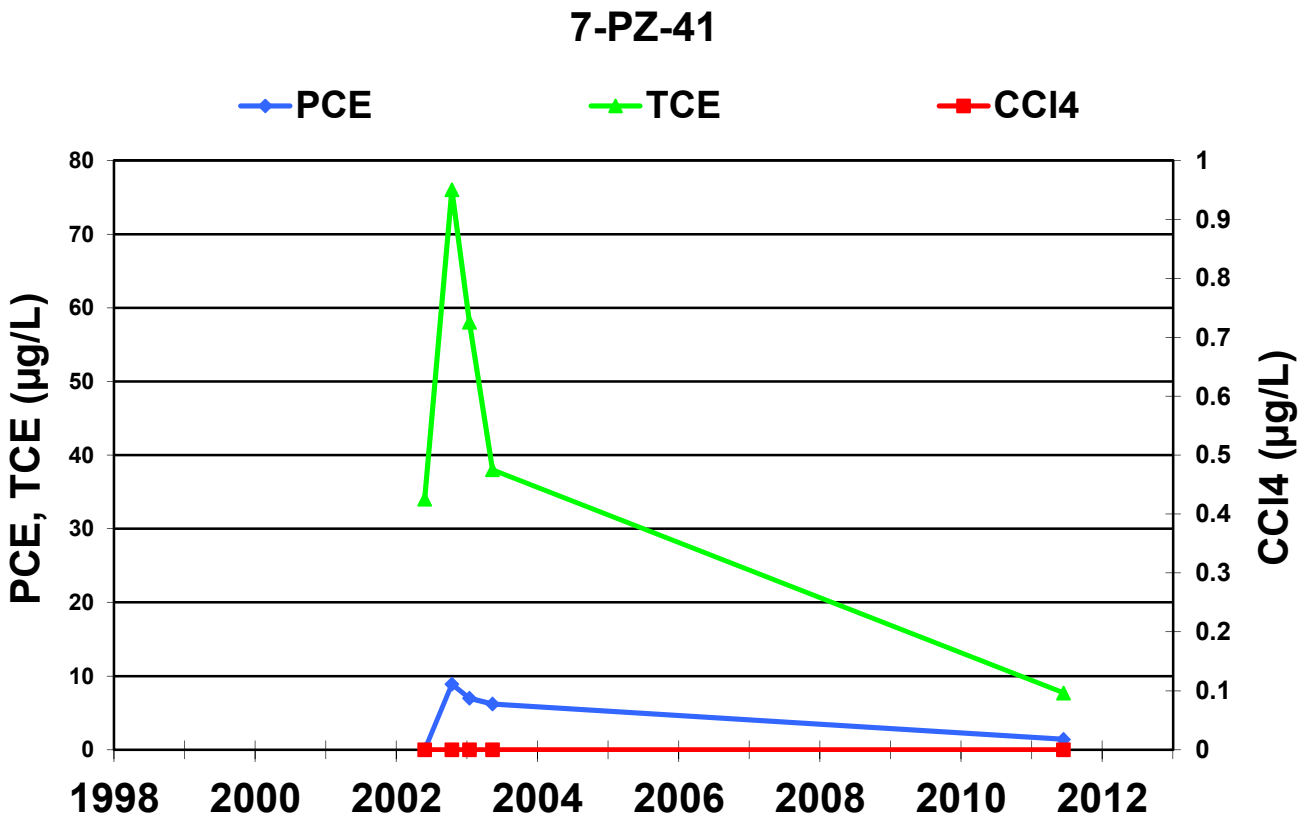

7-PZ-37
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
90
80
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

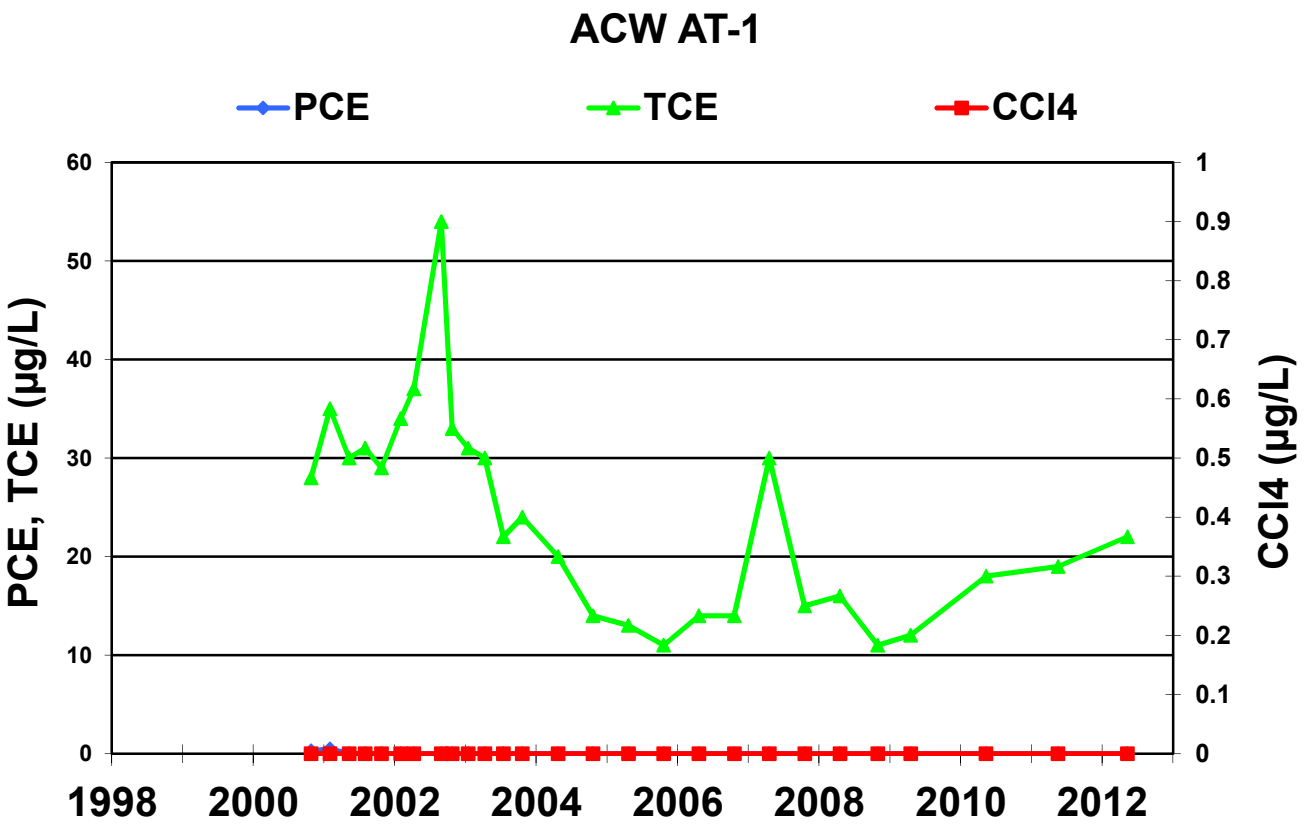

7-PZ-37P
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
9
8
7
6
5
4
3
2
1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

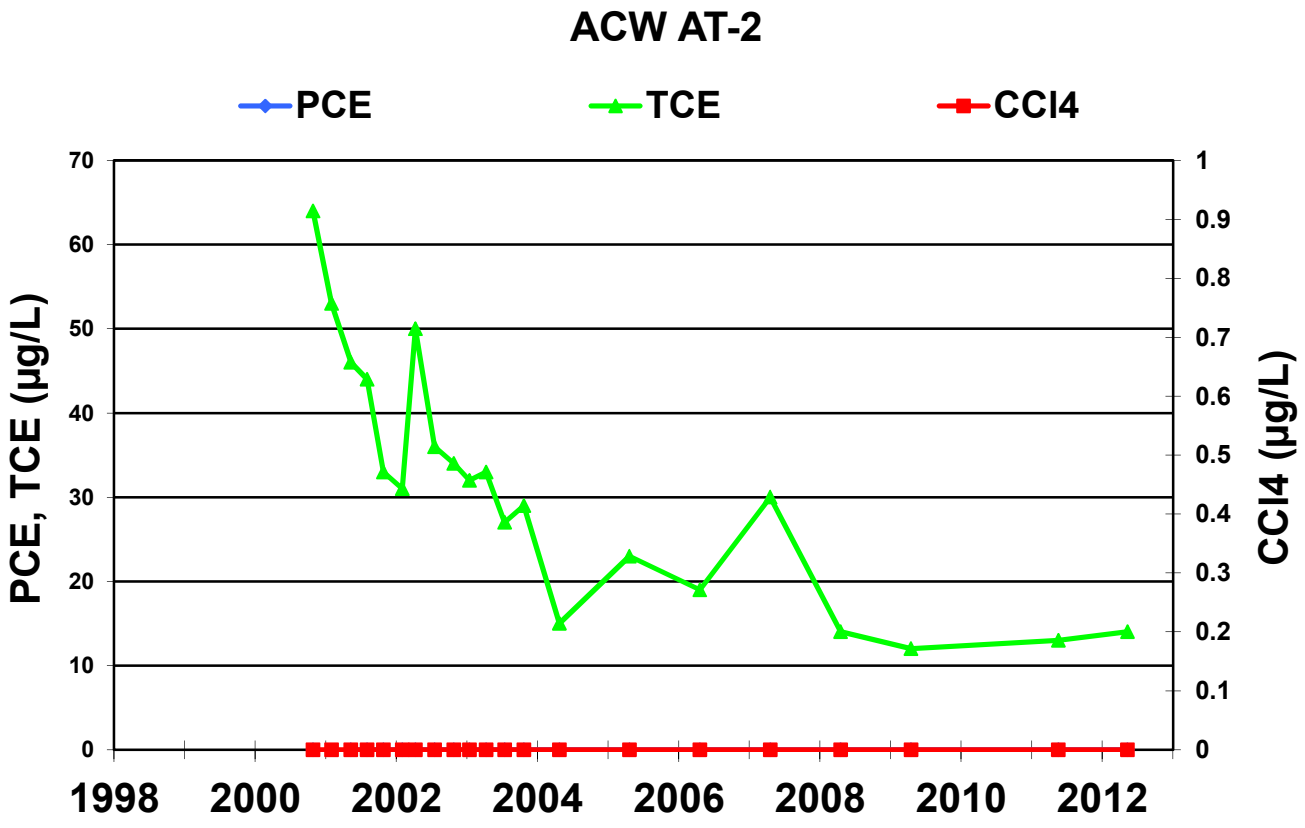

7-PZ-38P
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

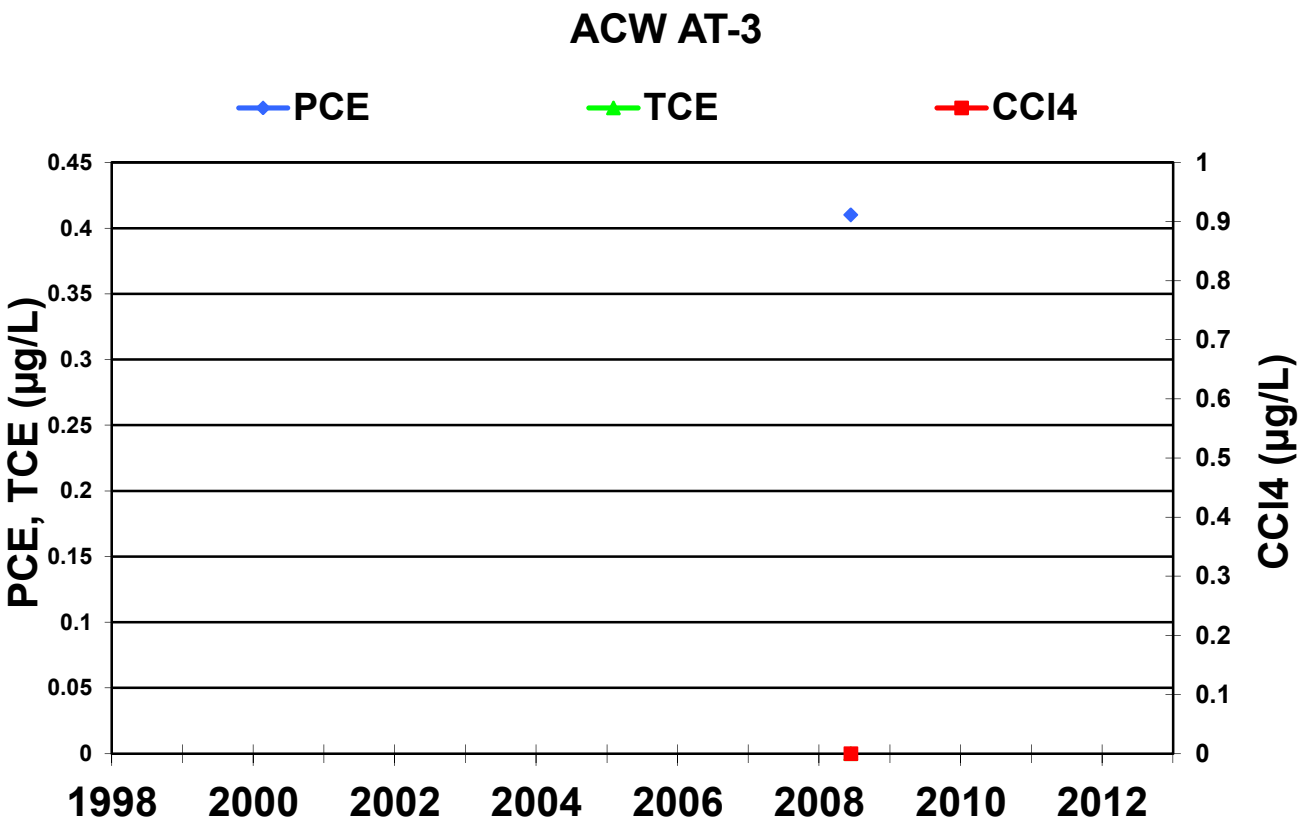

7-PZ-39
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

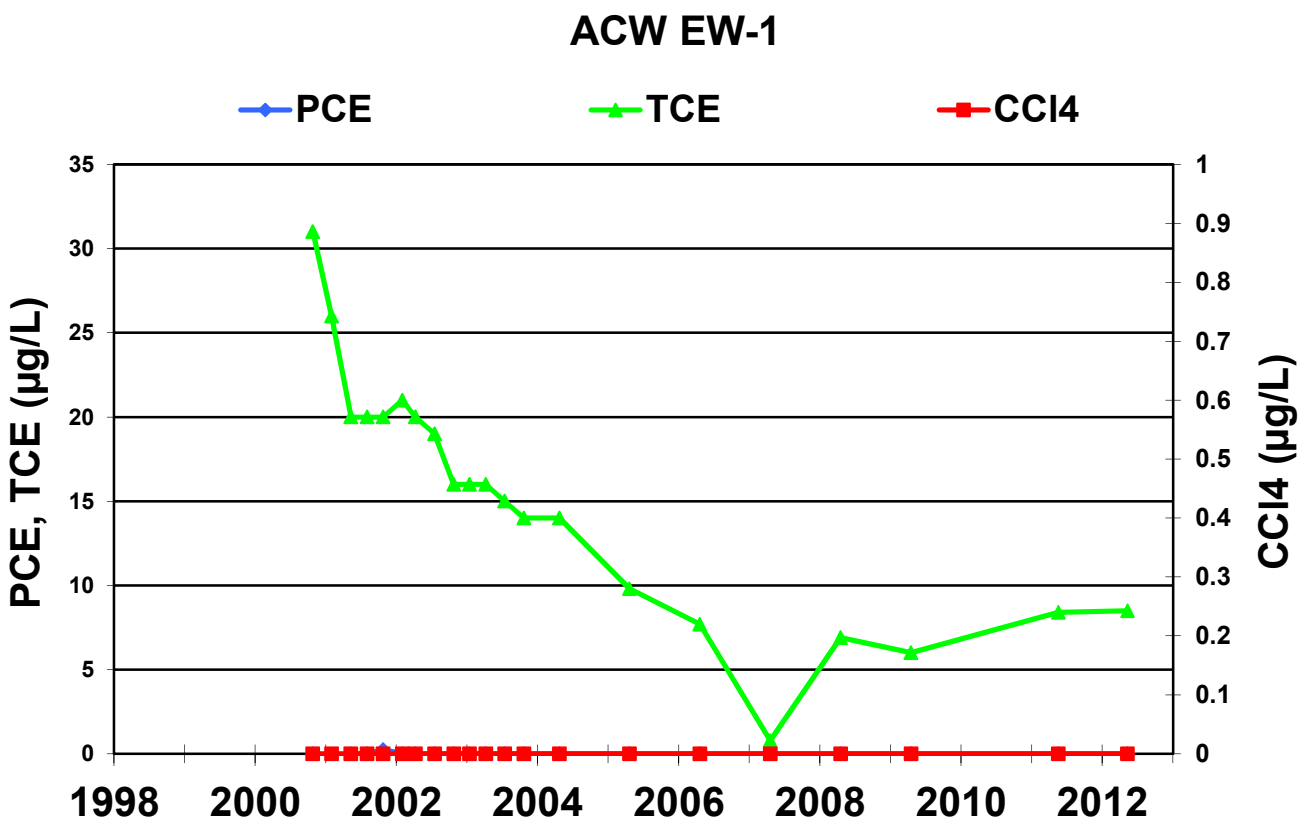

7-PZ-40
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
80
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

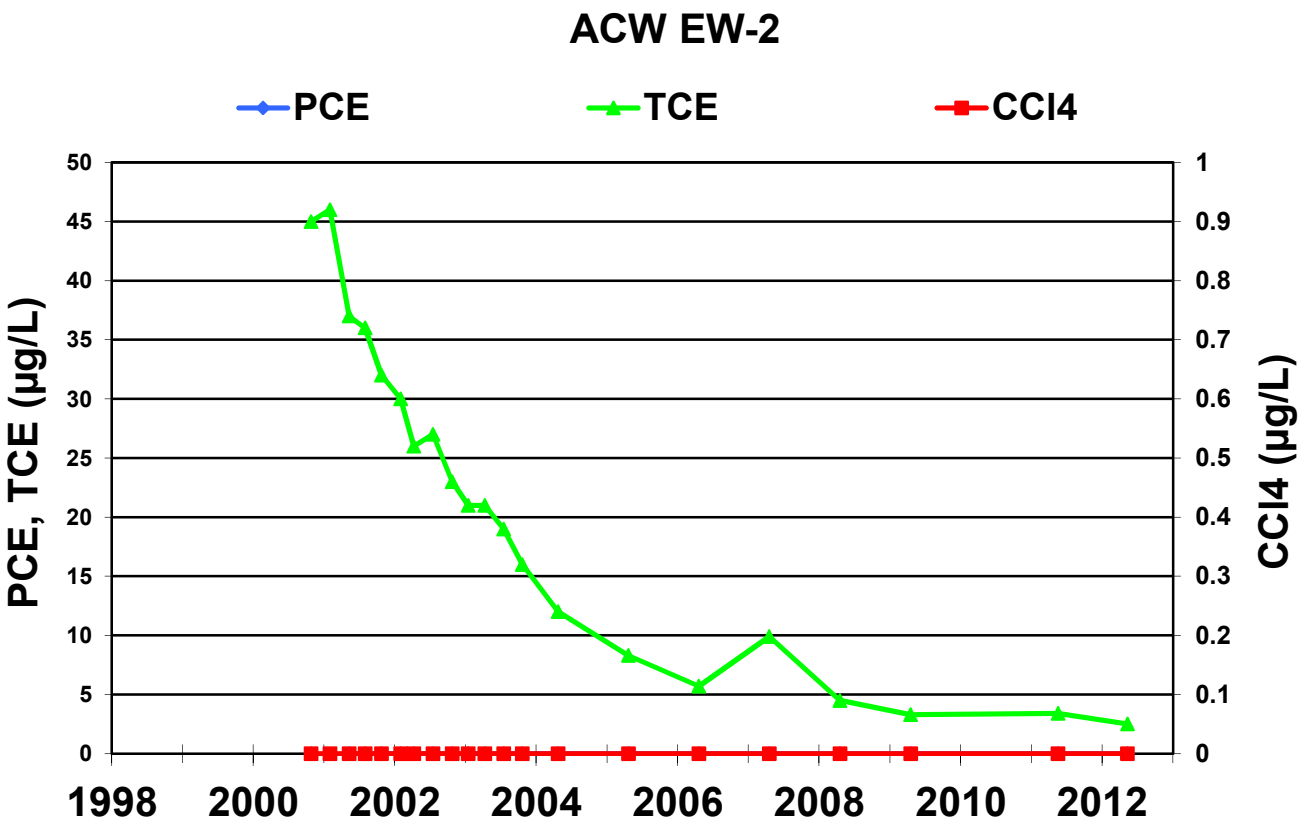

7-PZ-41
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
80
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

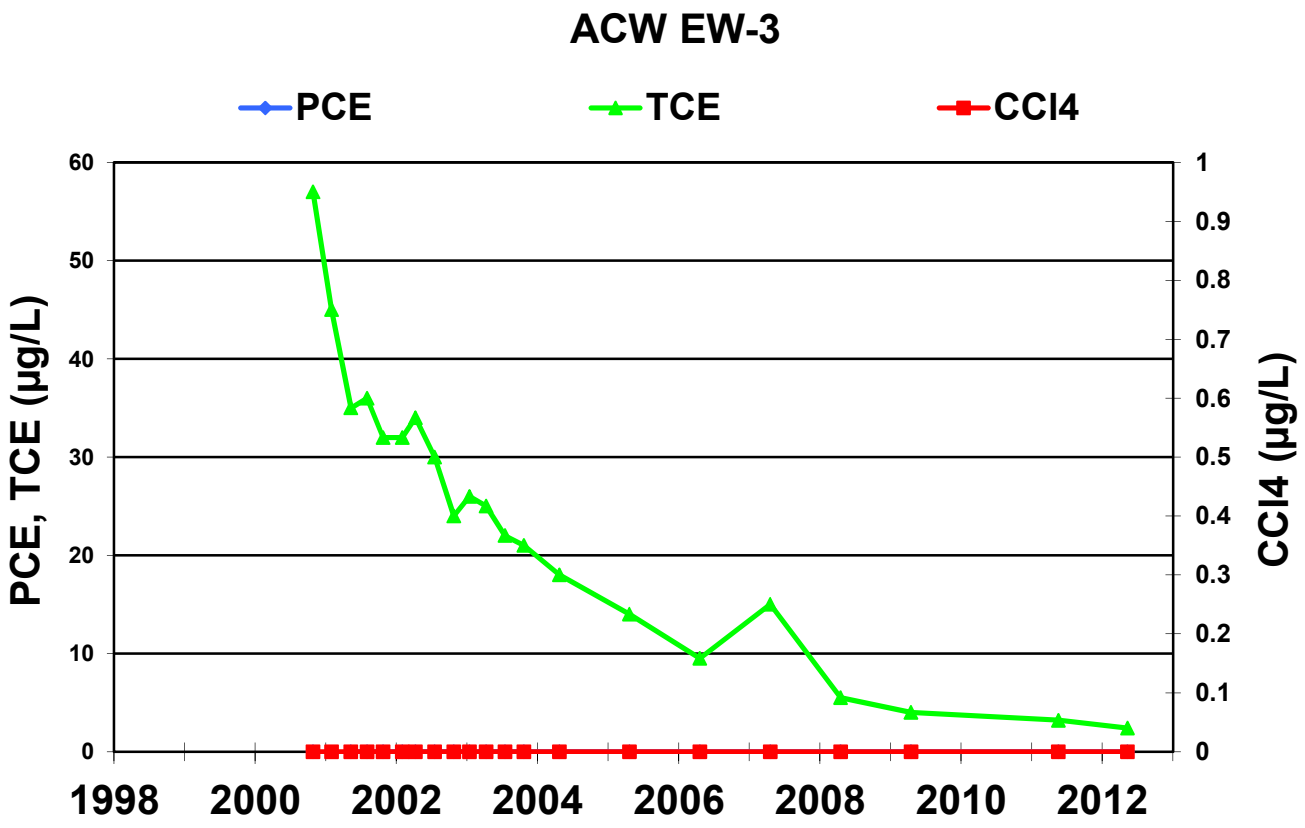

ACW AT-1
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

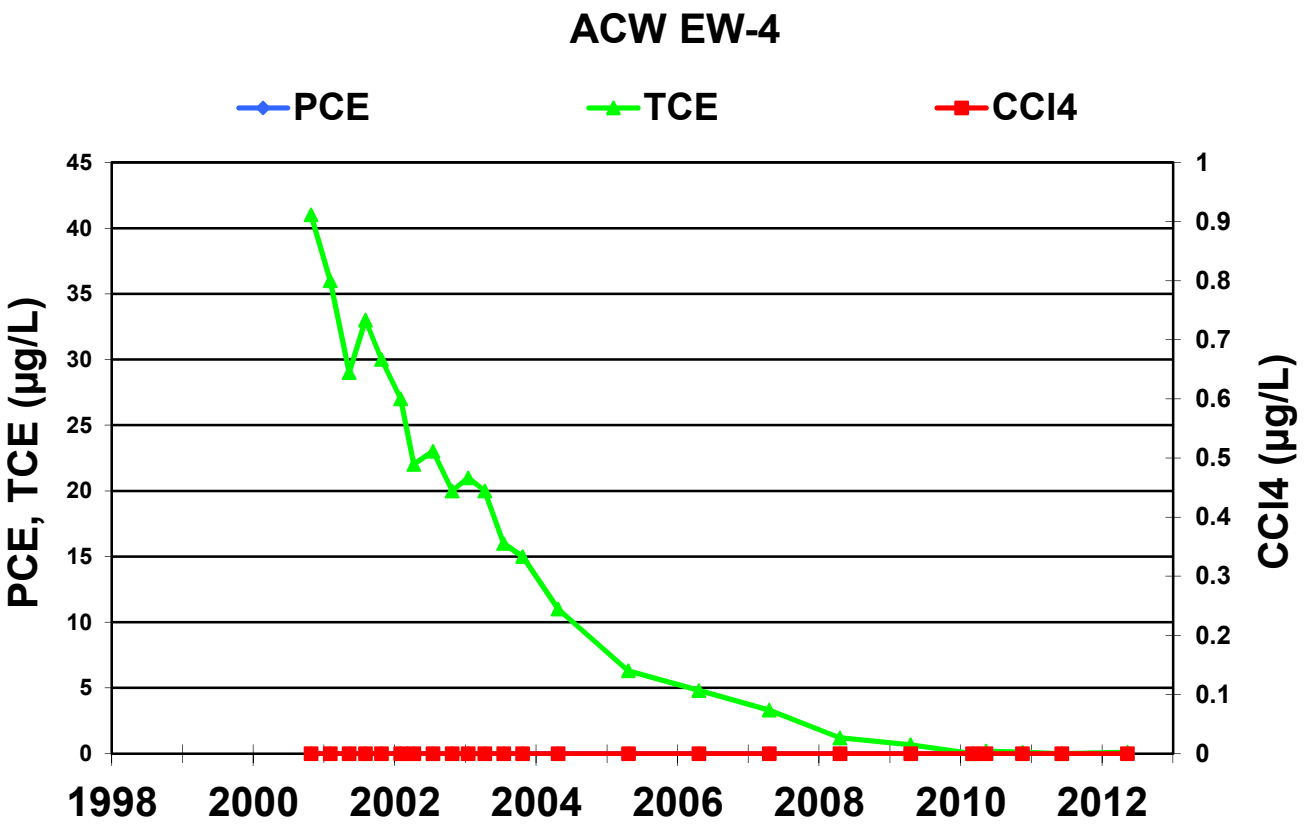

ACW AT-2
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

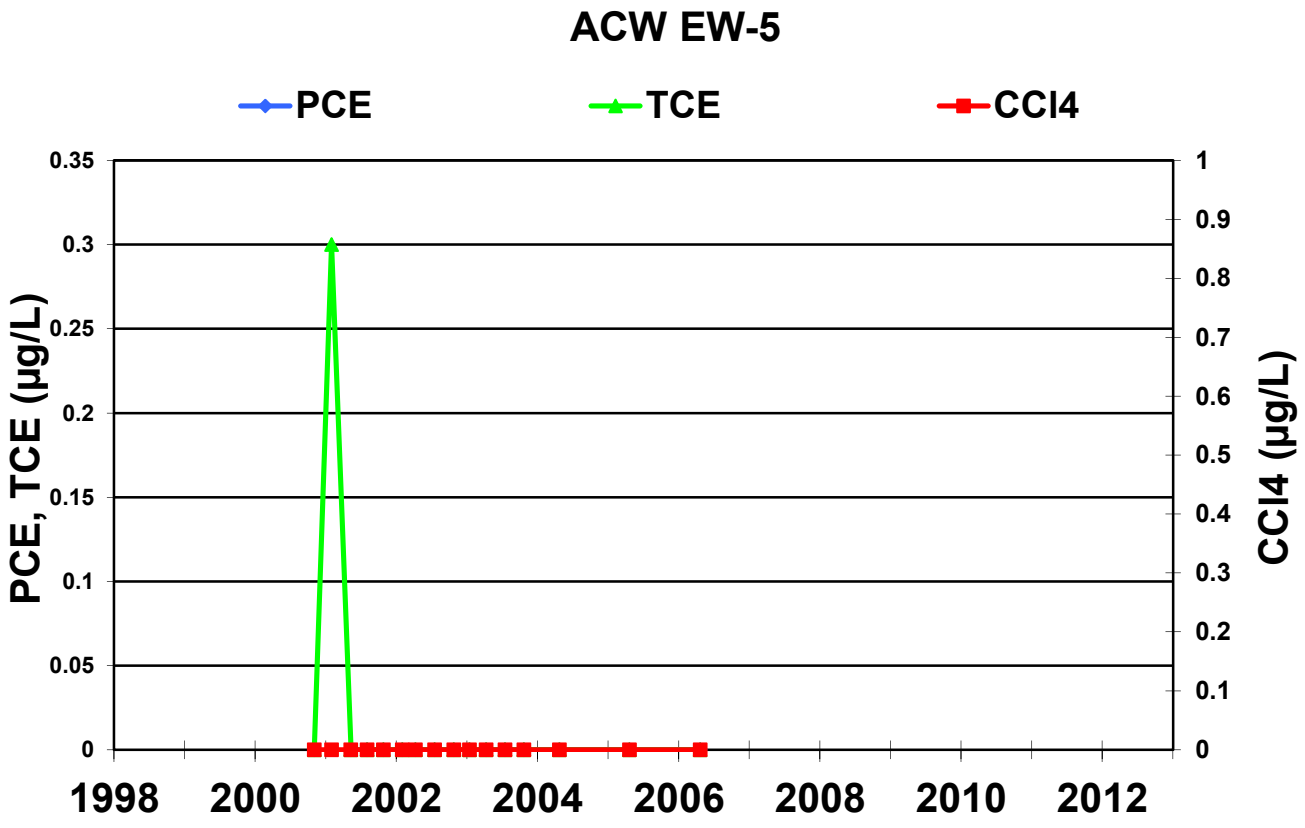

ACW AT-3
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

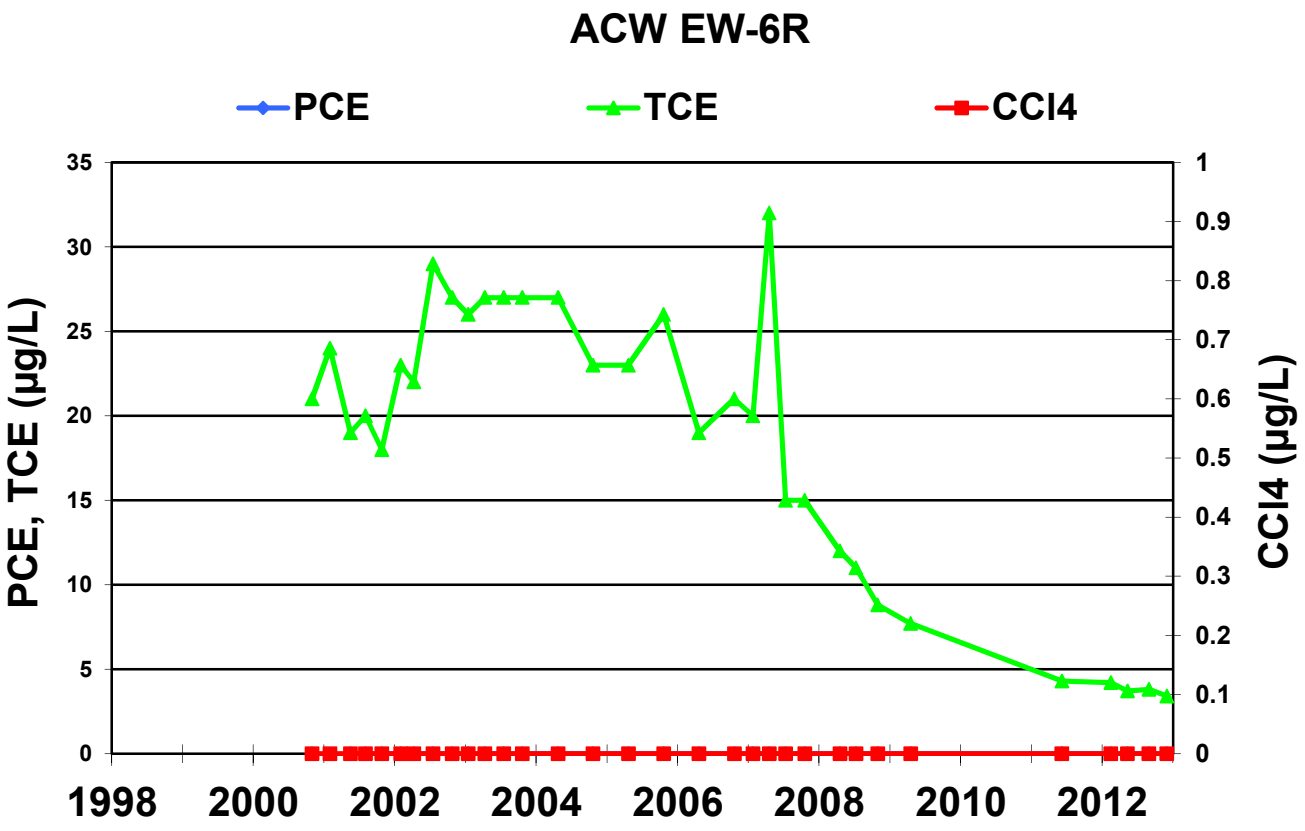

ACW EW-1
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
35
30
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

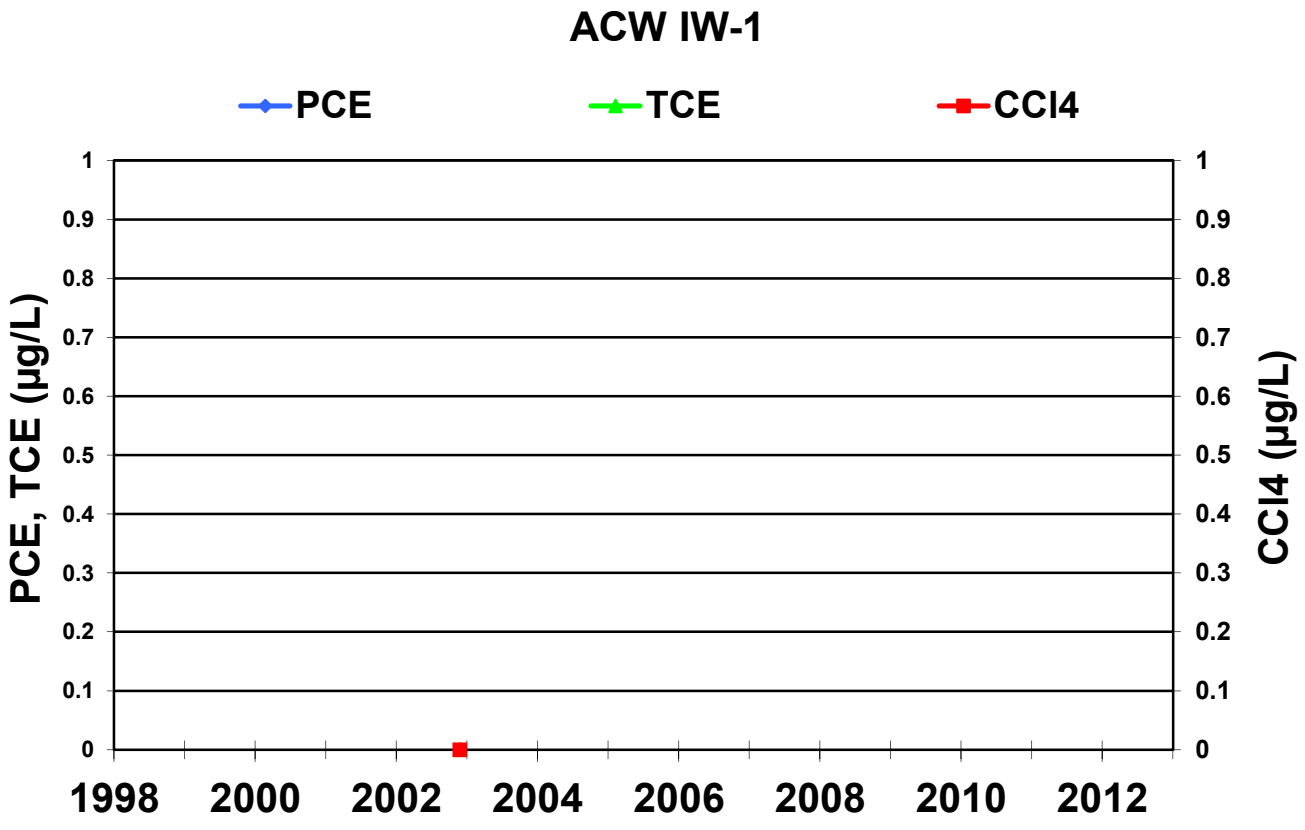

ACW EW-2
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
50
45
40
35
30
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

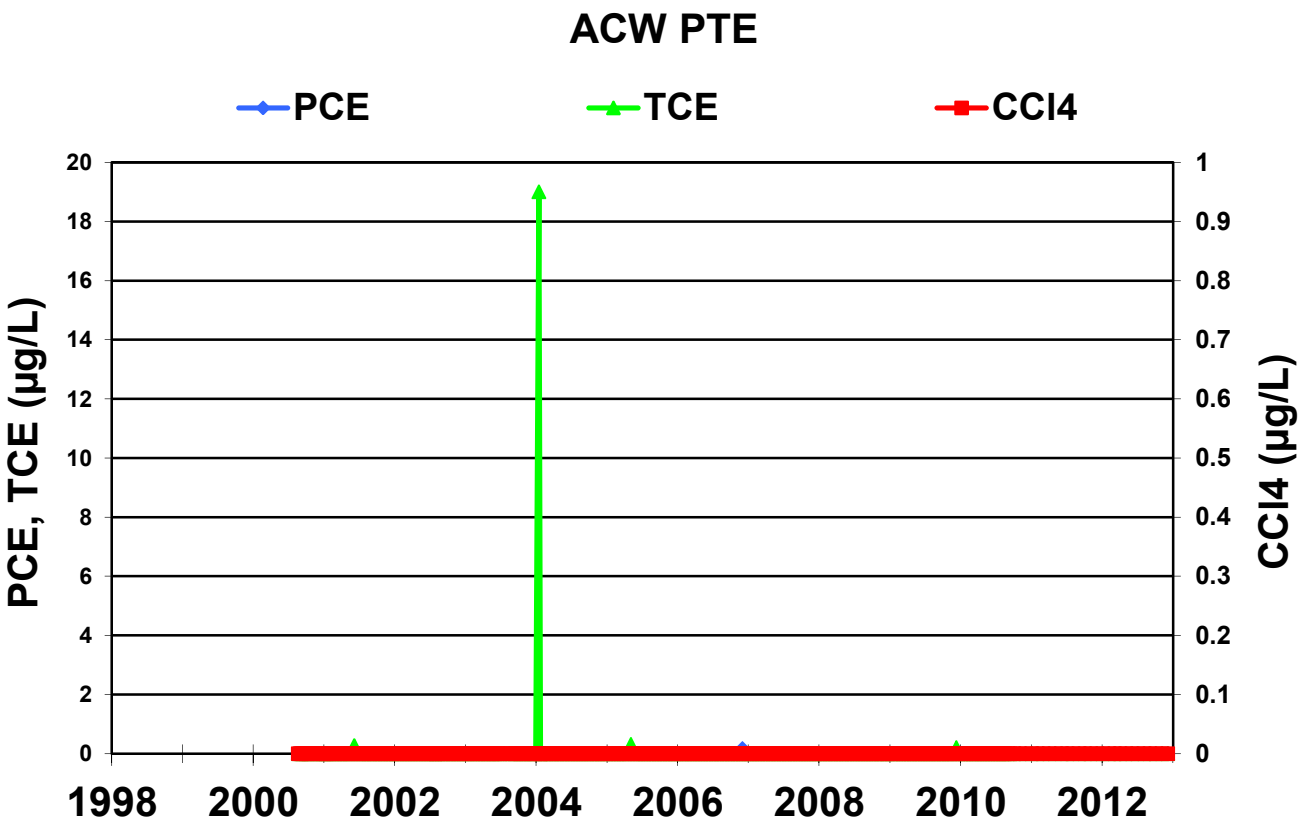

ACW EW-3
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

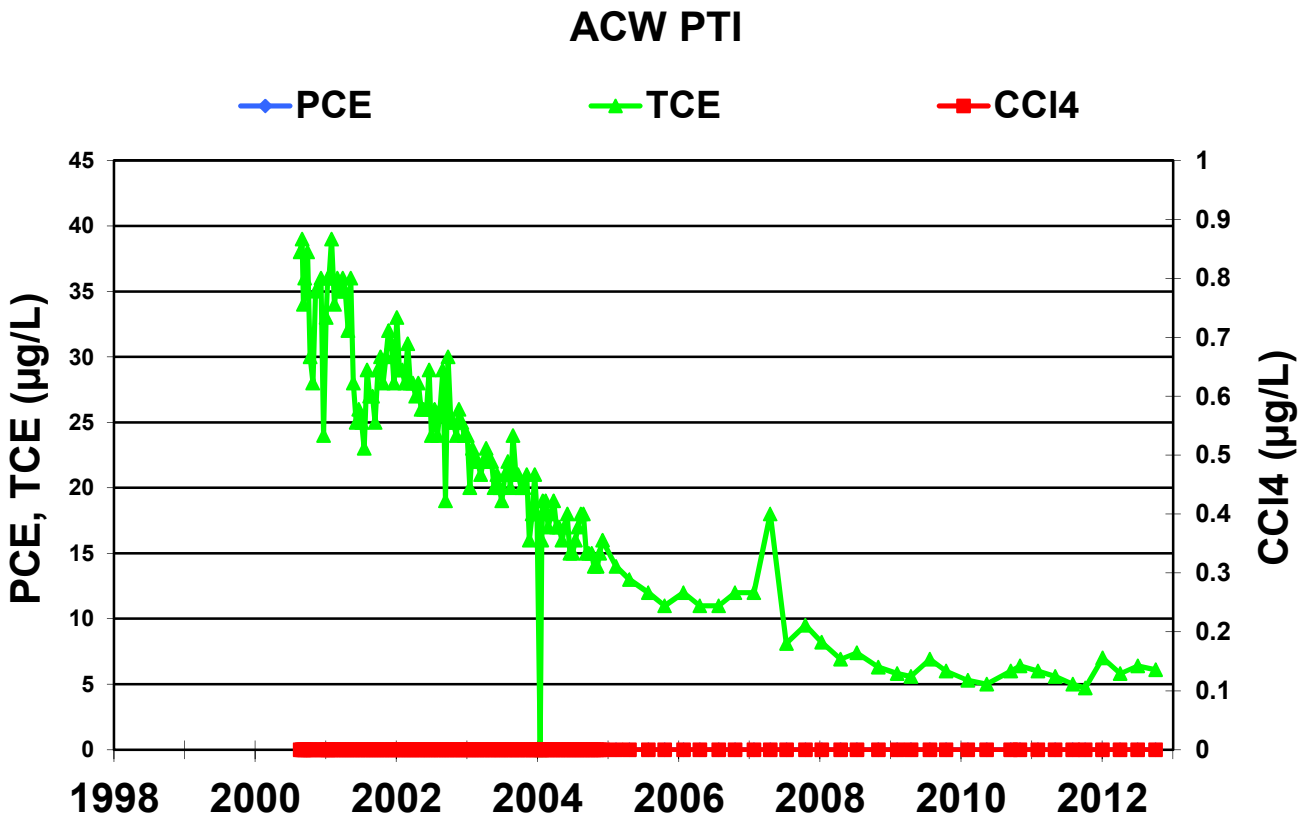

ACW EW-4
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
45
40
35
30
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

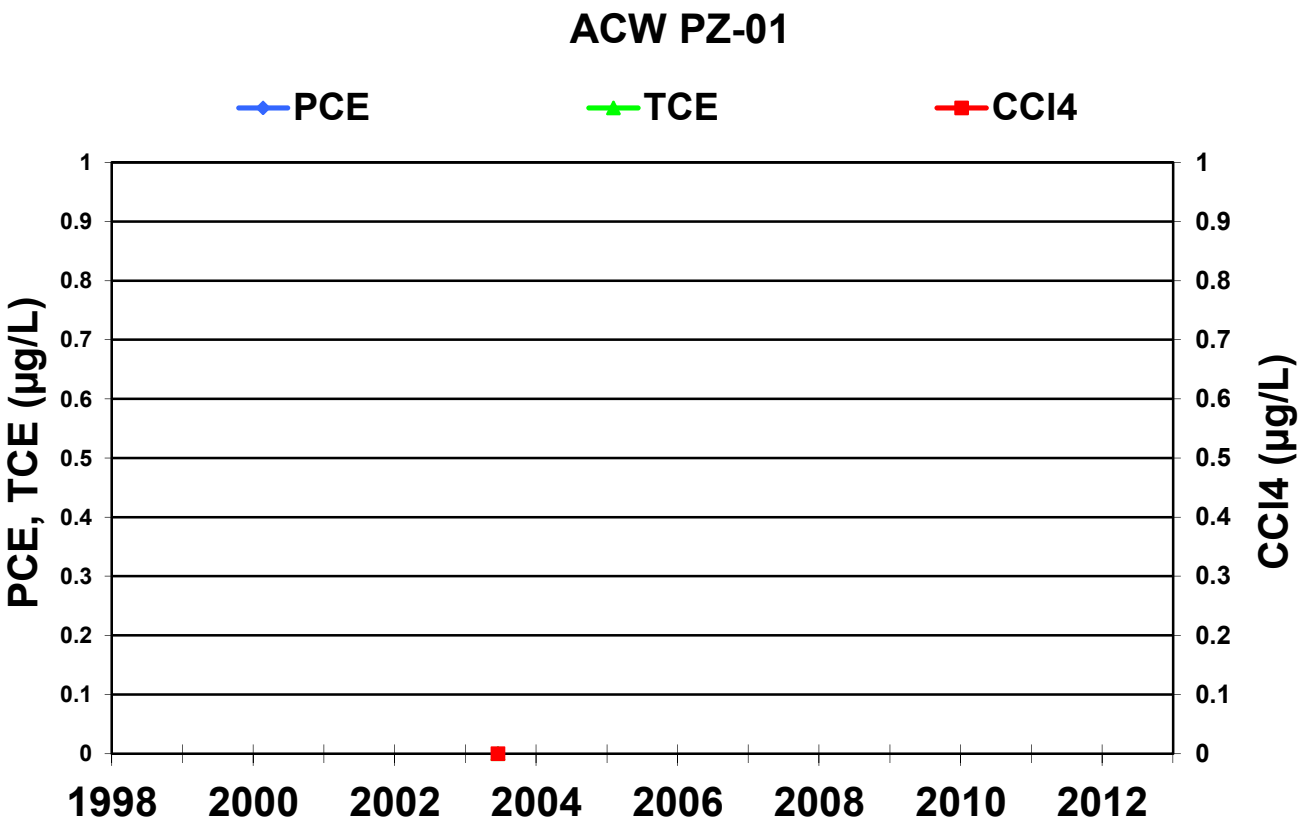

ACW EW-5
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

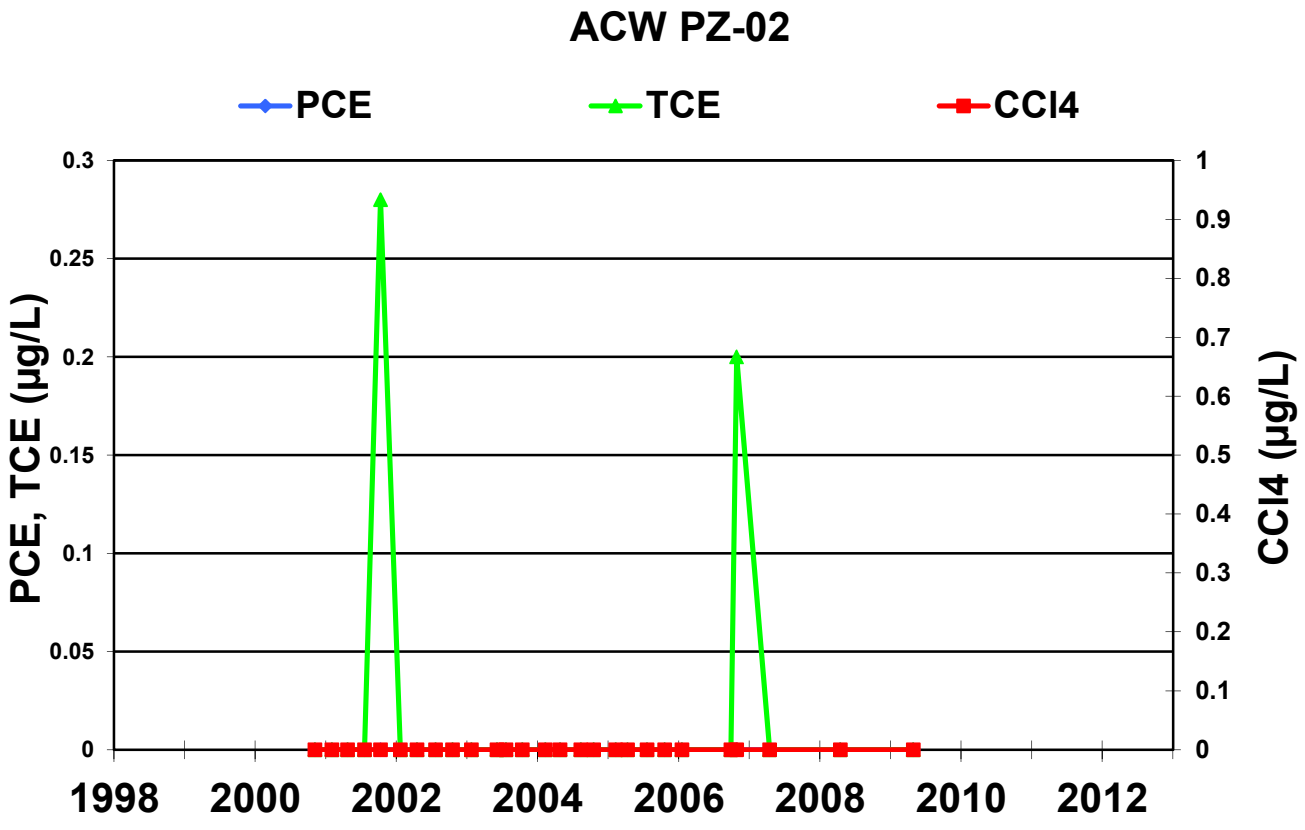

ACW EW-6R
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
35
30
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

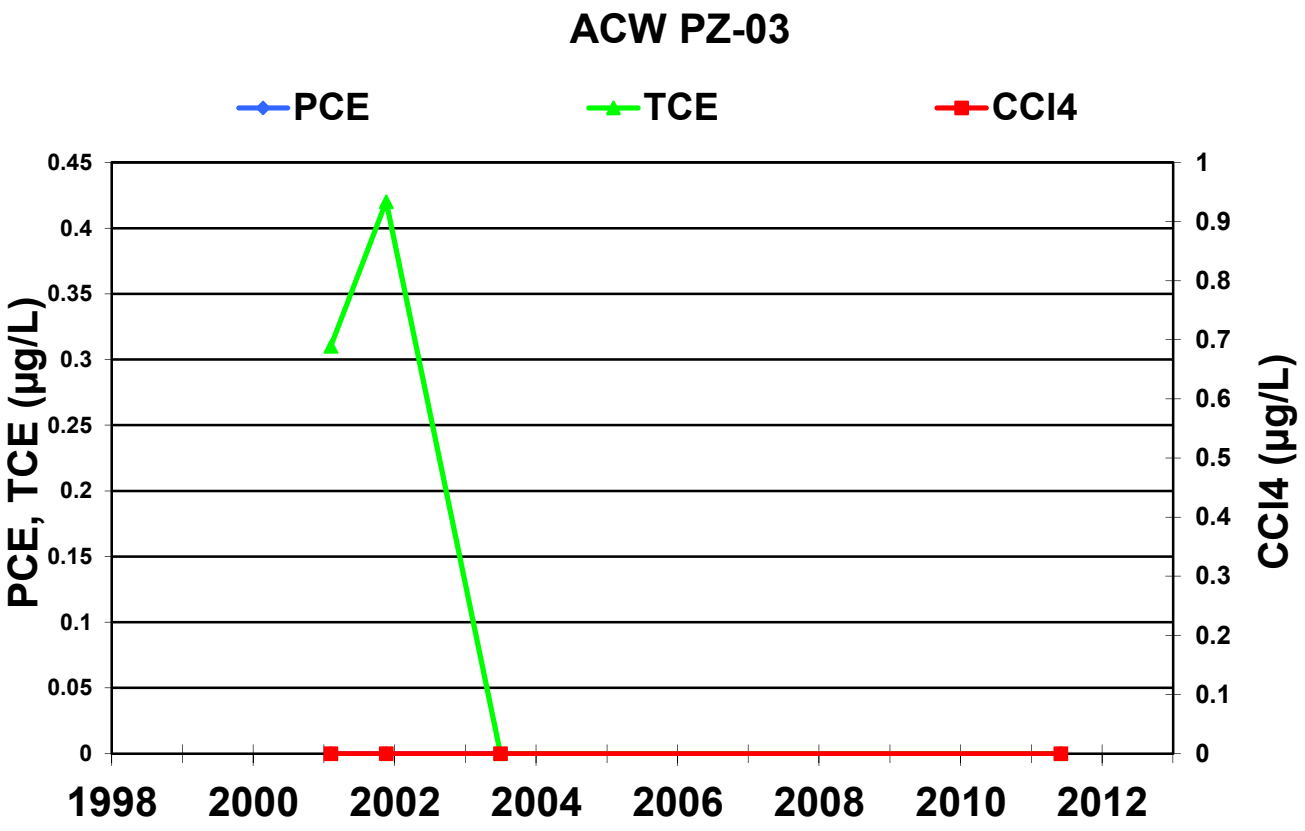

ACW IW-1
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

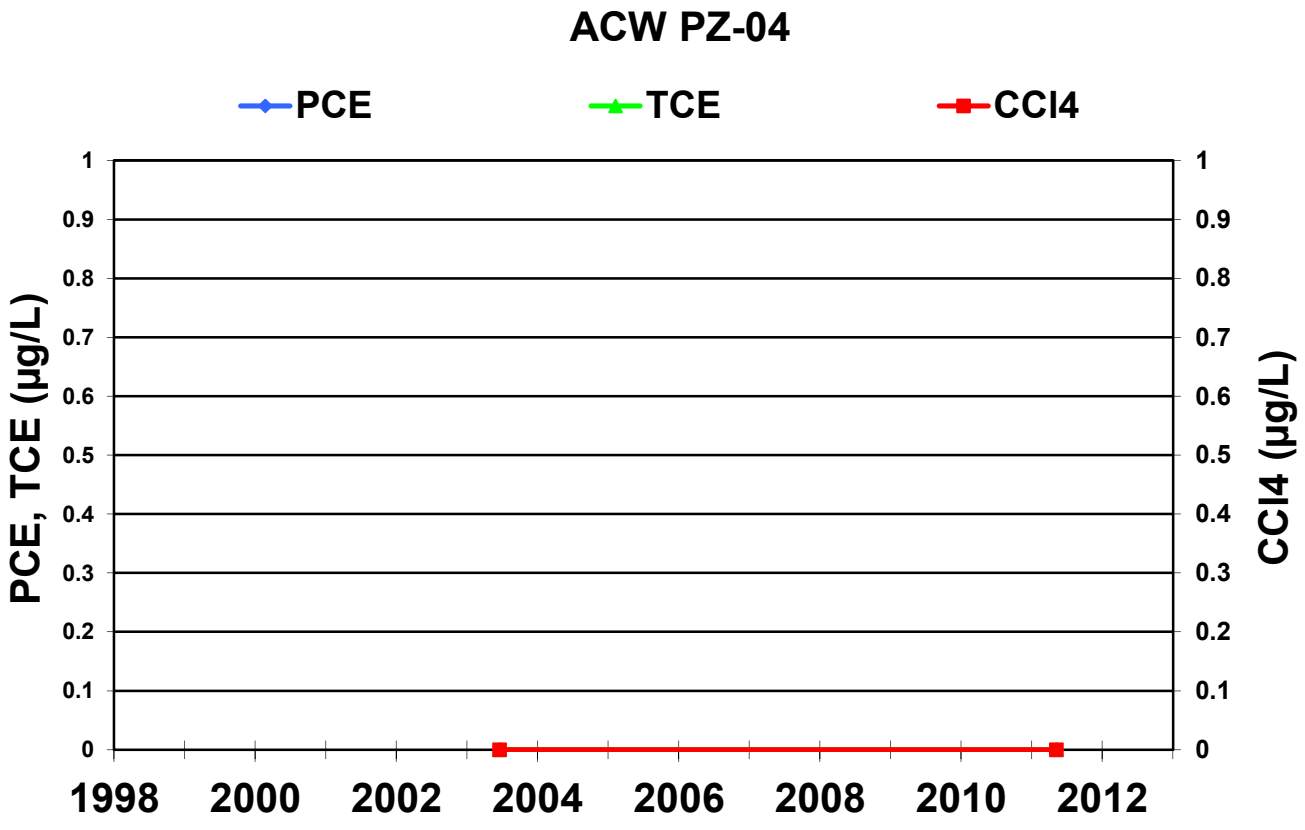

ACW PTE
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
20
18
16
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

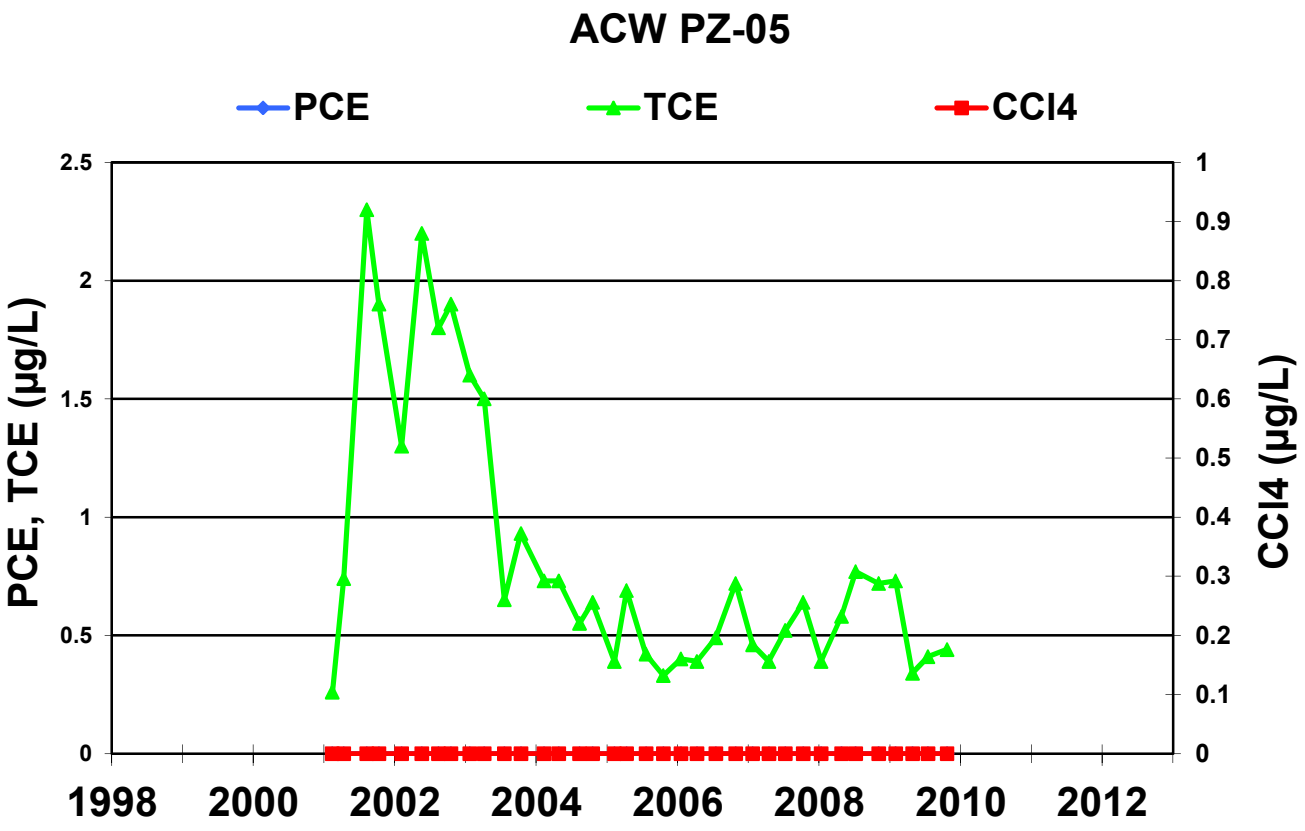

ACW PTI
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
45
40
35
30
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

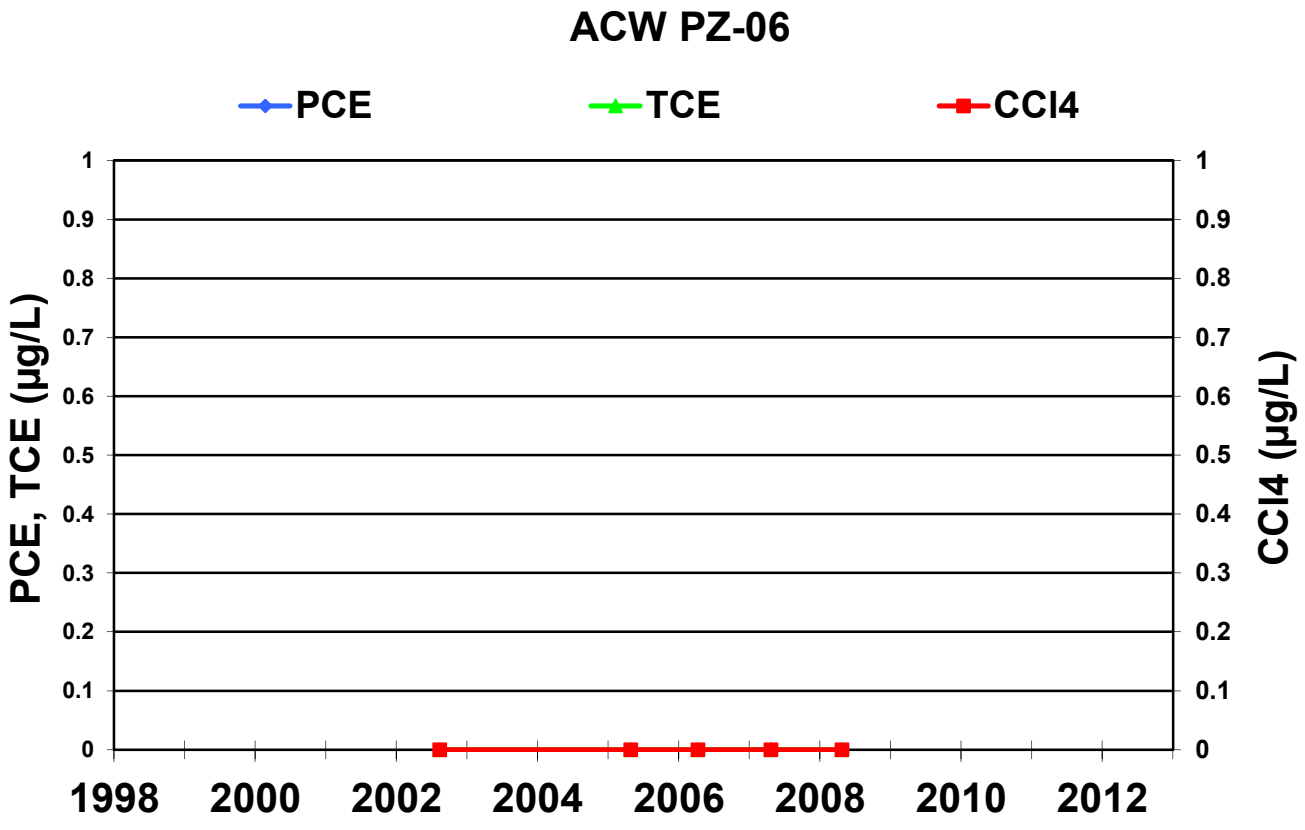

ACW PZ-01
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

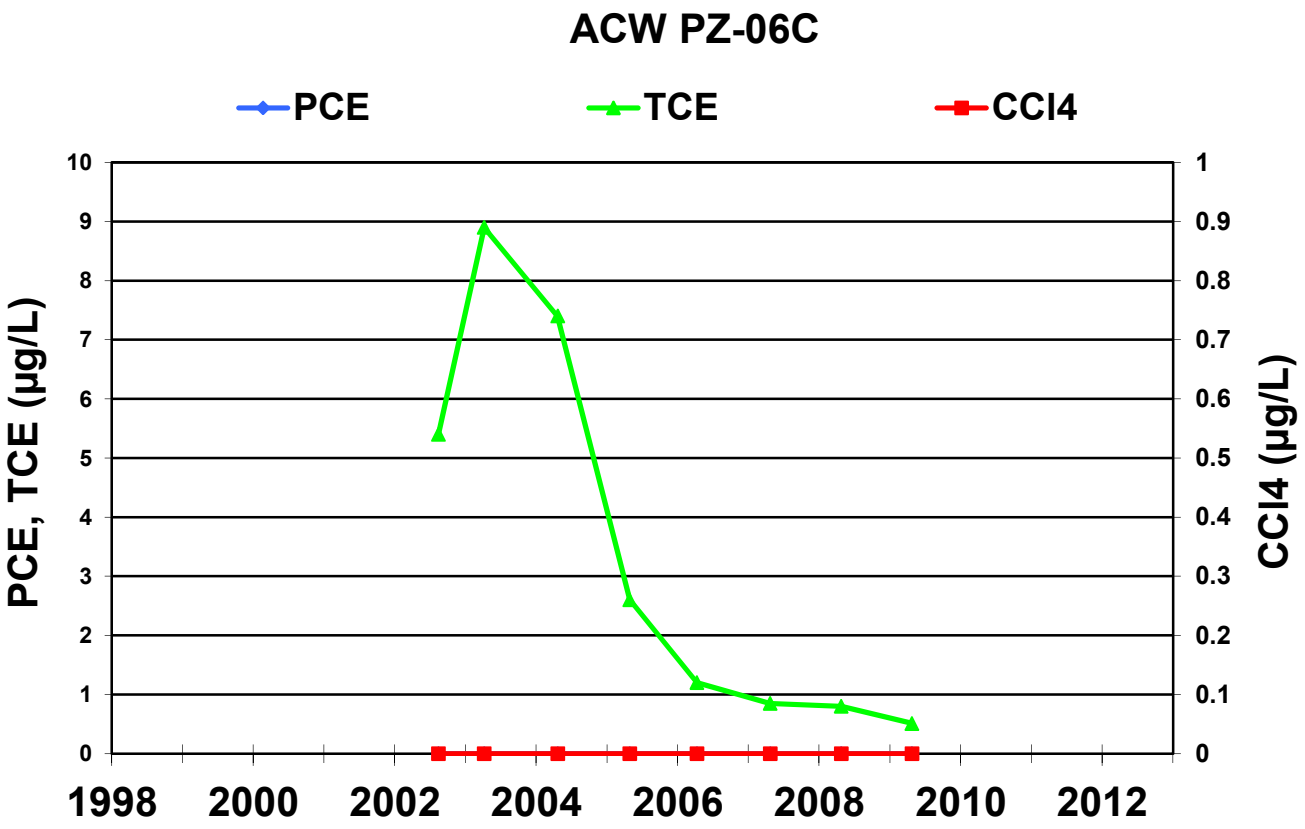

ACW PZ-02
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

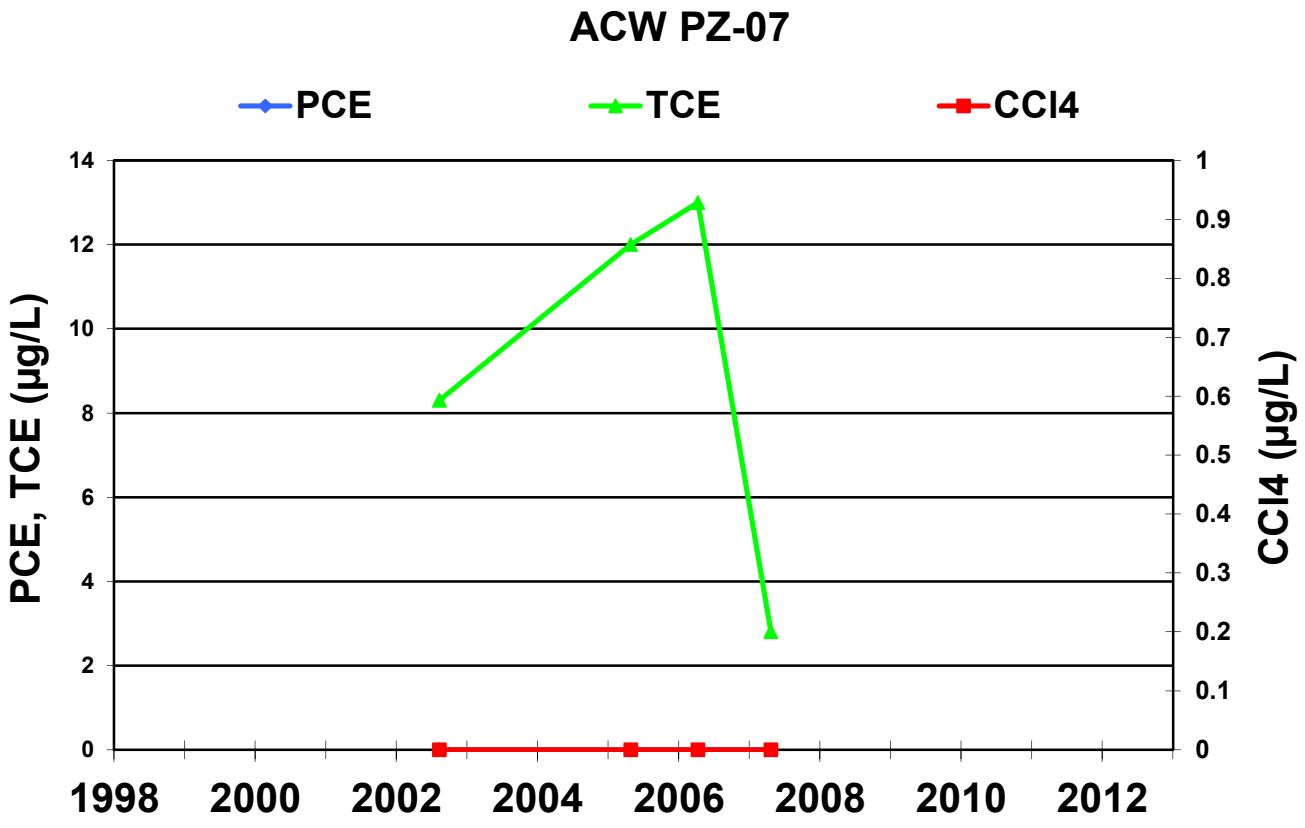

ACW PZ-03
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

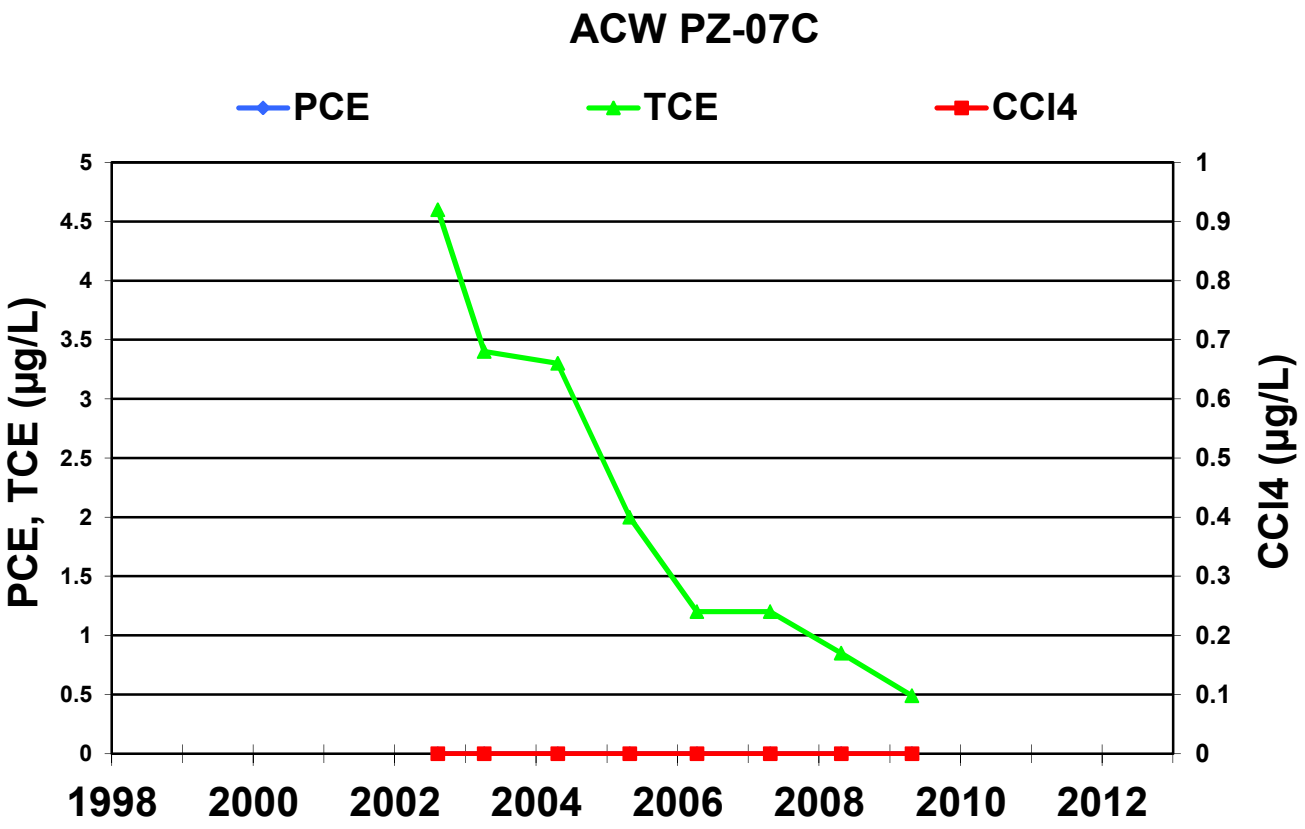

ACW PZ-04
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

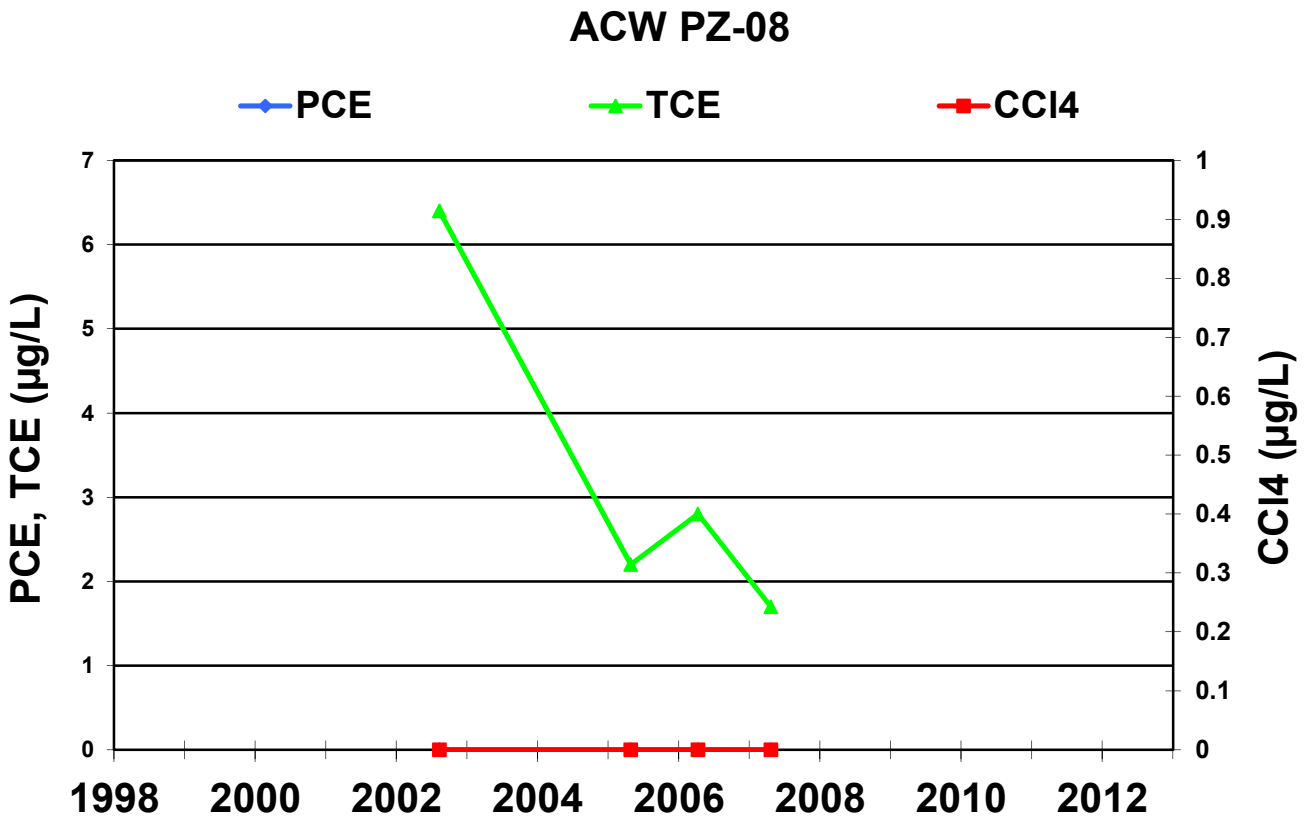

ACW PZ-05
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

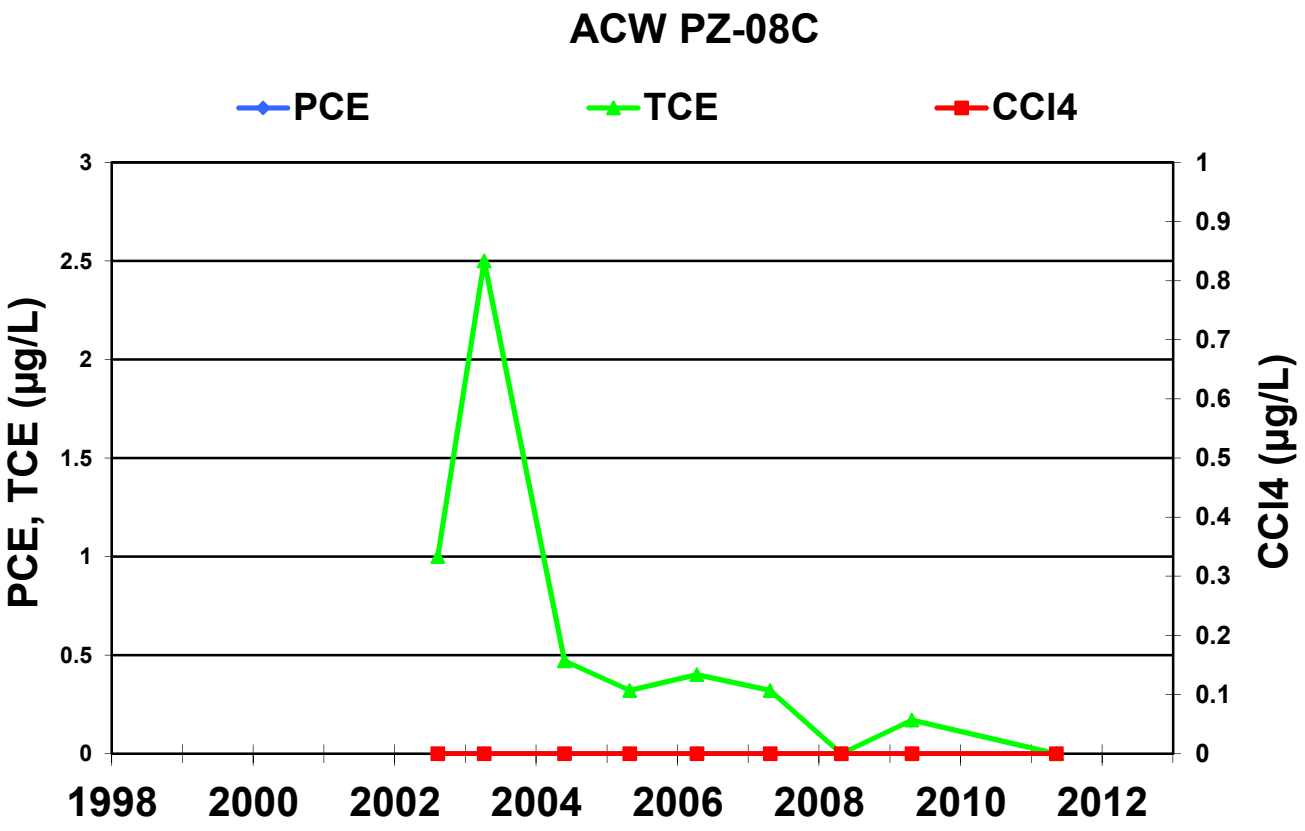

ACW PZ-06
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

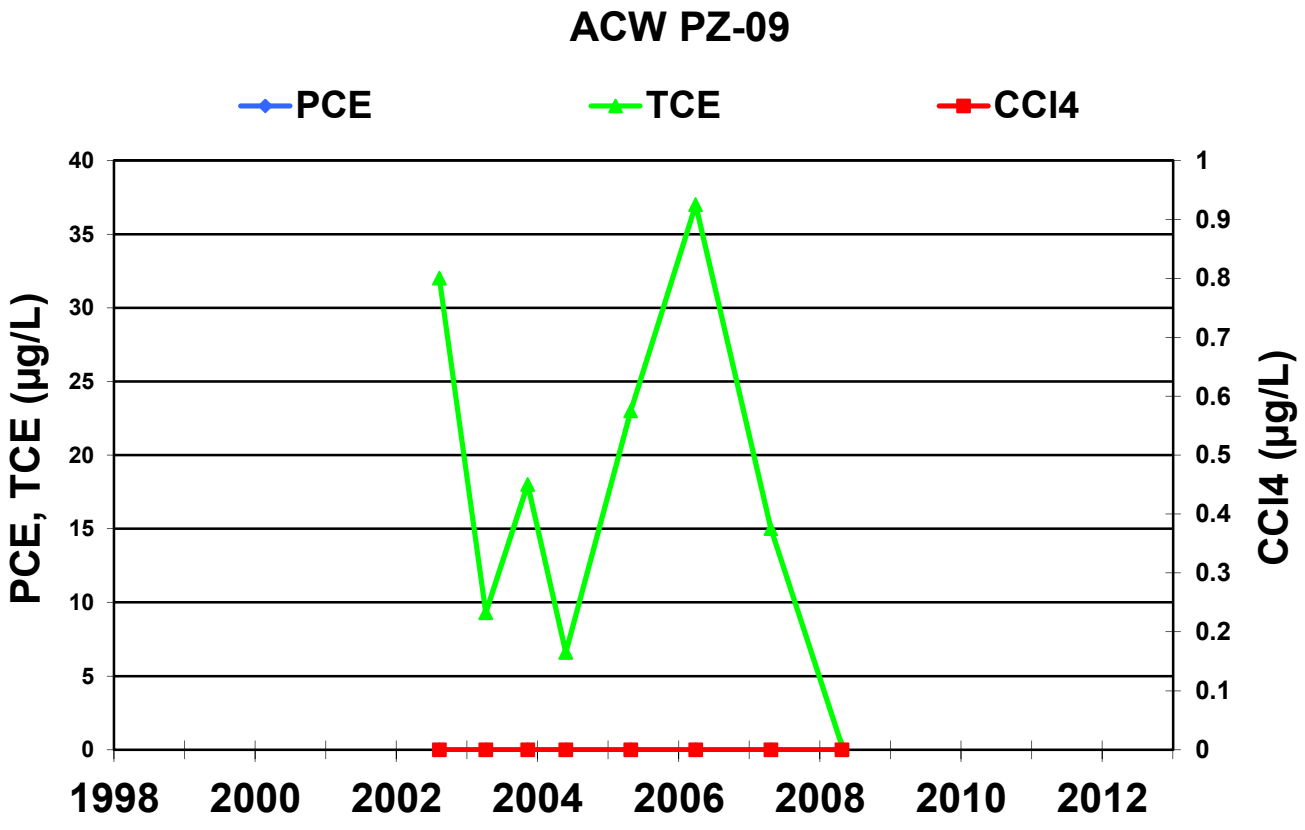

ACW PZ-06C
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
10
9
8
7
6
5
4
3
2
1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

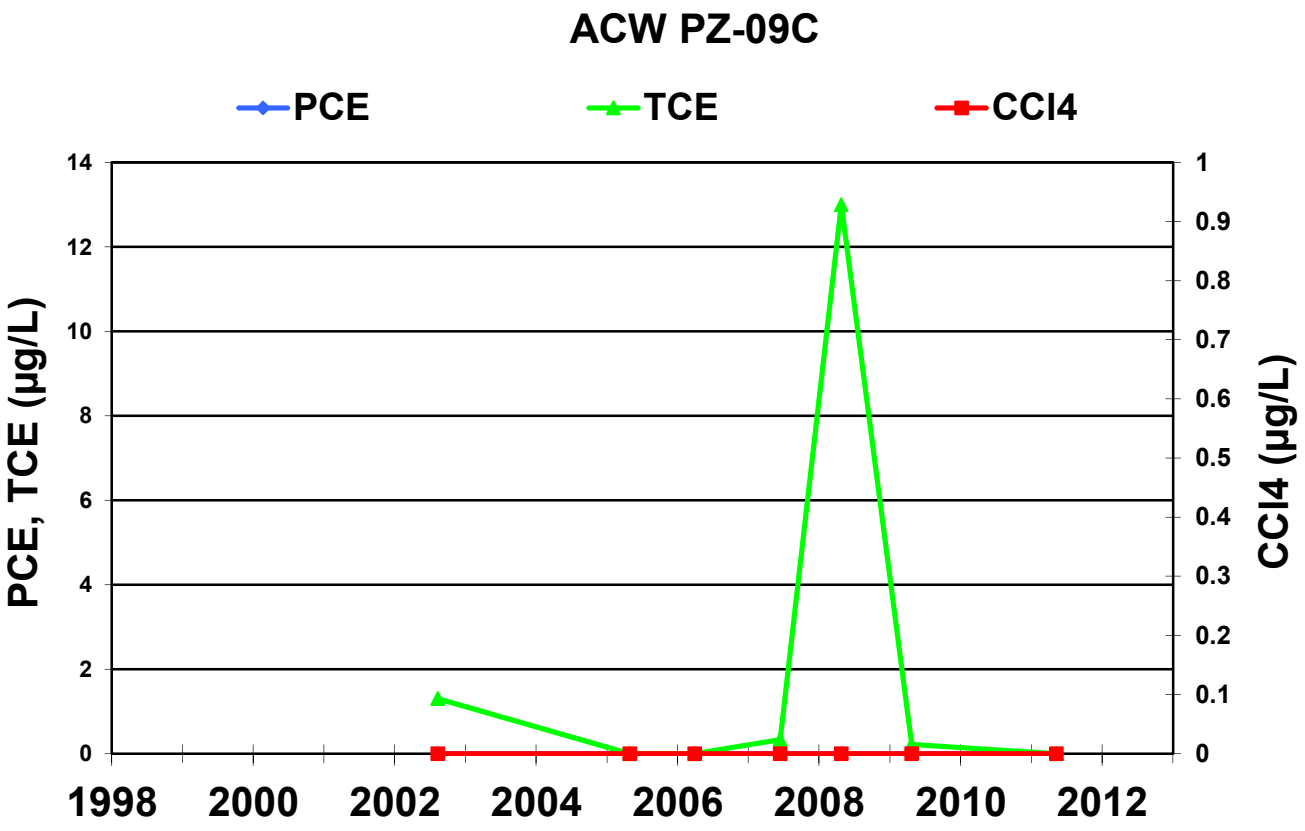

ACW PZ-07
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

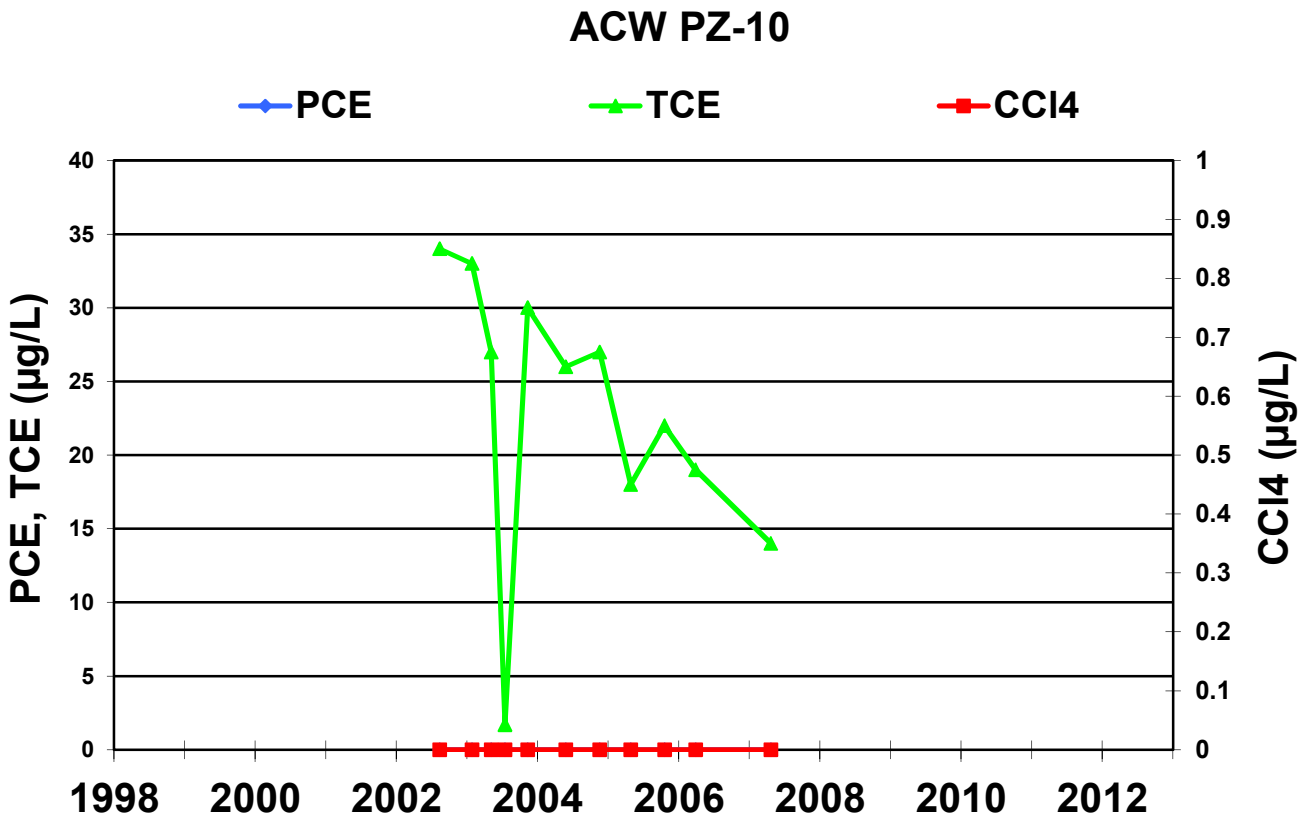

ACW PZ-07C
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

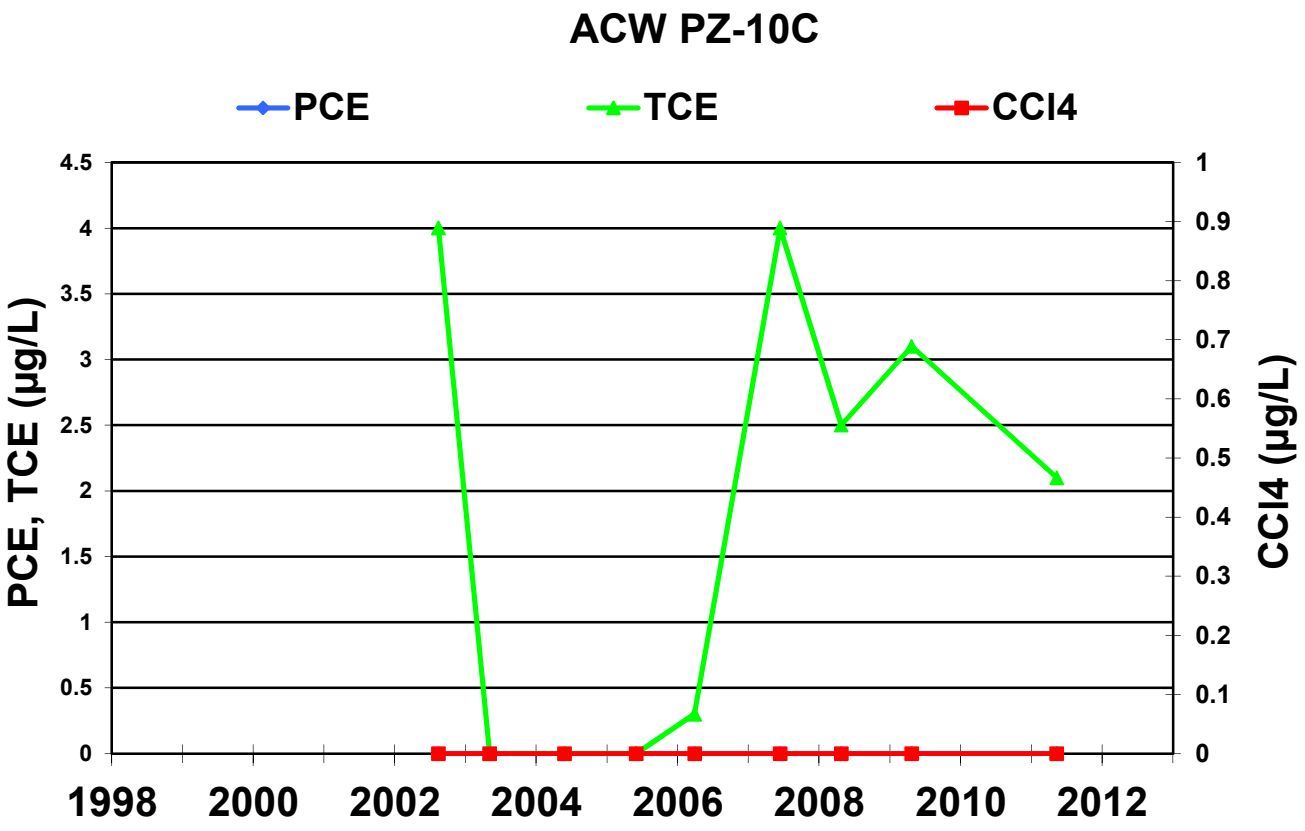

ACW PZ-08
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
7
6
5
4
3
2
1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

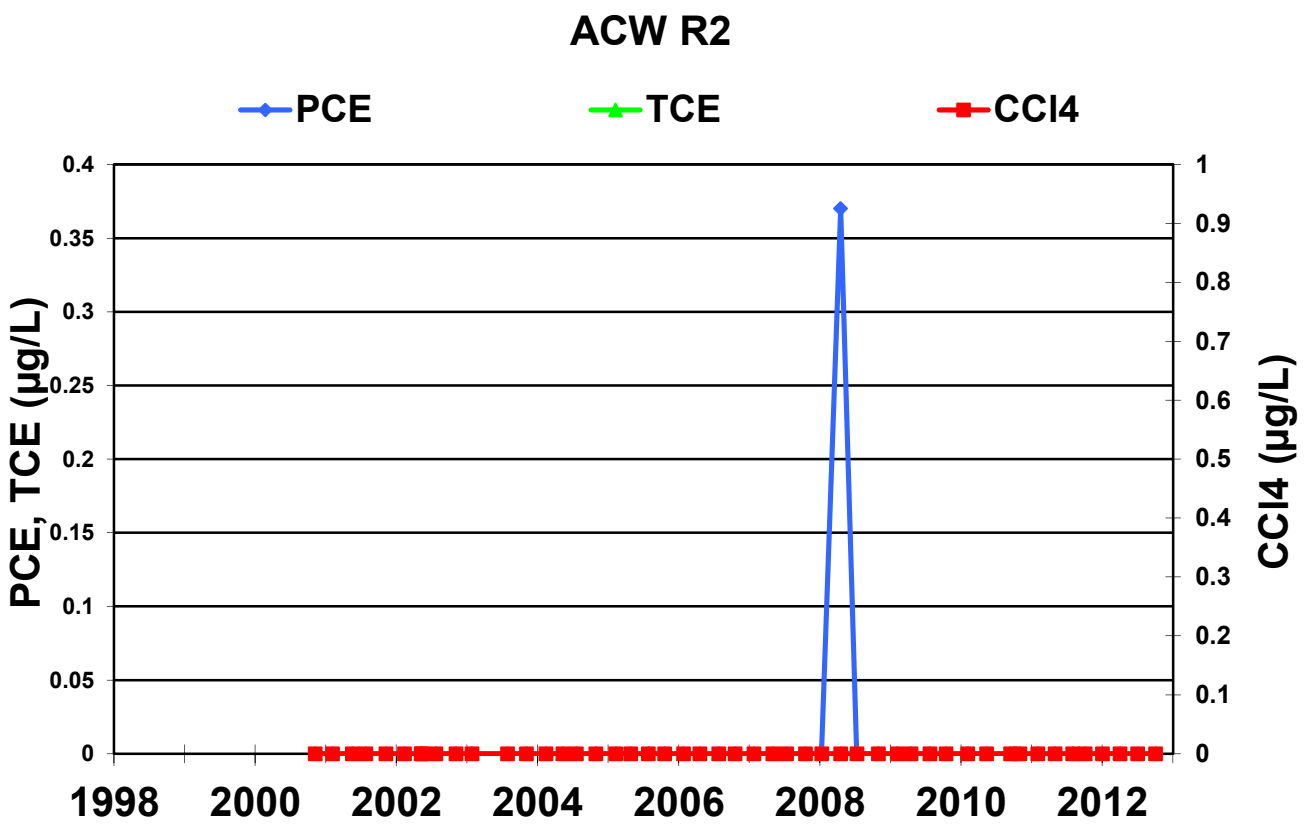

ACW PZ-08C
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

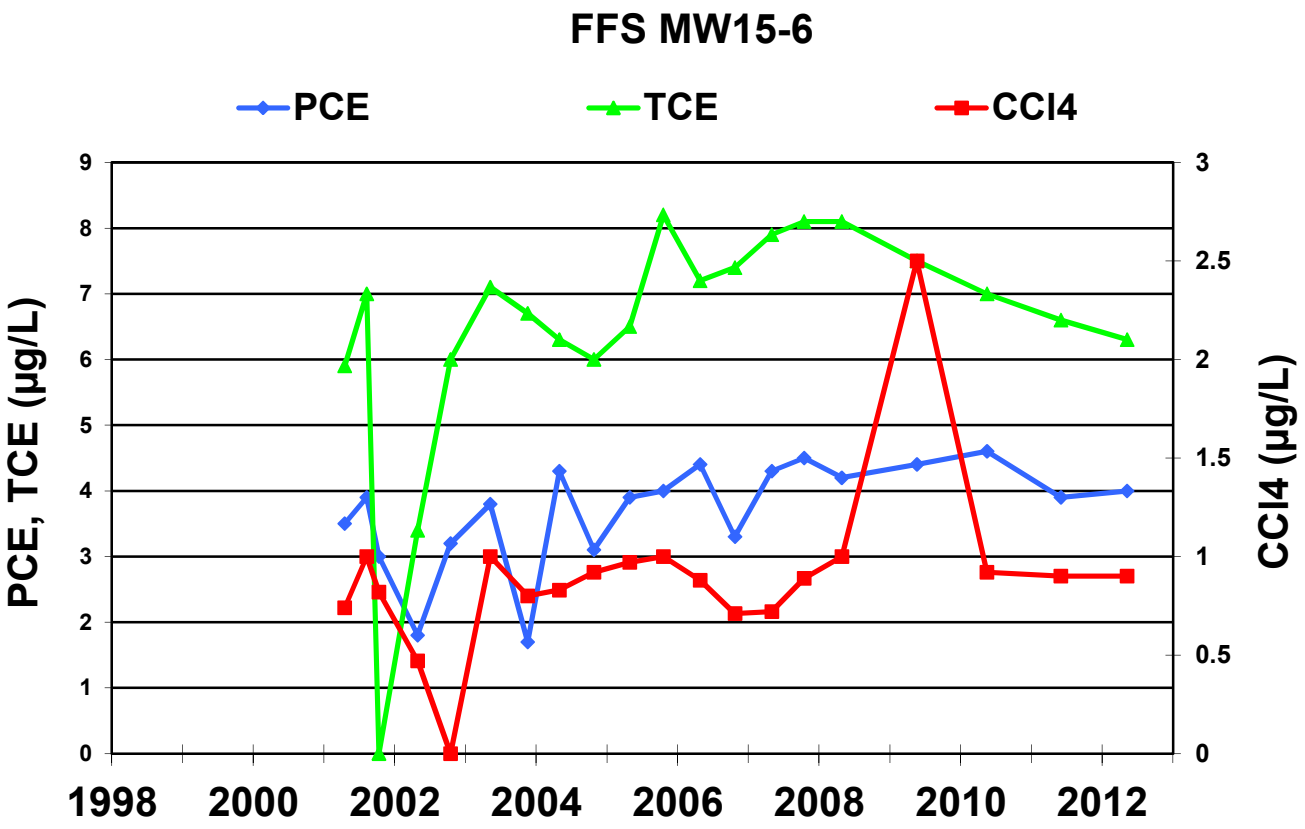

ACW PZ-09
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
40
35
30
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

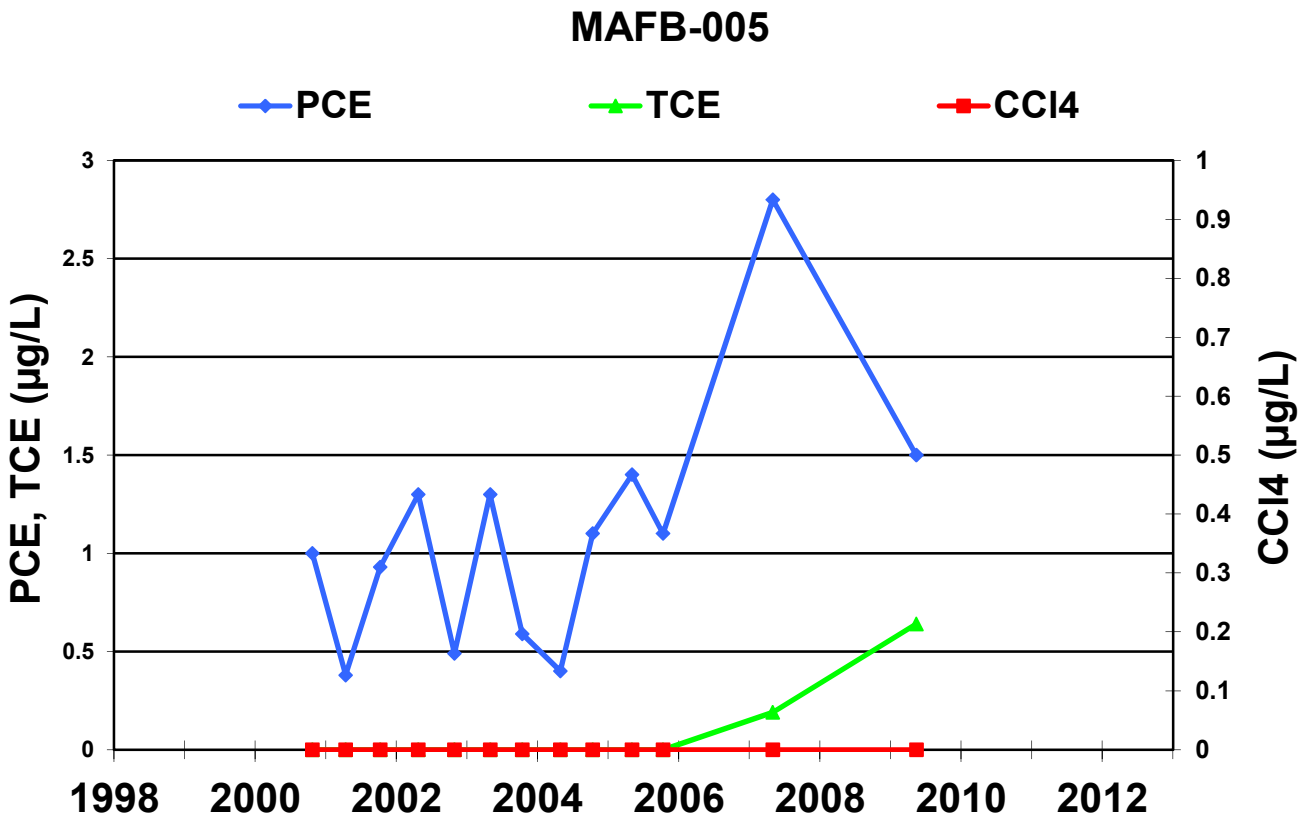

ACW PZ-09C
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

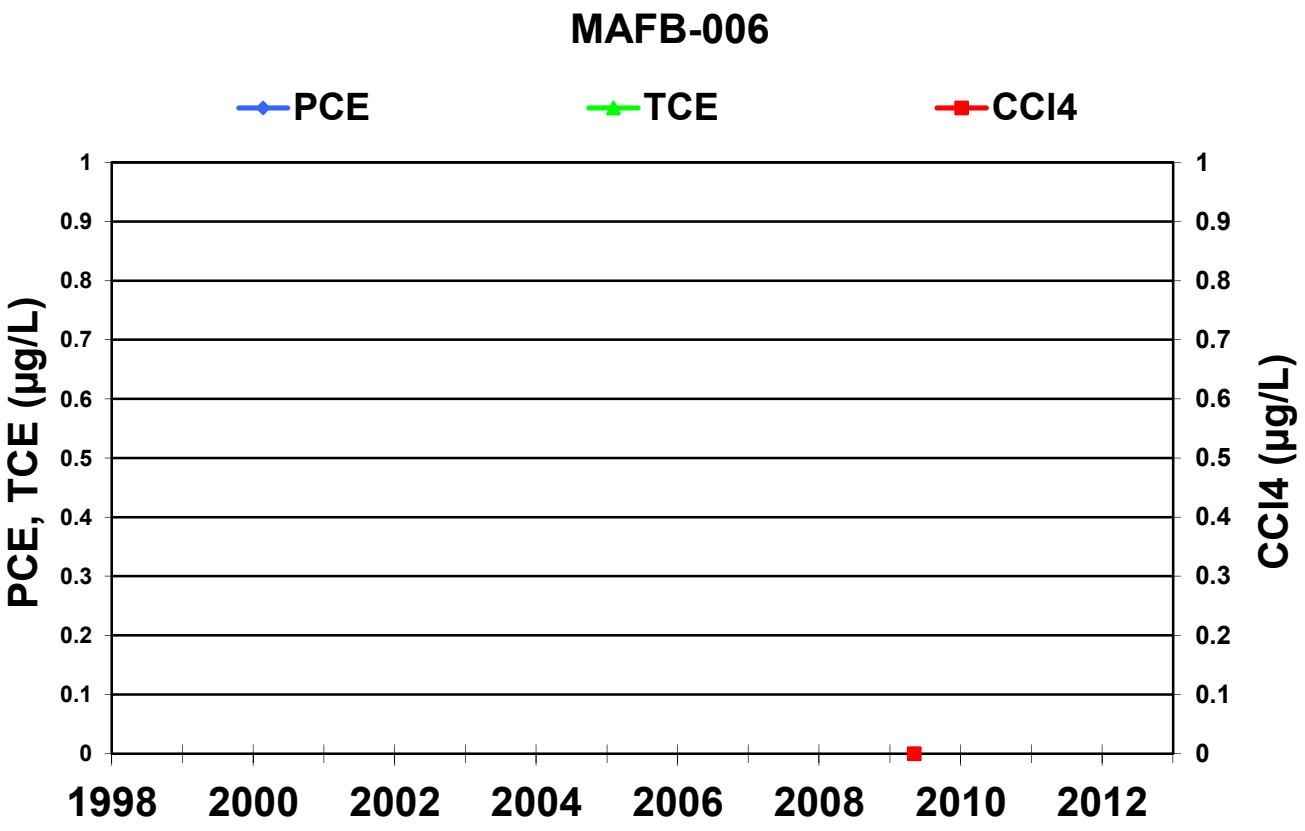

ACW PZ-10
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
40
35
30
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

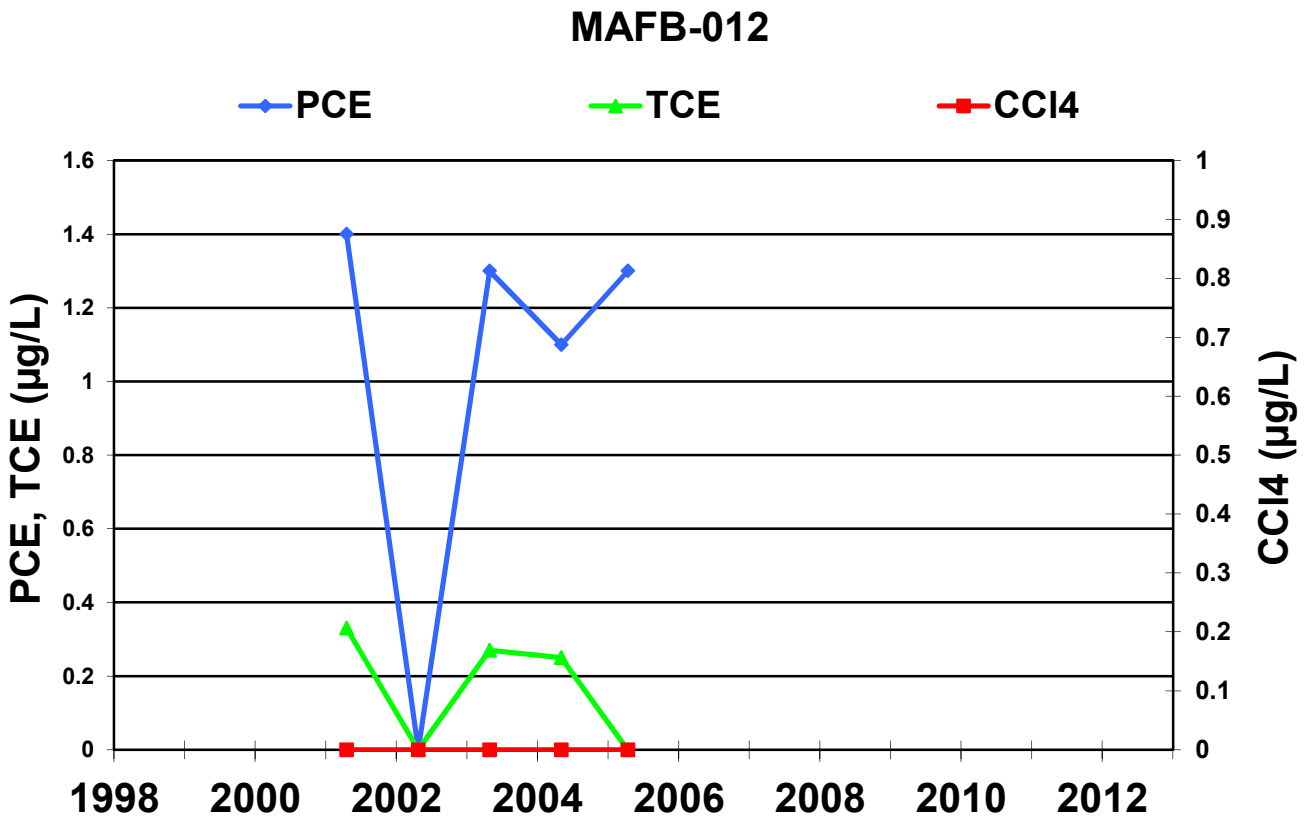

ACW PZ-10C
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

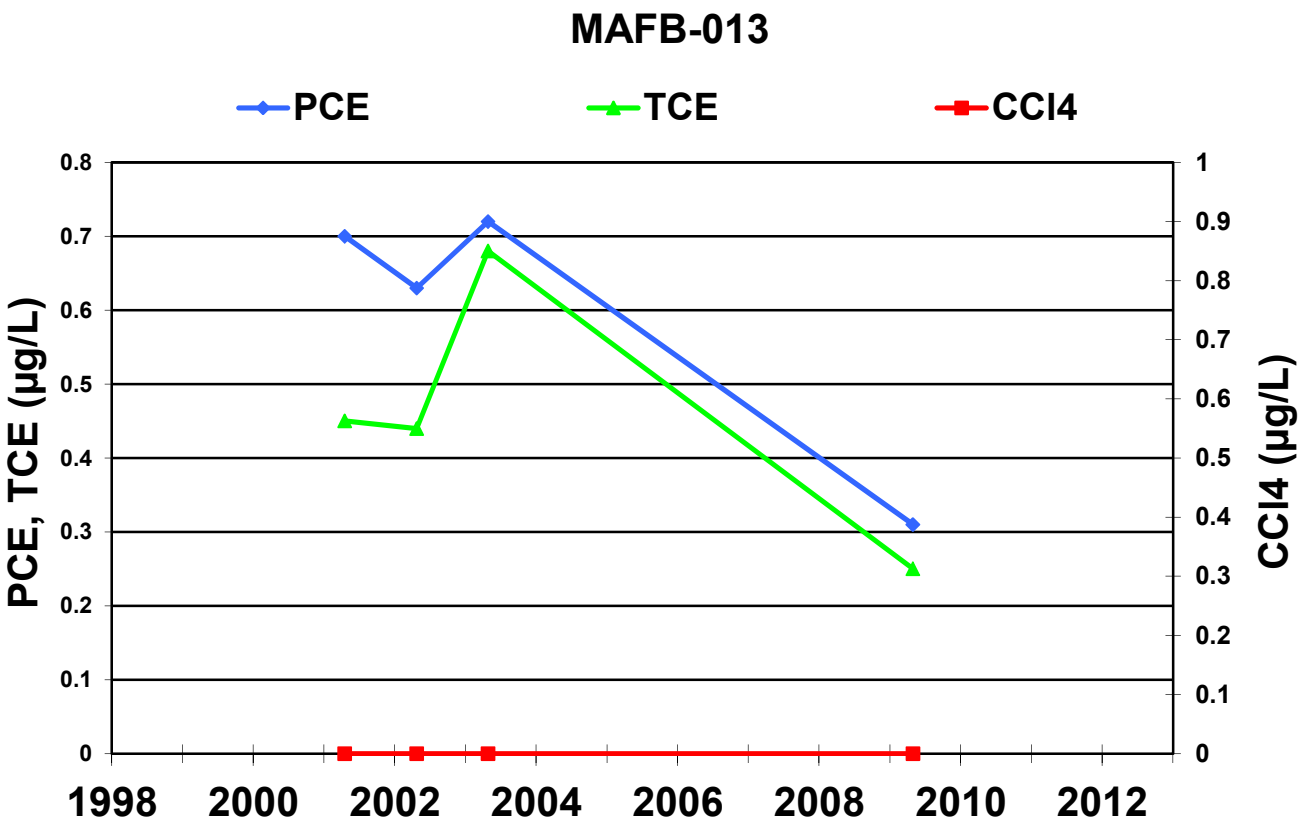

ACW R2
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

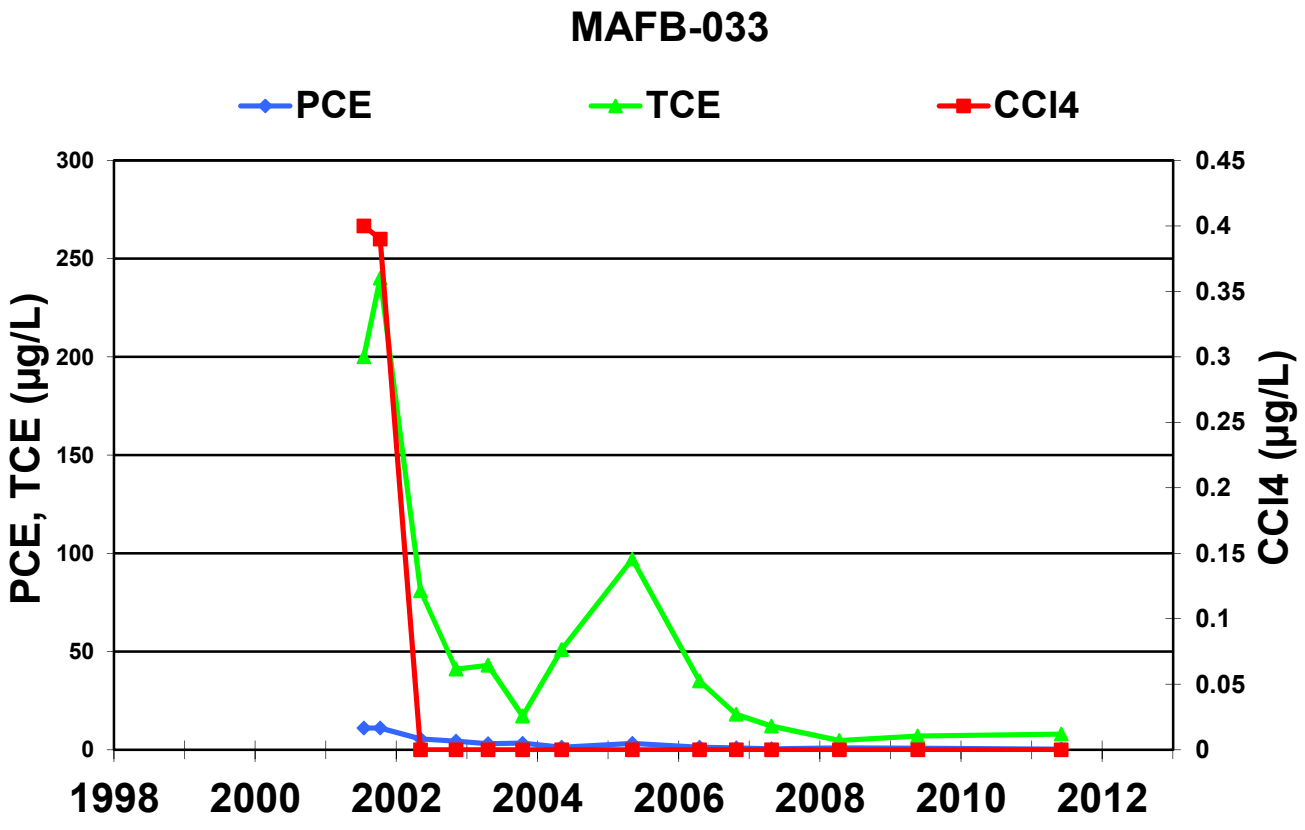

FFS MW15-6
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
1
2
3
4
5
6
7
8
9
0
0.5
1
1.5
2
2.5
3
1998
2000
2002
2004
2006
2008
2010
2012

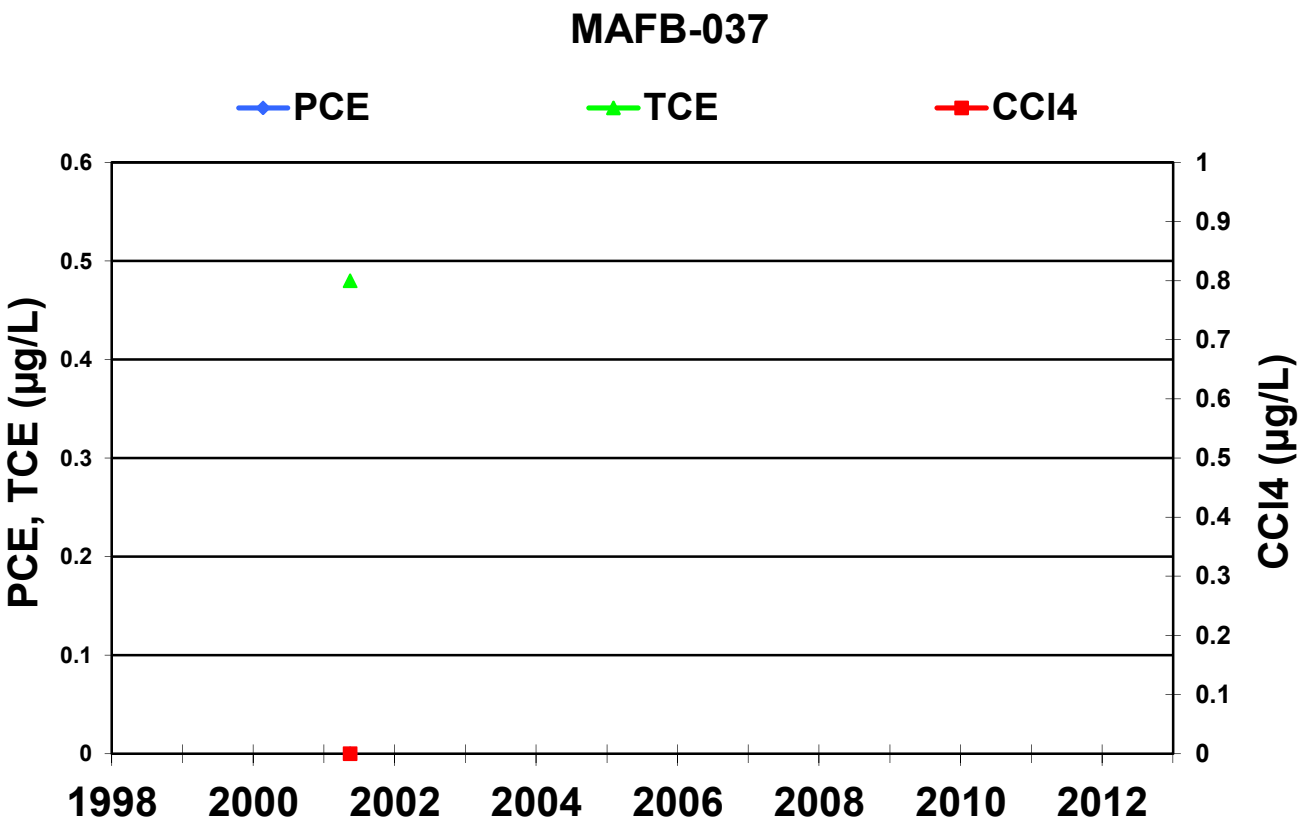

MAFB-005
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
0.5
1
1.5
2
2.5
3
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1998
2000
2002
2004
2006
2008
2010
2012

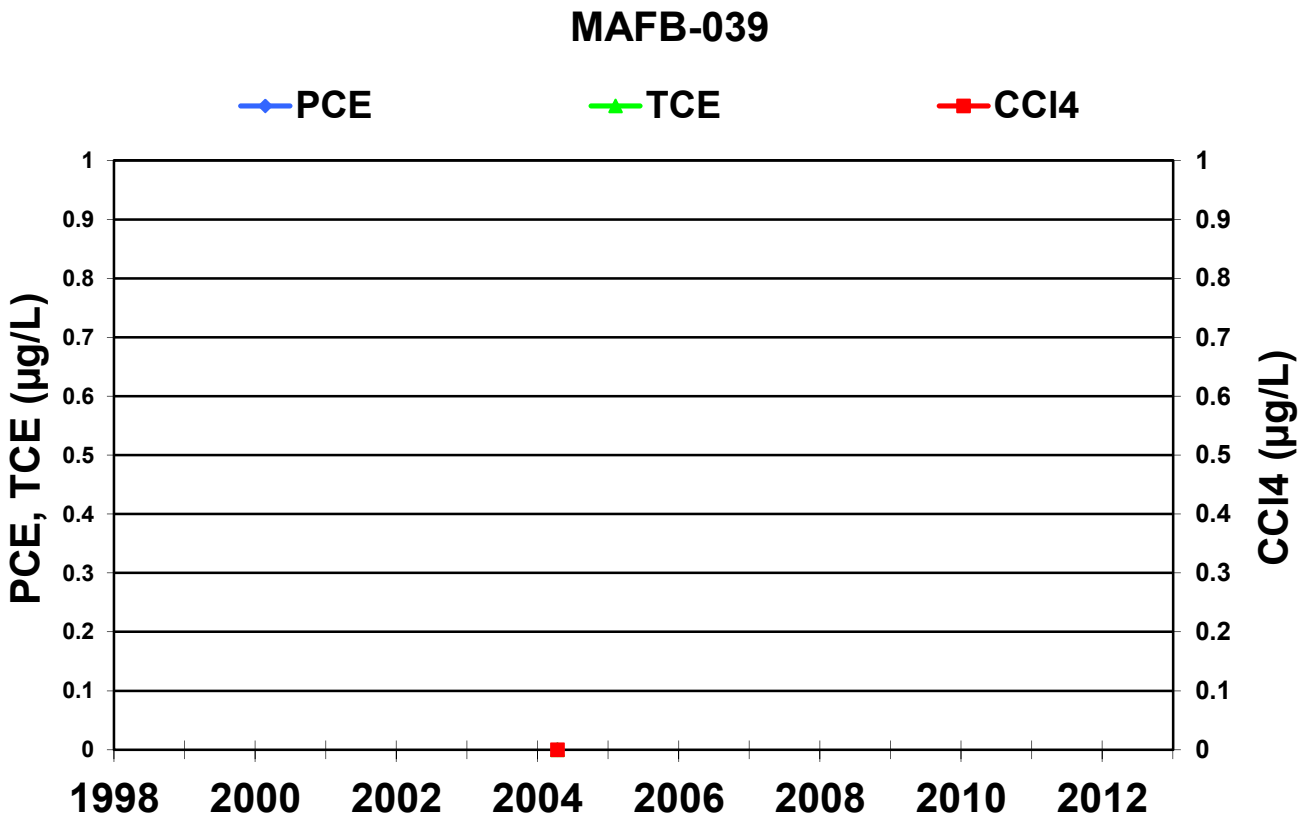

MAFB-006
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

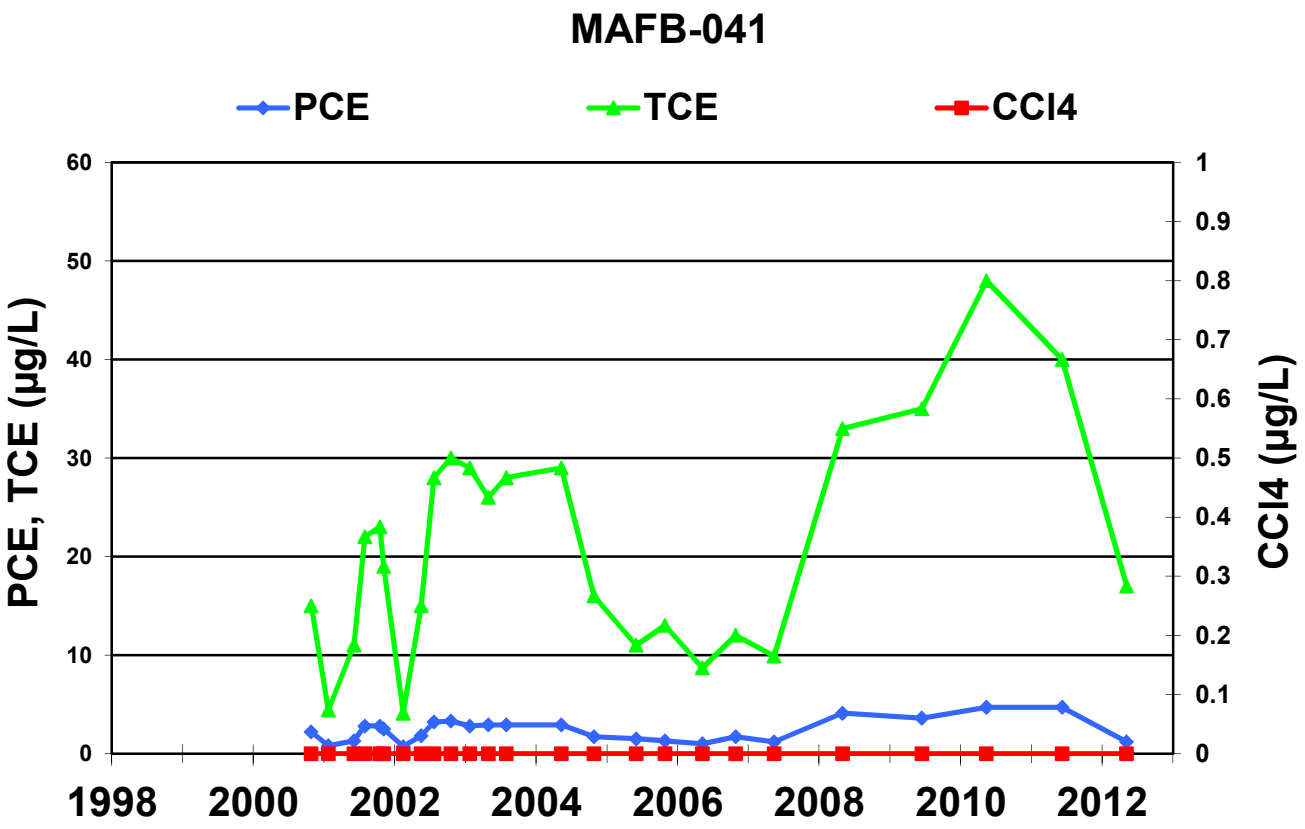

MAFB-012
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

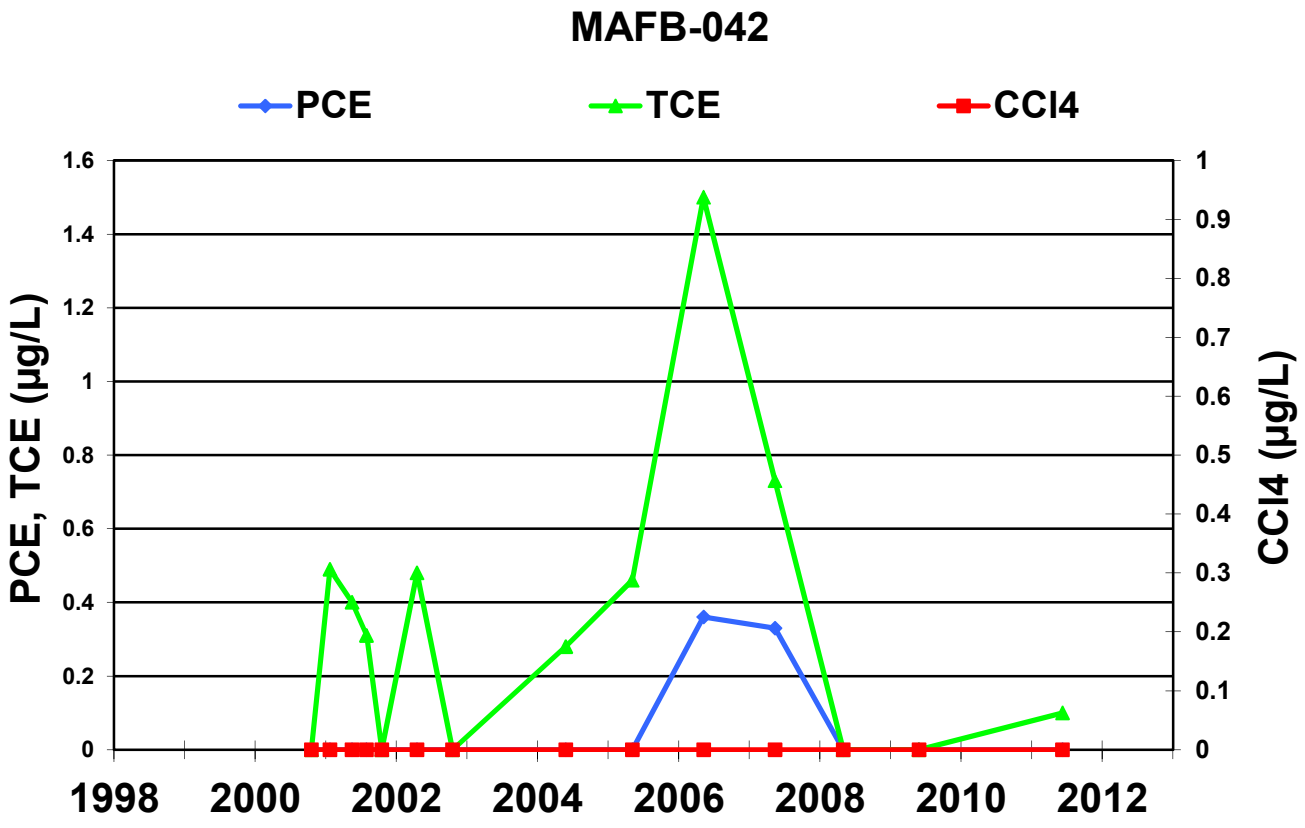

MAFB-013
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

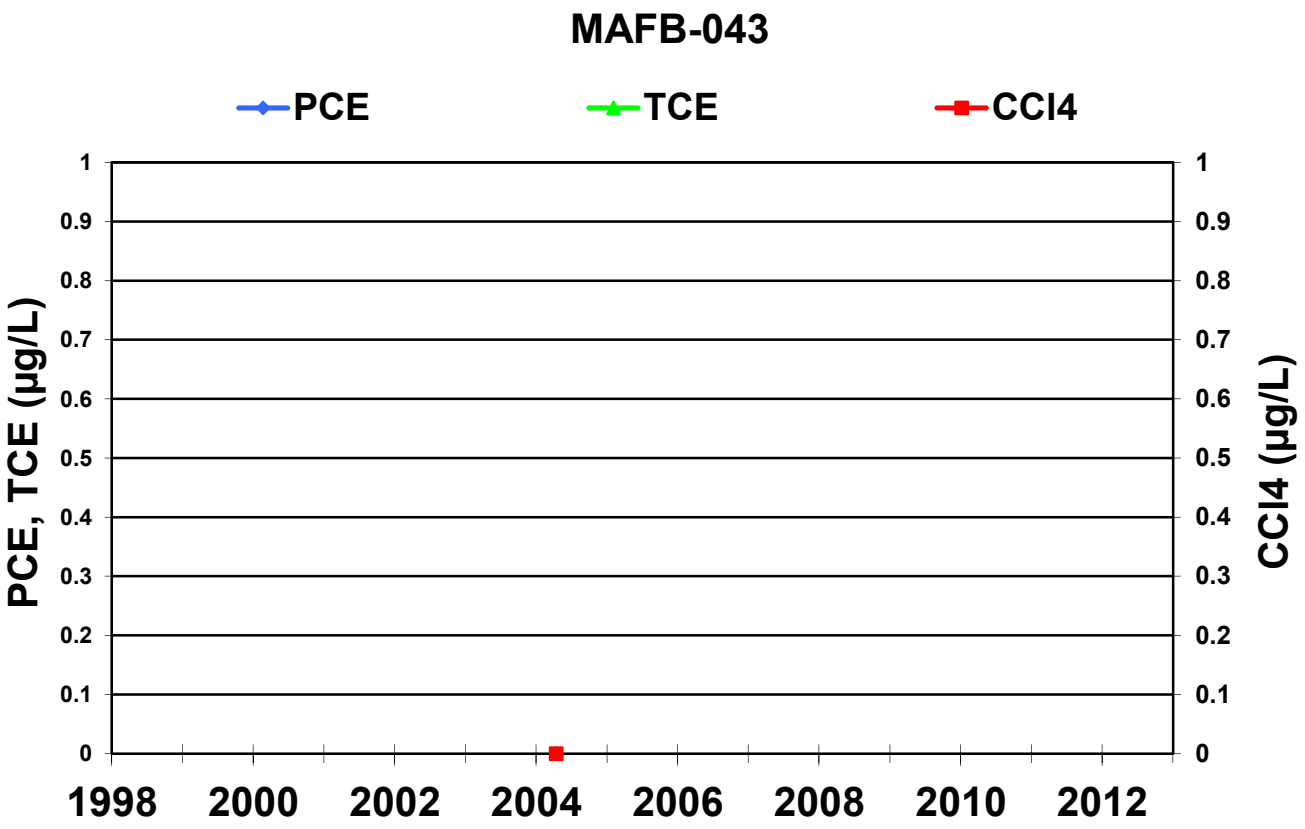

MAFB-033
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
300
250
200
150
100
50
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

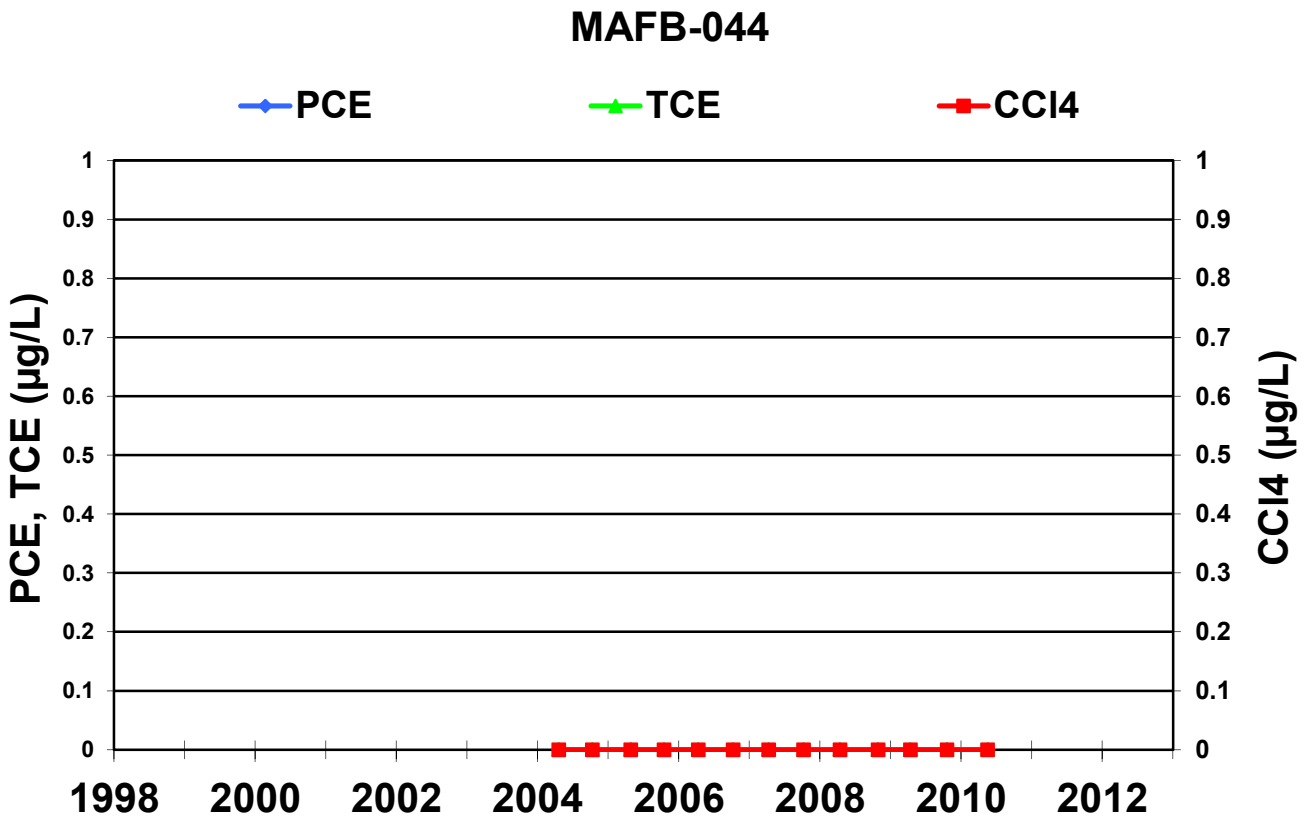

MAFB-037
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

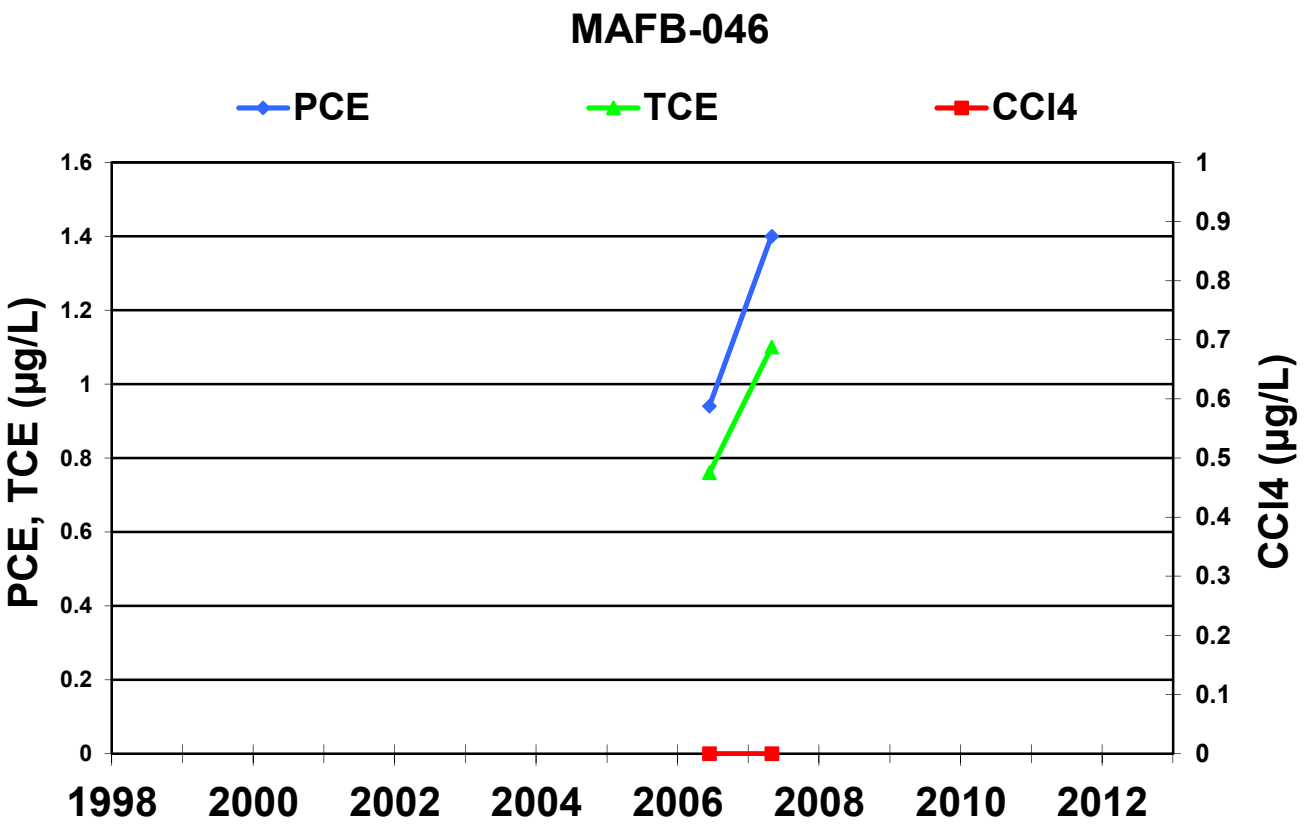

MAFB-039
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

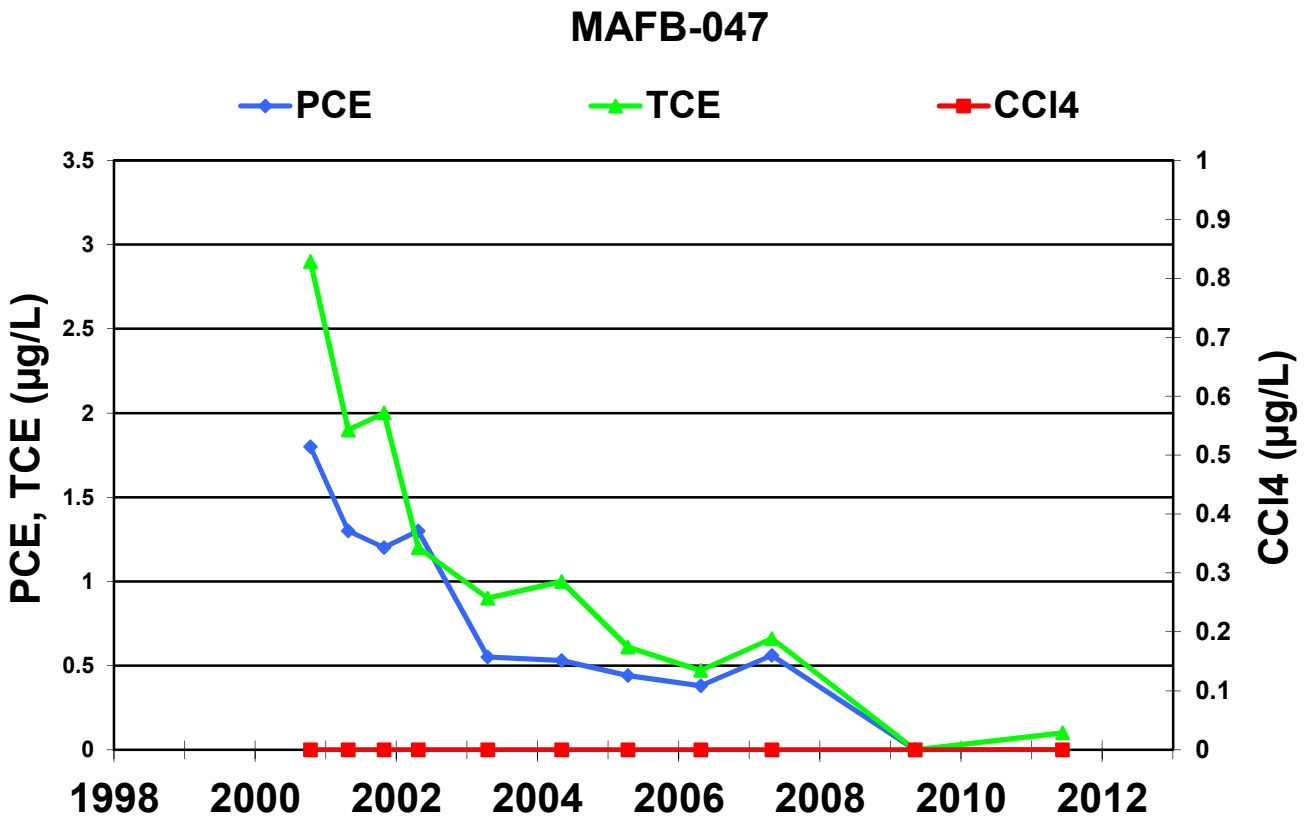

MAFB-041
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

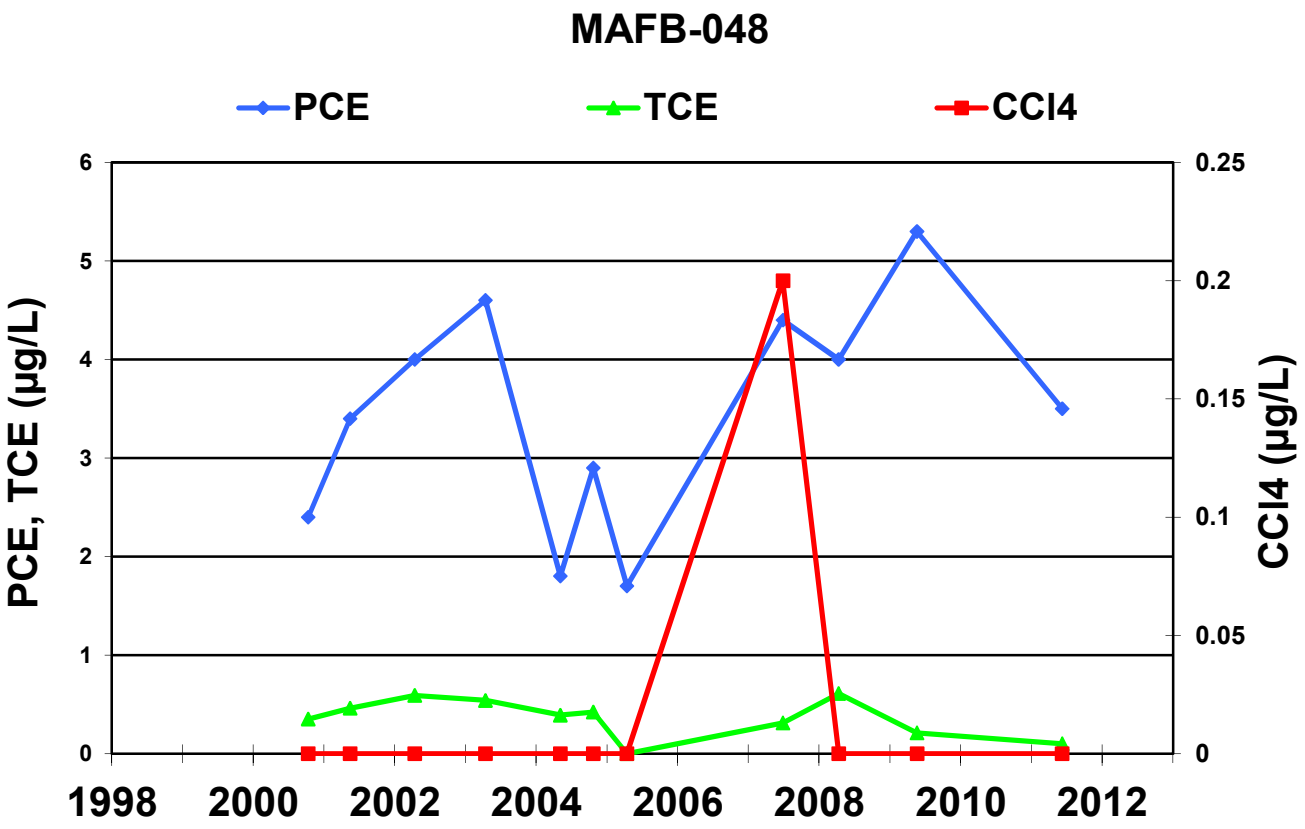

MAFB-042
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

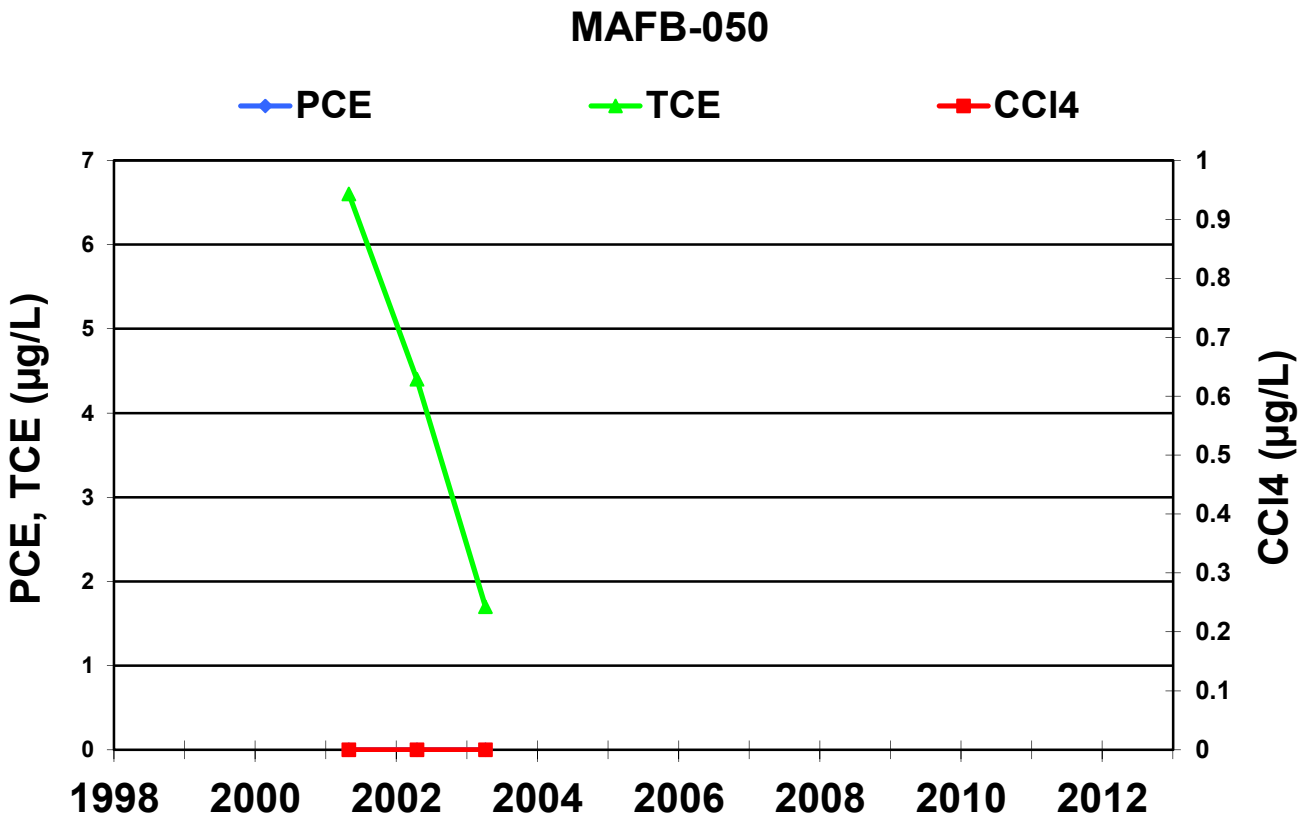

MAFB-043
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

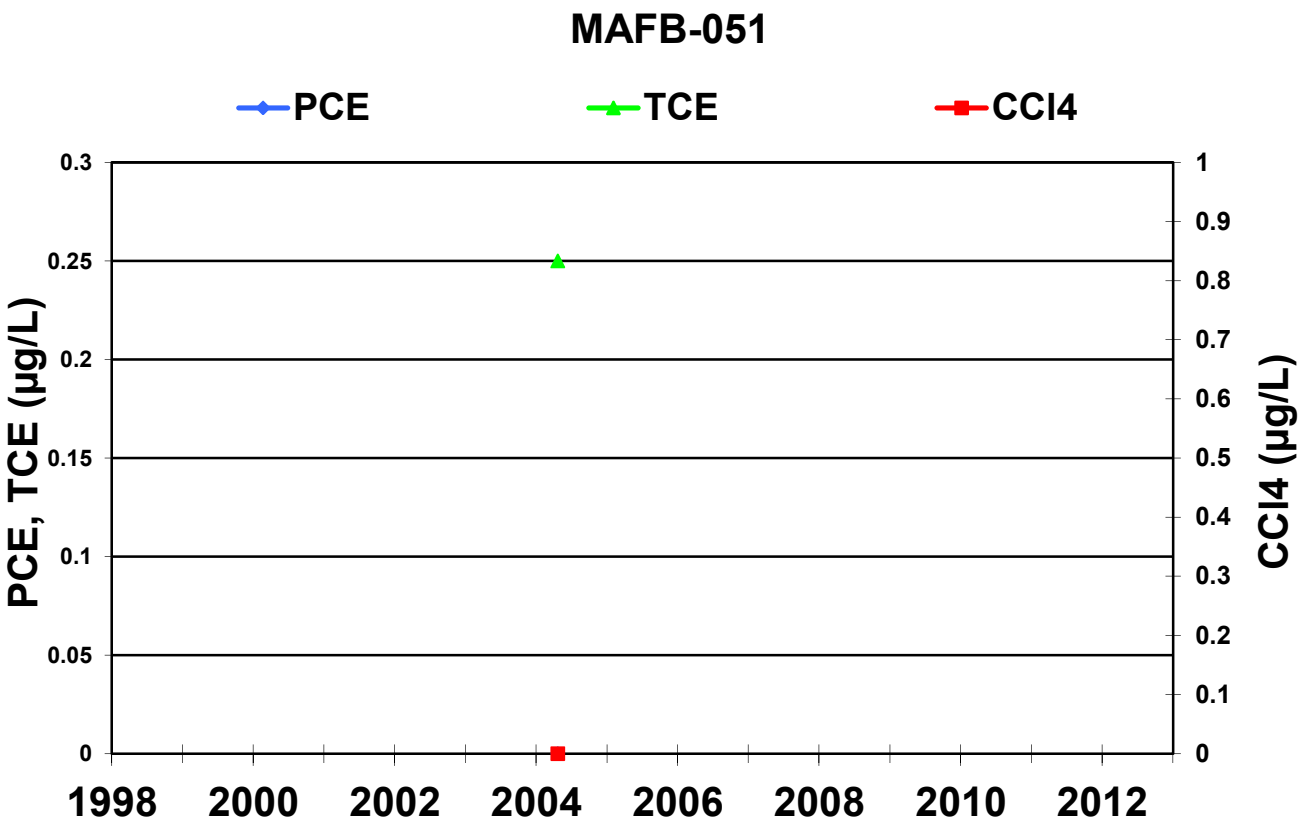

MAFB-044
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

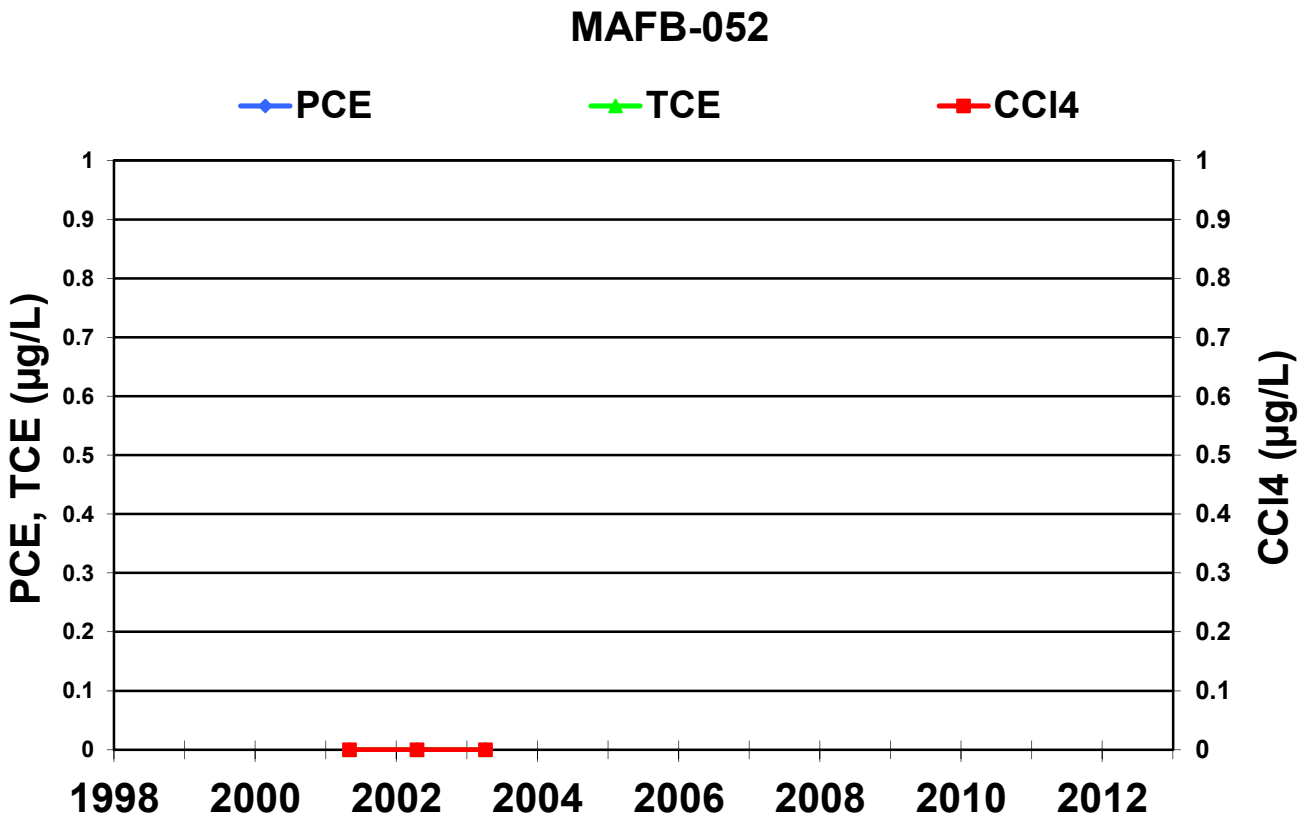

MAFB-046
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

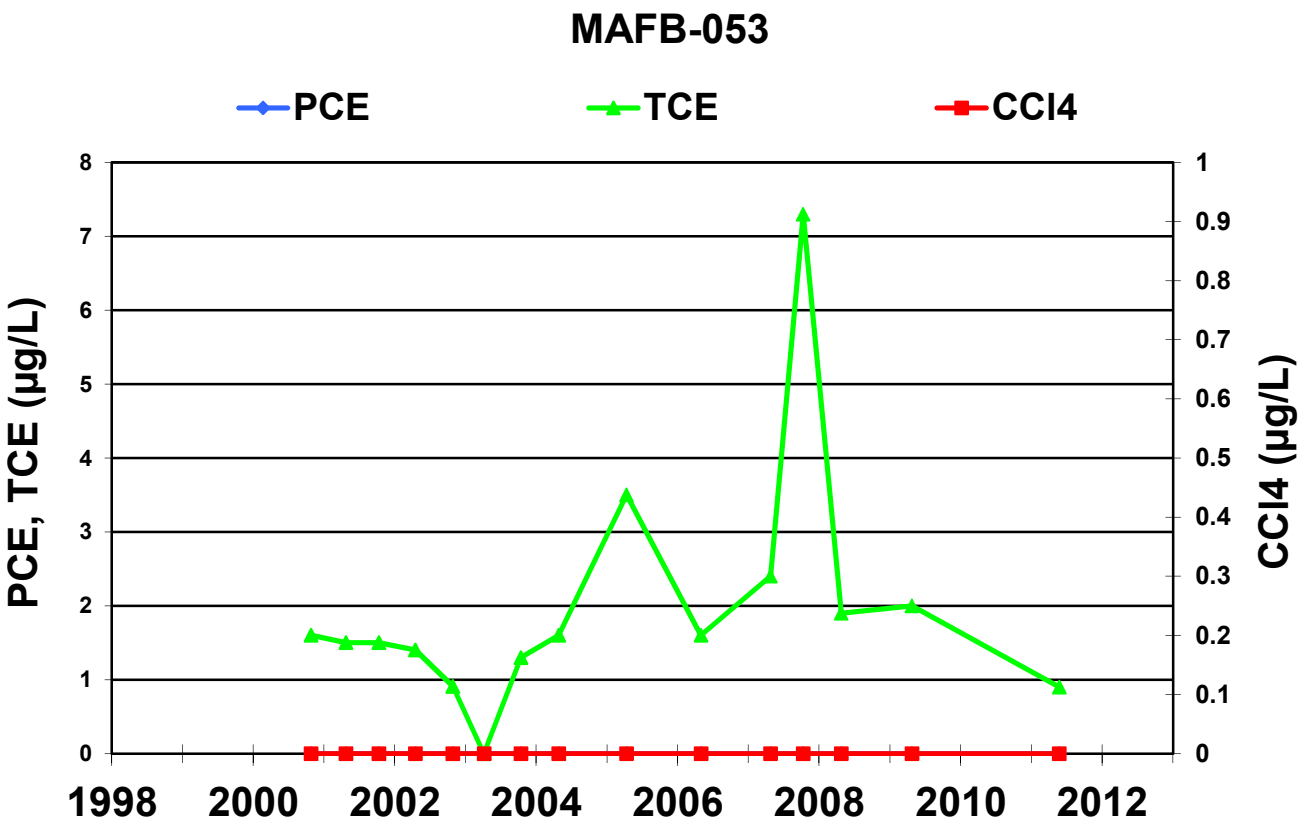

MAFB-047
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

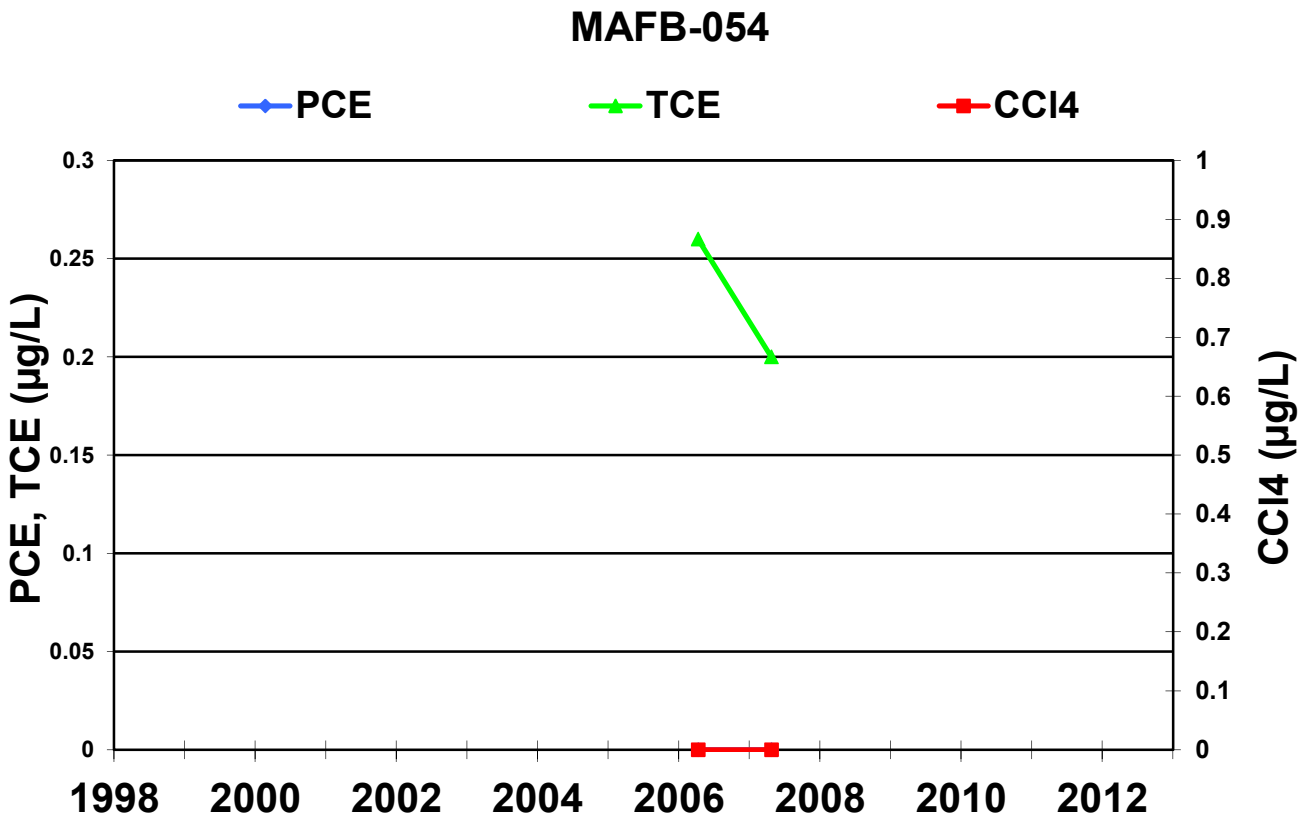

MAFB-048
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
1
2
3
4
5
6
0
0.05
0.1
0.15
0.2
0.25
1998
2000
2002
2004
2006
2008
2010
2012

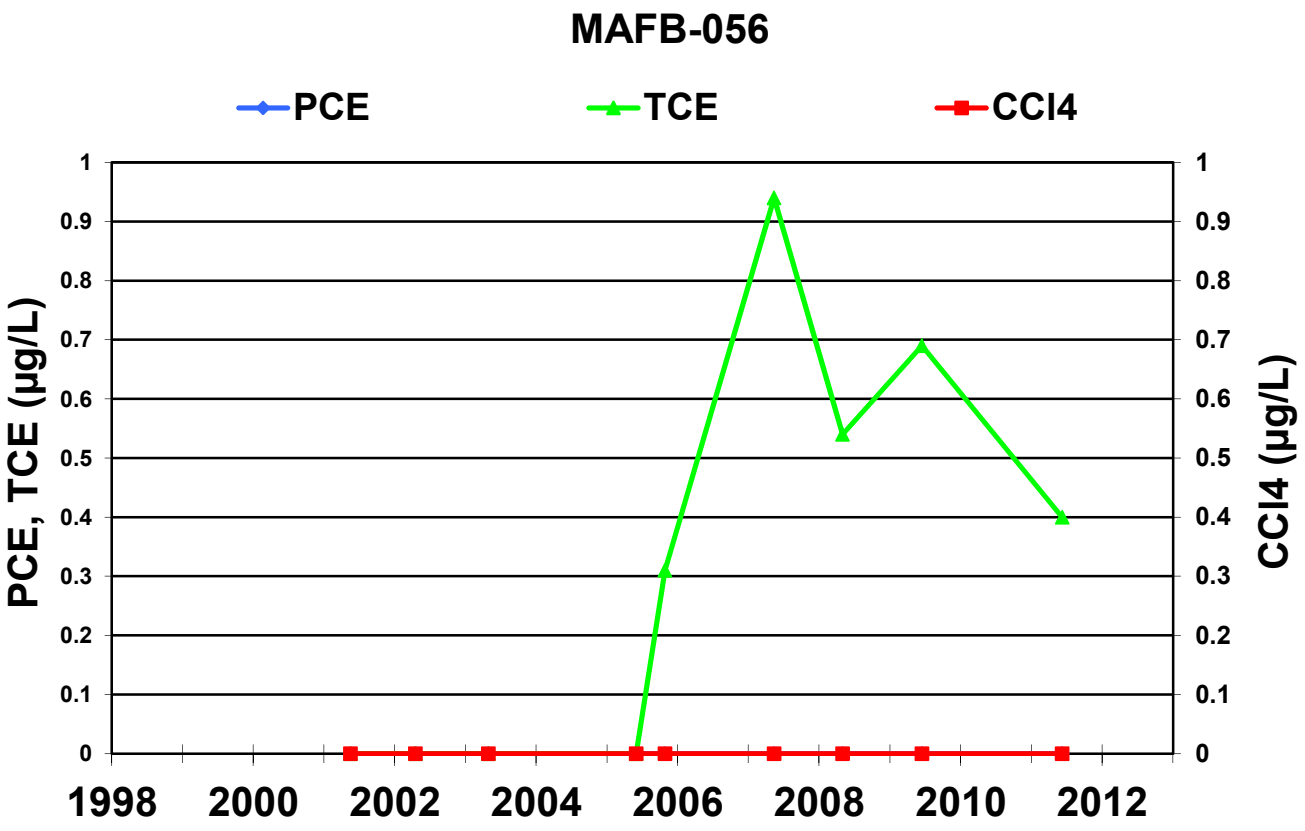

MAFB-050
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
1
2
3
4
5
6
7
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1998
2000
2002
2004
2006
2008
2010
2012

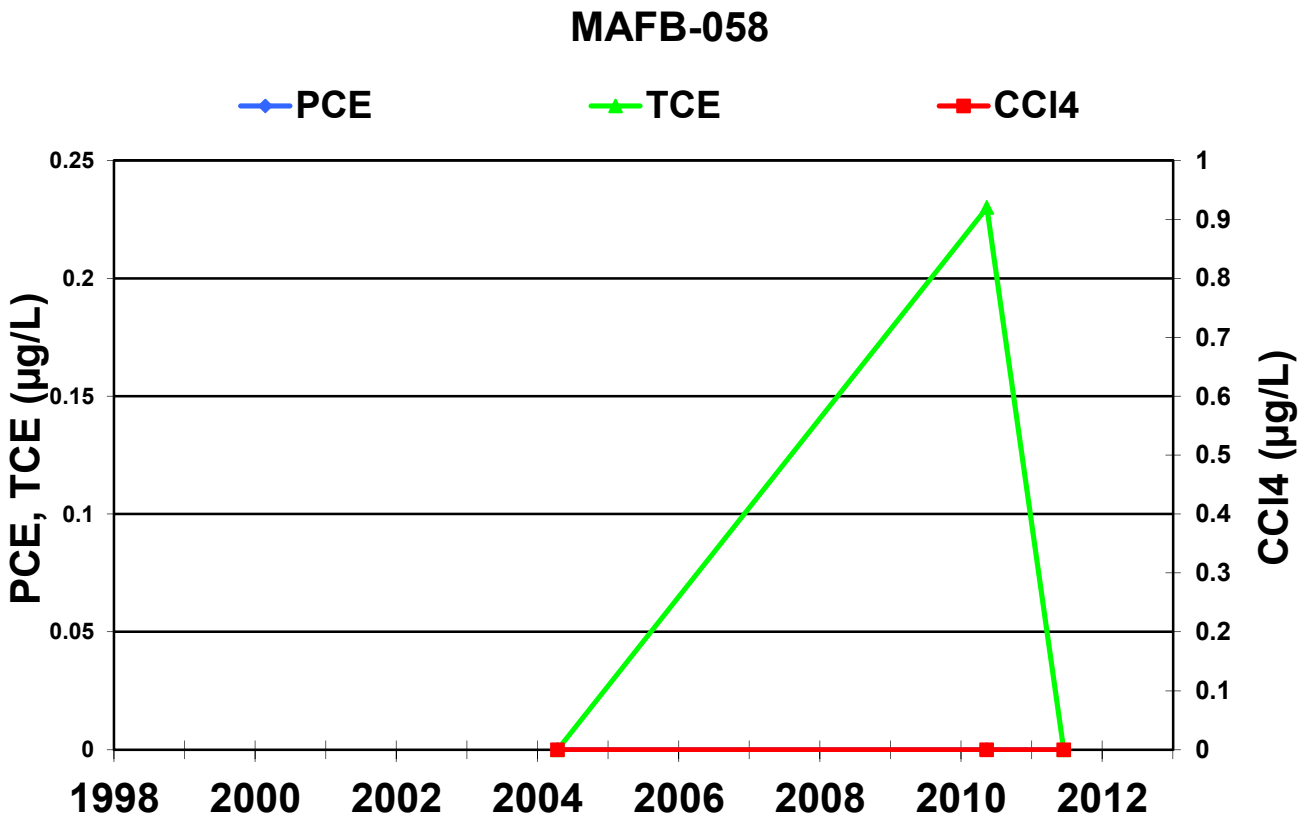

MAFB-051
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

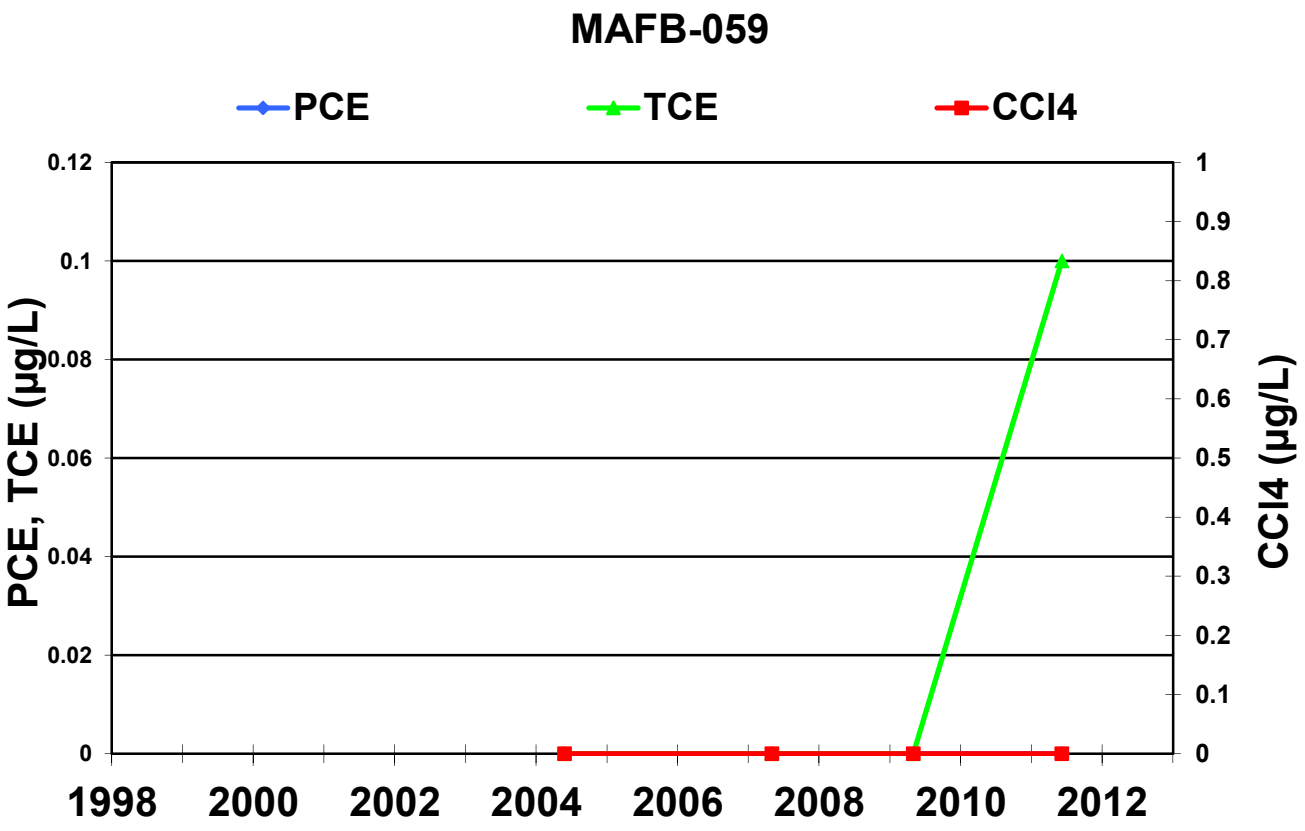

MAFB-052
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

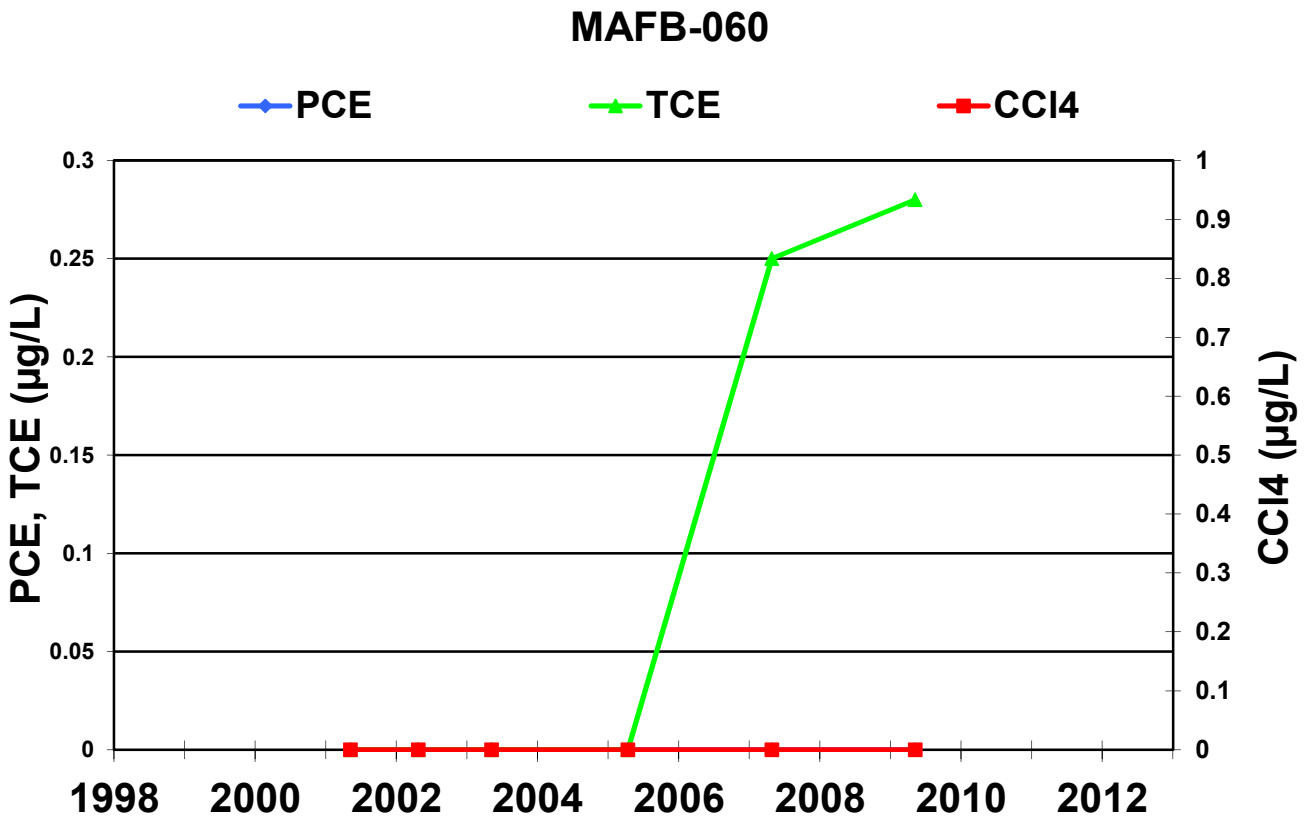

MAFB-053
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
1
2
3
4
5
6
7
8
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1998
2000
2002
2004
2006
2008
2010
2012

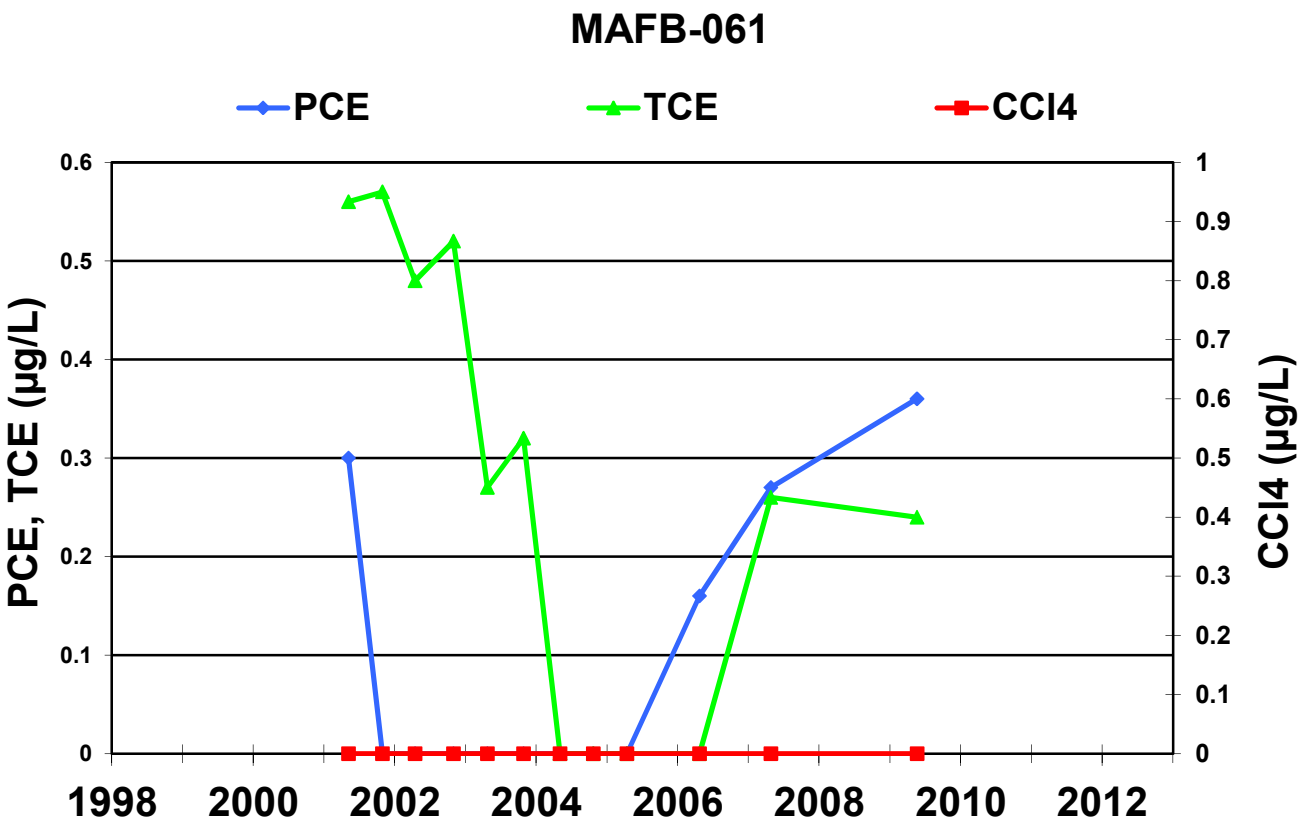

MAFB-054
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
0.05
0.1
0.15
0.2
0.25
0.3
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1998
2000
2002
2004
2006
2008
2010
2012

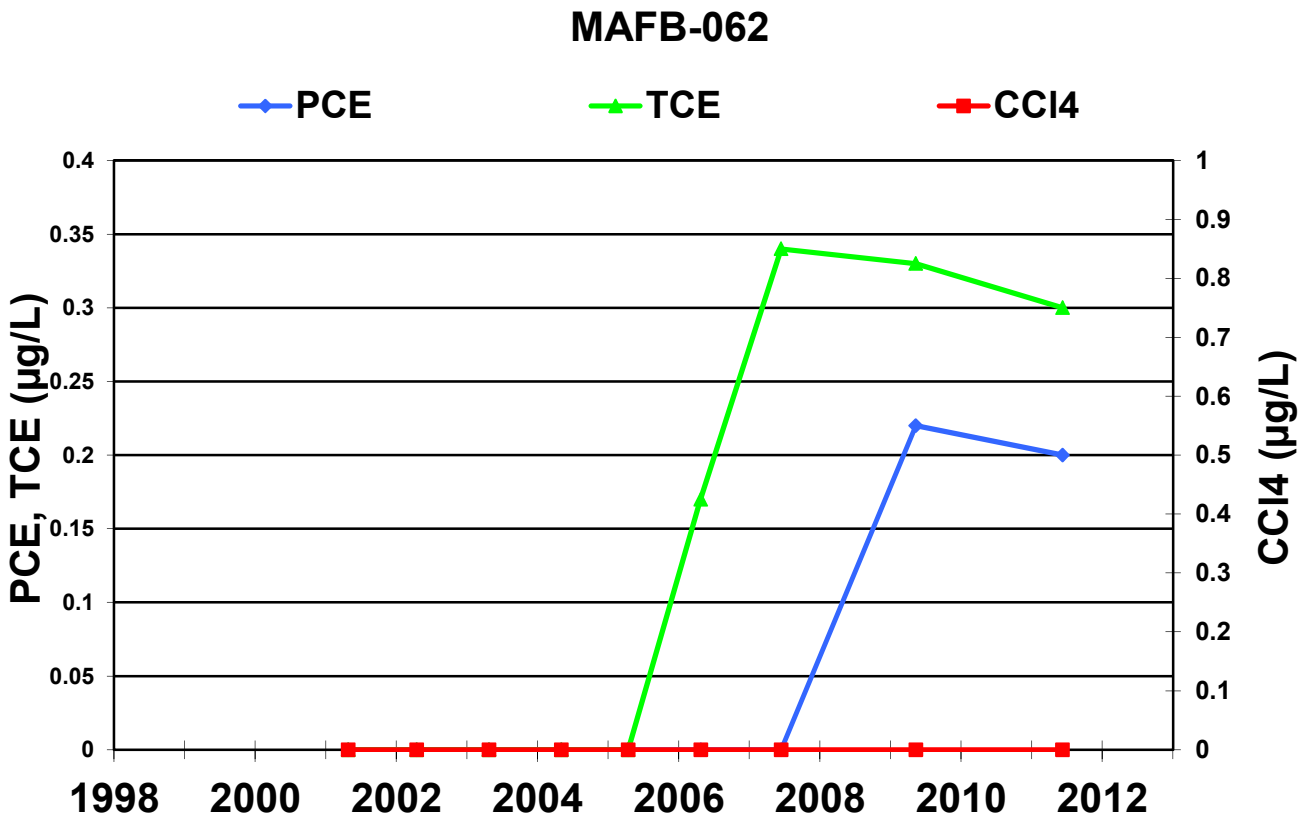

MAFB-056
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

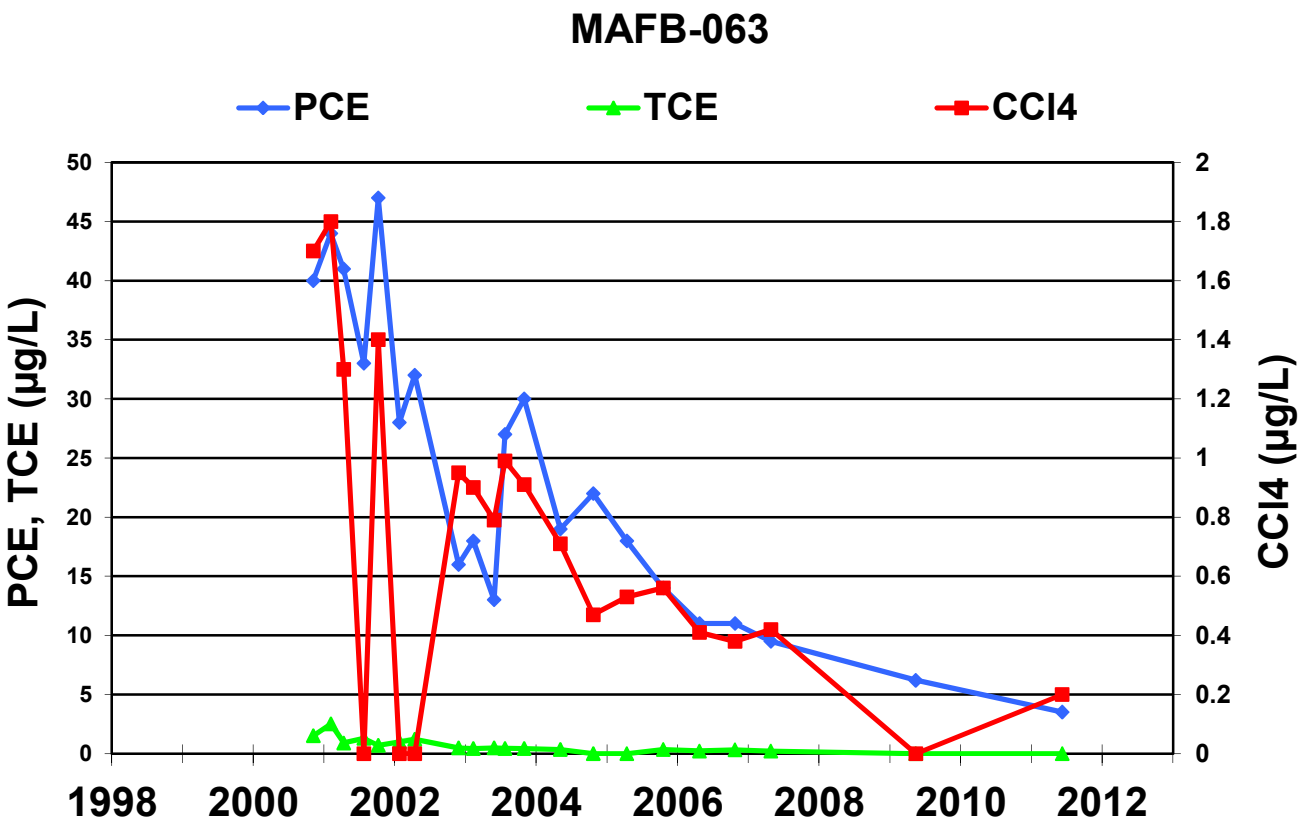

MAFB-058
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

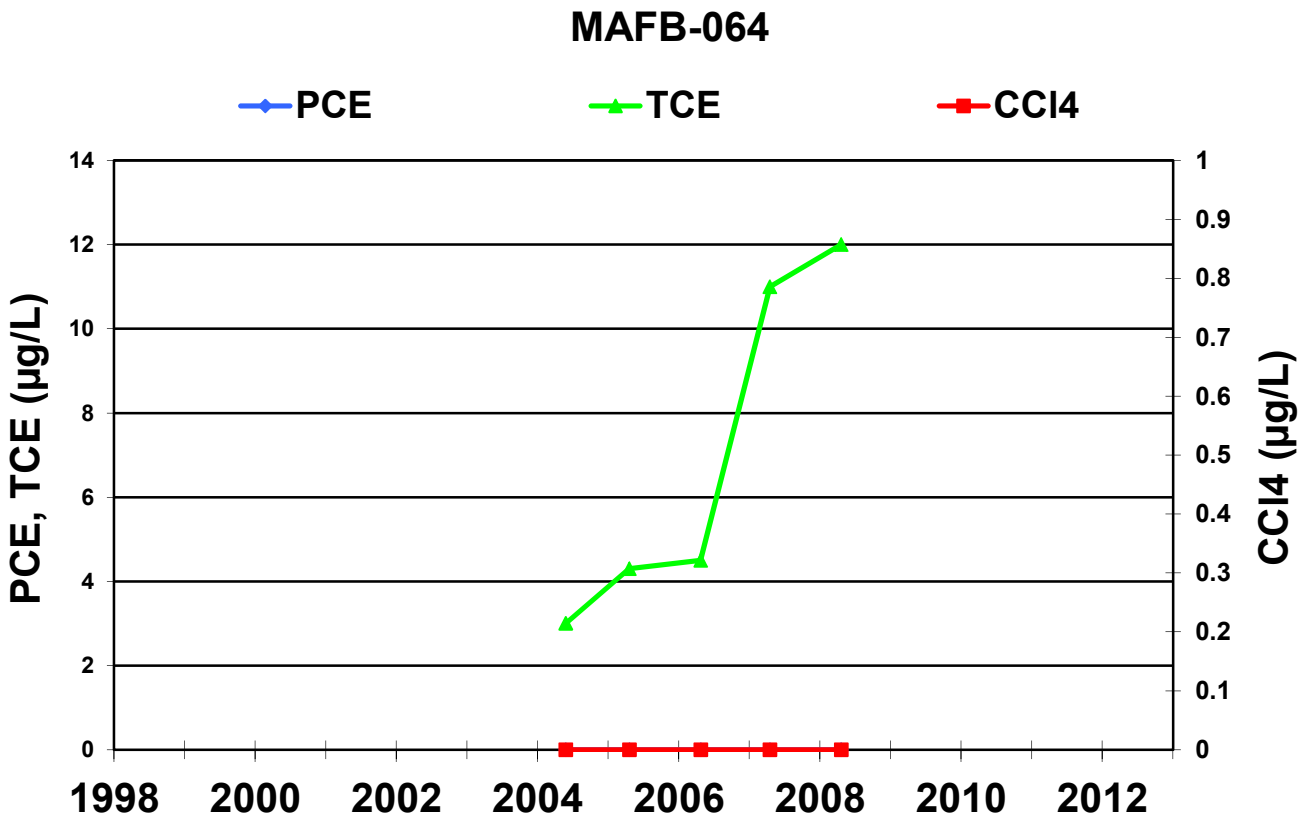

MAFB-059
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.12
0.1
0.08
0.06
0.04
0.02
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

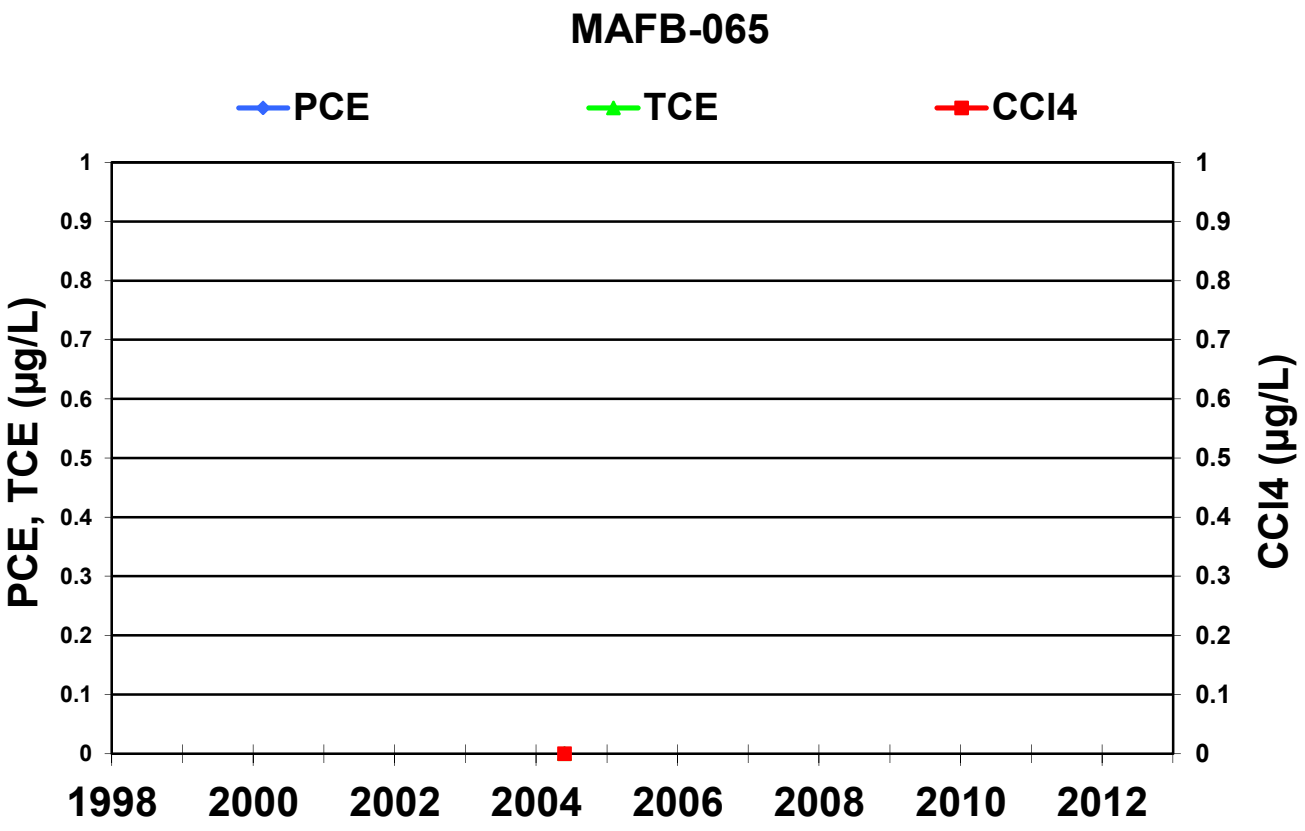

MAFB-060
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

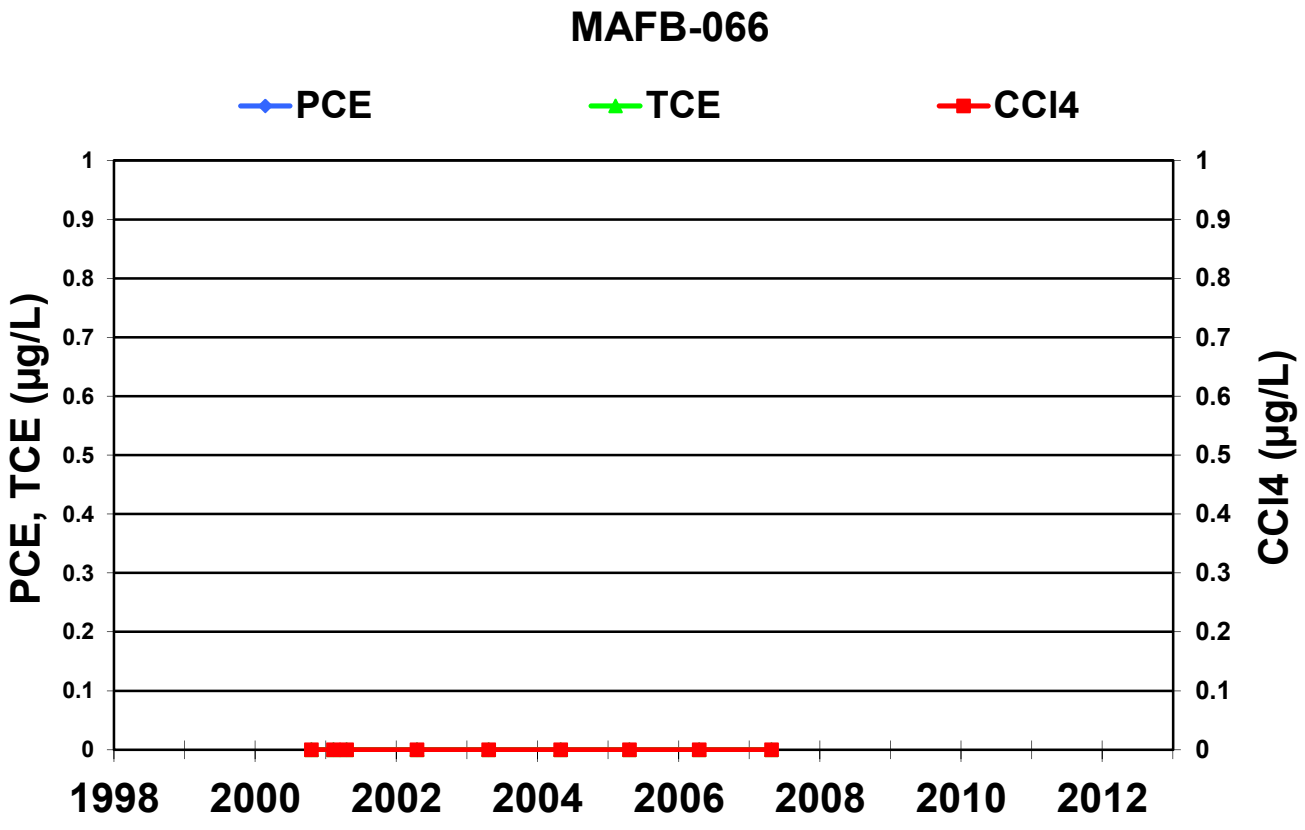

MAFB-061
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

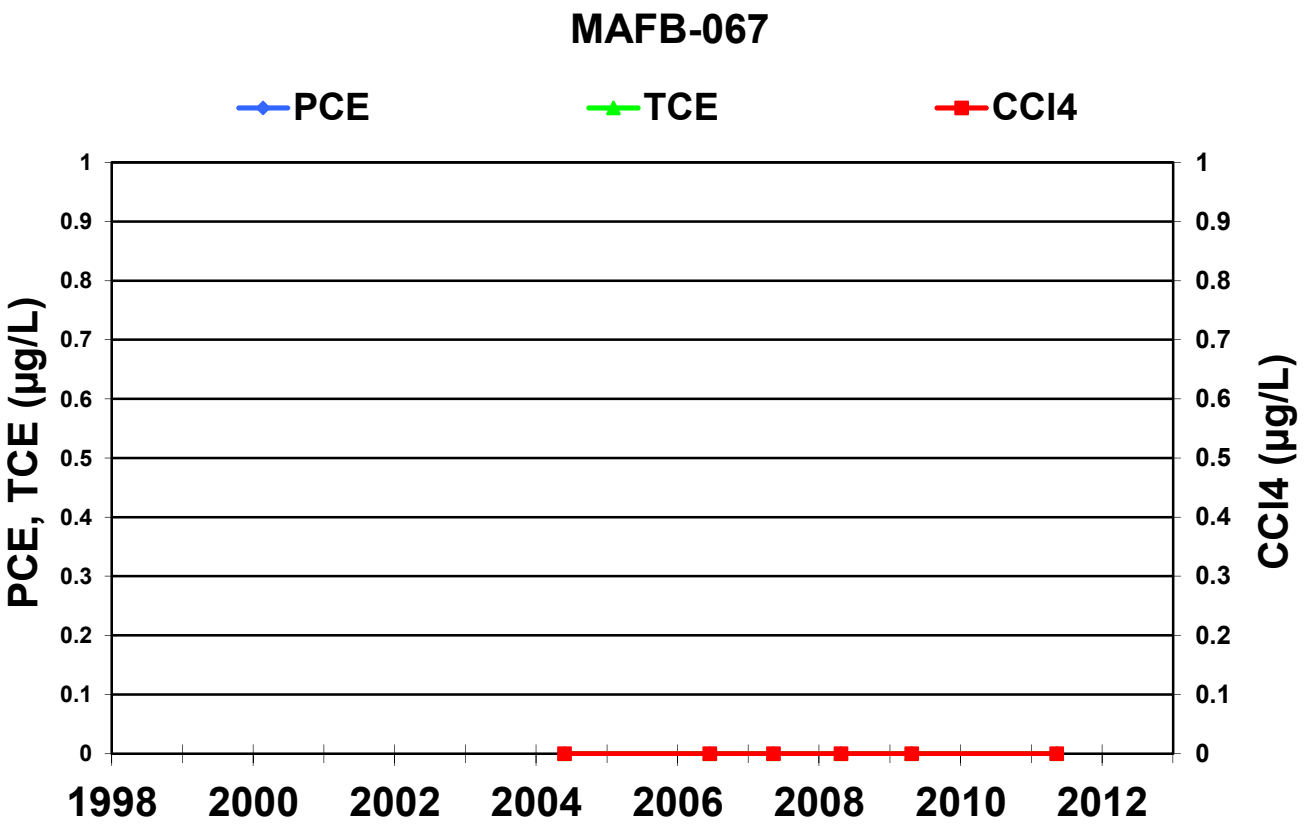

MAFB-062
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

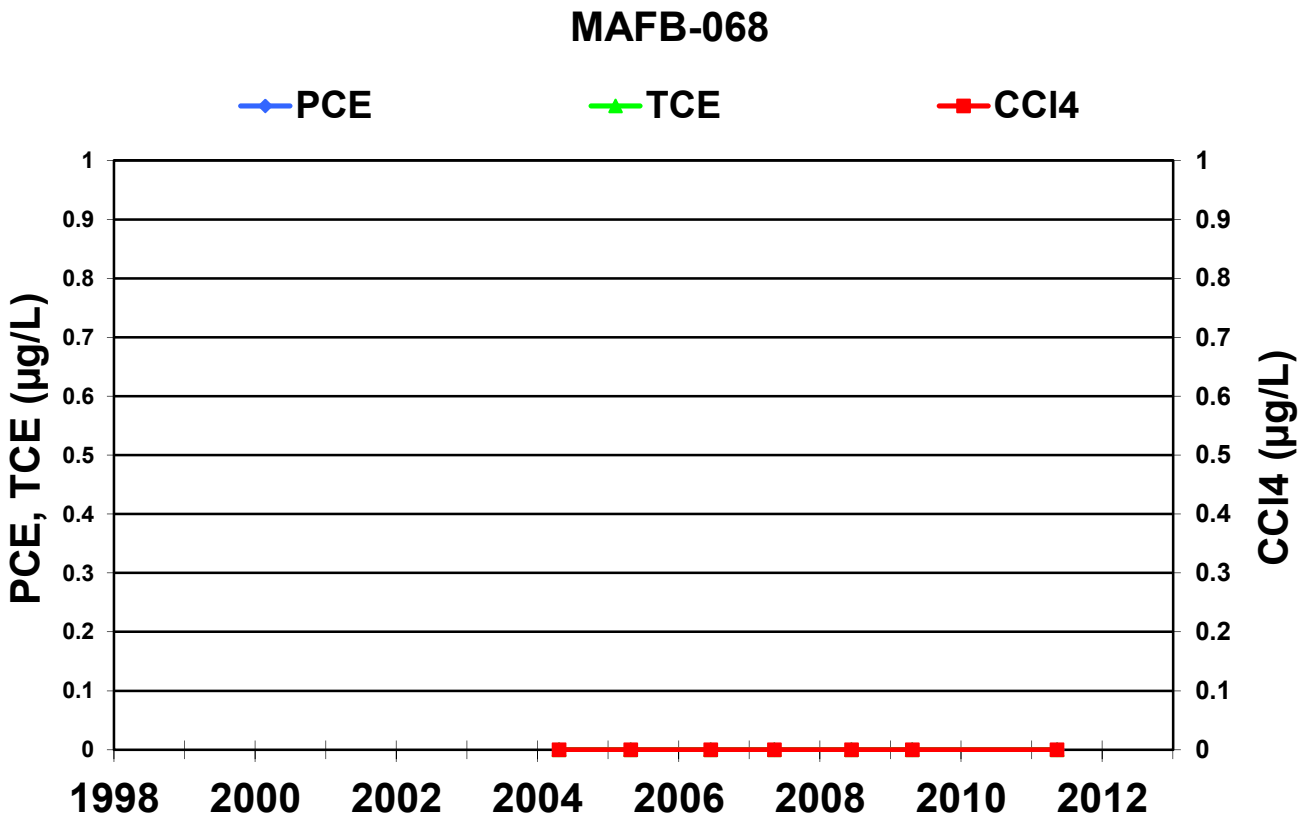

MAFB-063
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
50
45
40
35
30
25
20
15
10
5
0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

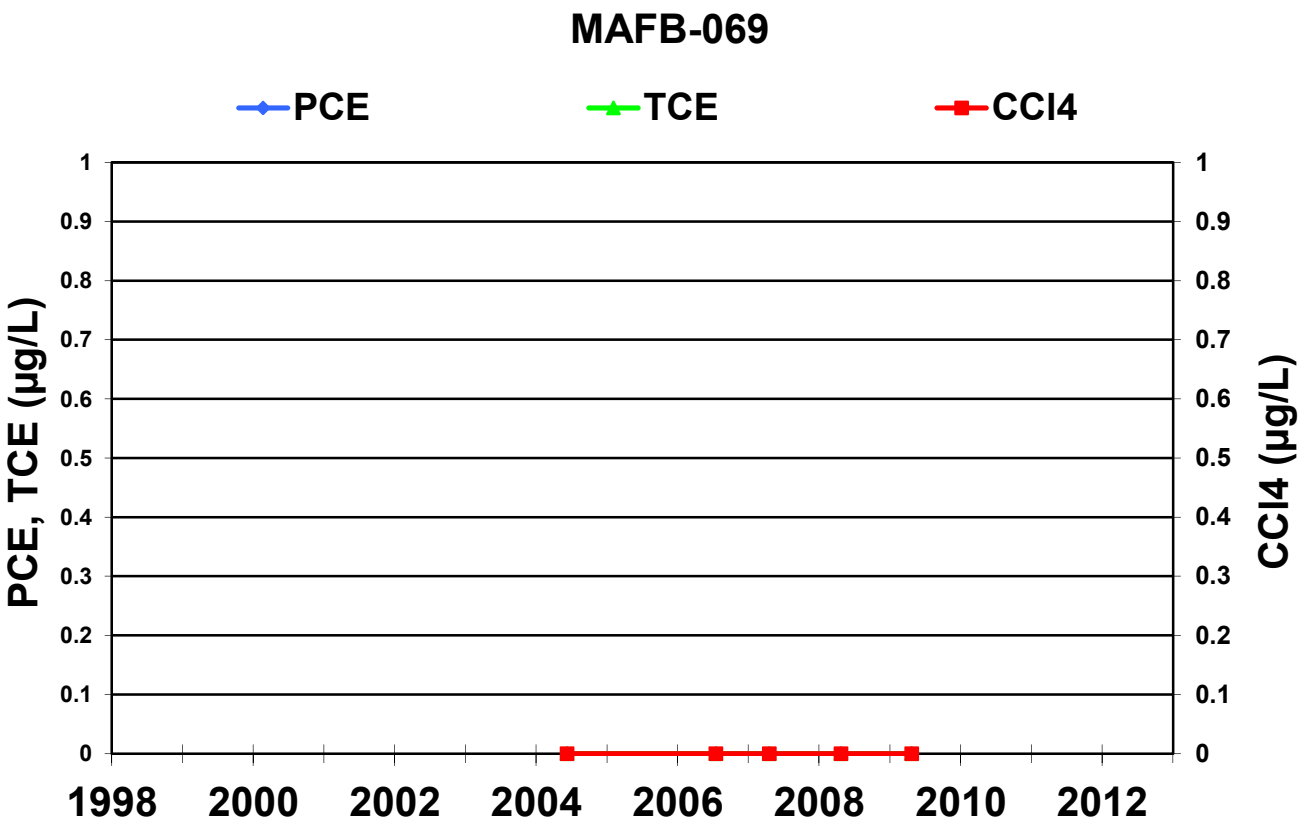

MAFB-064
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

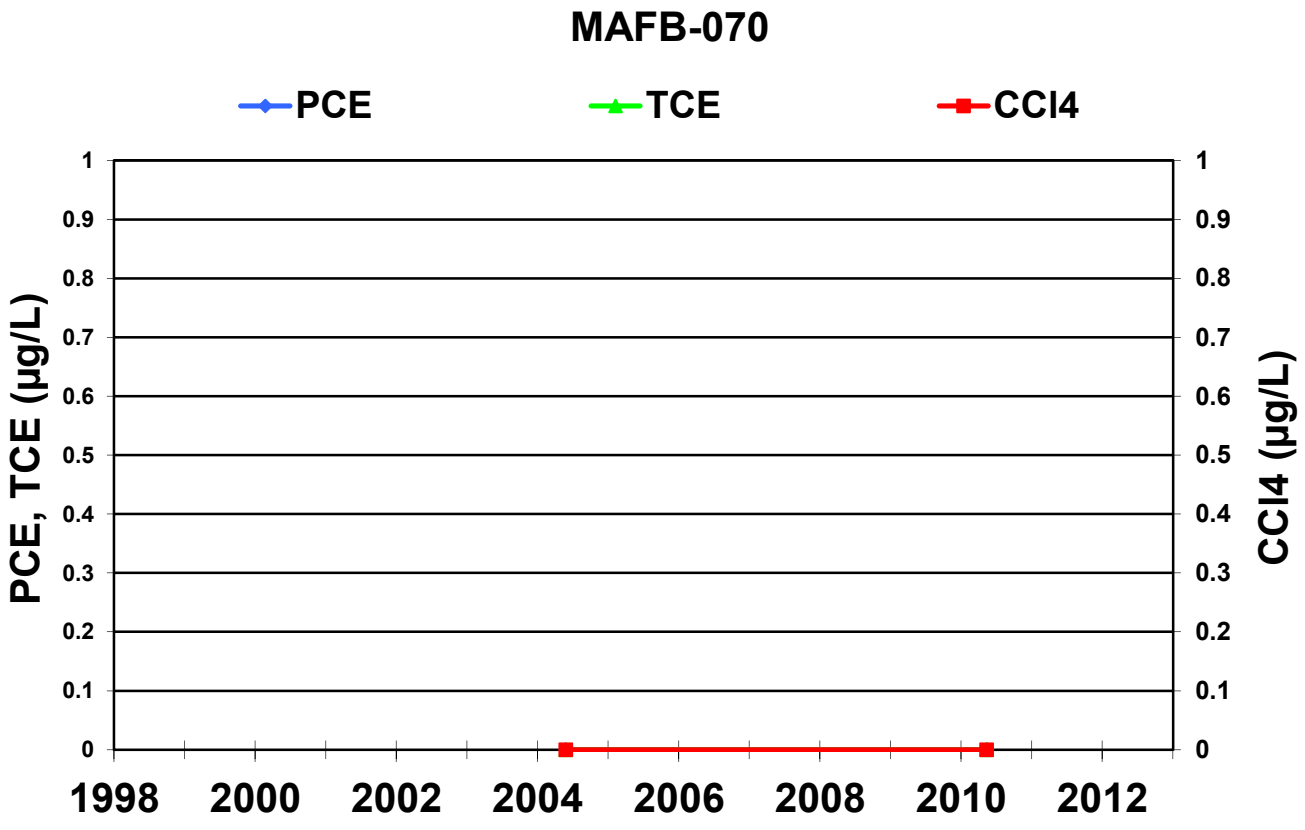

MAFB-065
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

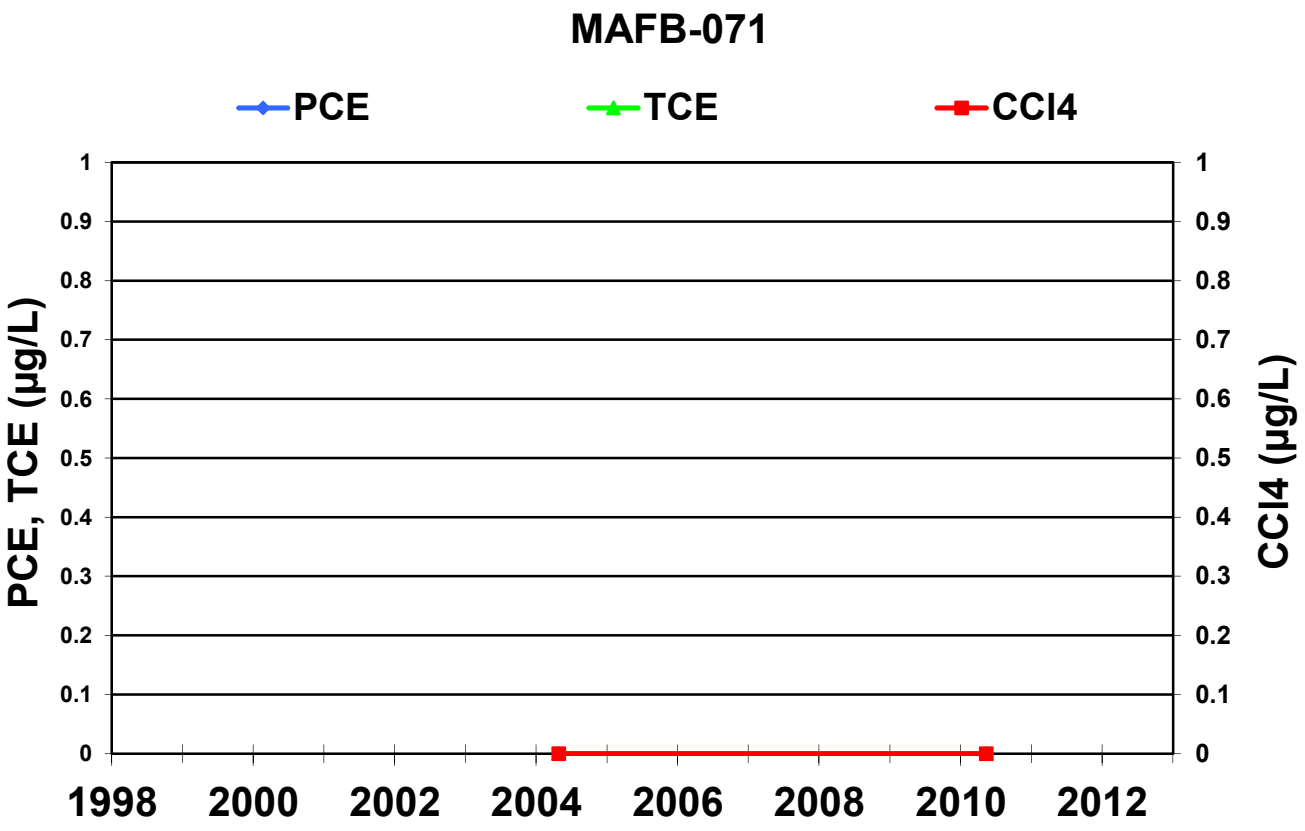

MAFB-066
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

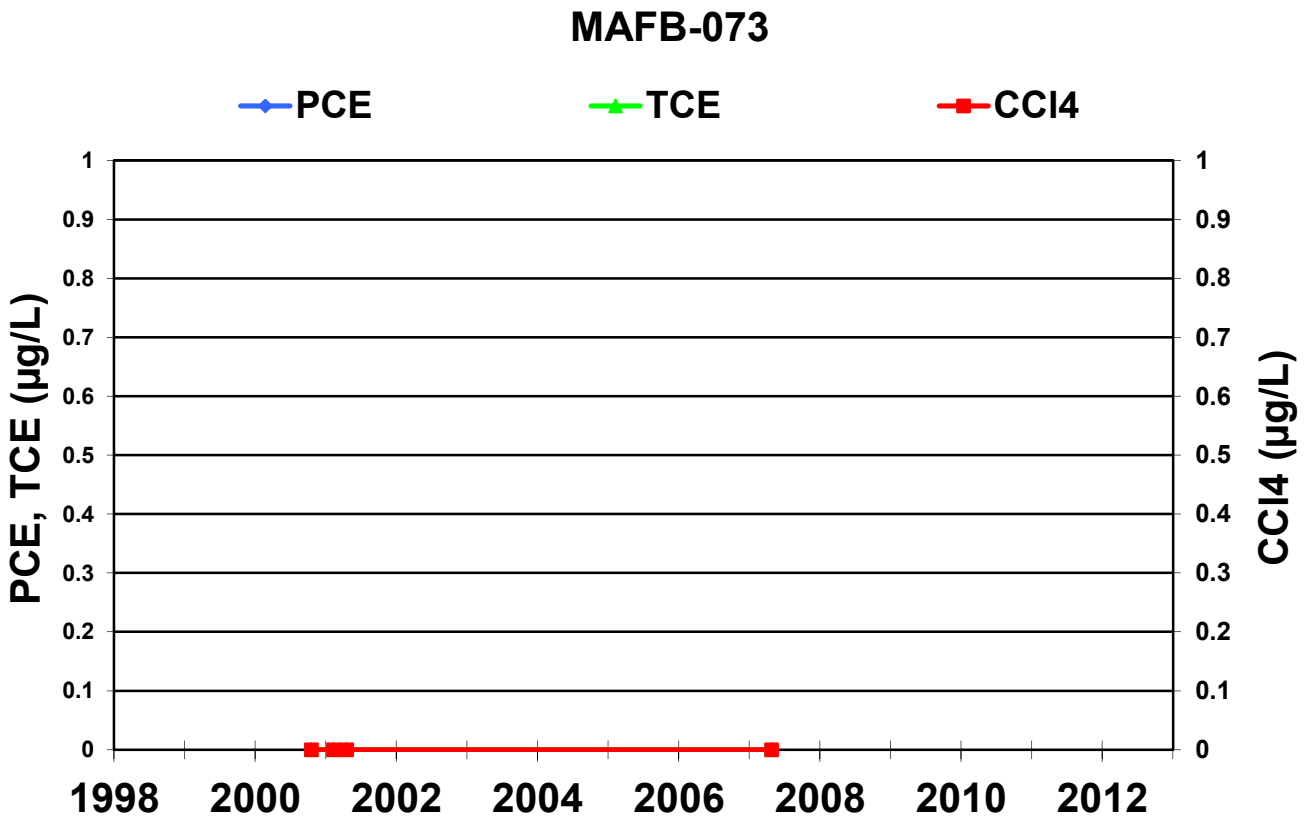

MAFB-067
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

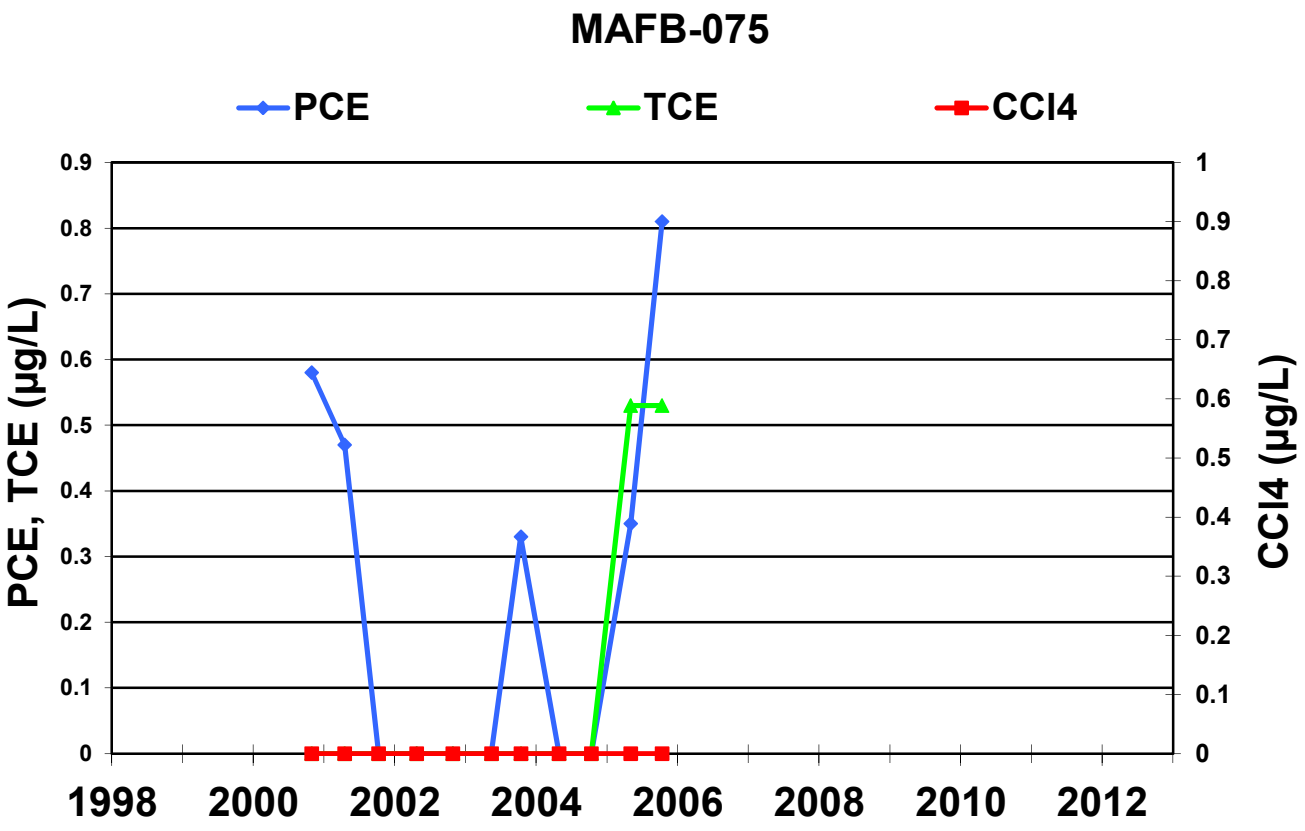

MAFB-068
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

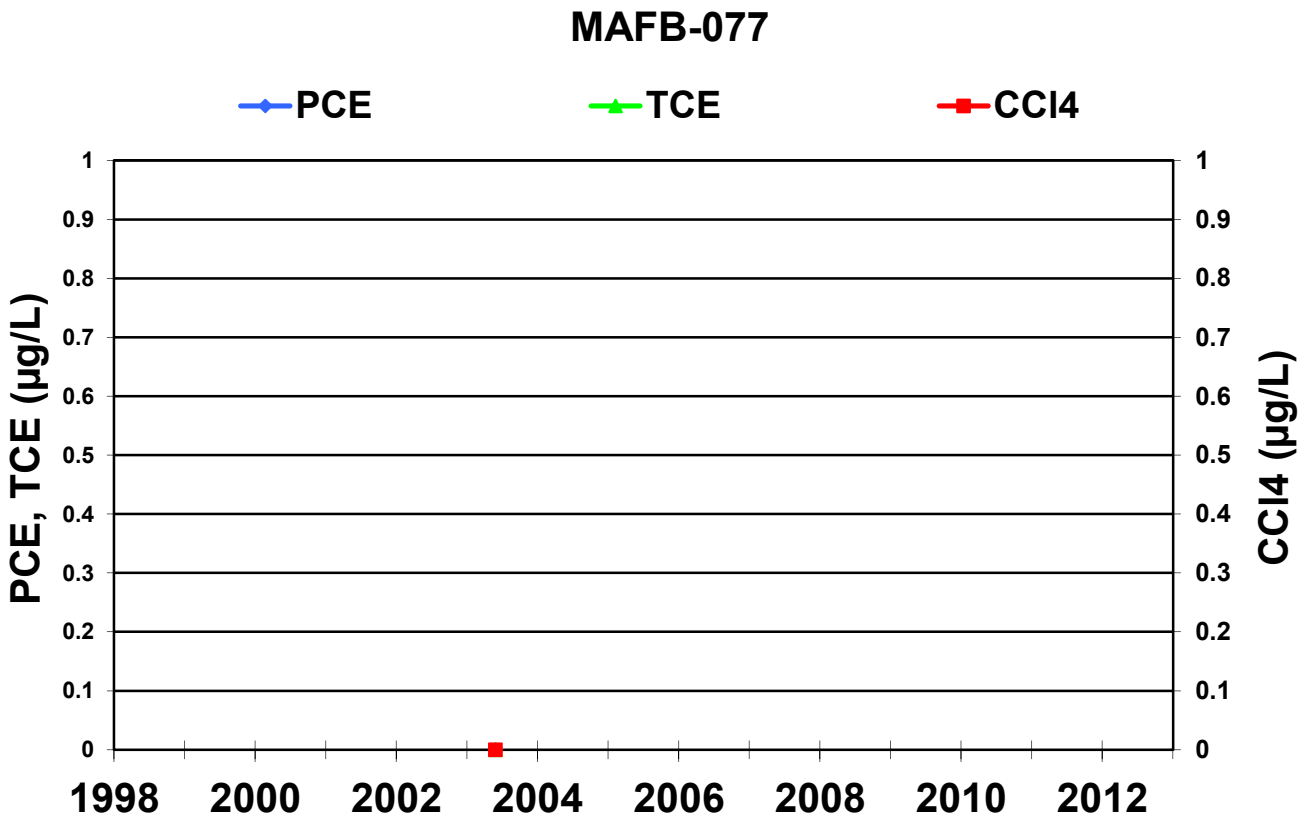

MAFB-069
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

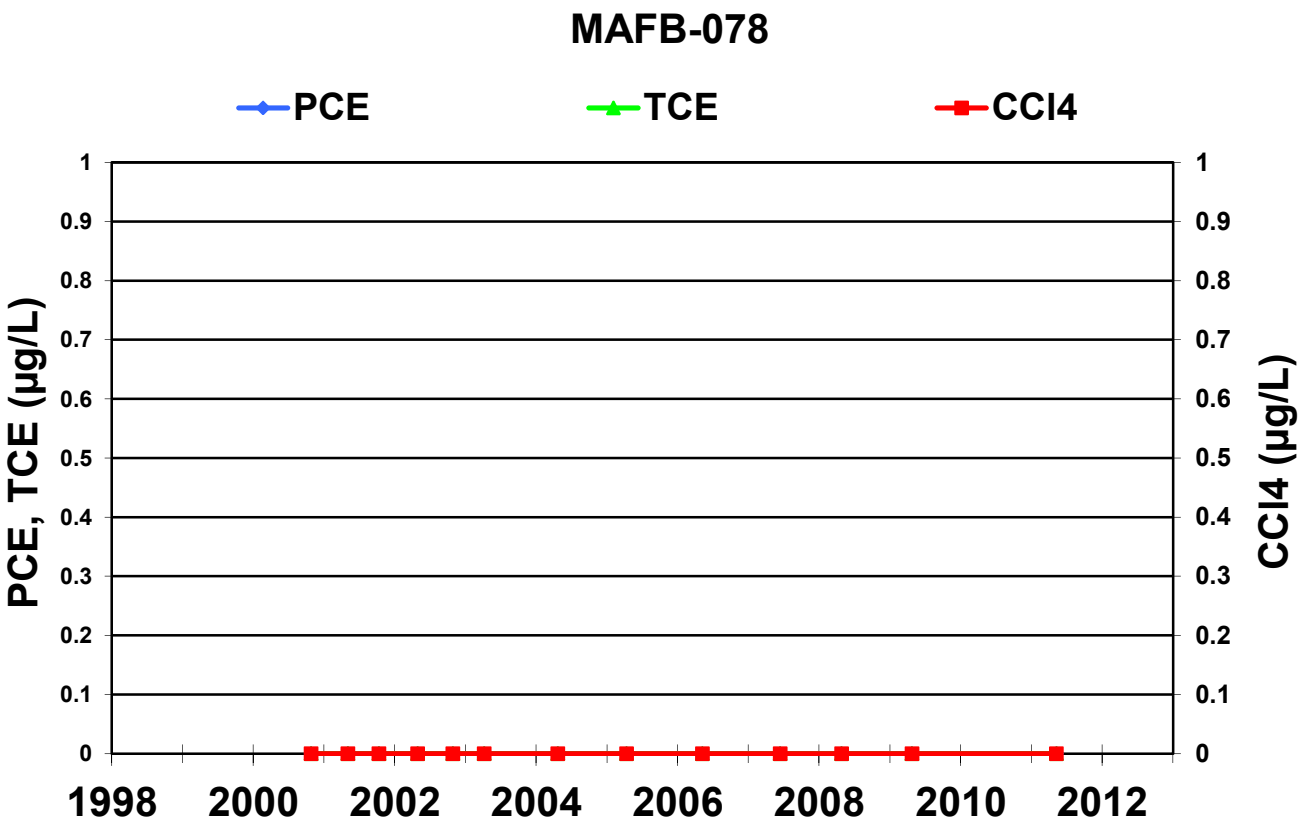

MAFB-070
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

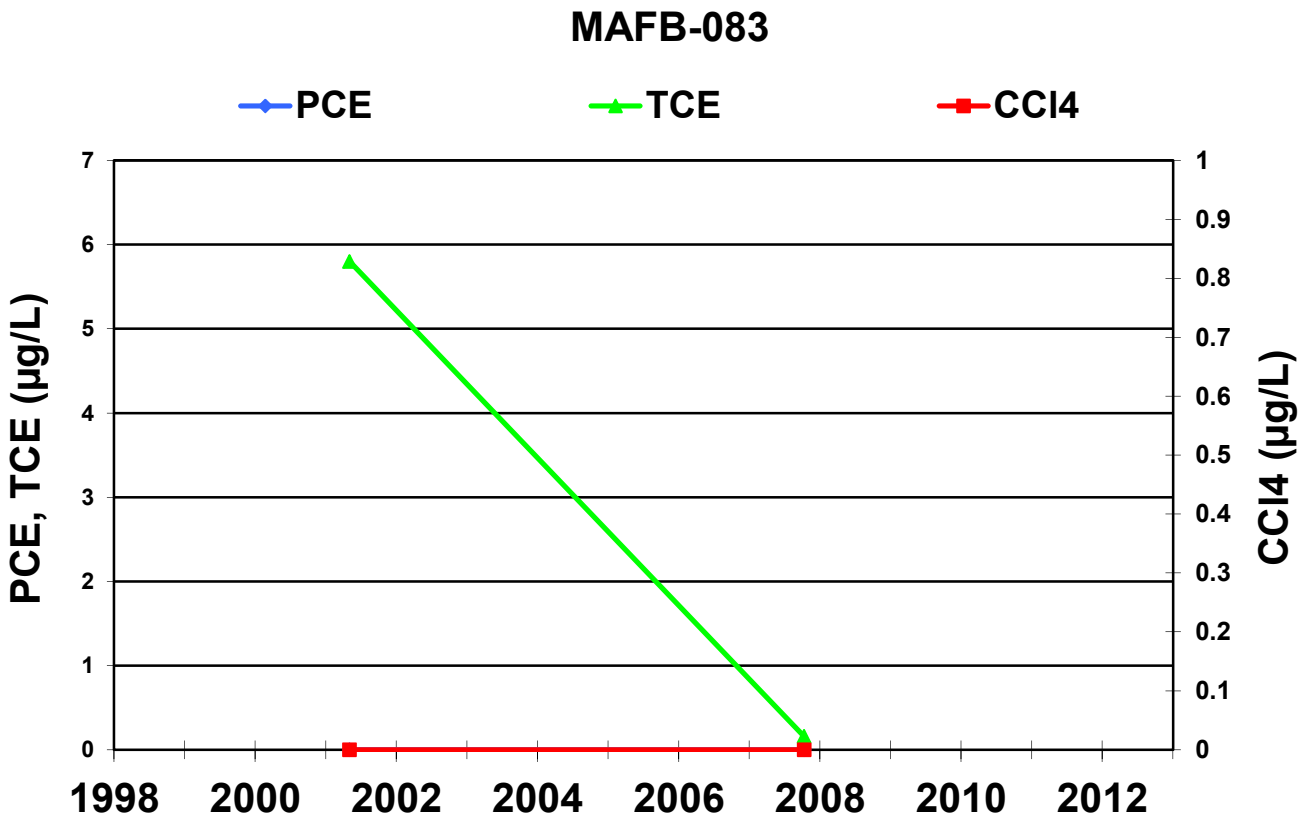

MAFB-071
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

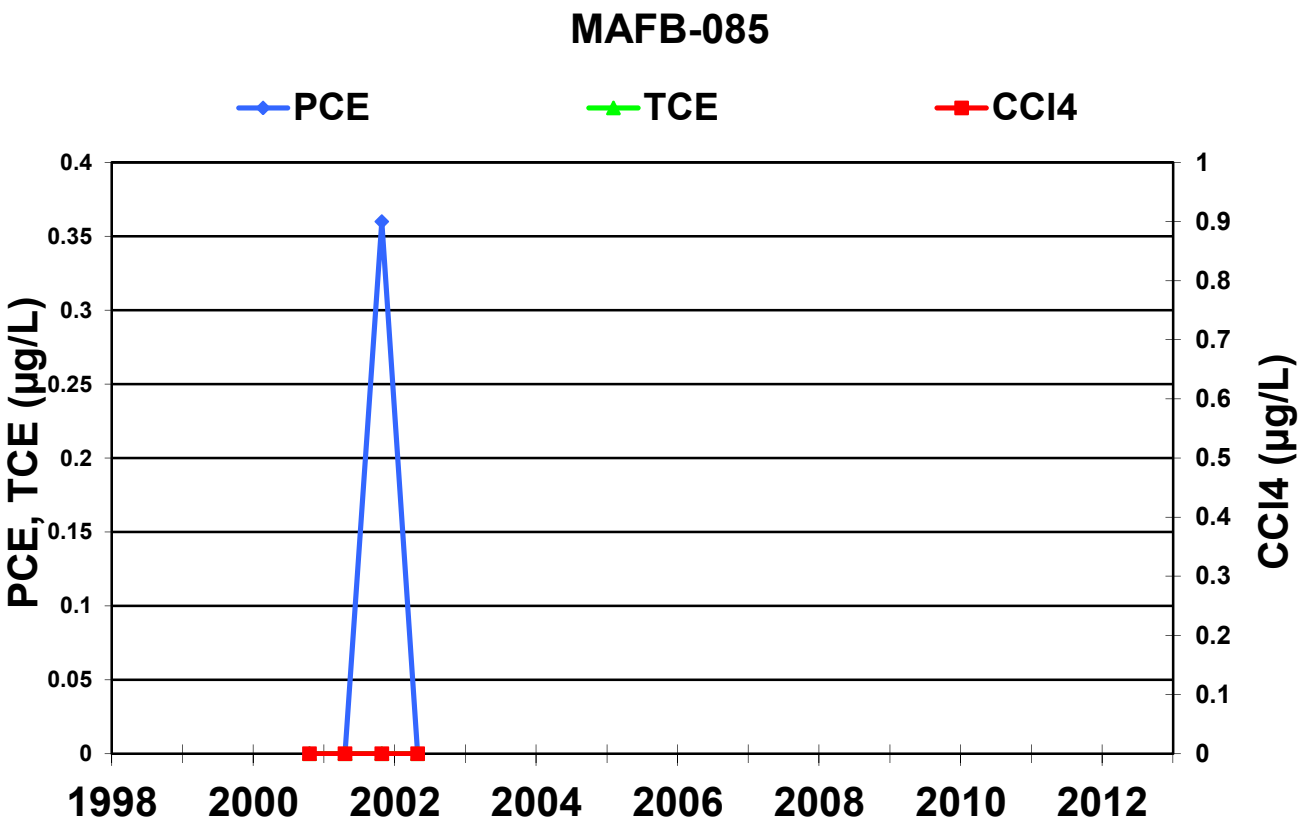

MAFB-073
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

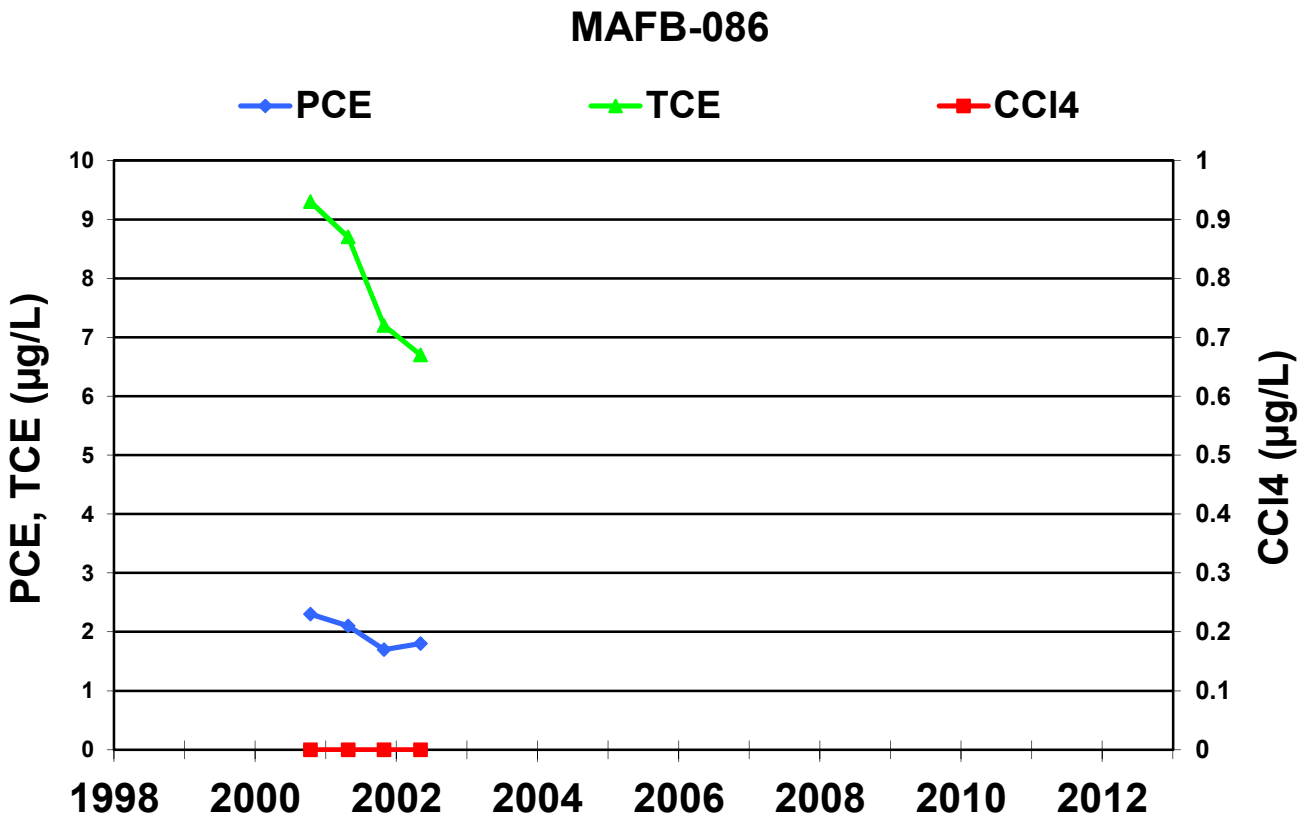

MAFB-075
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
1998
2000
2002
2004
2006
2008
2010
2012

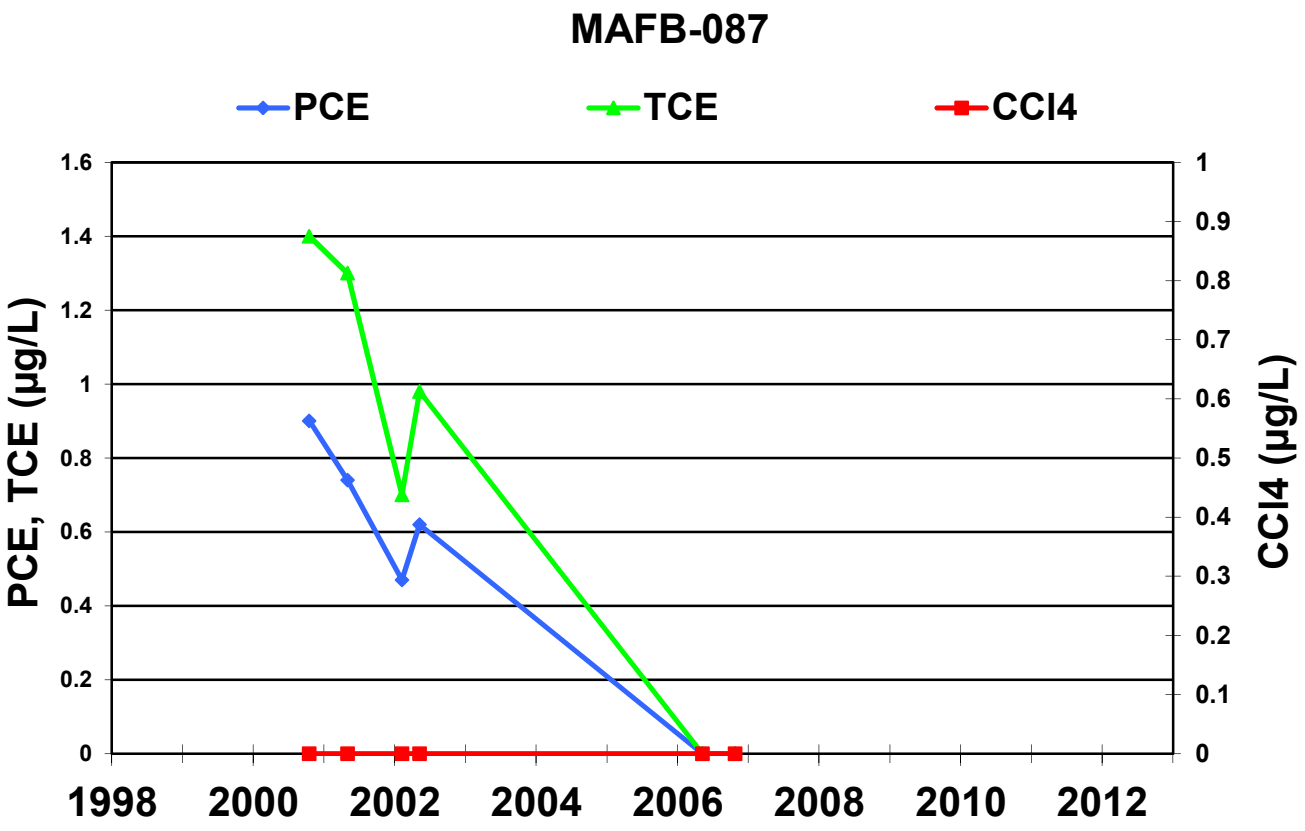

MAFB-077
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

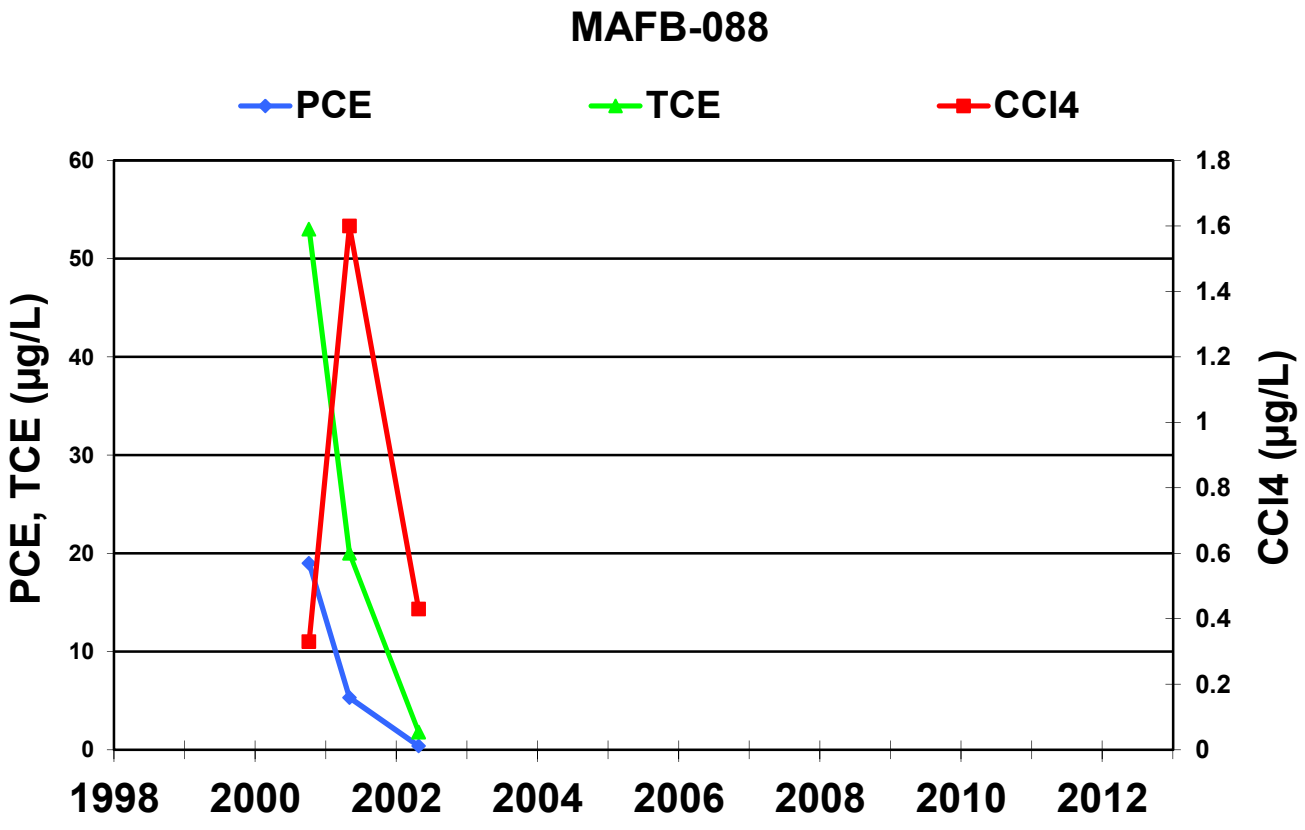

MAFB-078
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

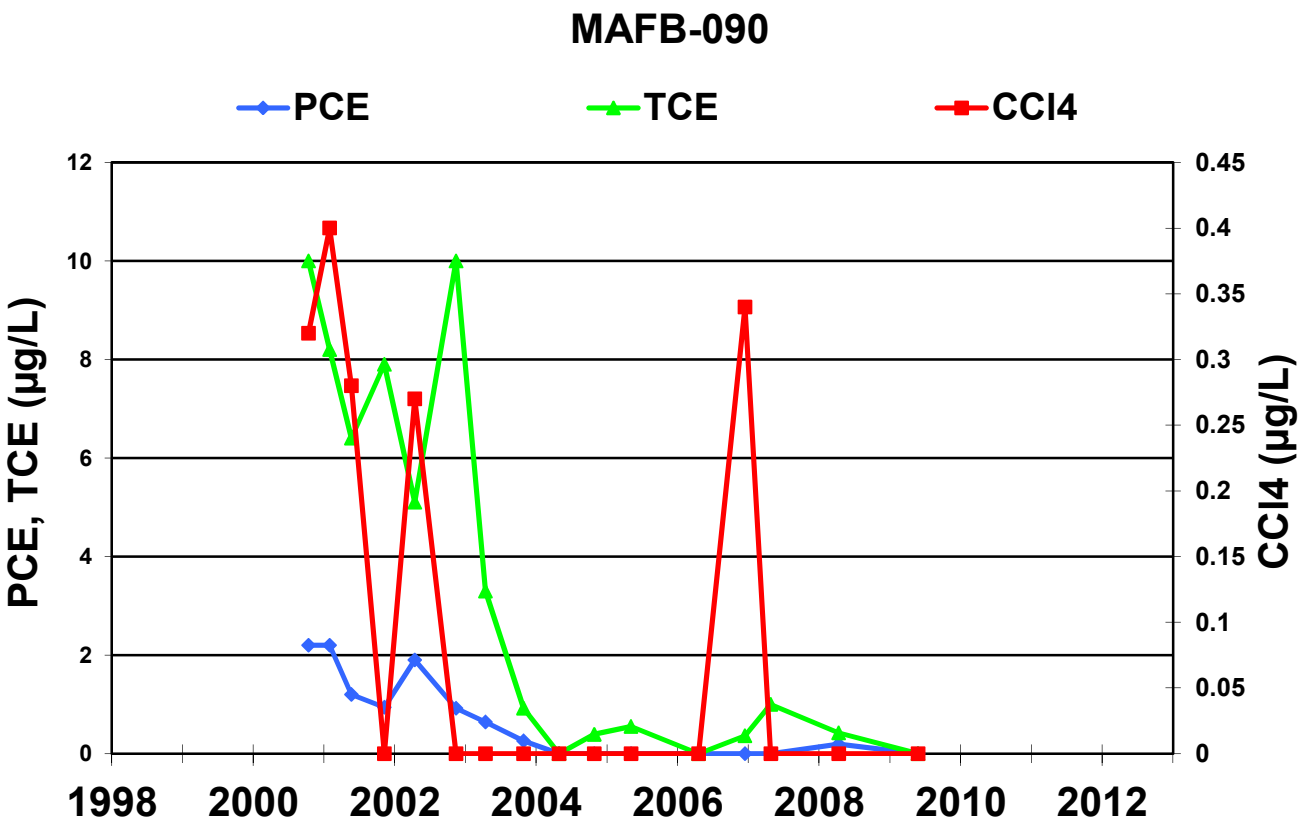

MAFB-083
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
7
6
5
4
3
2
1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

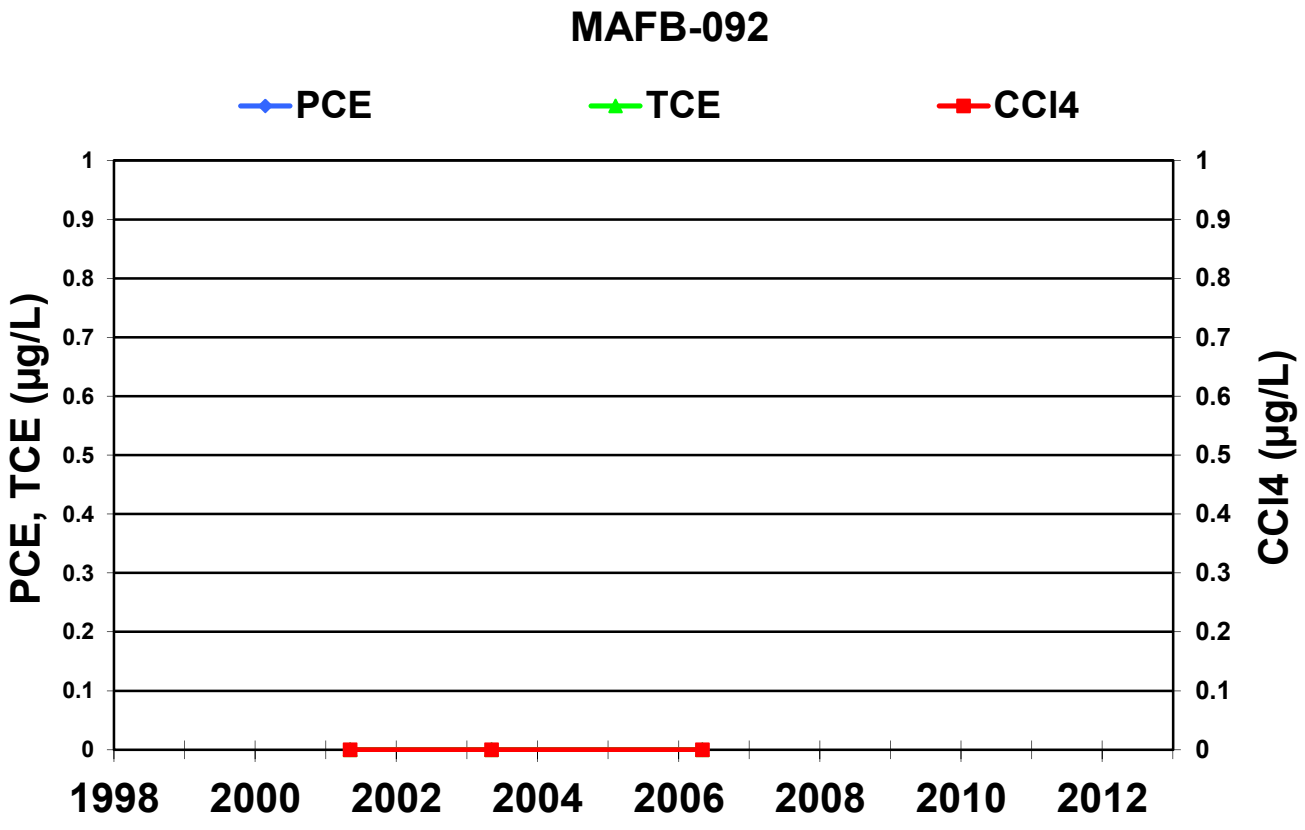

MAFB-085
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

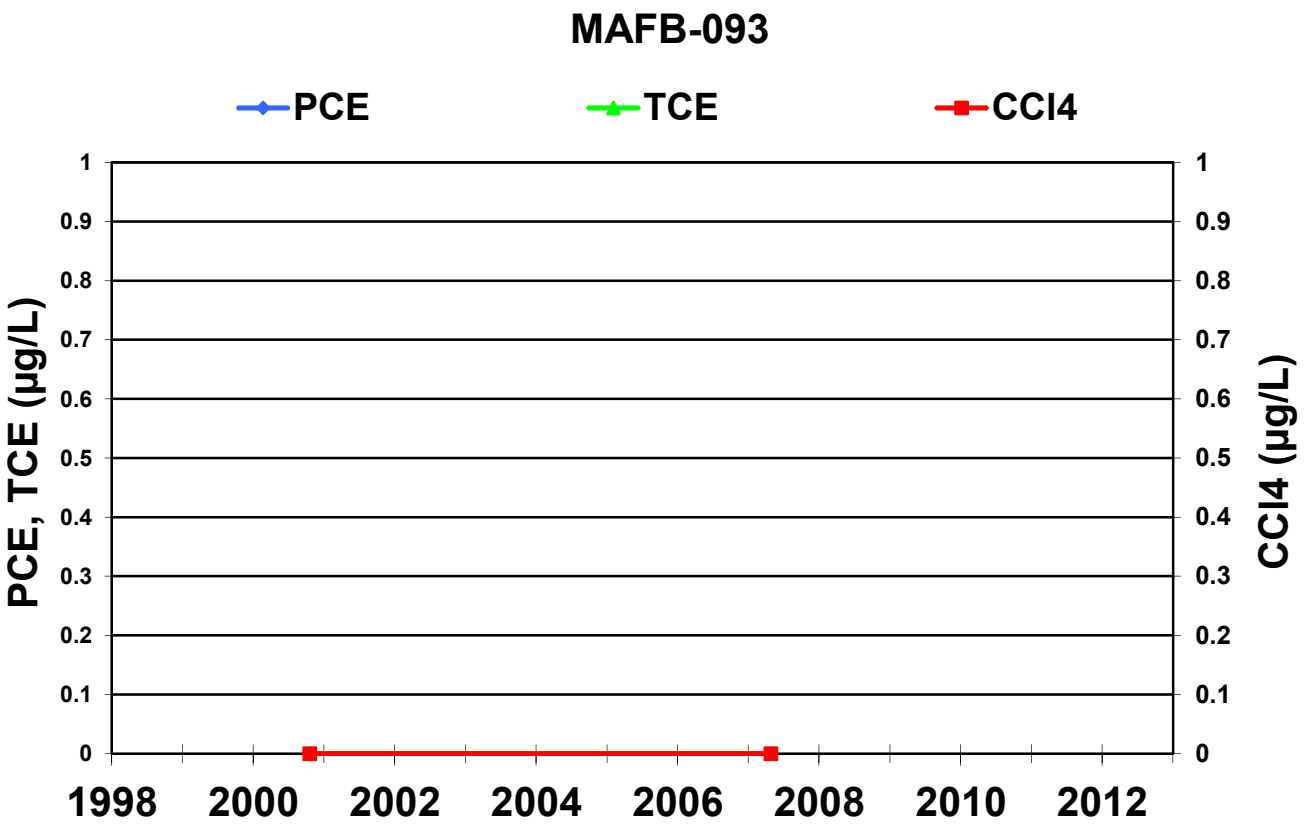

MAFB-086
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
10
9
8
7
6
5
4
3
2
1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

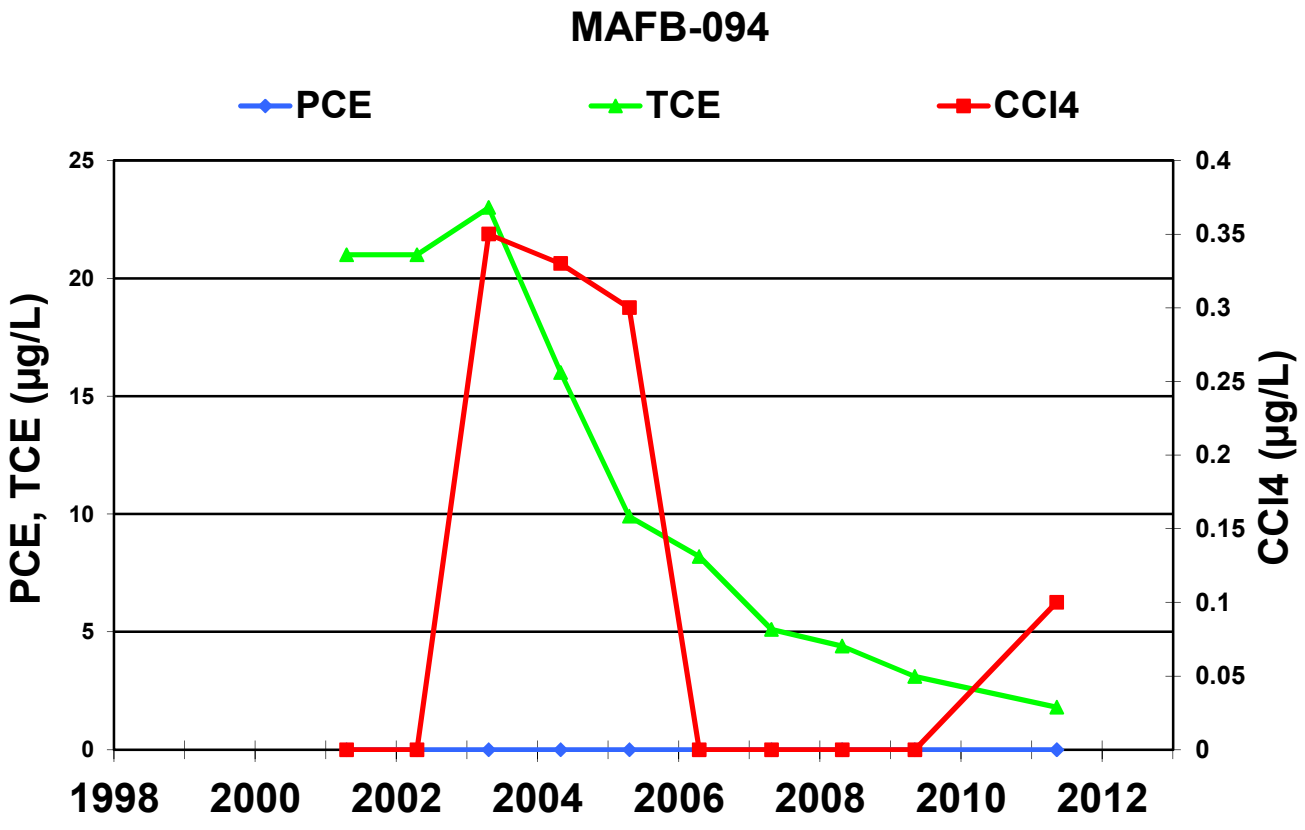

MAFB-087
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

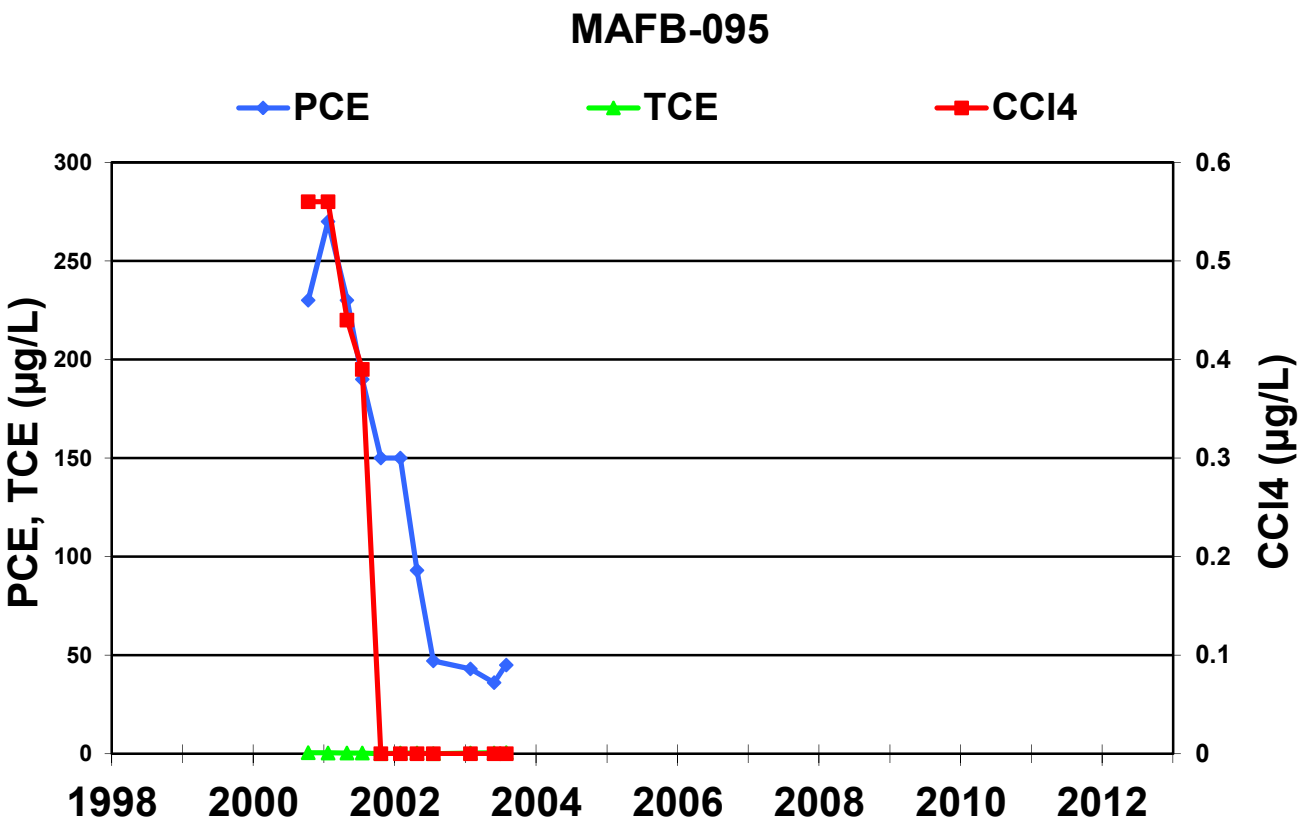

MAFB-088
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
60
50
40
30
20
10
0
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

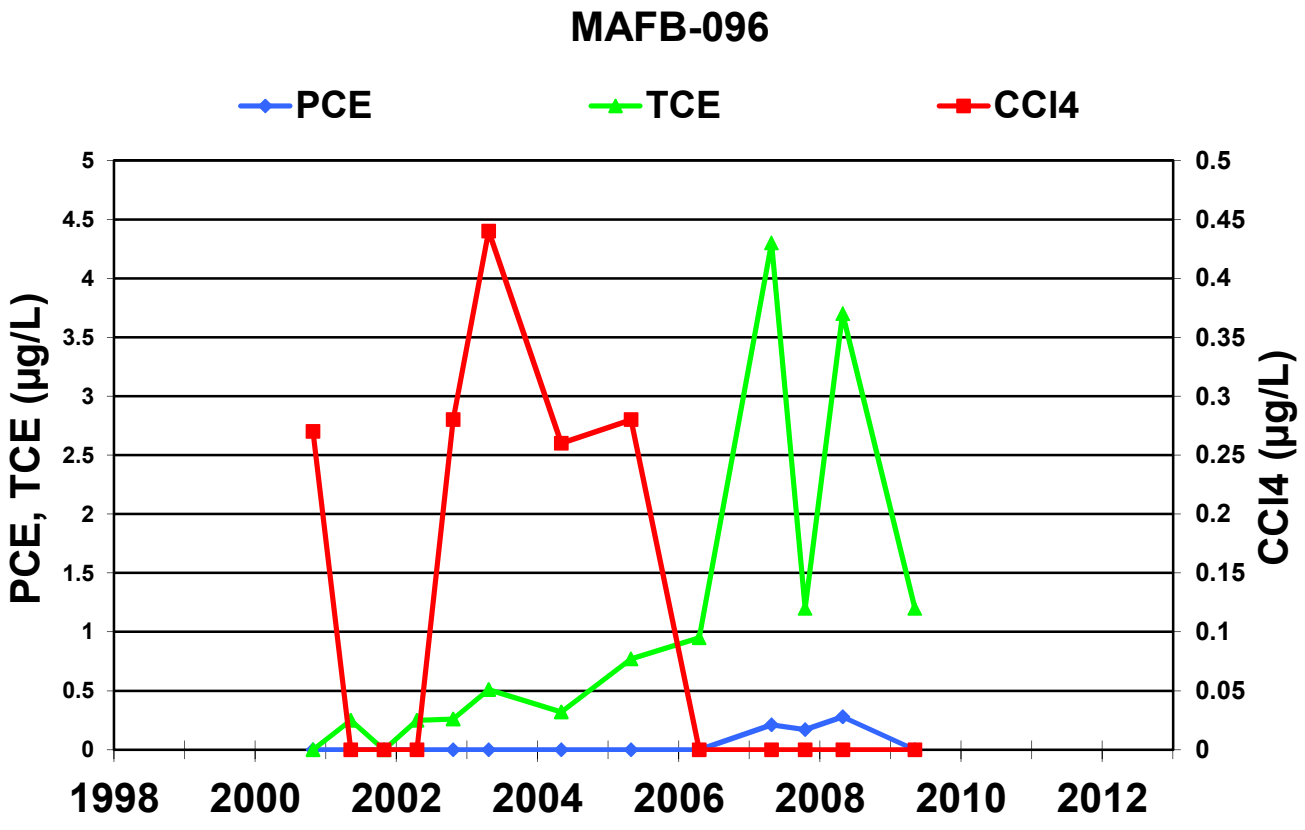

MAFB-090
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
12
10
8
6
4
2
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

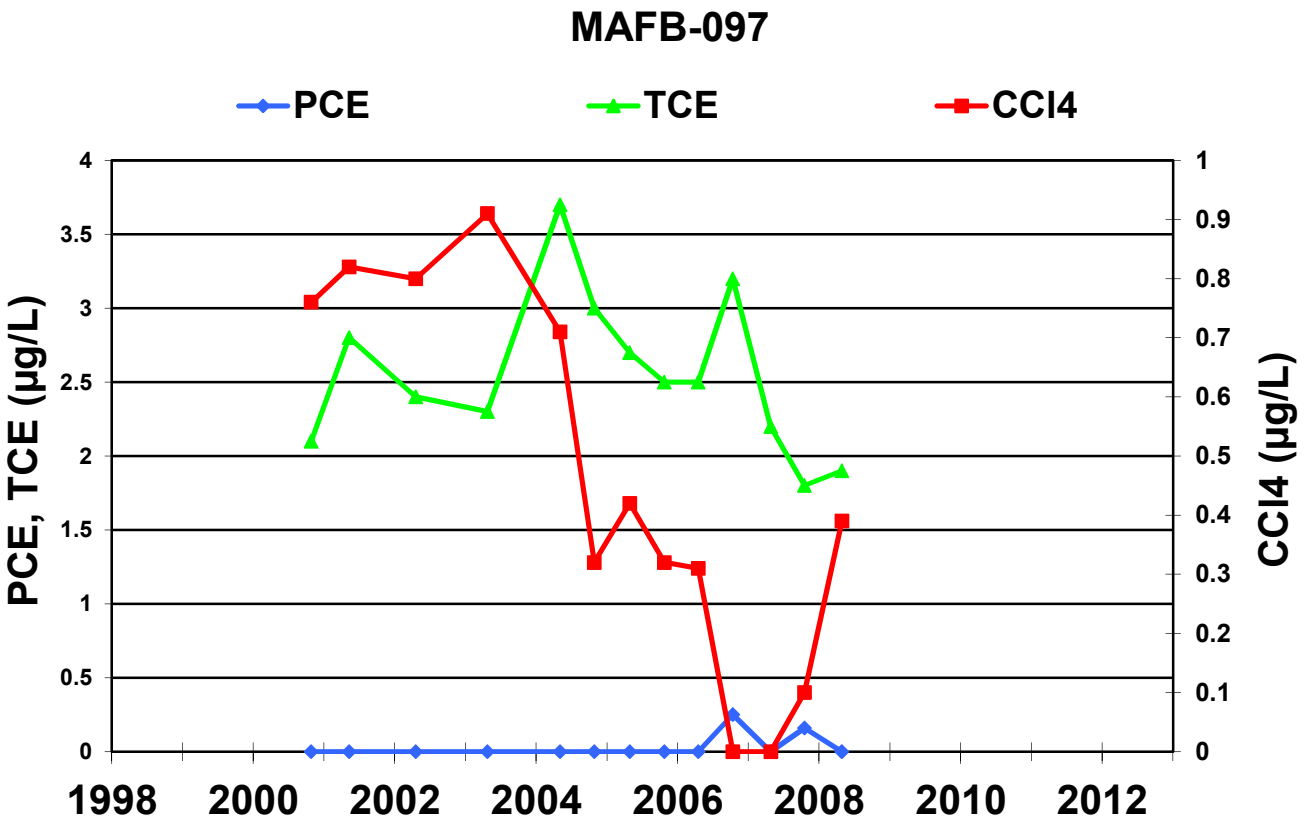

MAFB-092
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

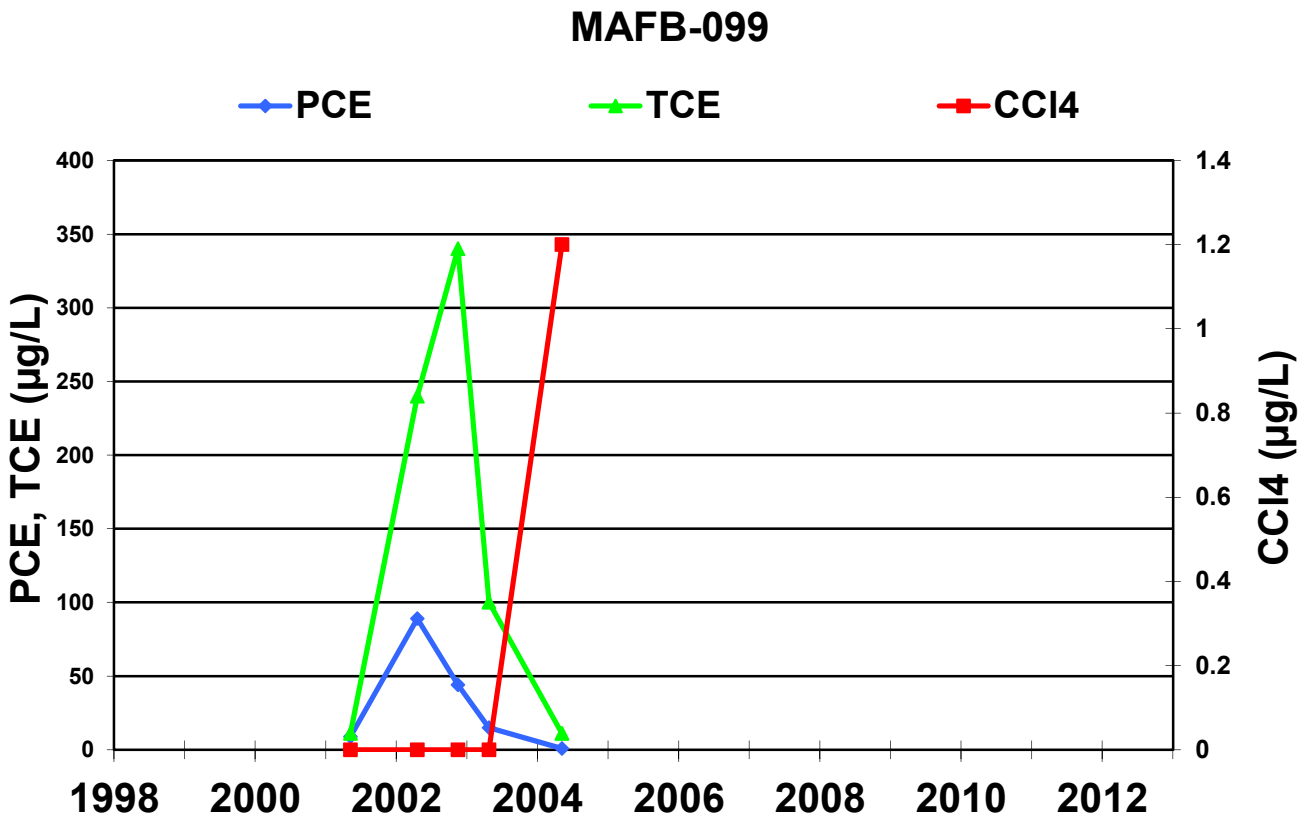

MAFB-093
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

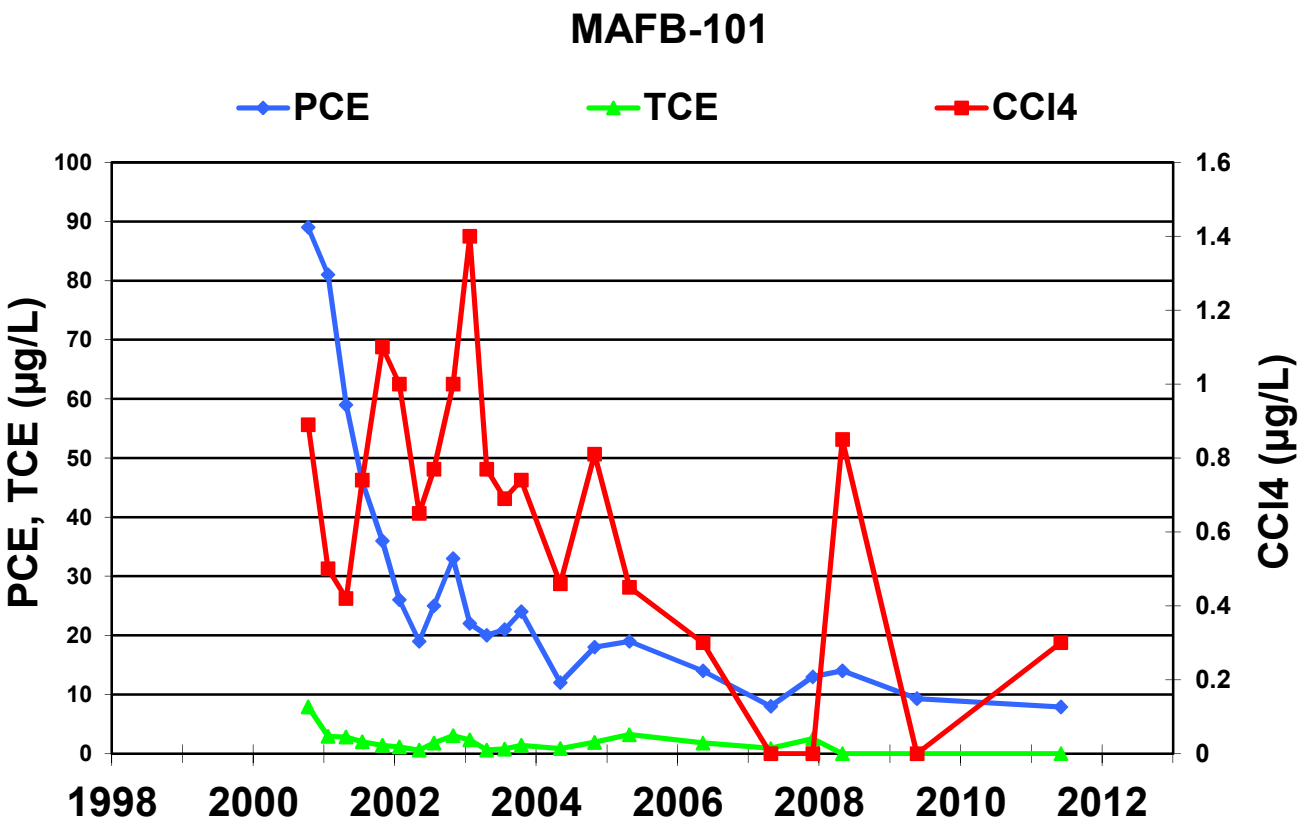

MAFB-094
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
25
20
15
10
5
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

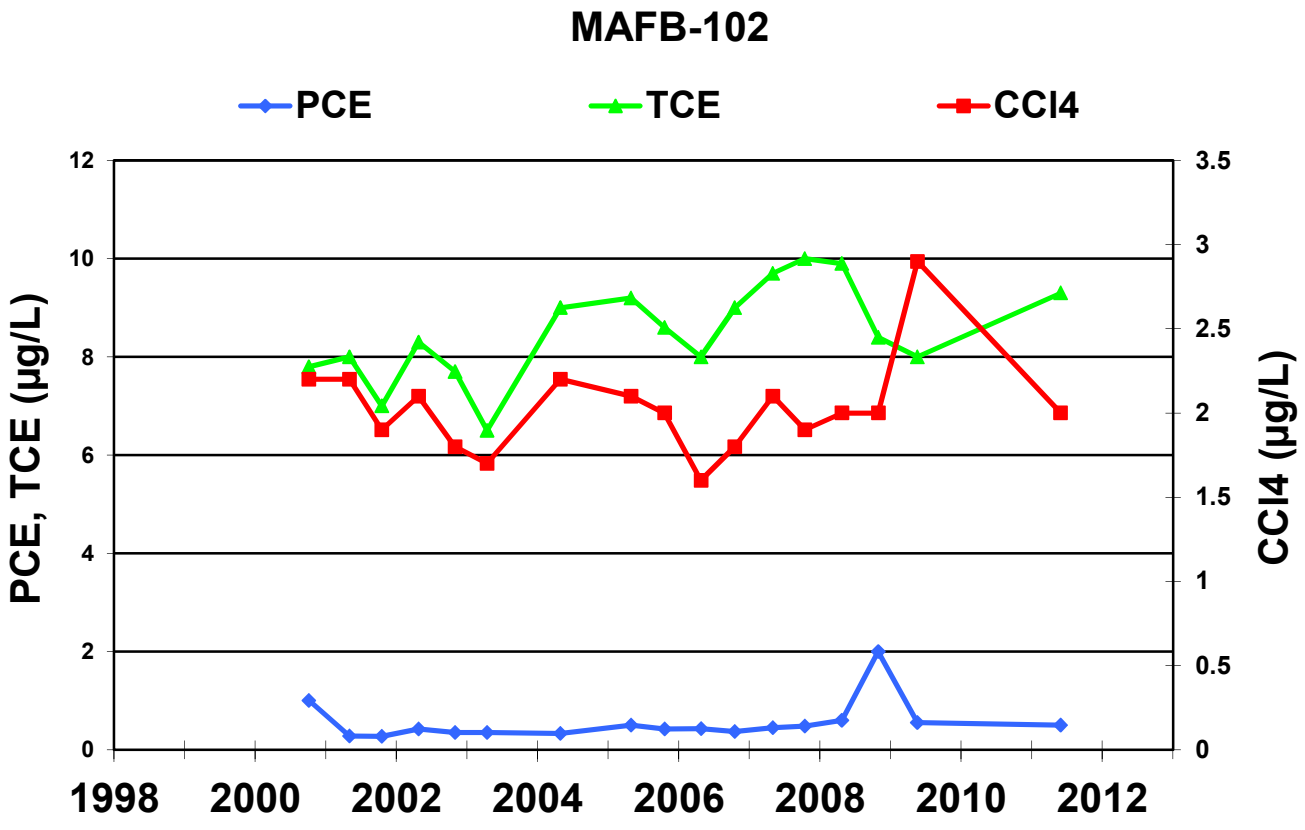

MAFB-095
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
300
250
200
150
100
50
0
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

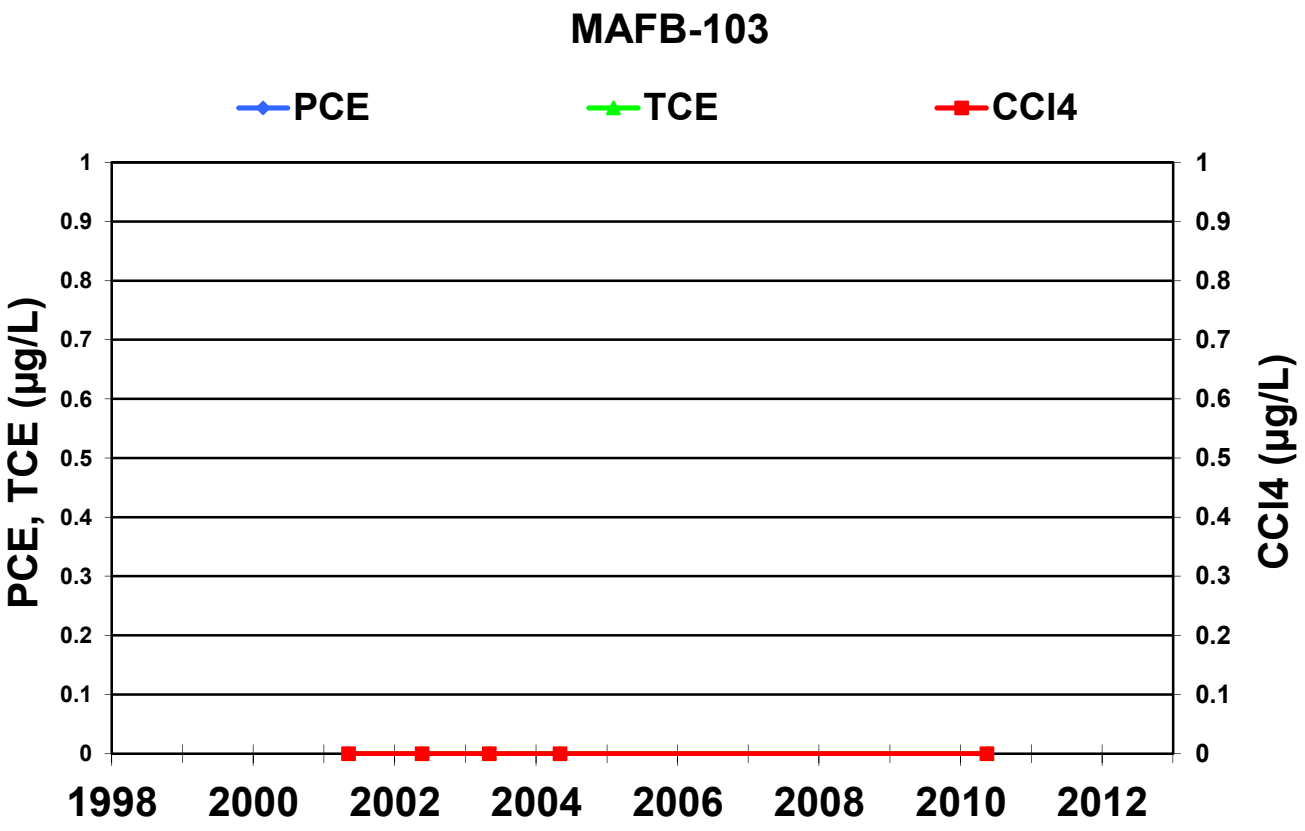

MAFB-096
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

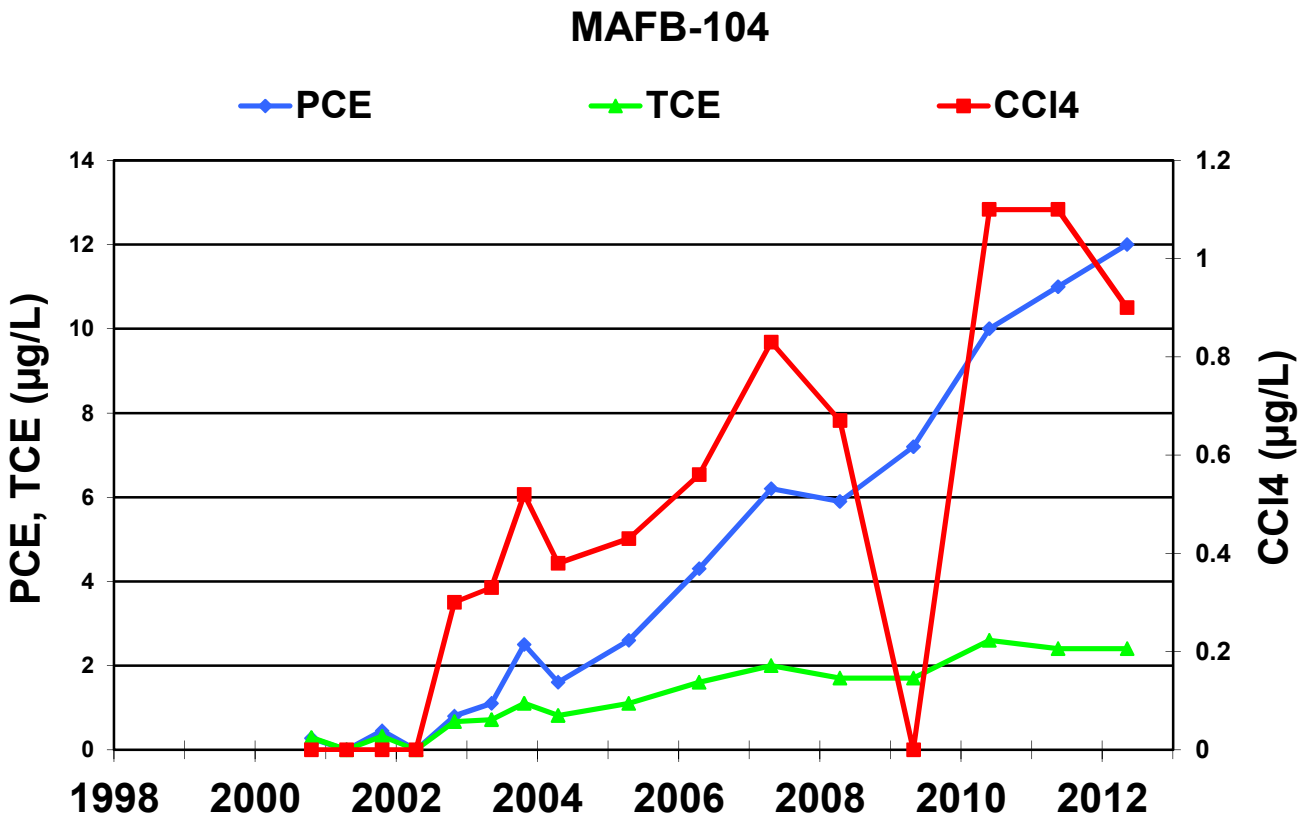

MAFB-097
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

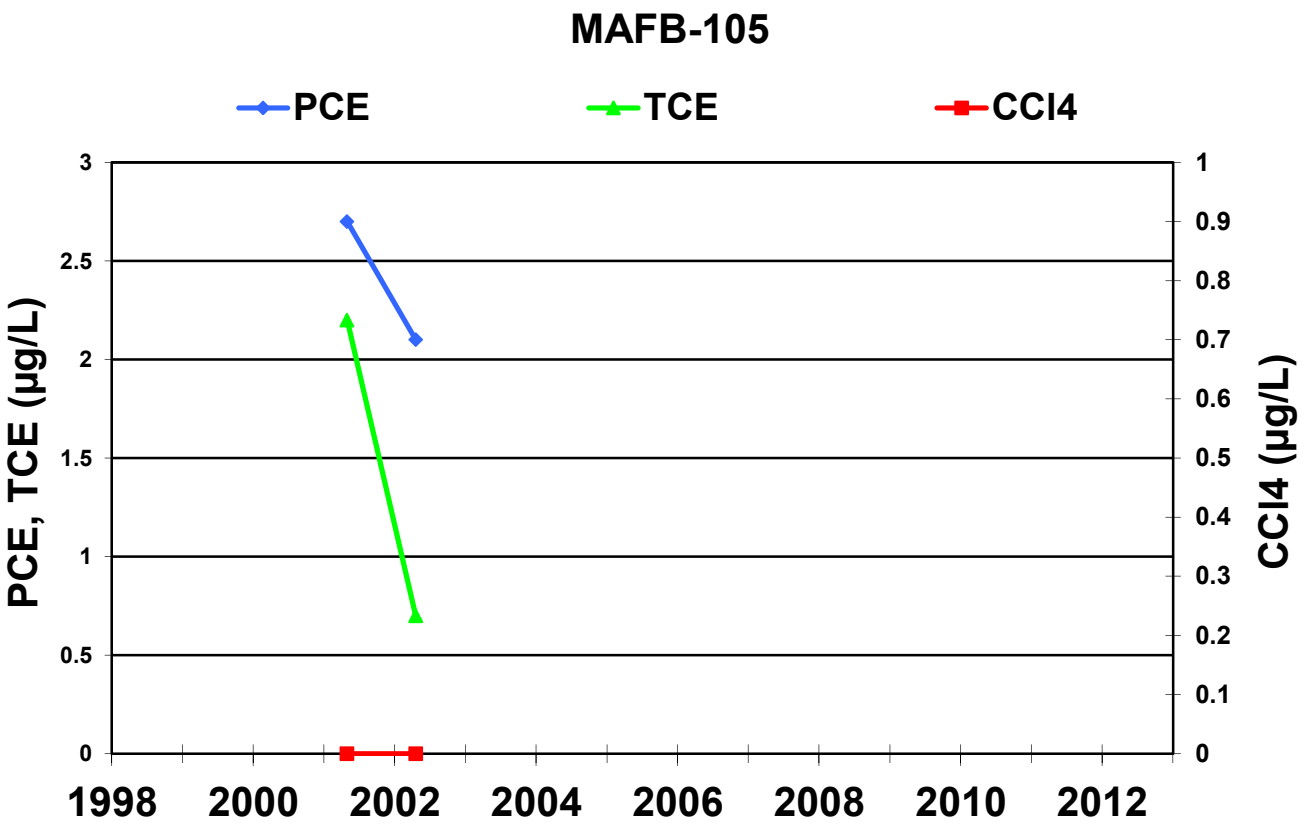

MAFB-099
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
400
350
300
250
200
150
100
50
0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

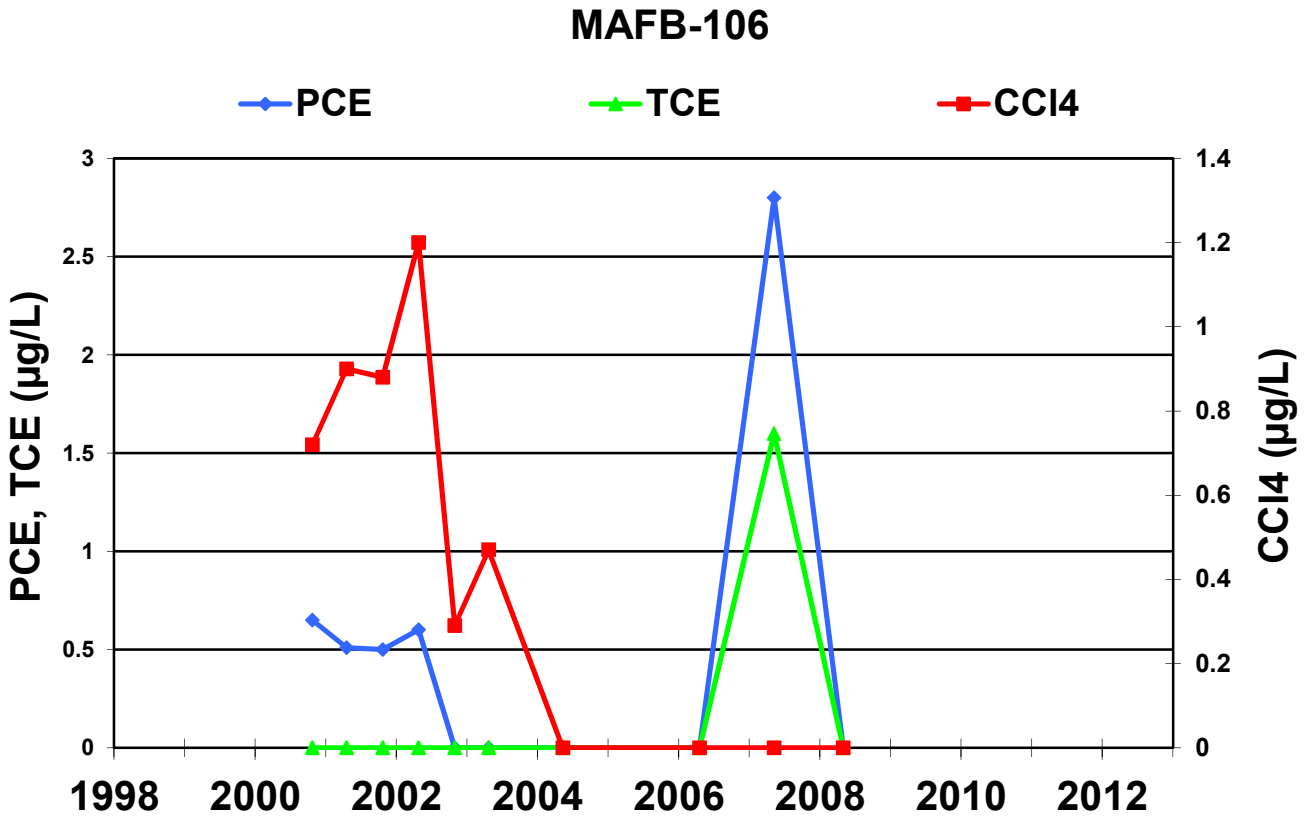

MAFB-101
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
100
90
80
70
60
50
40
30
20
10
0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

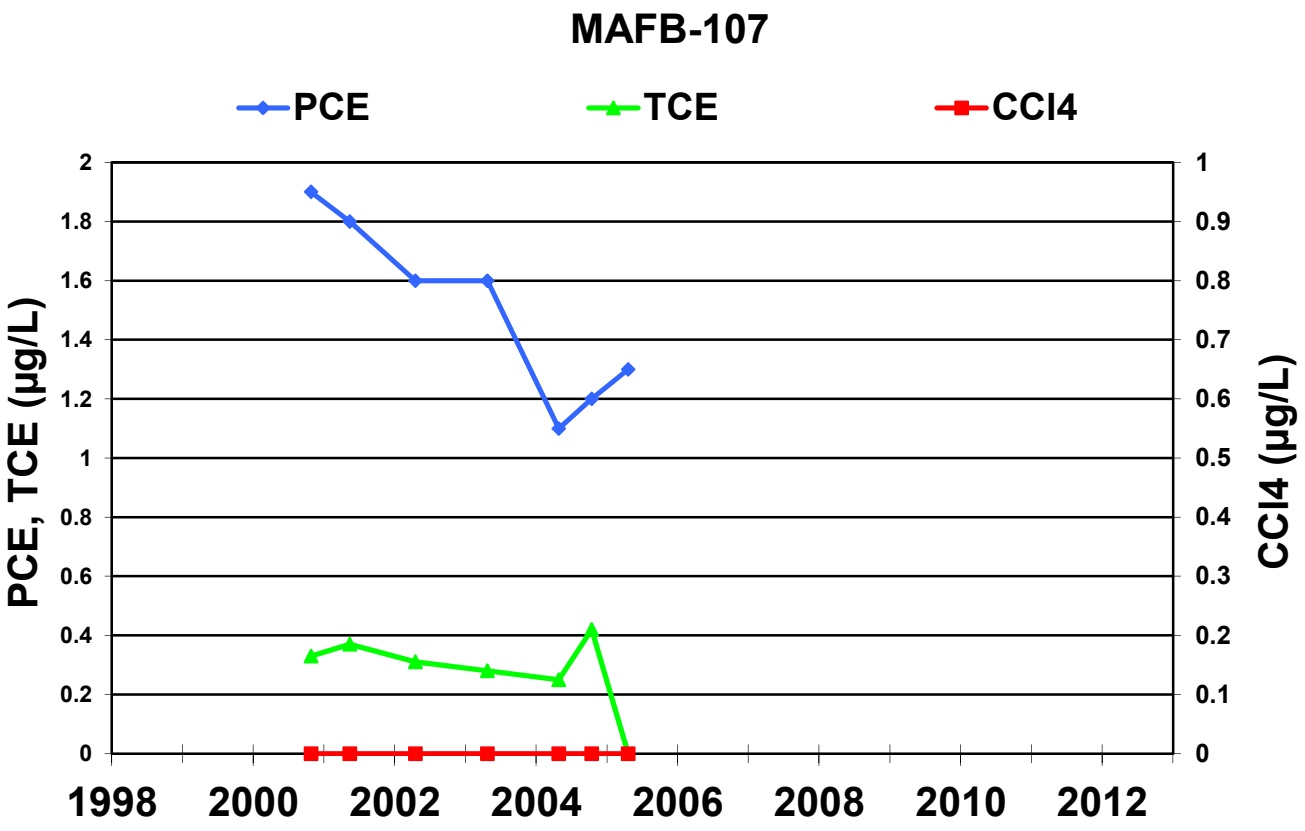

MAFB-102
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
12
10
8
6
4
2
0
3.5
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

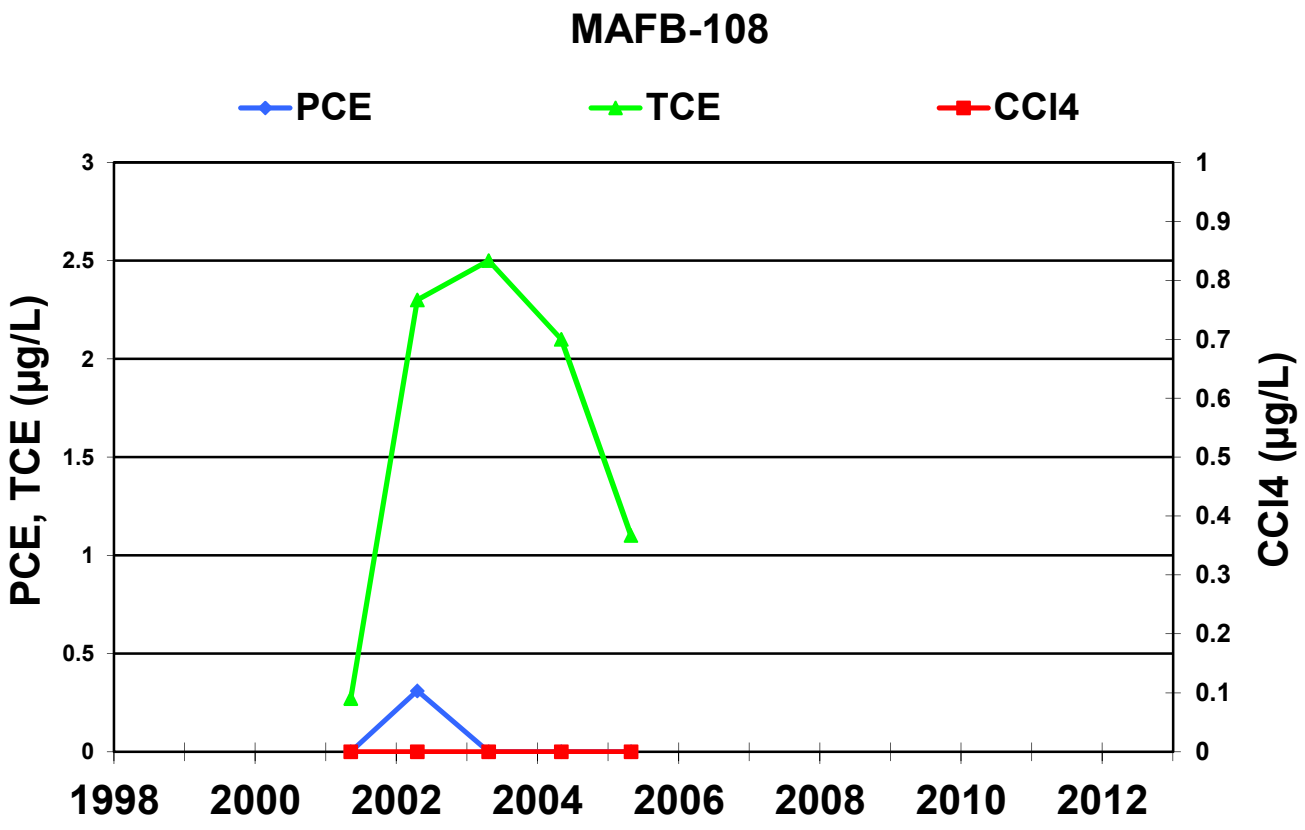

MAFB-103
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

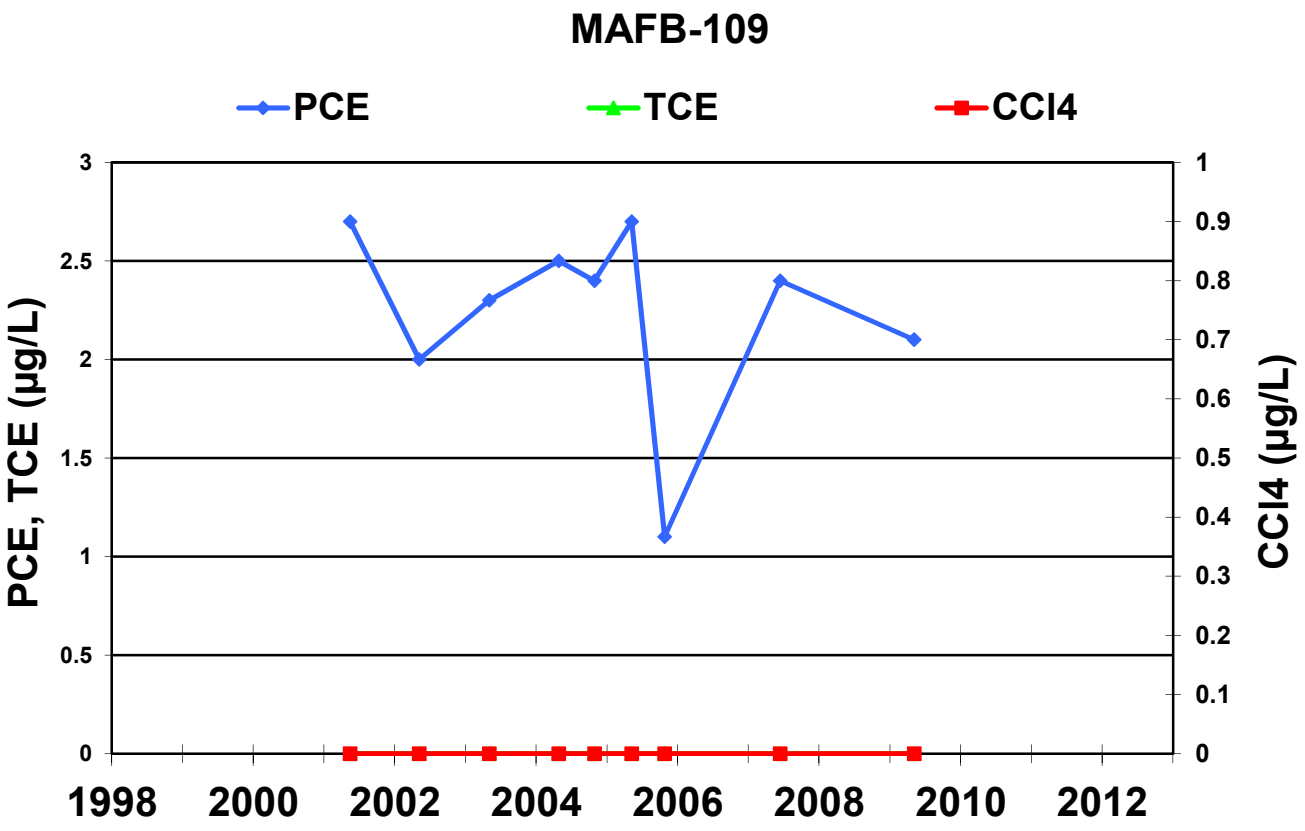

MAFB-104
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
14
12
10
8
6
4
2
0
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

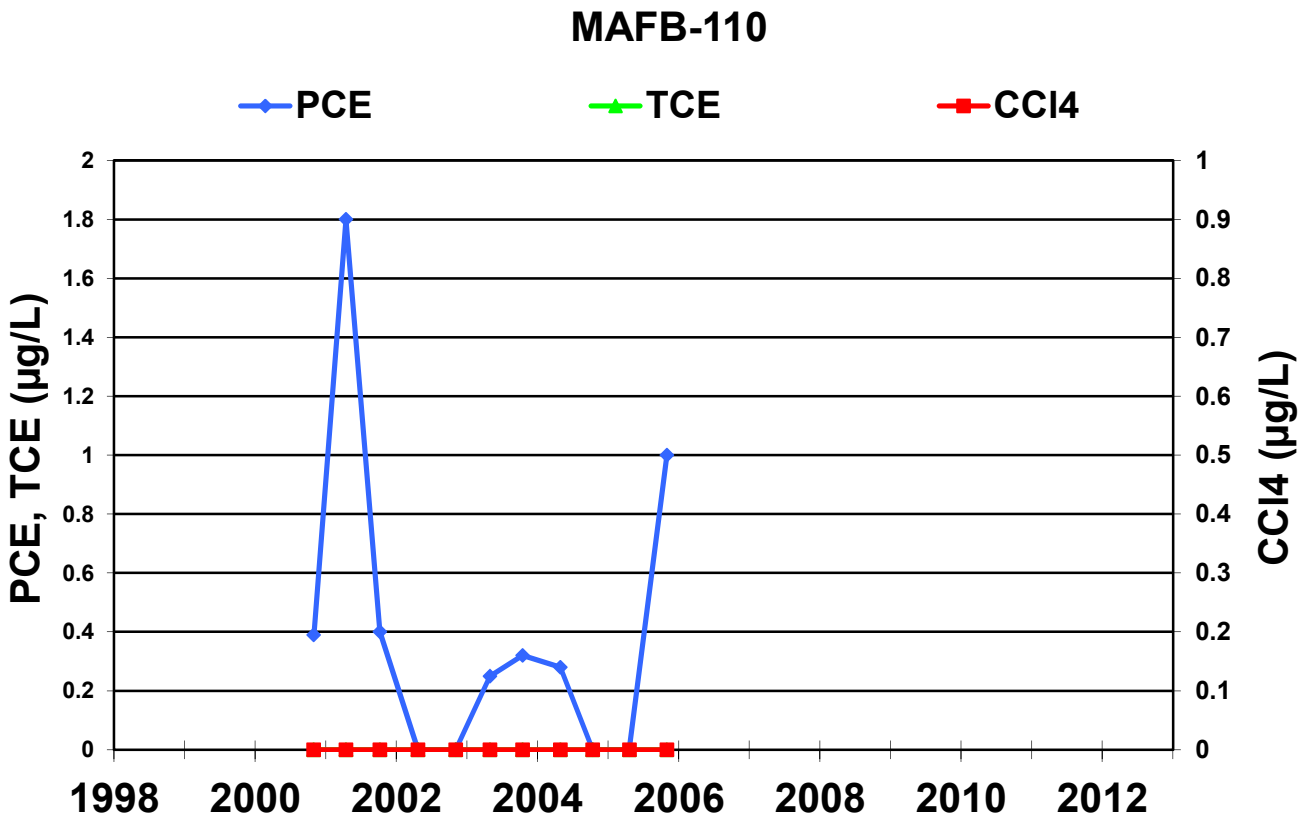

MAFB-105
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

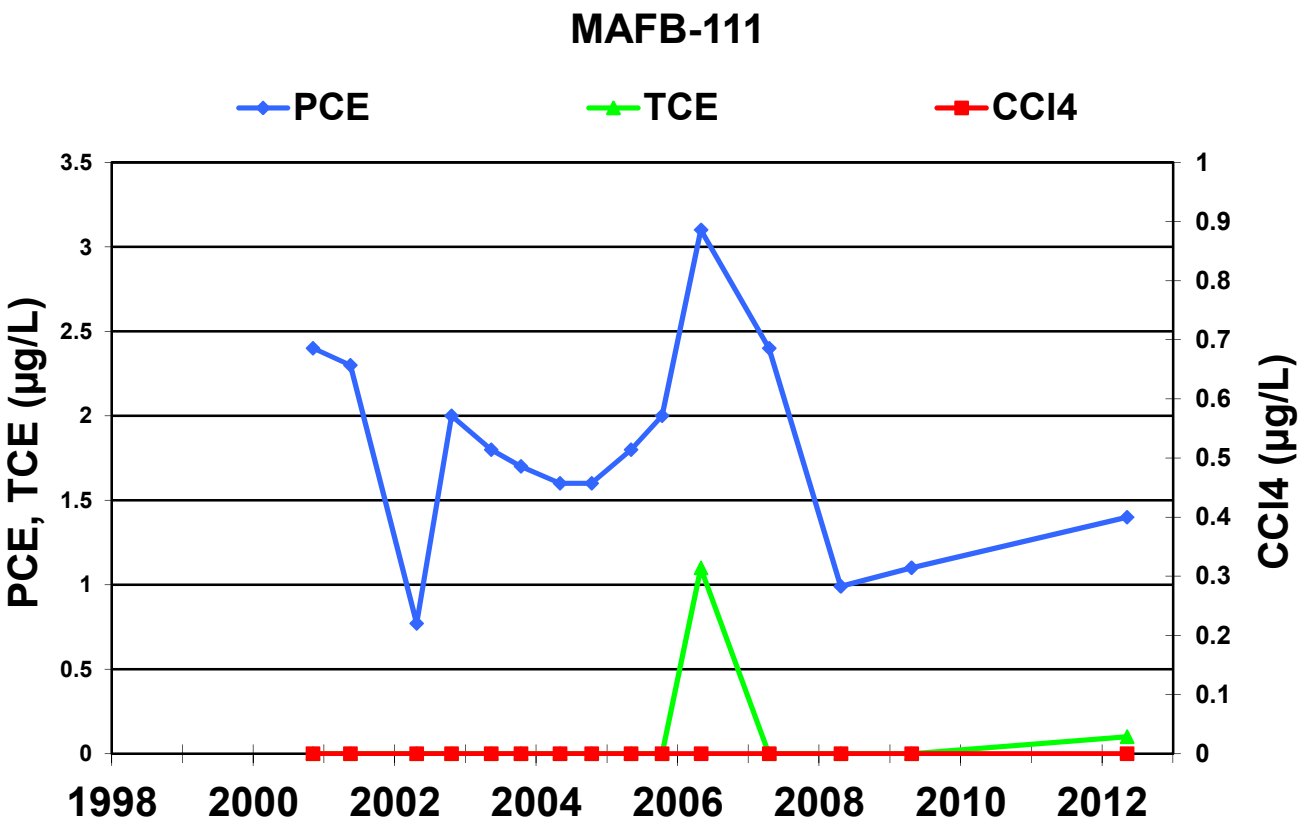

MAFB-106
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3
2.5
2
1.5
1
0.5
0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

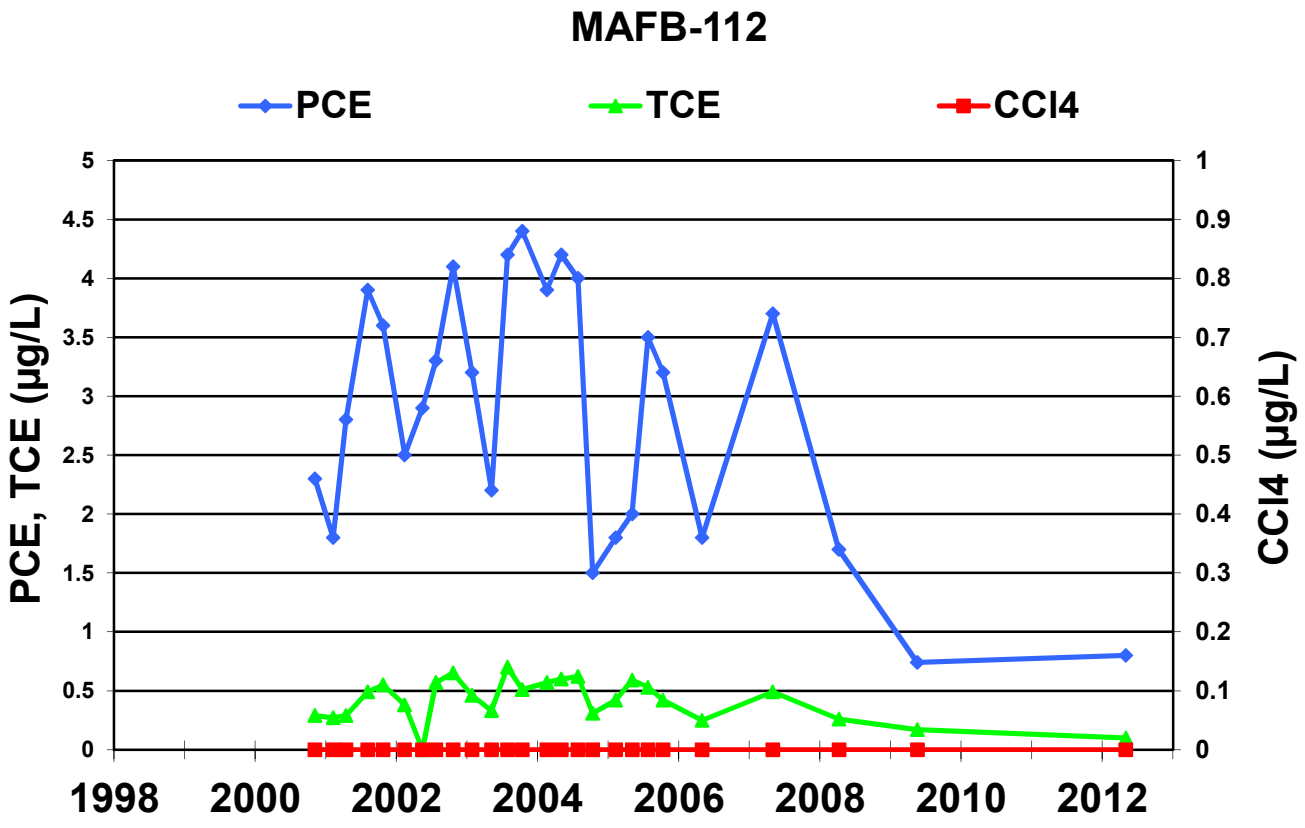

MAFB-107
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

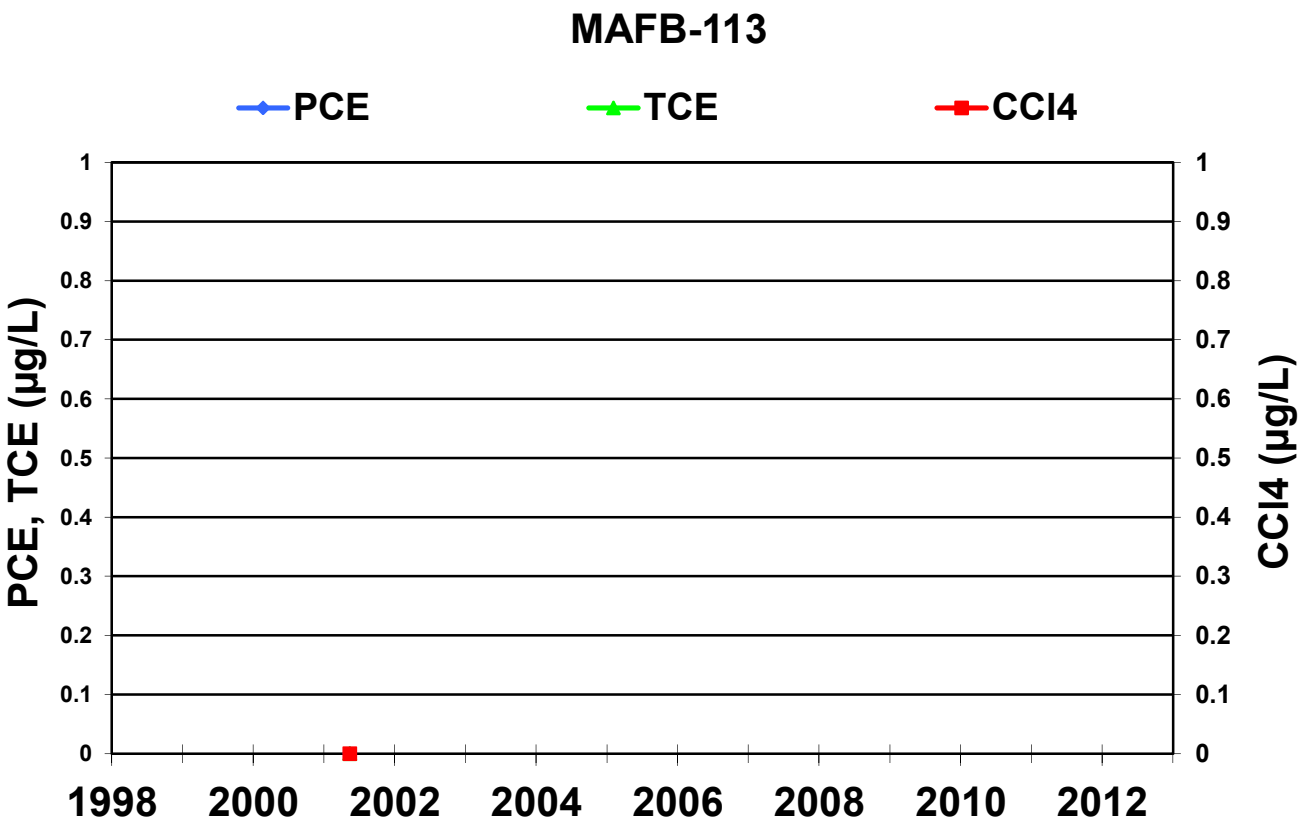

MAFB-108
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

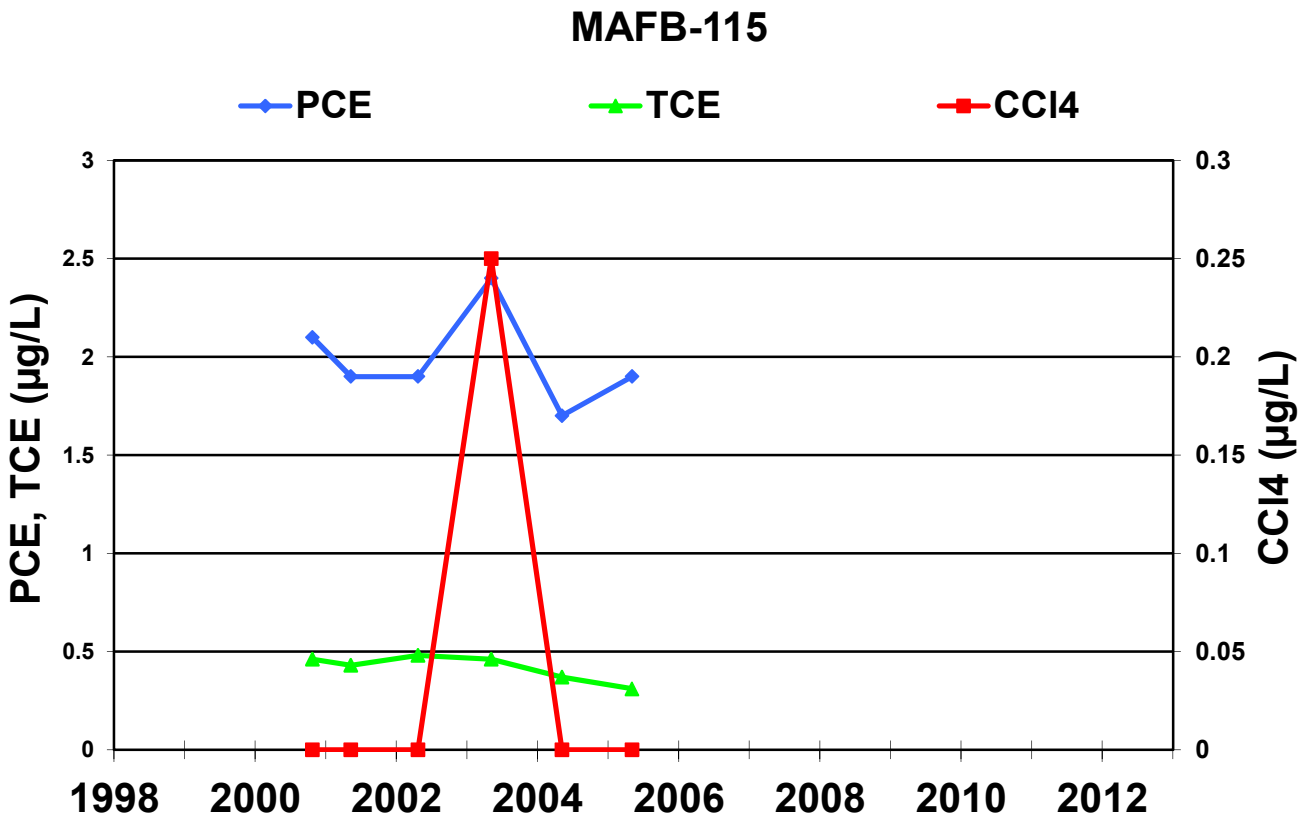

MAFB-109
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

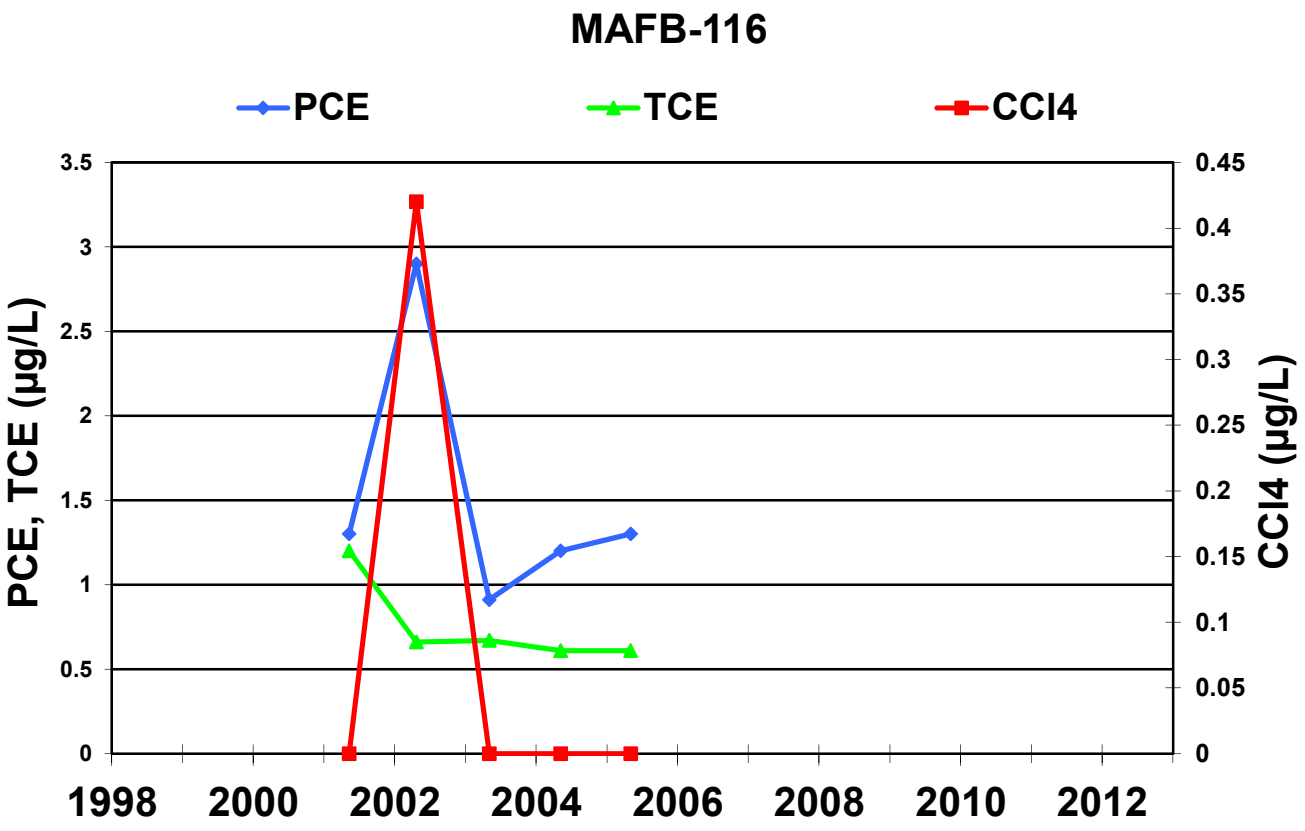

MAFB-110
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

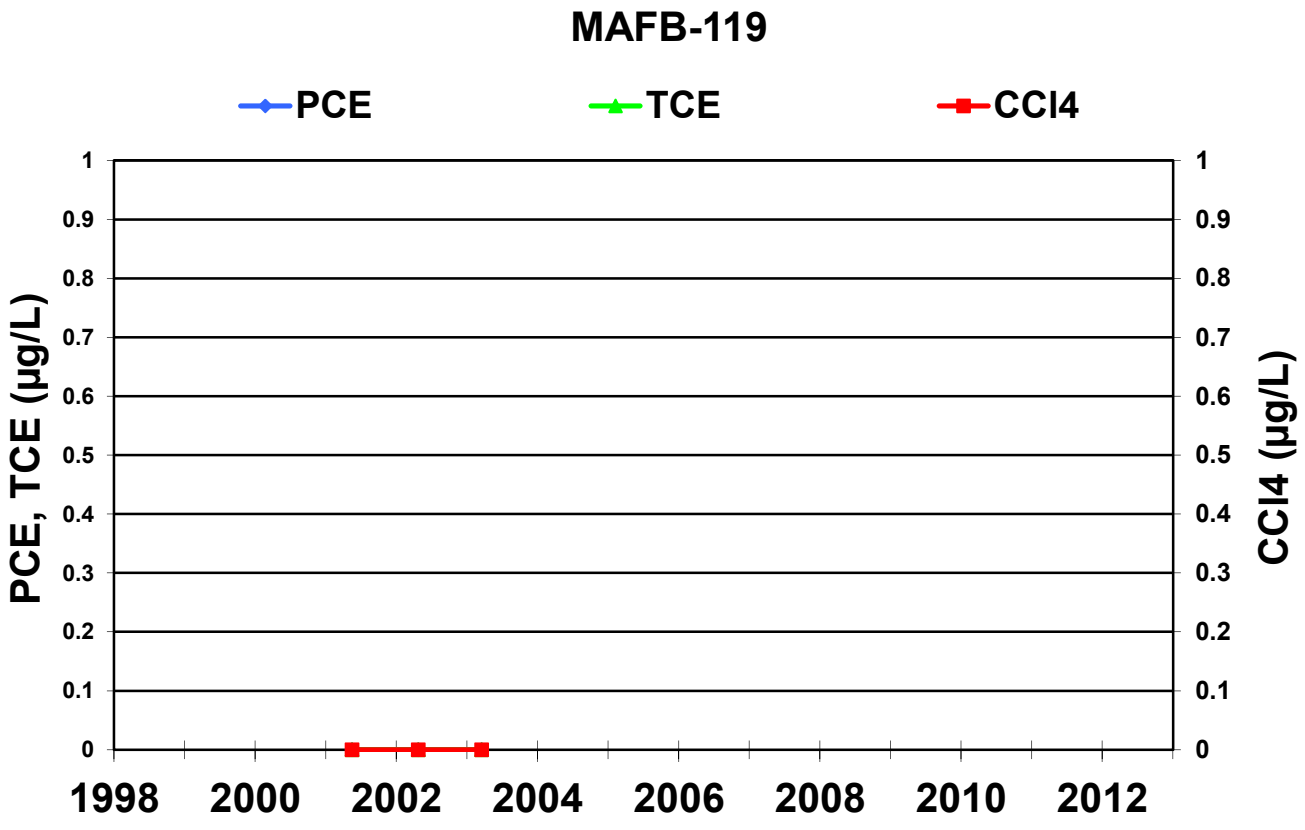

MAFB-111
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

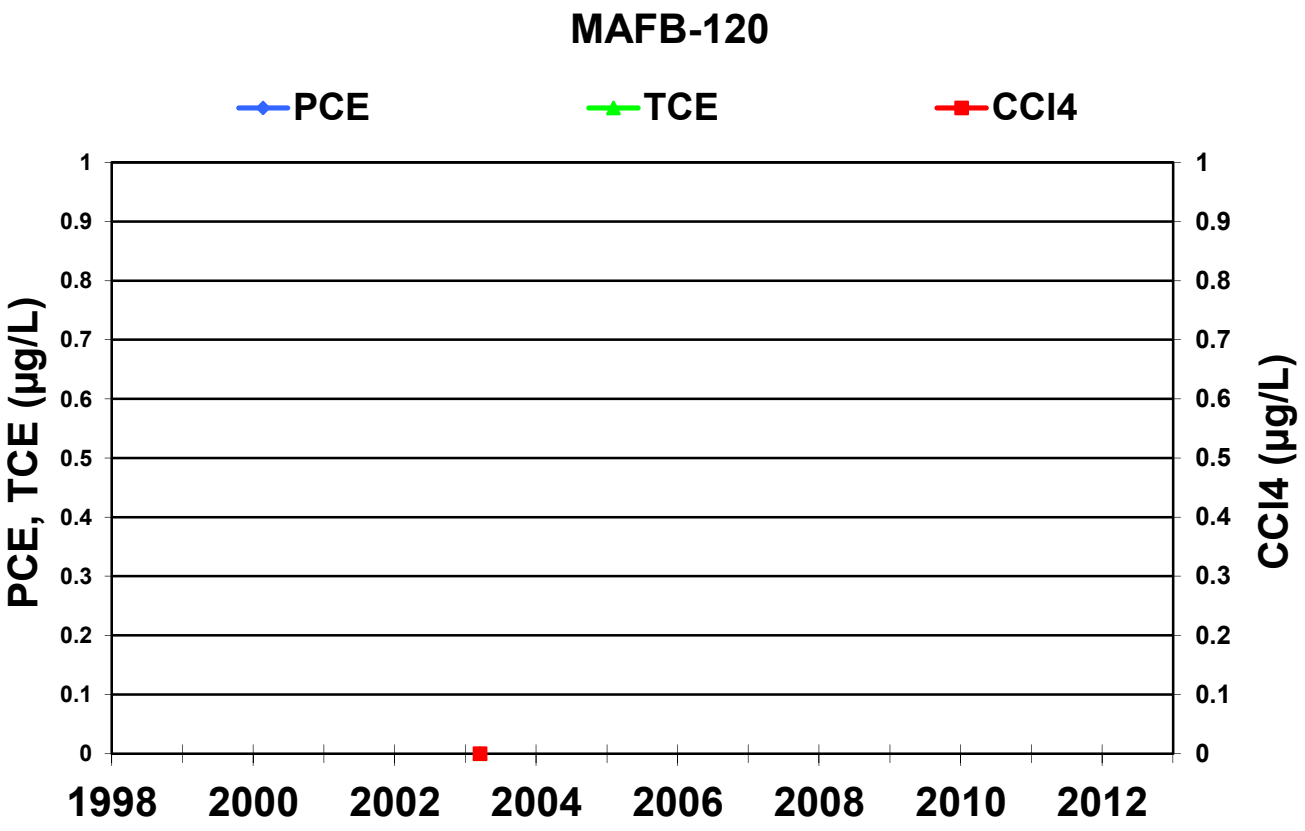

MAFB-112
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

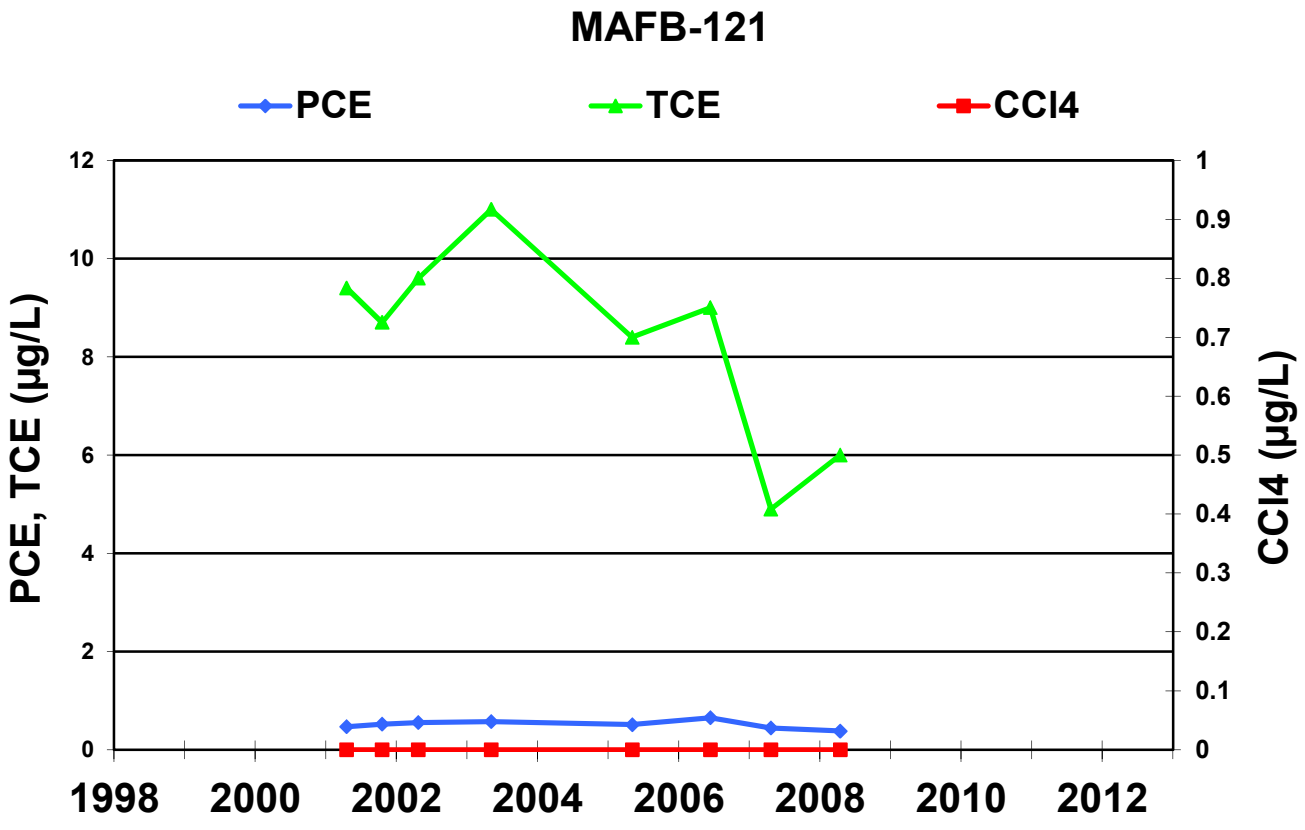

MAFB-113
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

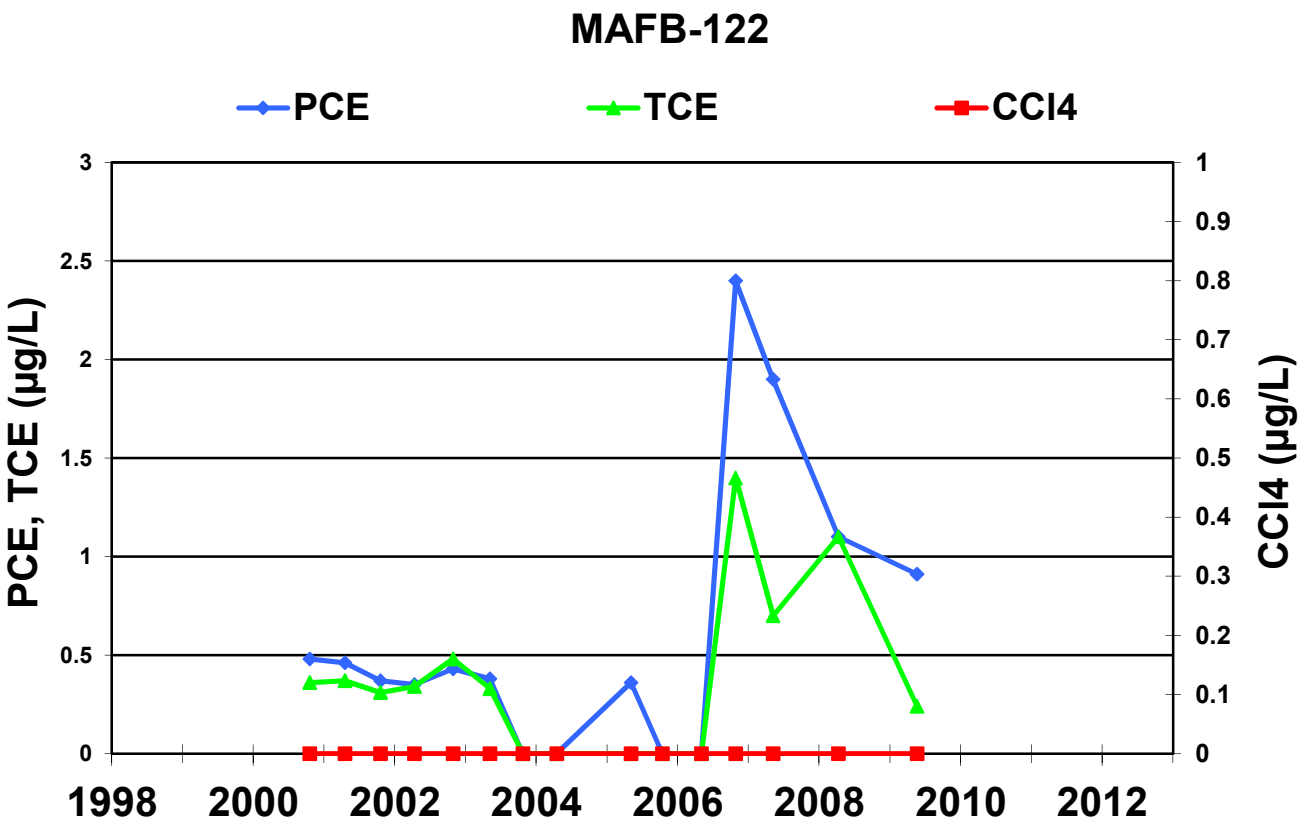

MAFB-115
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3
2.5
2
1.5
1
0.5
0
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

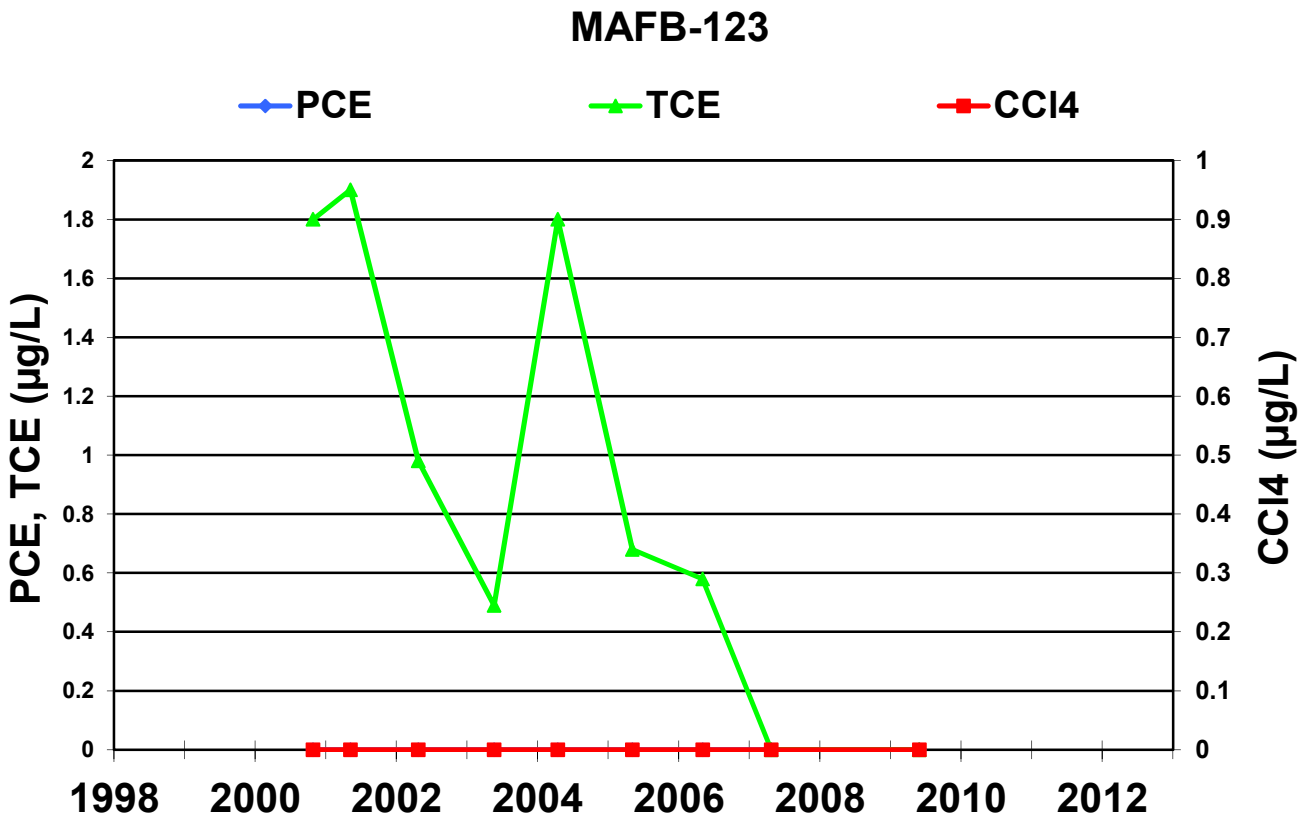

MAFB-116
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3.5
3
2.5
2
1.5
1
0.5
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

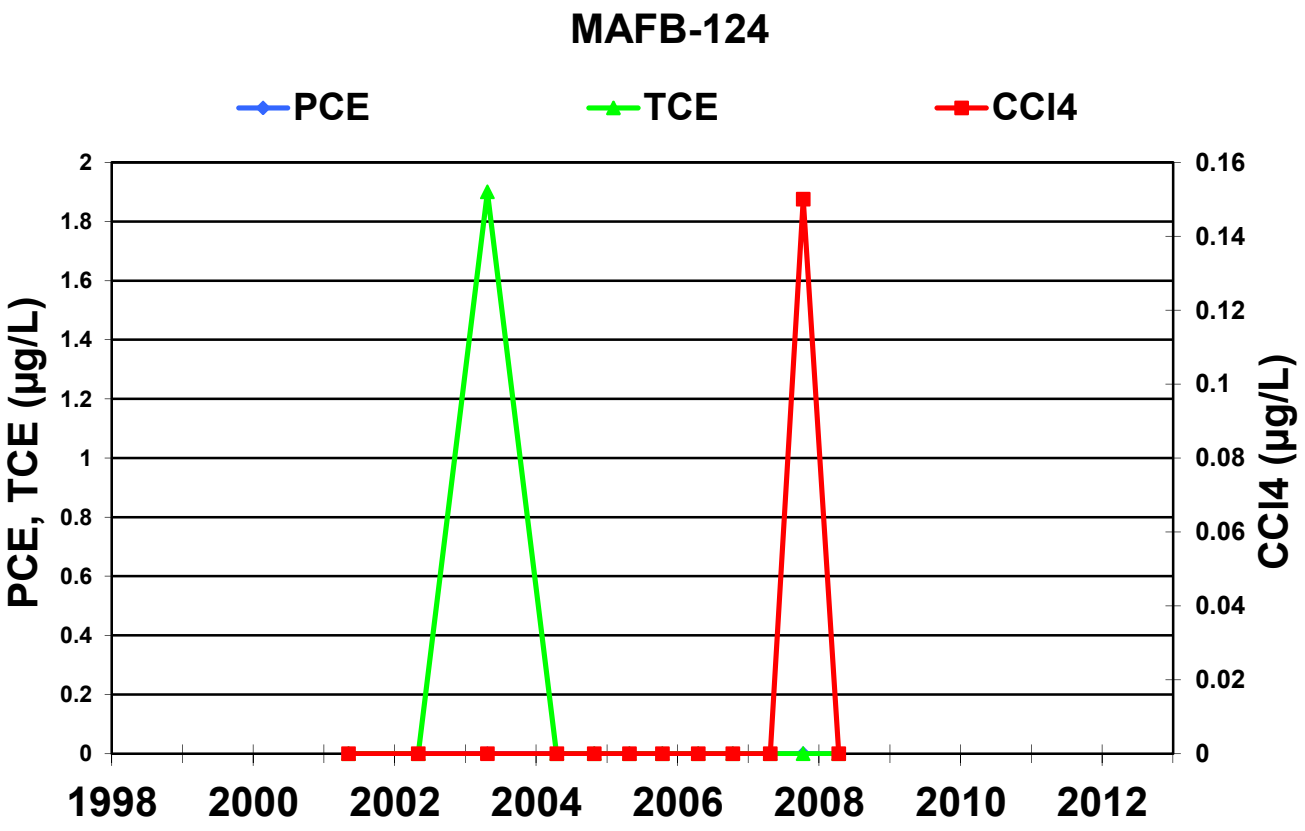

MAFB-119
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

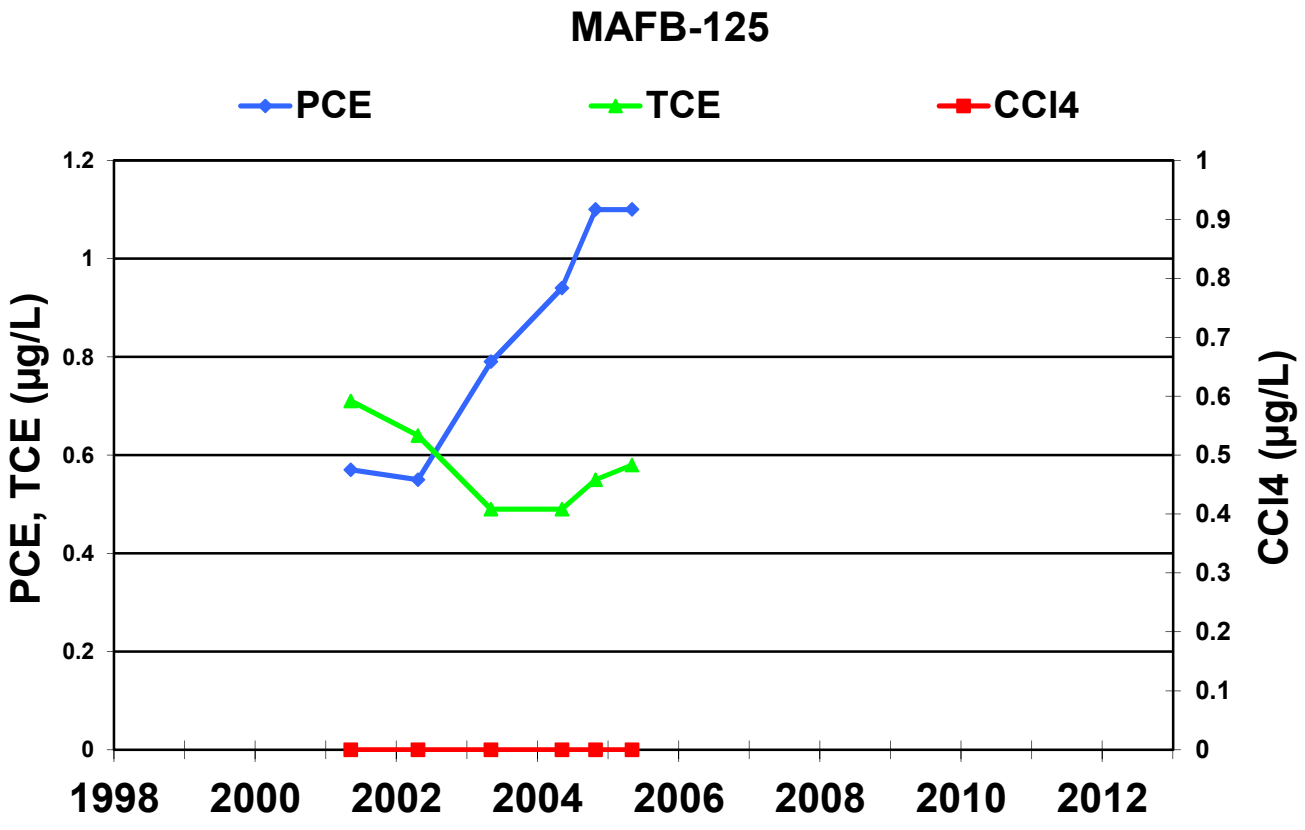

MAFB-120
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

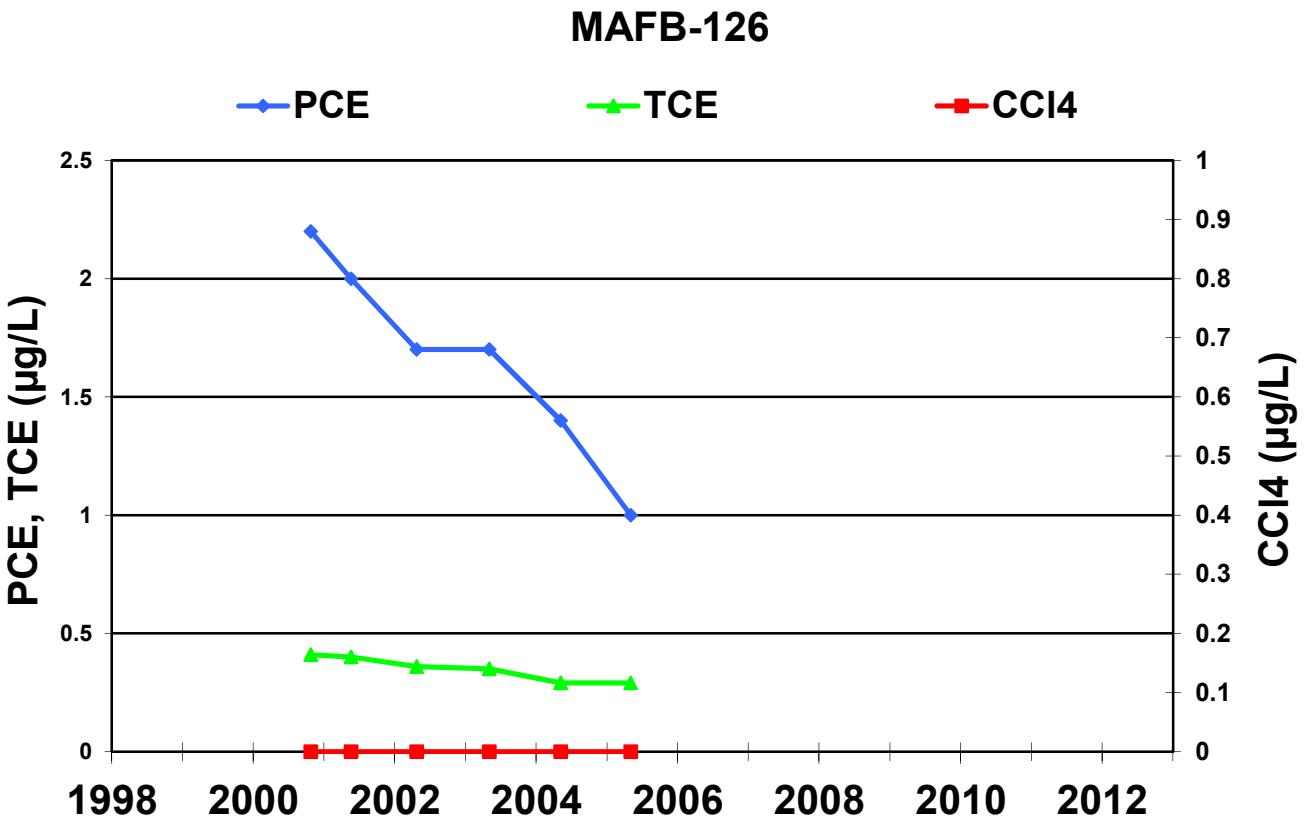

MAFB-121
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

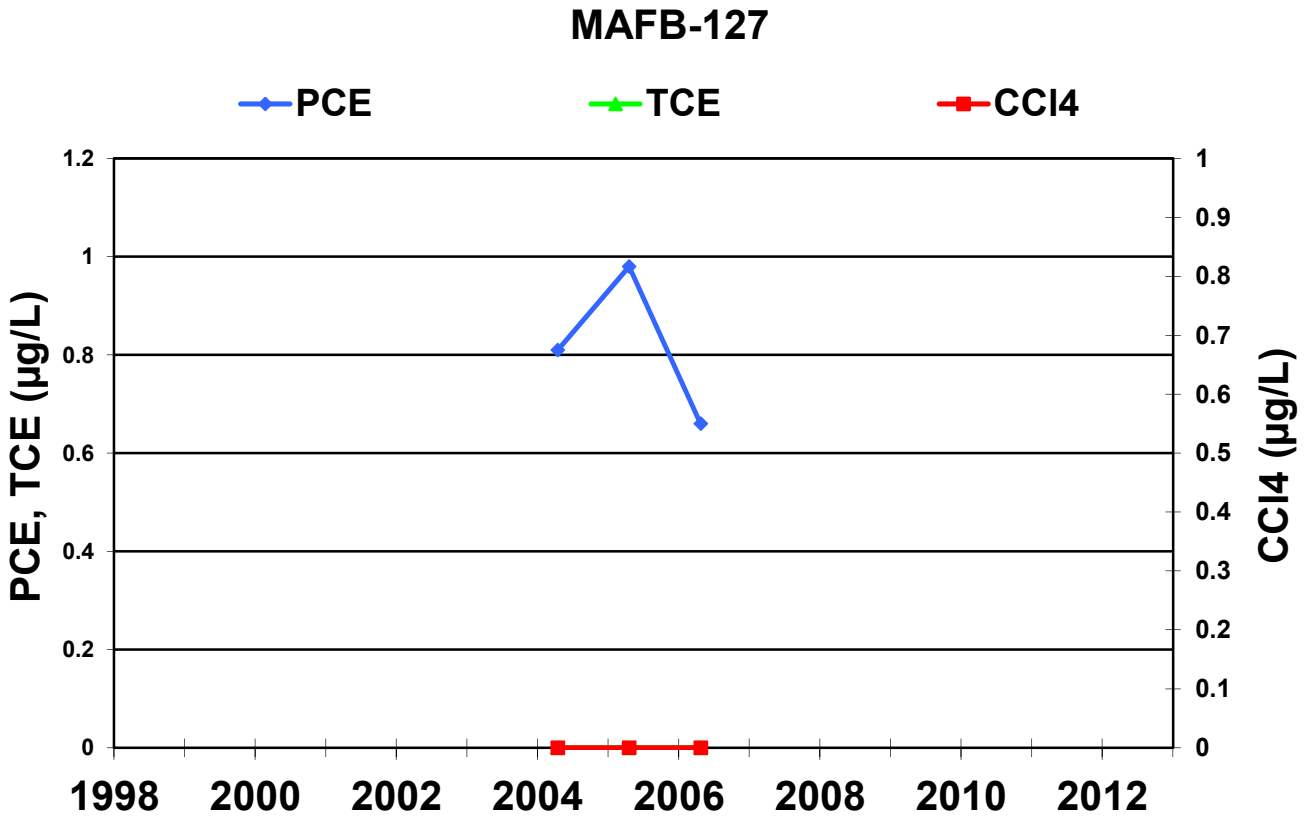

MAFB-122
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

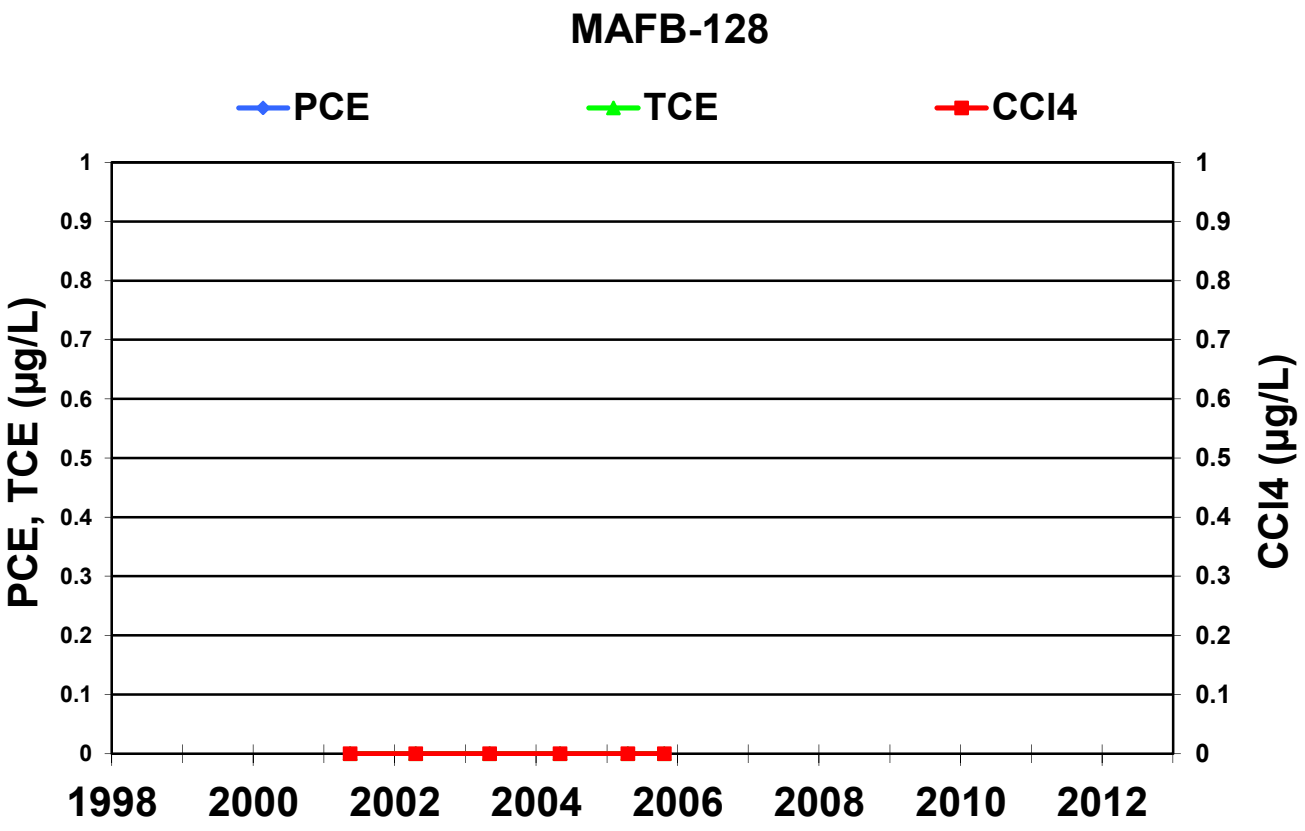

MAFB-123
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

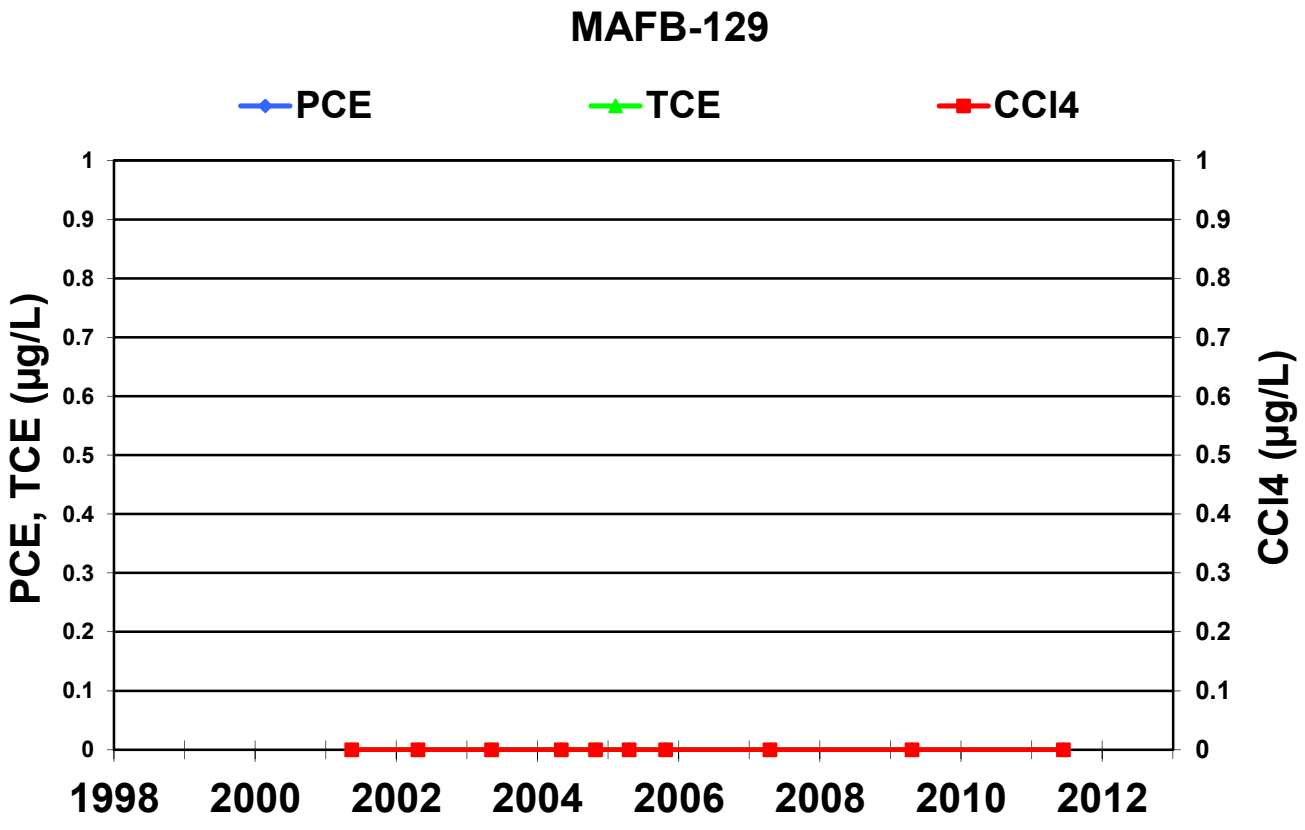

MAFB-124
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1998
2000
2002
2004
2006
2008
2010
2012

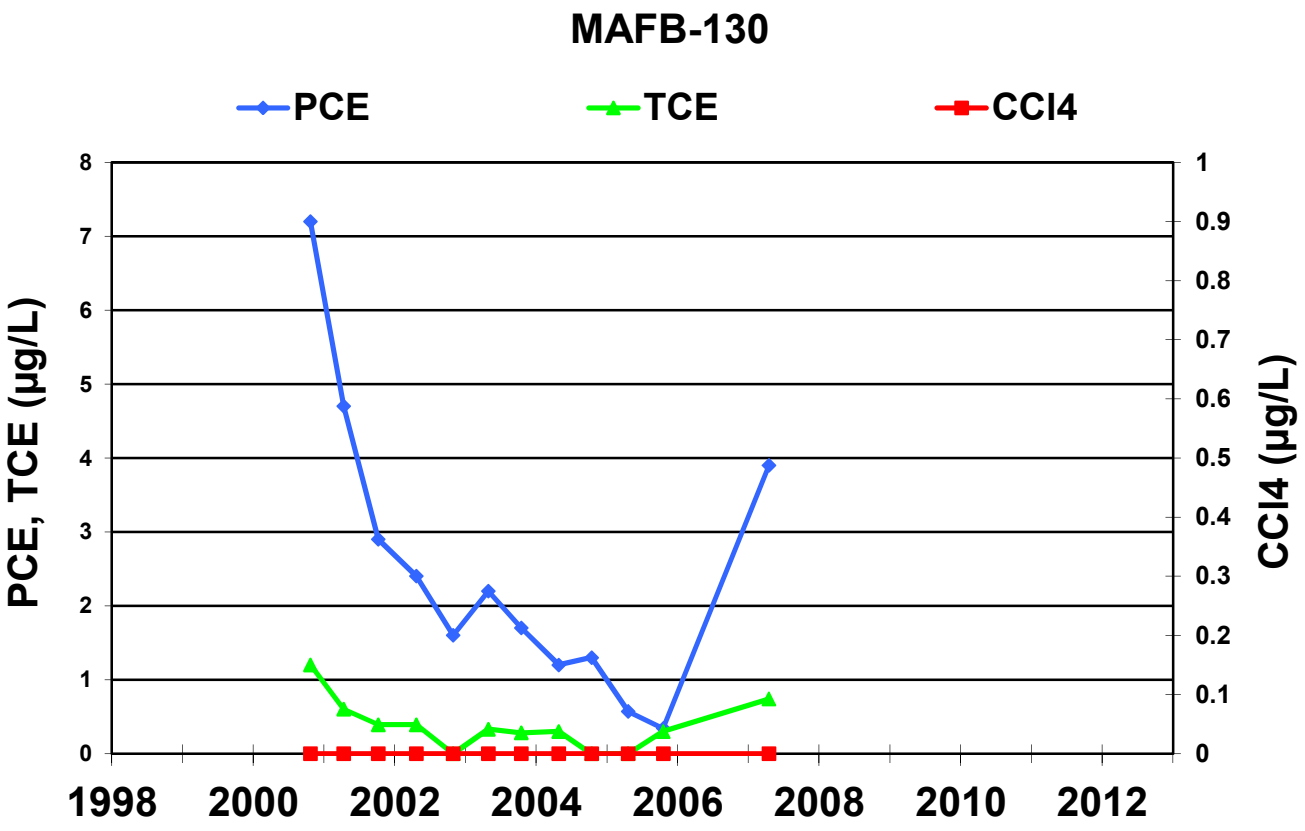

MAFB-125
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

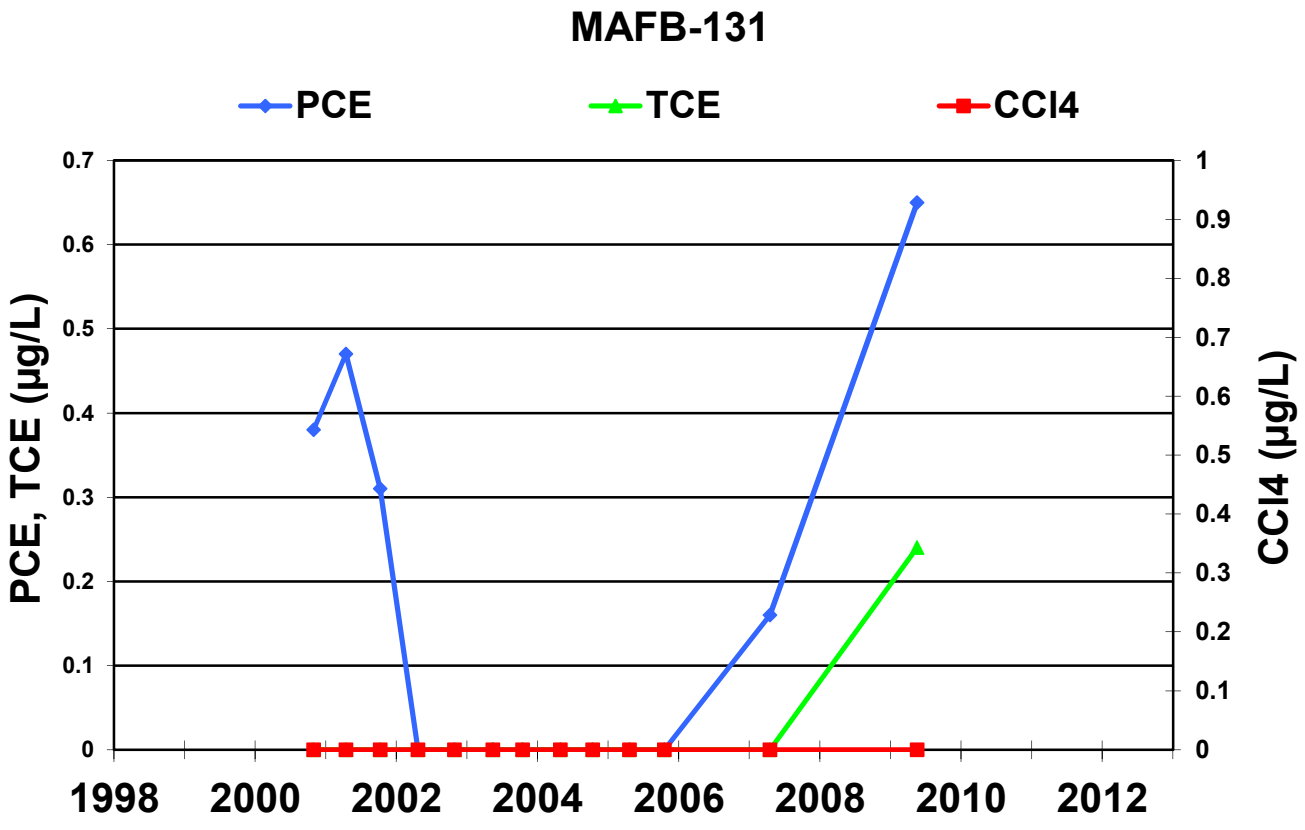

MAFB-126
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

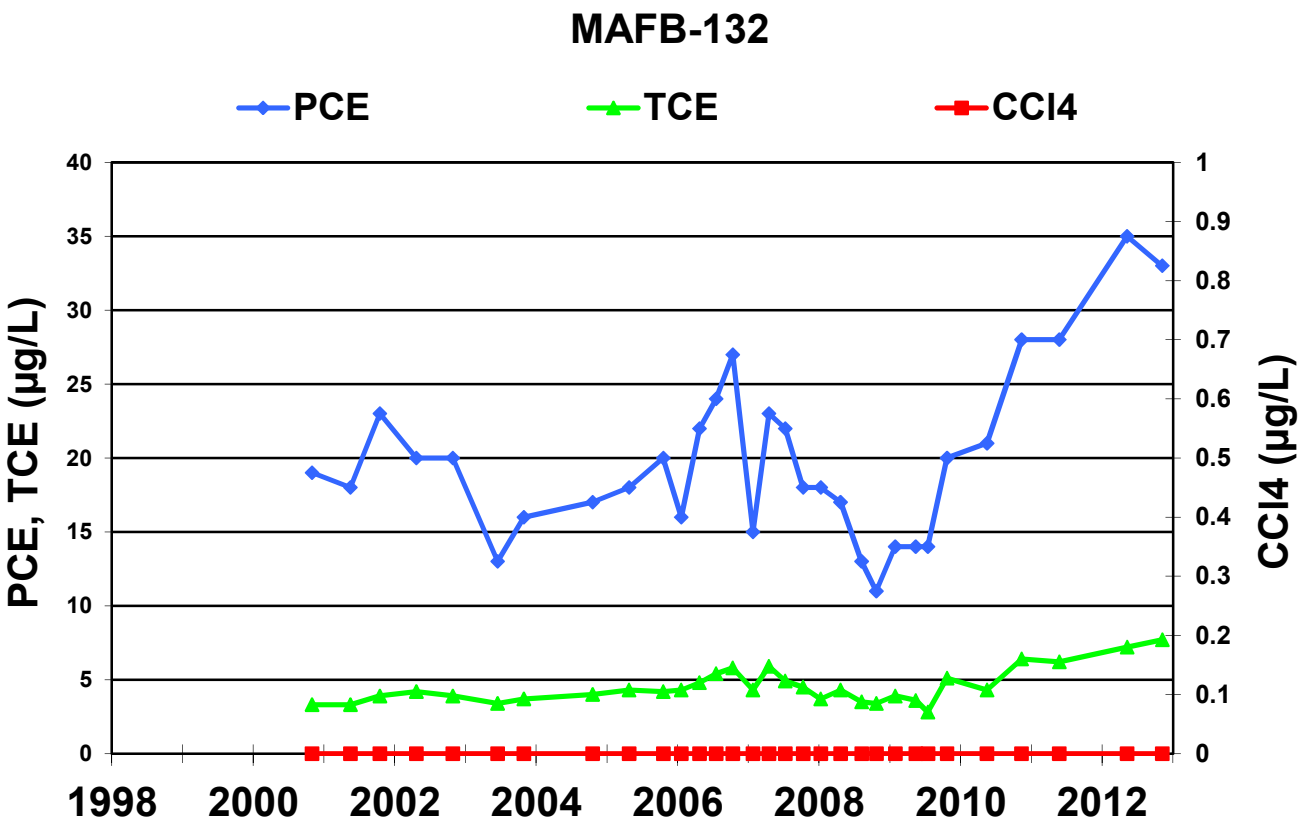

MAFB-127
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

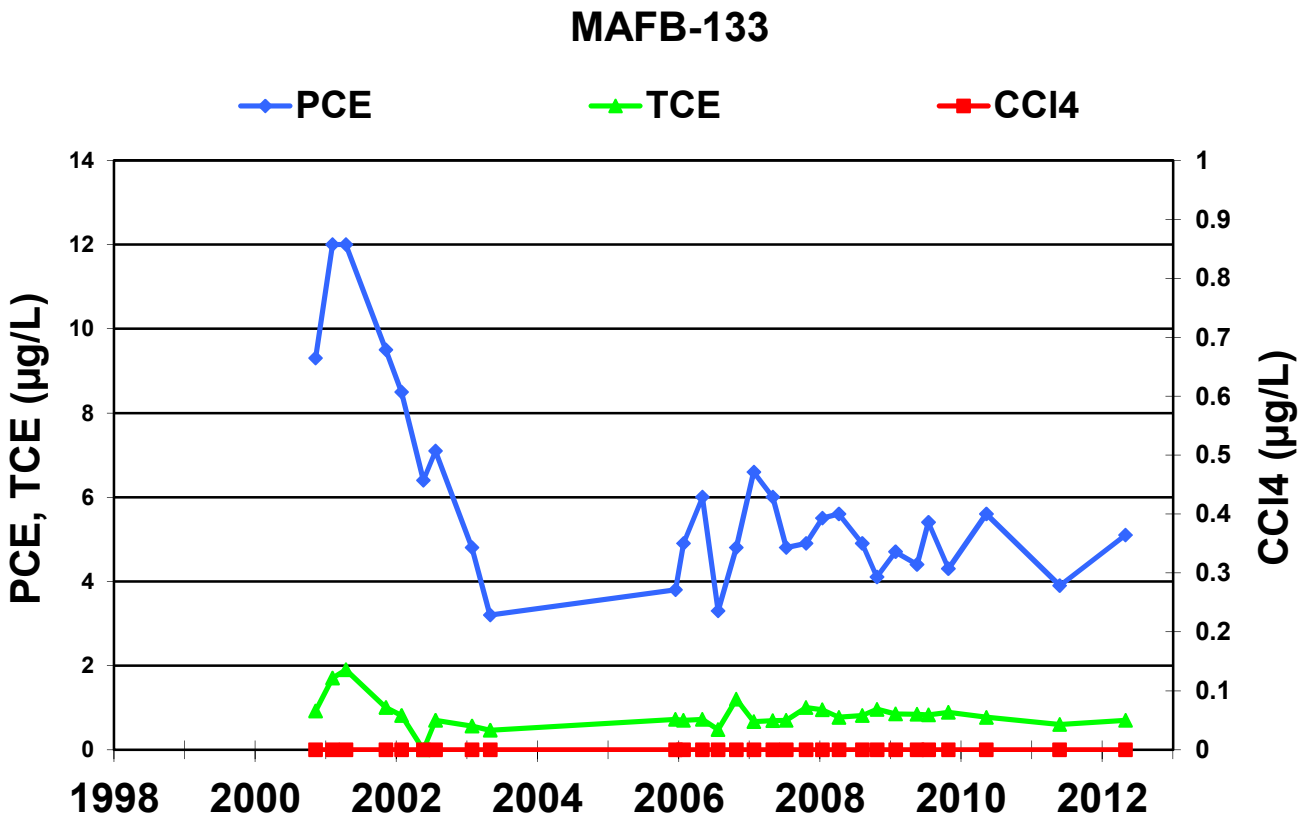

MAFB-128
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

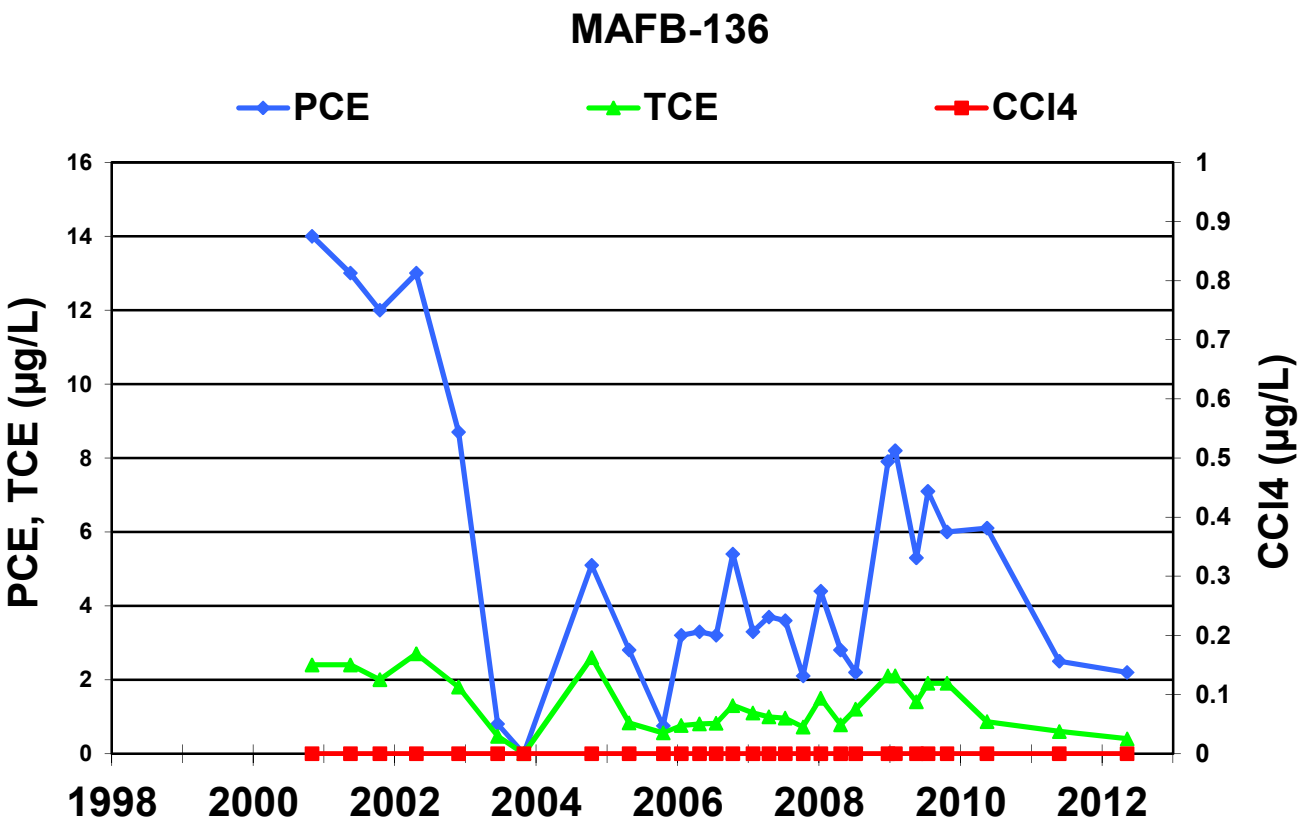

MAFB-129
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

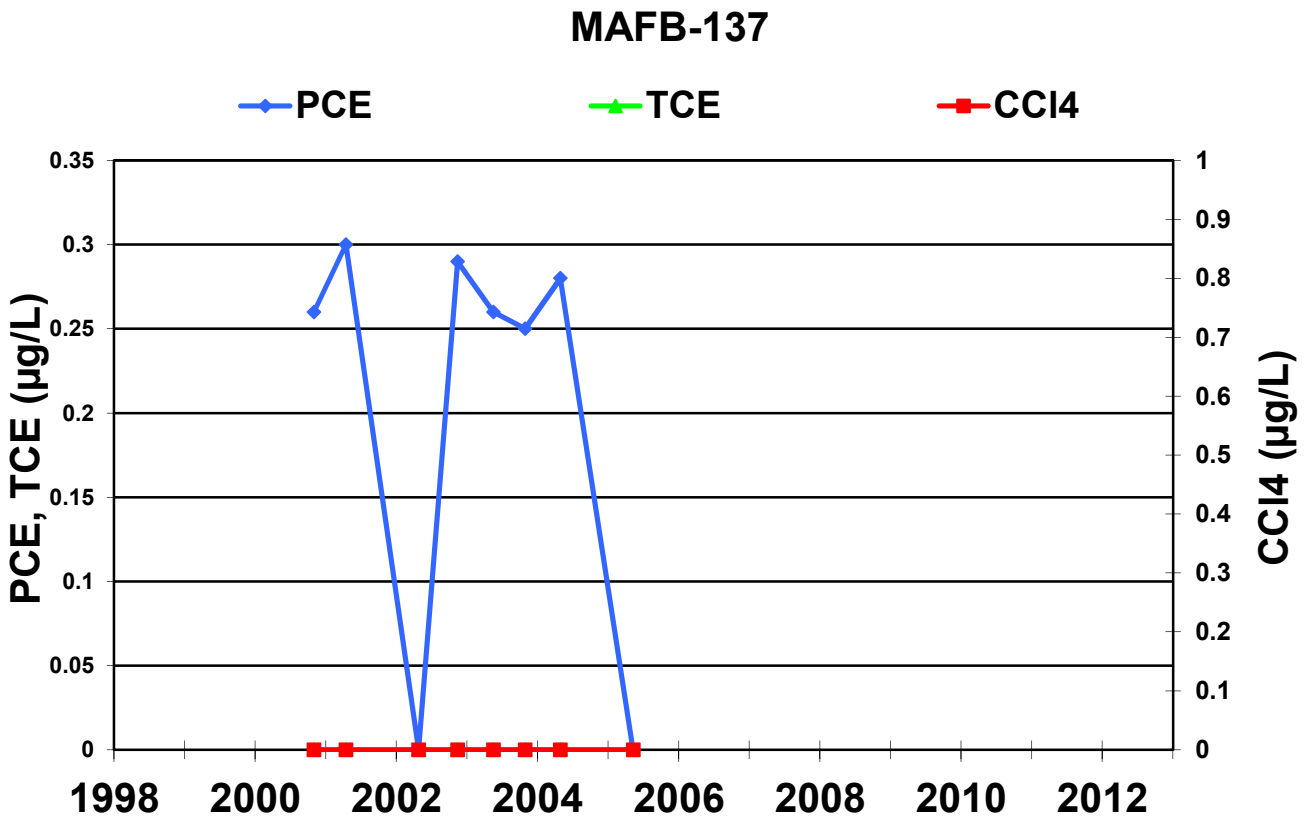

MAFB-130
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
1
2
3
4
5
6
7
8
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1998
2000
2002
2004
2006
2008
2010
2012

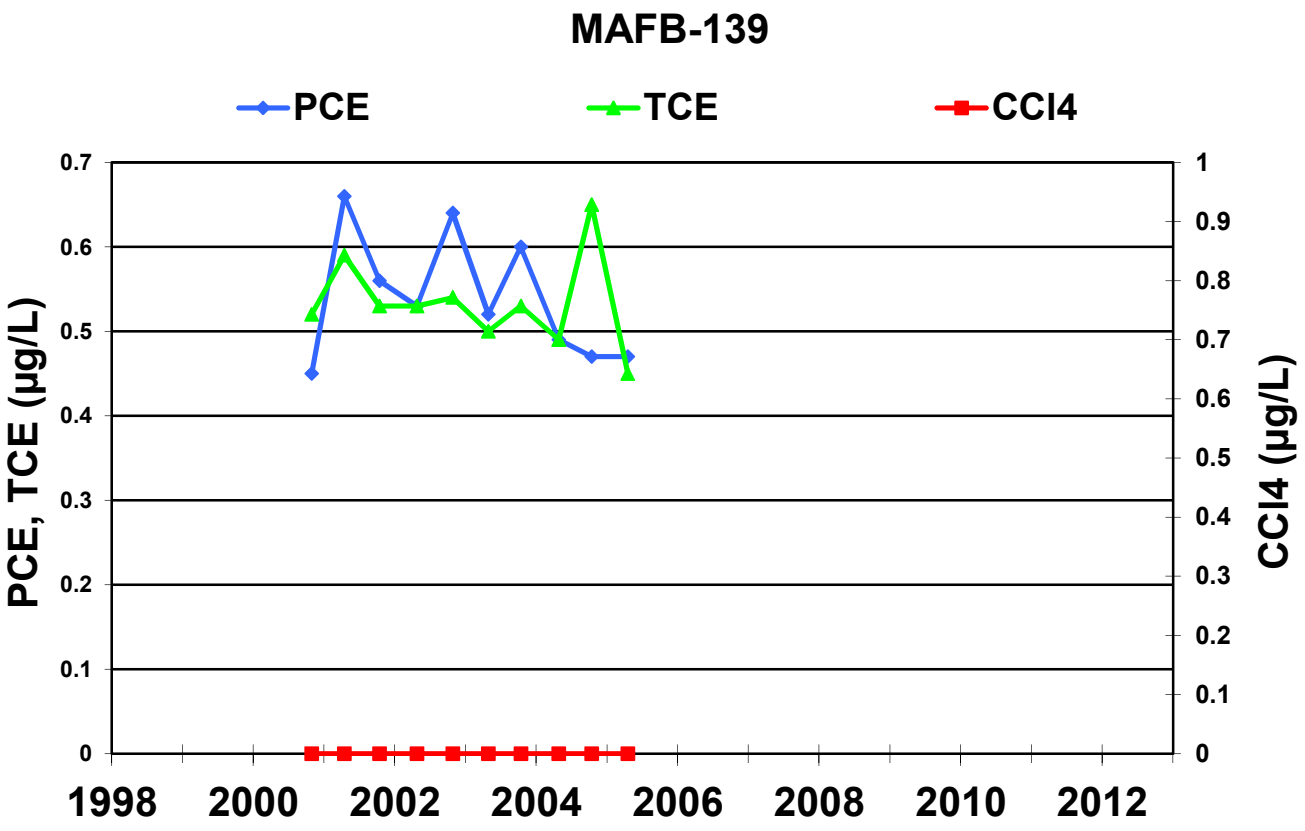

MAFB-131
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1998
2000
2002
2004
2006
2008
2010
2012

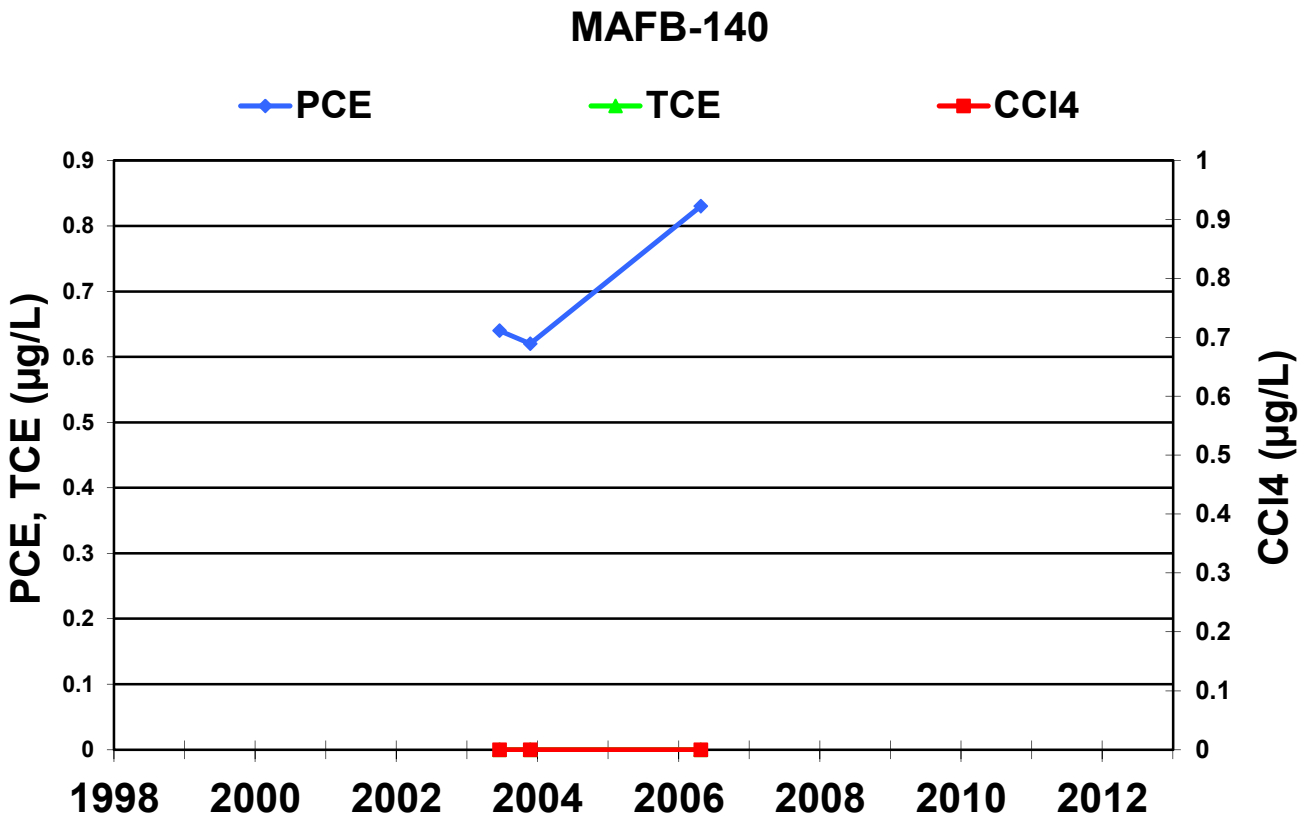

MAFB-132
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
40
35
30
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

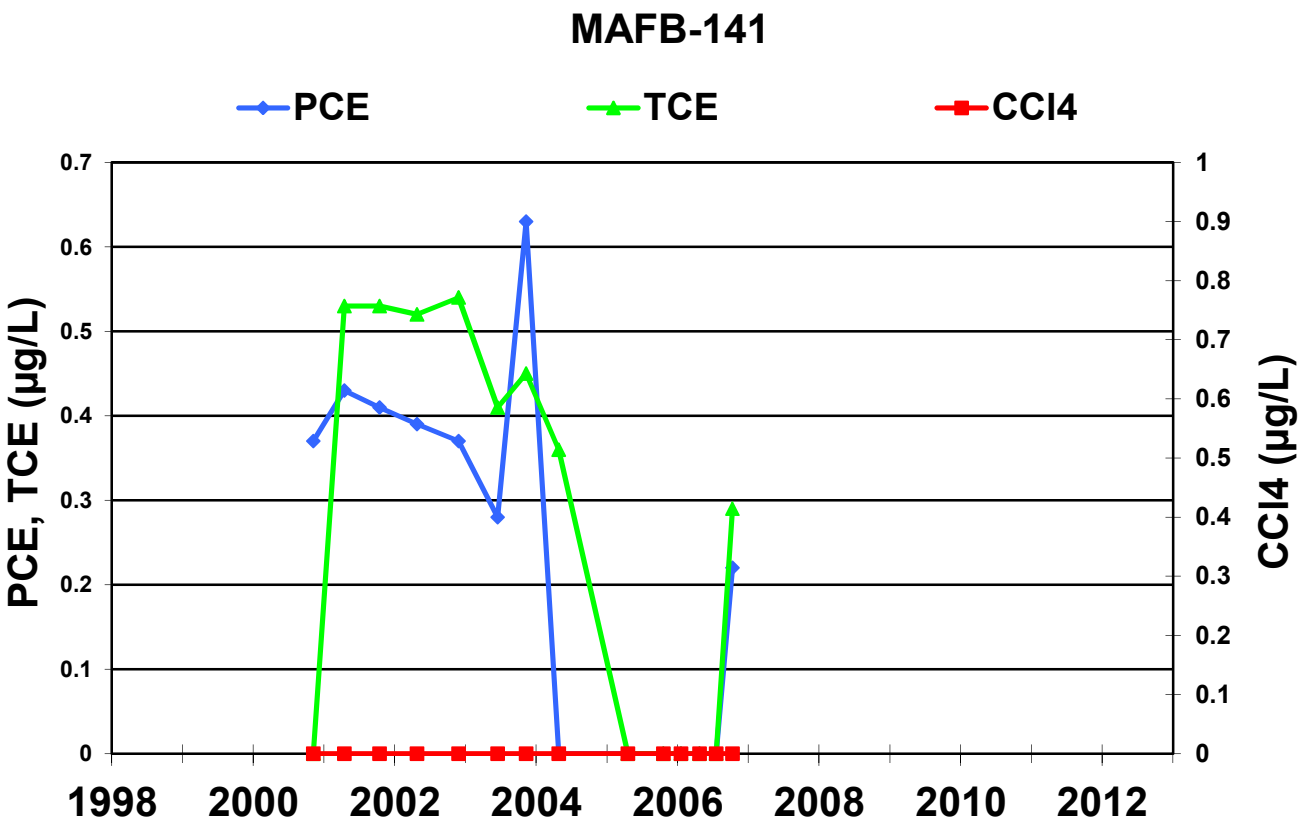

MAFB-133
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

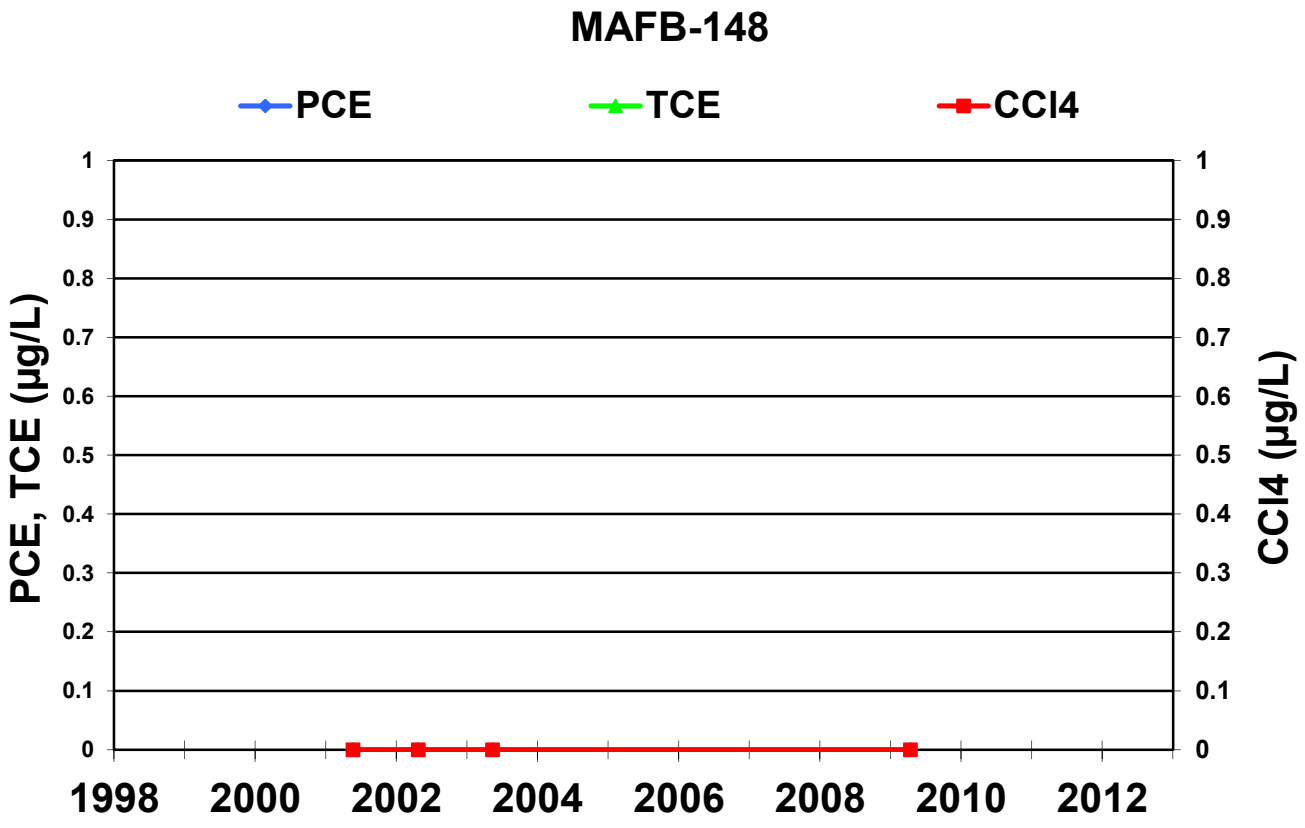

MAFB-136
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
16
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

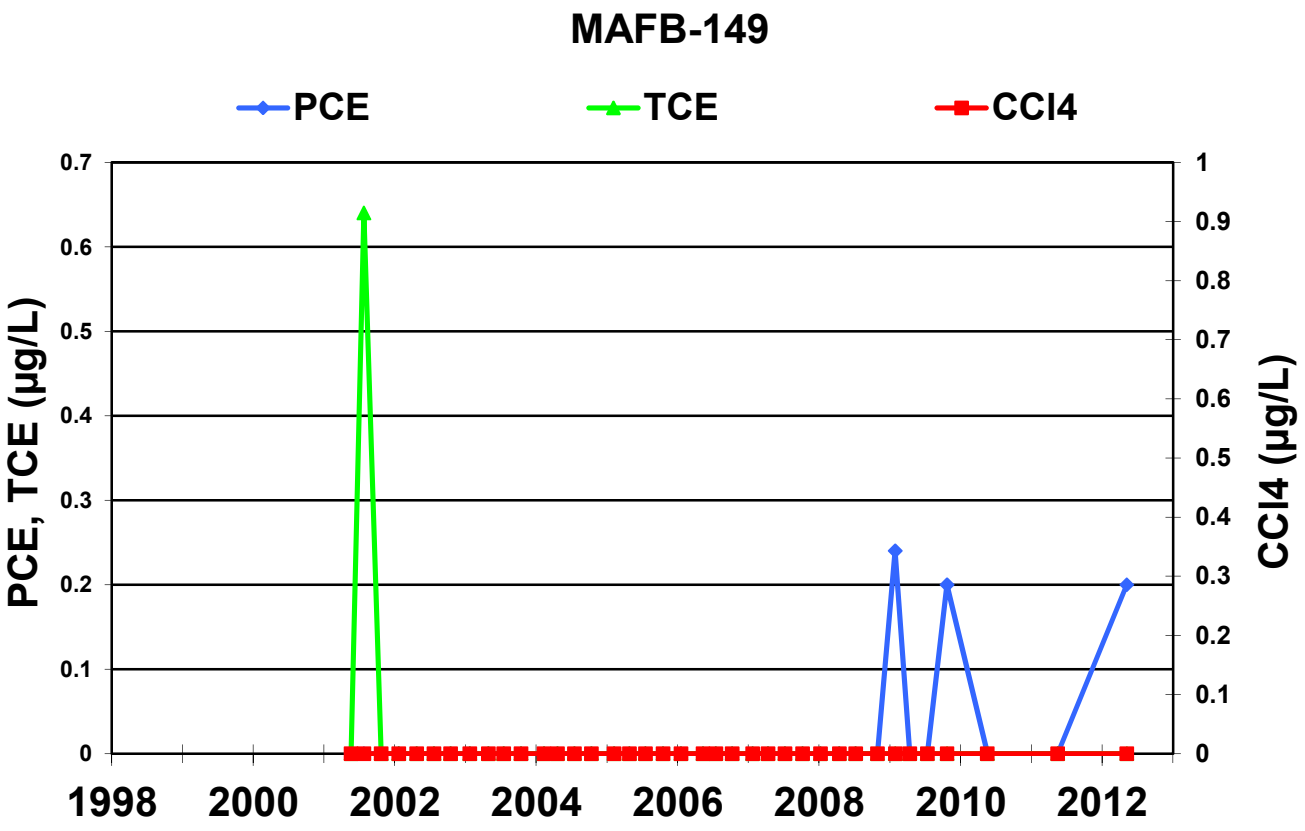

MAFB-137
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

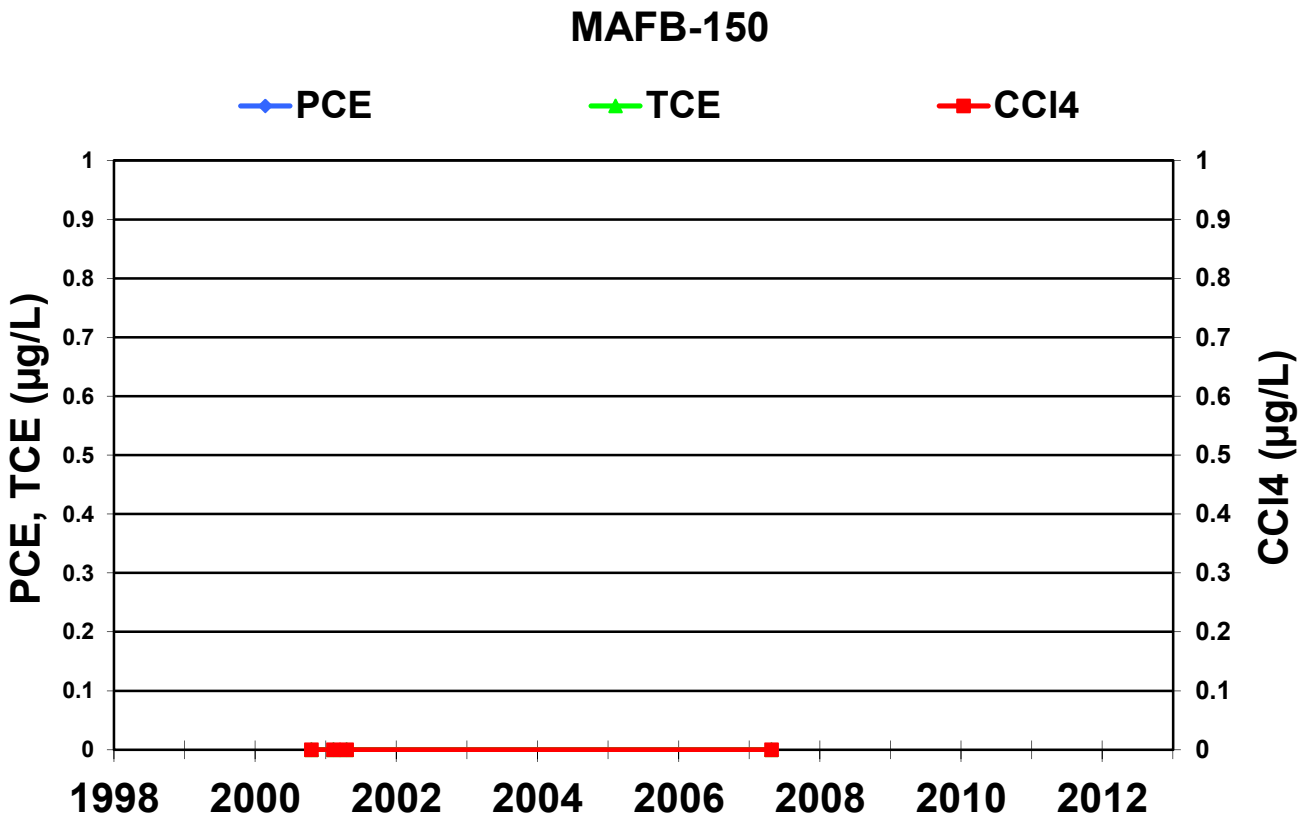

MAFB-139
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

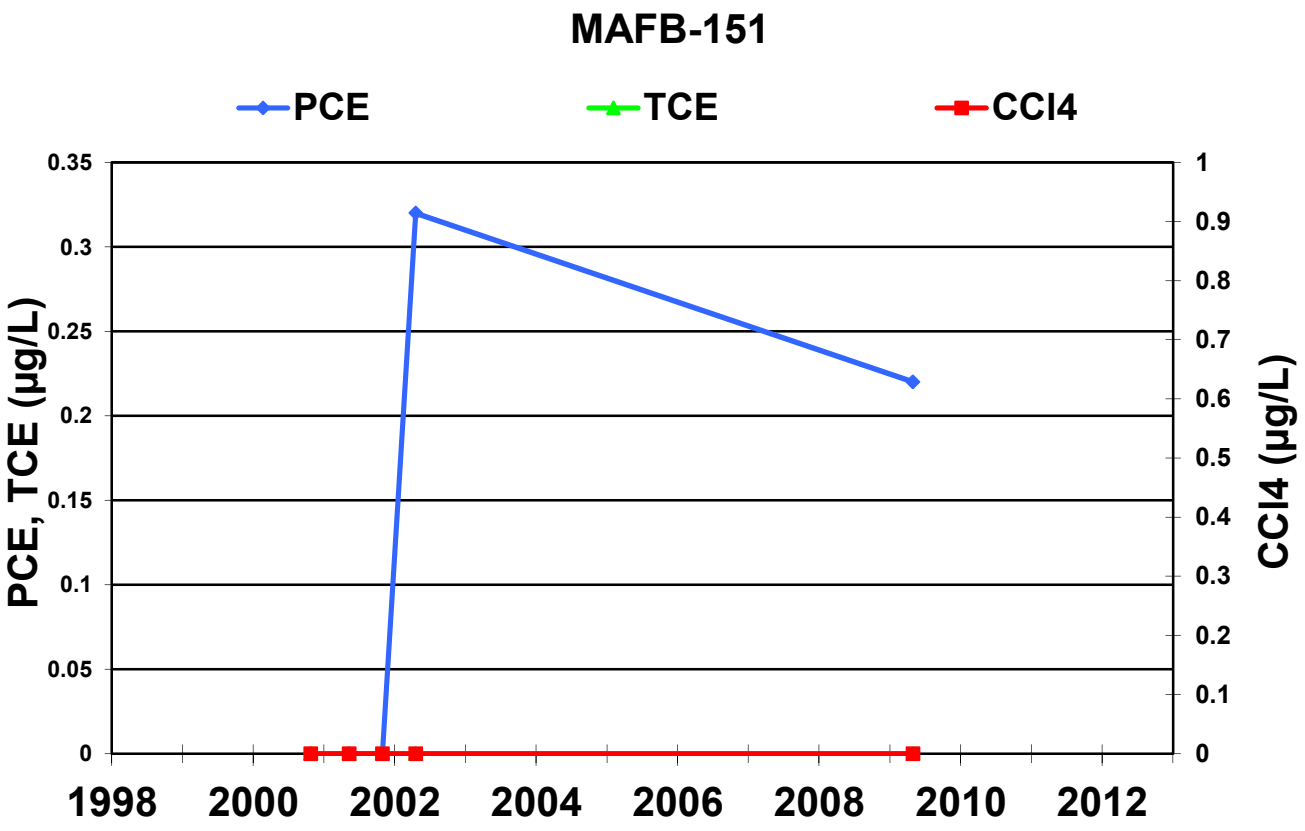

MAFB-140
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

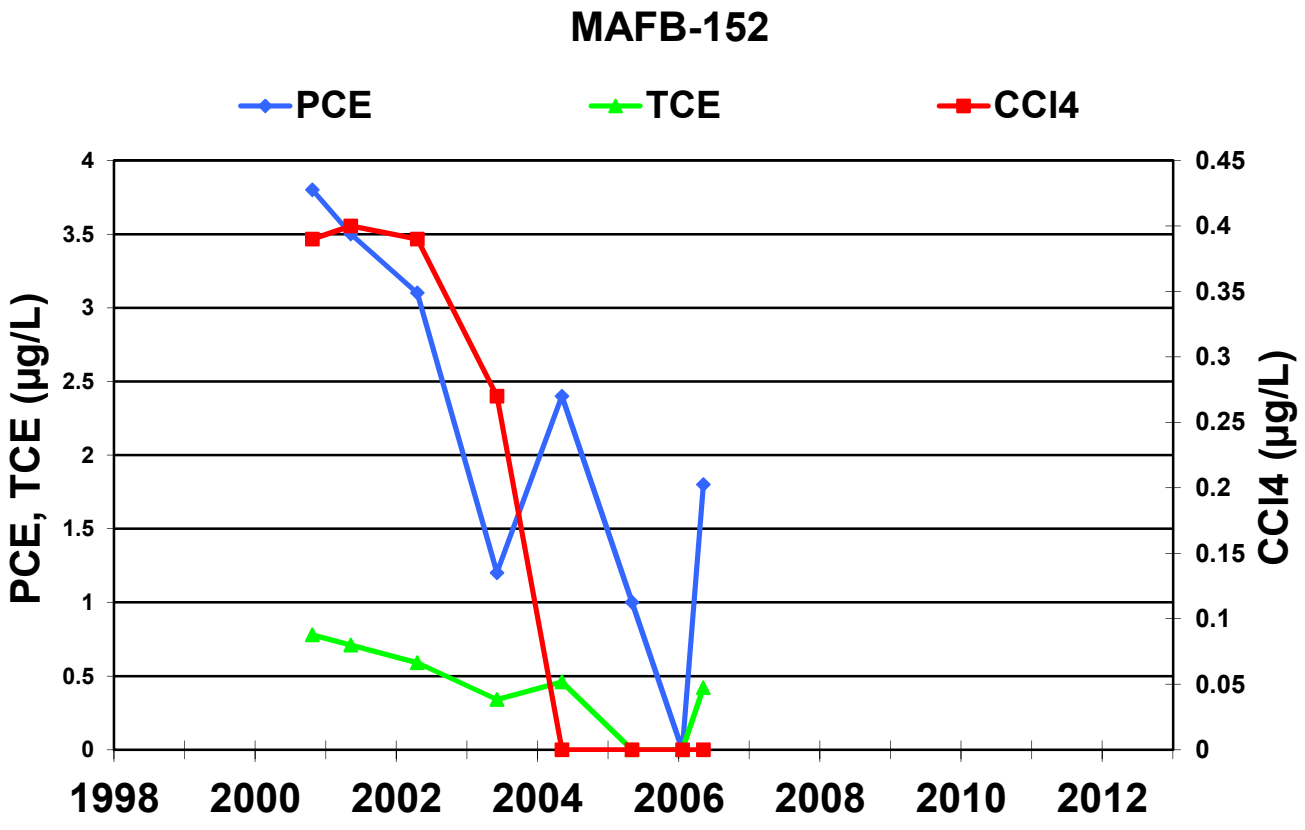

MAFB-141
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

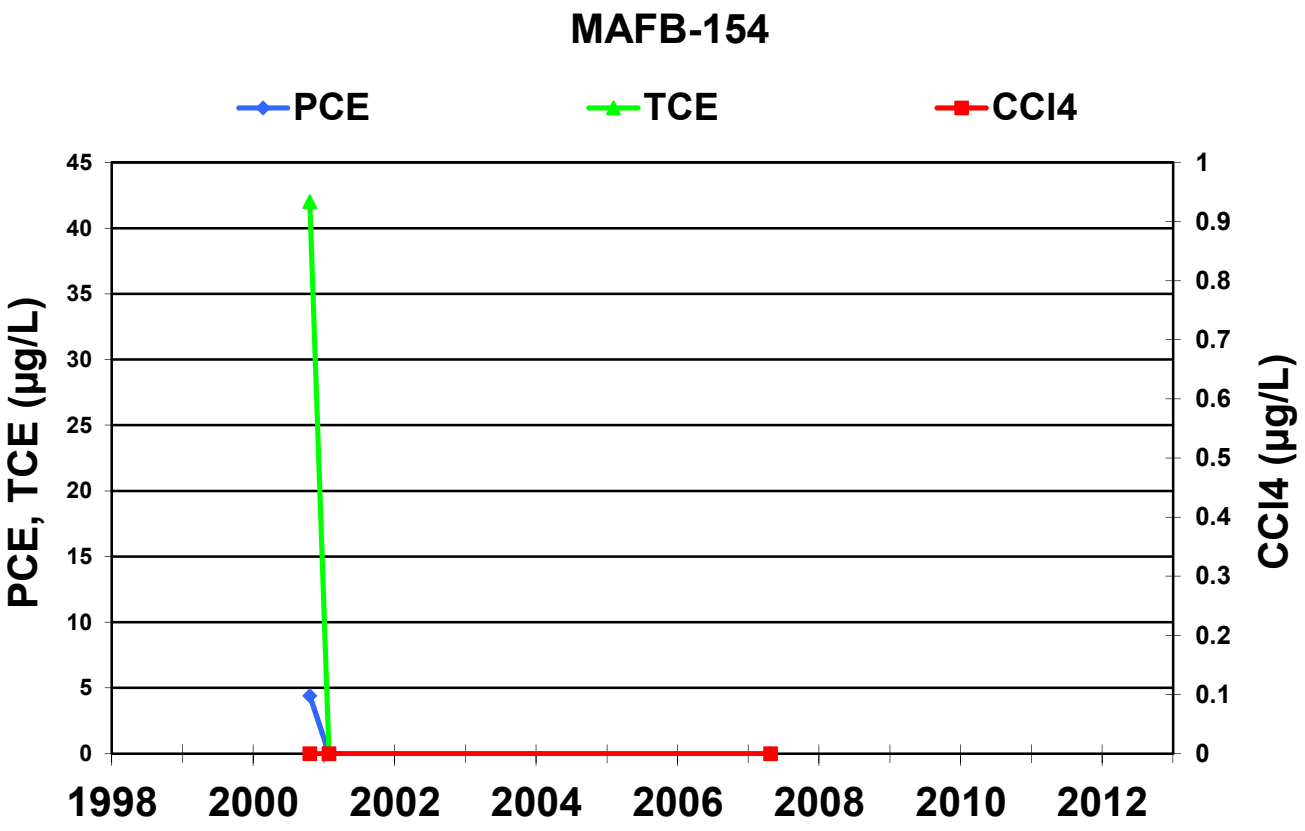

MAFB-148
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

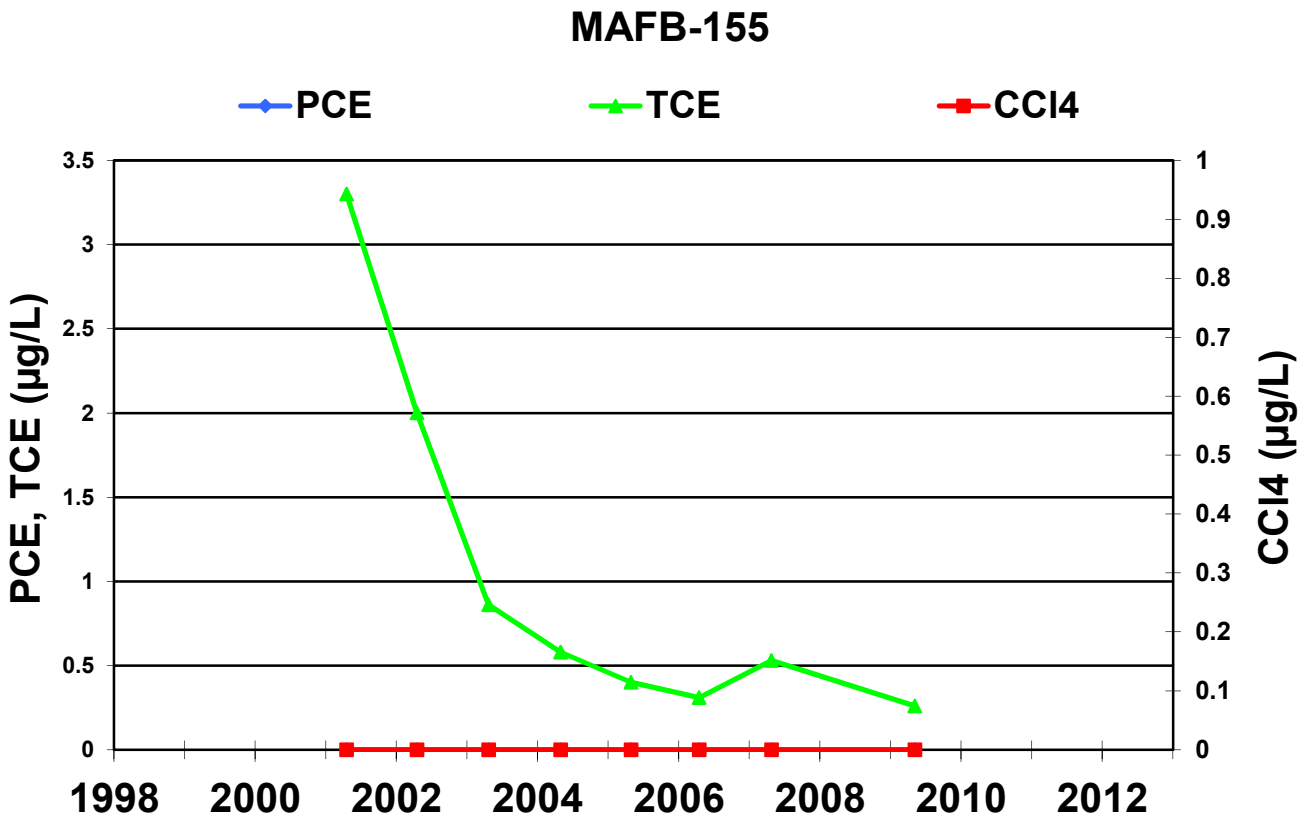

MAFB-149
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

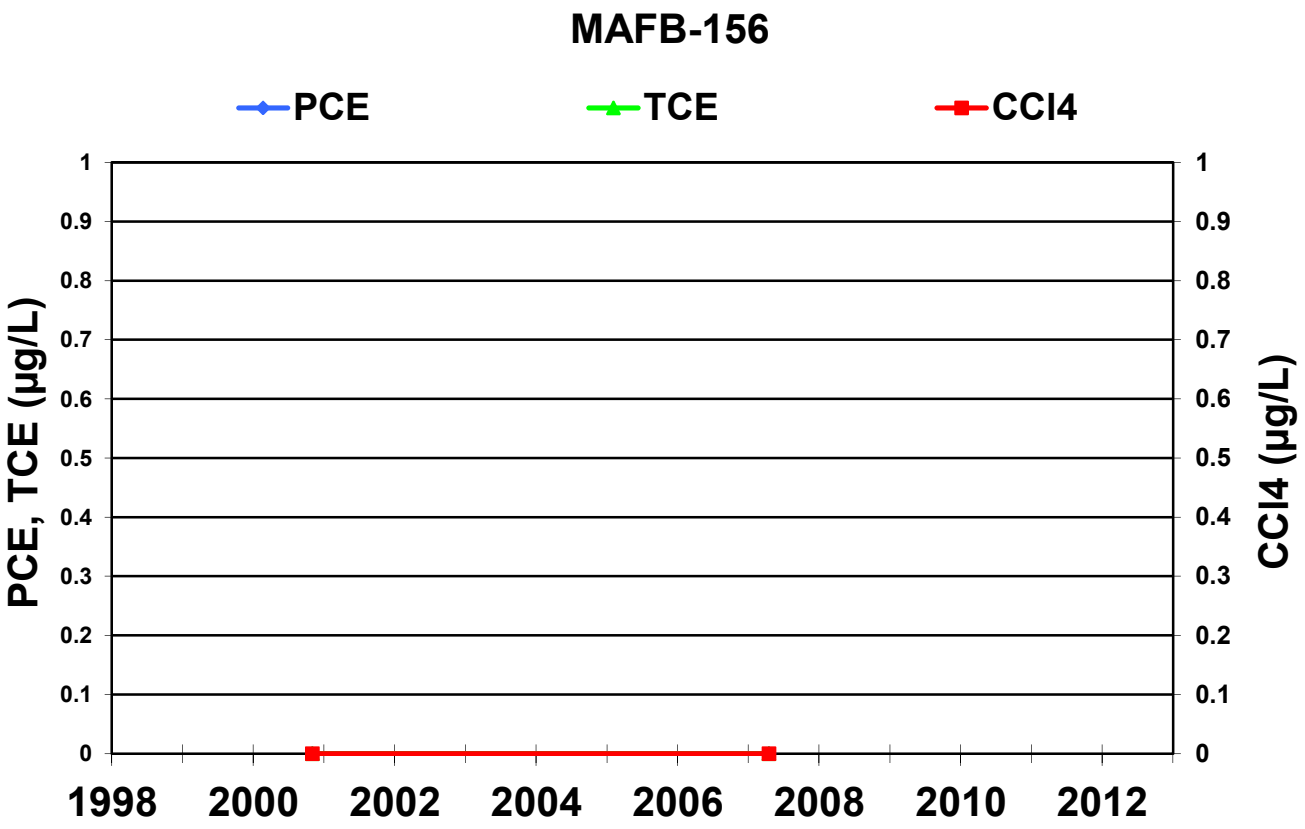

MAFB-150
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

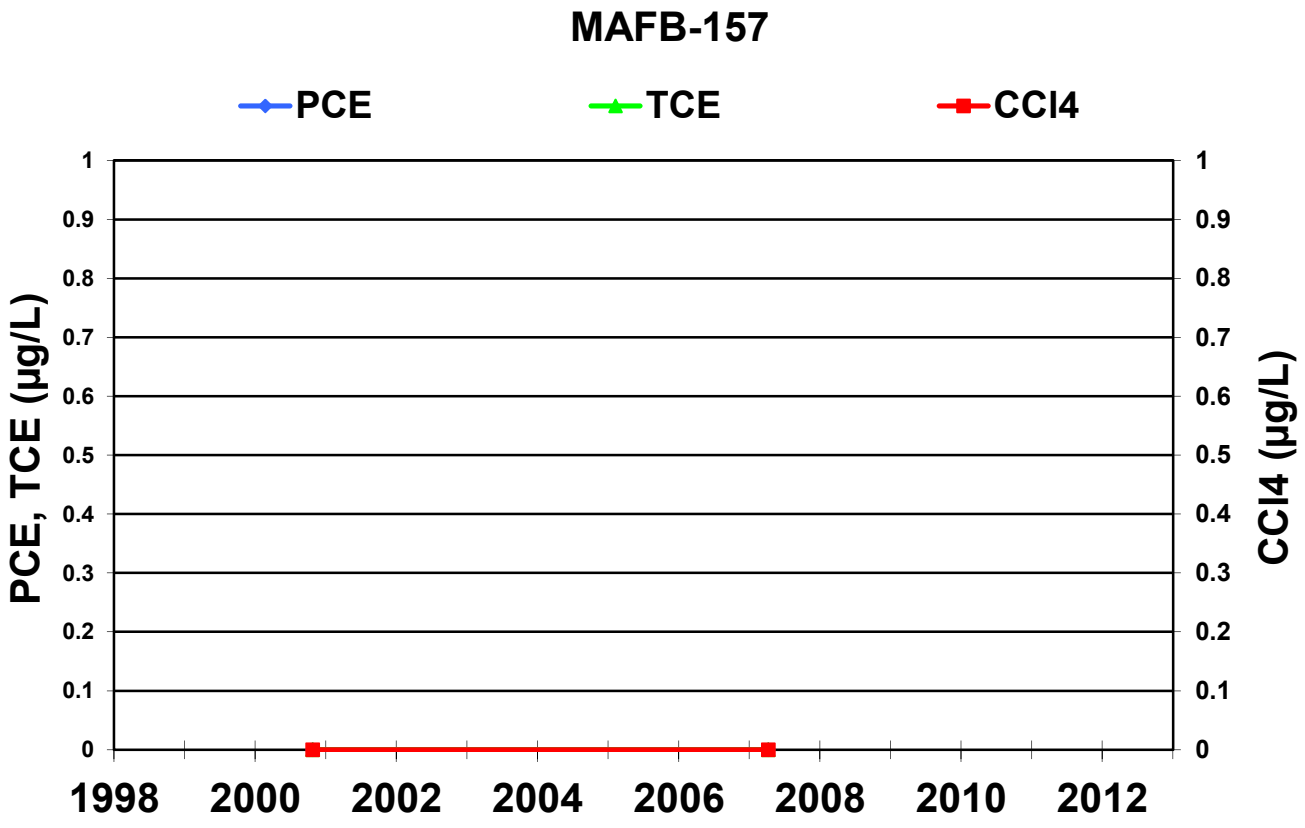

MAFB-151
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

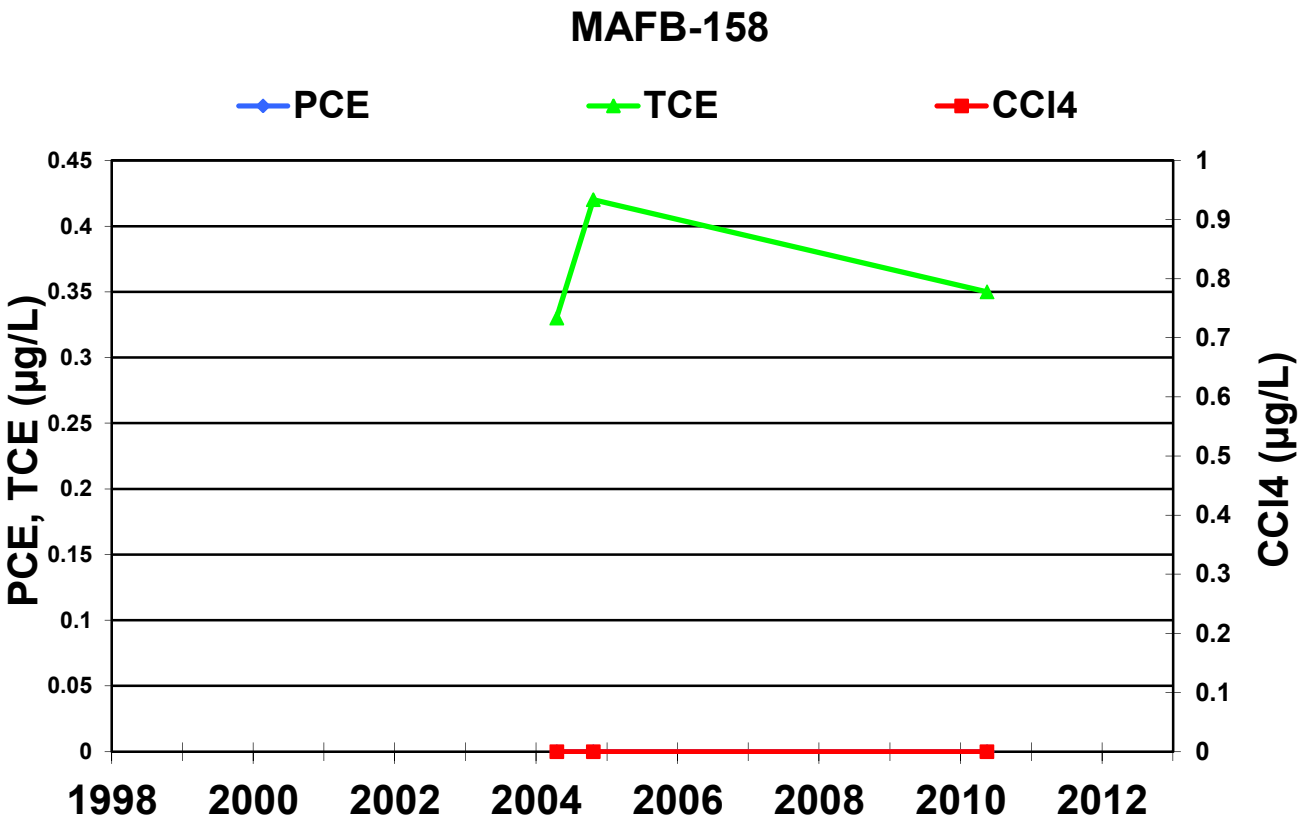

MAFB-152
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
4
3.5
3
2.5
2
1.5
1
0.5
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

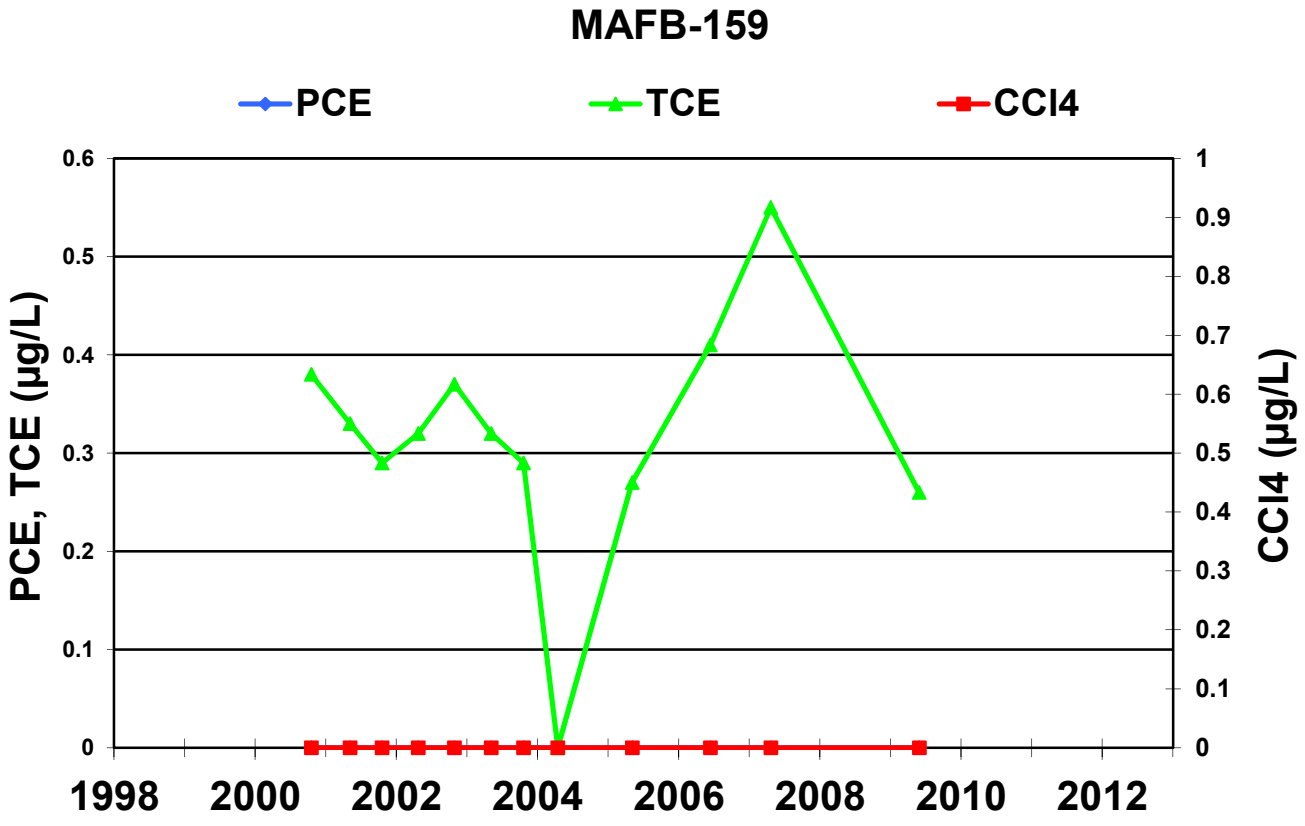

MAFB-154
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
45
40
35
30
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

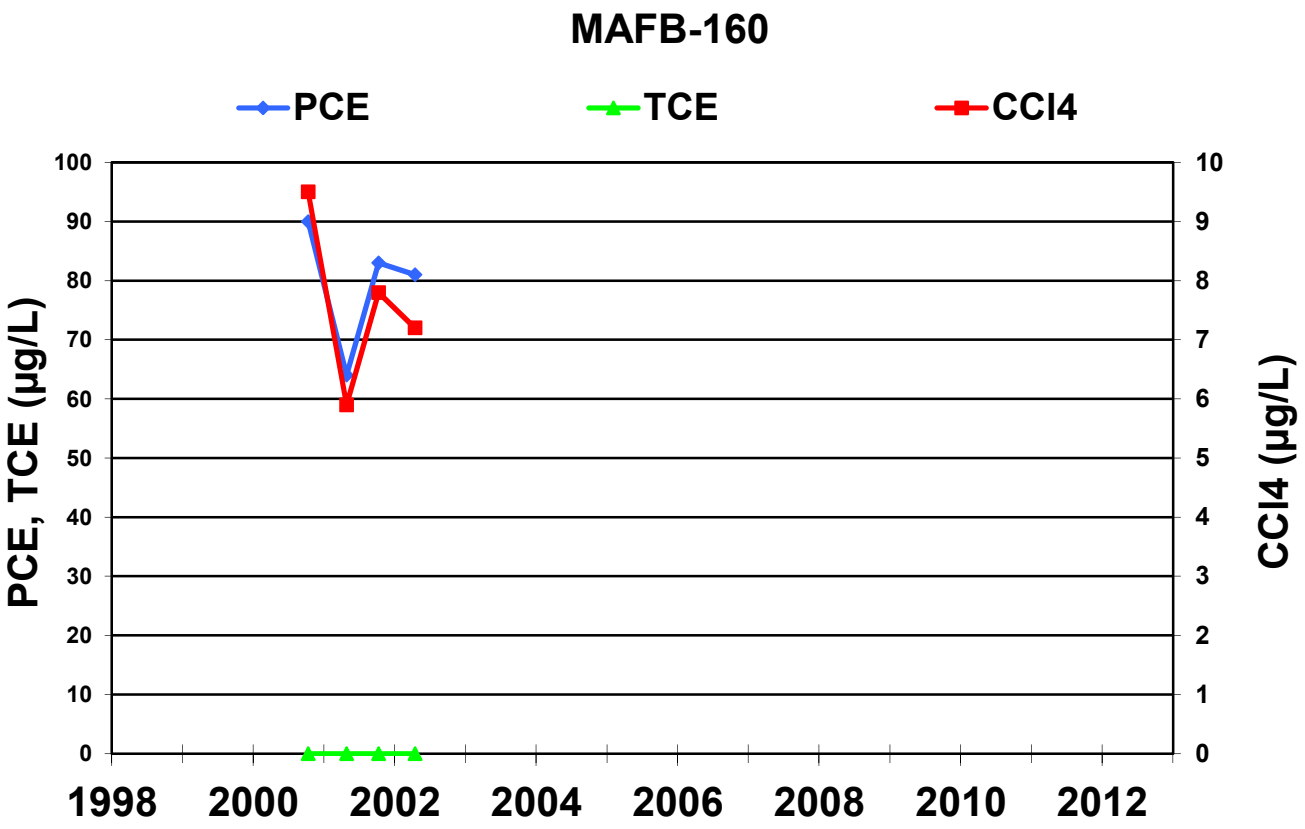

MAFB-155
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

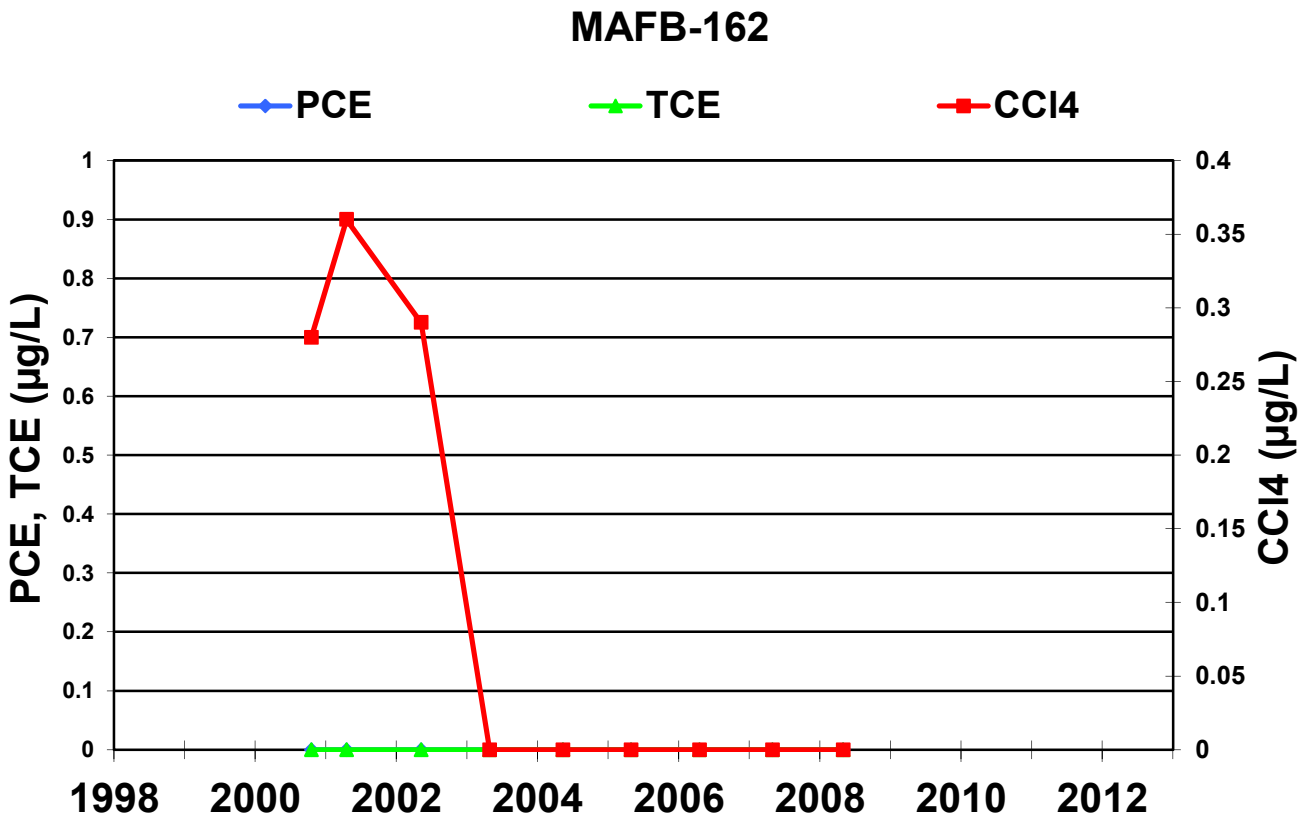

MAFB-156
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

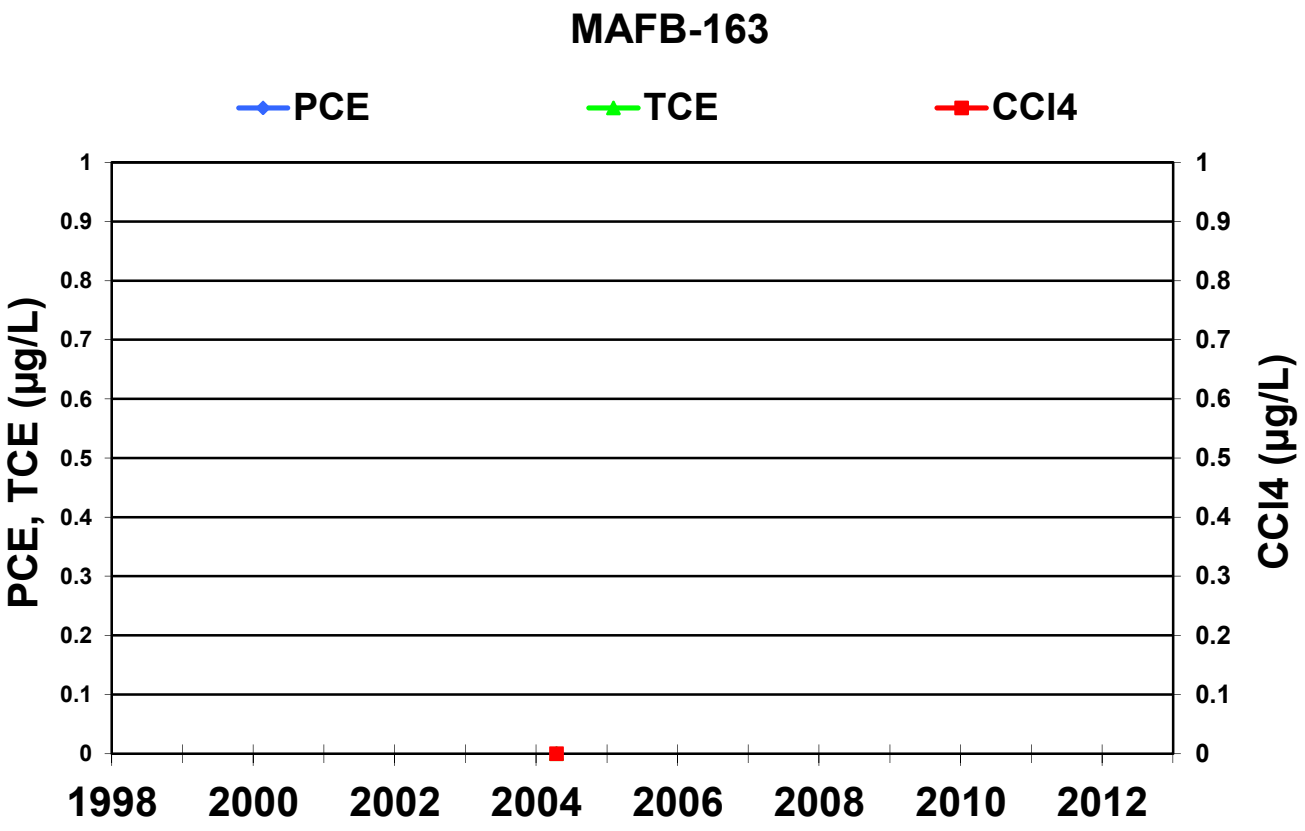

MAFB-157
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

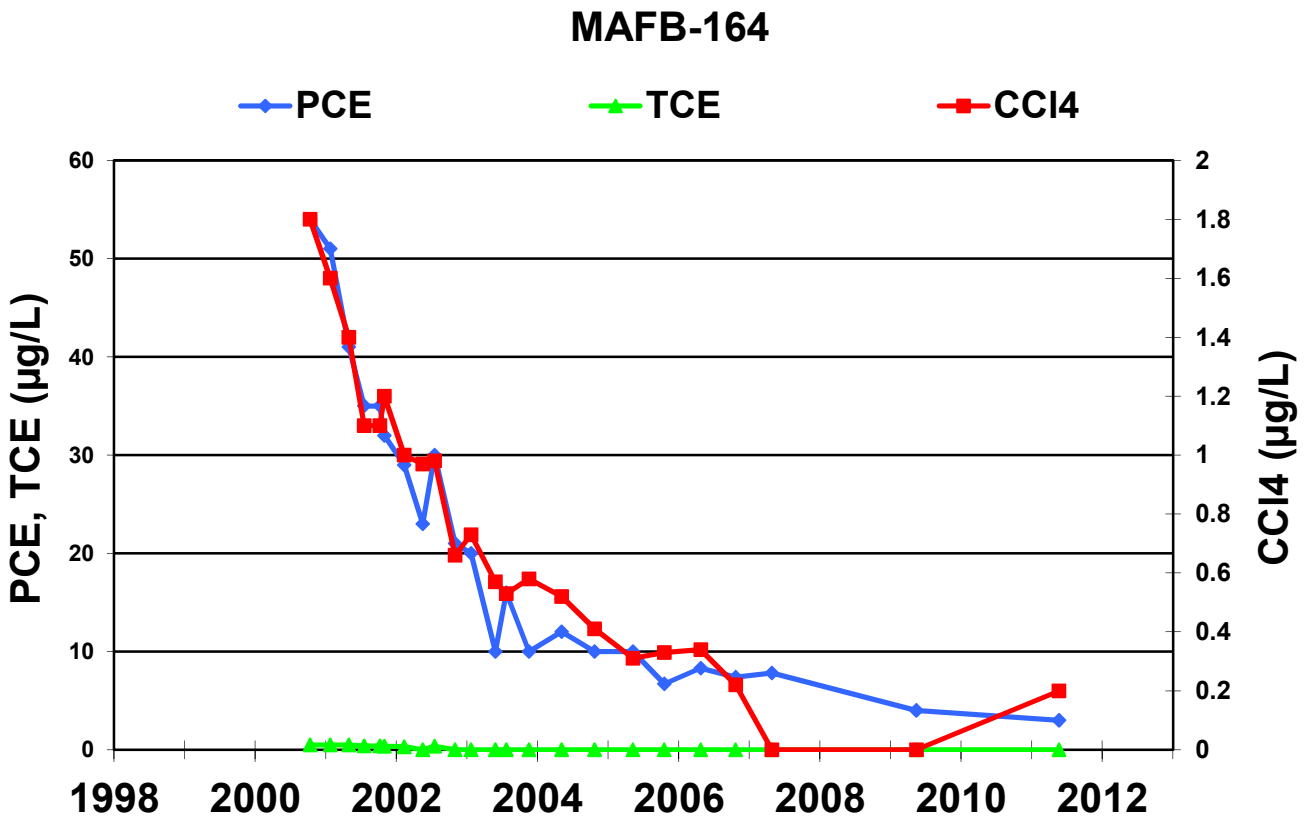

MAFB-158
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

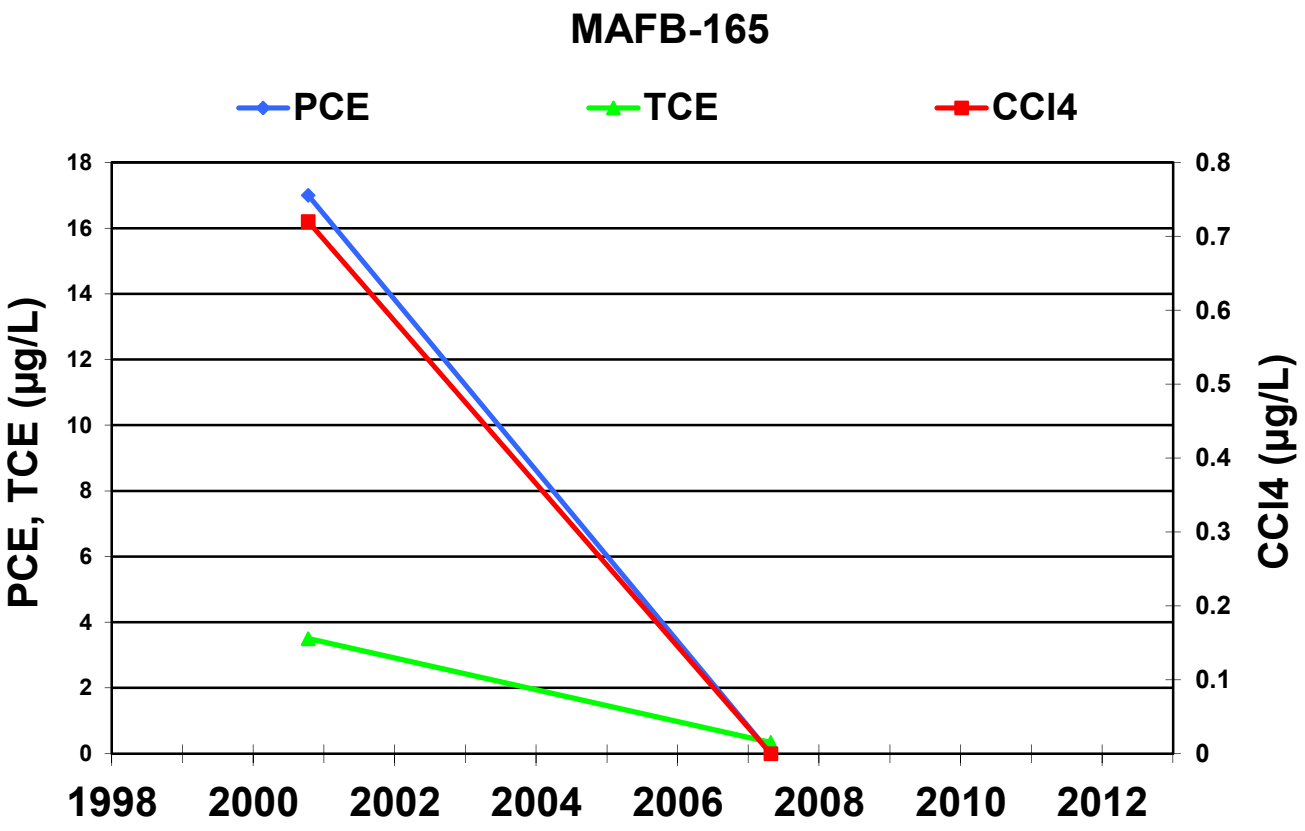

MAFB-159
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

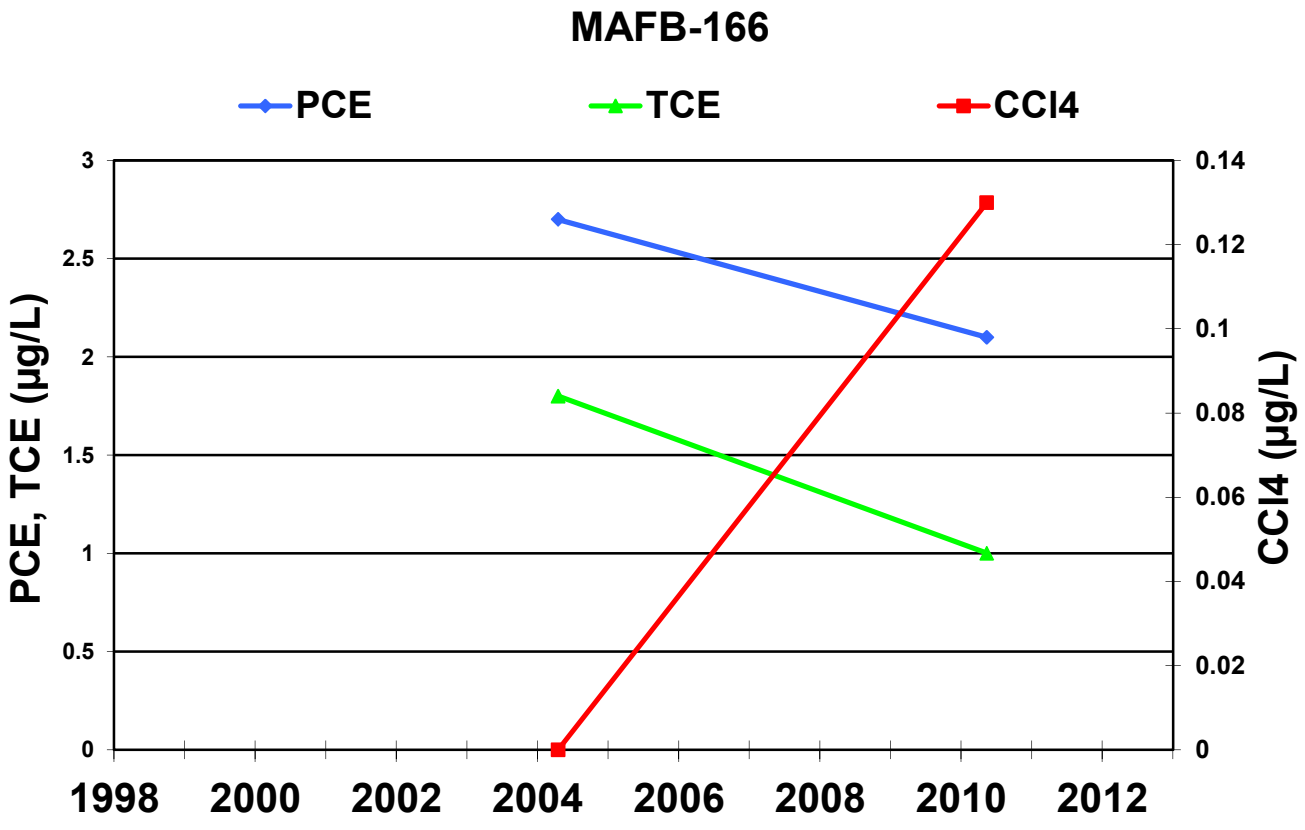

MAFB-160
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
100
90
80
70
60
50
40
30
20
10
0
10
9
8
7
6
5
4
3
2
1
0
1998
2000
2002
2004
2006
2008
2010
2012

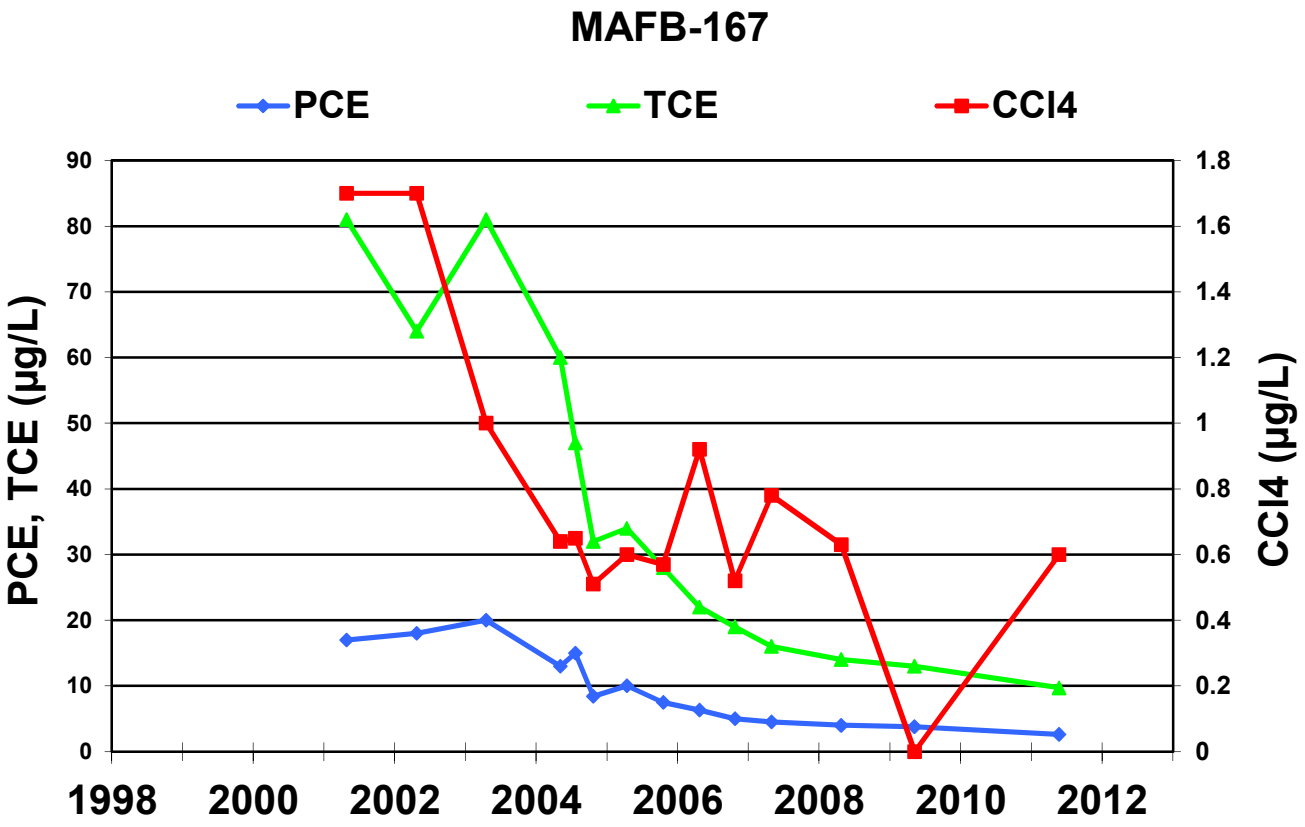

MAFB-162
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

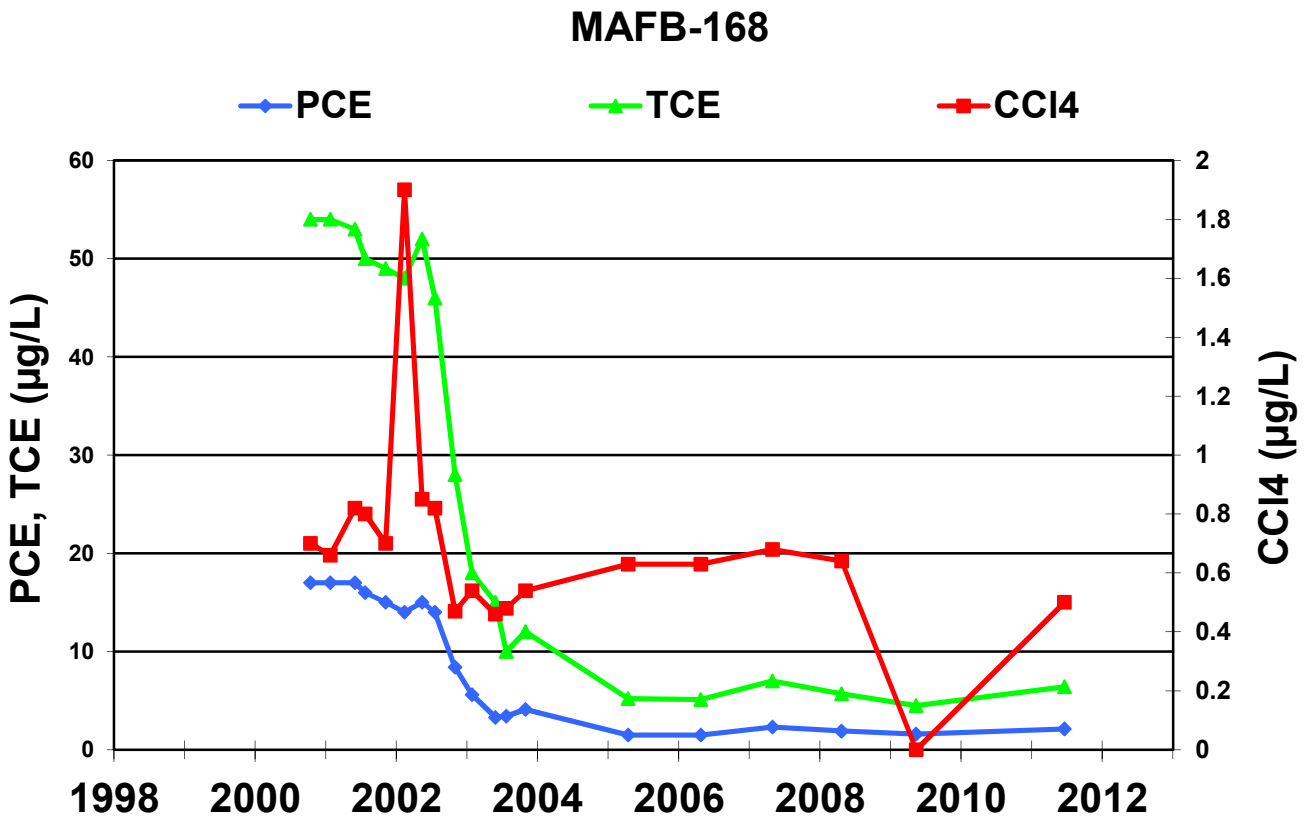

MAFB-163
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

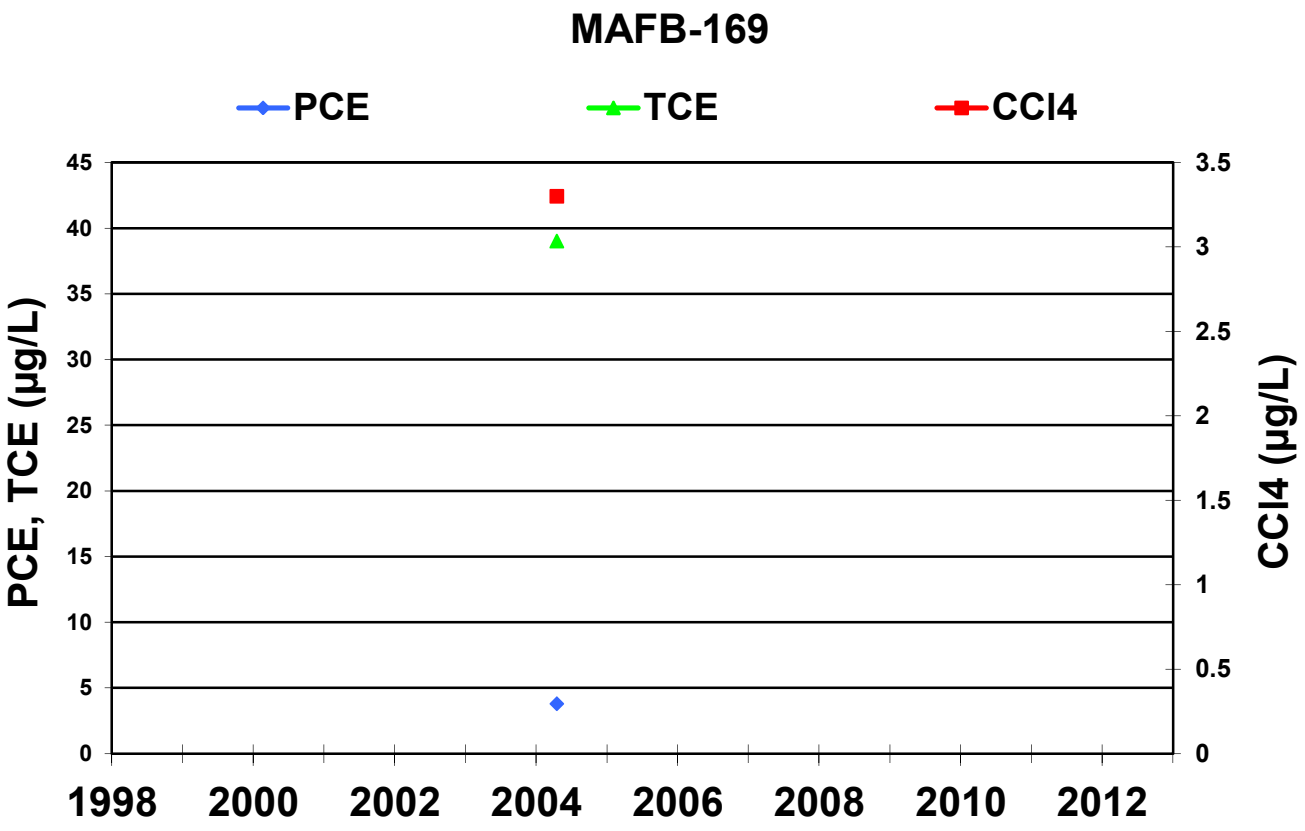

MAFB-164
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
60
50
40
30
20
10
0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

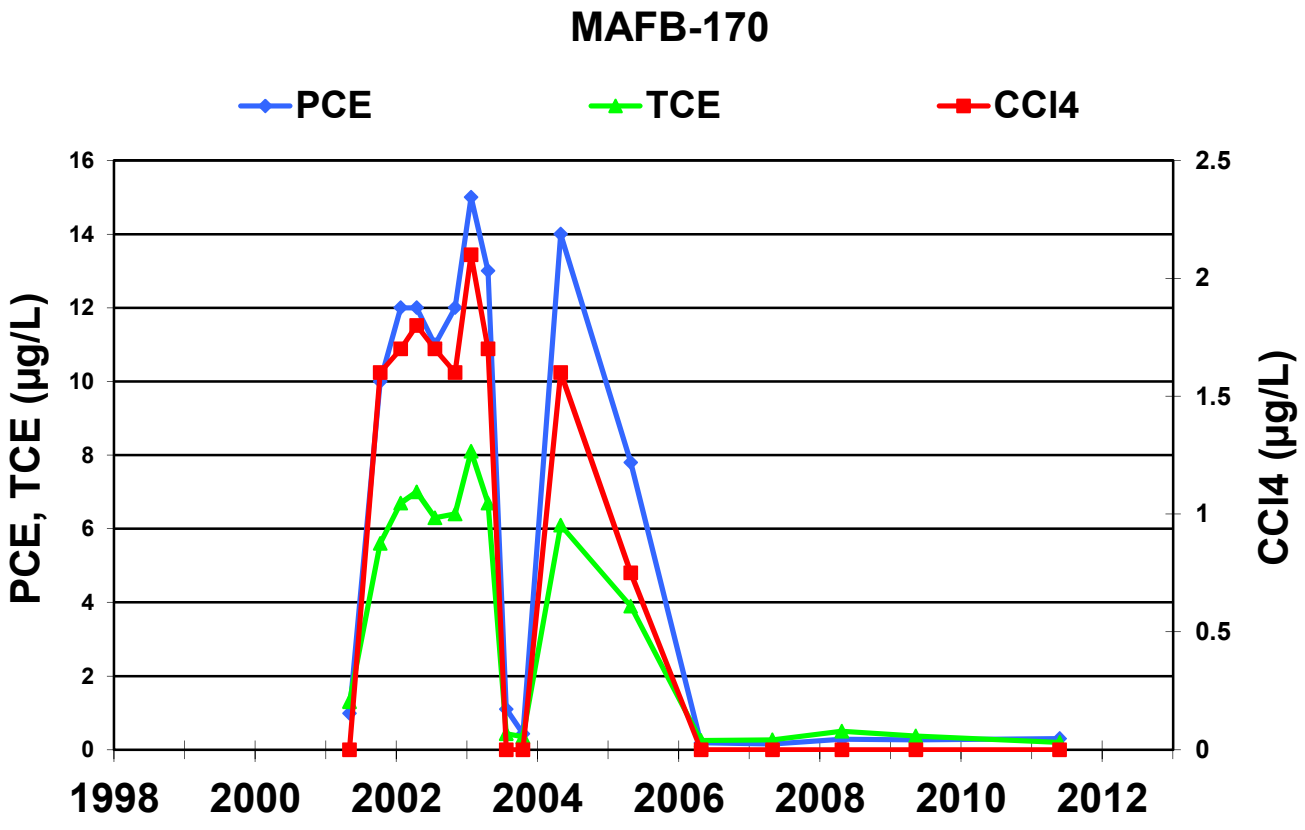

MAFB-165
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
18
16
14
12
10
8
6
4
2
0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

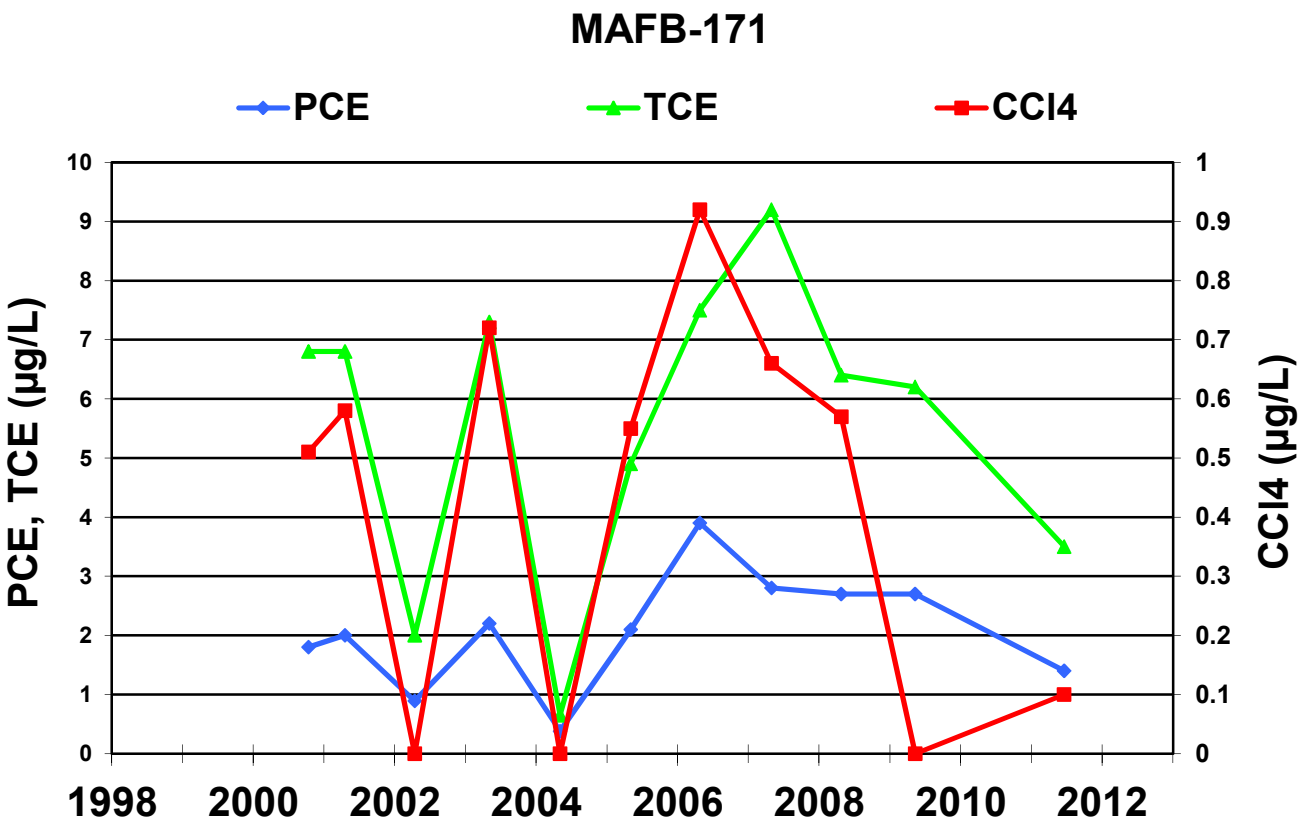

MAFB-166
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3
2.5
2
1.5
1
0.5
0
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1998
2000
2002
2004
2006
2008
2010
2012

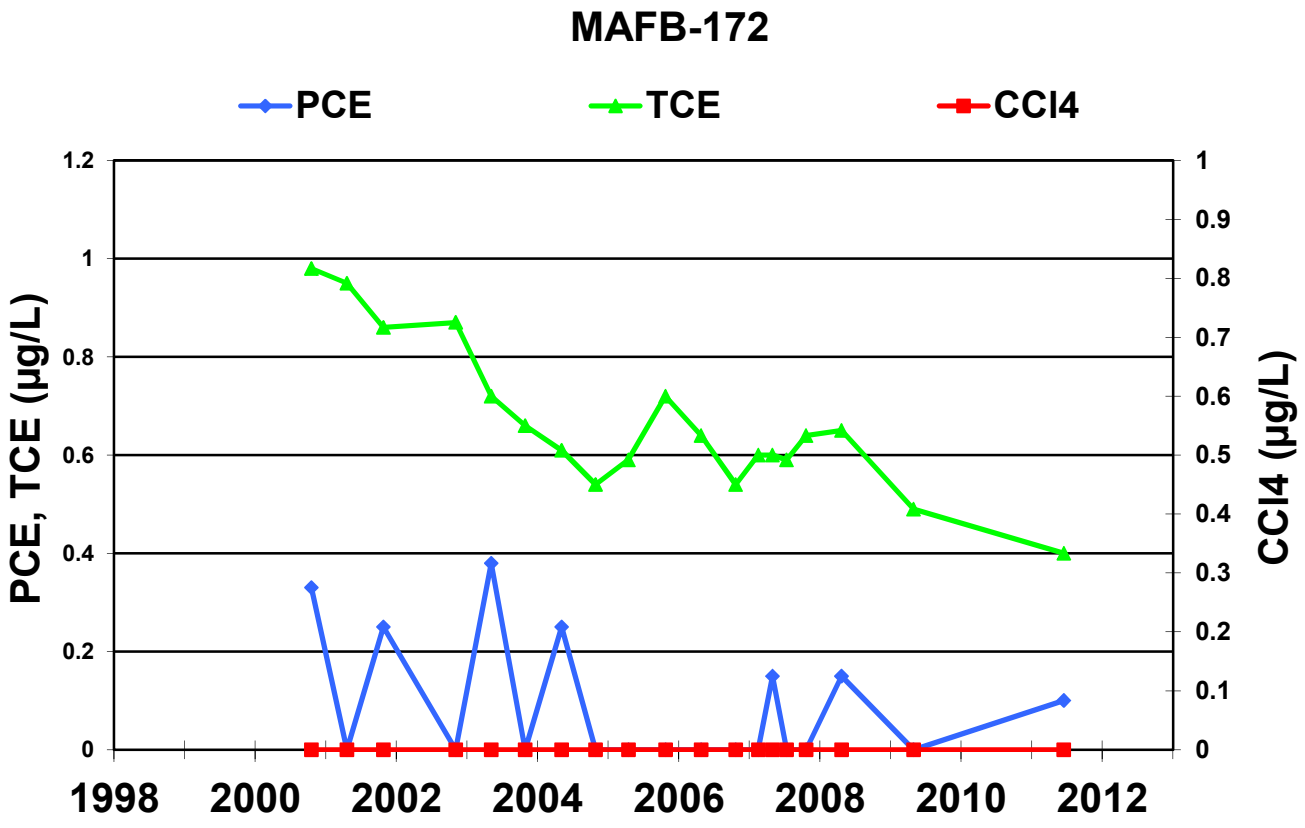

MAFB-167
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
90
80
70
60
50
40
30
20
10
0
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

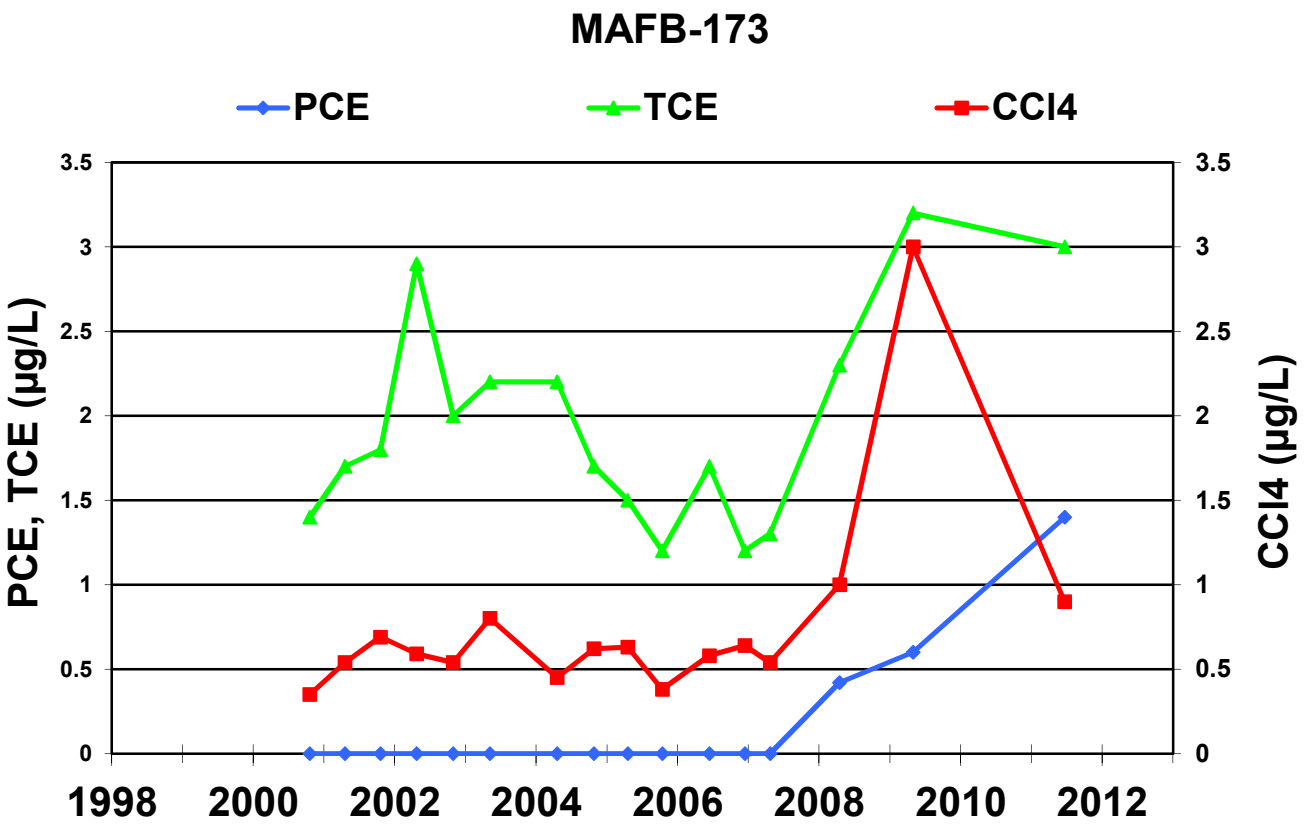

MAFB-168
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
60
50
40
30
20
10
0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

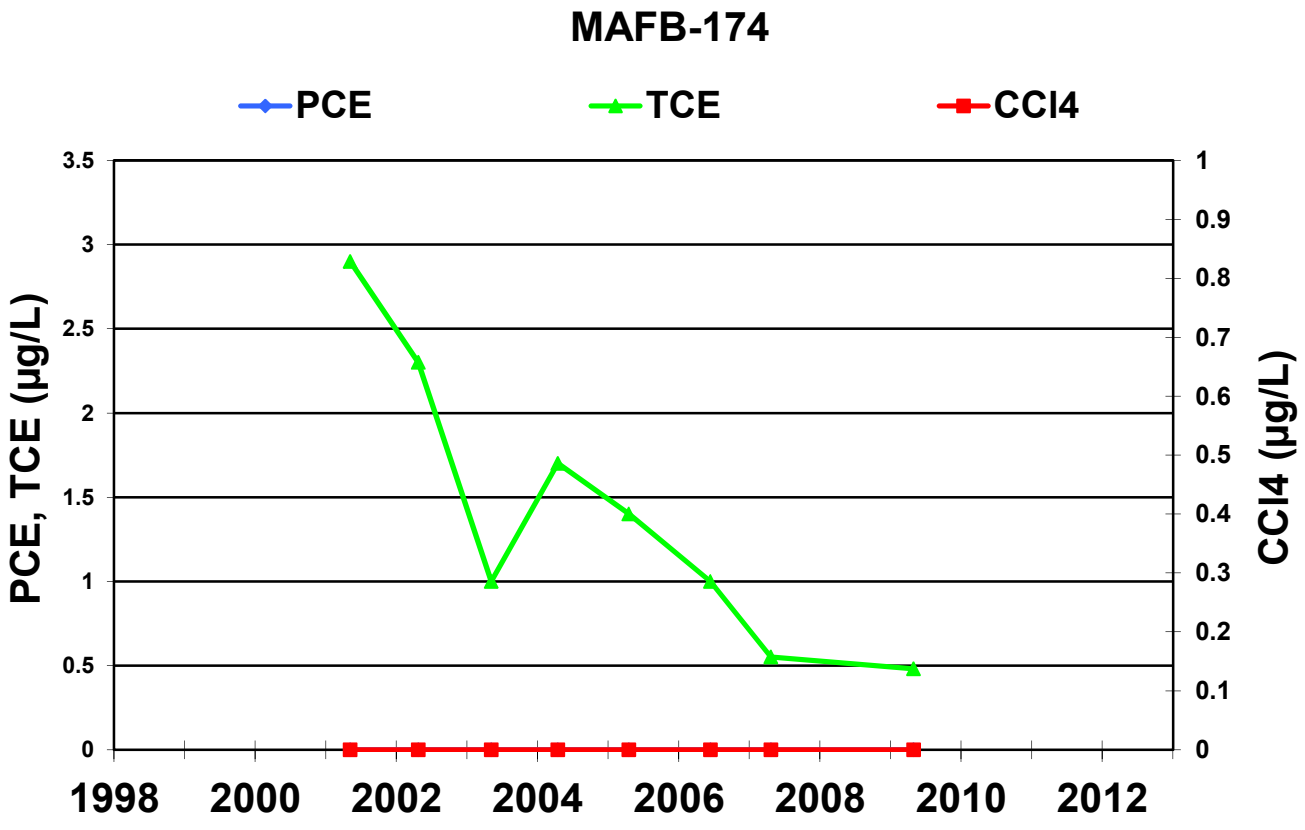

MAFB-169
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
45
40
35
30
25
20
15
10
5
0
3.5
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

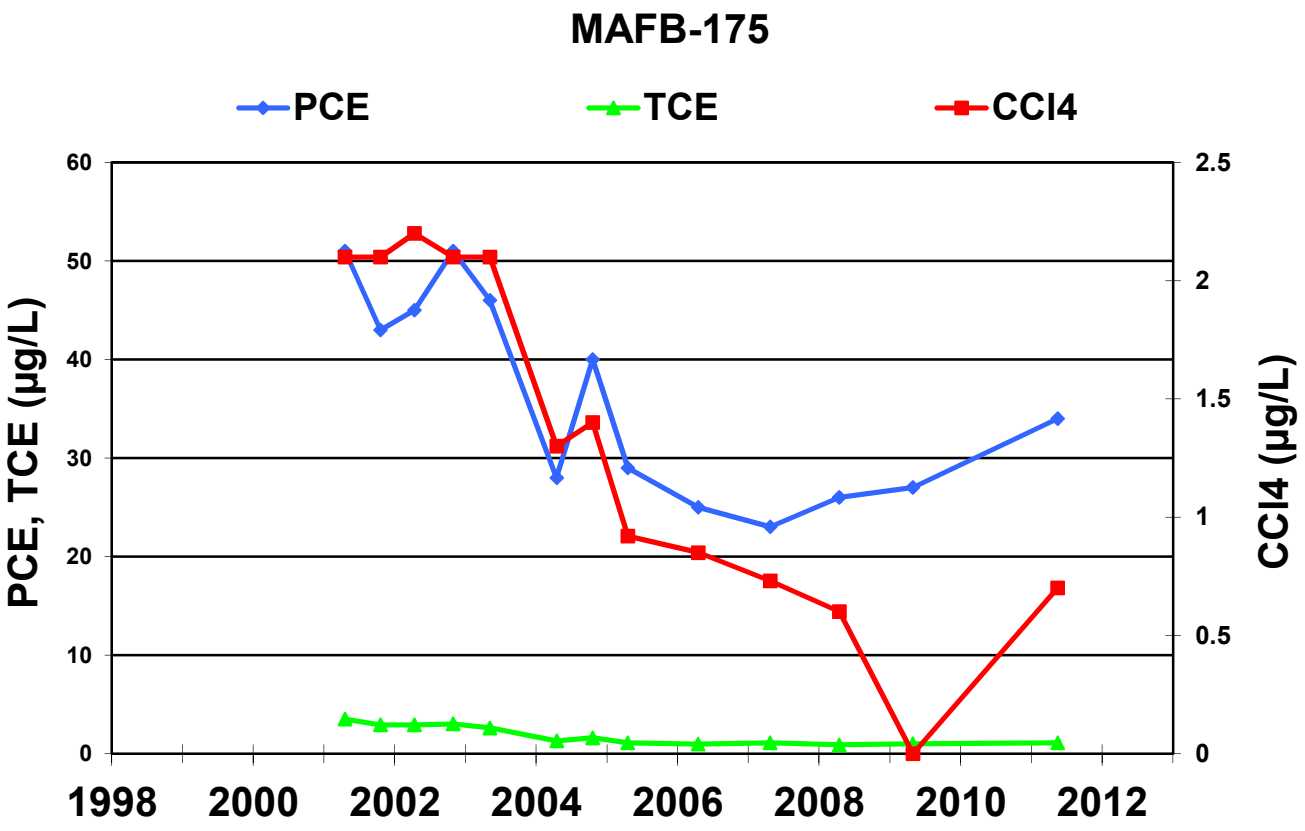

MAFB-170
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
16
14
12
10
8
6
4
2
0
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

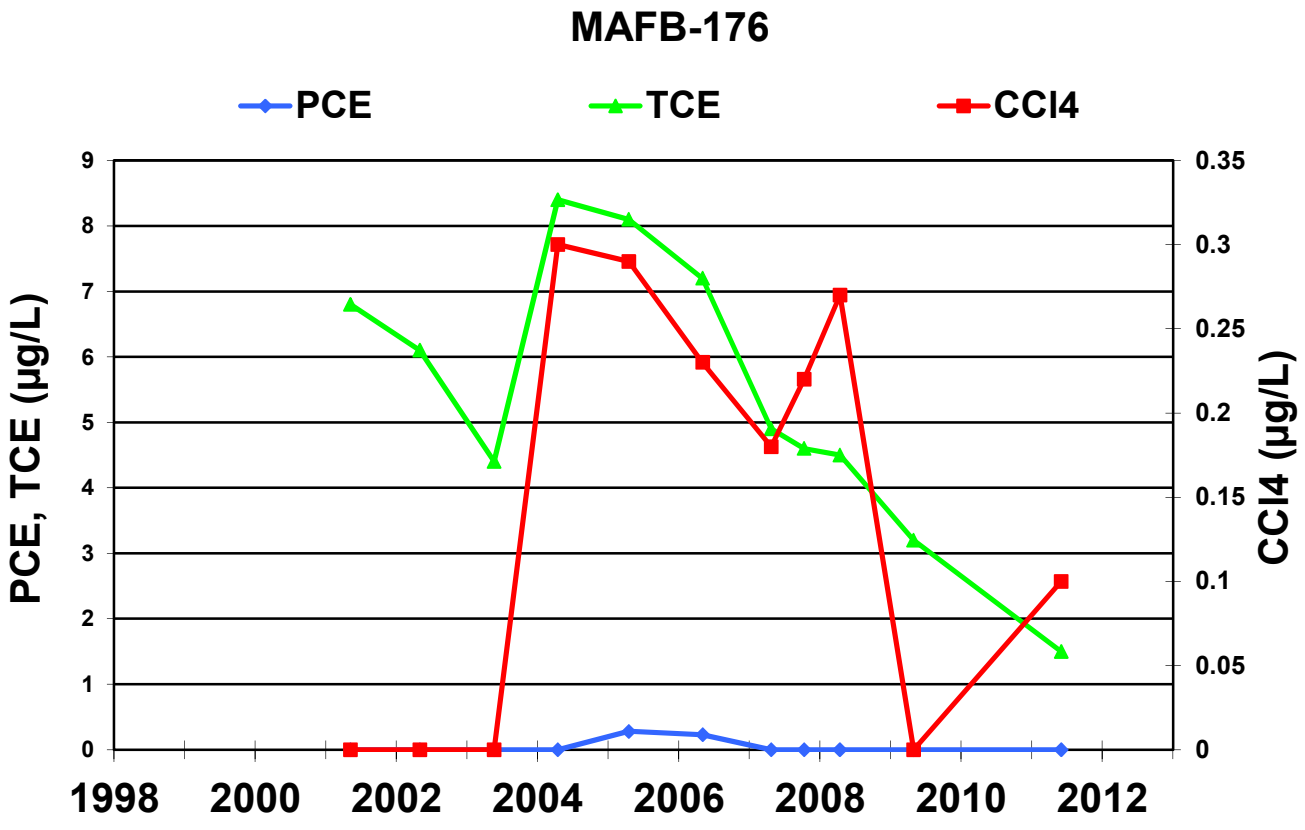

MAFB-171
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
10
9
8
7
6
5
4
3
2
1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

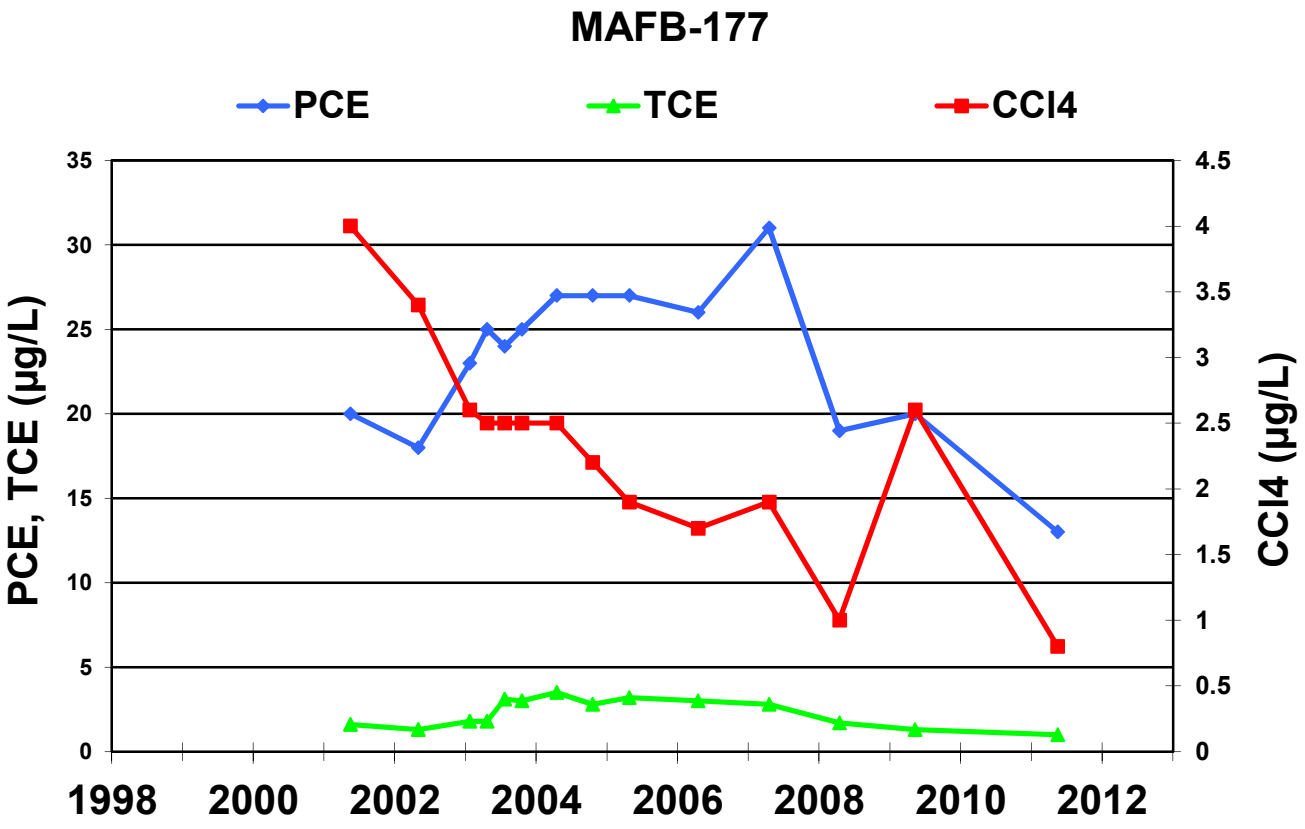

MAFB-172
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

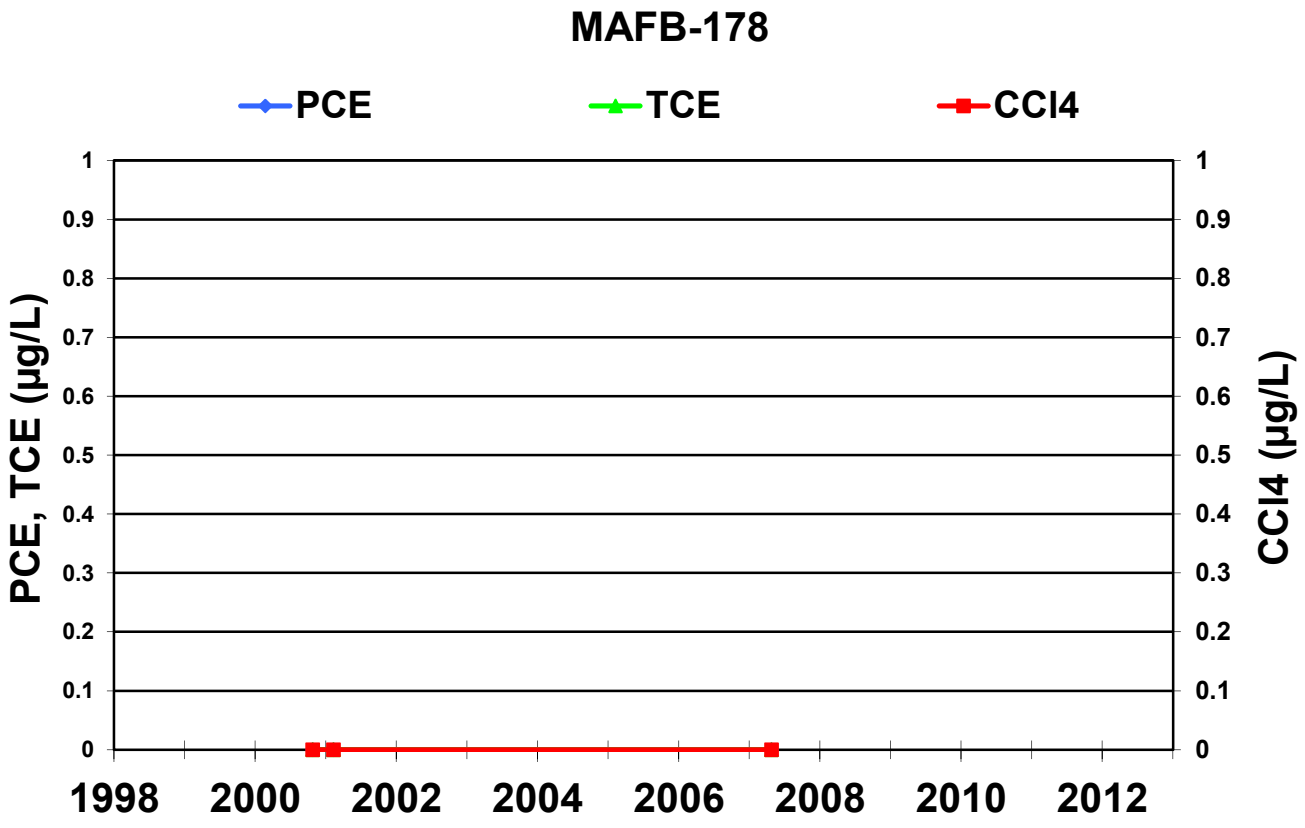

MAFB-173
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3.5
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

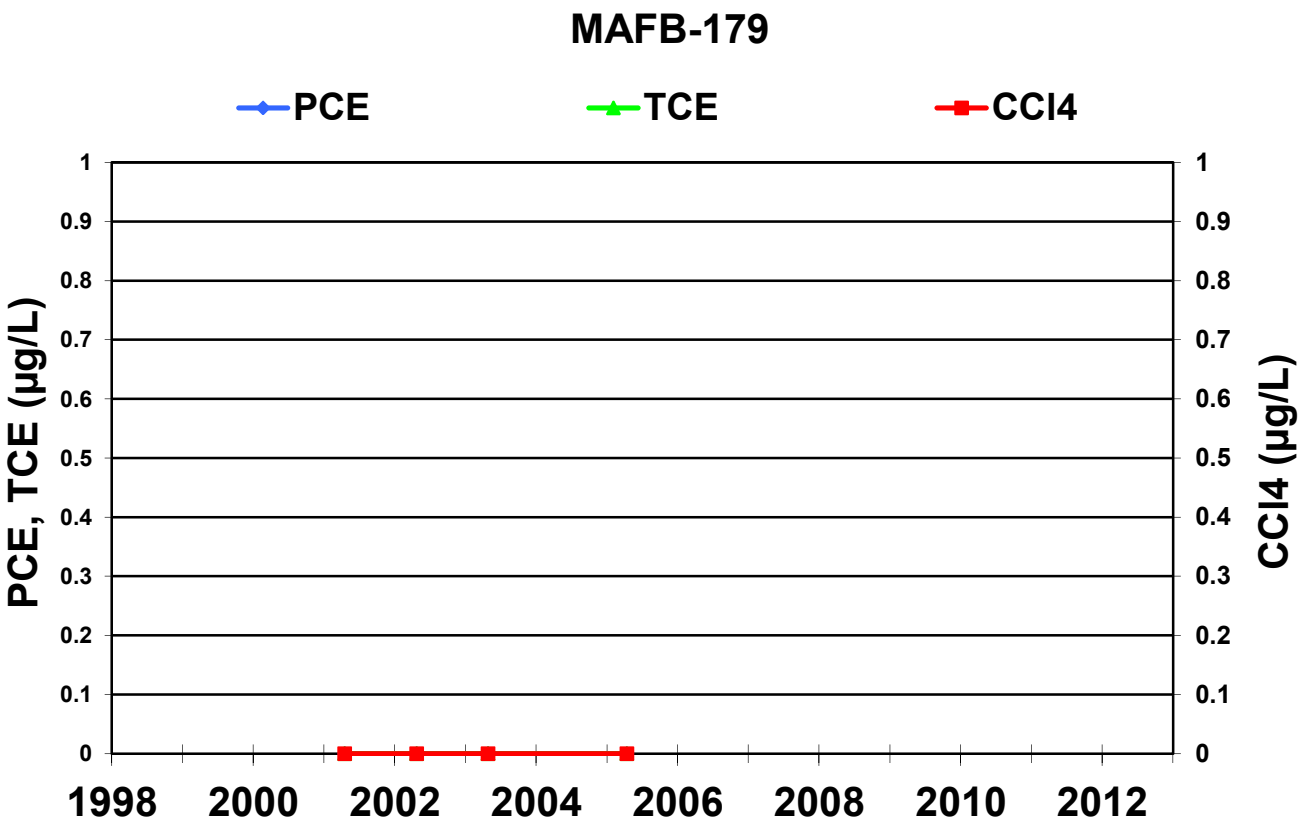

MAFB-174
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

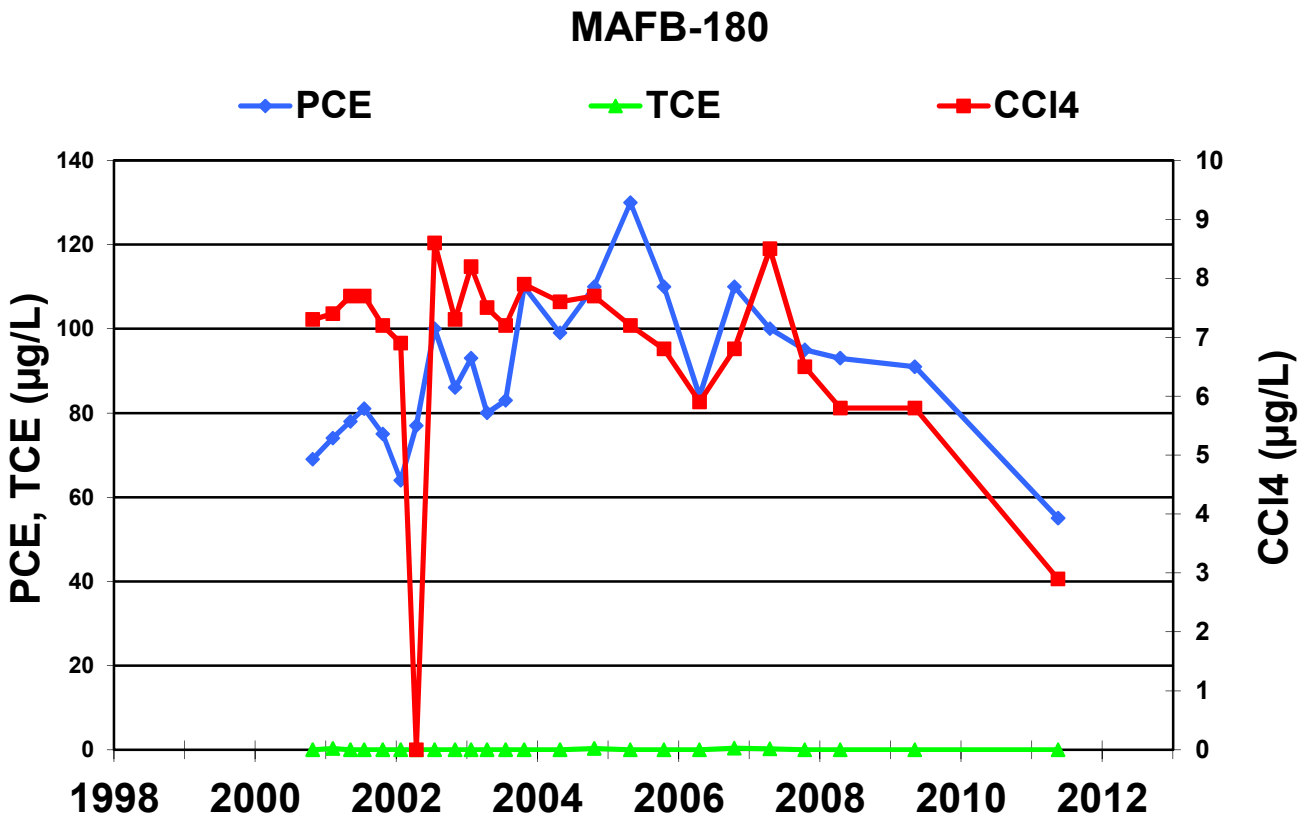

MAFB-175
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
60
50
40
30
20
10
0
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

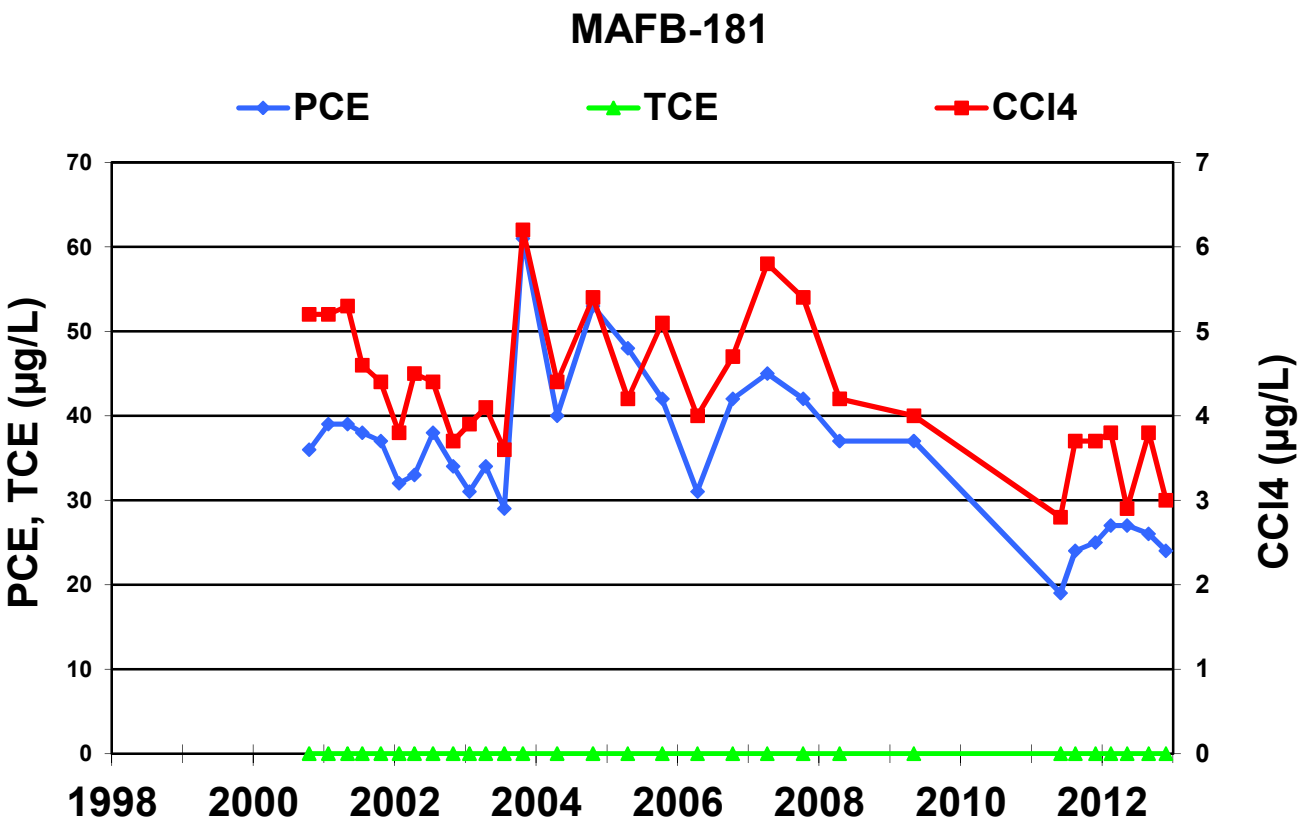

MAFB-176
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
9
8
7
6
5
4
3
2
1
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

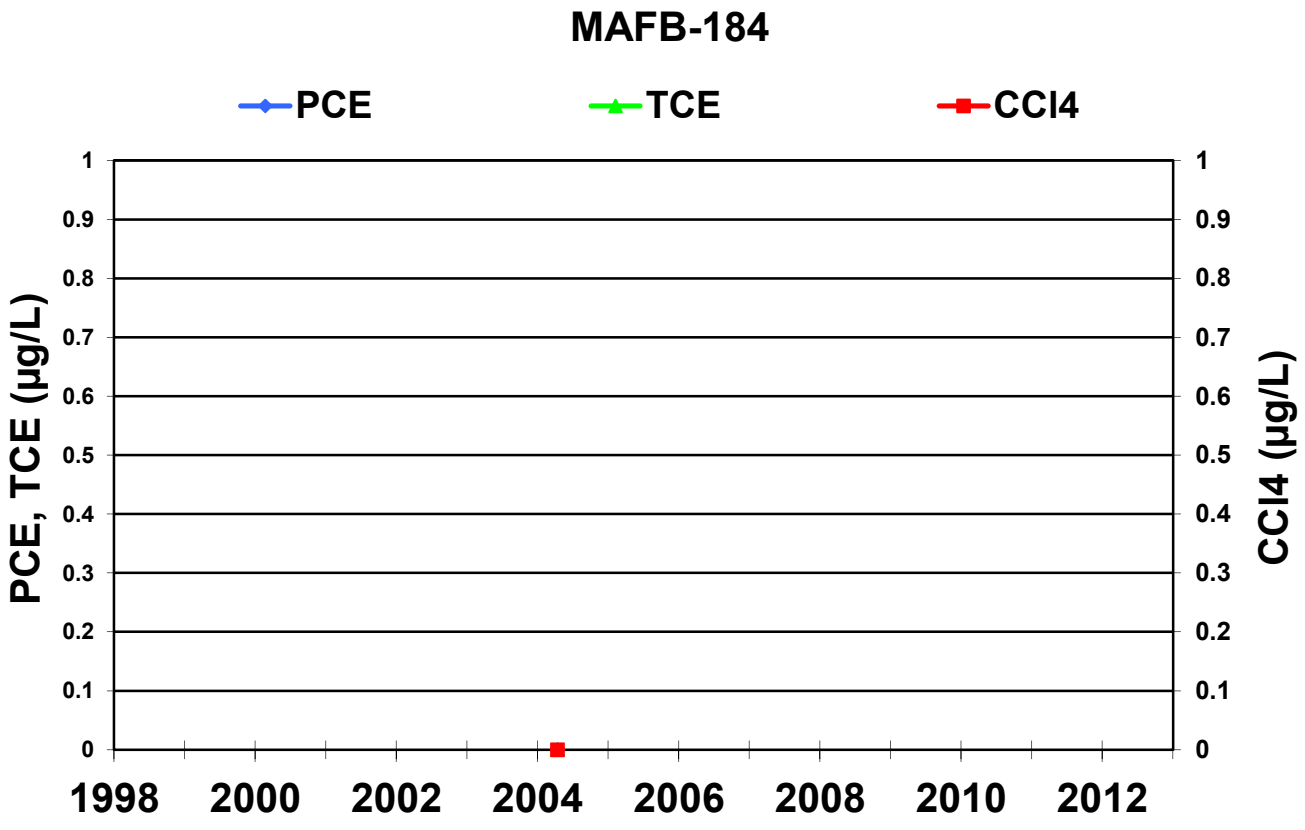

MAFB-177
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
35
30
25
20
15
10
5
0
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

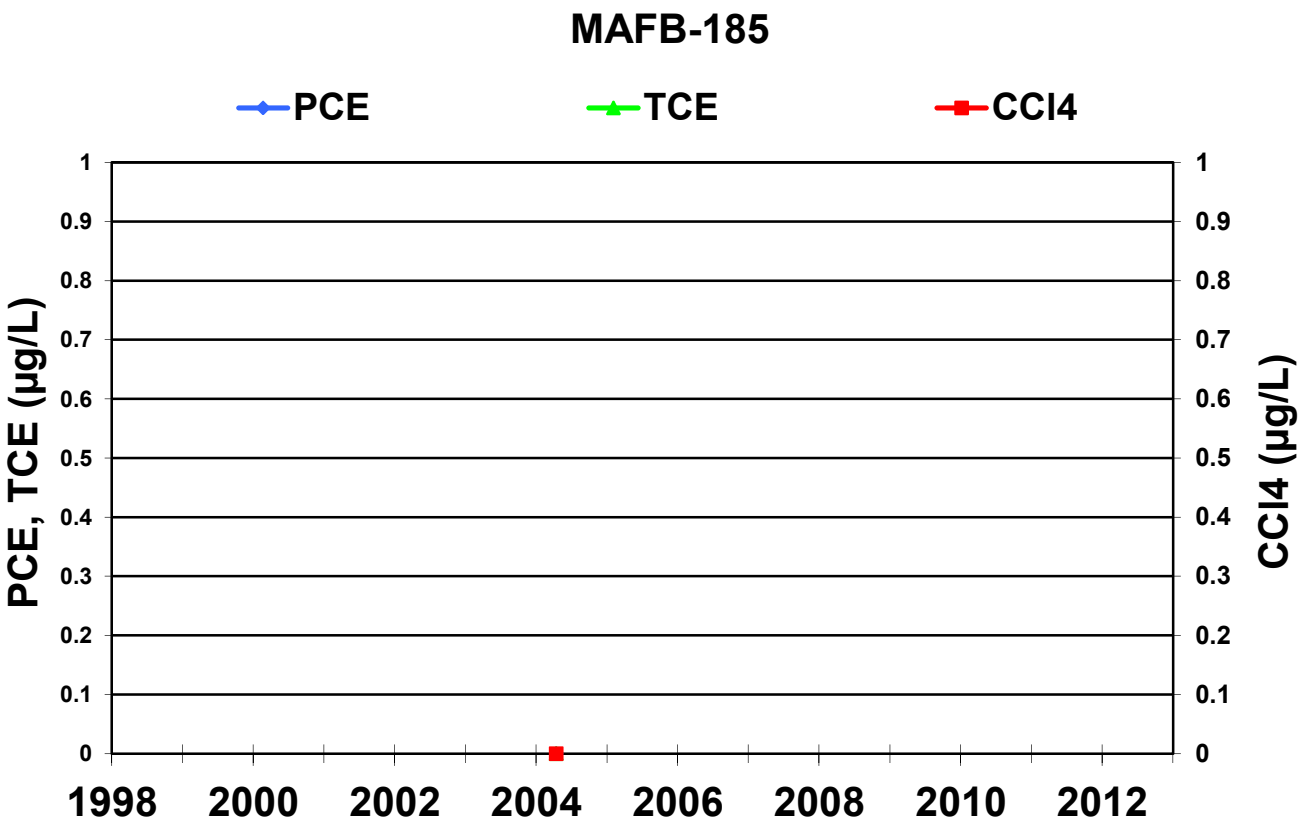

MAFB-178
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

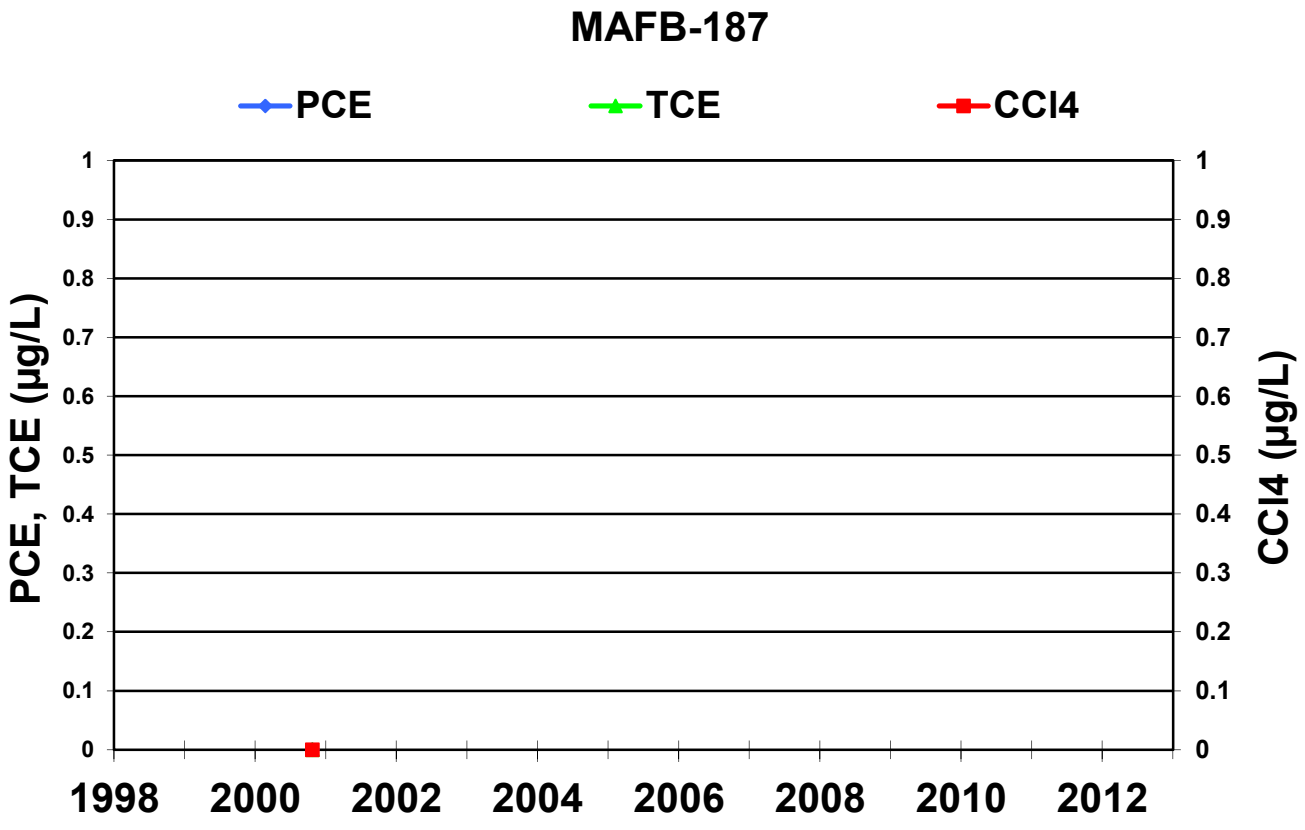

MAFB-179
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

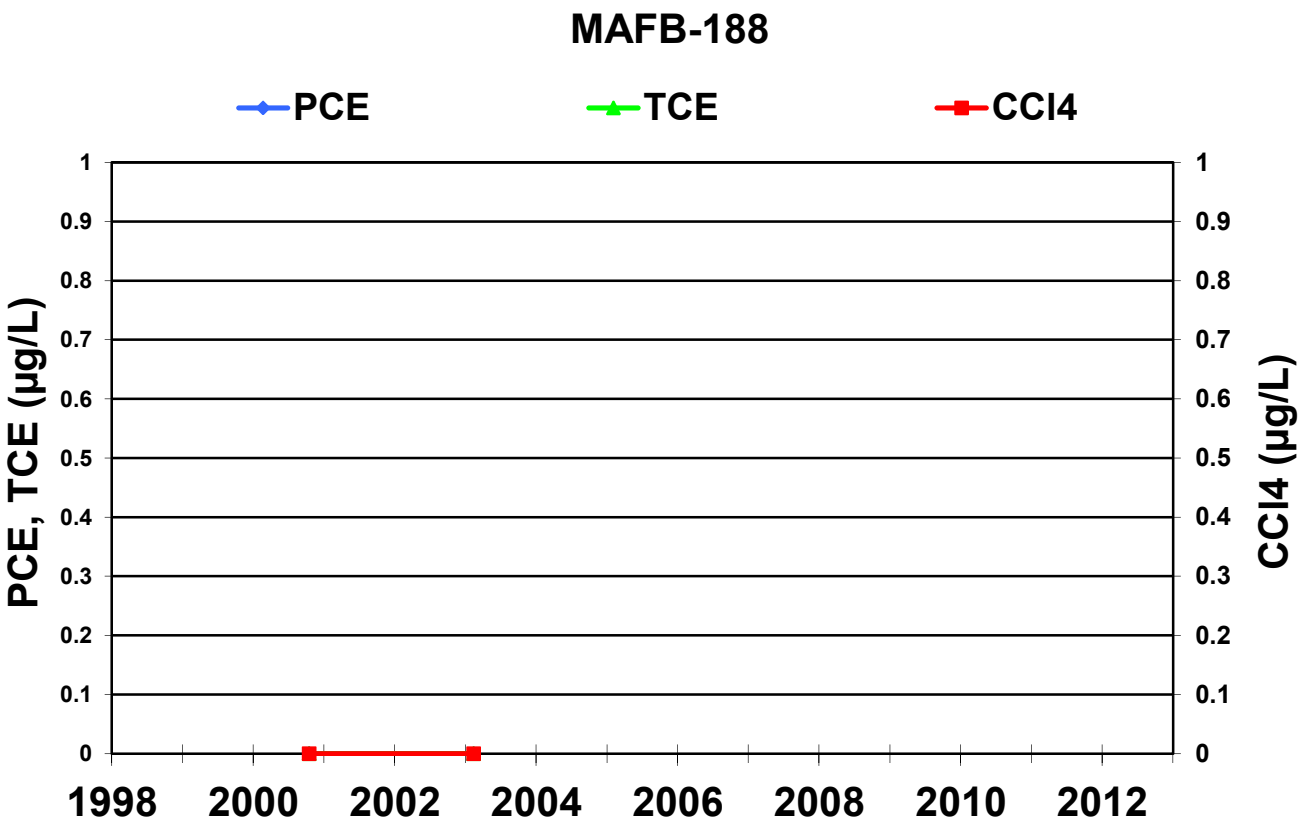

MAFB-180
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
140
120
100
80
60
40
20
0
10
9
8
7
6
5
4
3
2
1
0
1998
2000
2002
2004
2006
2008
2010
2012

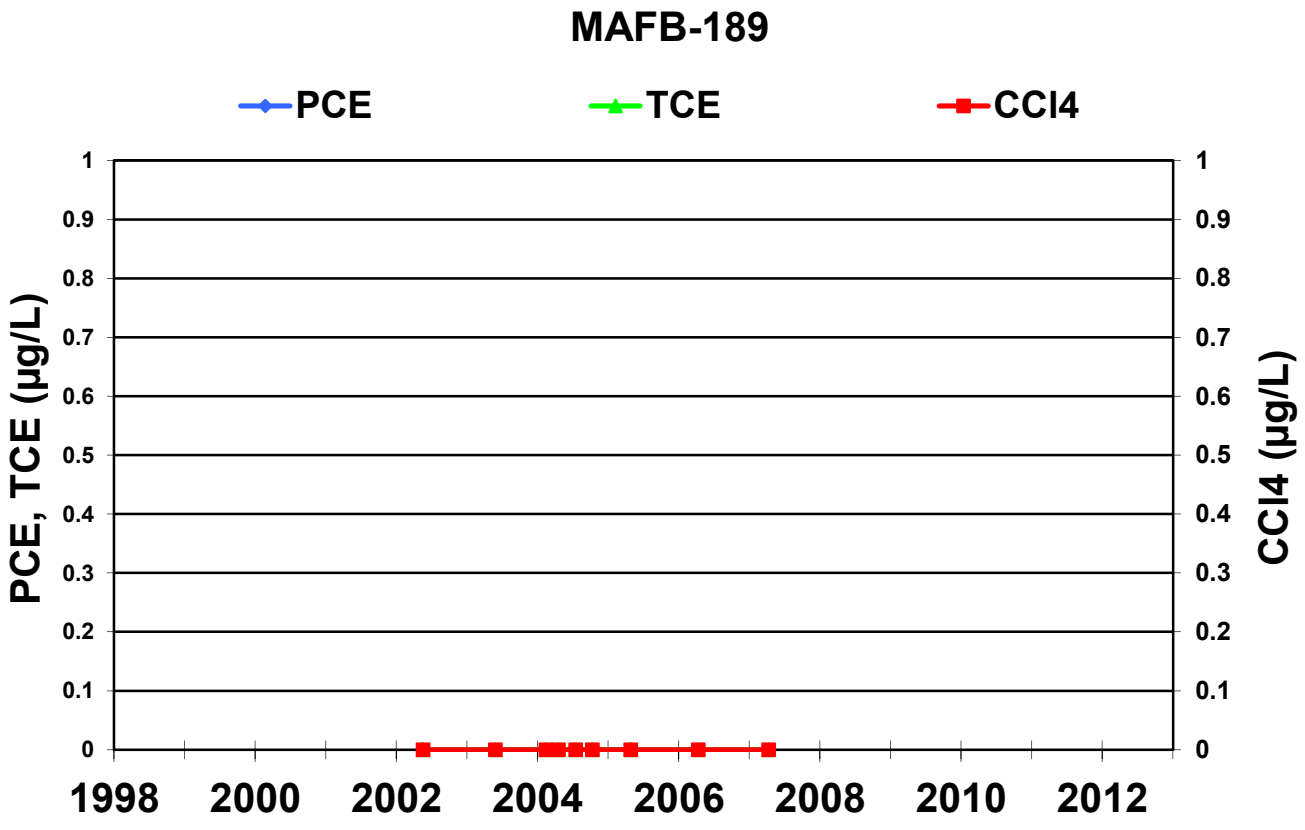

MAFB-181
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
70
60
50
40
30
20
10
0
7
6
5
4
3
2
1
0
1998
2000
2002
2004
2006
2008
2010
2012

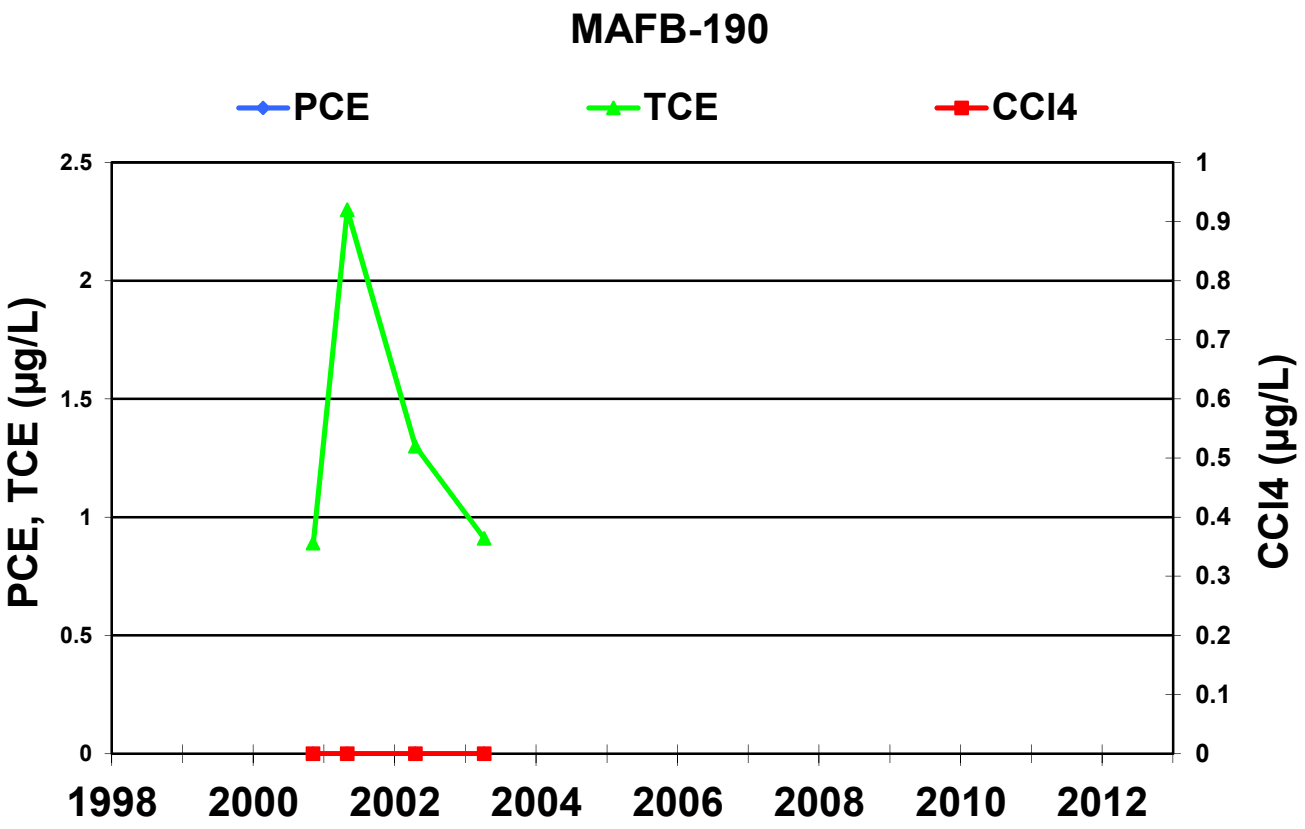

MAFB-184
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

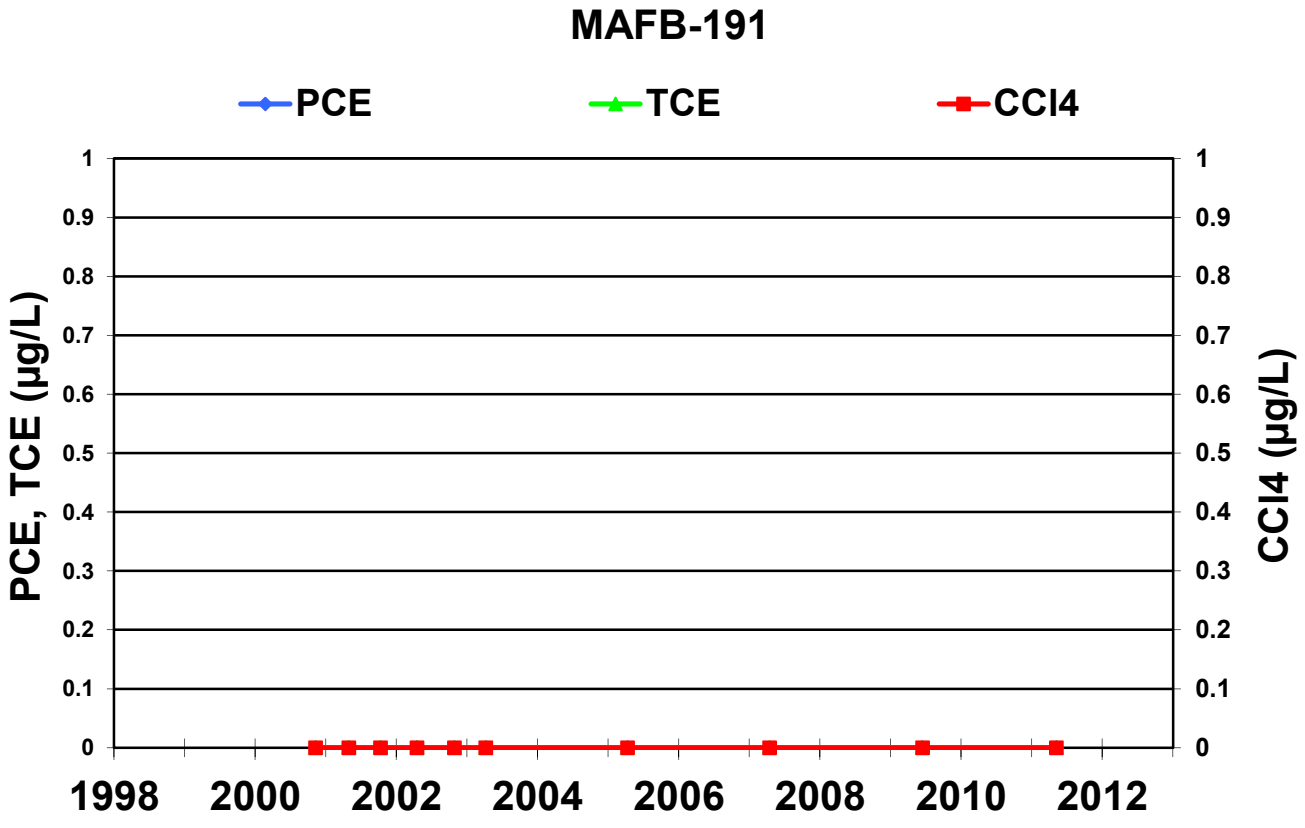

MAFB-185
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

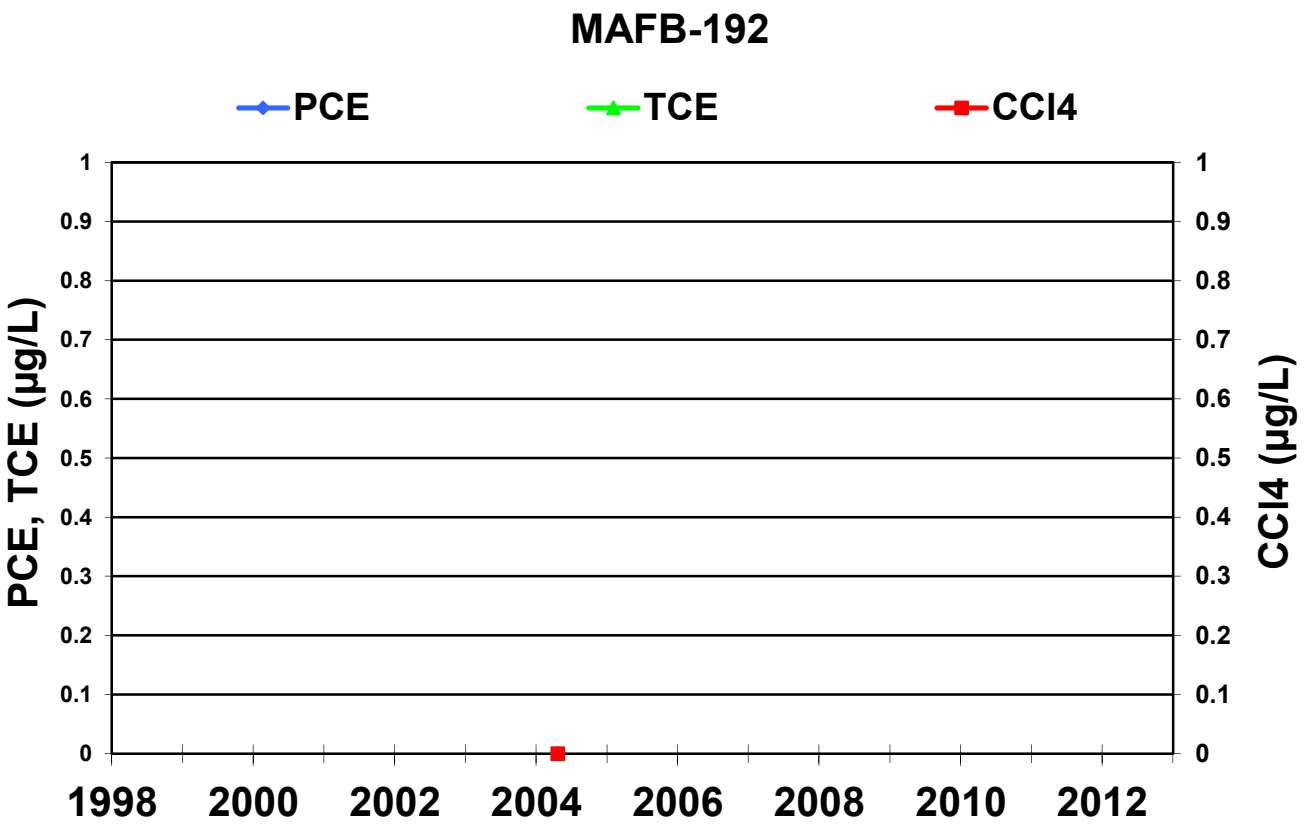

MAFB-187
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

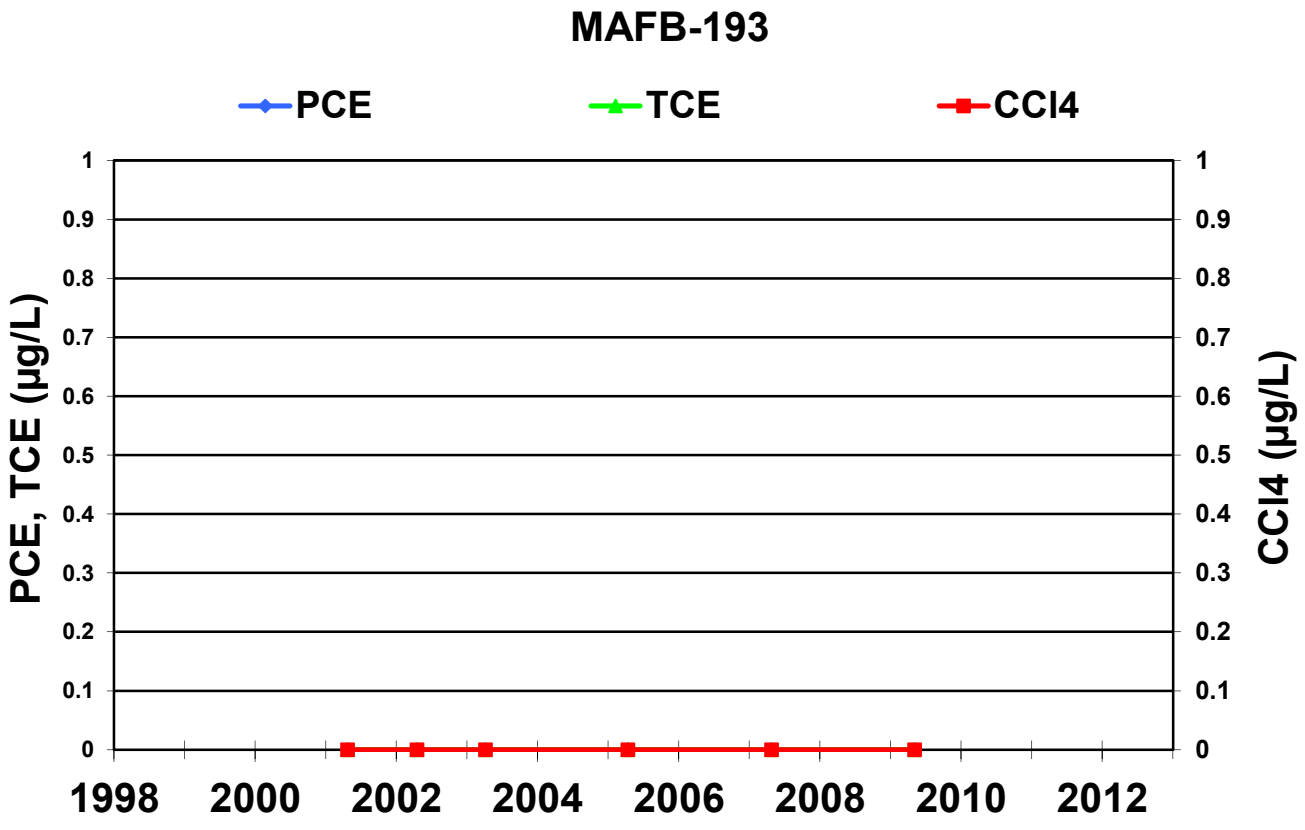

MAFB-188
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

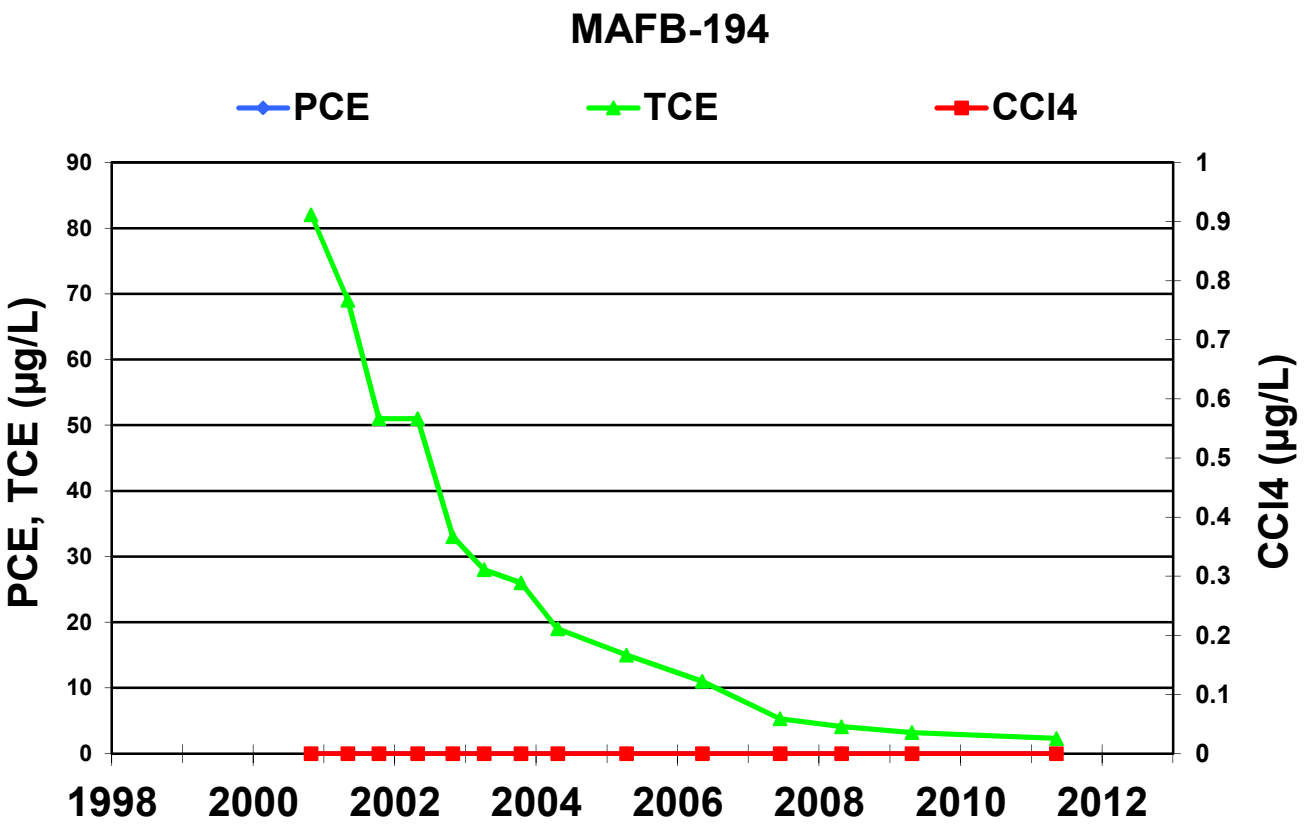

MAFB-189
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

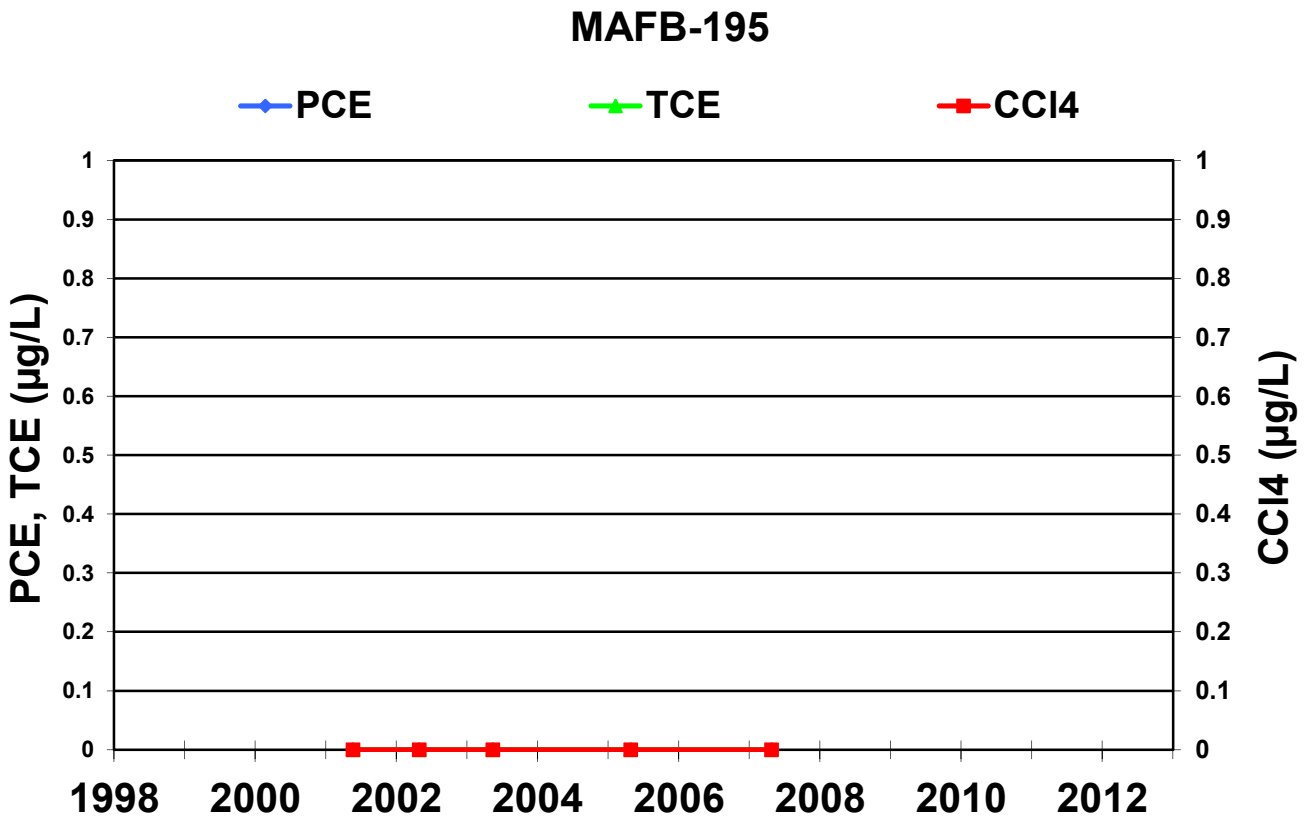

MAFB-190
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

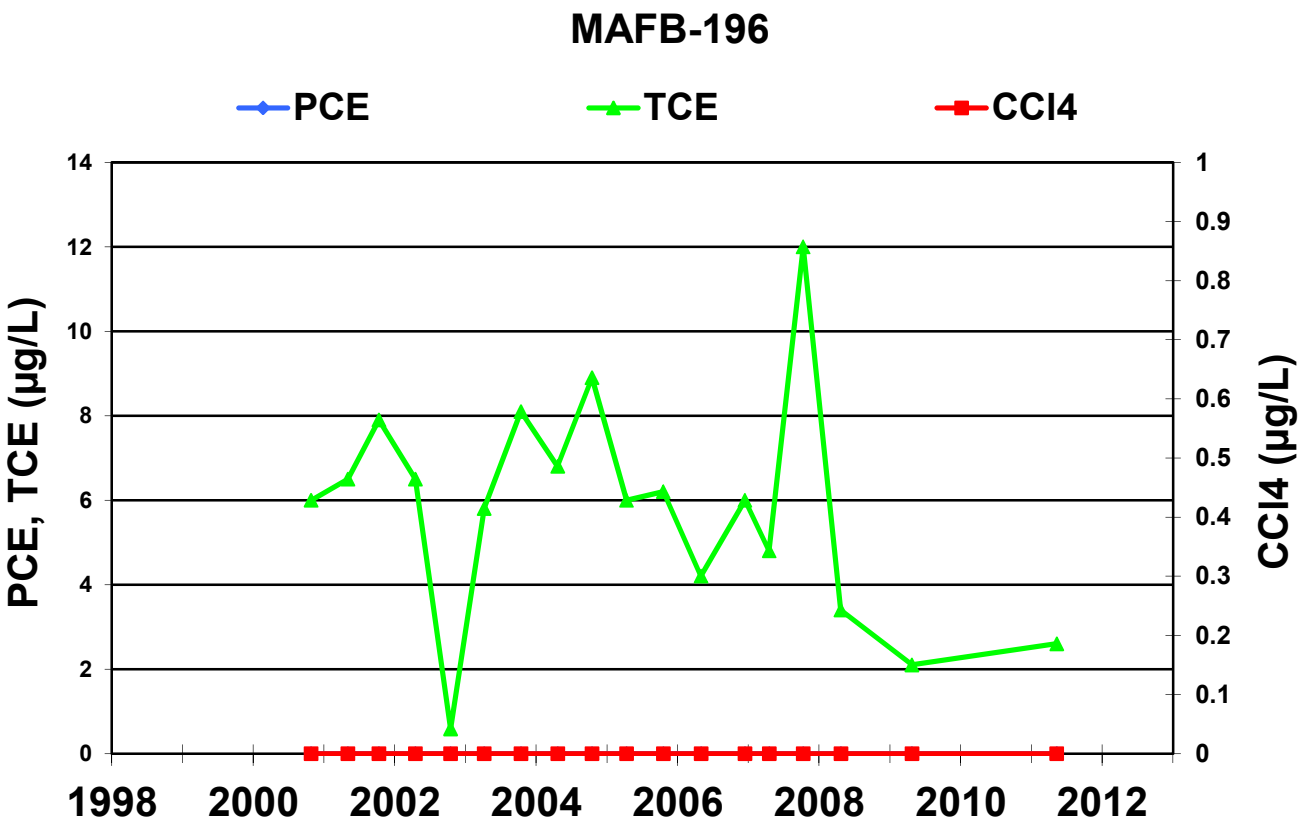

MAFB-191
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

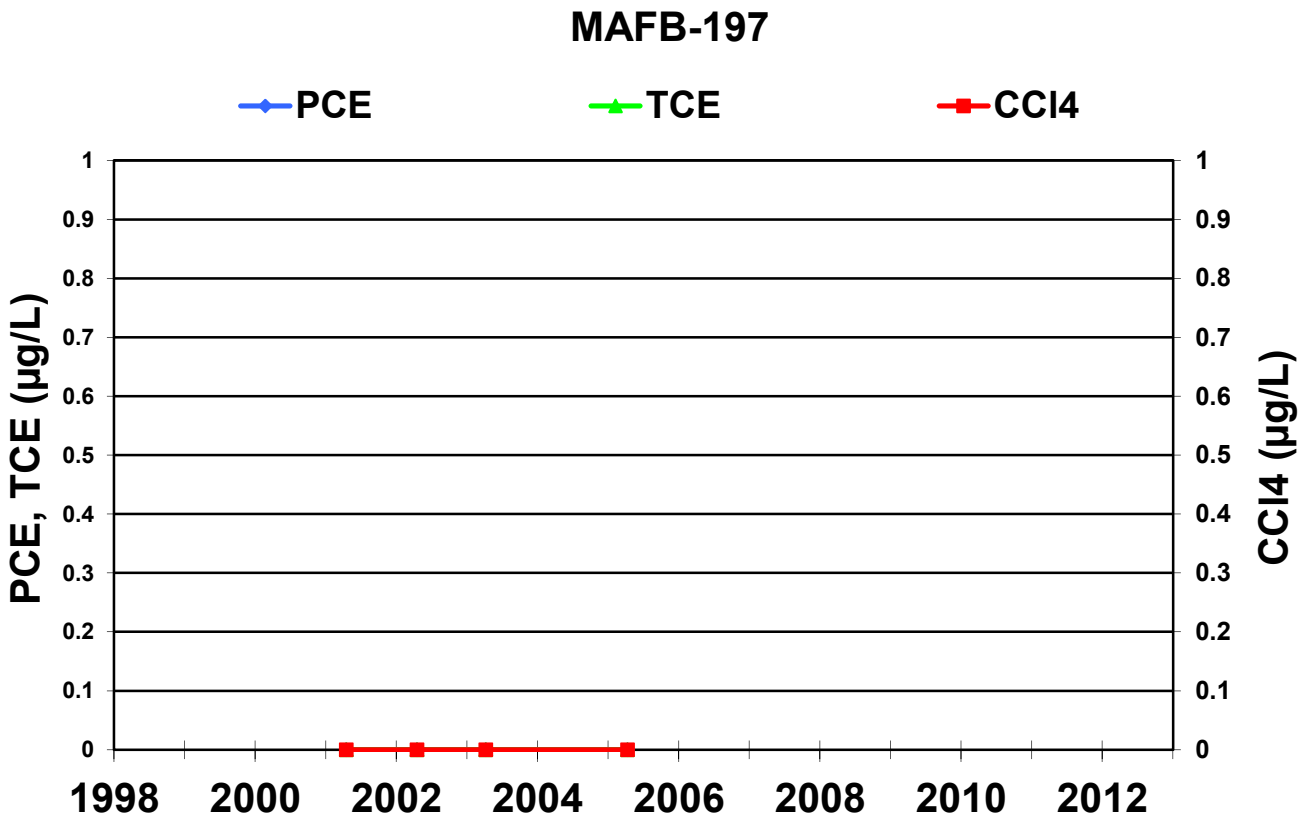

MAFB-192
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

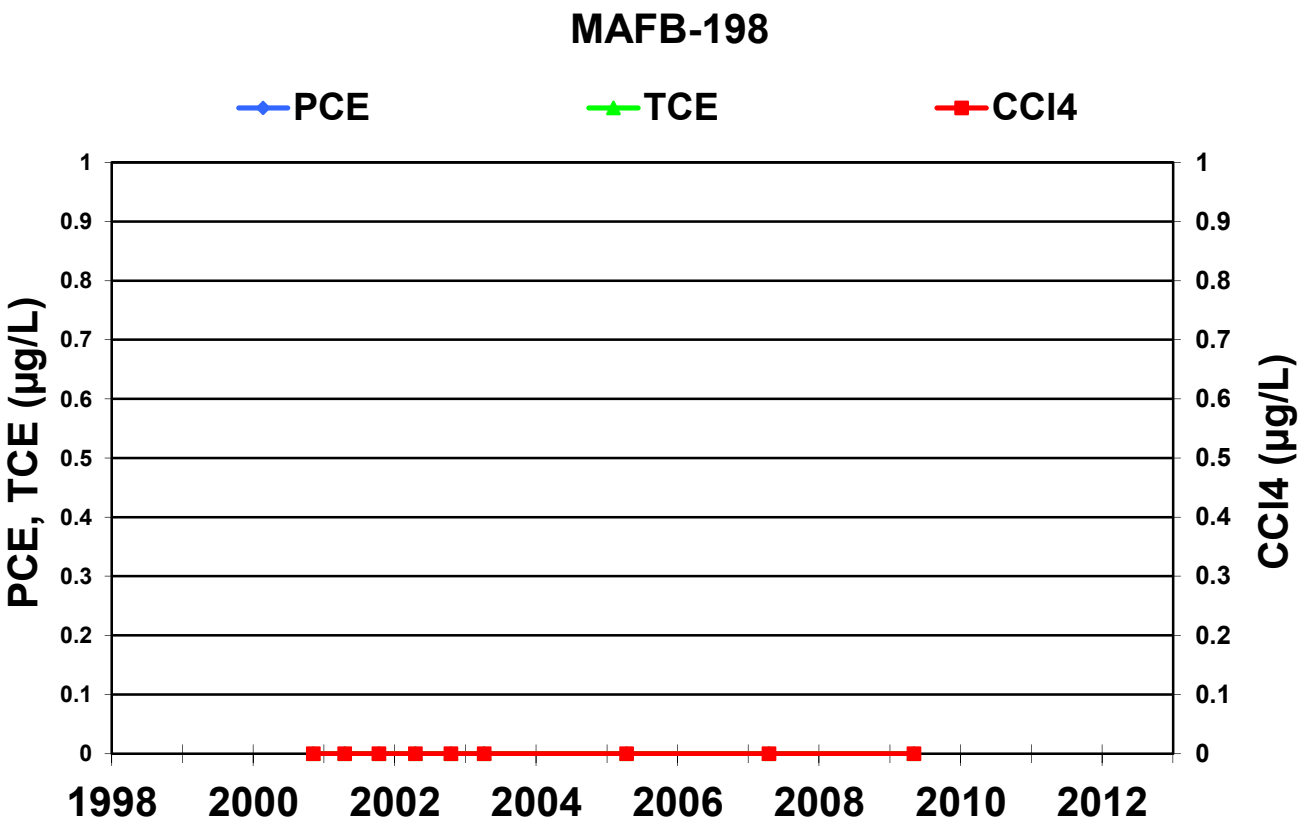

MAFB-193
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

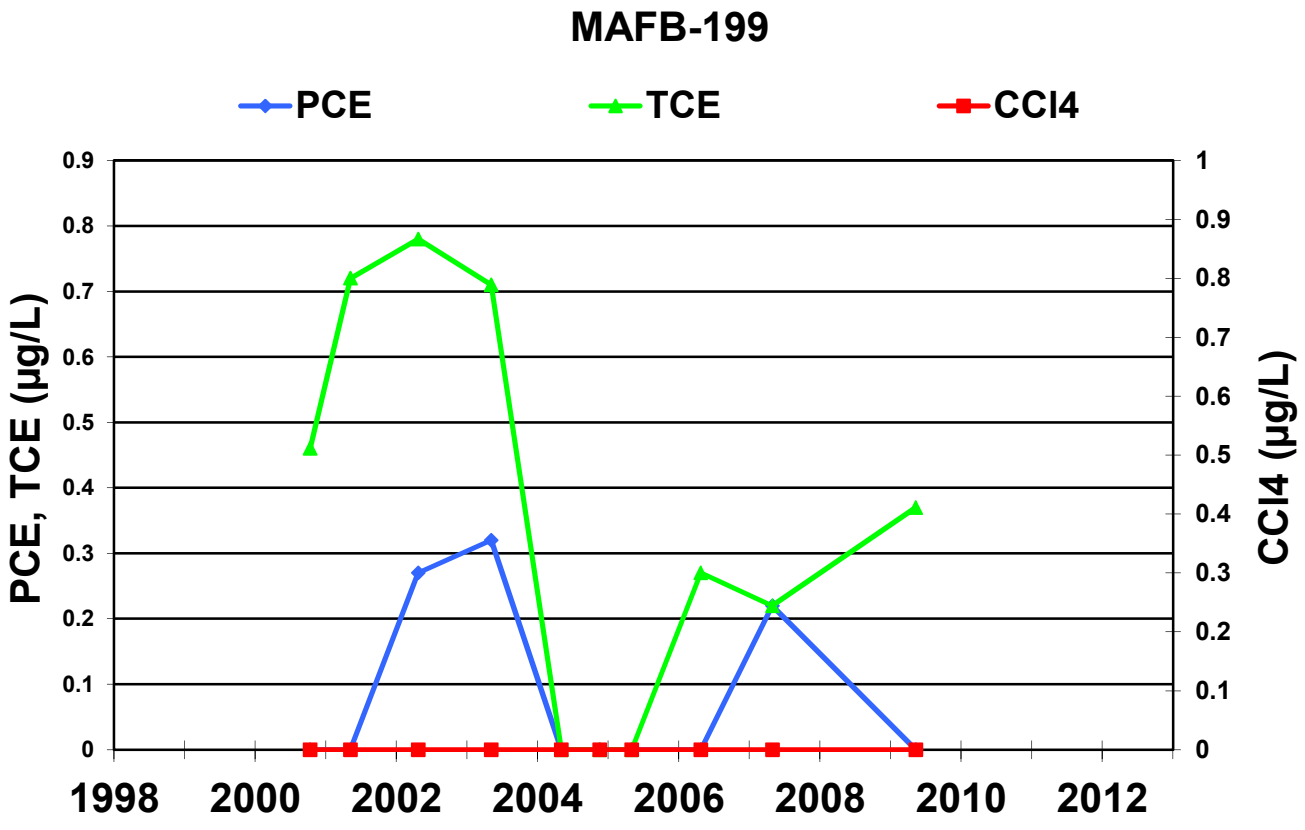

MAFB-194
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
90
80
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

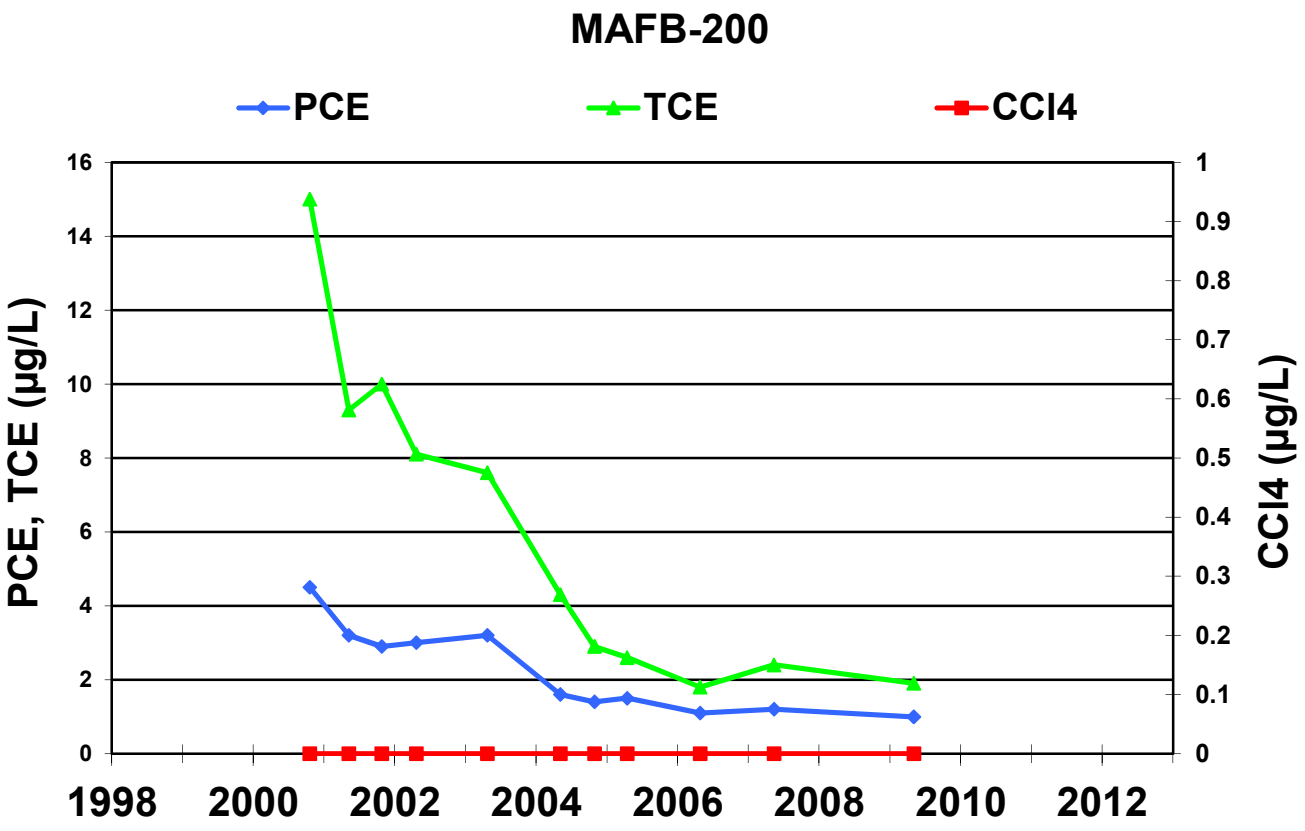

MAFB-195
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

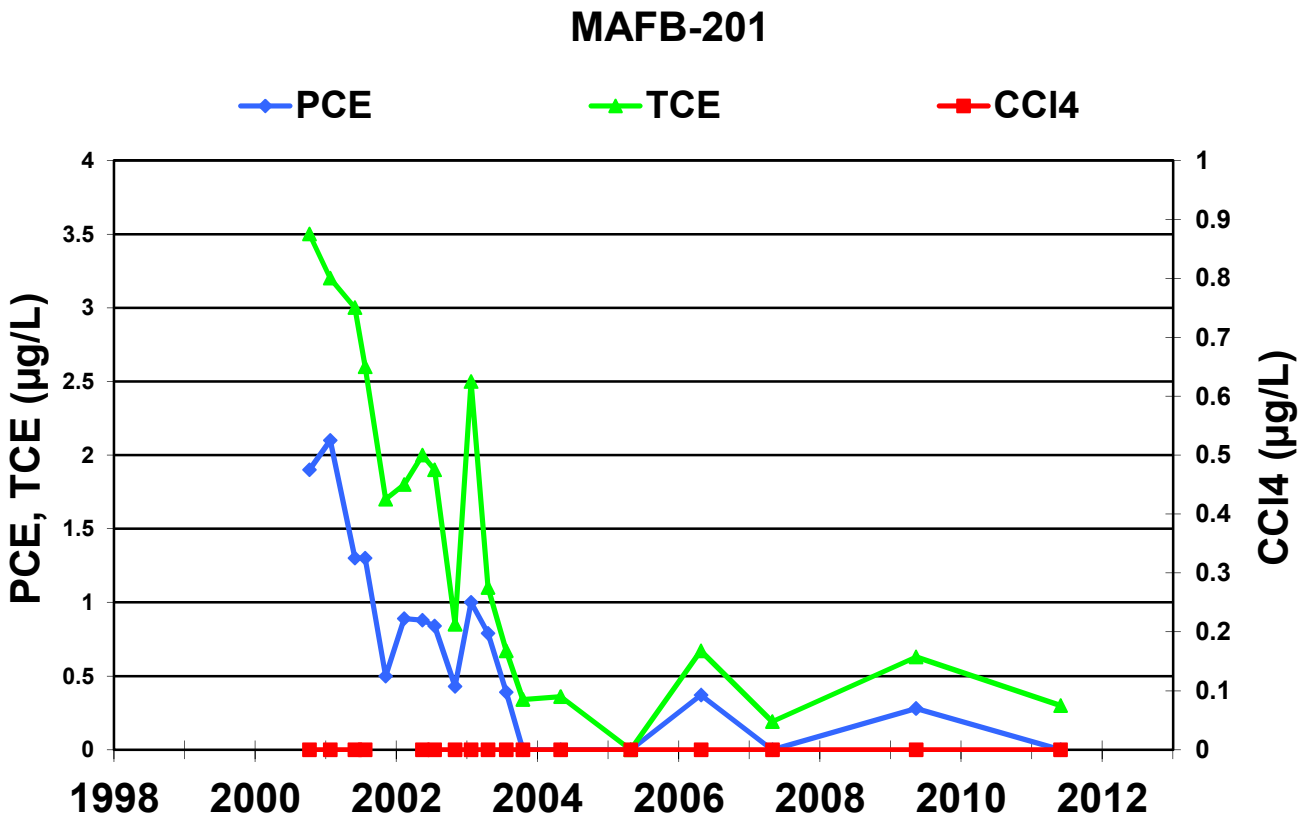

MAFB-196
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

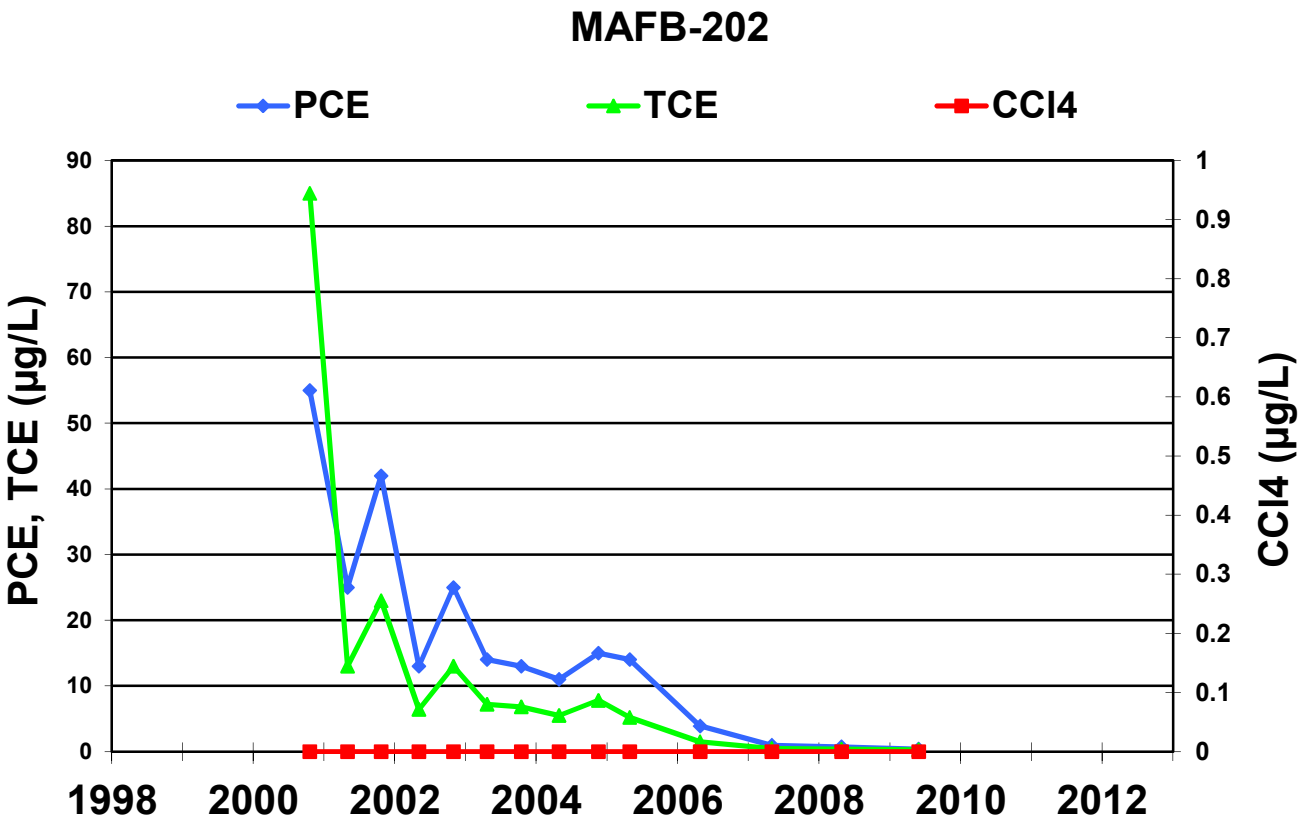

MAFB-197
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

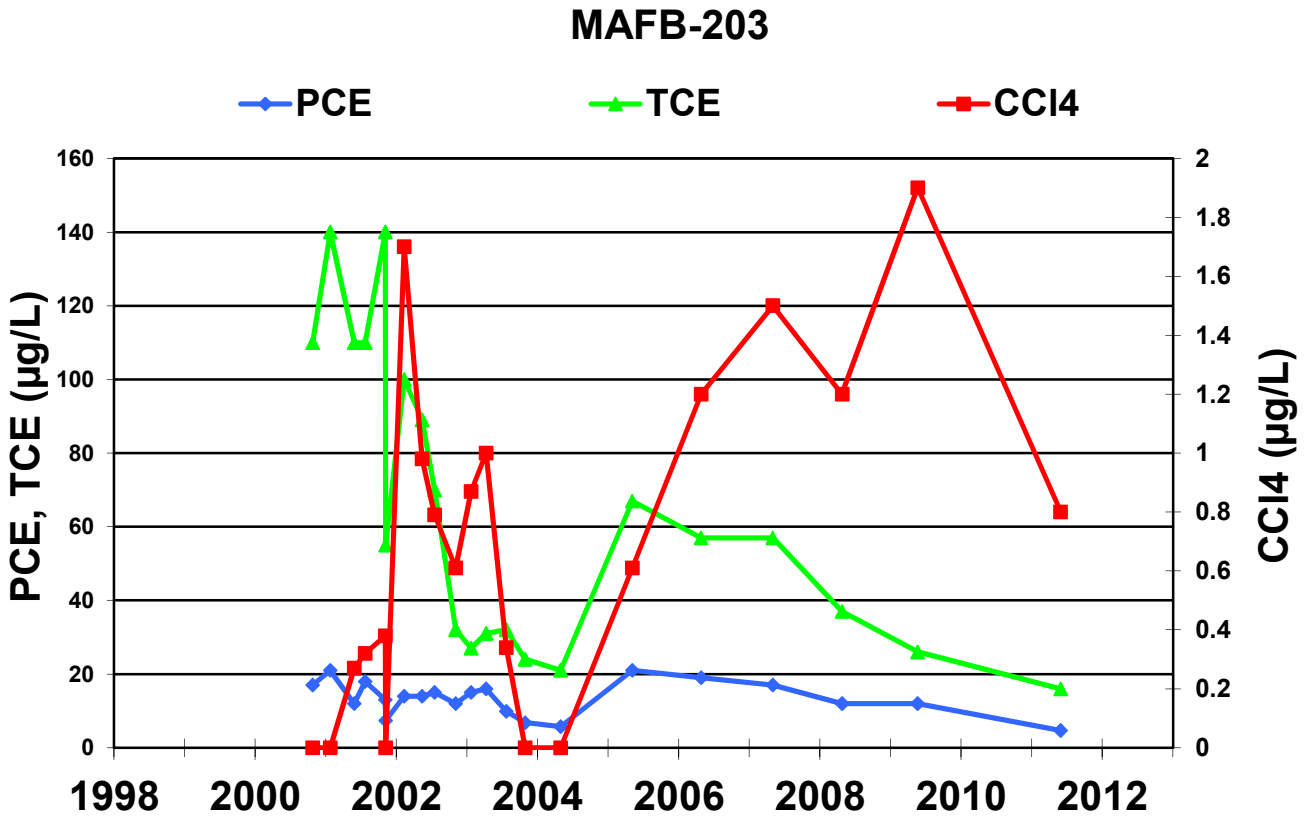

MAFB-198
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

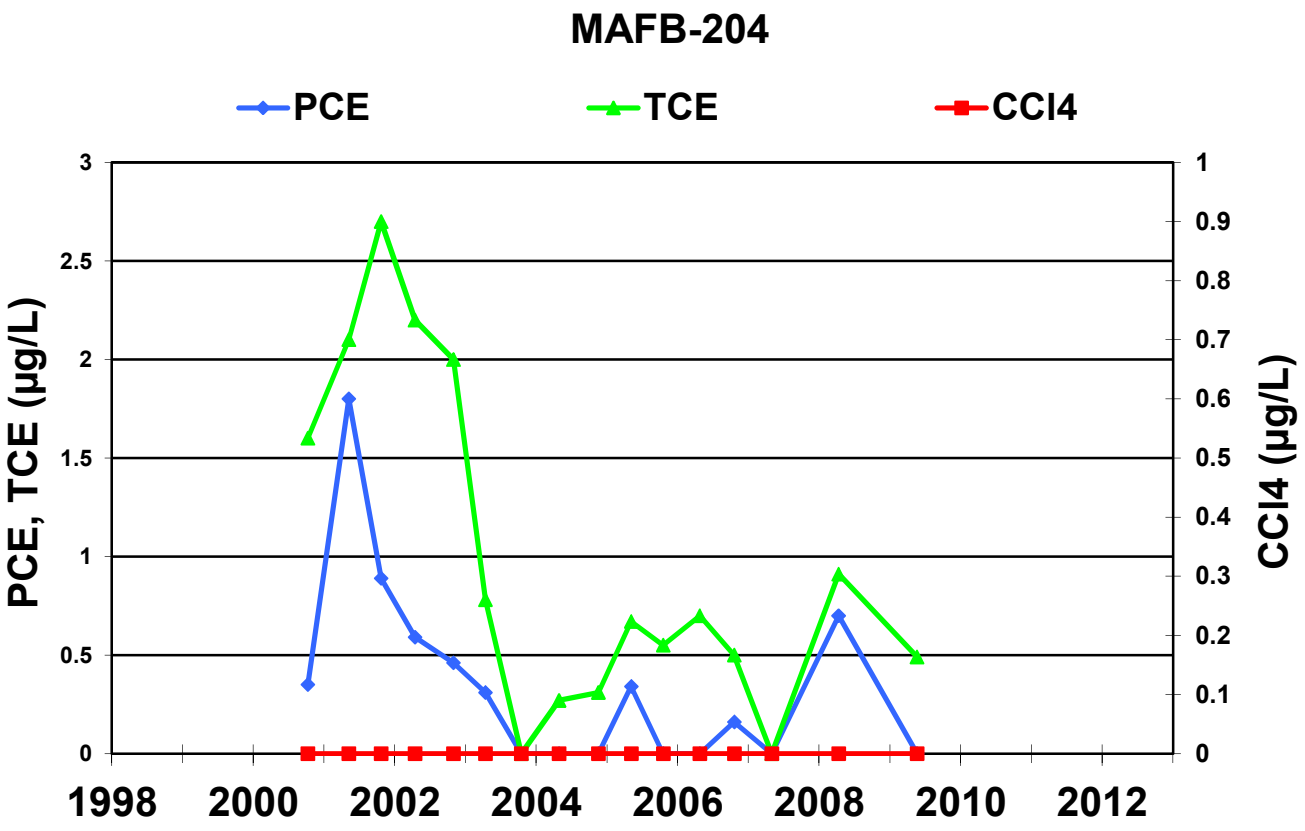

MAFB-199
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

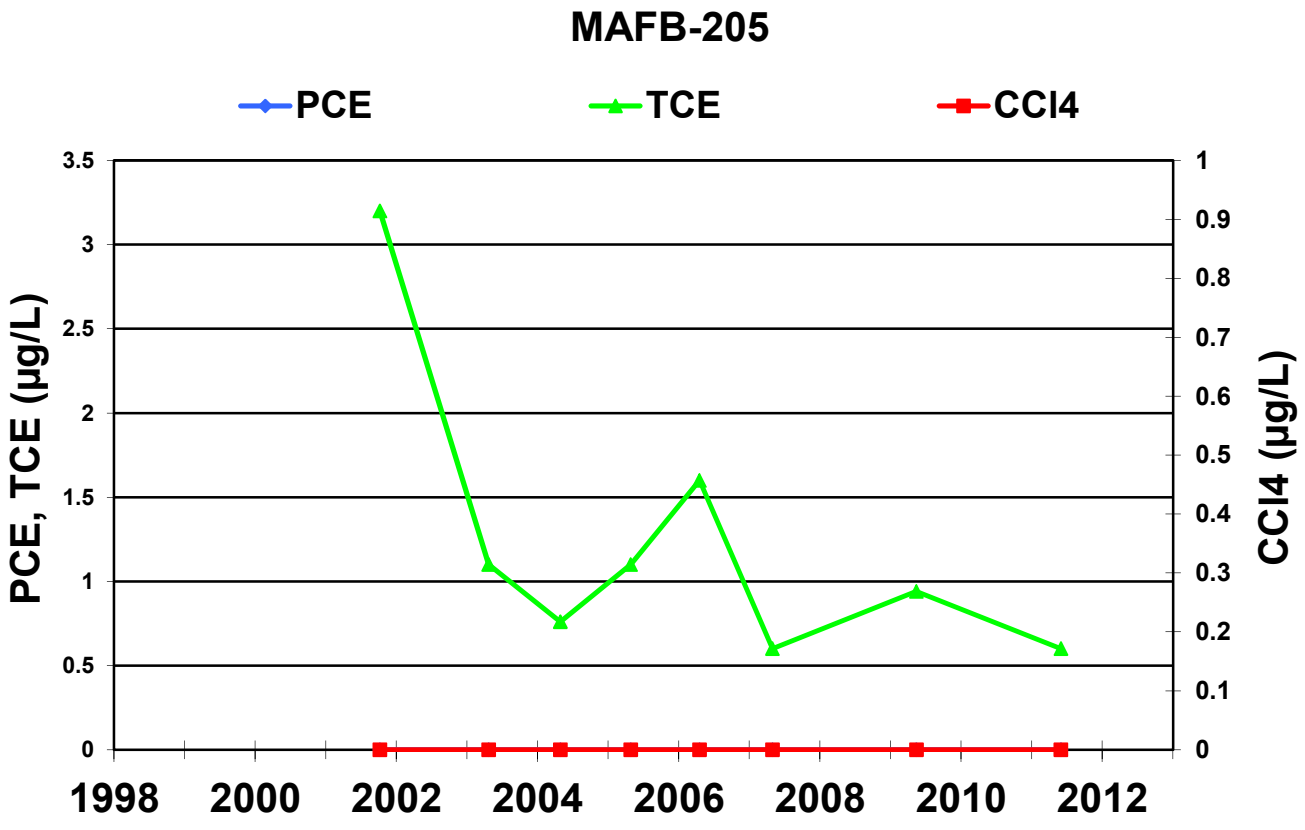

MAFB-200
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
16
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

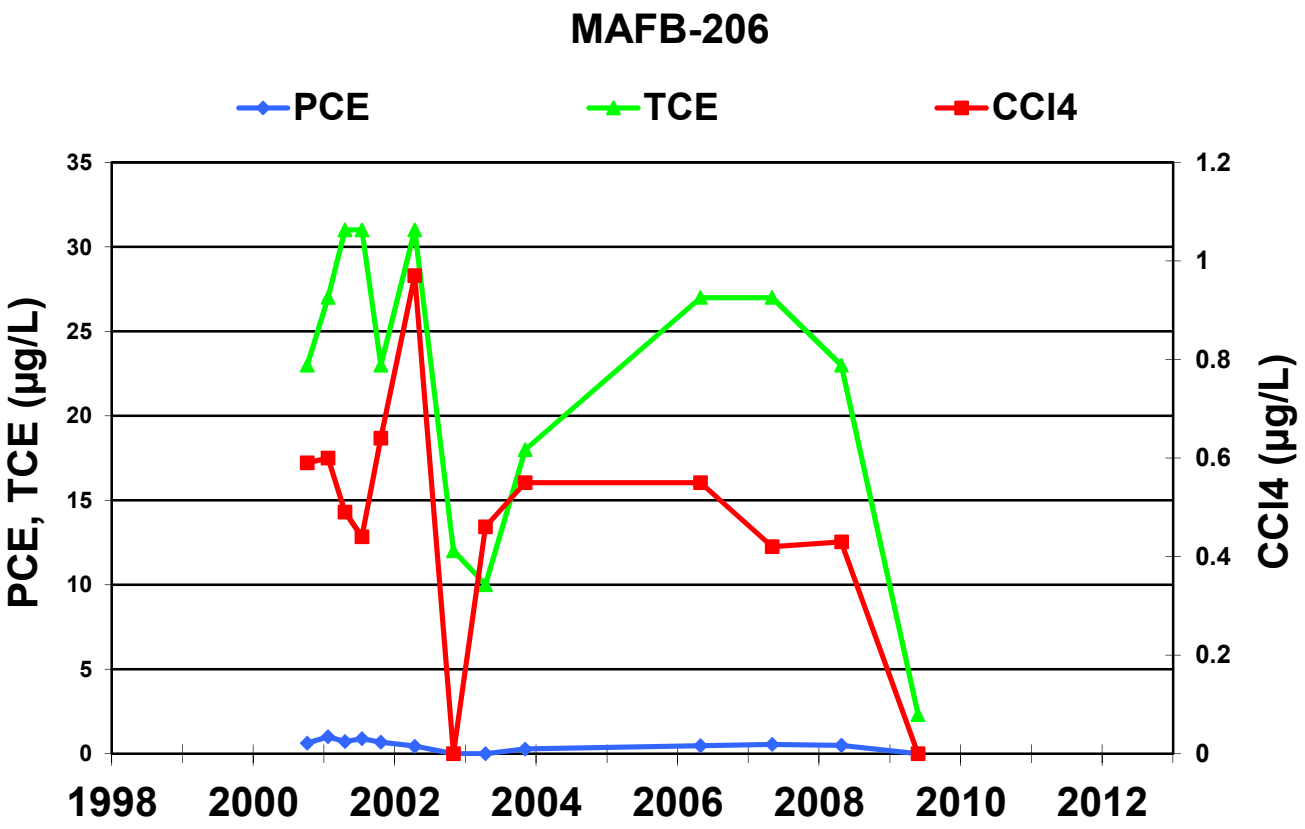

MAFB-201
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

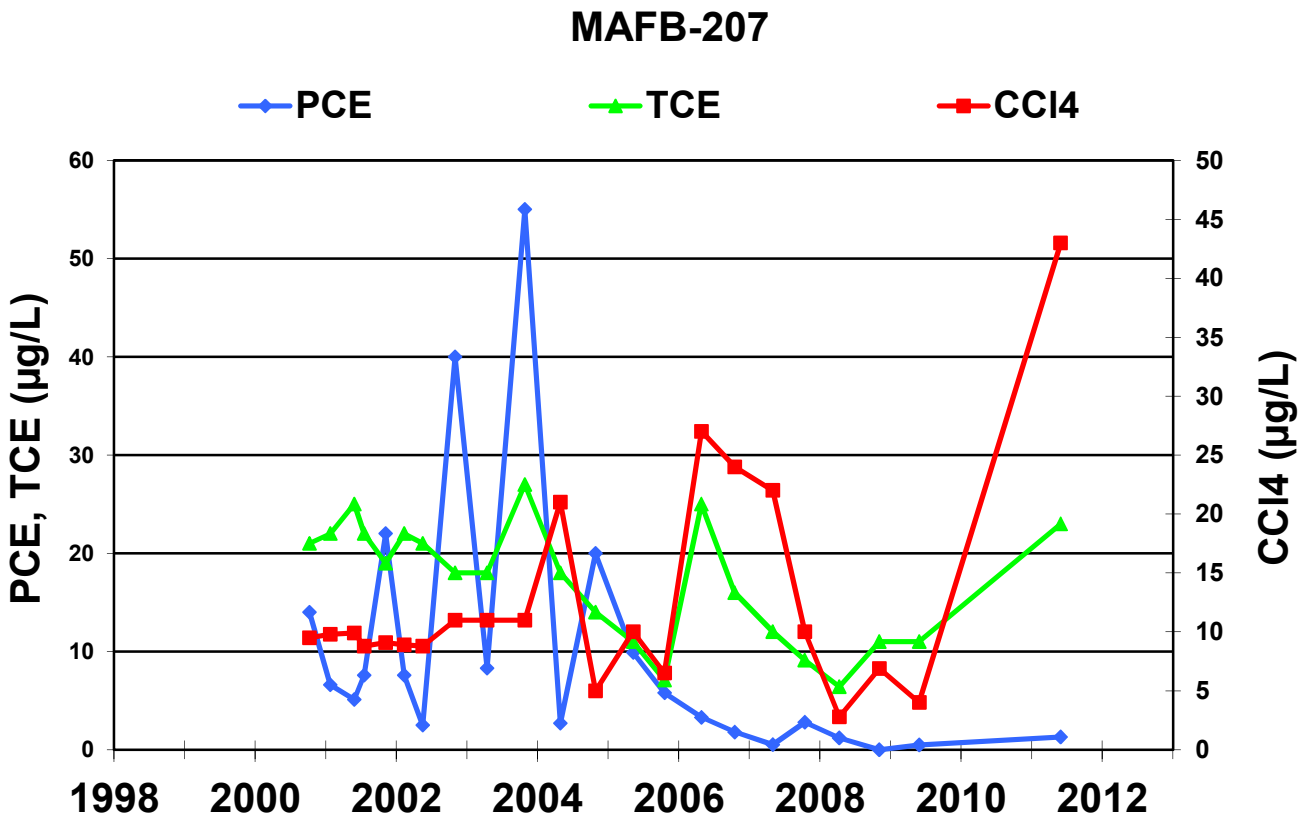

MAFB-202
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
90
80
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

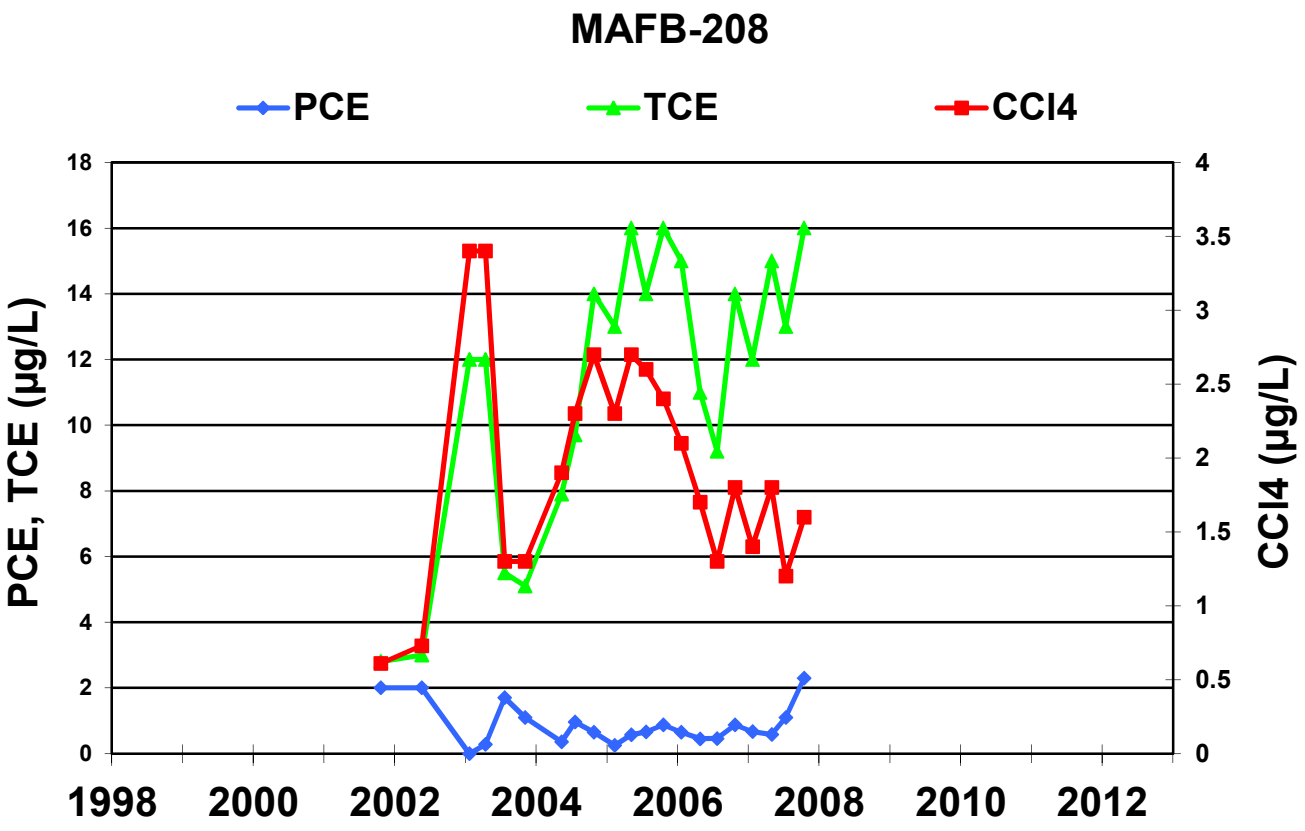

MAFB-203
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
160
140
120
100
80
60
40
20
0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

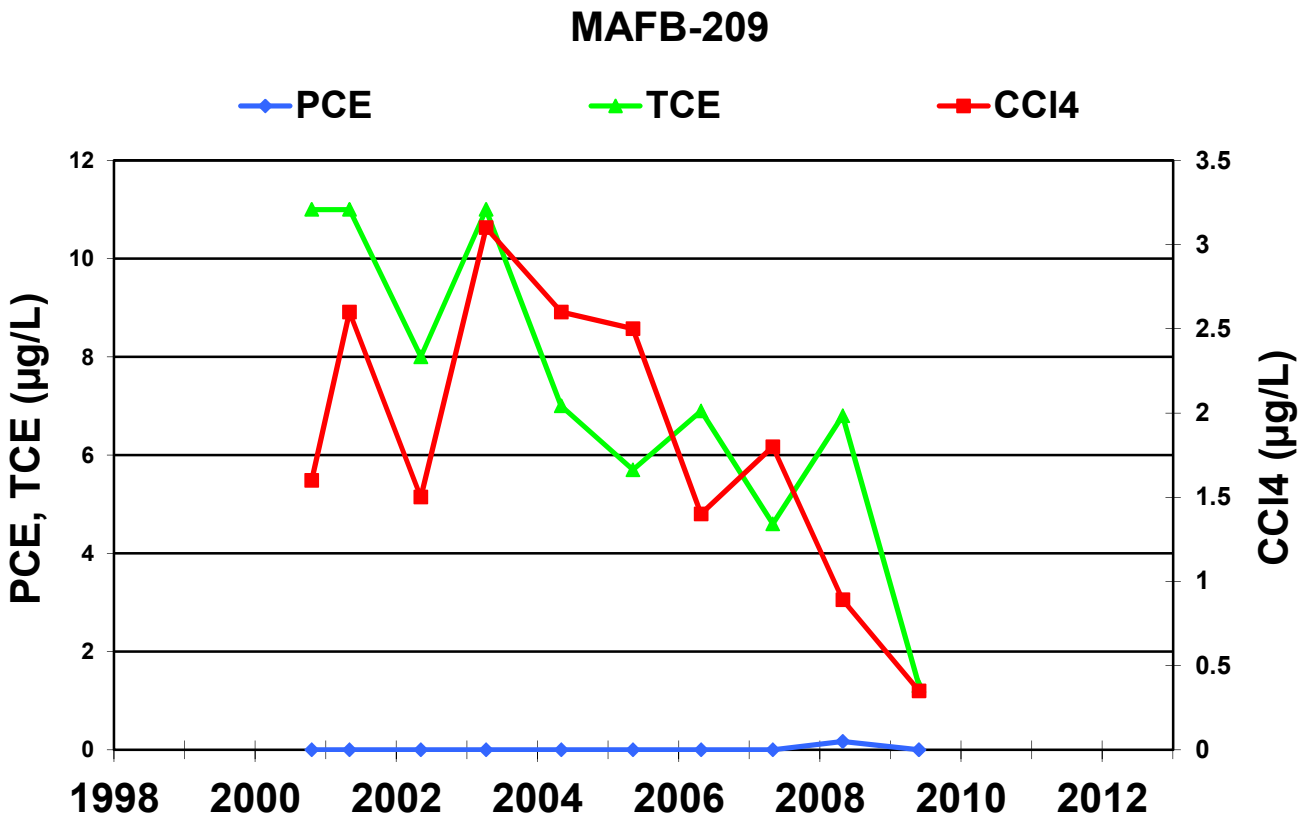

MAFB-204
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

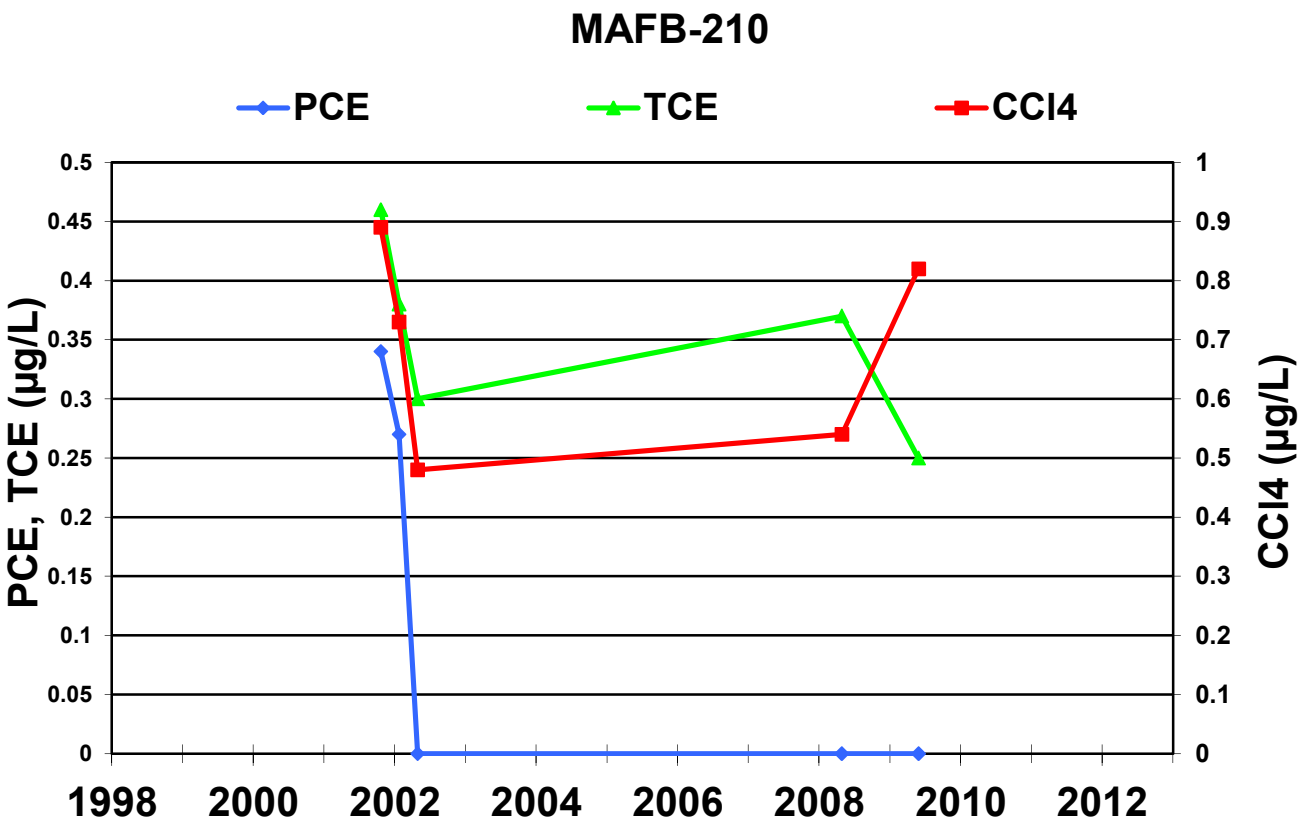

MAFB-205
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

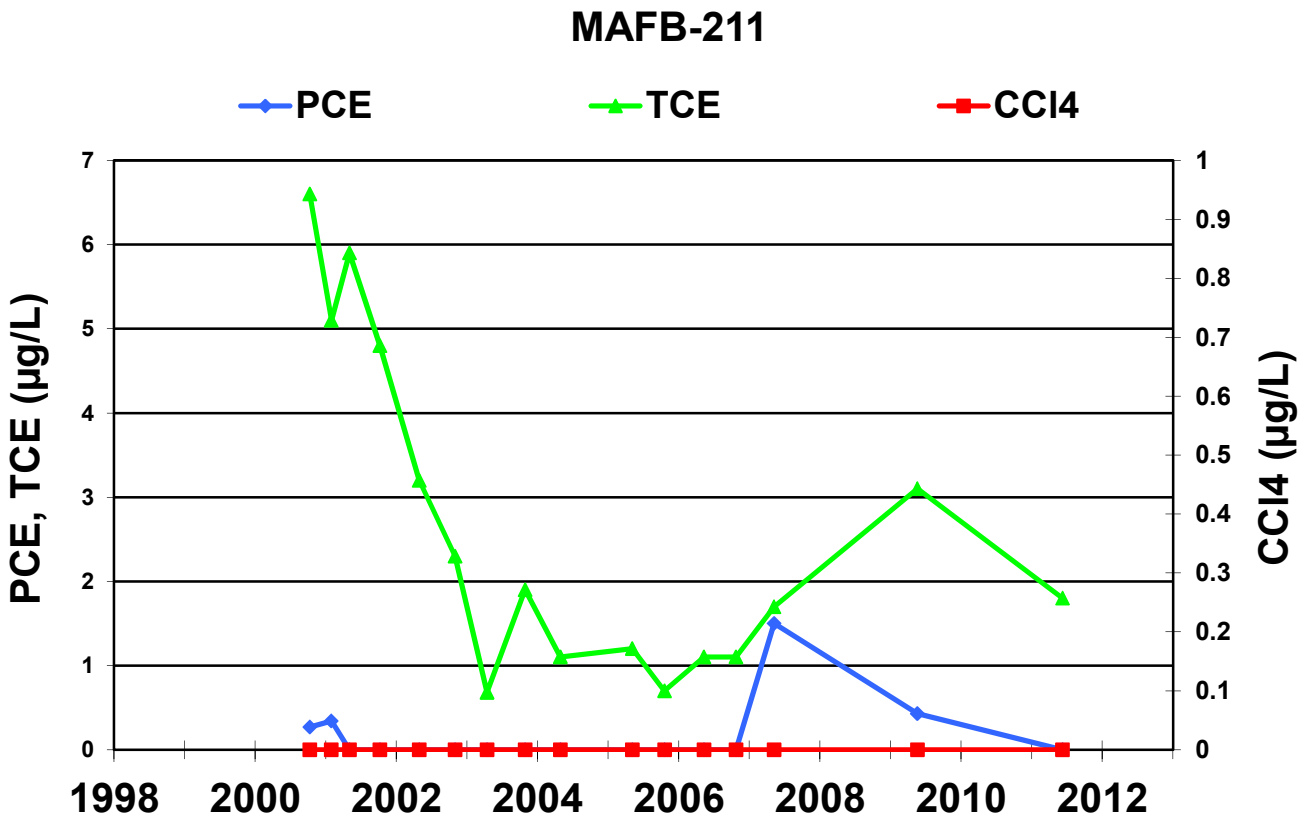

MAFB-206
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
35
30
25
20
15
10
5
0
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

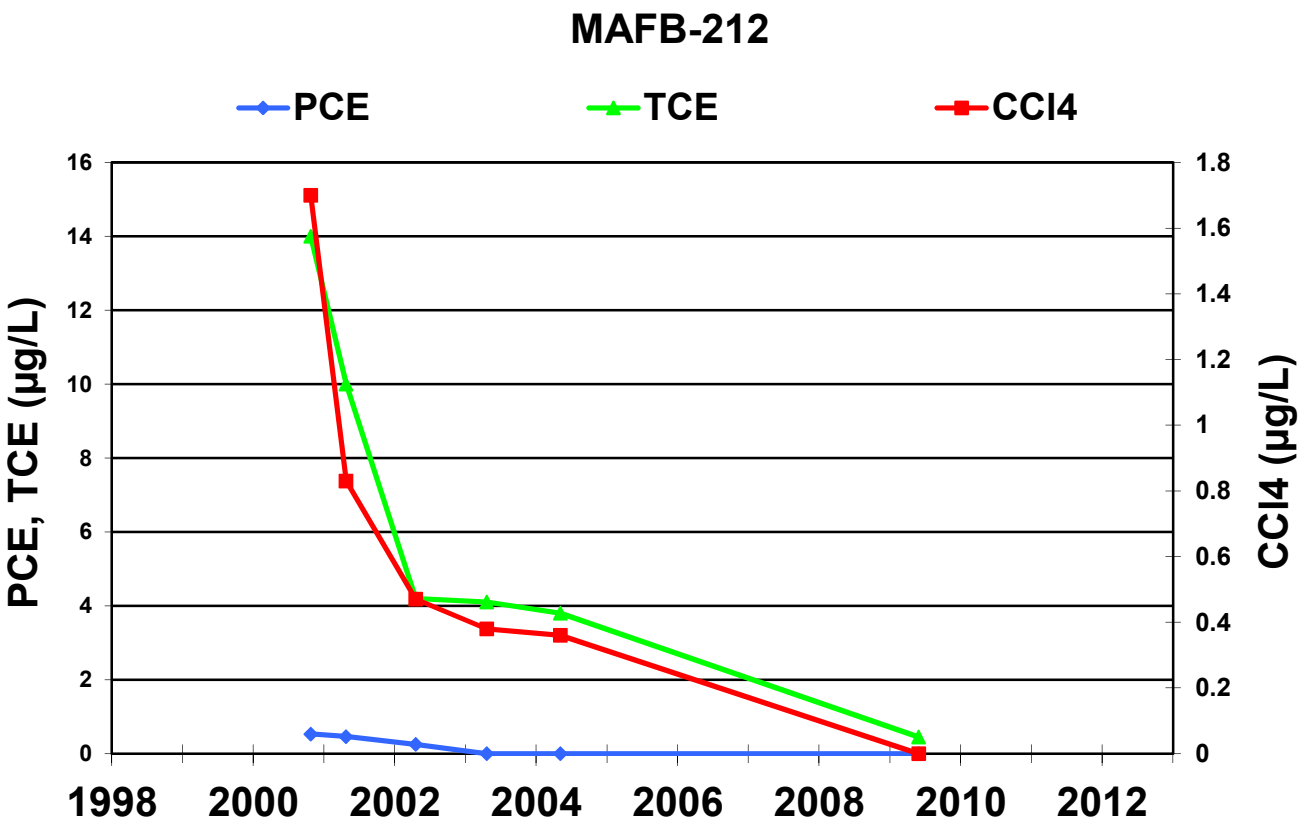

MAFB-207
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
60
50
40
30
20
10
0
50
45
40
35
30
25
20
15
10
5
0
1998
2000
2002
2004
2006
2008
2010
2012

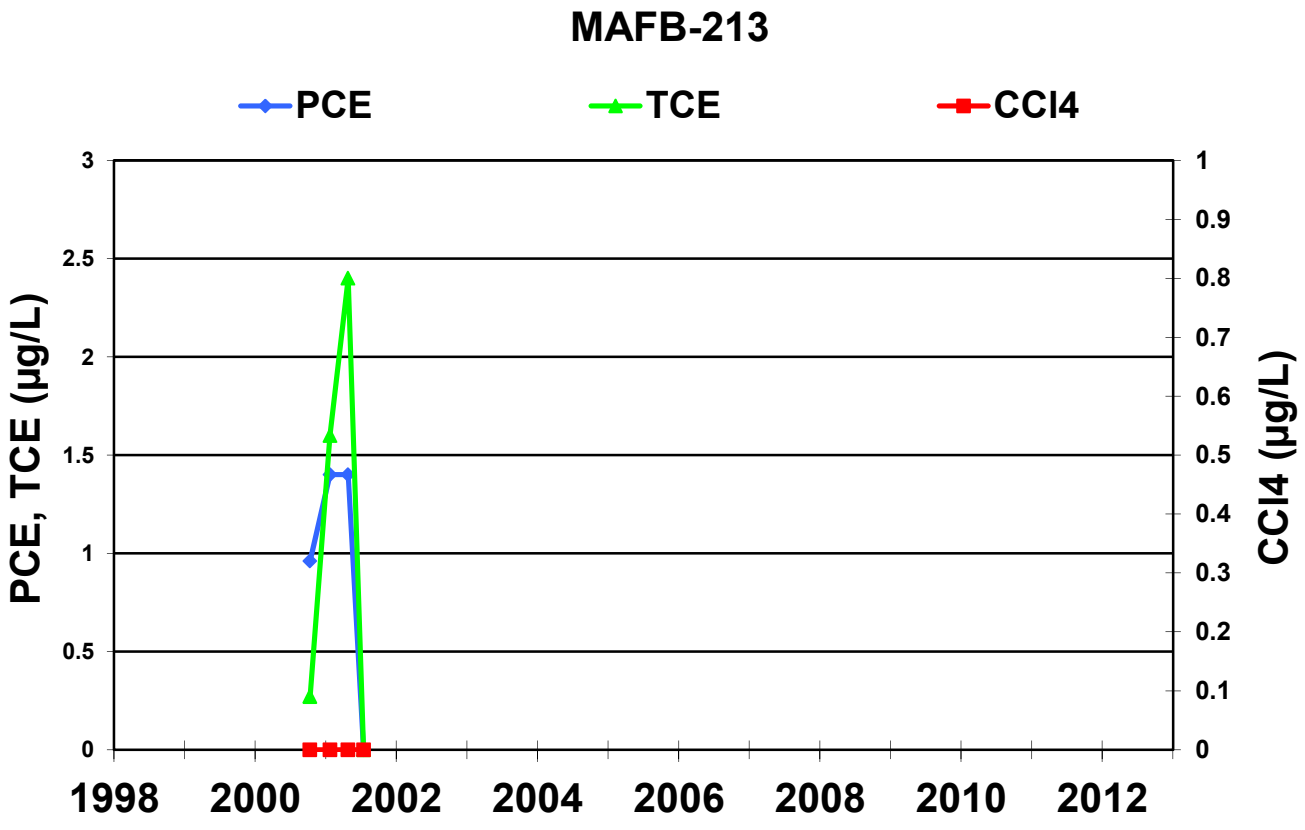

MAFB-208
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
2
4
6
8
10
12
14
16
18
0
0.5
1
1.5
2
2.5
3
3.5
4
1998
2000
2002
2004
2006
2008
2010
2012

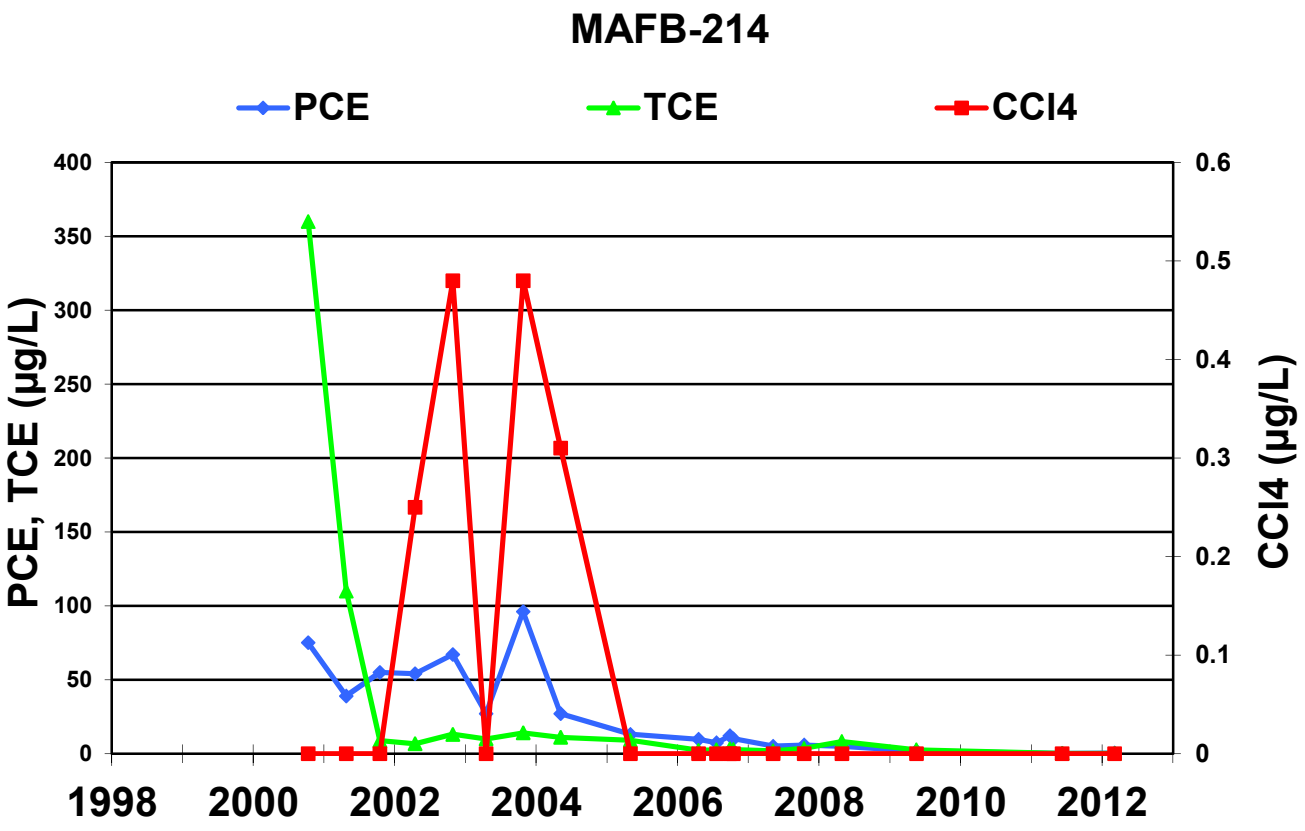

MAFB-209
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
2
4
6
8
10
12
0
0.5
1
1.5
2
2.5
3
3.5
1998
2000
2002
2004
2006
2008
2010
2012

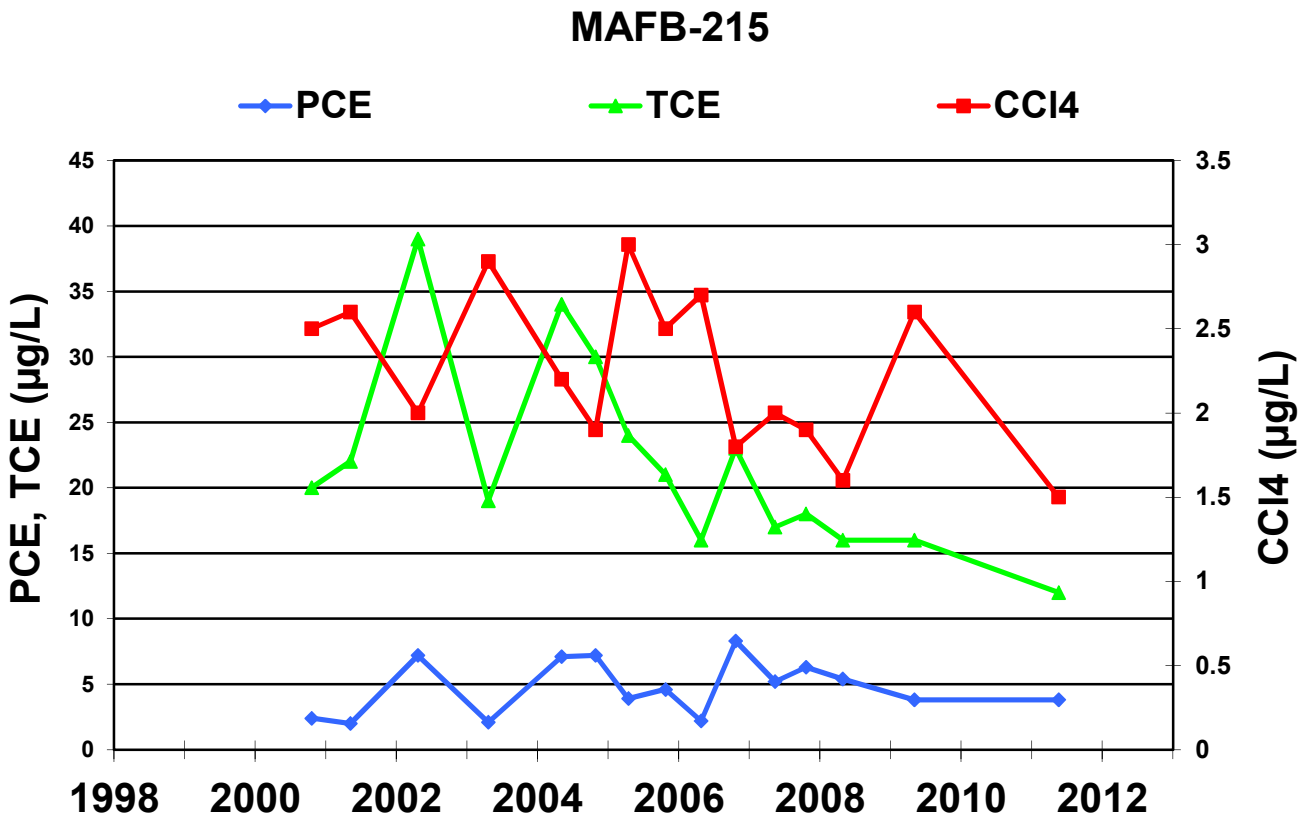

MAFB-210
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

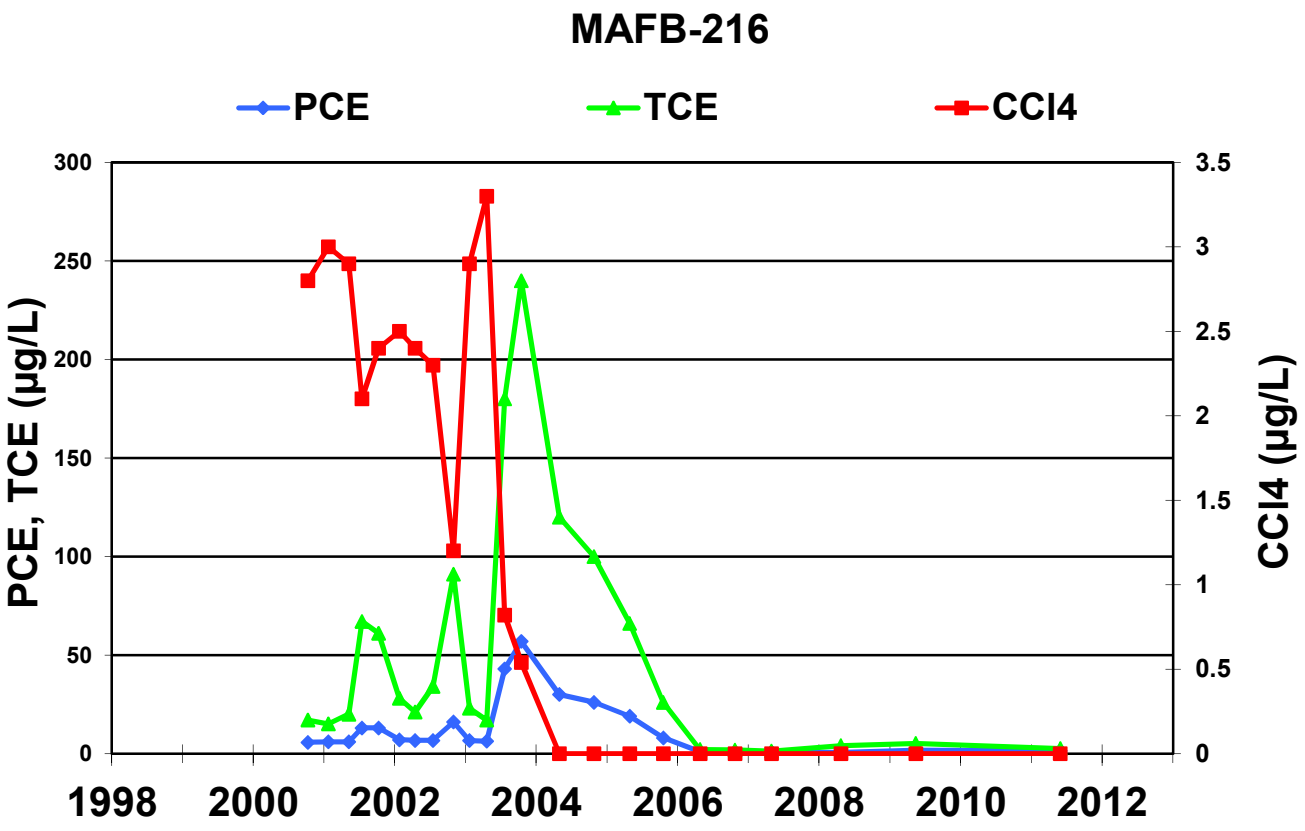

MAFB-211
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
7
6
5
4
3
2
1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

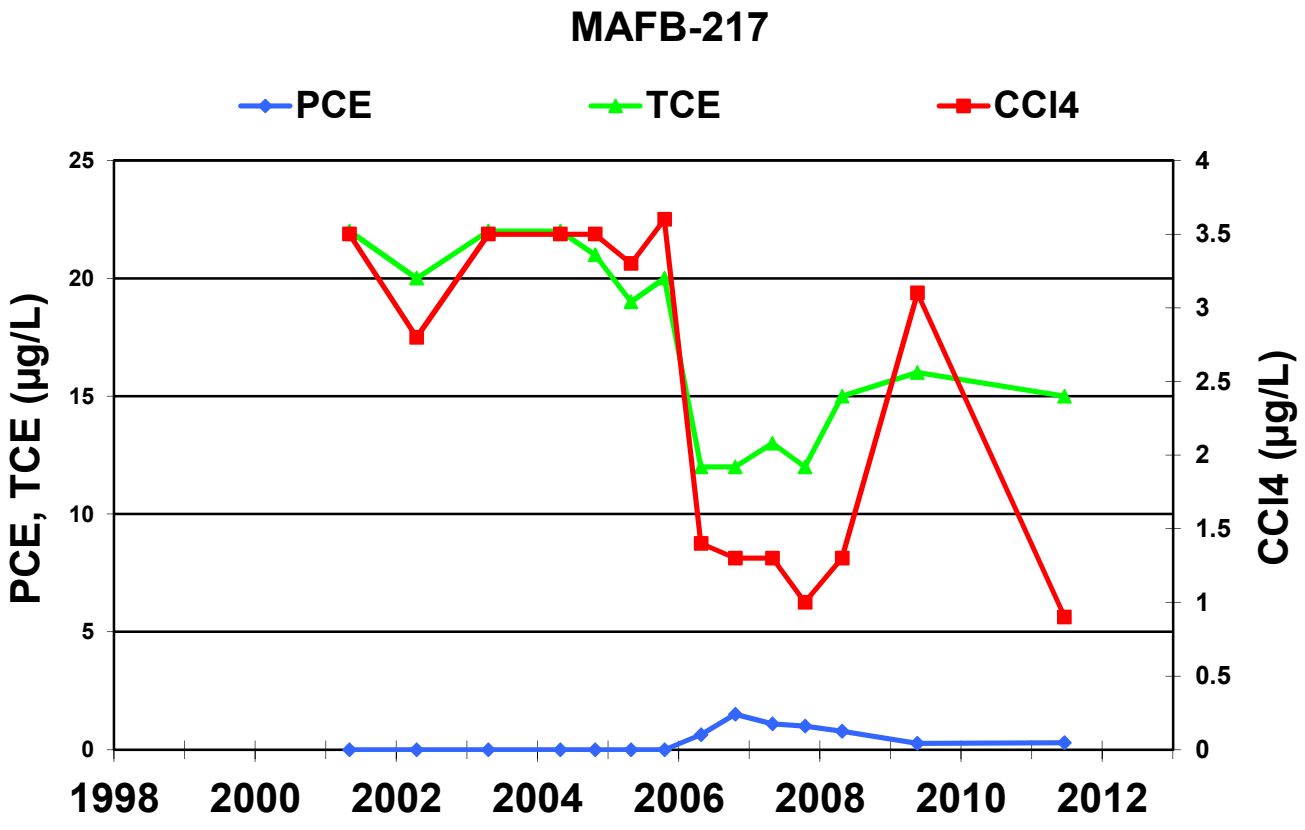

MAFB-212
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
16
14
12
10
8
6
4
2
0
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

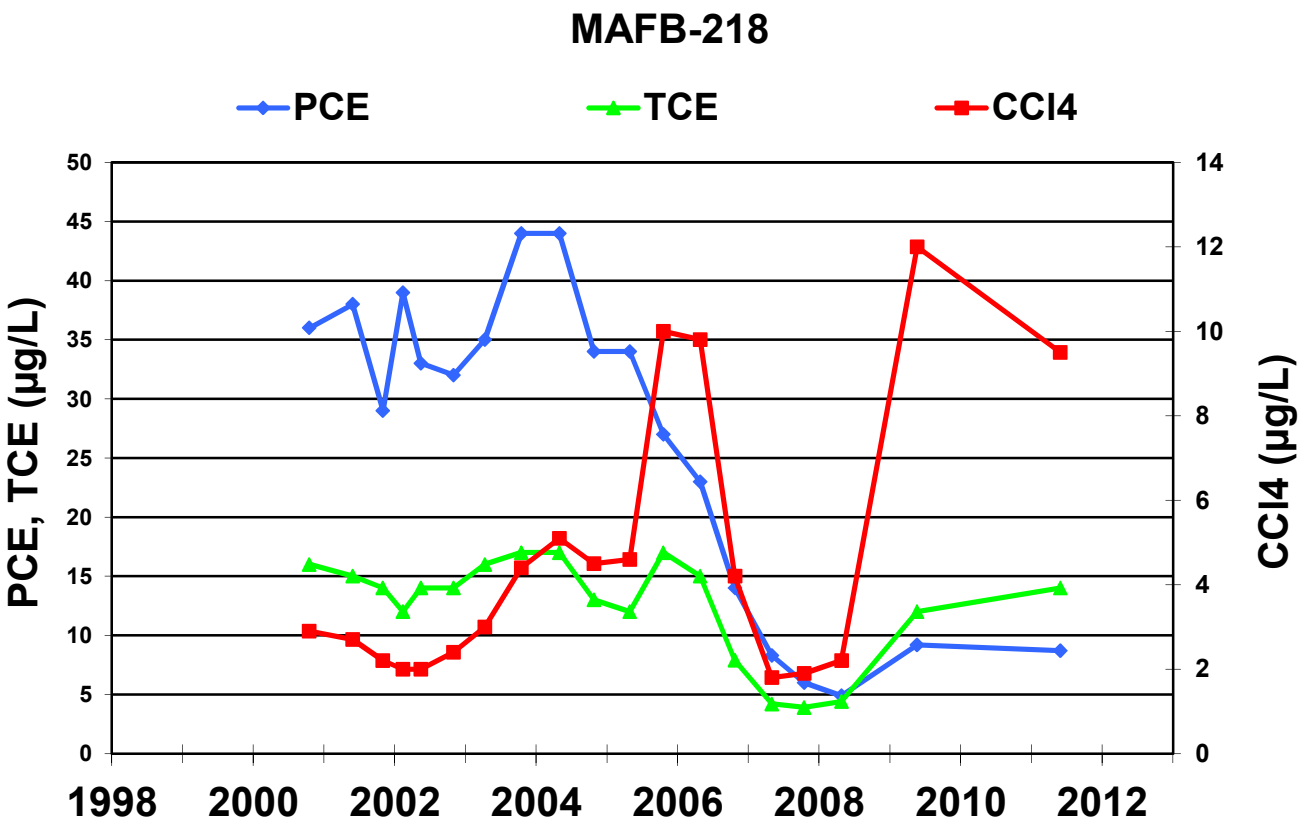

MAFB-213
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

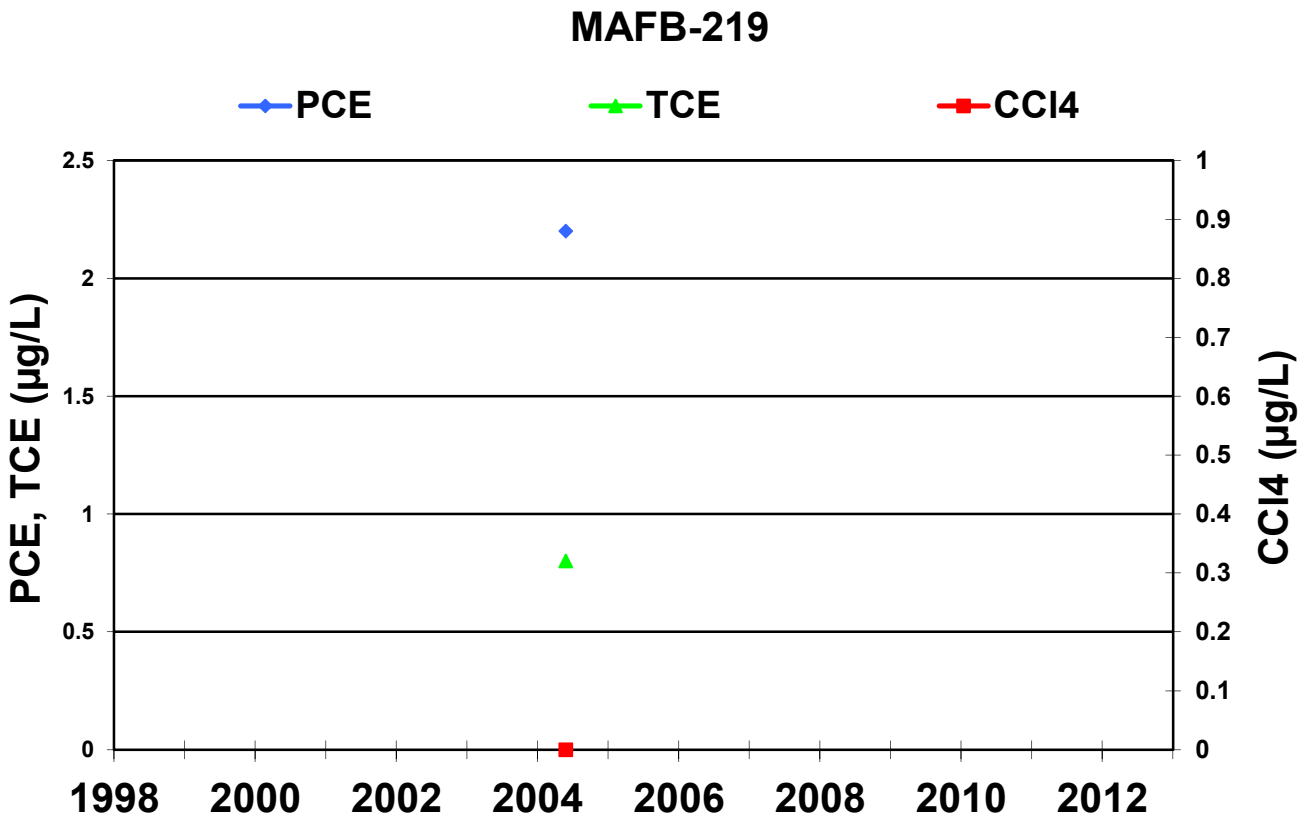

MAFB-214
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
400
350
300
250
200
150
100
50
0
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

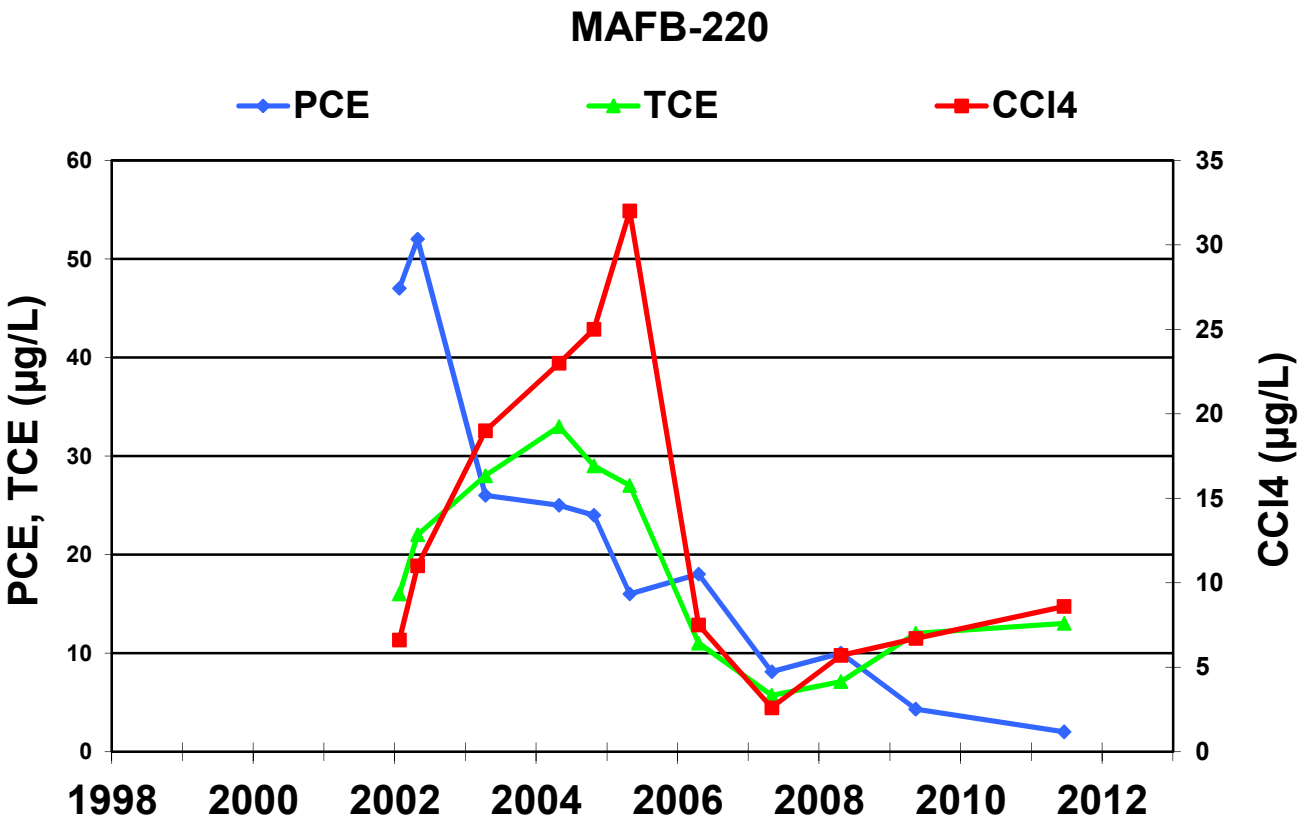

MAFB-215
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
45
40
35
30
25
20
15
10
5
0
3.5
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

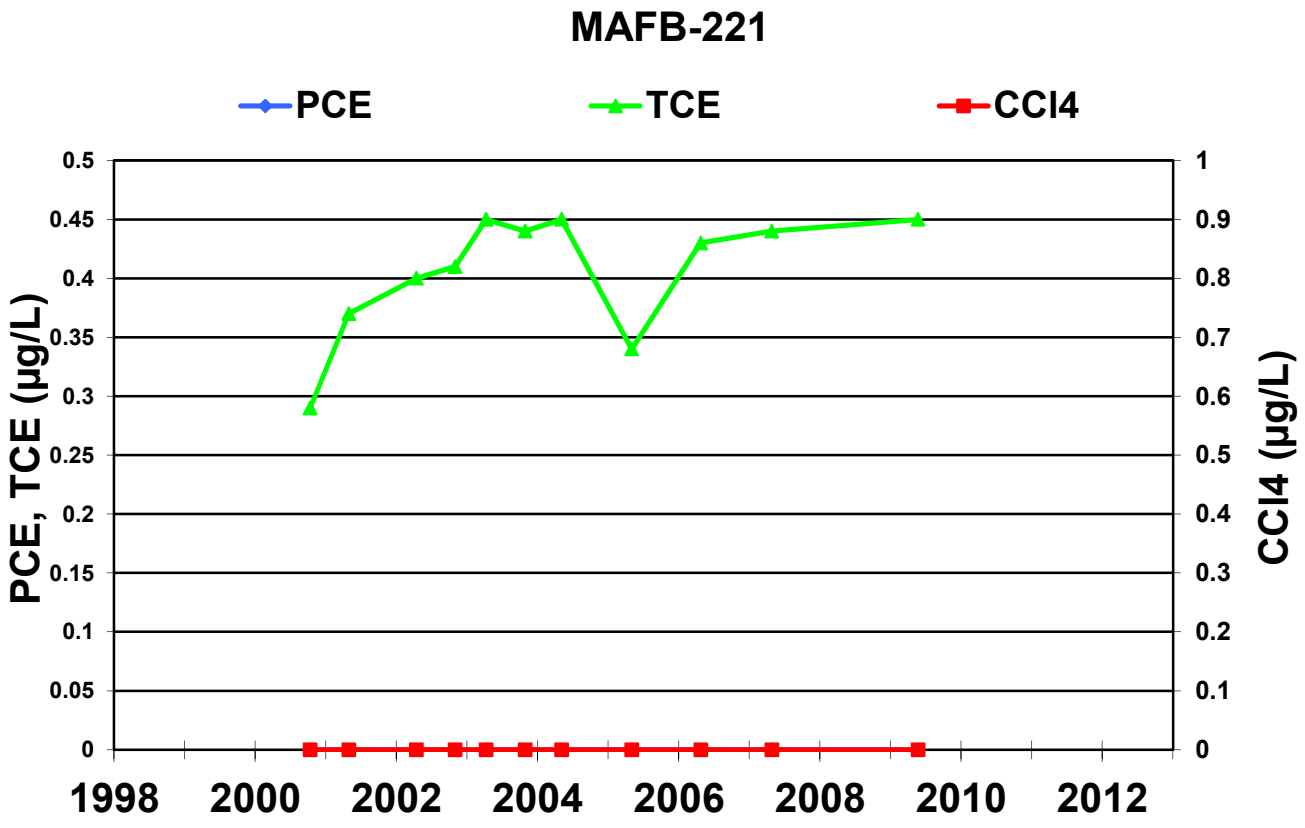

MAFB-216
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
300
250
200
150
100
50
0
3.5
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

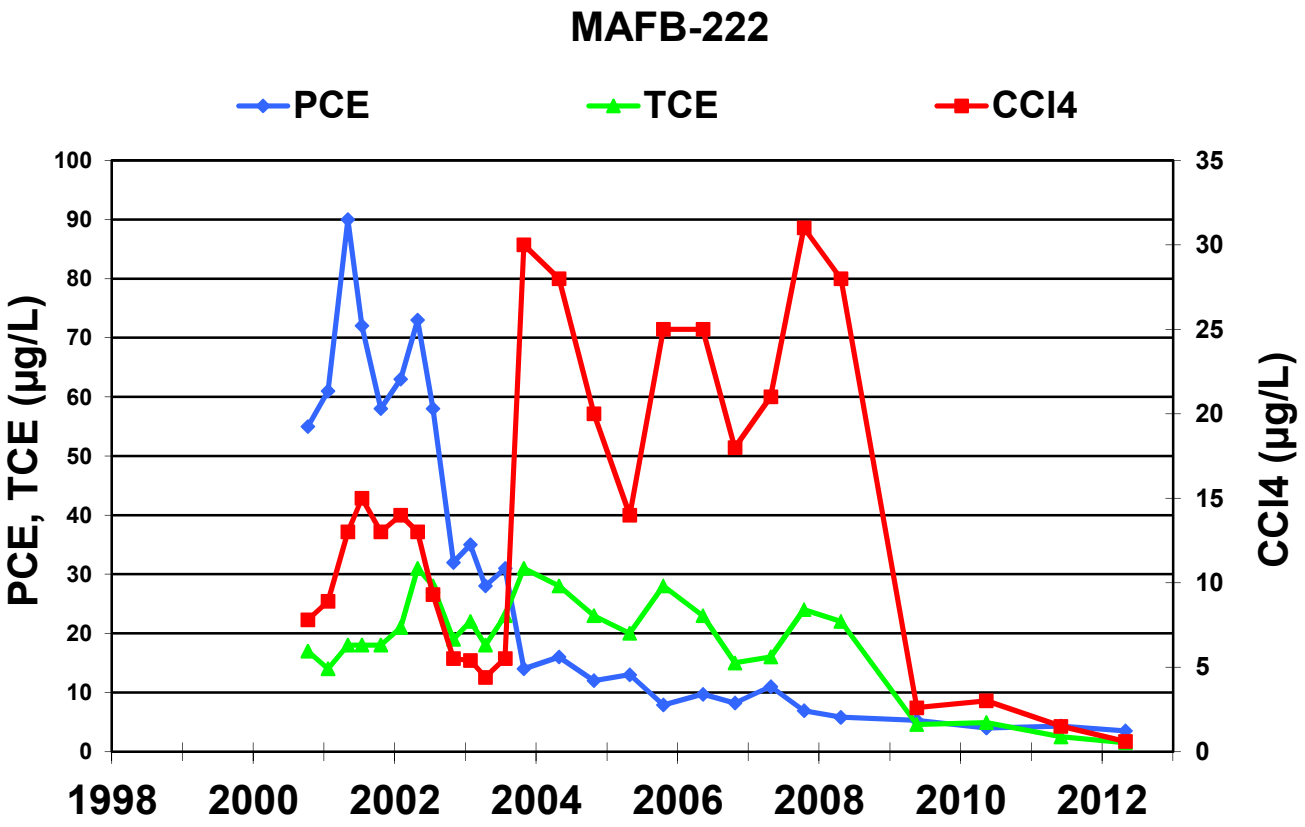

MAFB-217
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
25
20
15
10
5
0
4
3.5
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

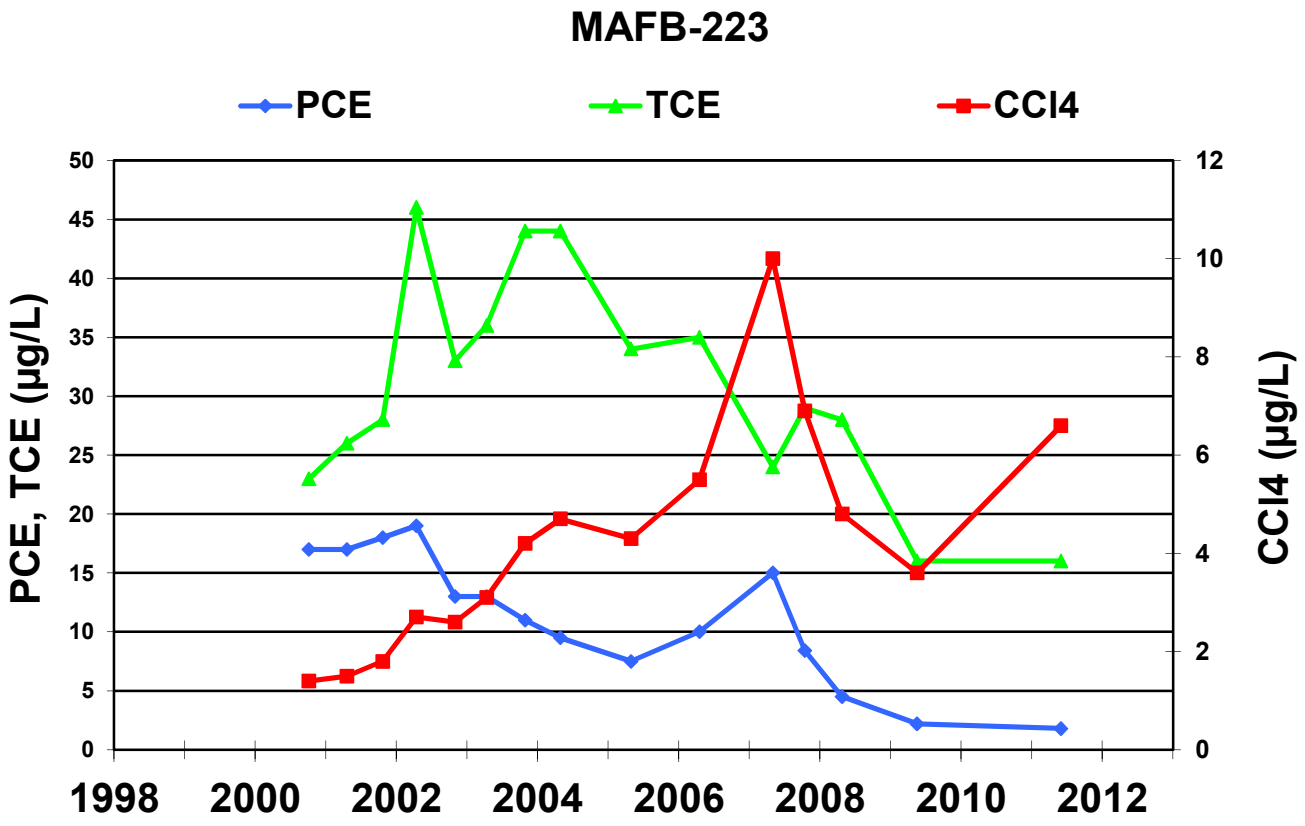

MAFB-218
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
50
45
40
35
30
25
20
15
10
5
0
14
12
10
8
6
4
2
0
1998
2000
2002
2004
2006
2008
2010
2012

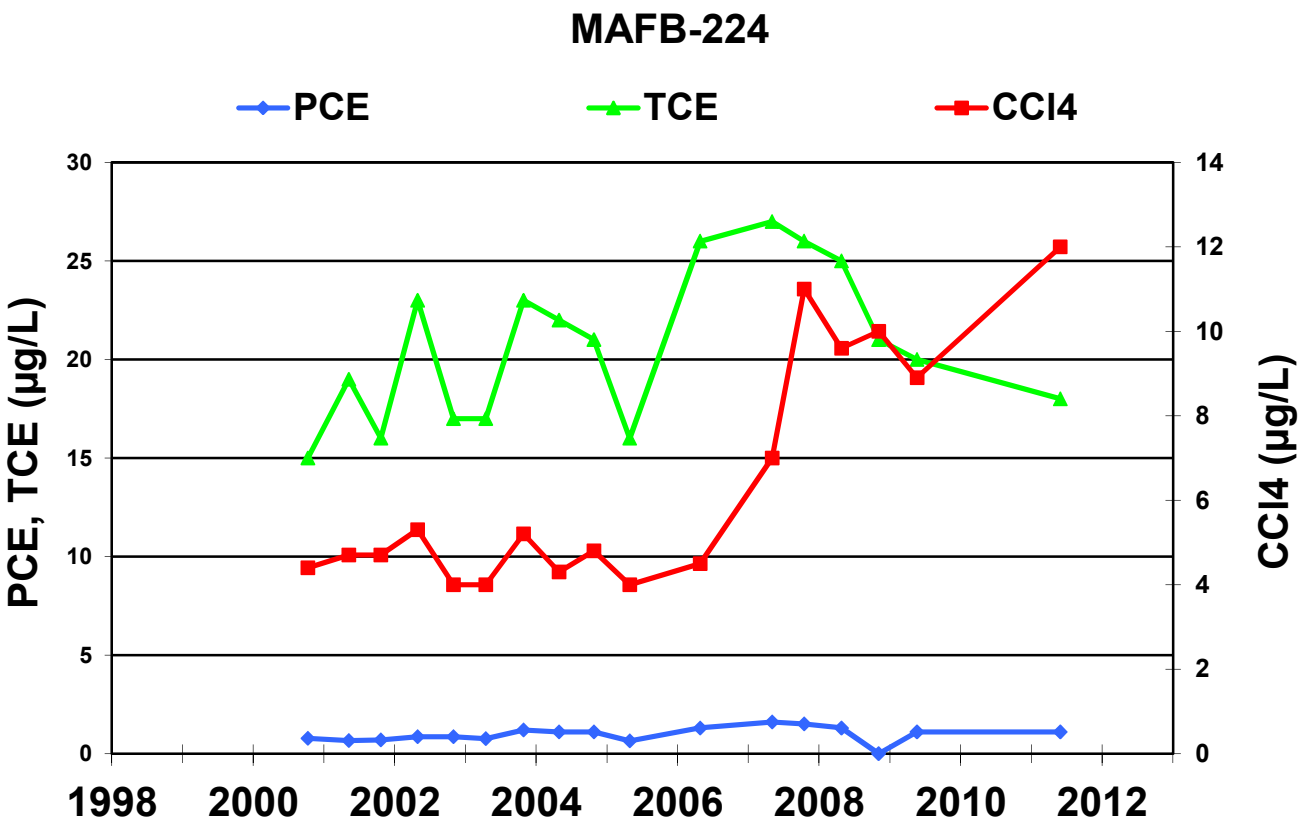

MAFB-219
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

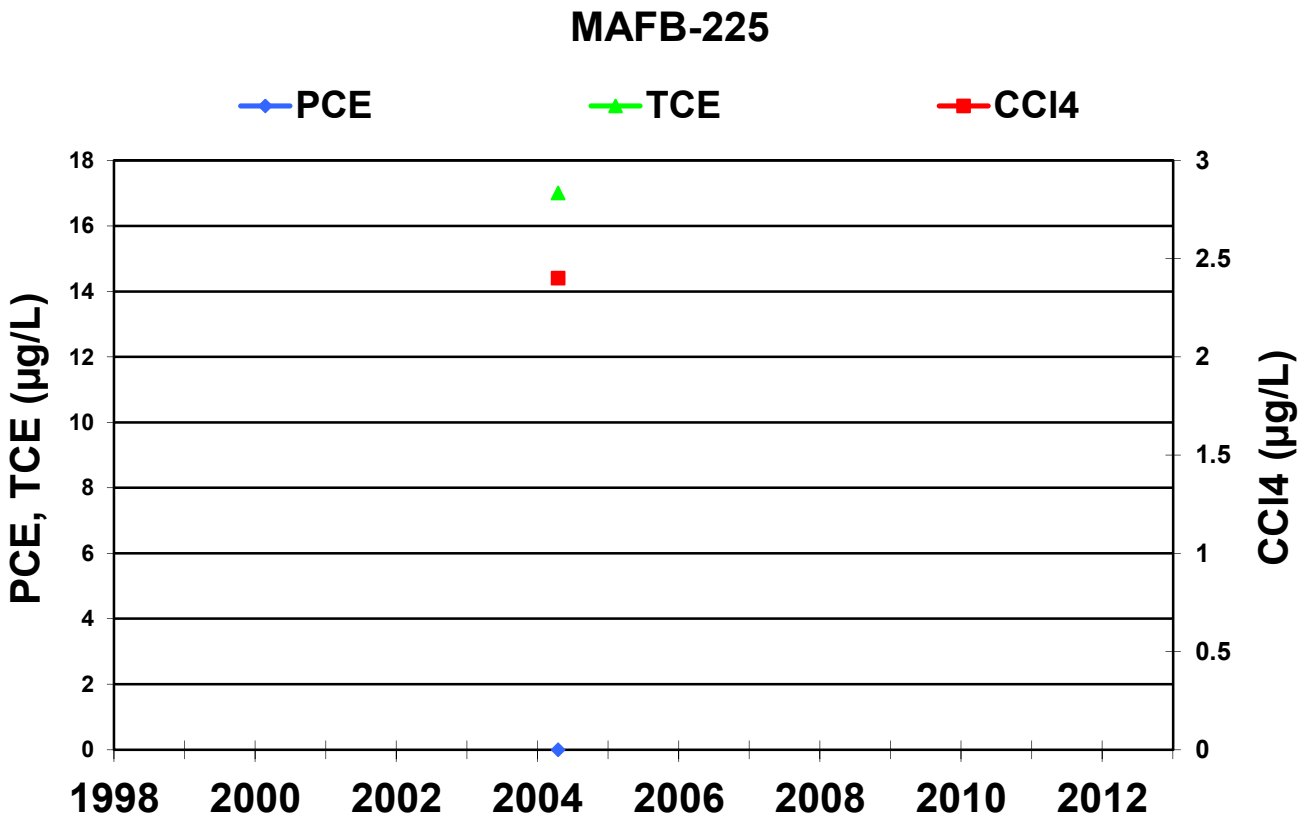

MAFB-220
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
60
50
40
30
20
10
0
35
30
25
20
15
10
5
0
1998
2000
2002
2004
2006
2008
2010
2012

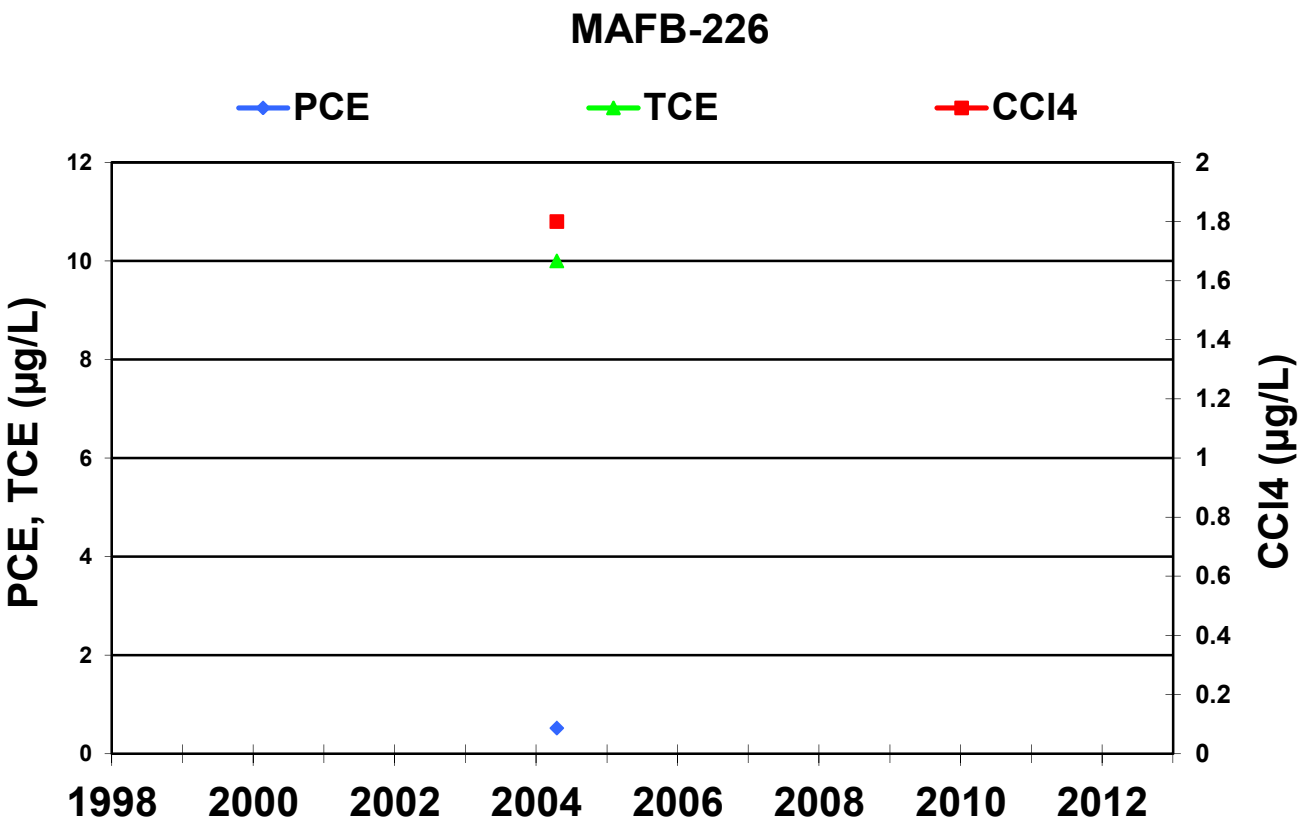

MAFB-221
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

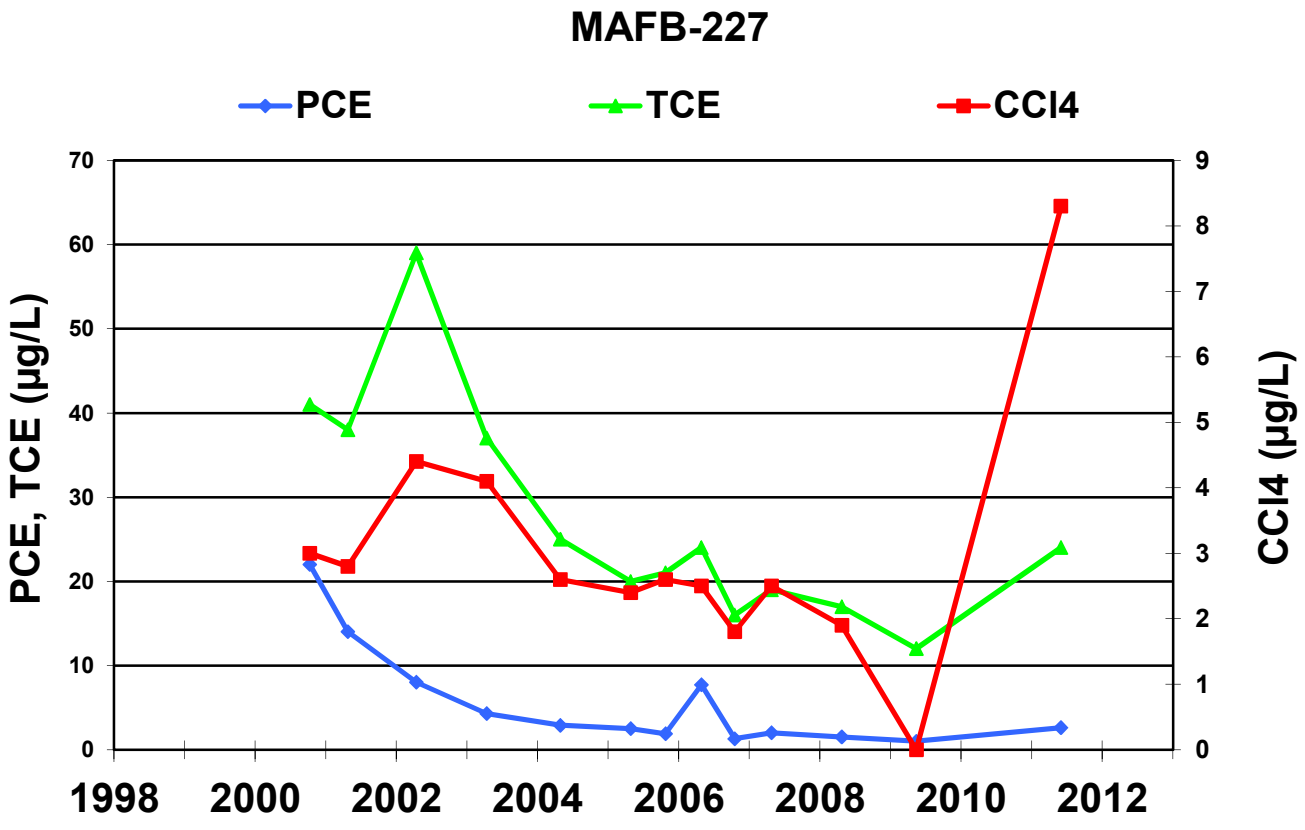

MAFB-222
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
100
90
80
70
60
50
40
30
20
10
0
35
30
25
20
15
10
5
0
1998
2000
2002
2004
2006
2008
2010
2012

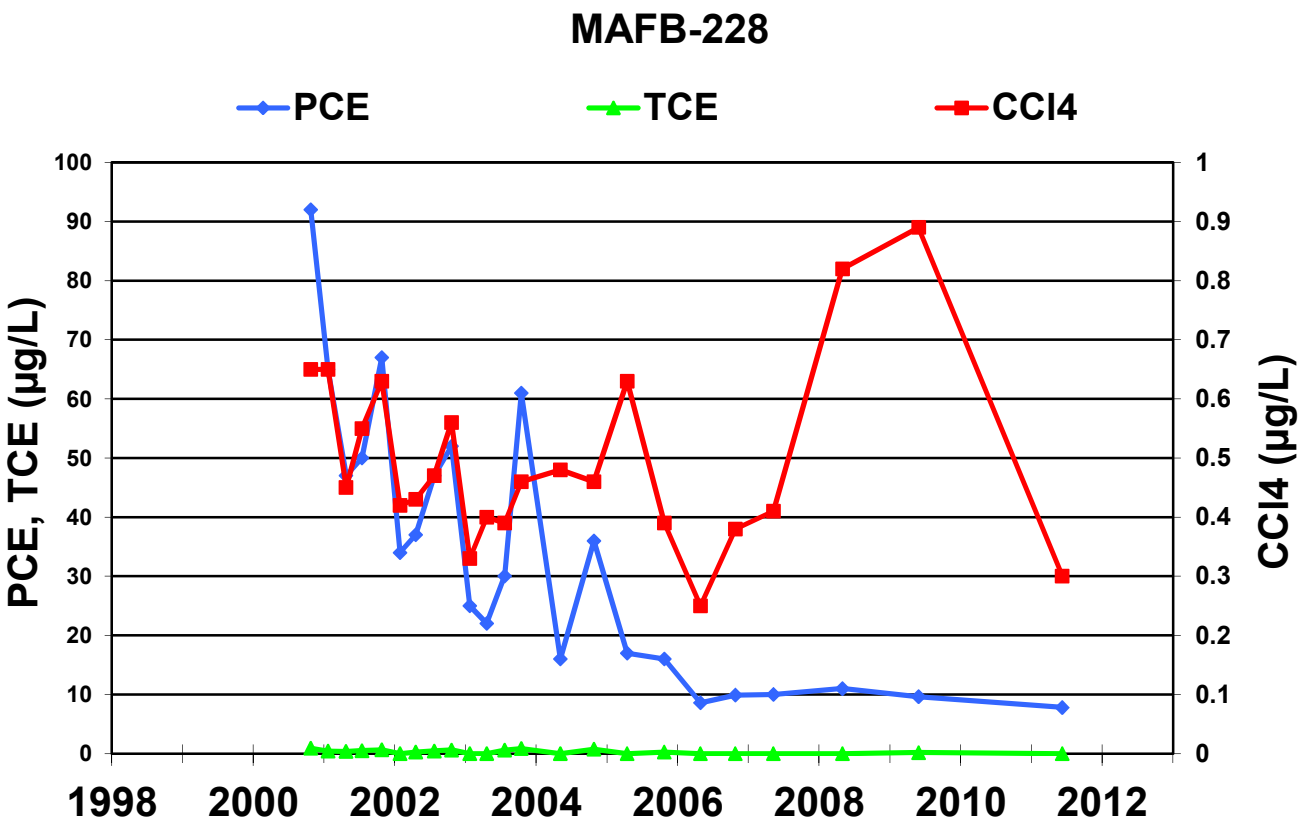

MAFB-223
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
50
45
40
35
30
25
20
15
10
5
0
12
10
8
6
4
2
0
1998
2000
2002
2004
2006
2008
2010
2012

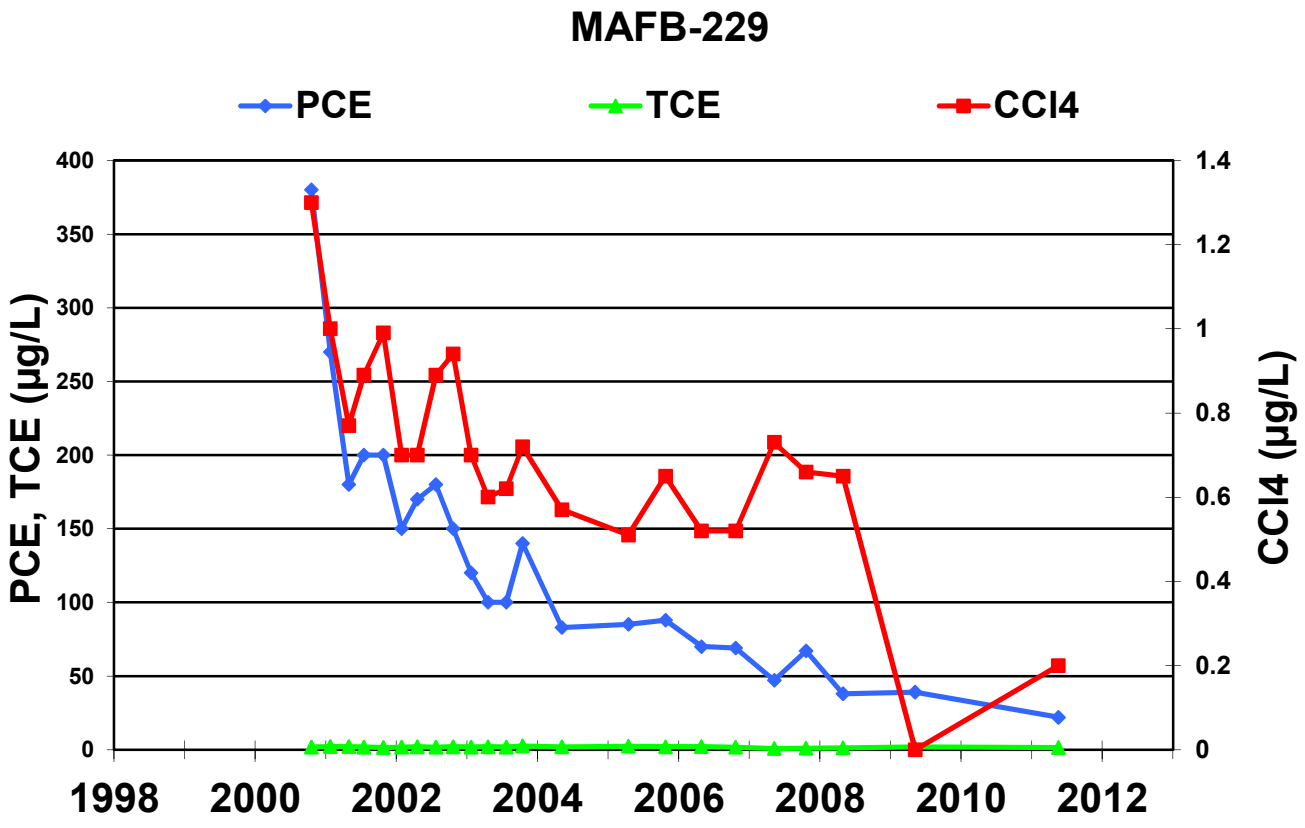

MAFB-224
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
30
25
20
15
10
5
0
14
12
10
8
6
4
2
0
1998
2000
2002
2004
2006
2008
2010
2012

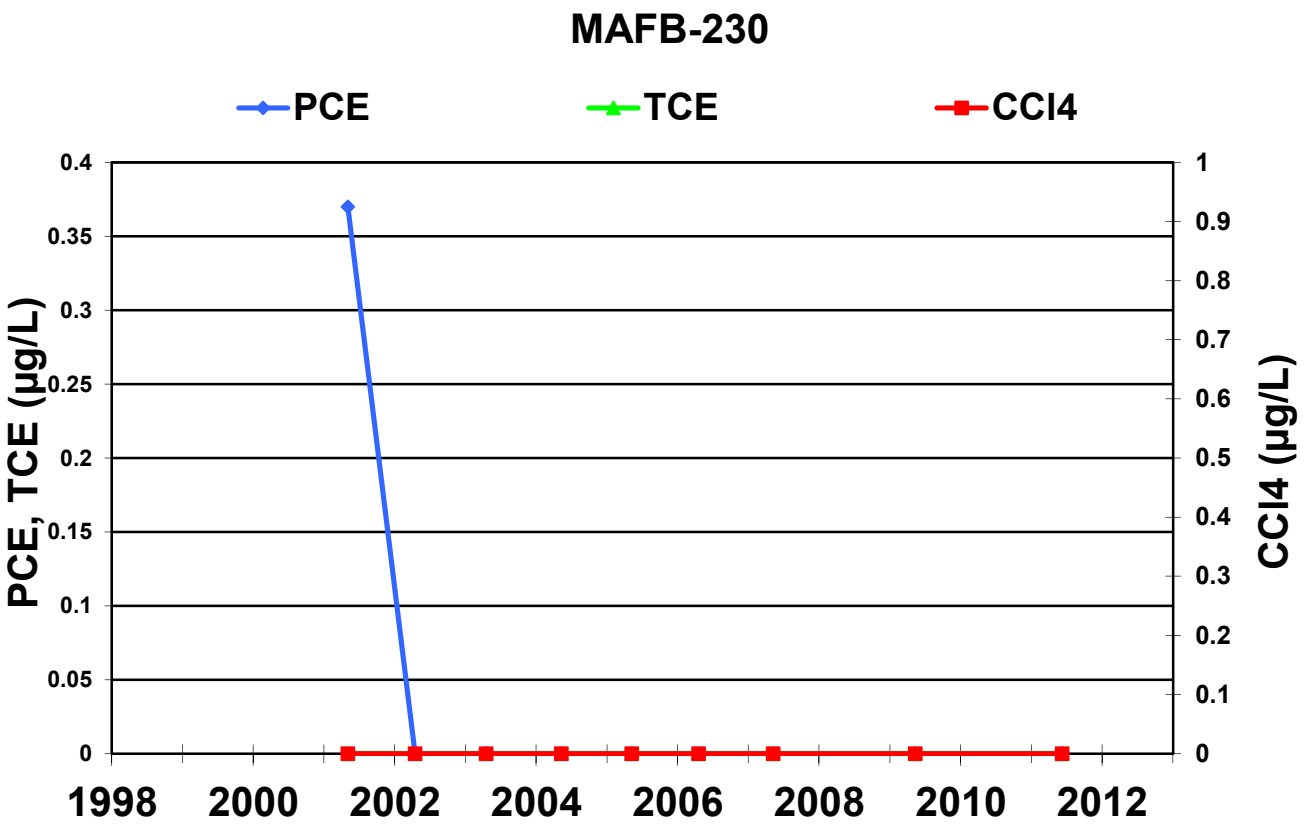

MAFB-225
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
18
16
14
12
10
8
6
4
2
0
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

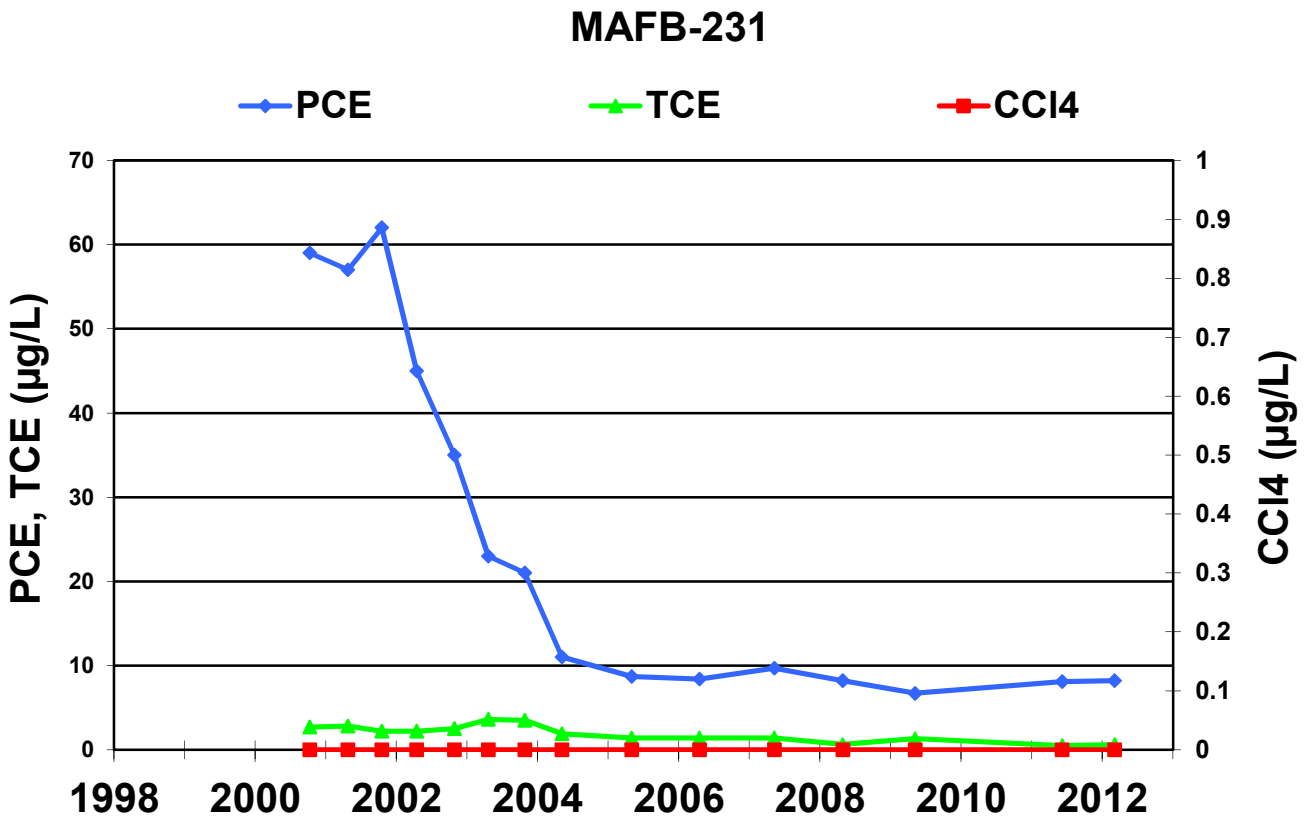

MAFB-226
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
2
4
6
8
10
12
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
1998
2000
2002
2004
2006
2008
2010
2012

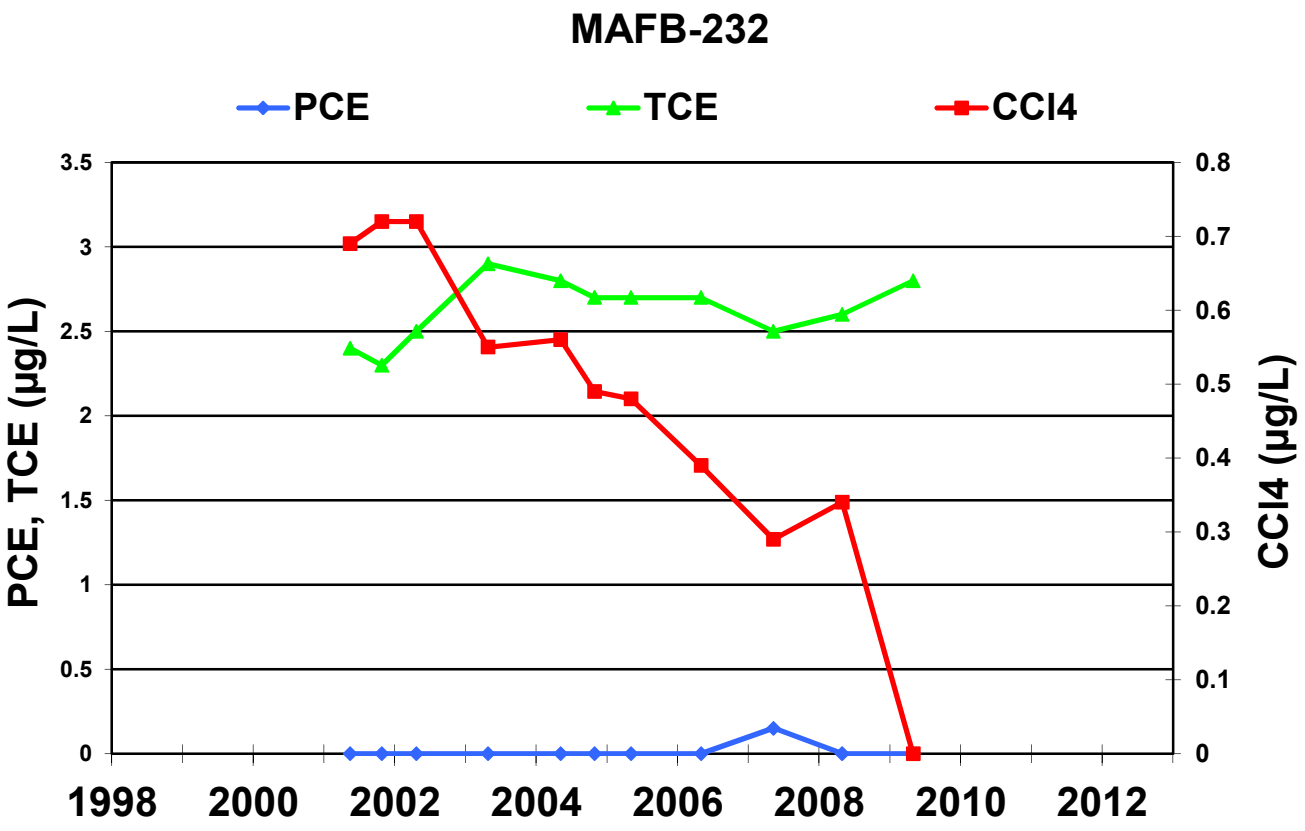

MAFB-227
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
10
20
30
40
50
60
70
0
1
2
3
4
5
6
7
8
9
1998
2000
2002
2004
2006
2008
2010
2012

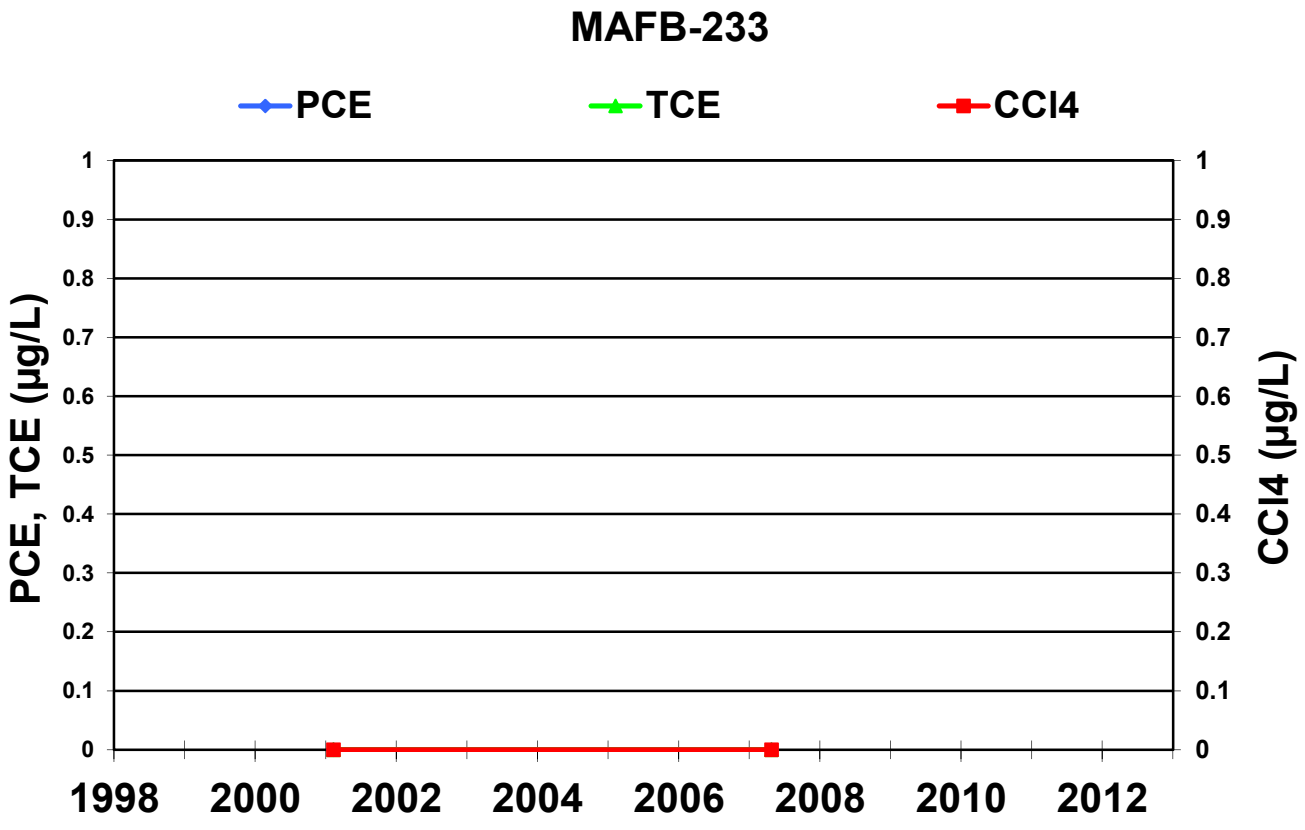

MAFB-228
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
100
90
80
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

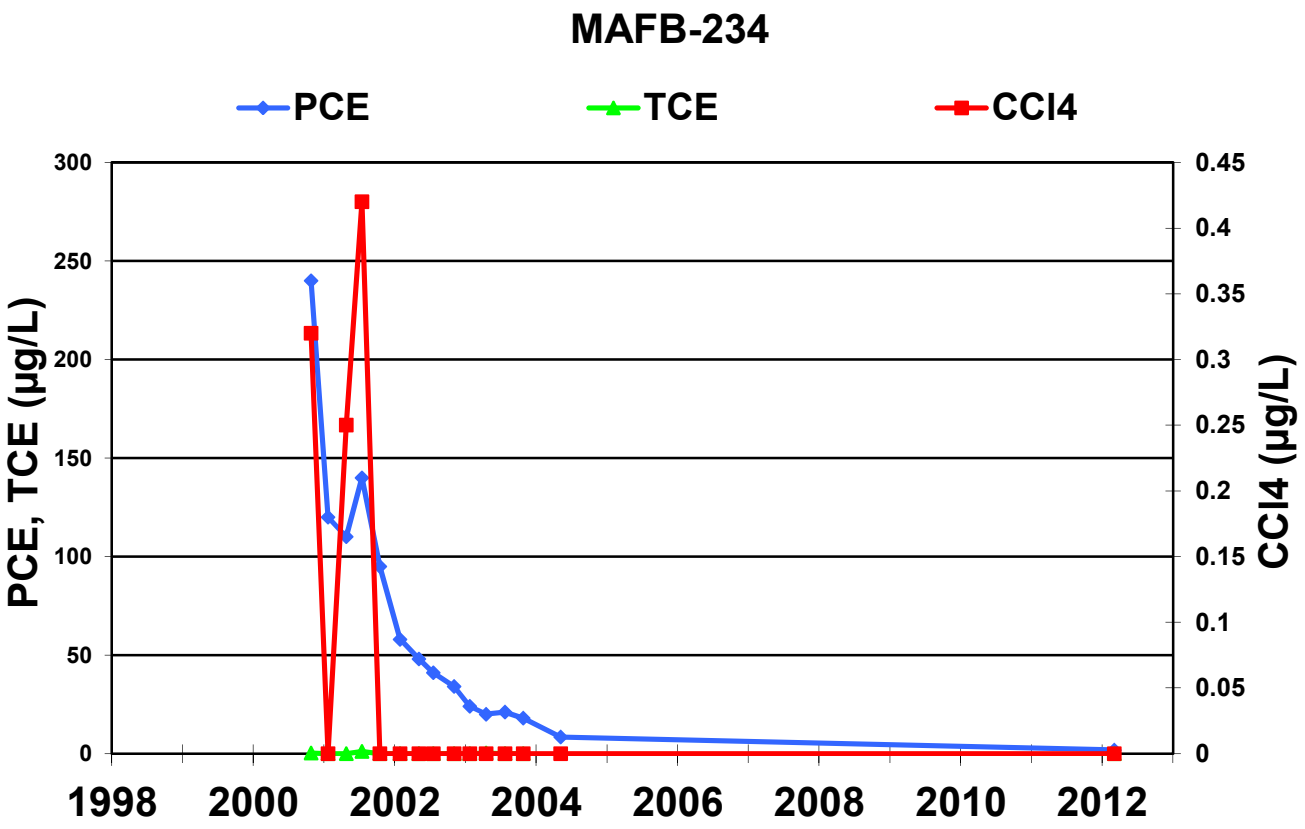

MAFB-229
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
400
350
300
250
200
150
100
50
0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

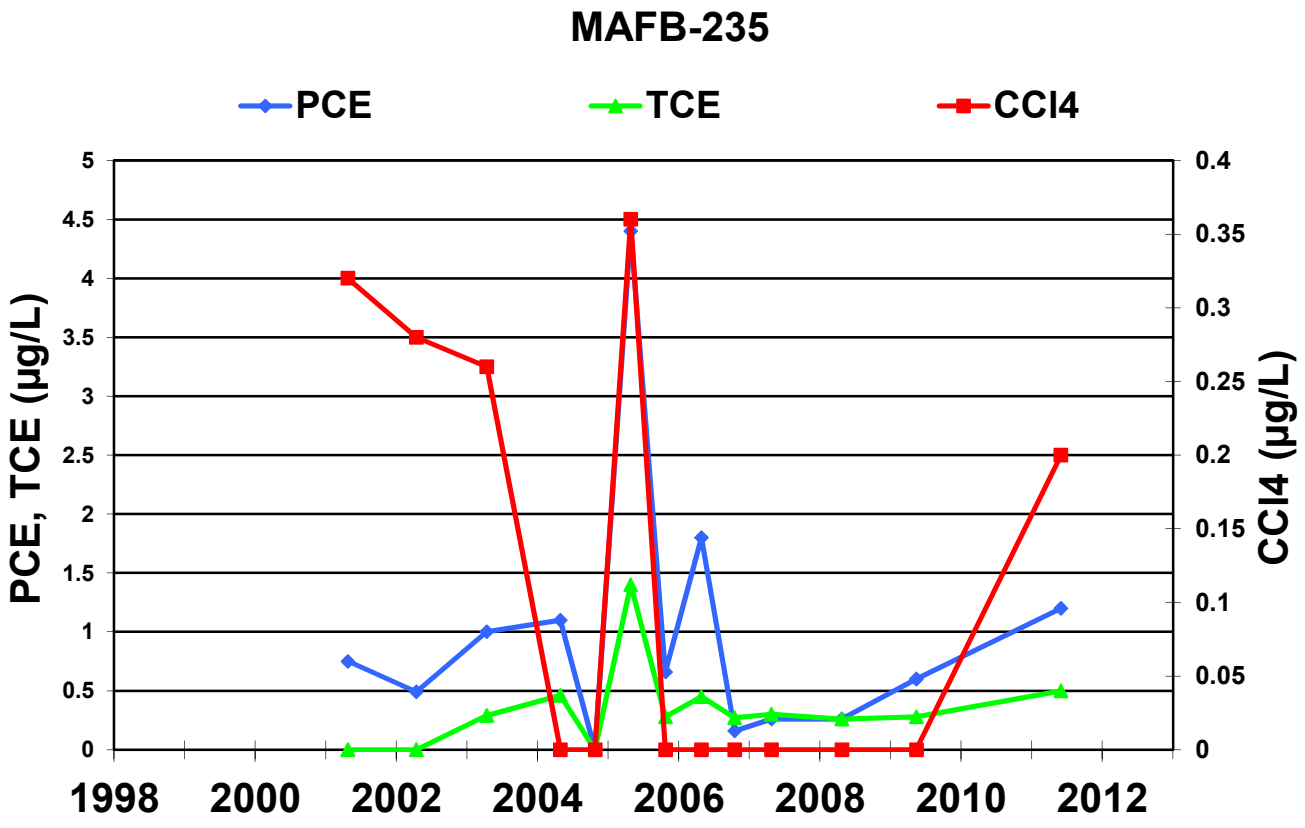

MAFB-230
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

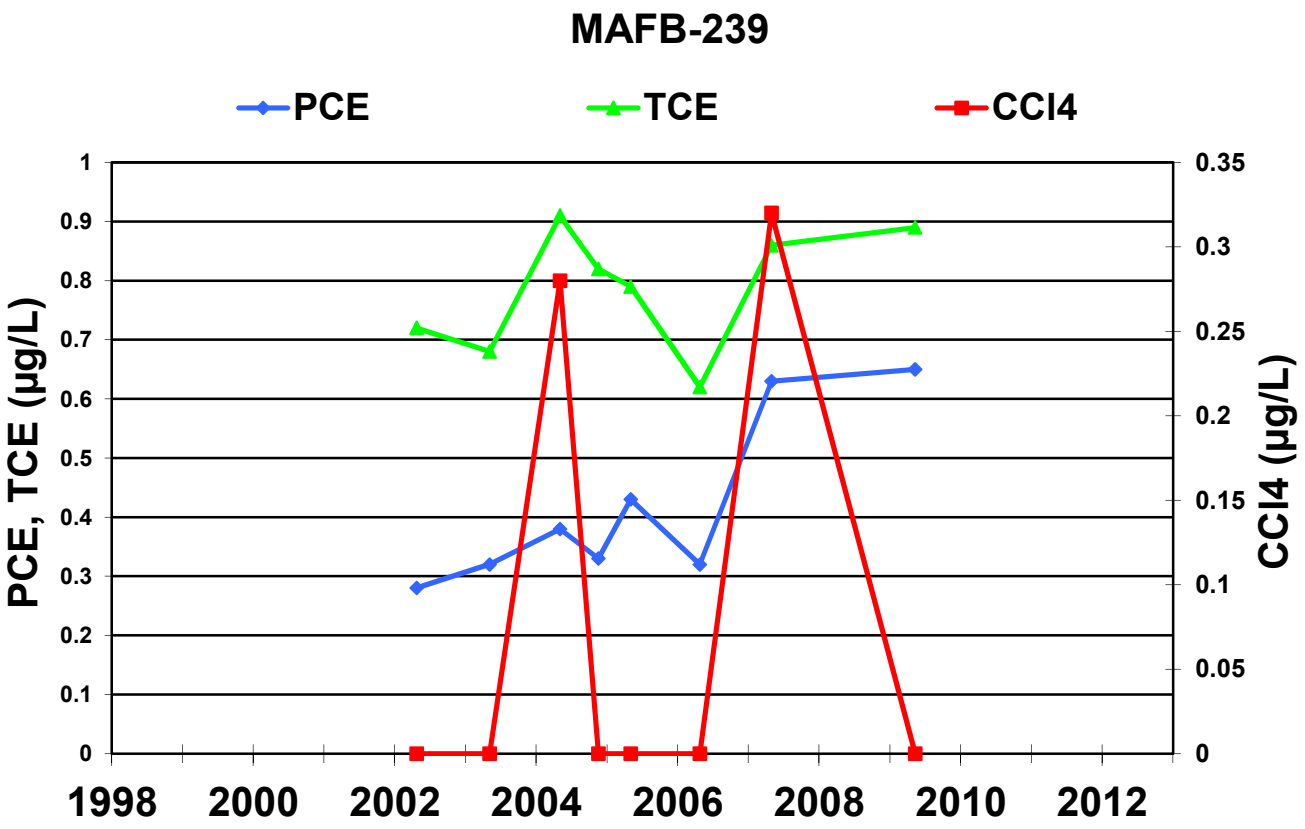

MAFB-231
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

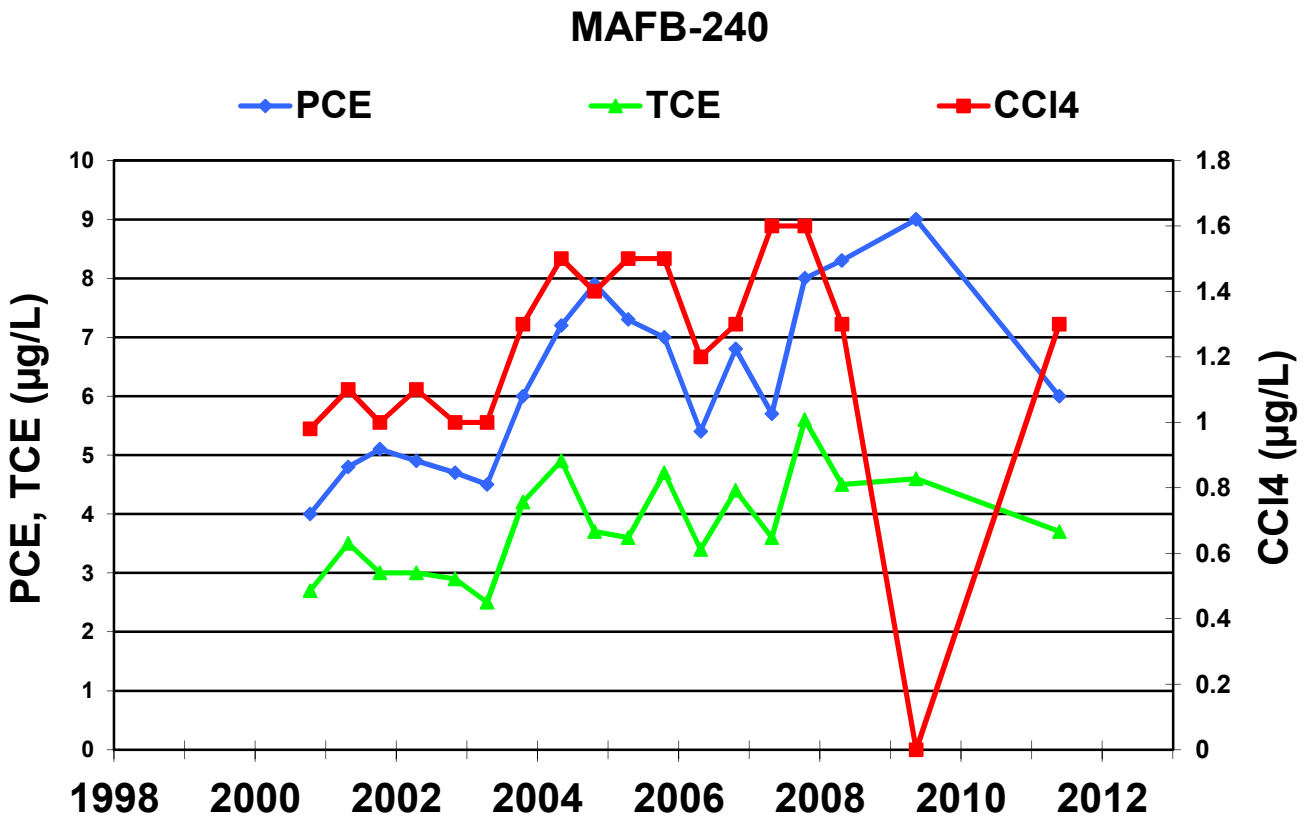

MAFB-232
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3.5
3
2.5
2
1.5
1
0.5
0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

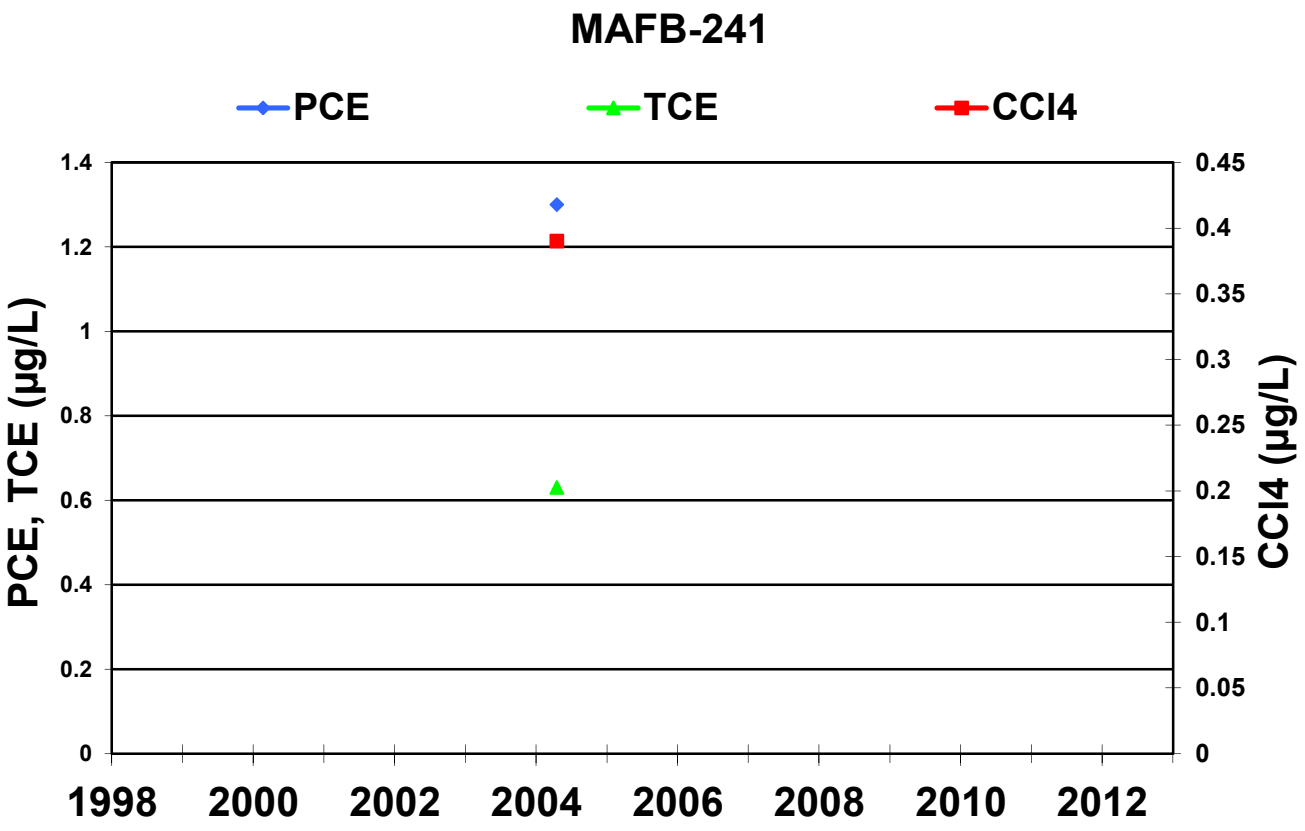

MAFB-233
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

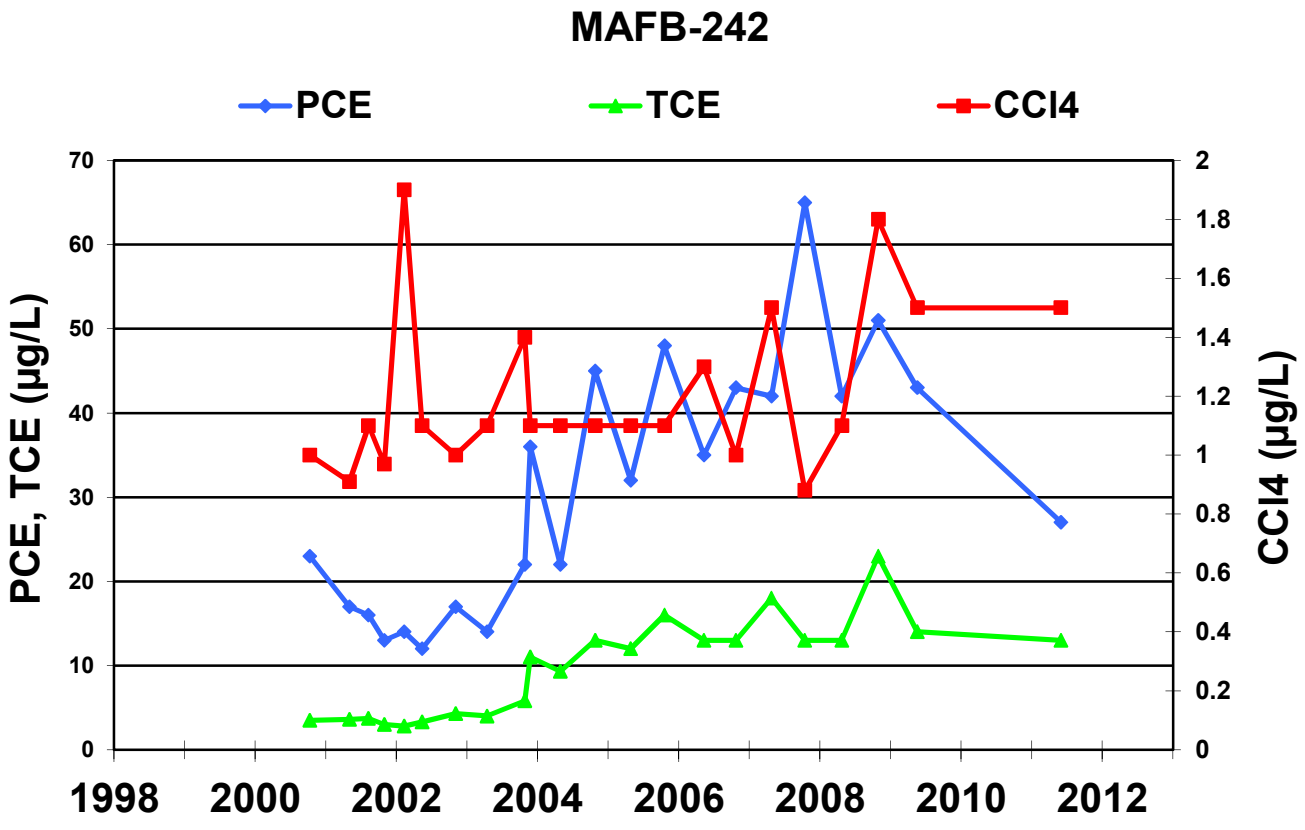

MAFB-234
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
300
250
200
150
100
50
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

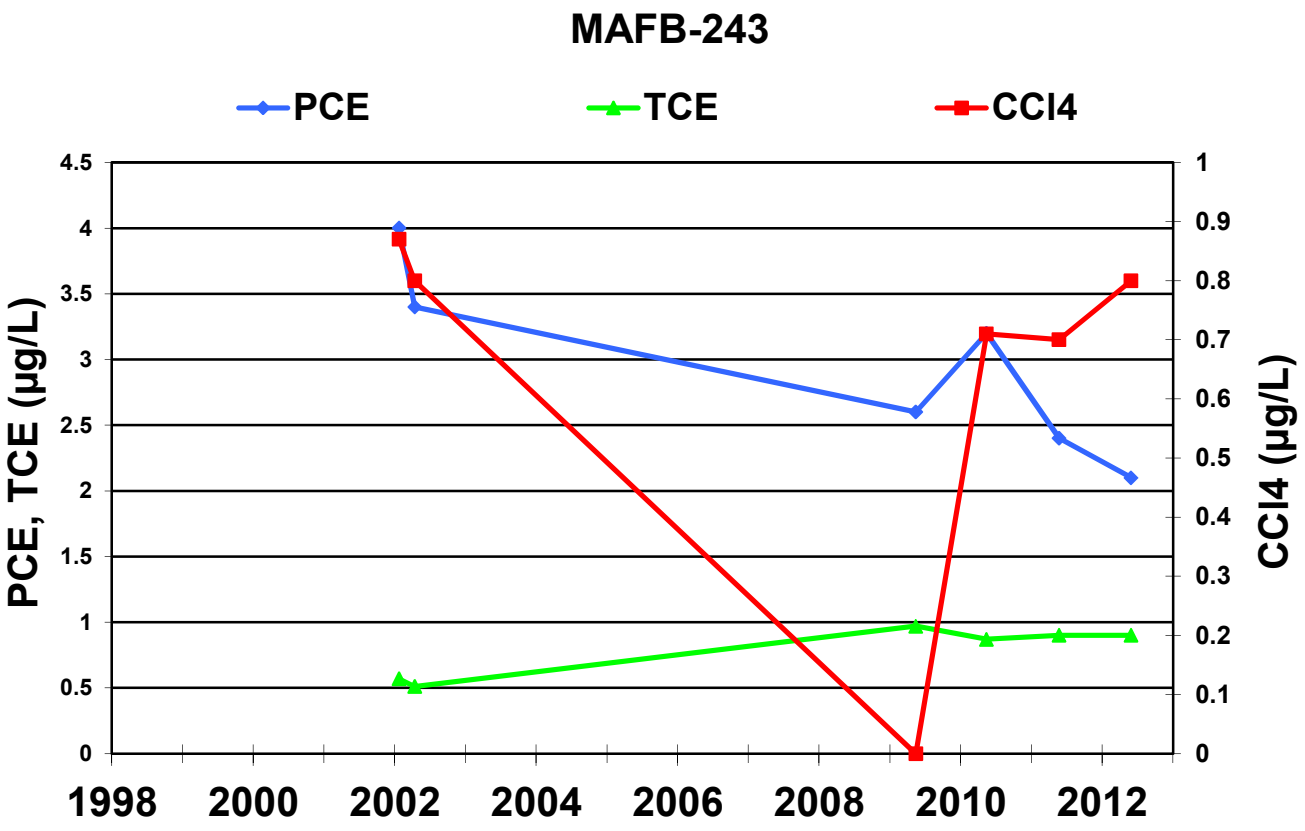

MAFB-235
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

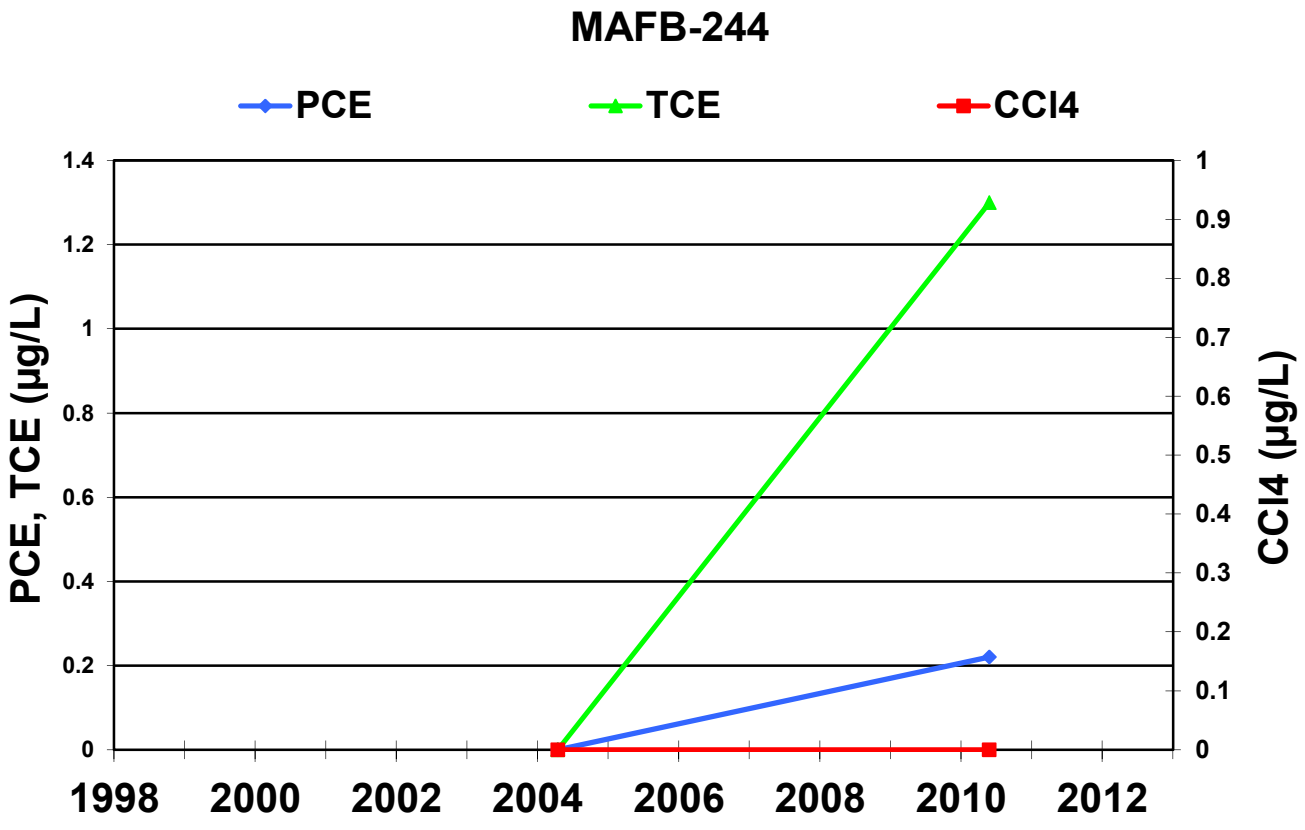

MAFB-239
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

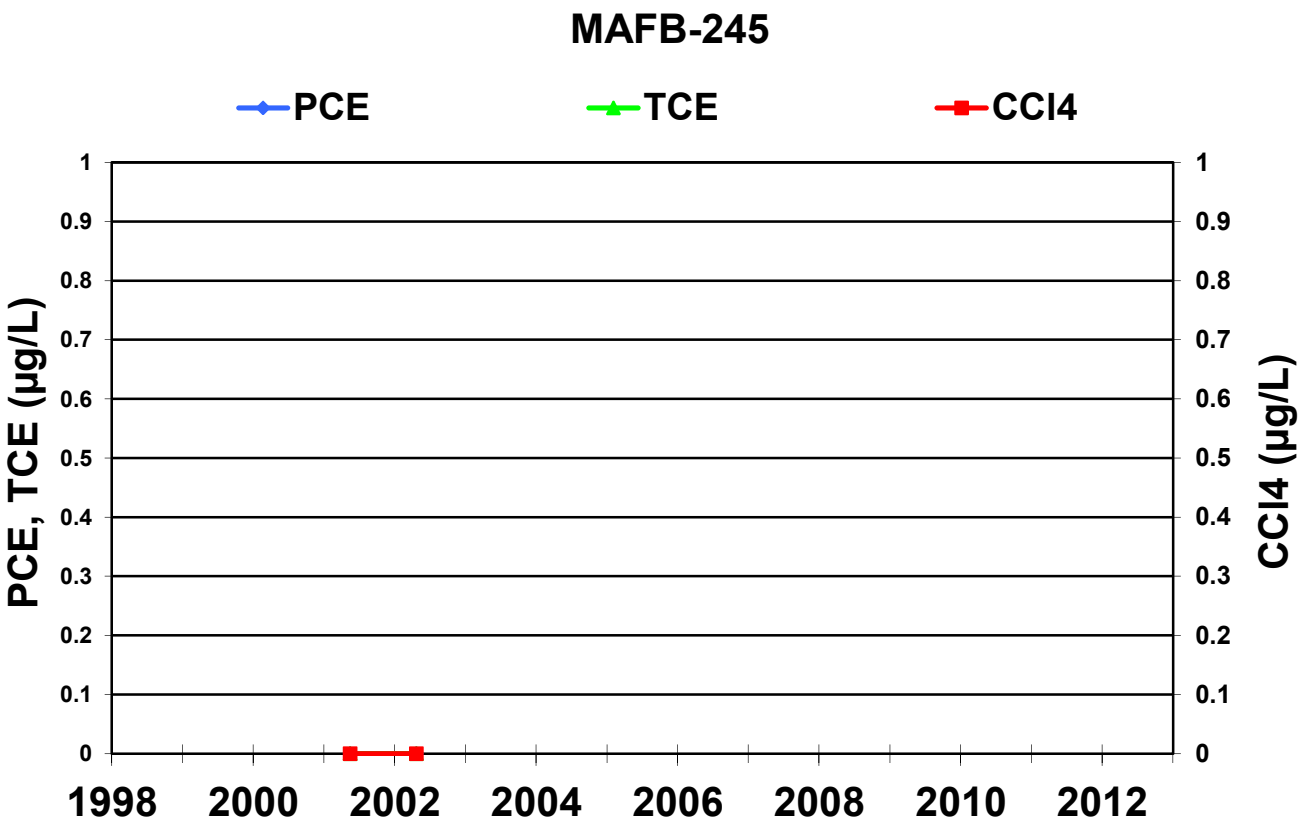

MAFB-240
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
10
9
8
7
6
5
4
3
2
1
0
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

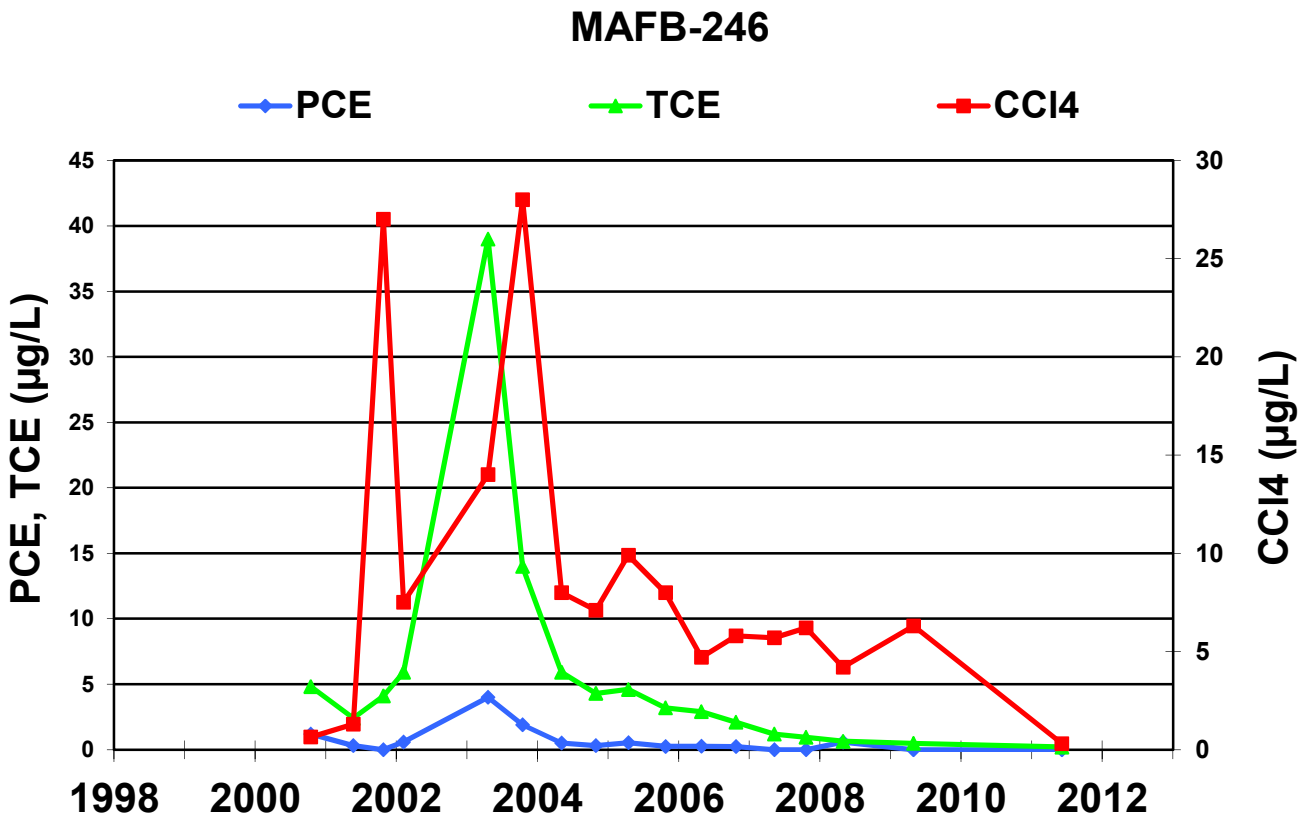

MAFB-241
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

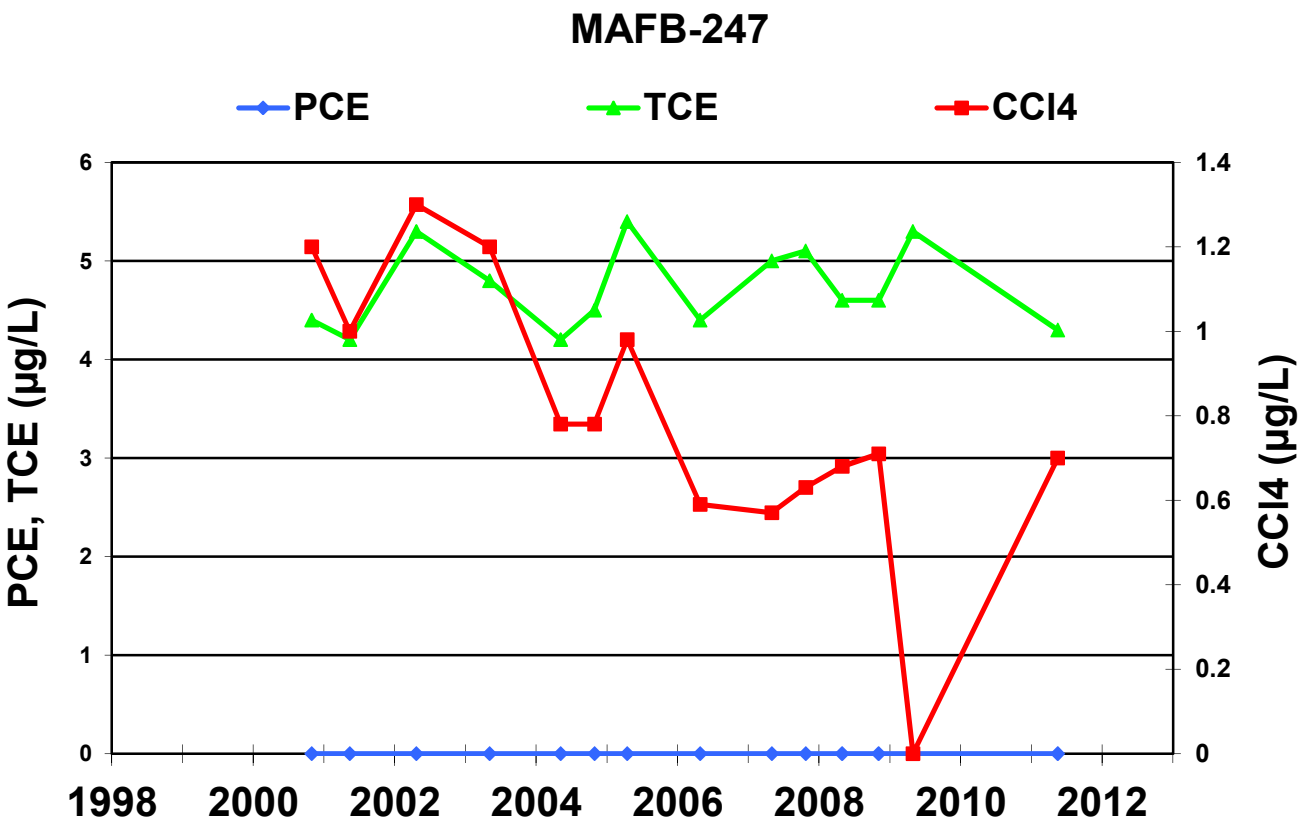

MAFB-242
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
70
60
50
40
30
20
10
0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

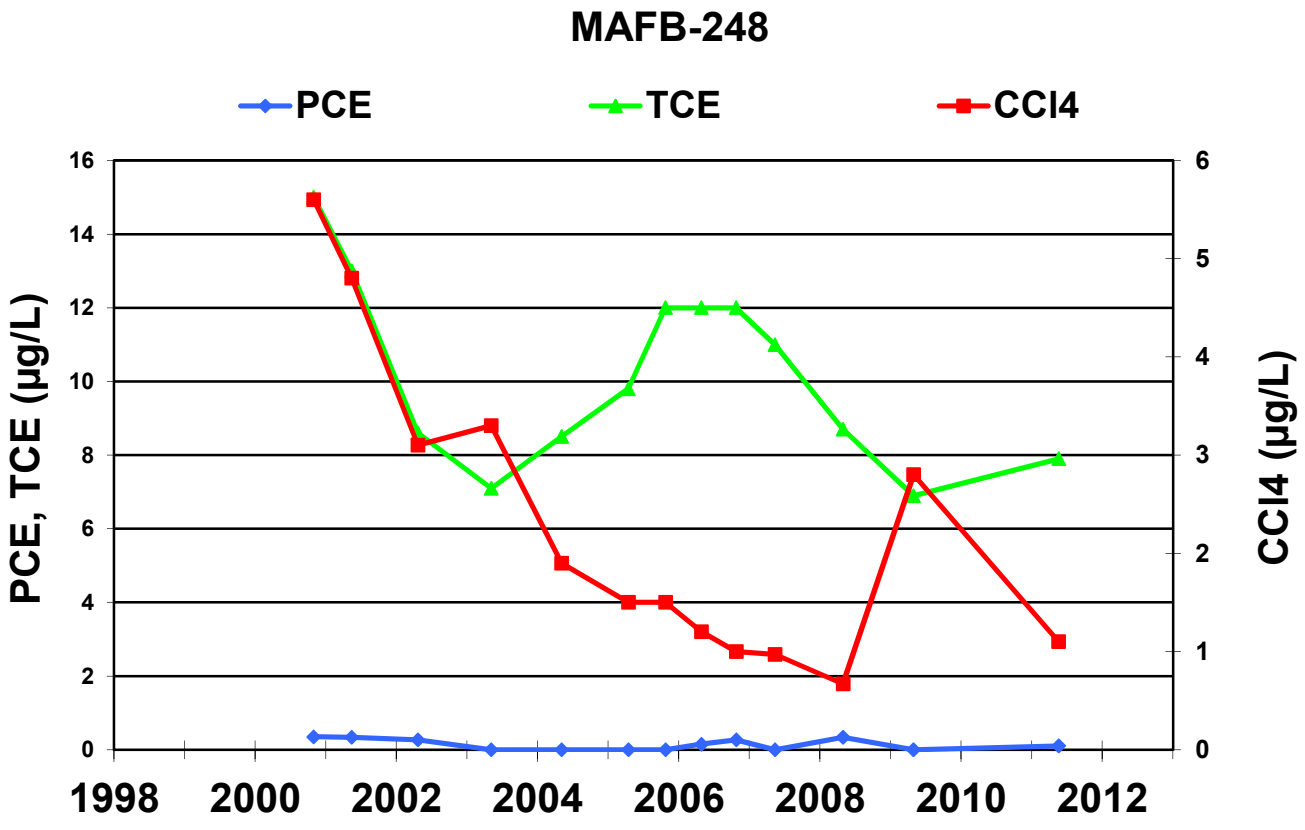

MAFB-243
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

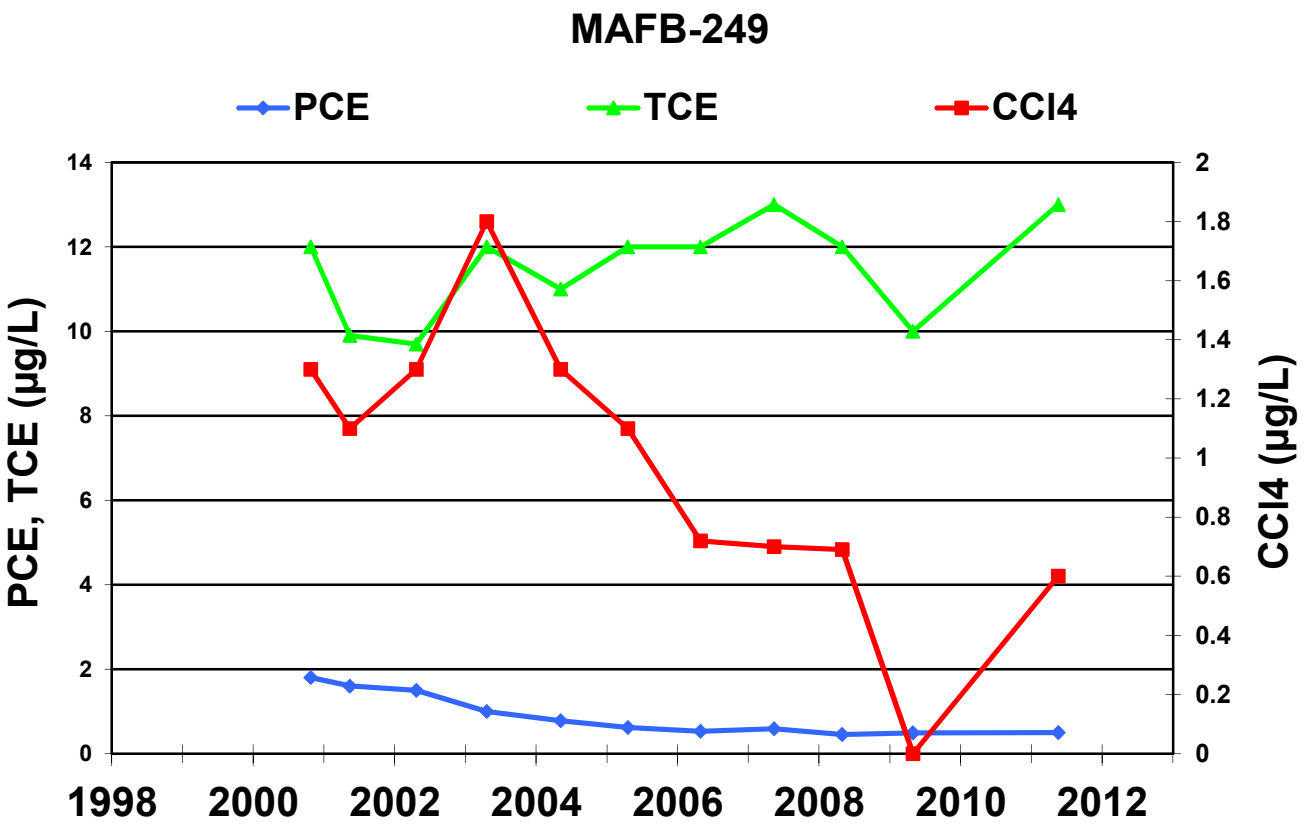

MAFB-244
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

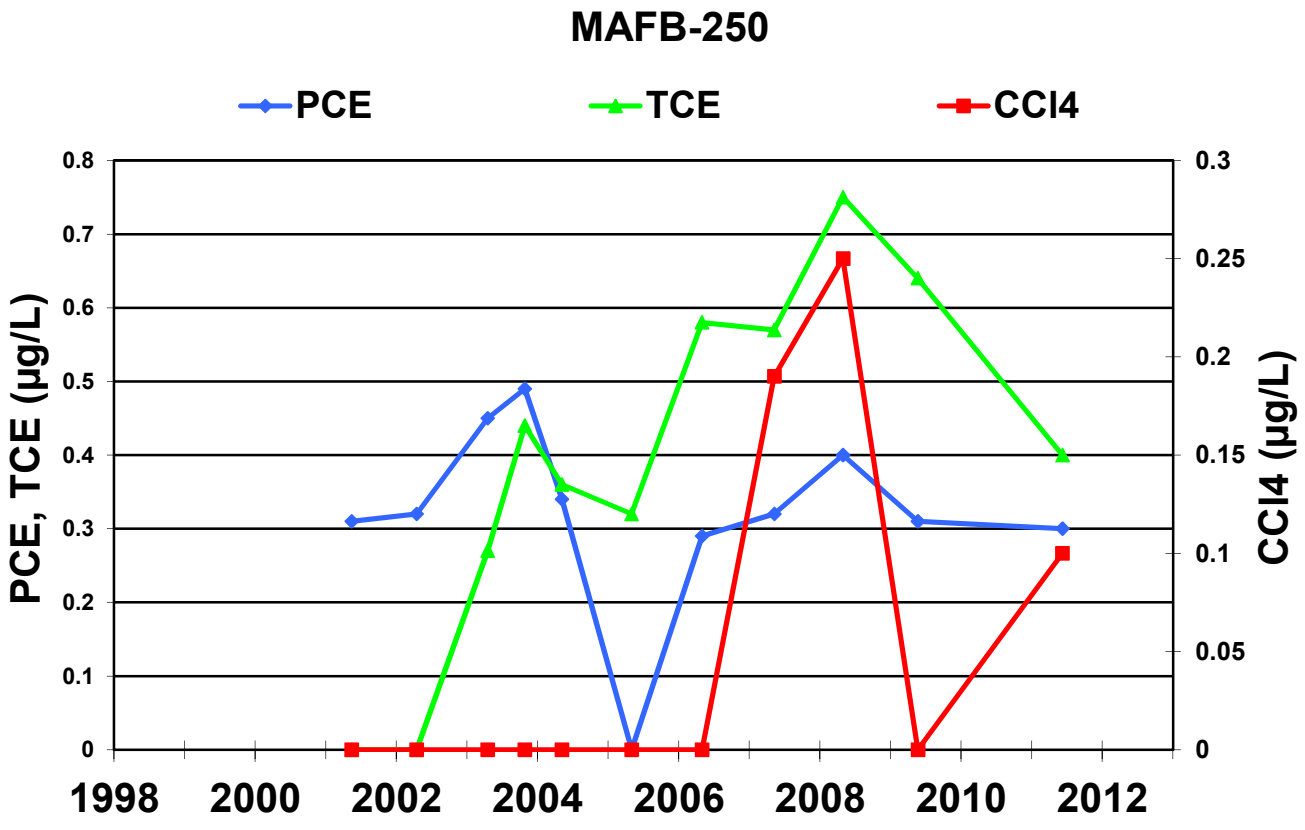

MAFB-245
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

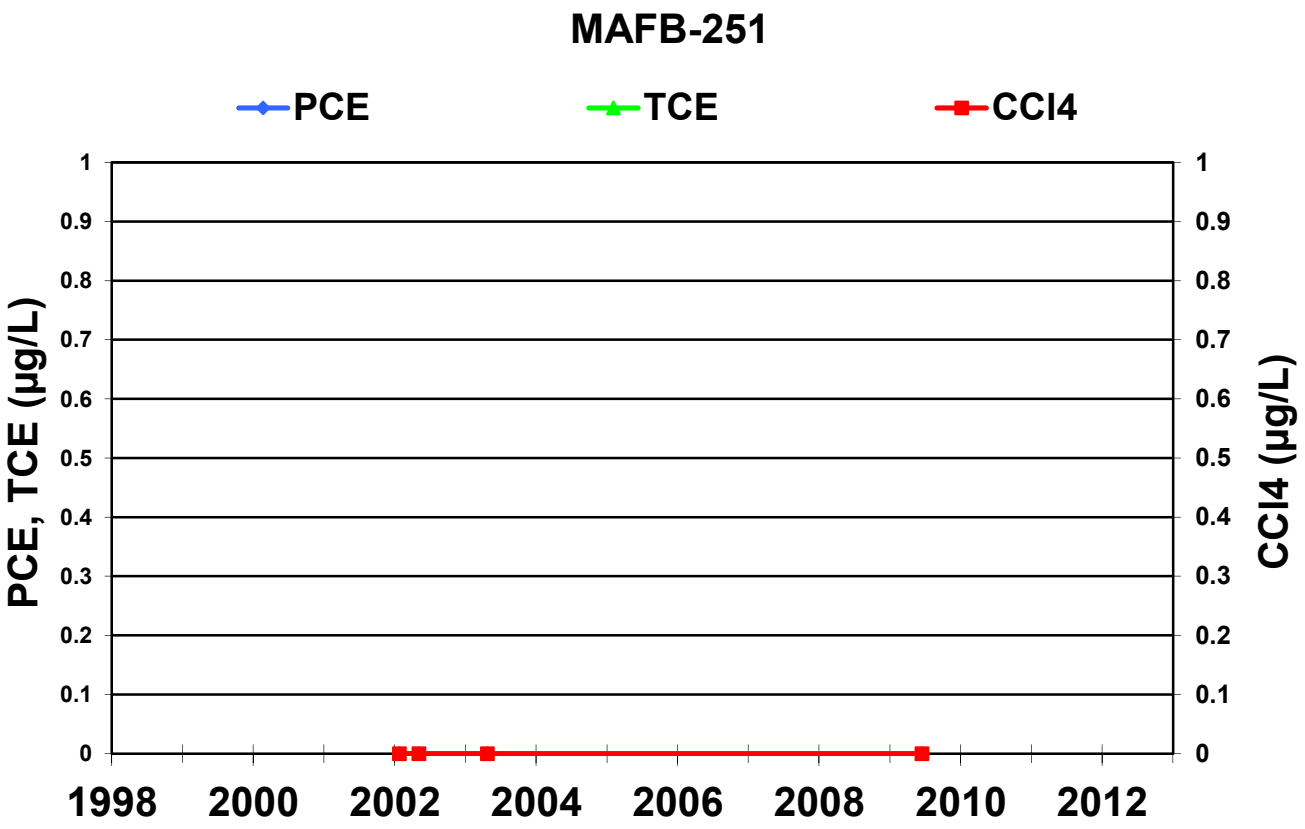

MAFB-246
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
45
40
35
30
25
20
15
10
5
0
30
25
20
15
10
5
0
1998
2000
2002
2004
2006
2008
2010
2012

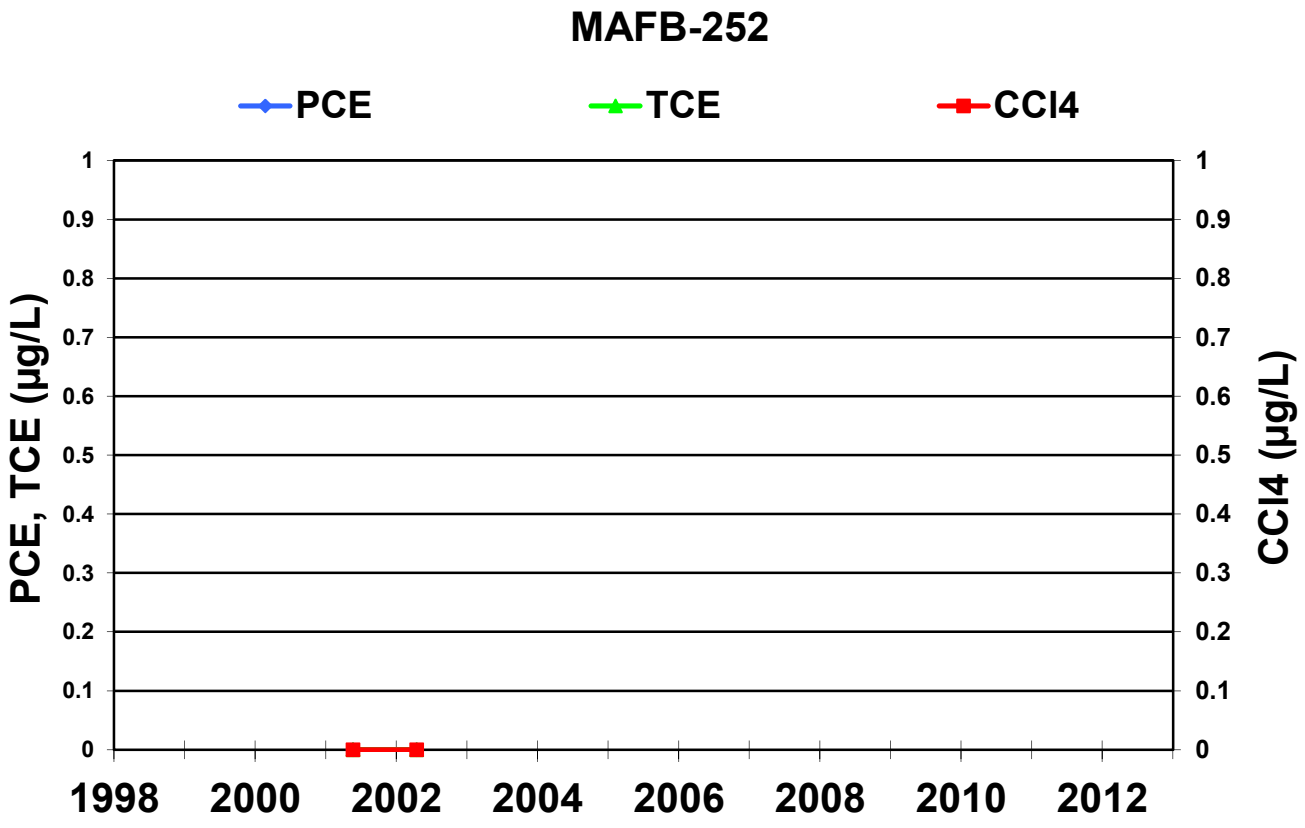

MAFB-247
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
1
2
3
4
5
6
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1998
2000
2002
2004
2006
2008
2010
2012

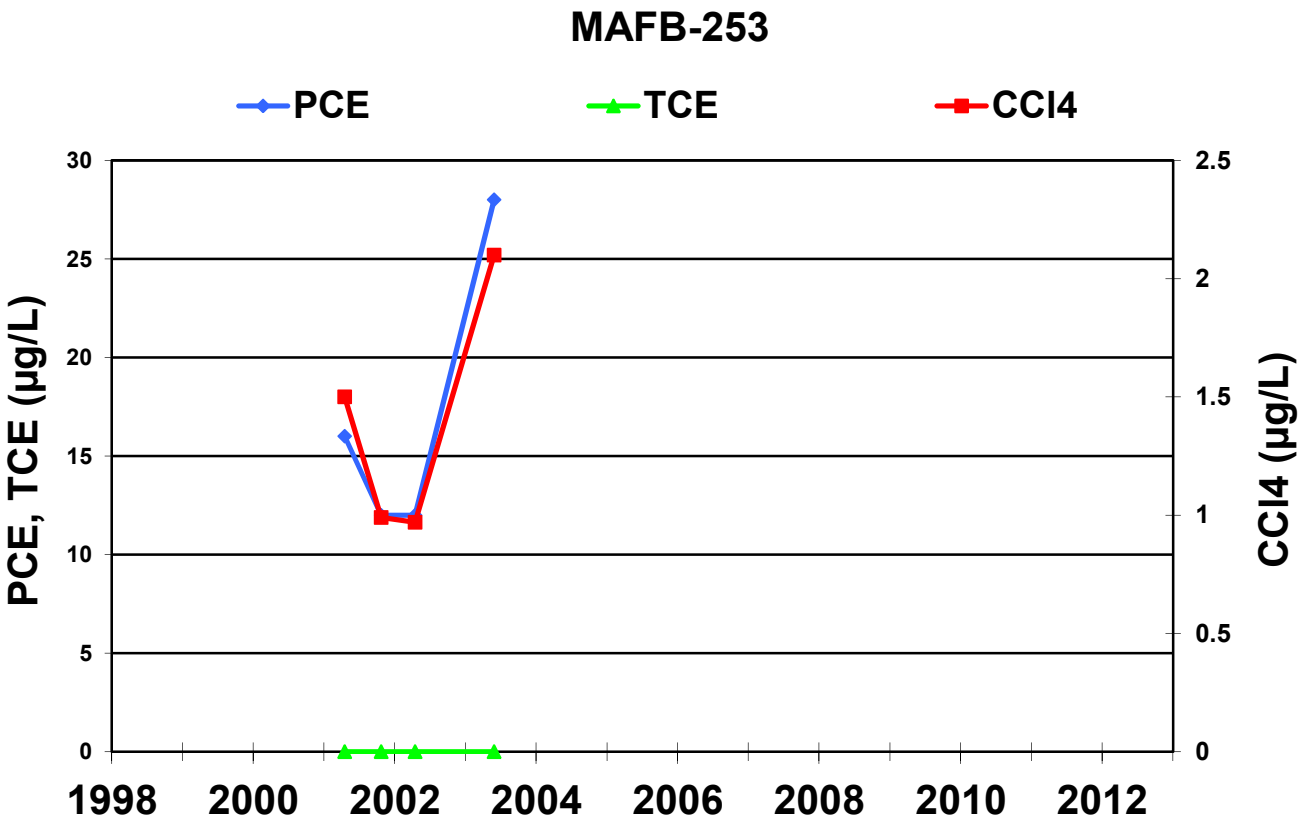

MAFB-248
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
2
4
6
8
10
12
14
16
0
1
2
3
4
5
6
1998
2000
2002
2004
2006
2008
2010
2012

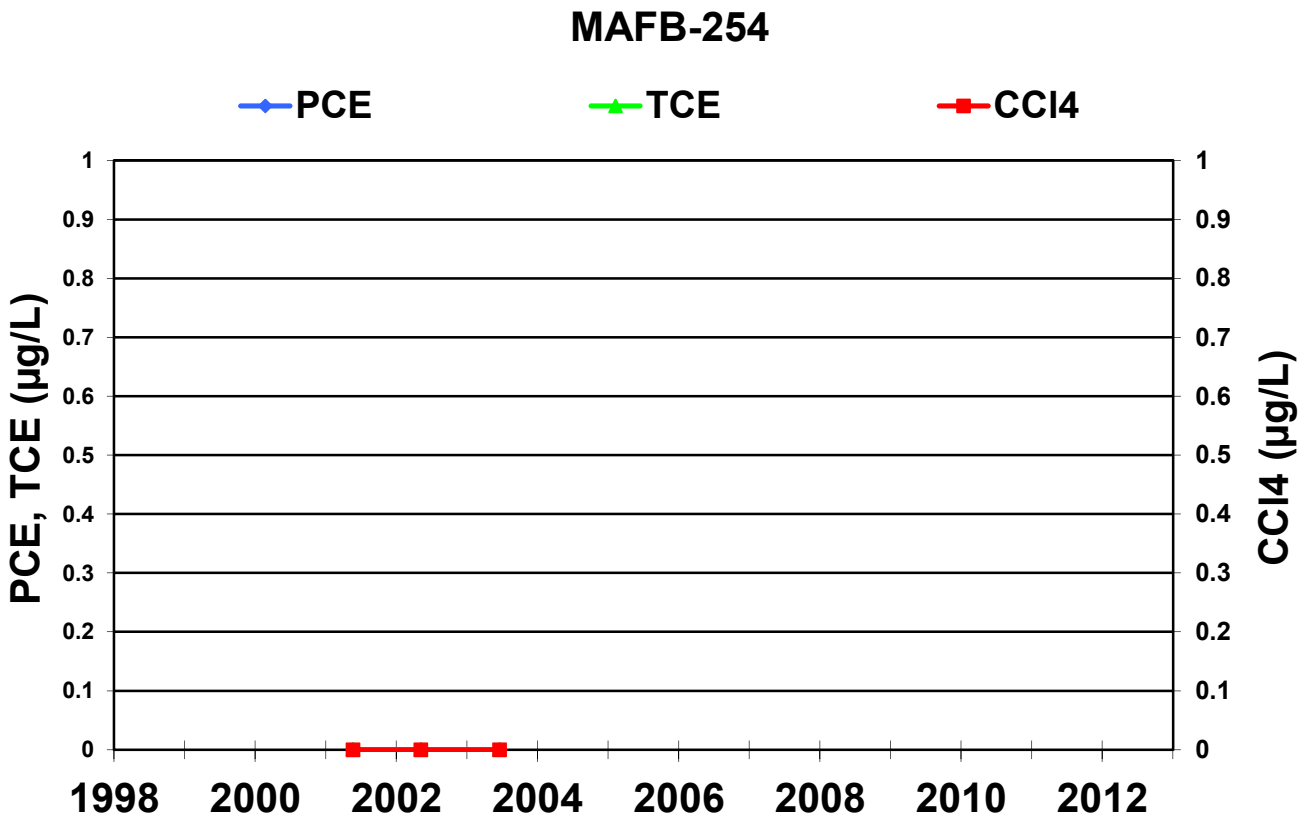

MAFB-249
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
2
4
6
8
10
12
14
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
1998
2000
2002
2004
2006
2008
2010
2012

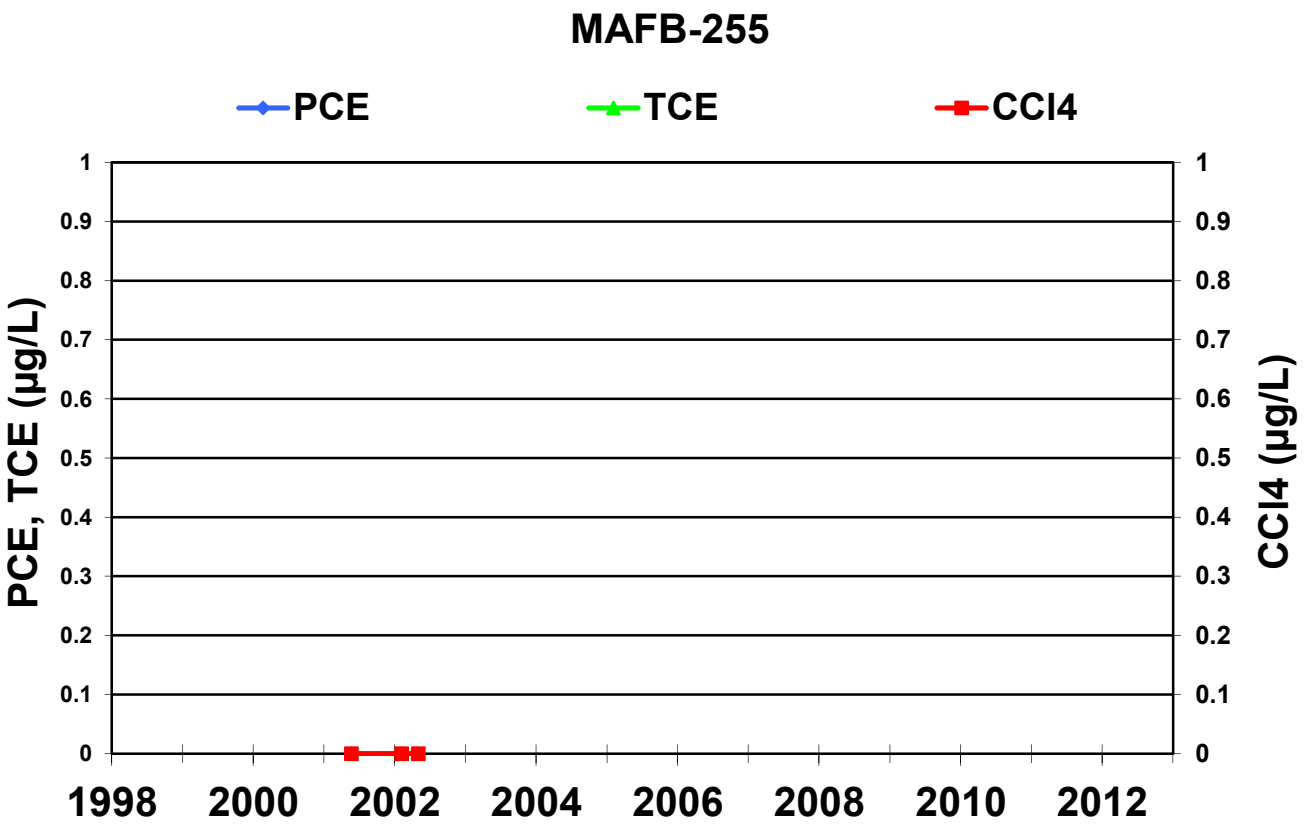

MAFB-250
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0
0.05
0.1
0.15
0.2
0.25
0.3
1998
2000
2002
2004
2006
2008
2010
2012

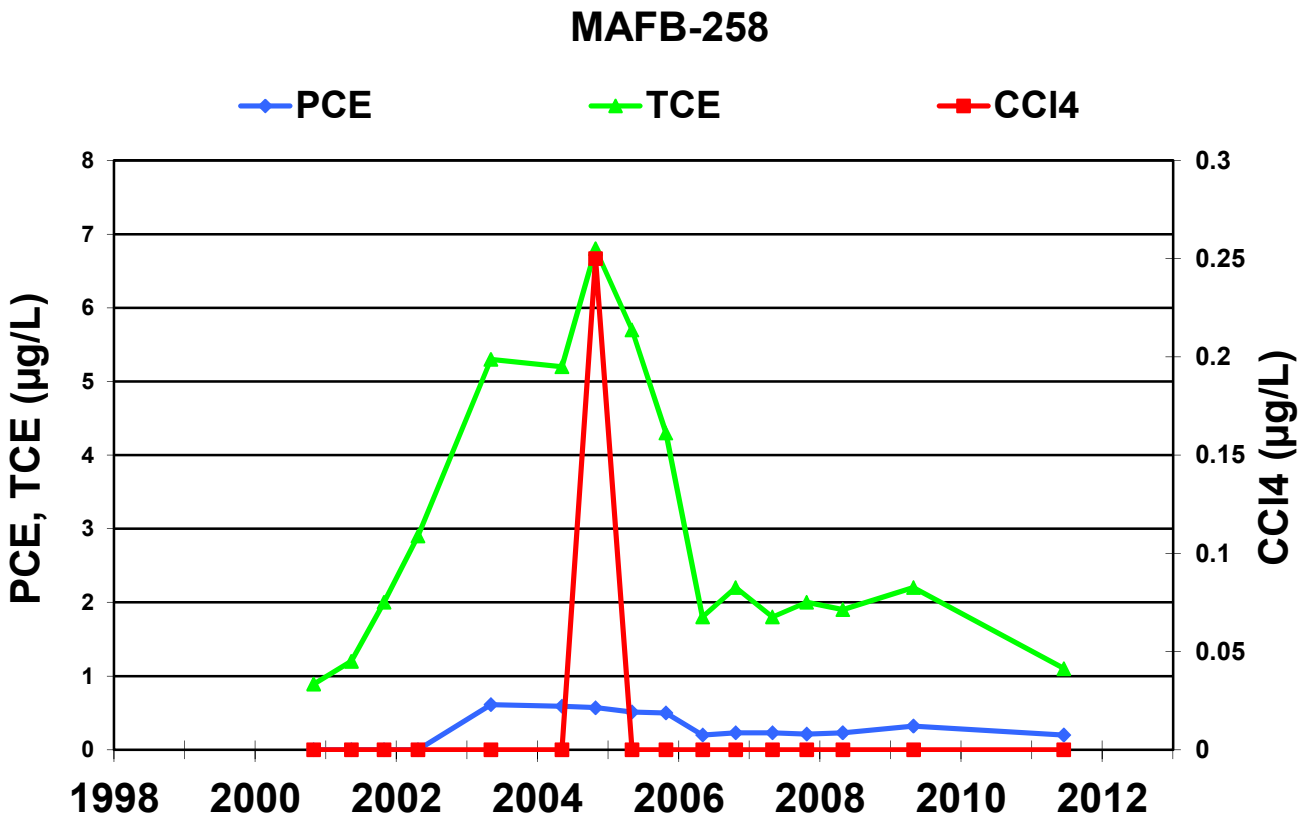

MAFB-251
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

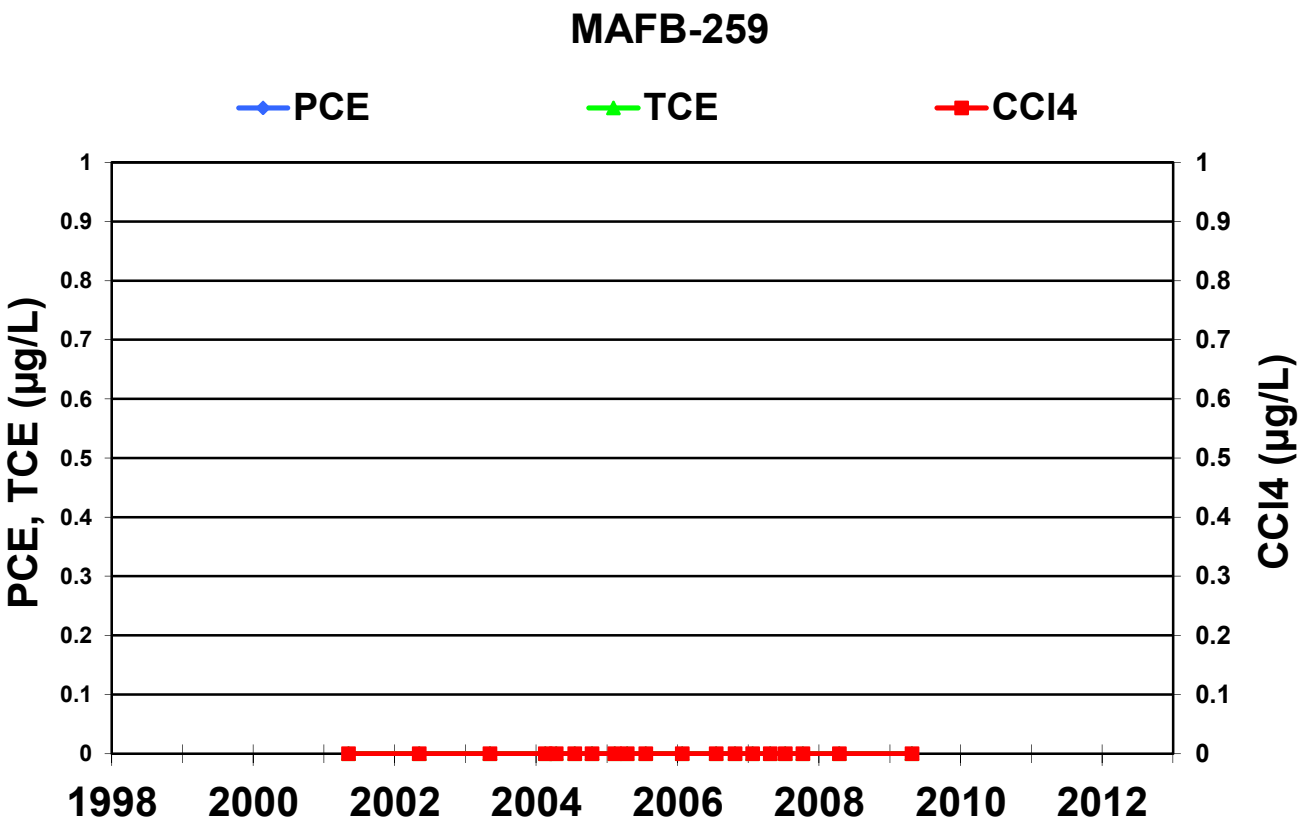

MAFB-252
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

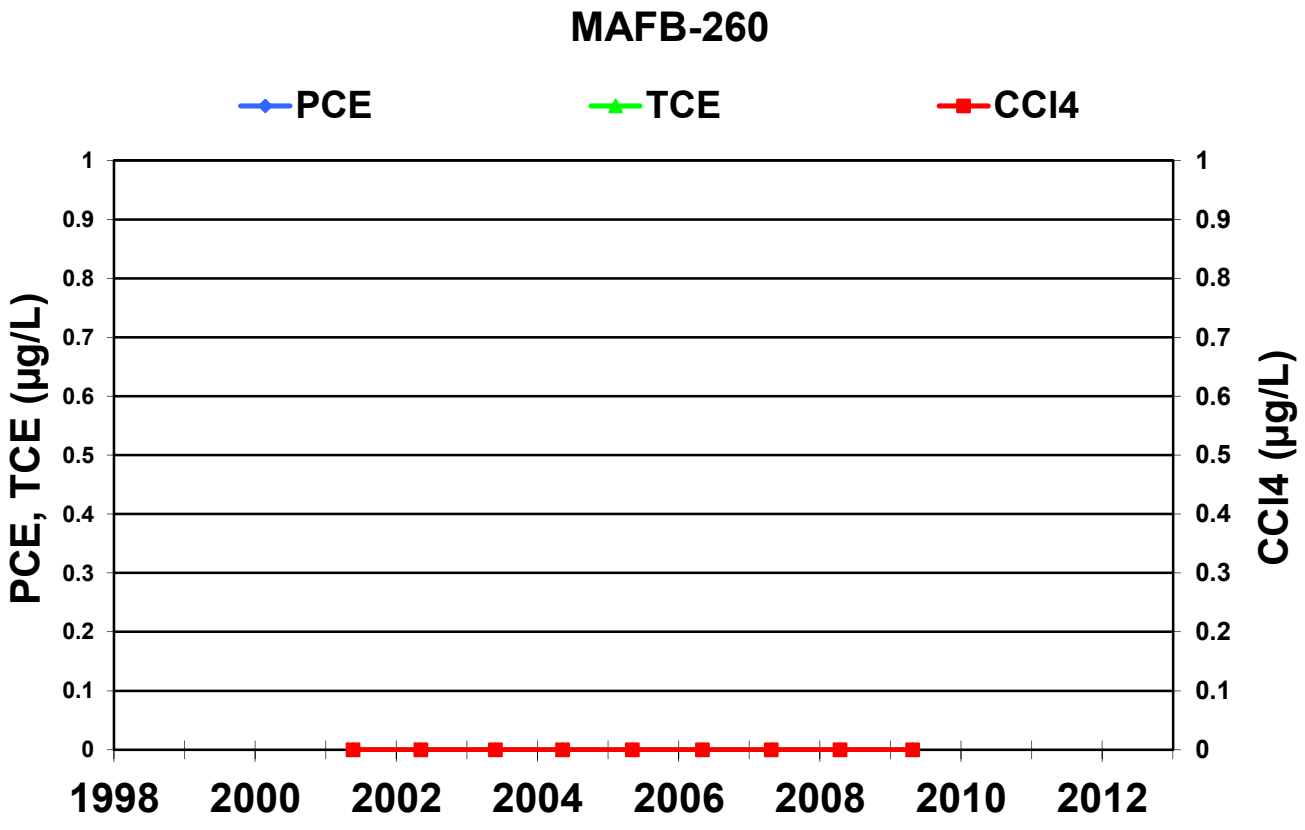

MAFB-253
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
30
25
20
15
10
5
0
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

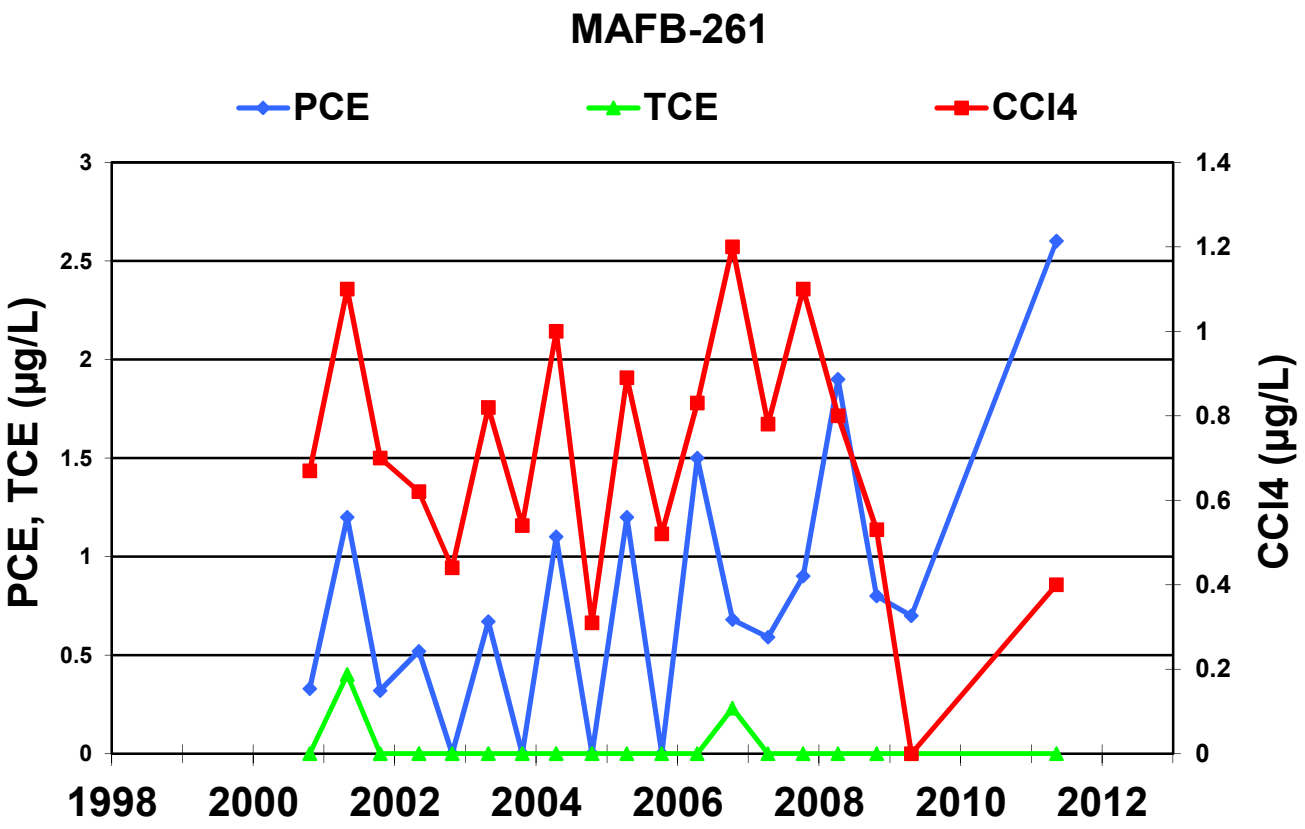

MAFB-254
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

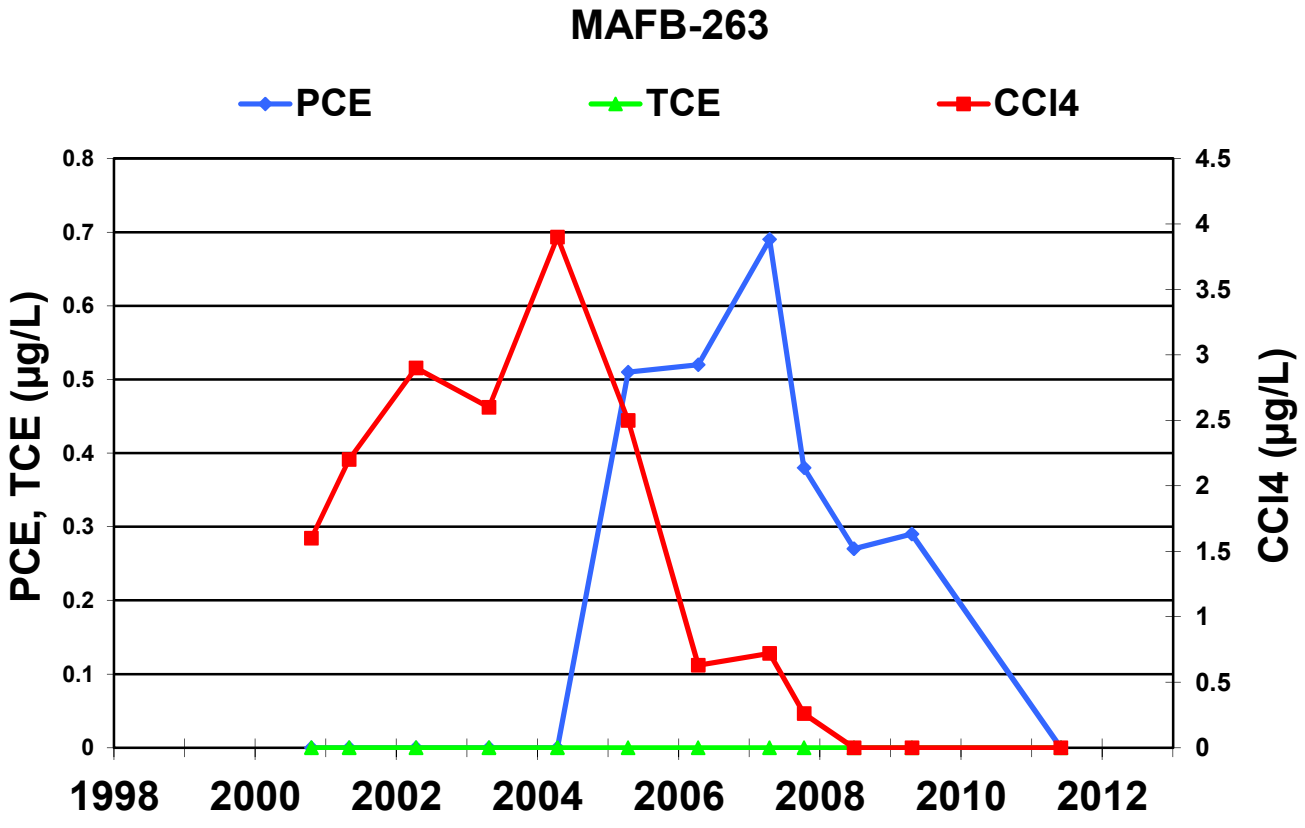

MAFB-255
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

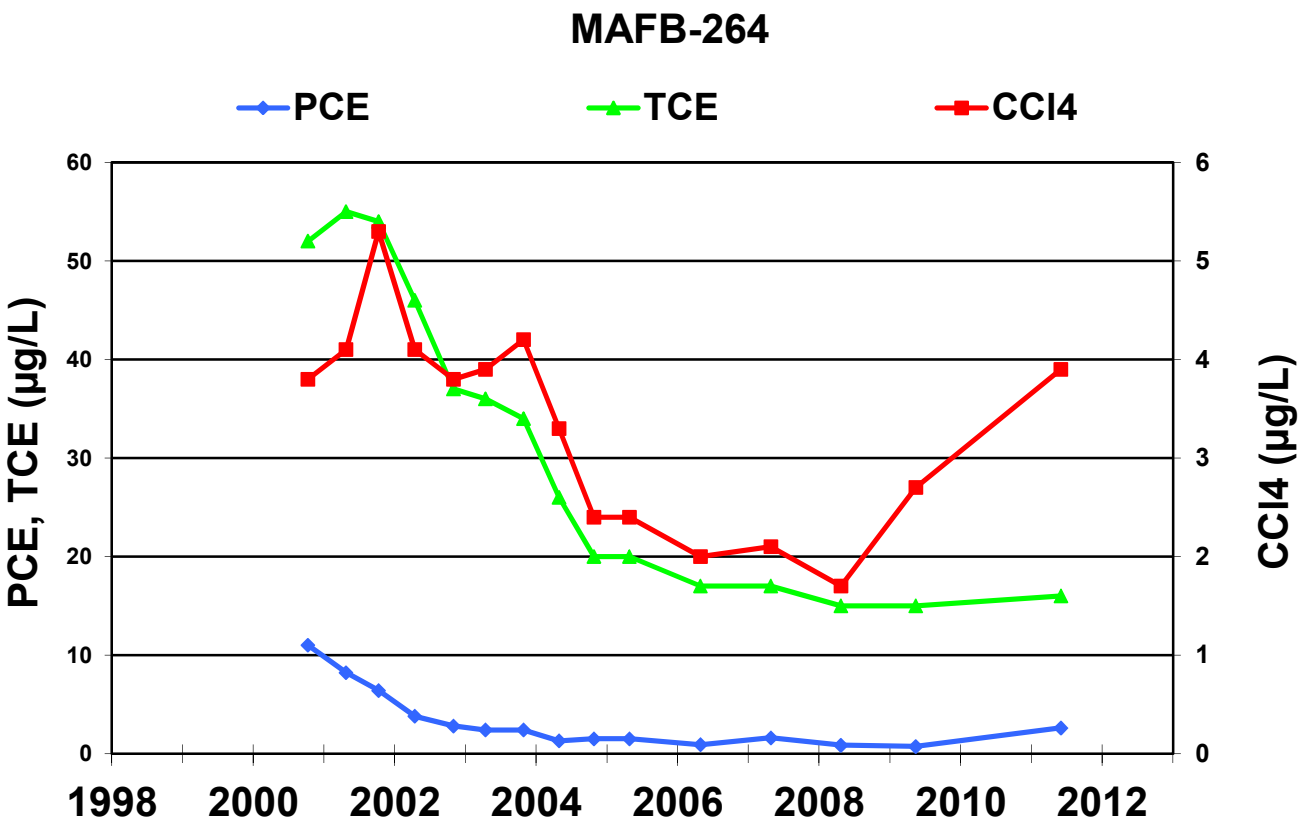

MAFB-258
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
8
7
6
5
4
3
2
1
0
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

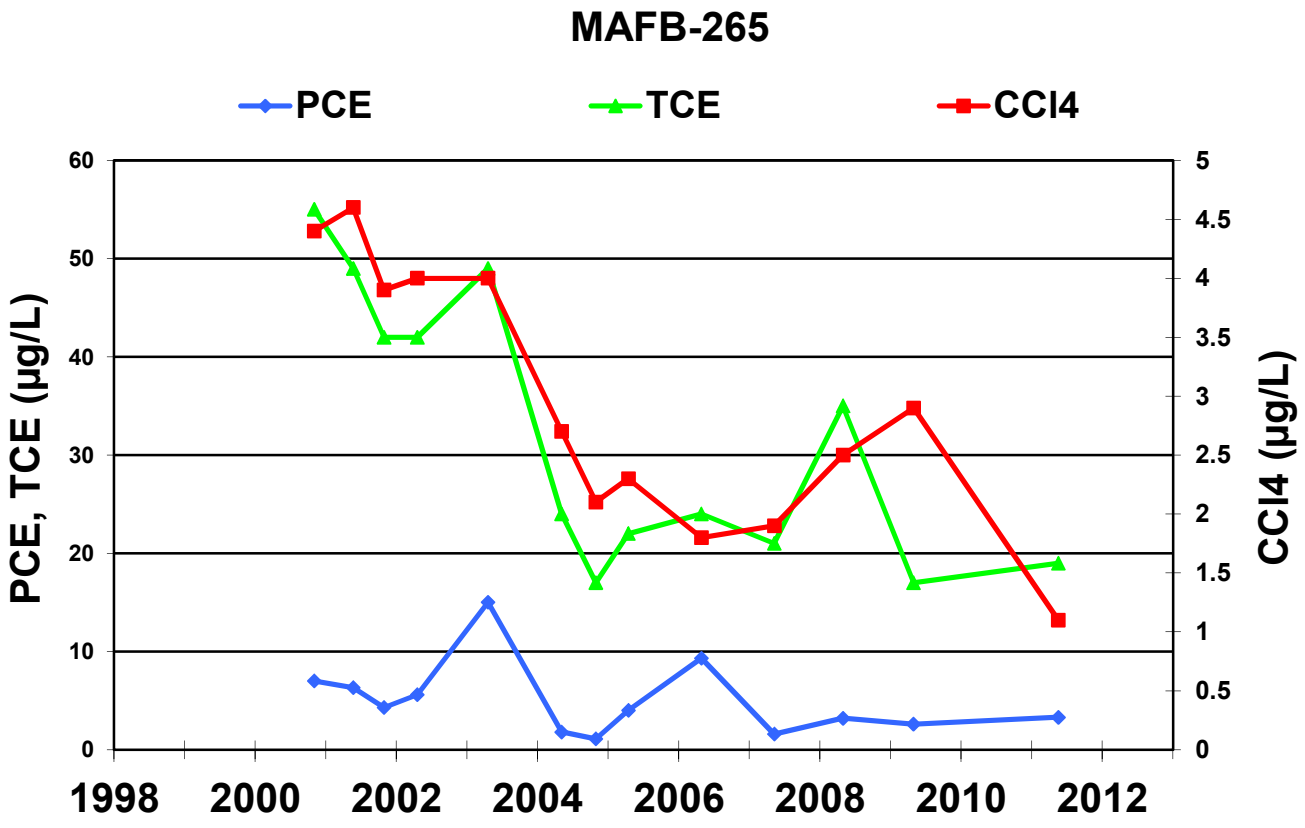

MAFB-259
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

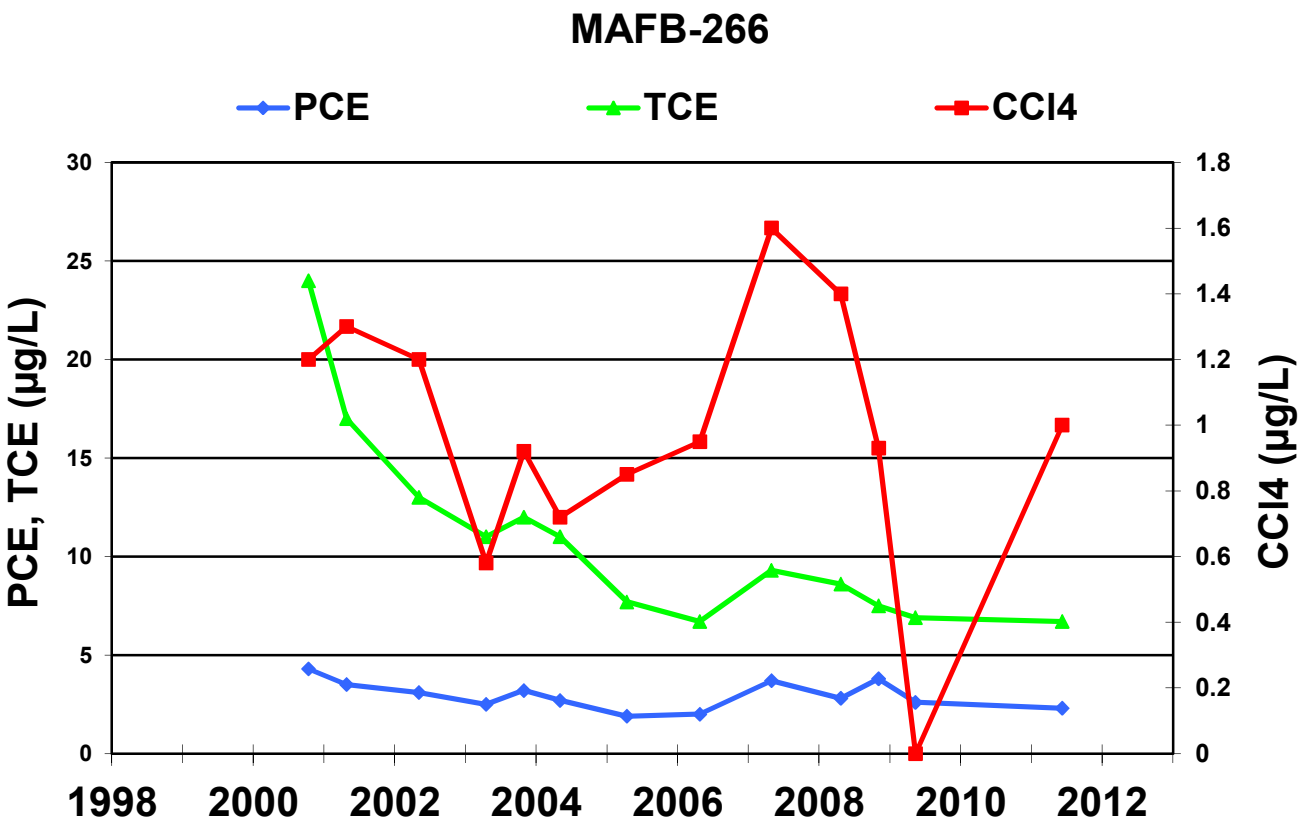

MAFB-260
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

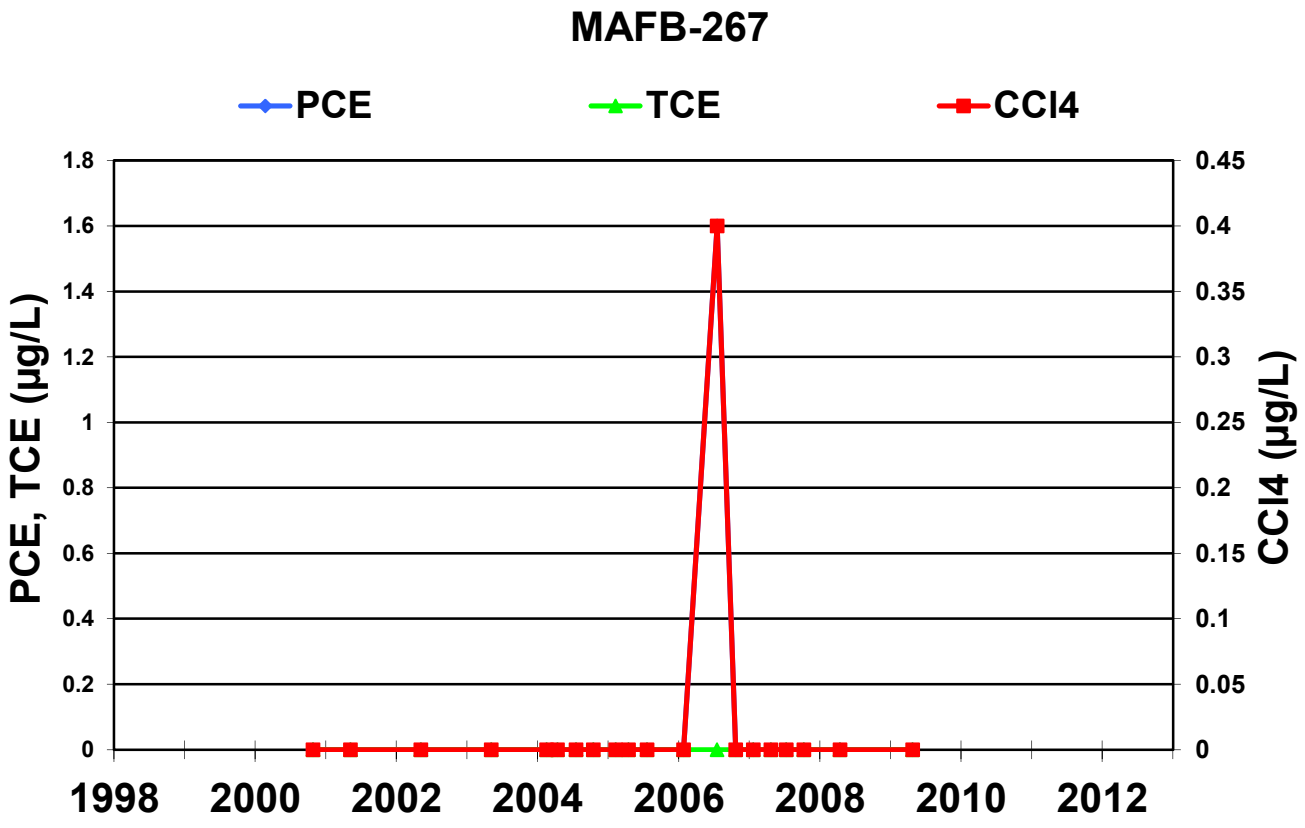

MAFB-261
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3
2.5
2
1.5
1
0.5
0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

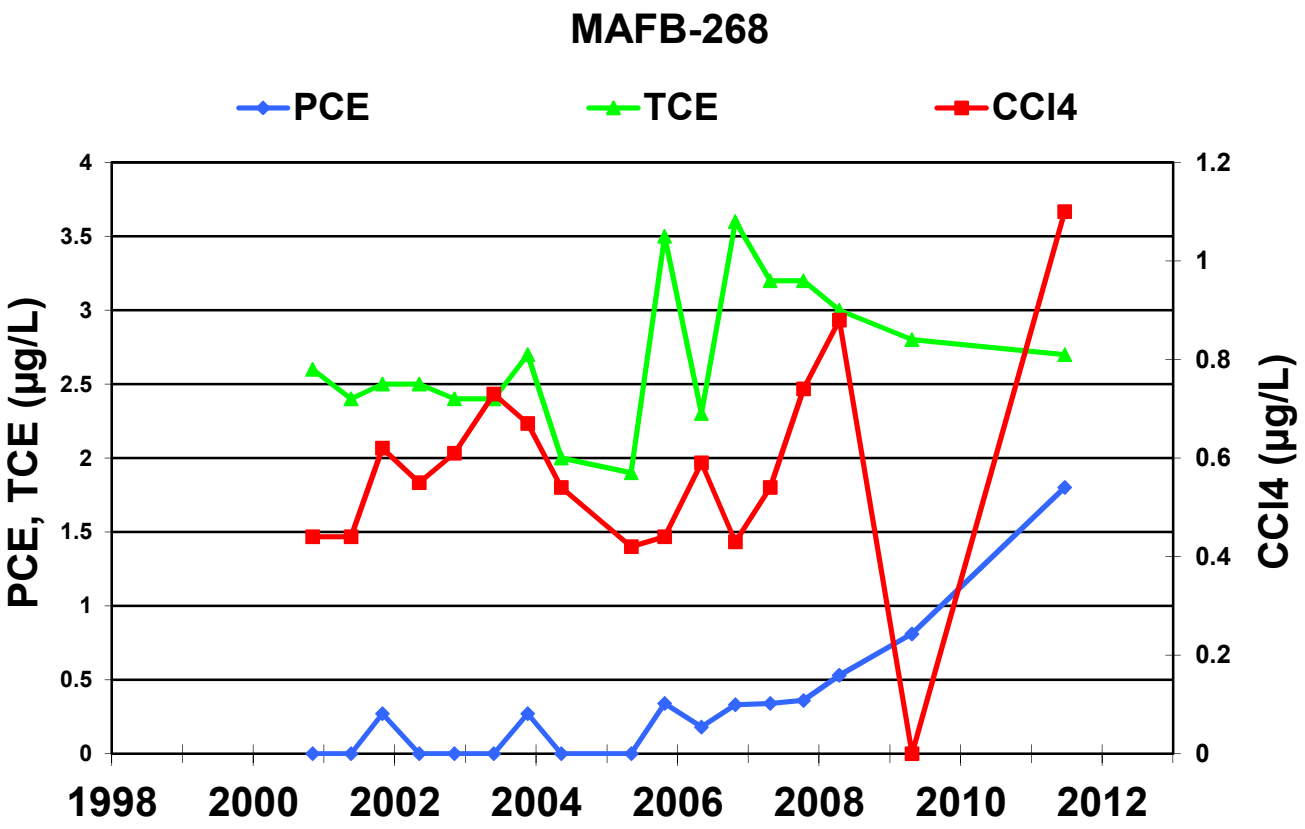

MAFB-263
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

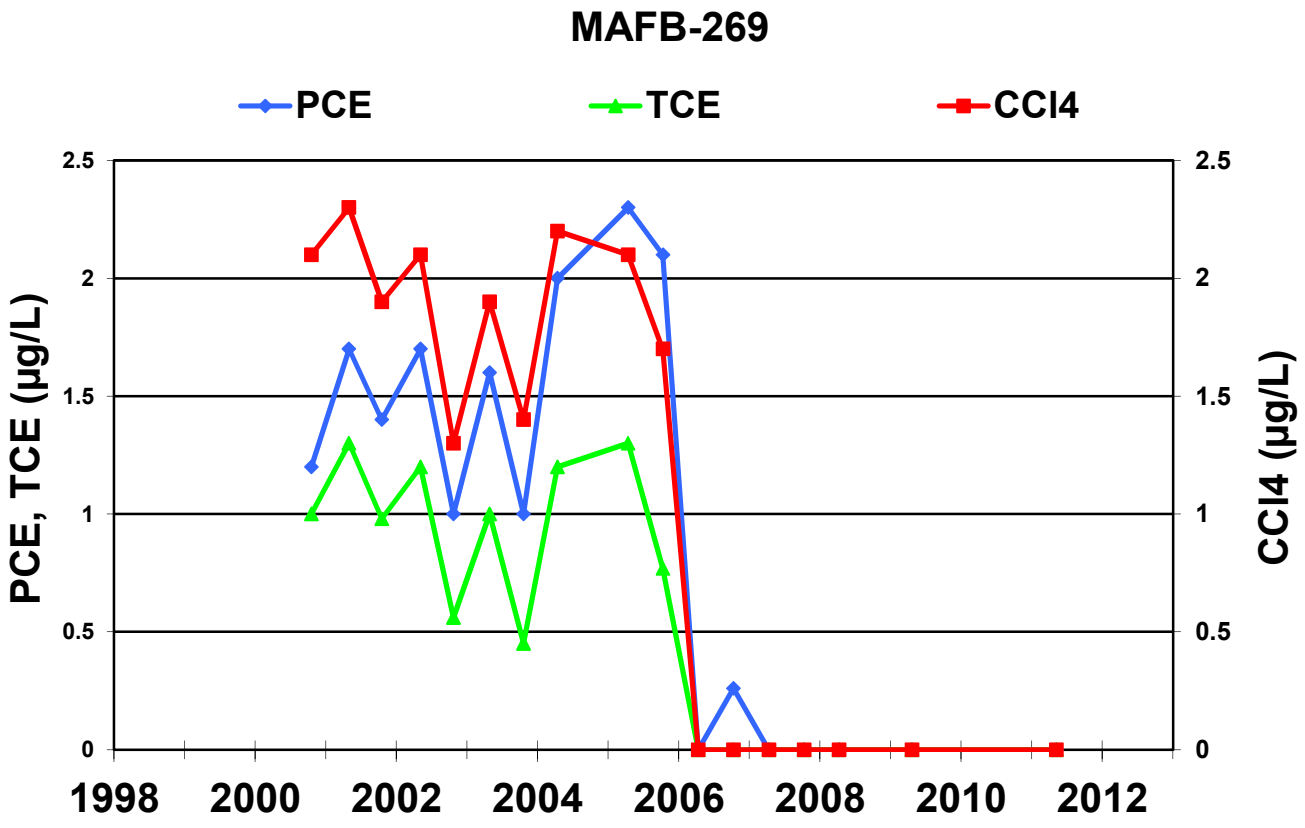

MAFB-264
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
60
50
40
30
20
10
0
6
5
4
3
2
1
0
1998
2000
2002
2004
2006
2008
2010
2012

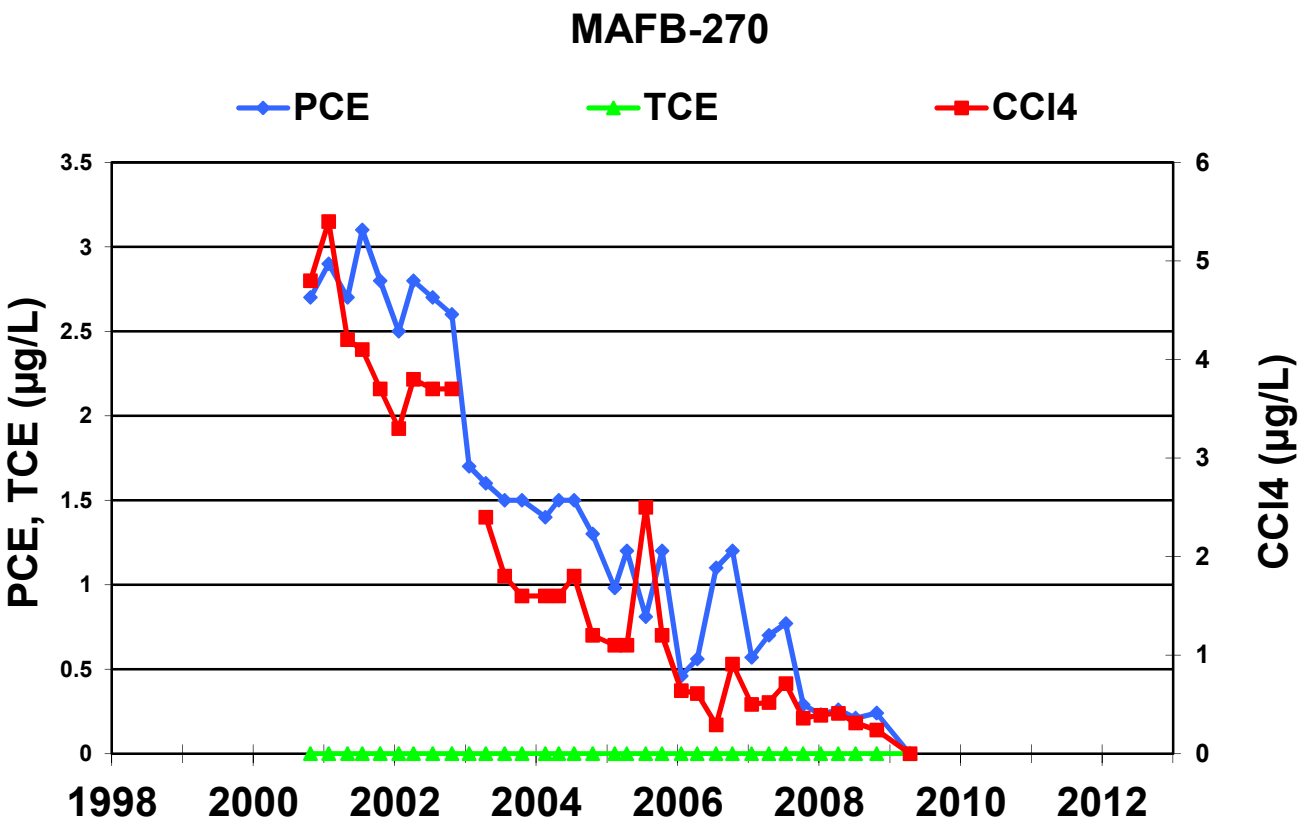

MAFB-265
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
60
50
40
30
20
10
0
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

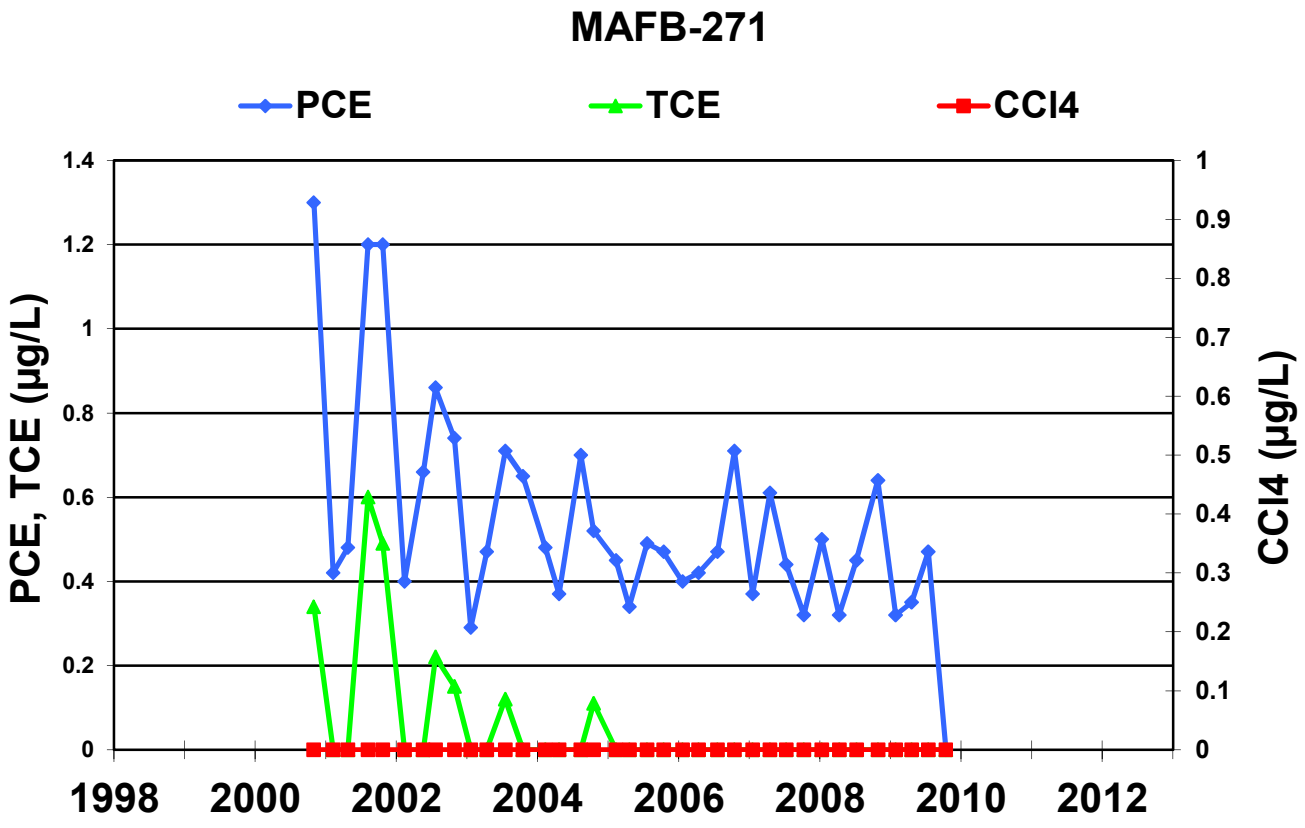

MAFB-266
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
30
25
20
15
10
5
0
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

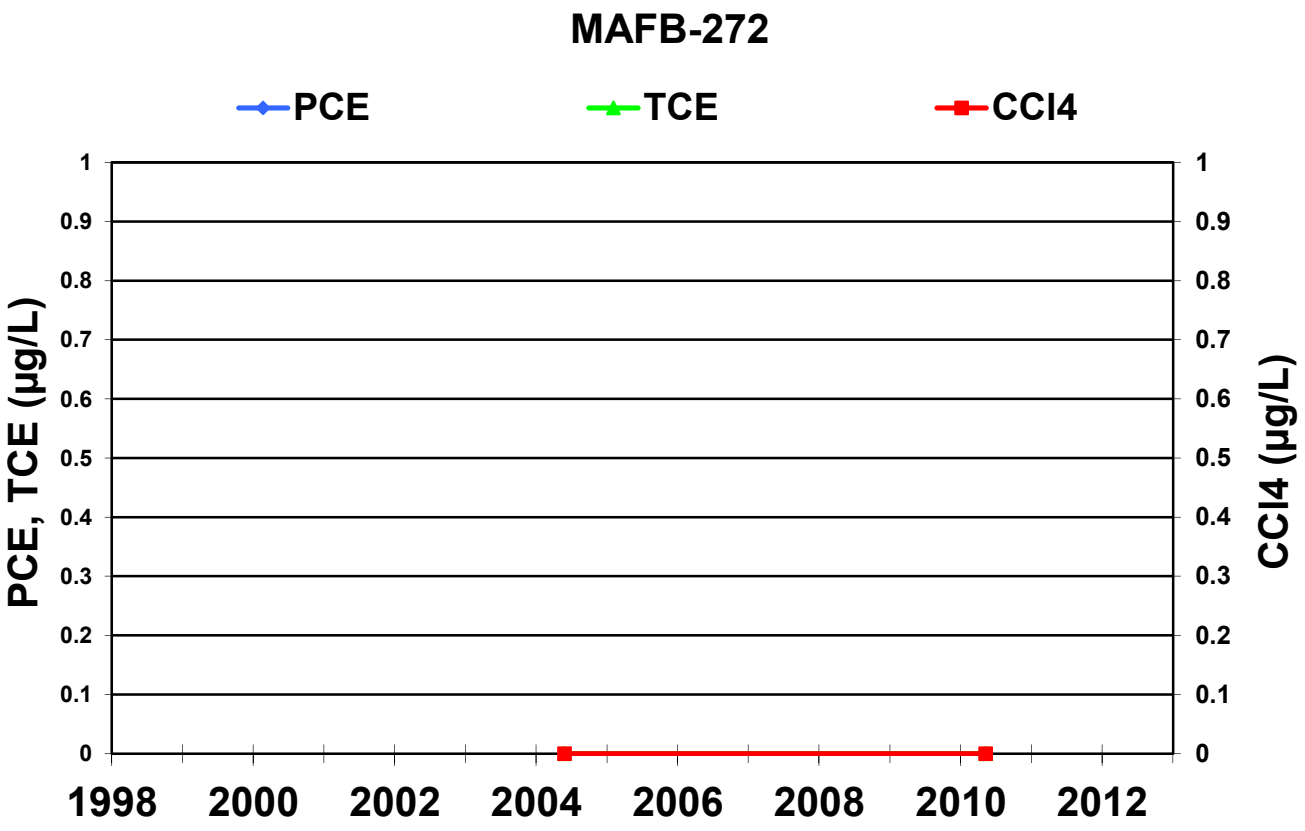

MAFB-267
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

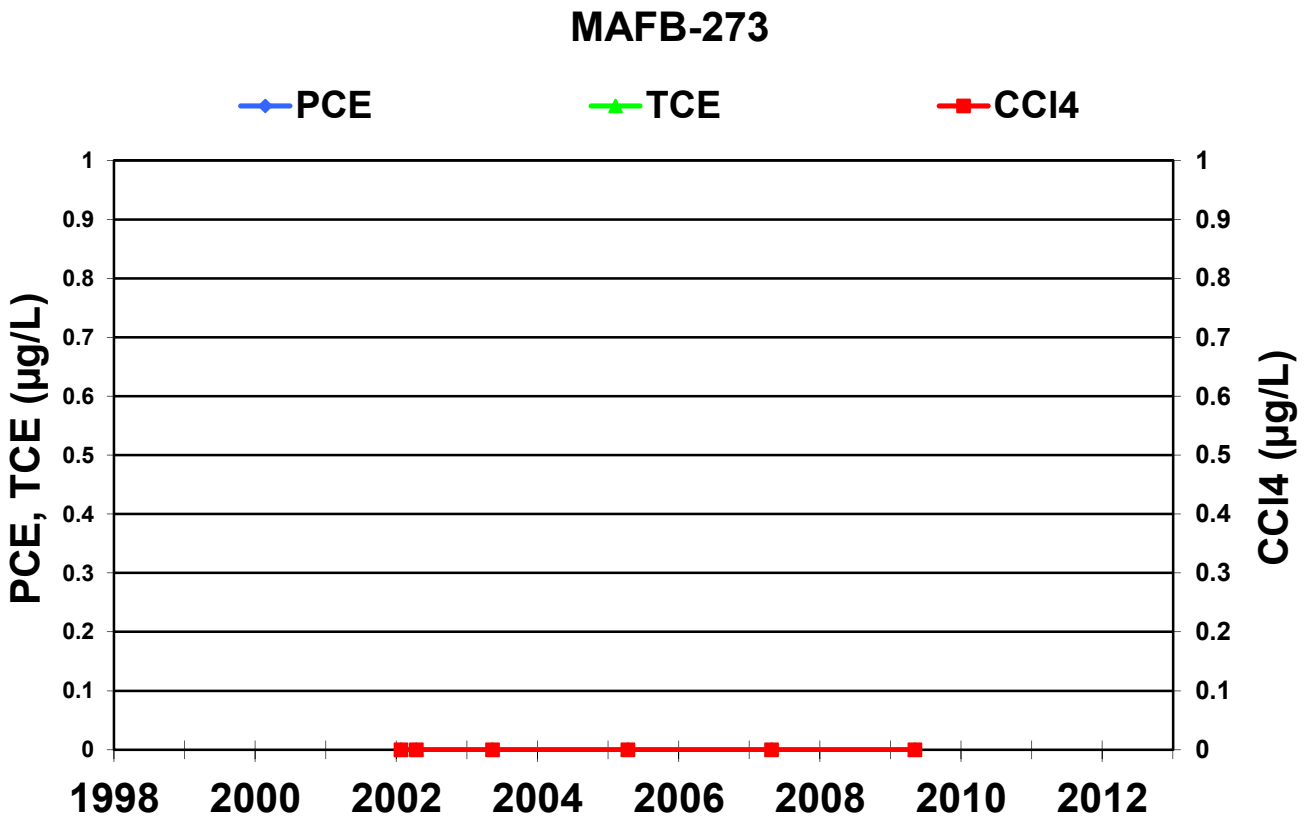

MAFB-268
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
4
3.5
3
2.5
2
1.5
1
0.5
0
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

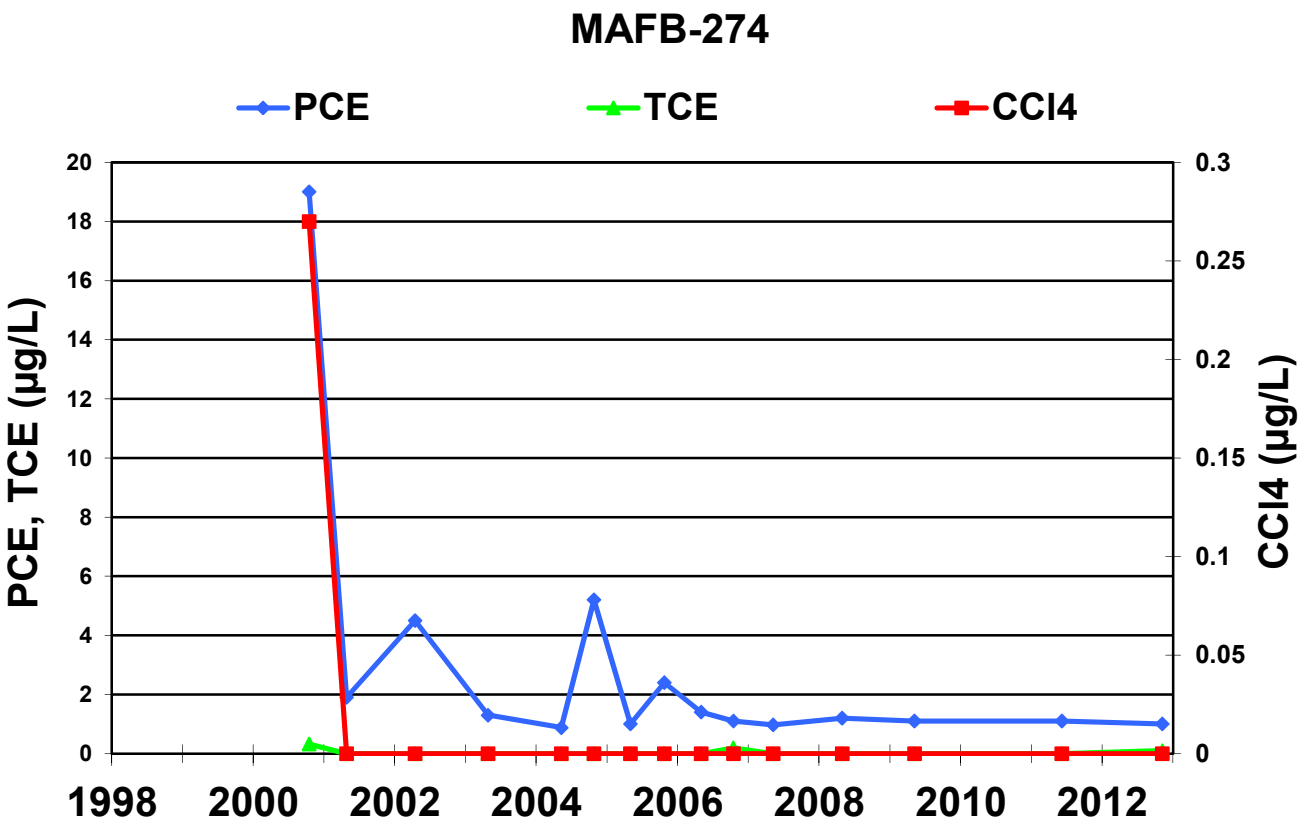

MAFB-269
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
2.5
2
1.5
1
0.5
0
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

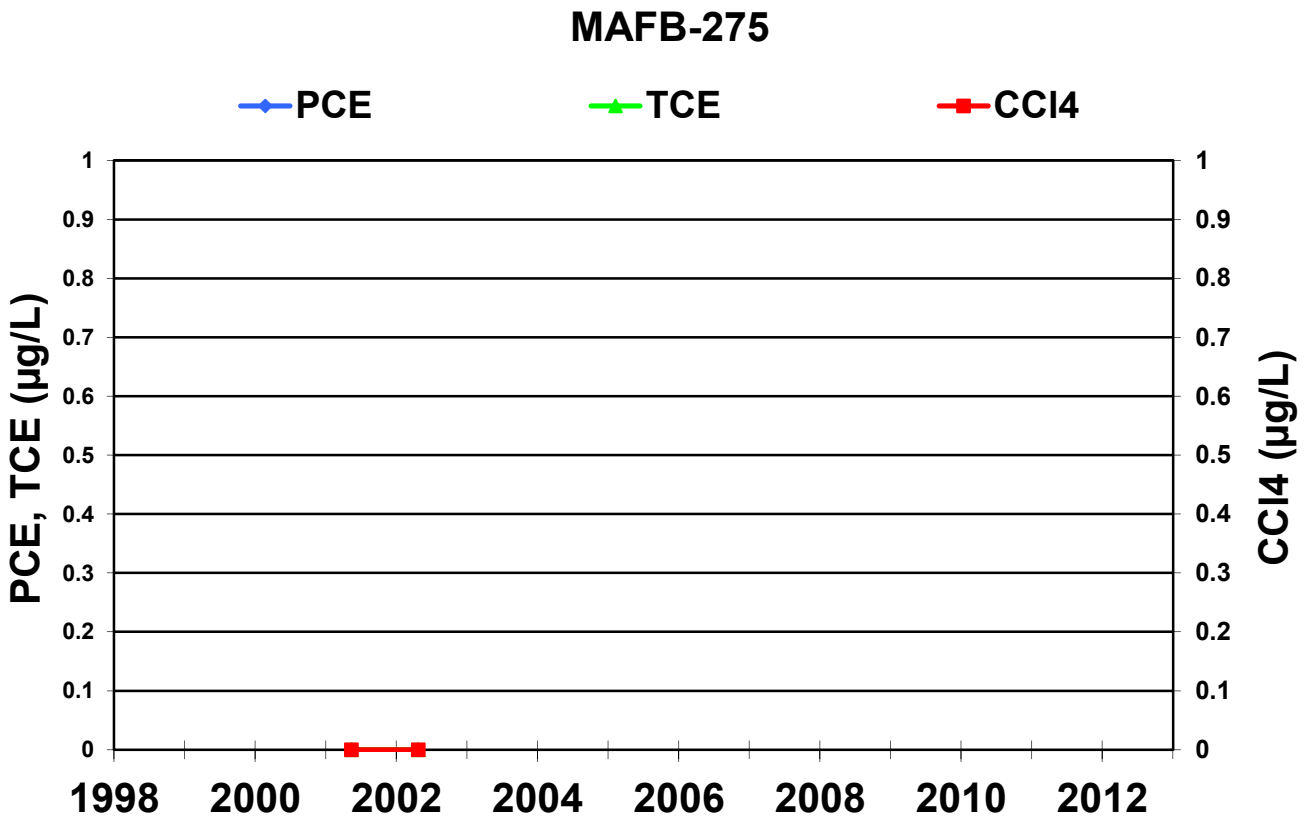

MAFB-270
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3.5
3
2.5
2
1.5
1
0.5
0
6
5
4
3
2
1
0
1998
2000
2002
2004
2006
2008
2010
2012

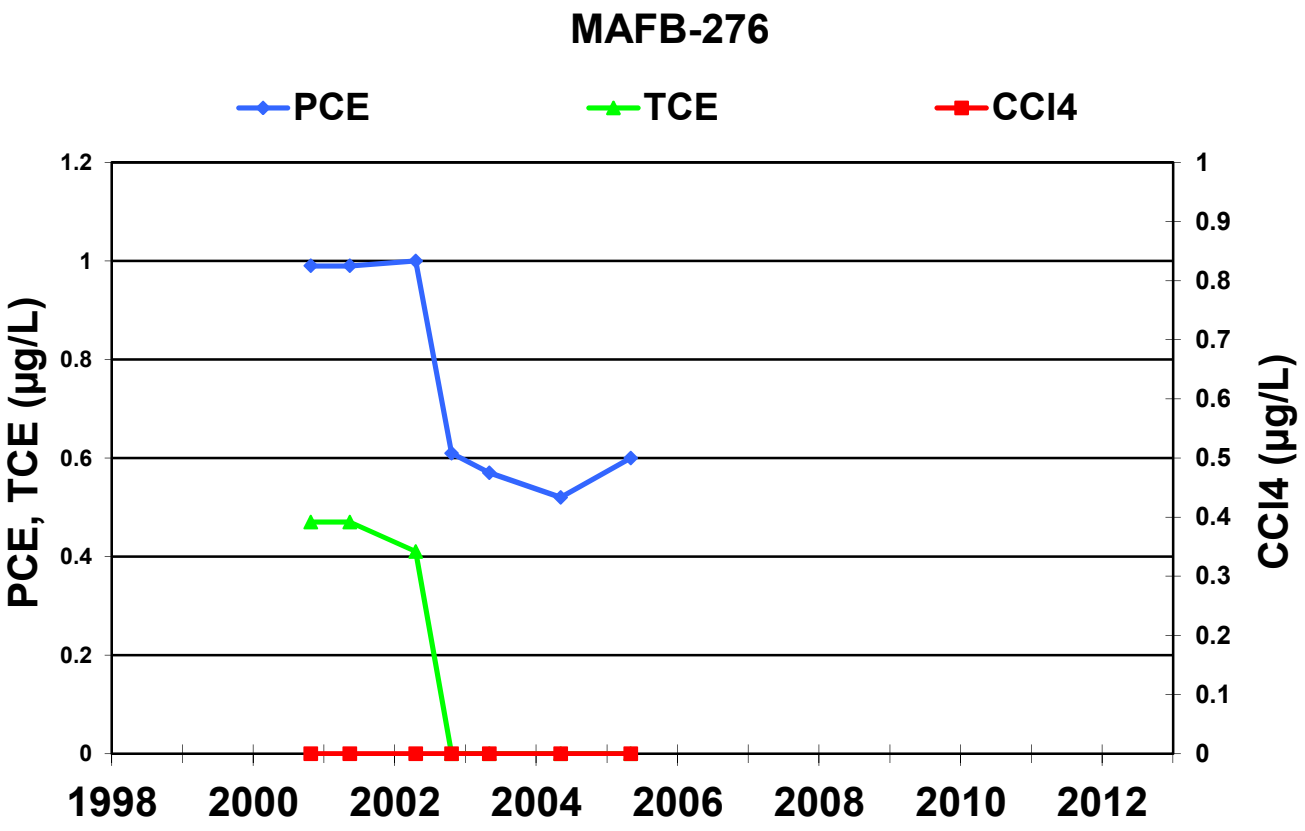

MAFB-271
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

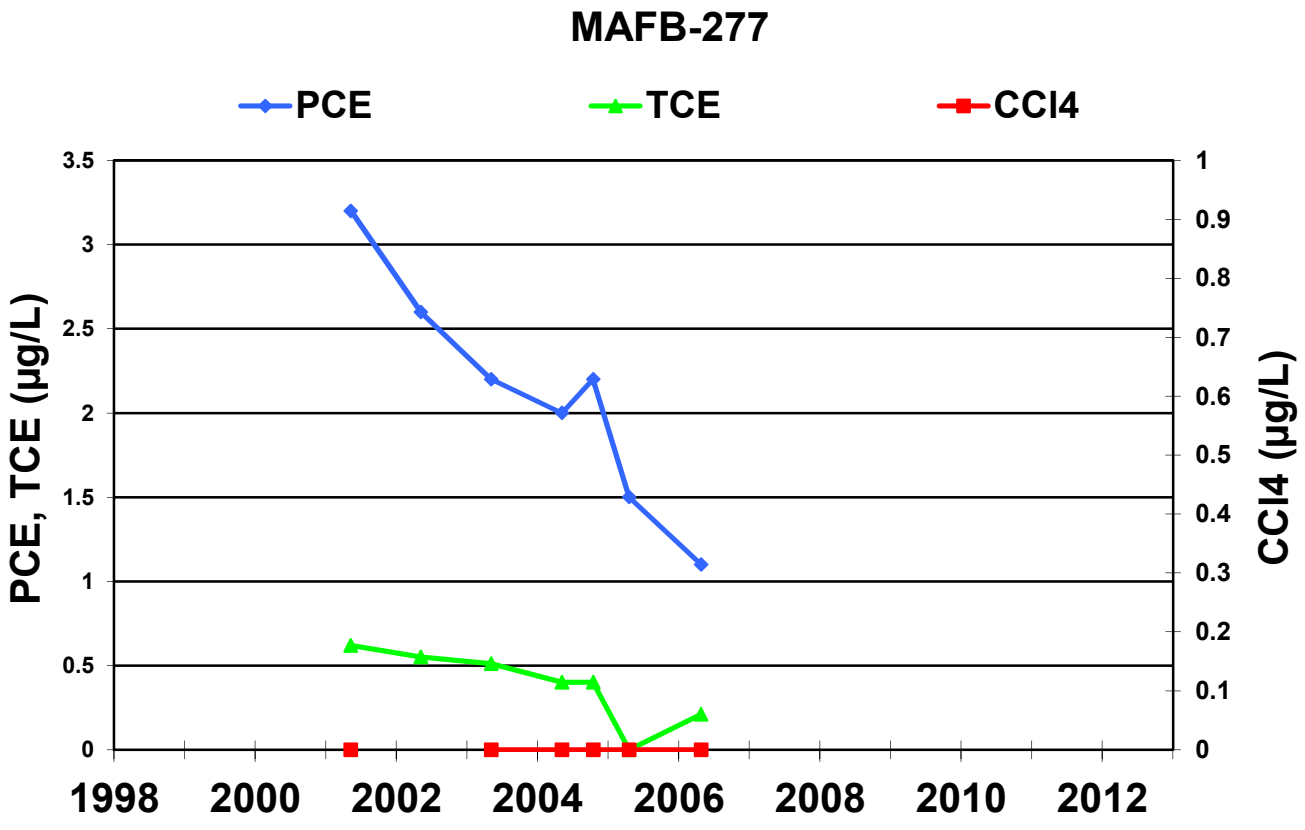

MAFB-272
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

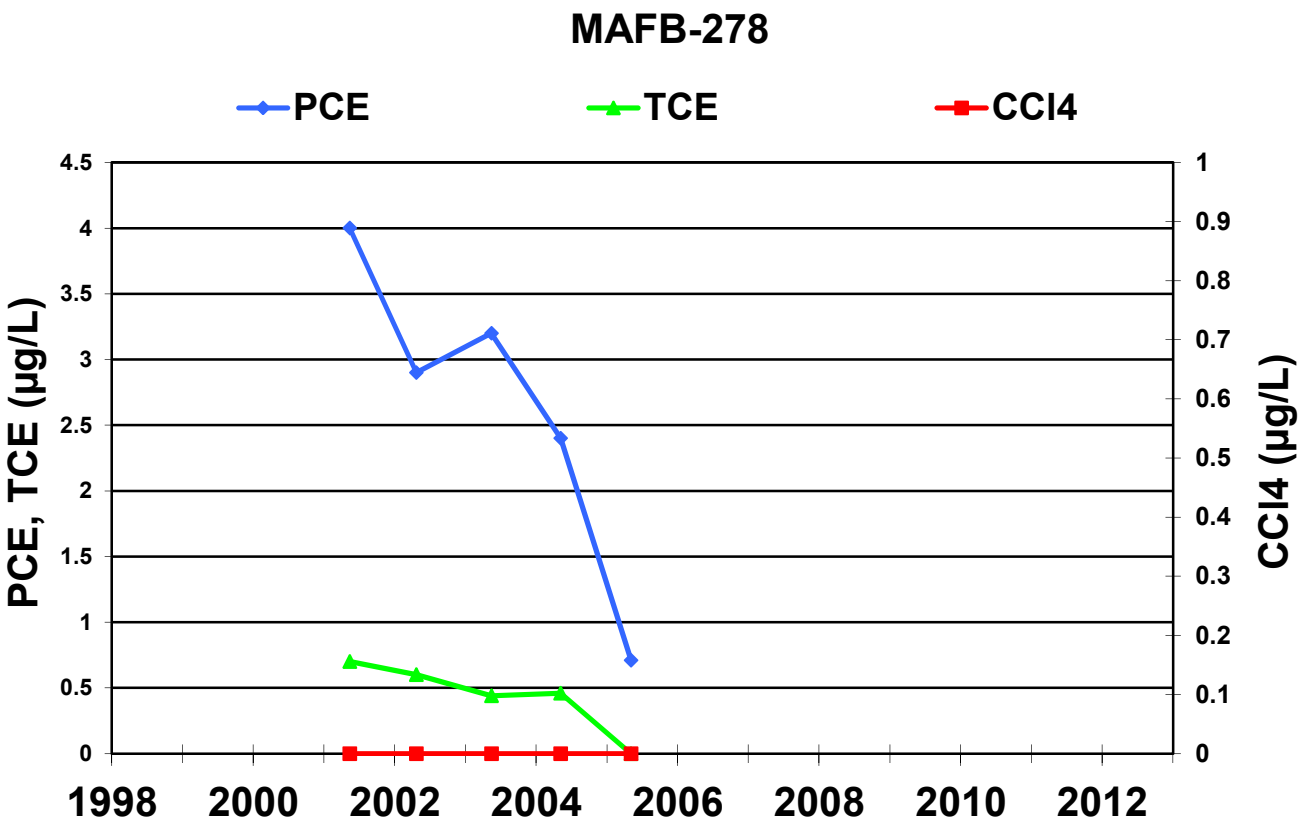

MAFB-273
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

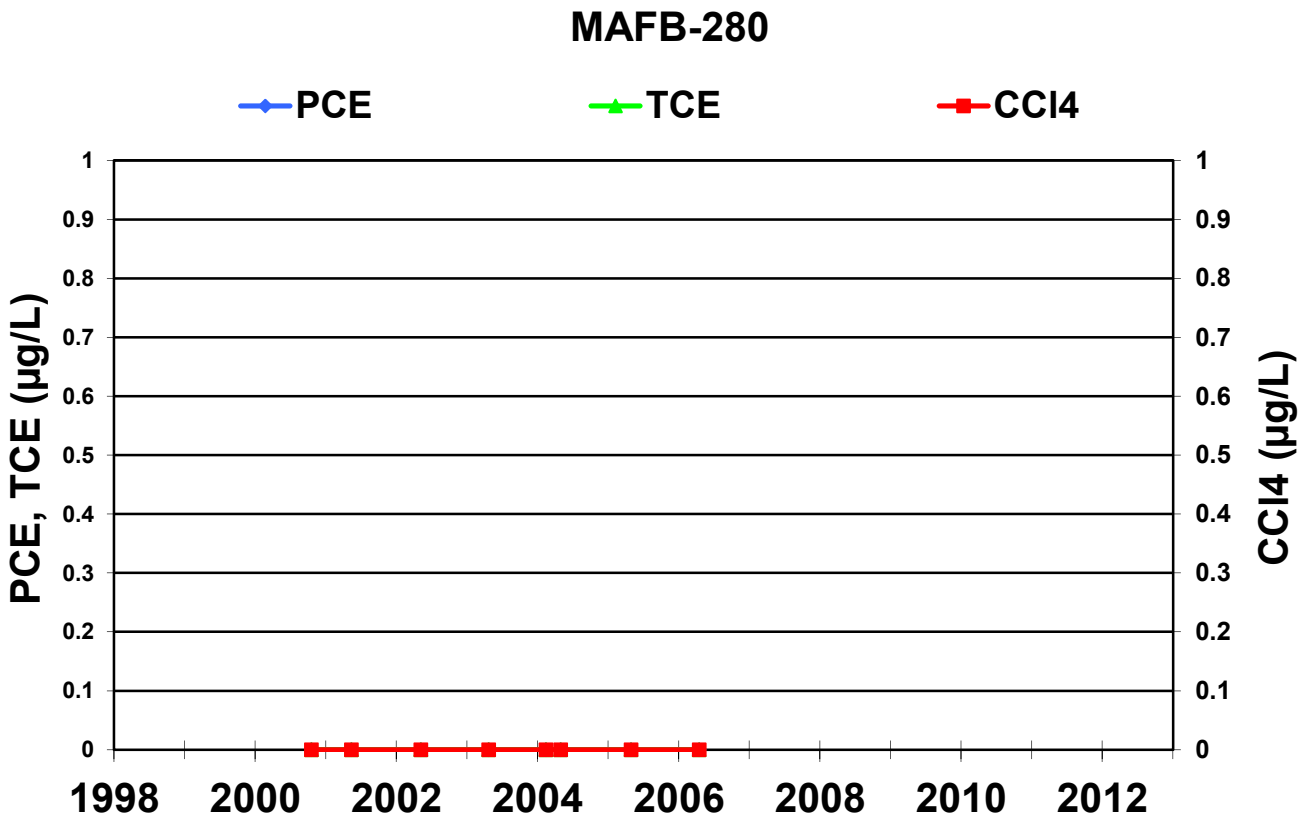

MAFB-274
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
20
18
16
14
12
10
8
6
4
2
0
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

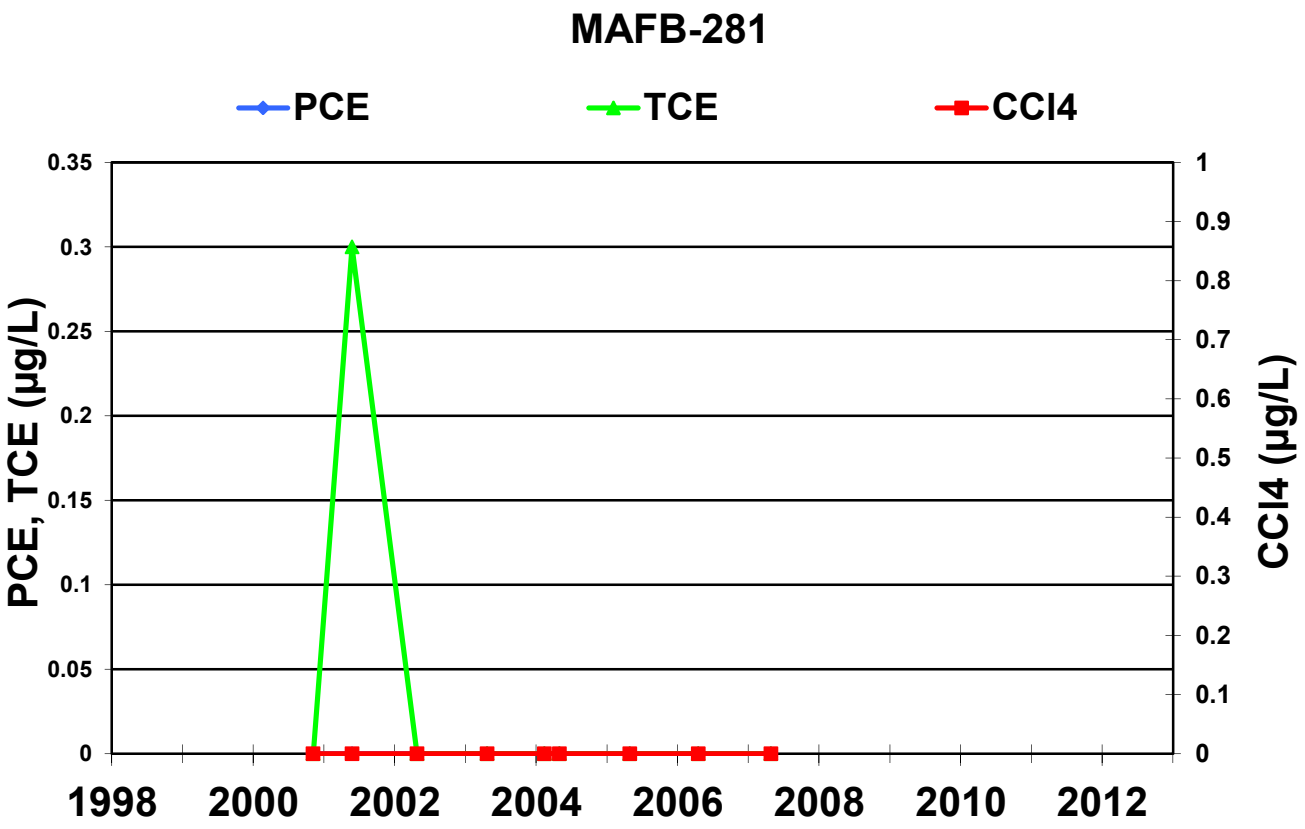

MAFB-275
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

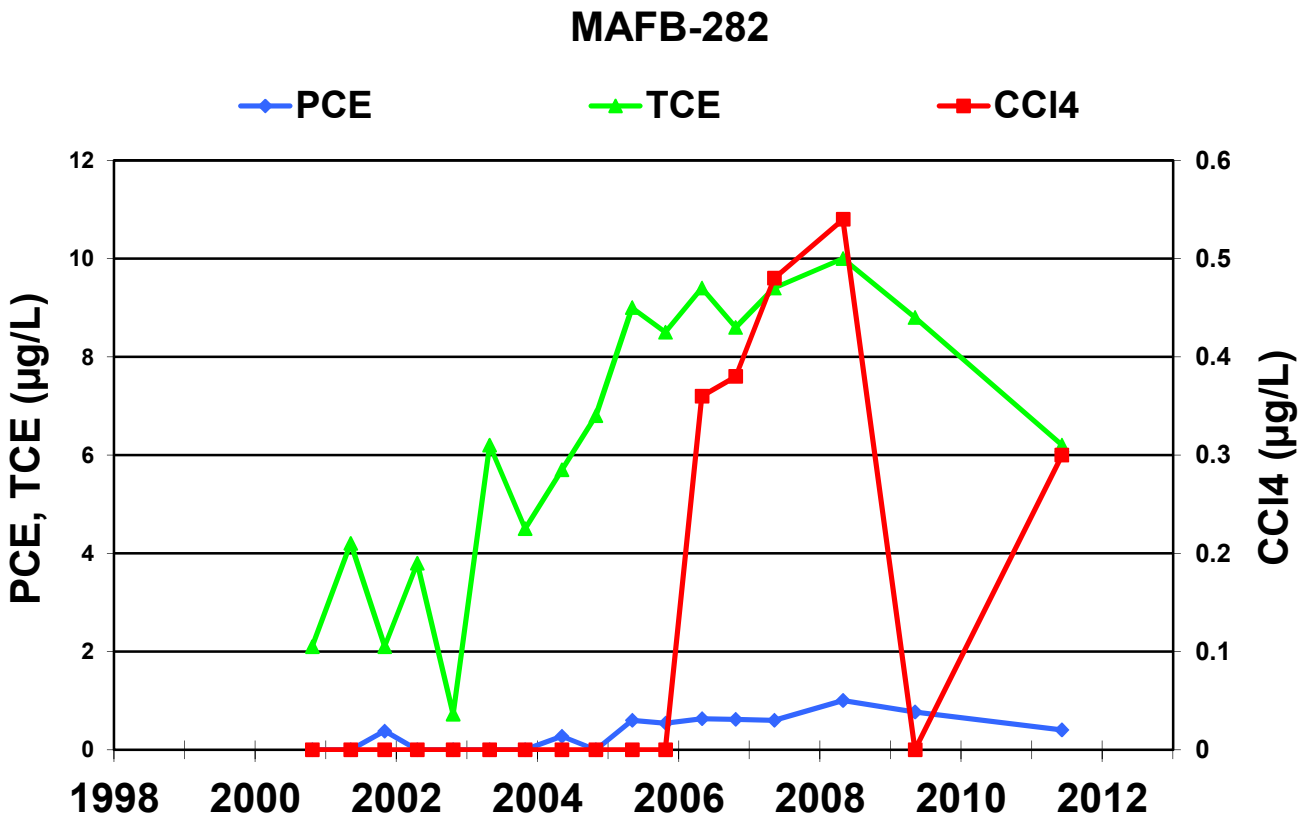

MAFB-276
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

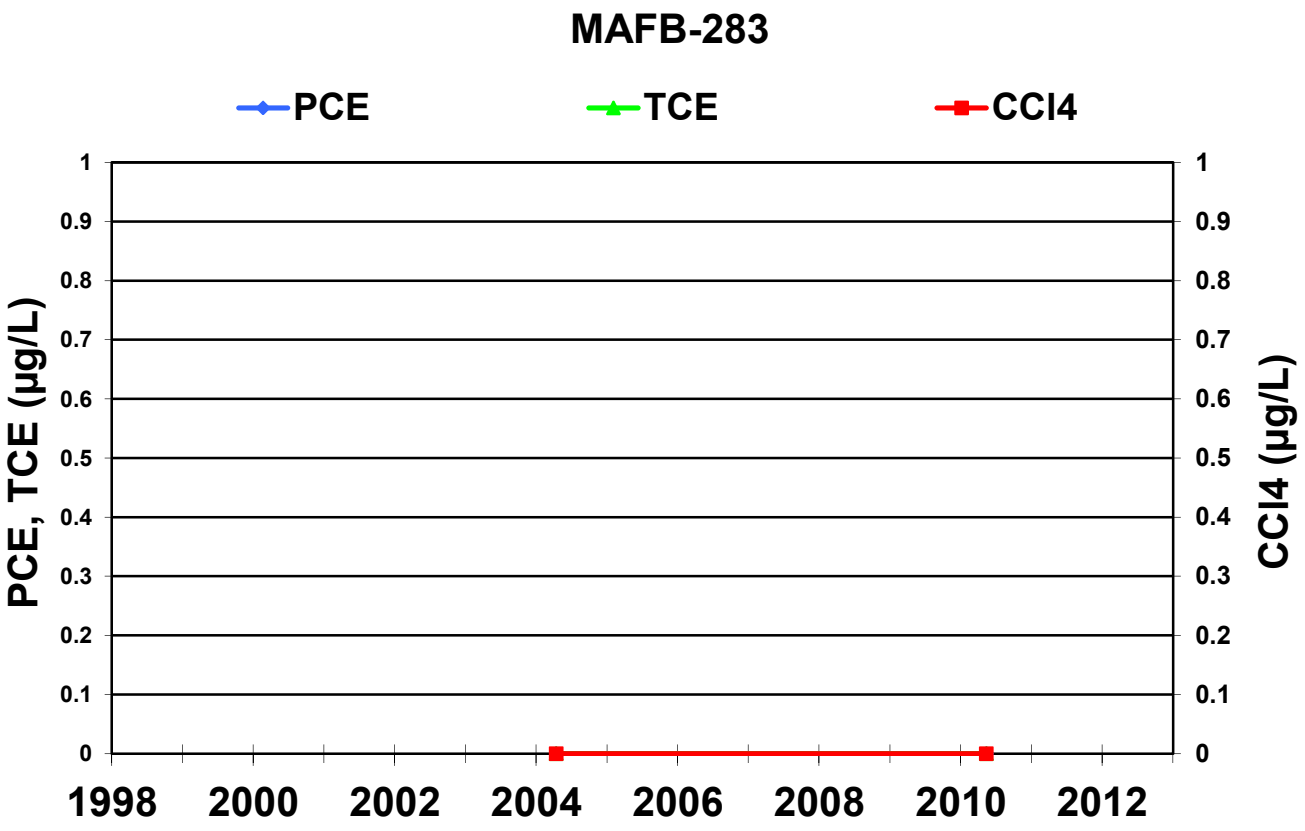

MAFB-277
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

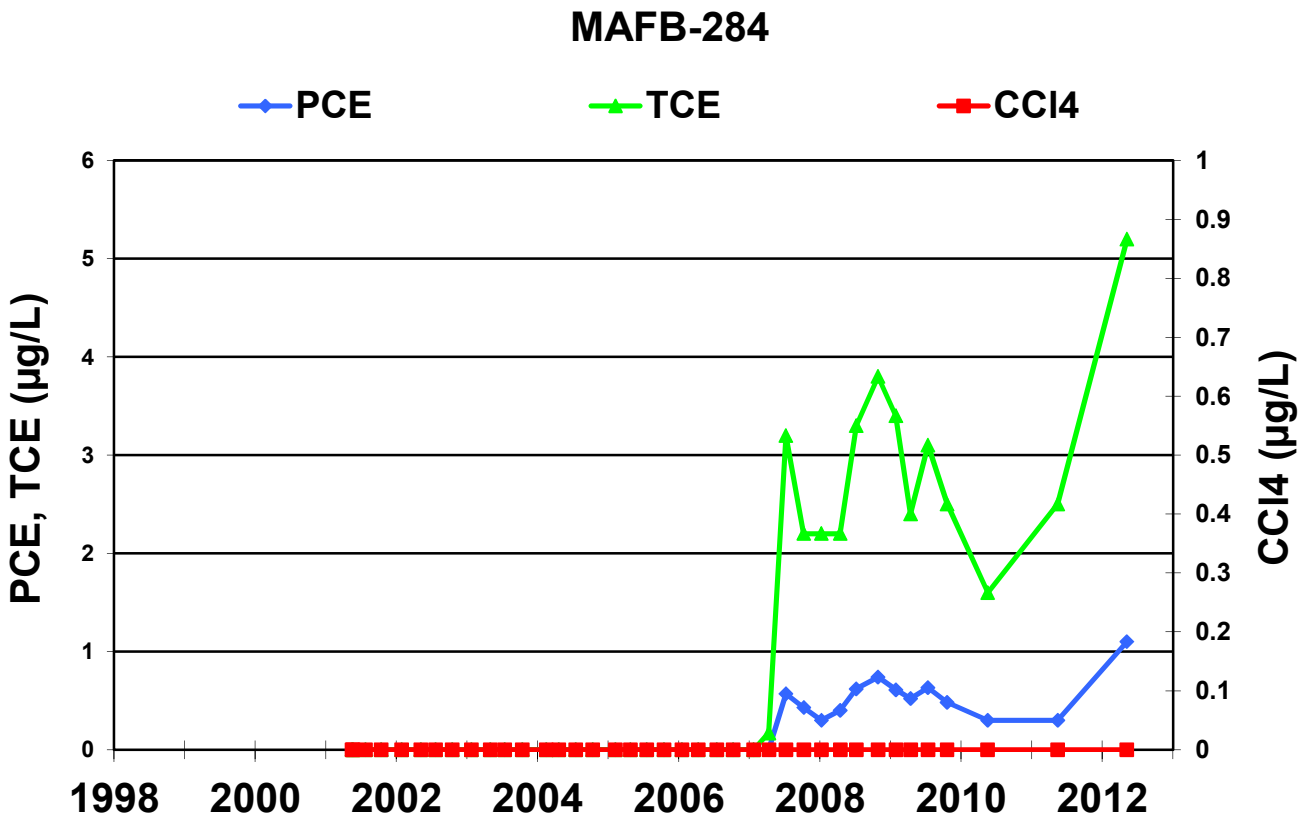

MAFB-278
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

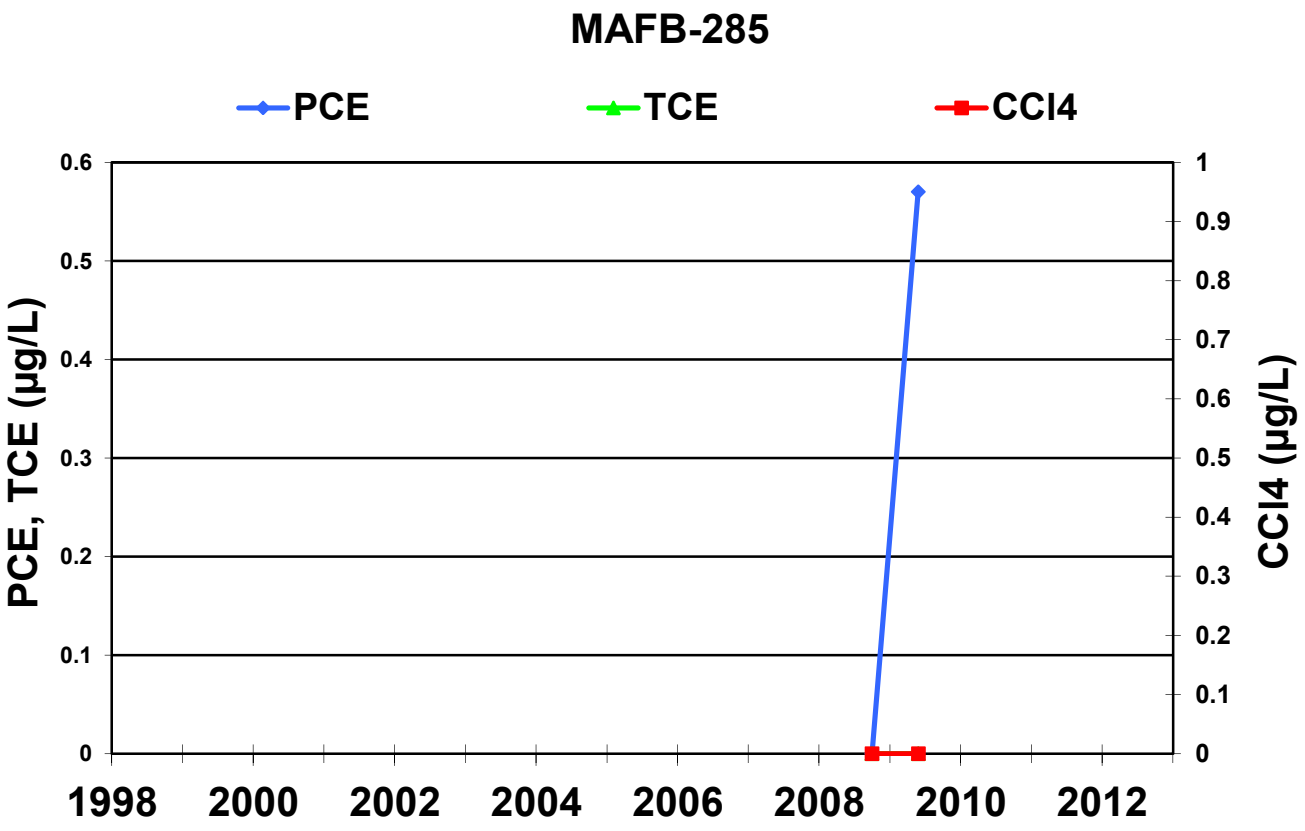

MAFB-280
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

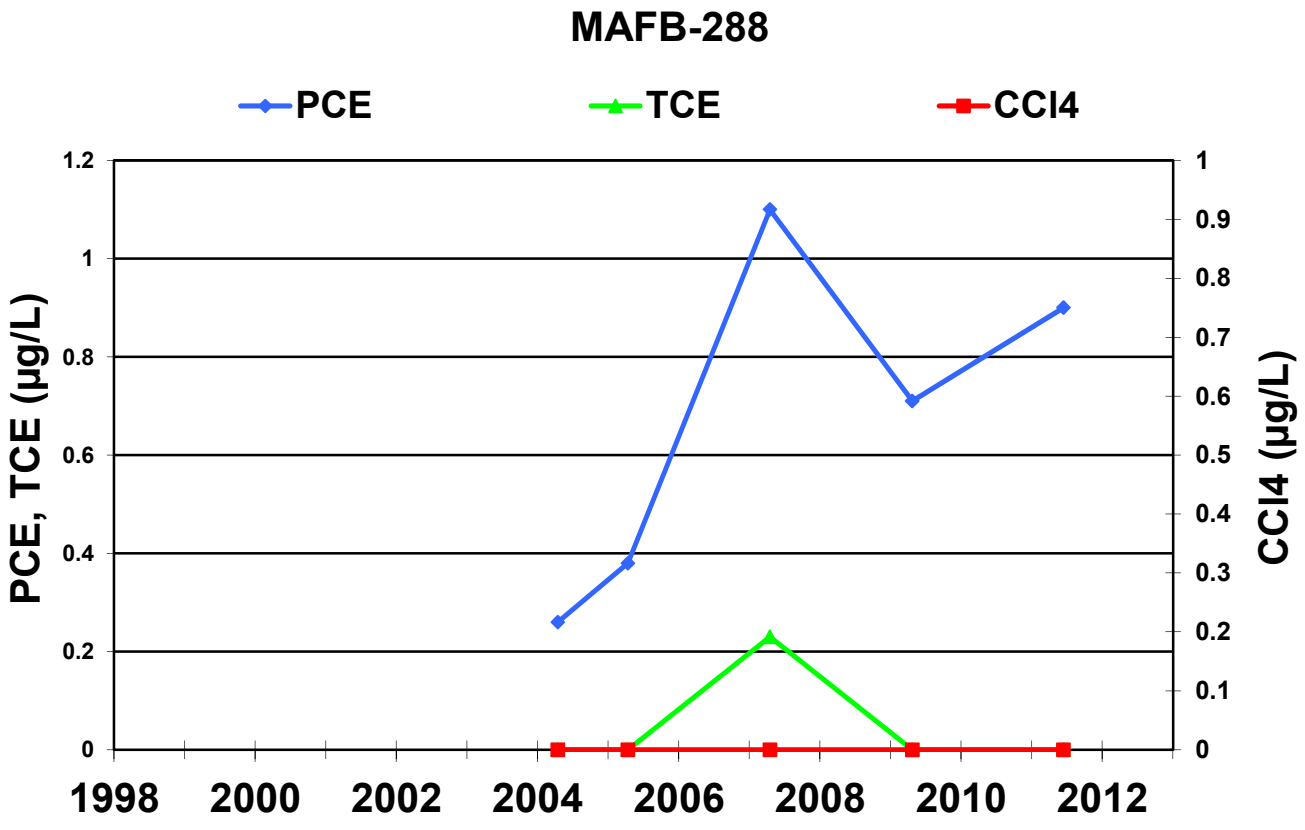

MAFB-281
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

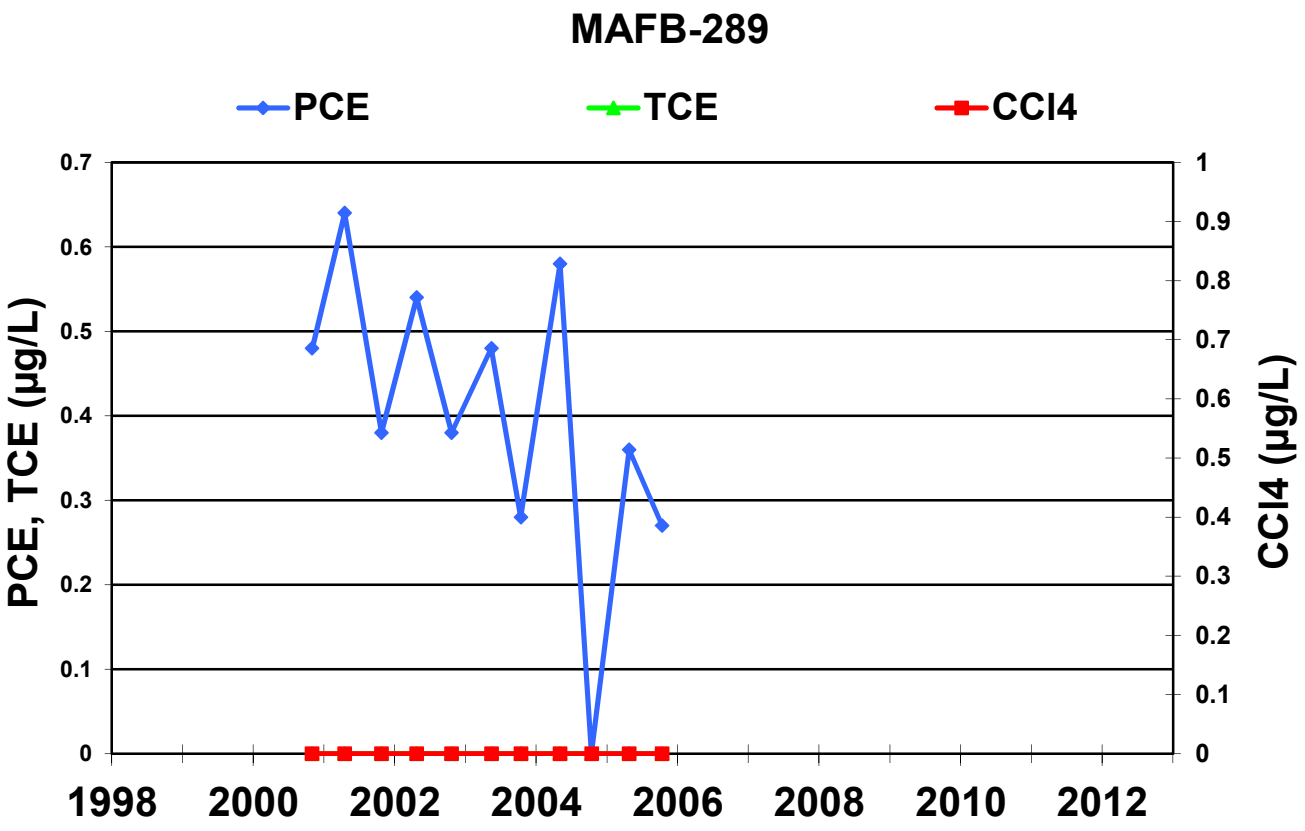

MAFB-282
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
12
10
8
6
4
2
0
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

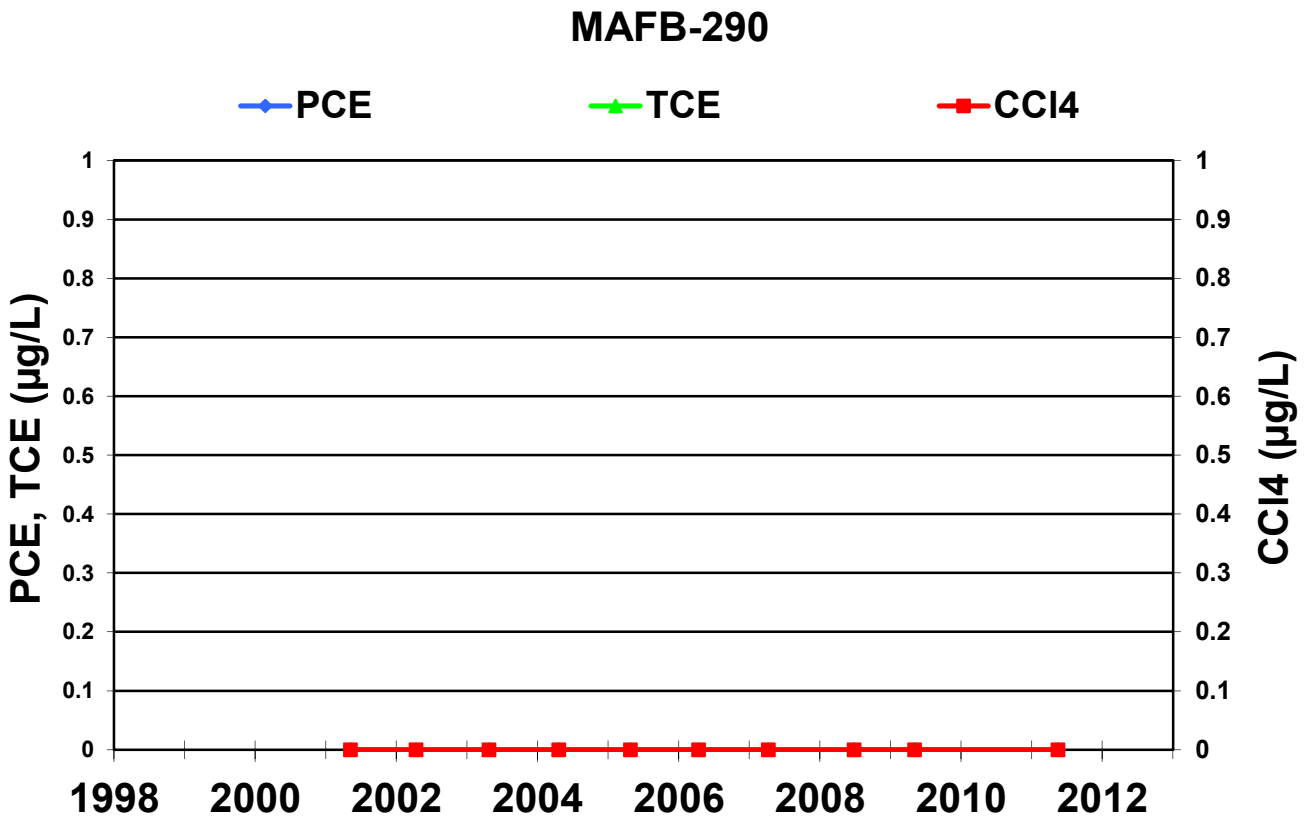

MAFB-283
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

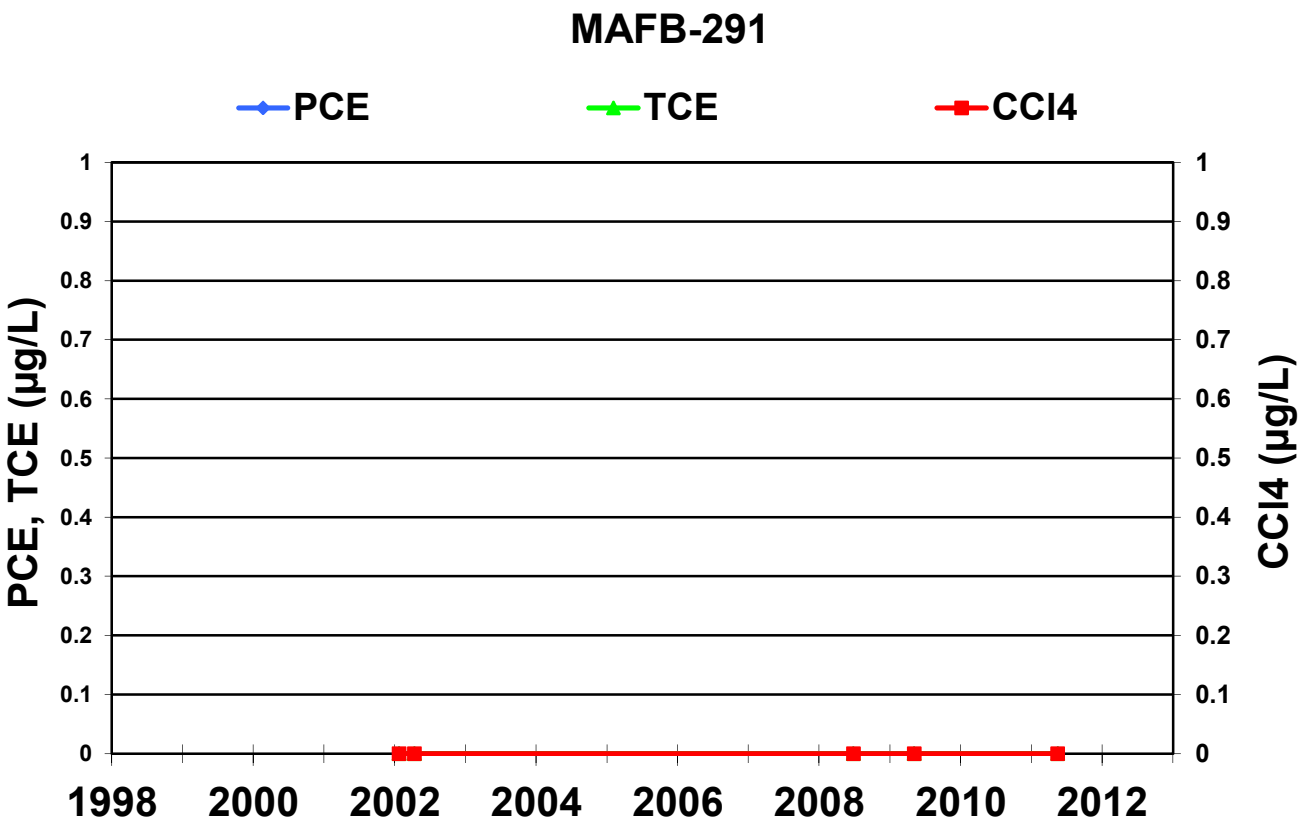

MAFB-284
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
6
5
4
3
2
1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

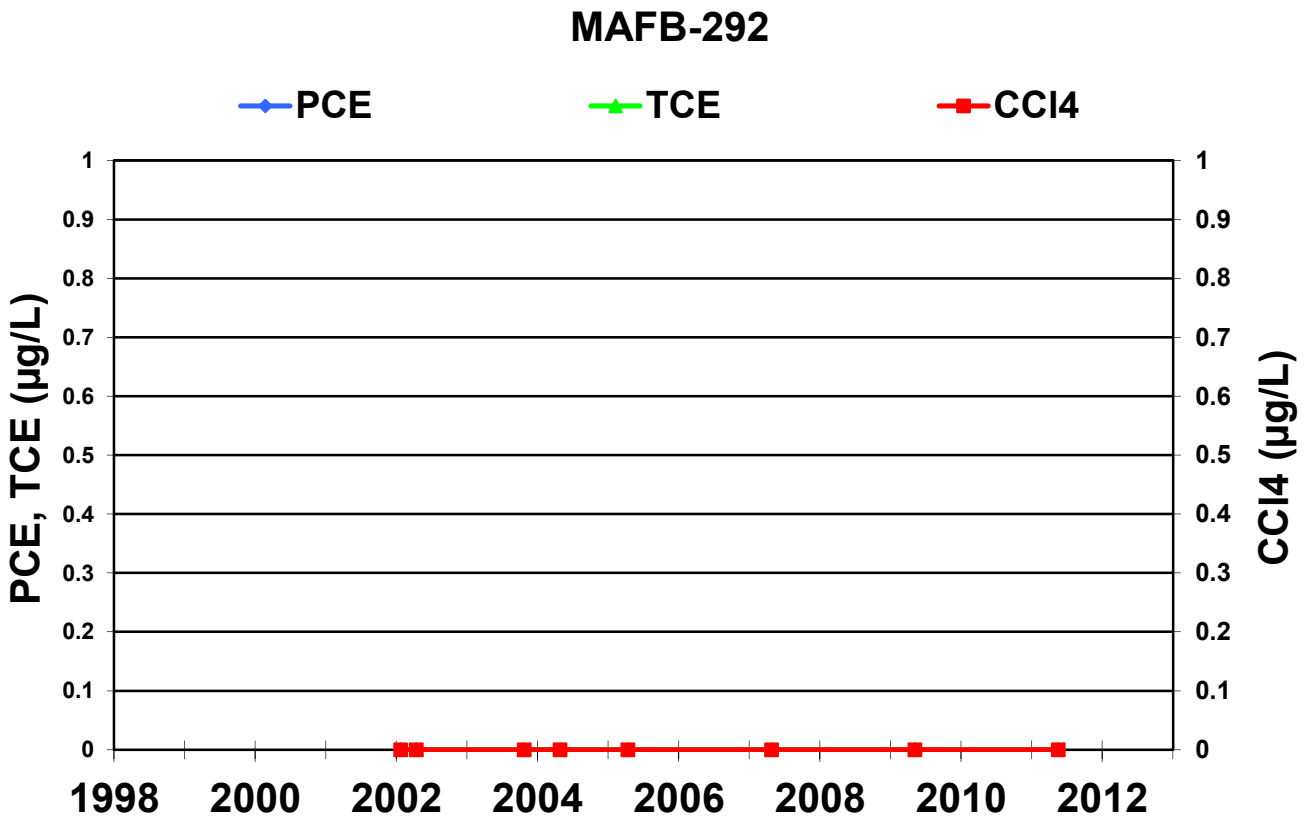

MAFB-285
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

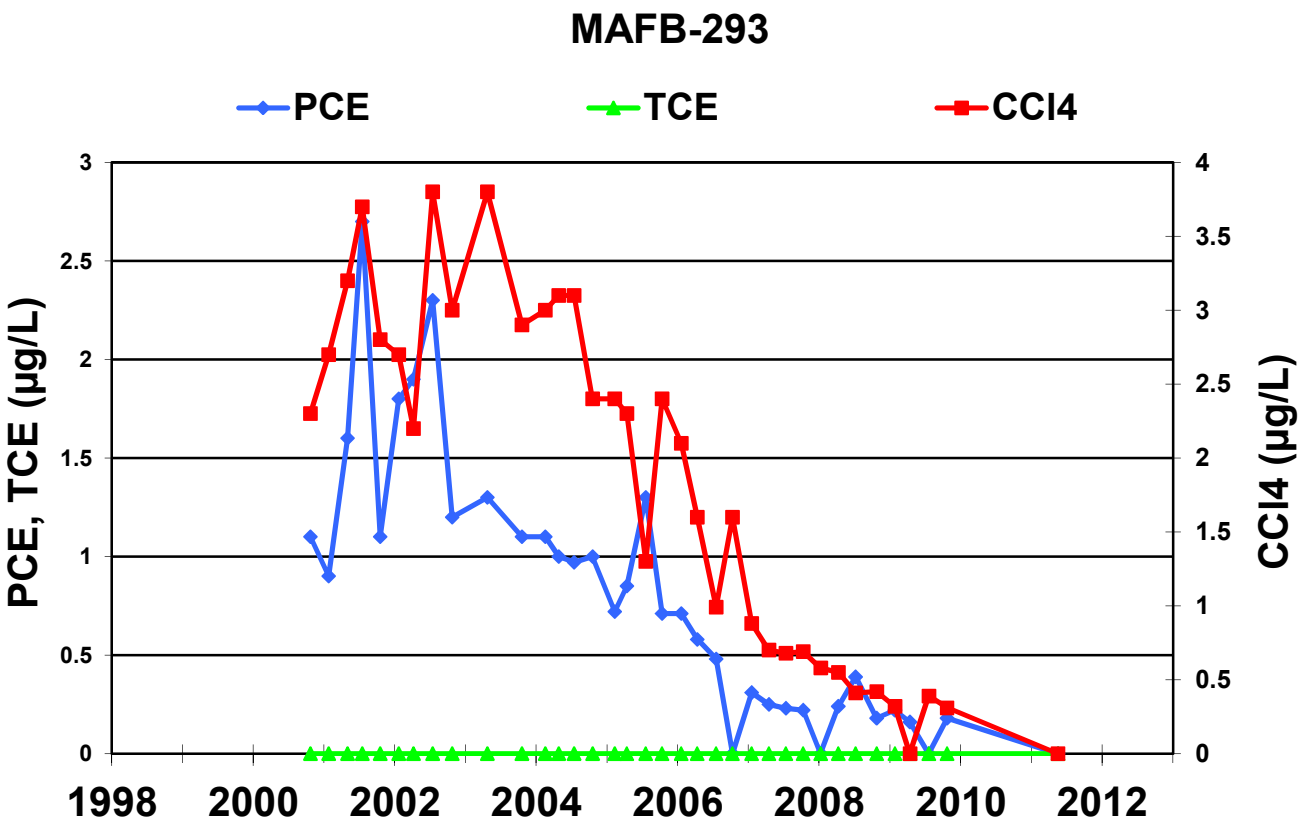

MAFB-288
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

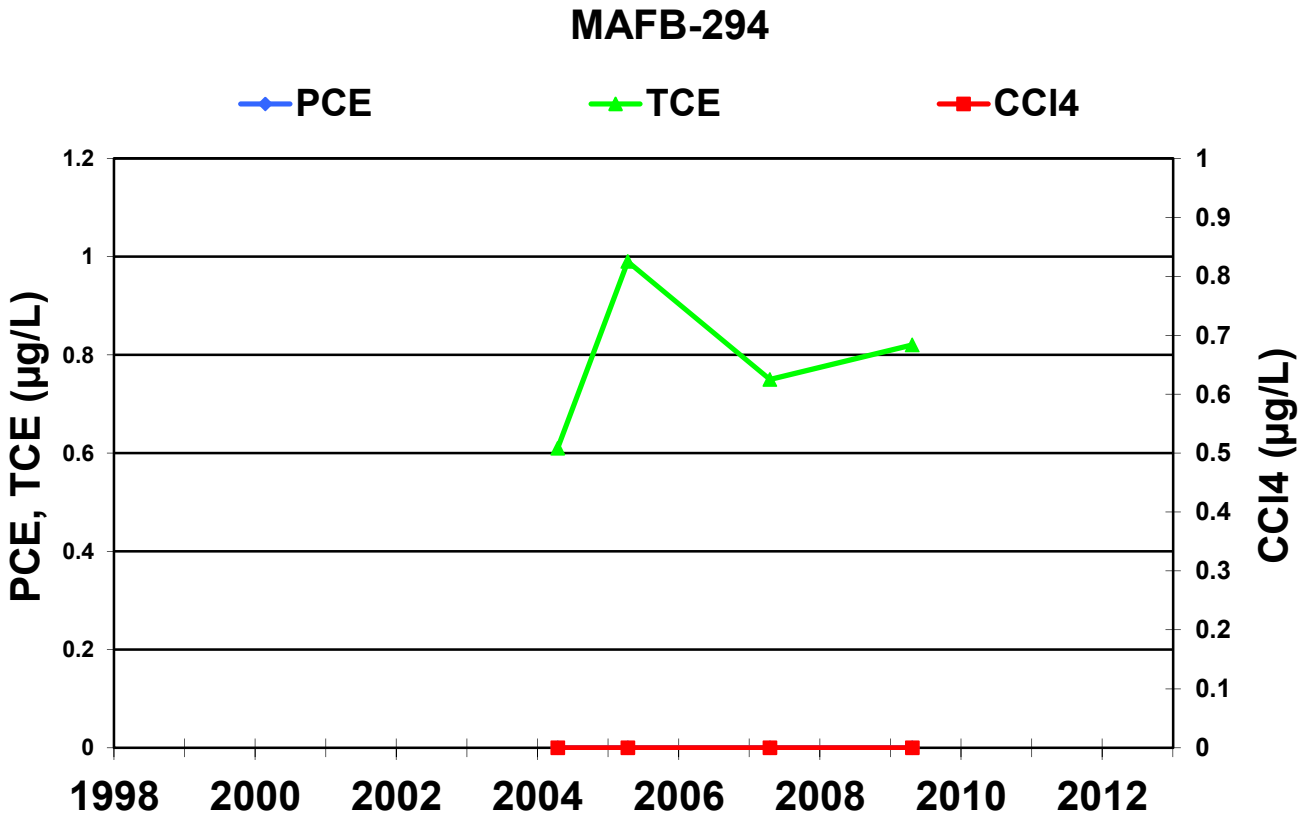

MAFB-289
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

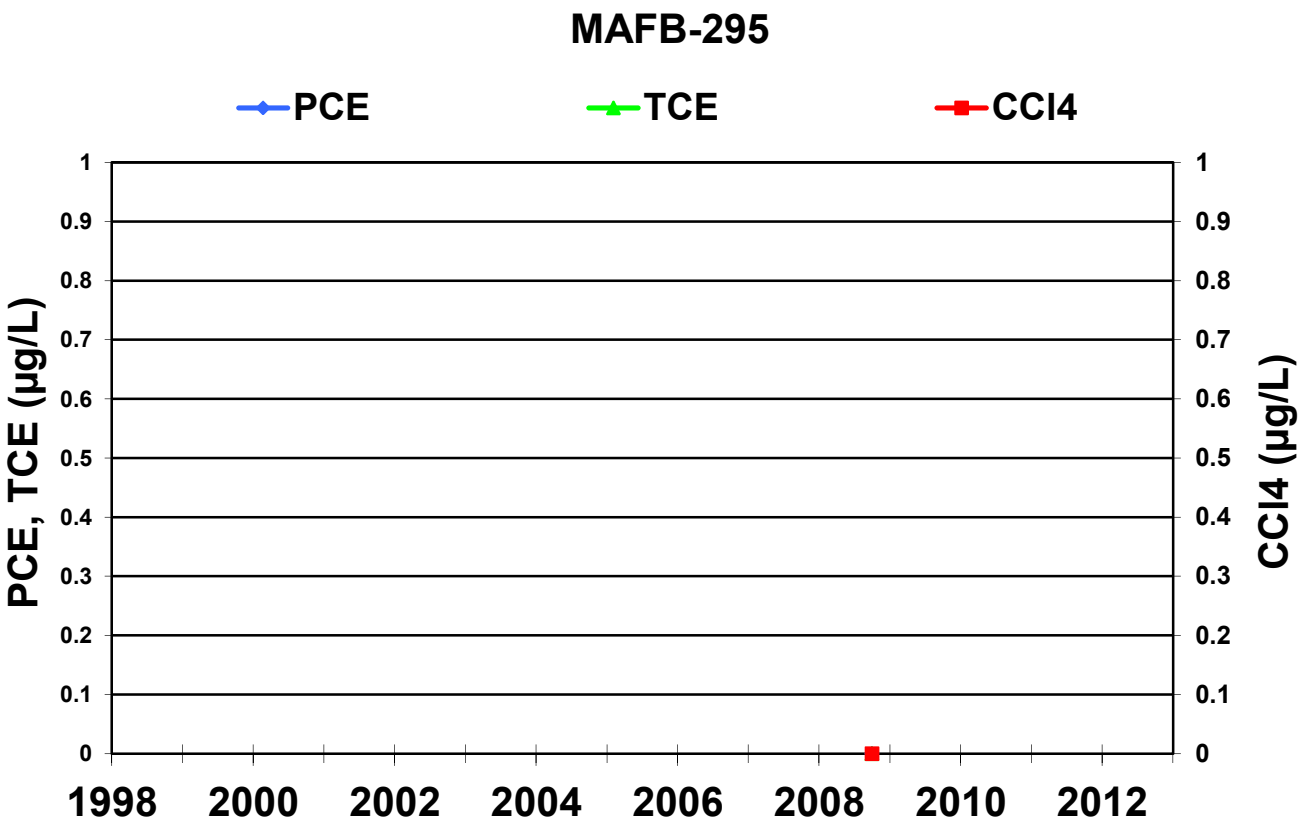

MAFB-290
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

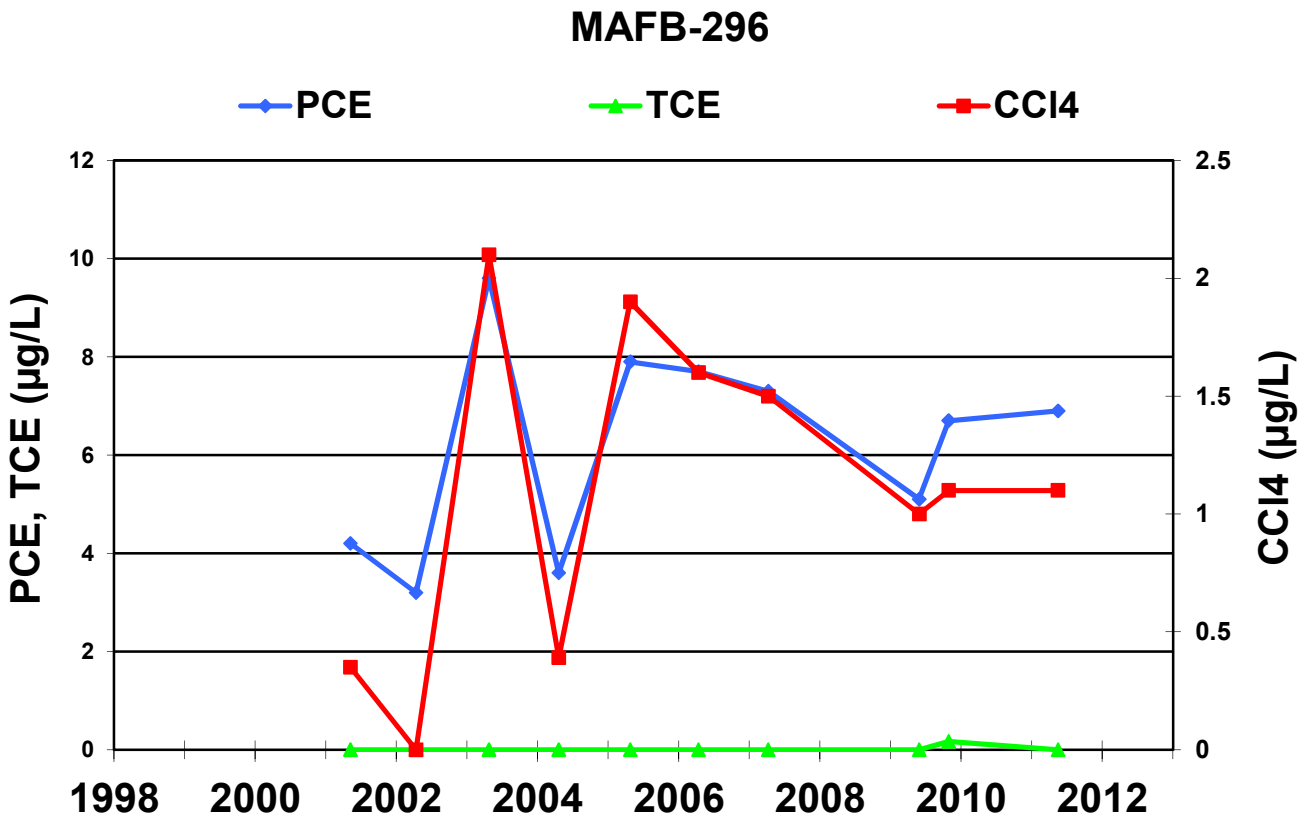

MAFB-291
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

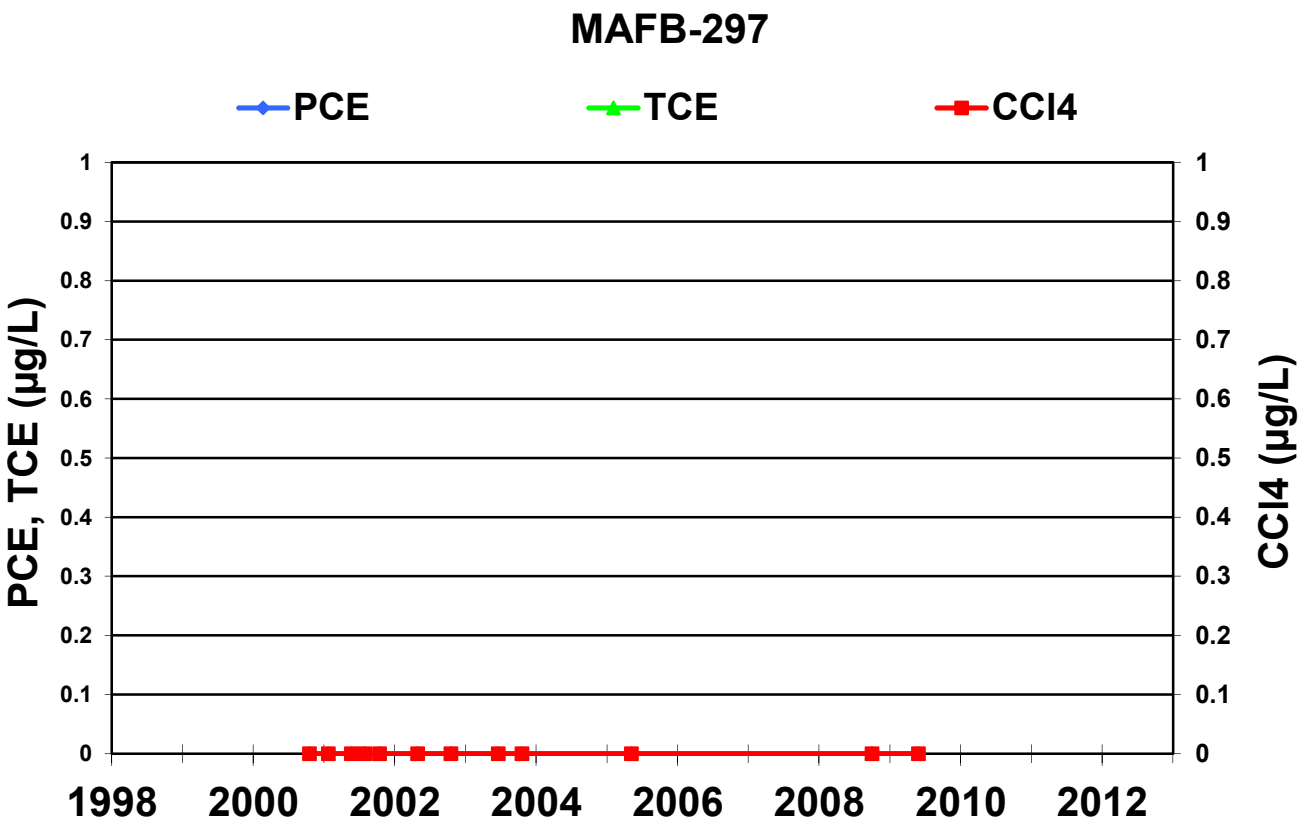

MAFB-292
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

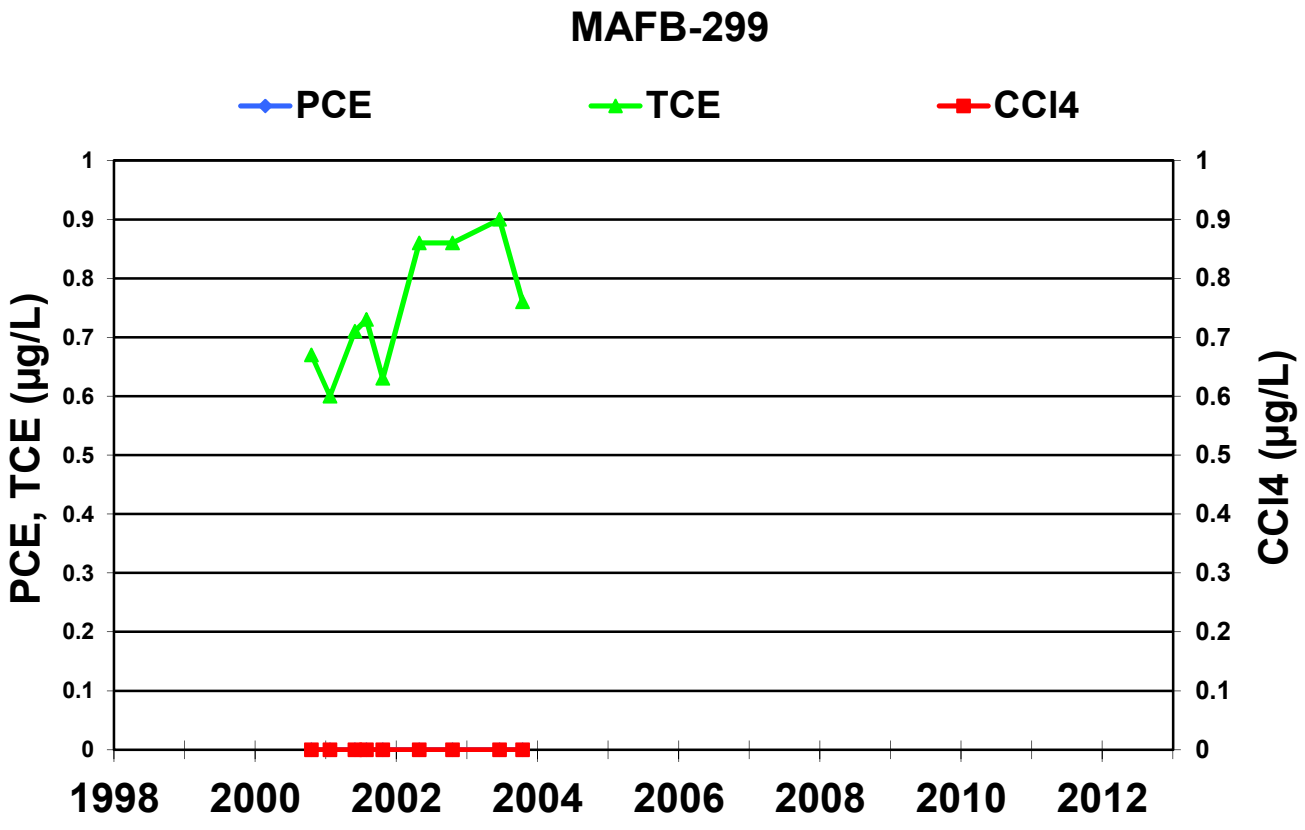

MAFB-293
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3
2.5
2
1.5
1
0.5
0
4
3.5
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

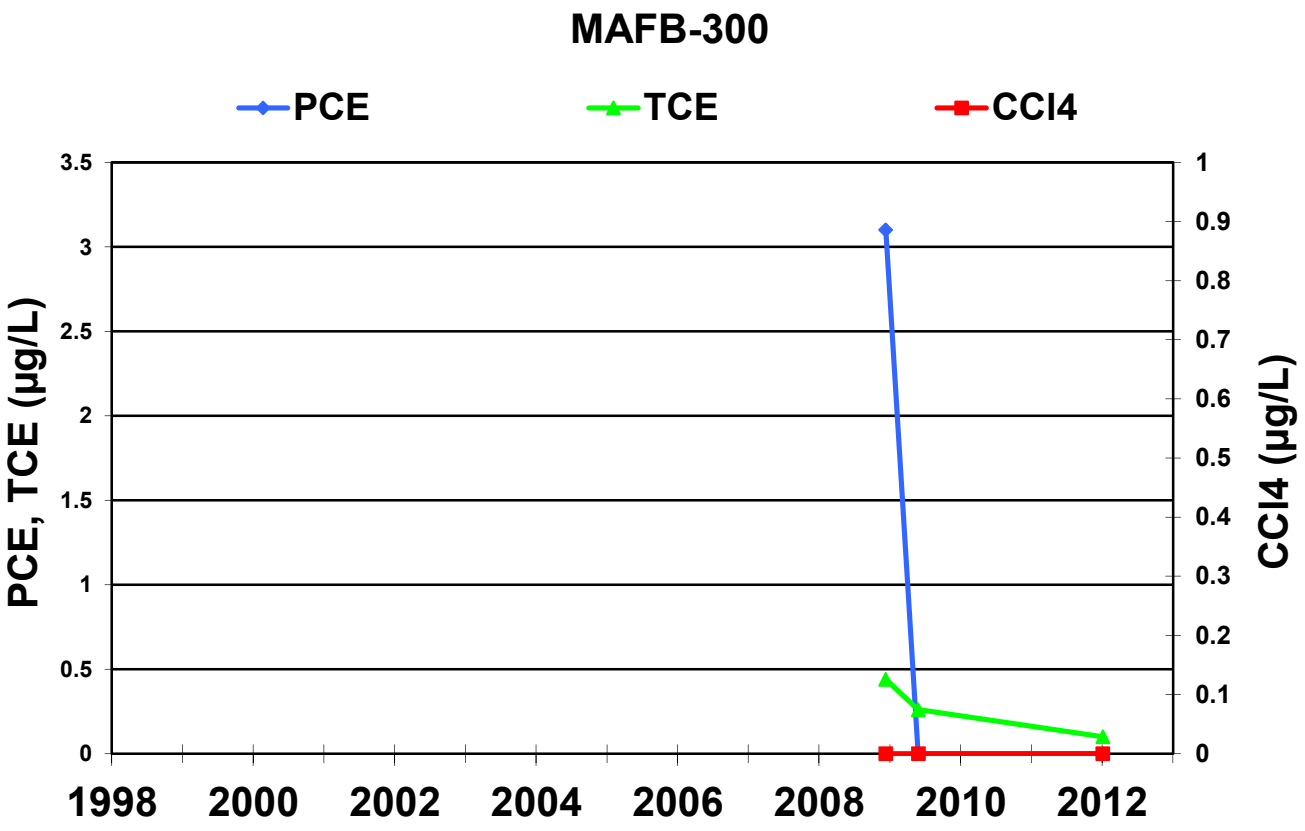

MAFB-294
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

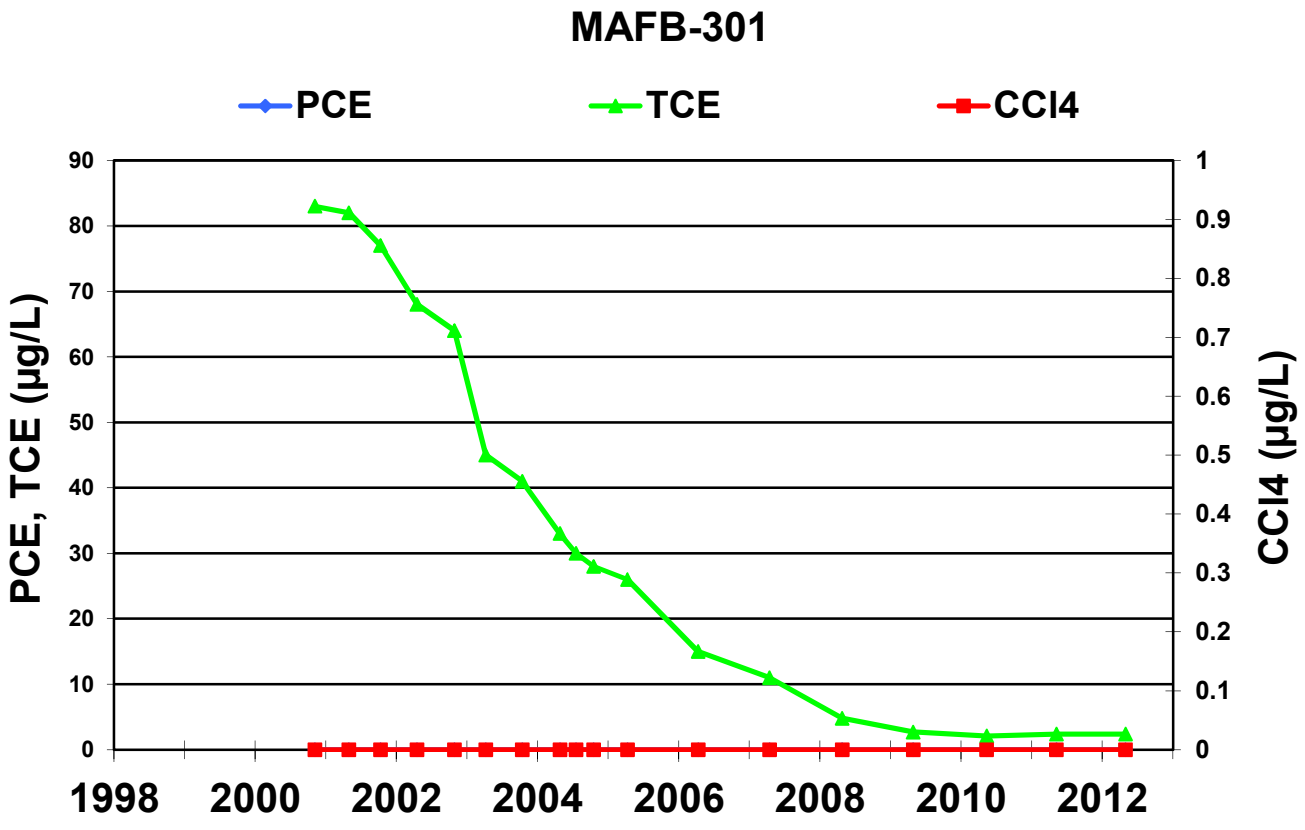

MAFB-295
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

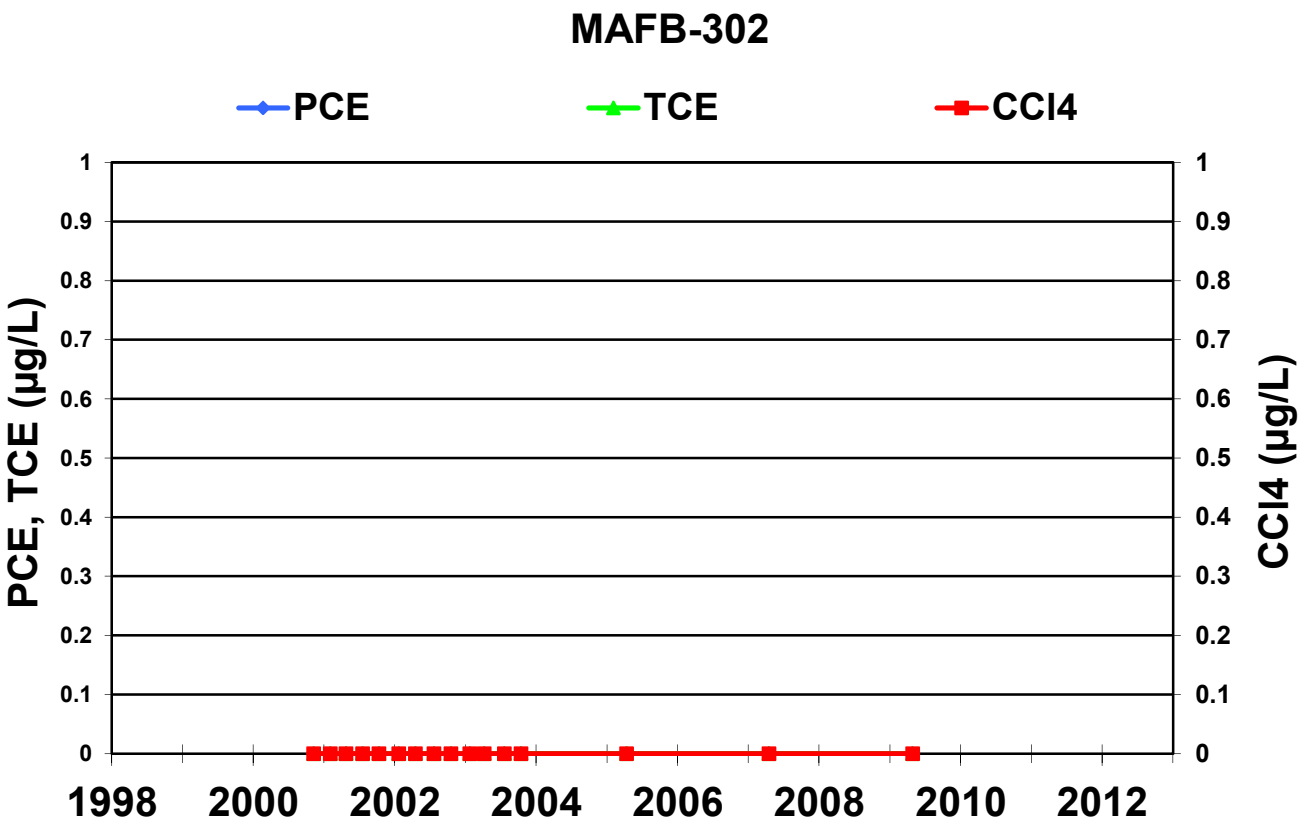

MAFB-296
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
12
10
8
6
4
2
0
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

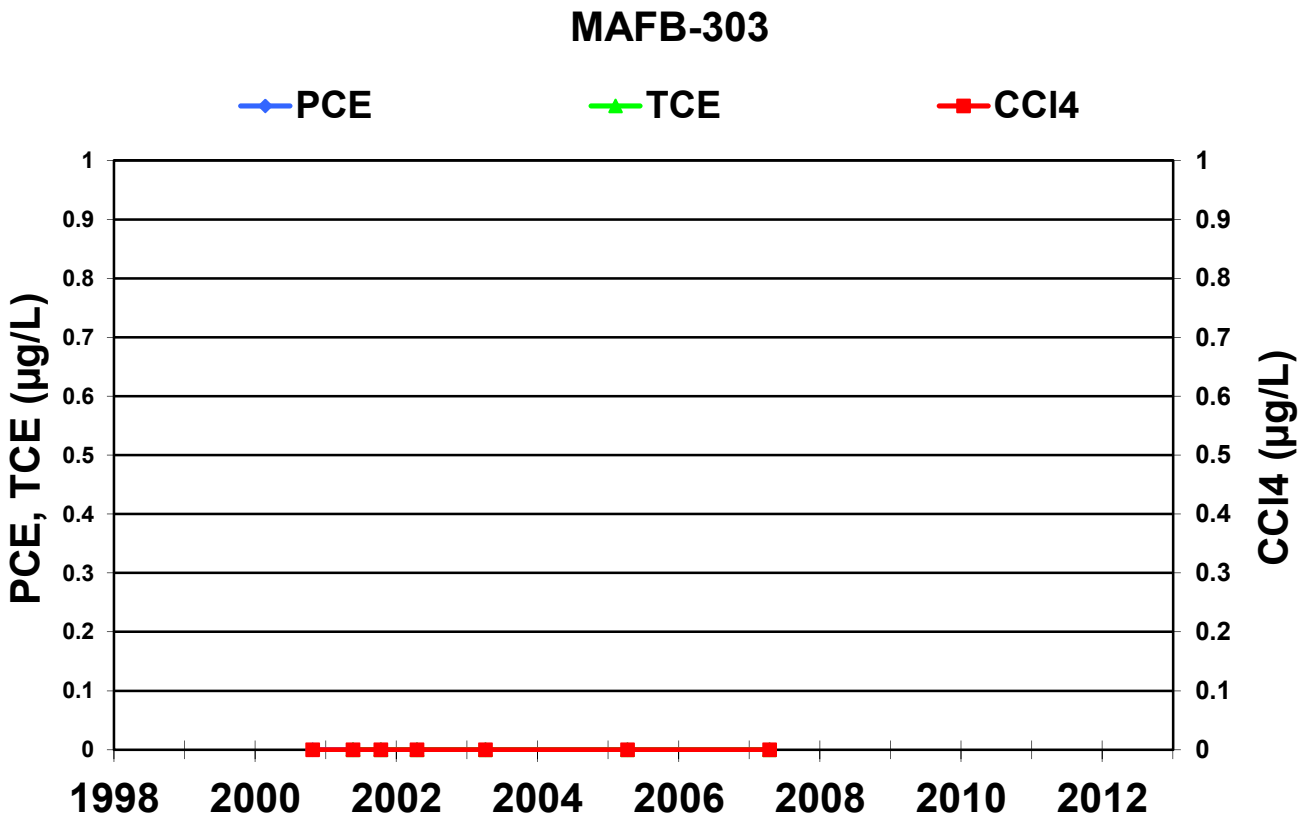

MAFB-297
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

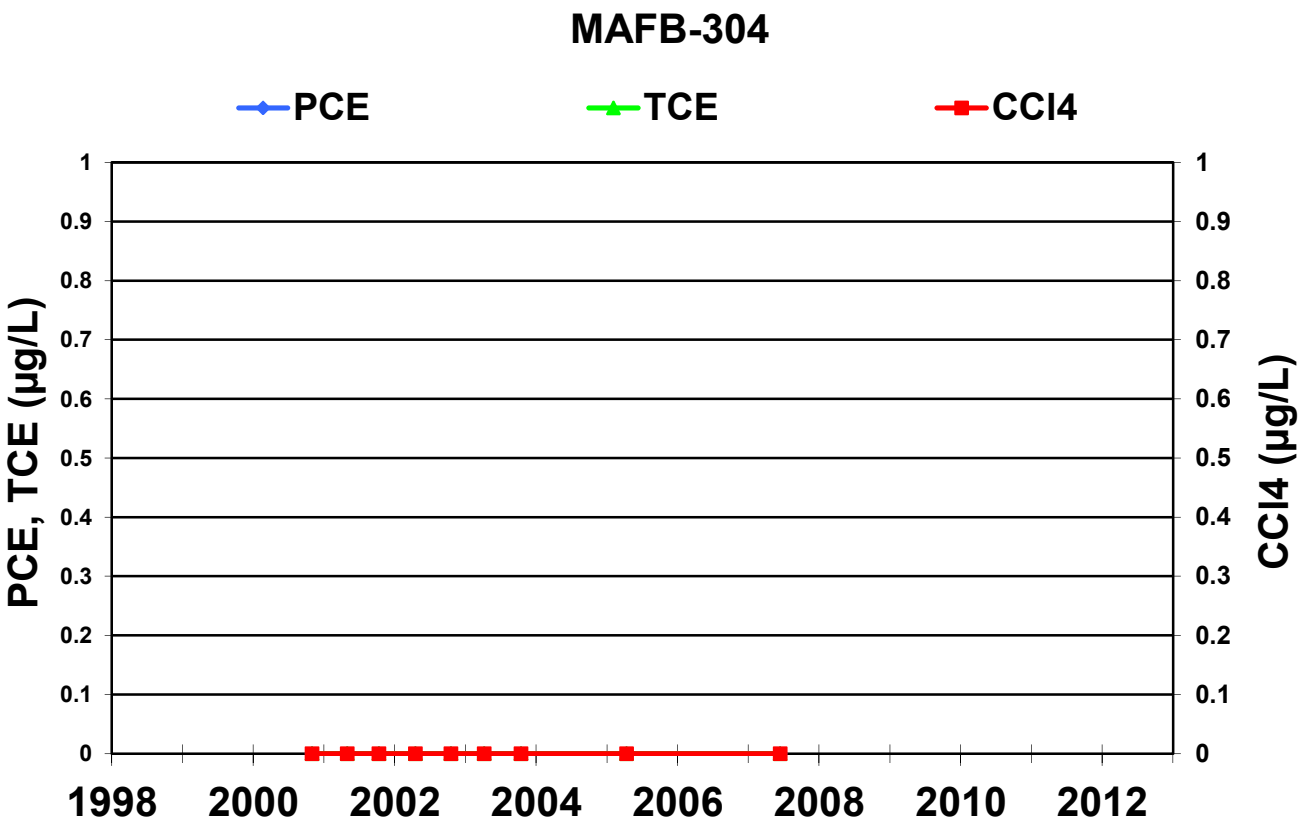

MAFB-299
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

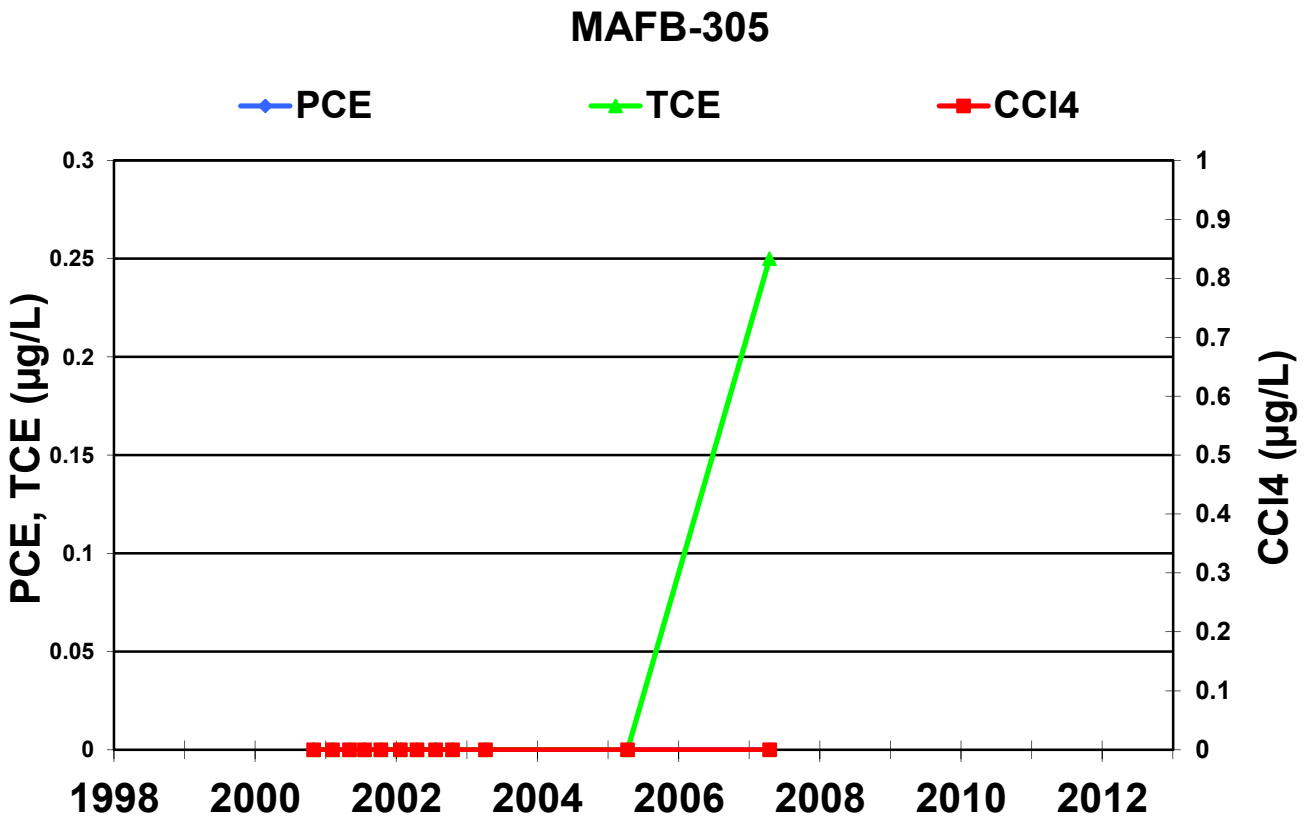

MAFB-300
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

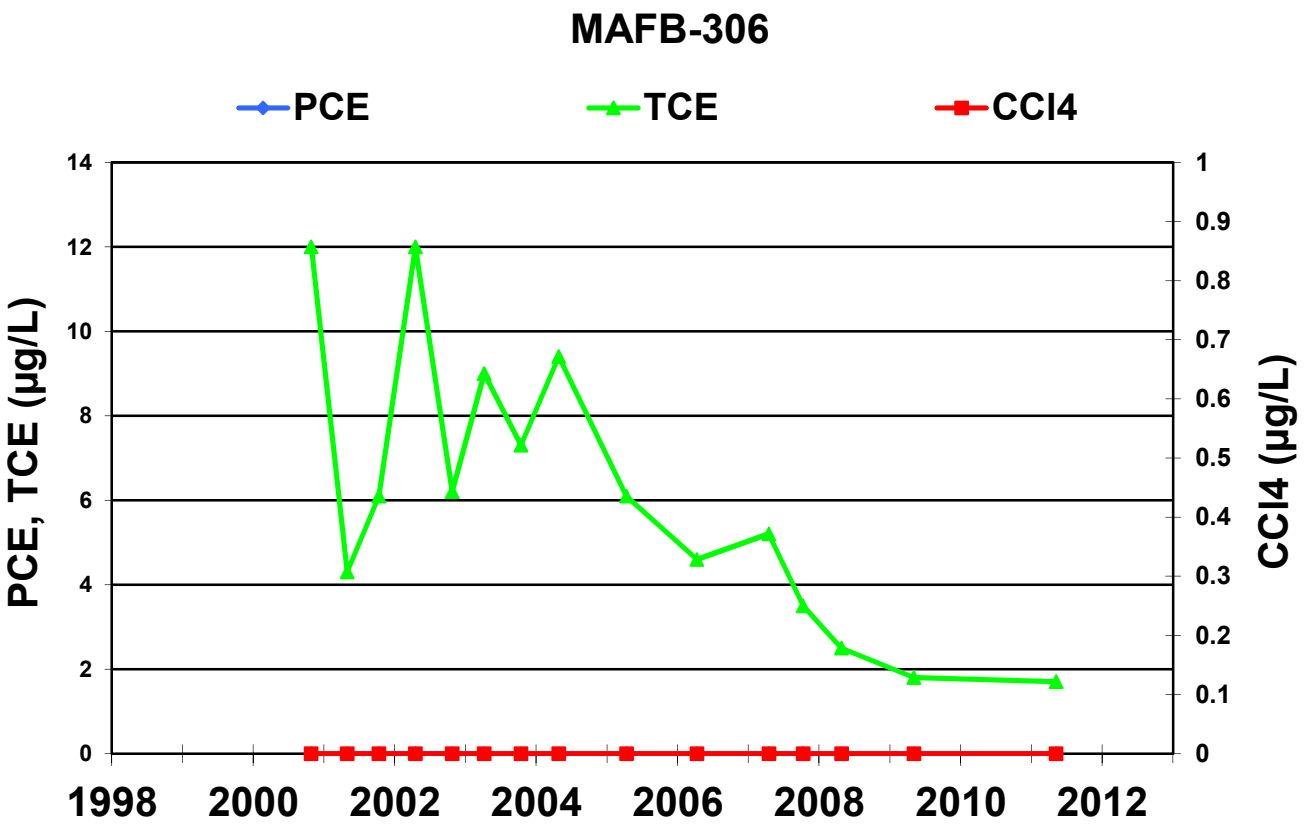

MAFB-301
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
90
80
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

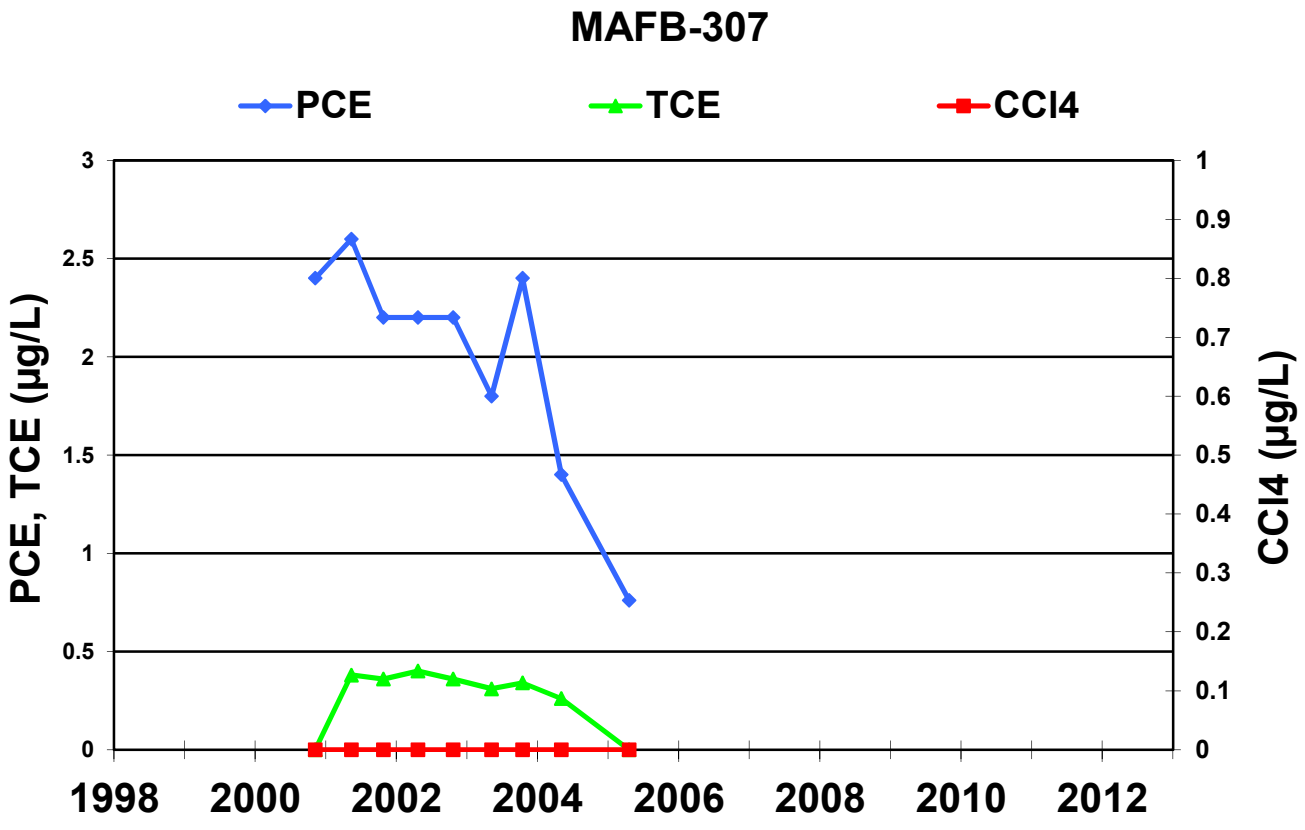

MAFB-302
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

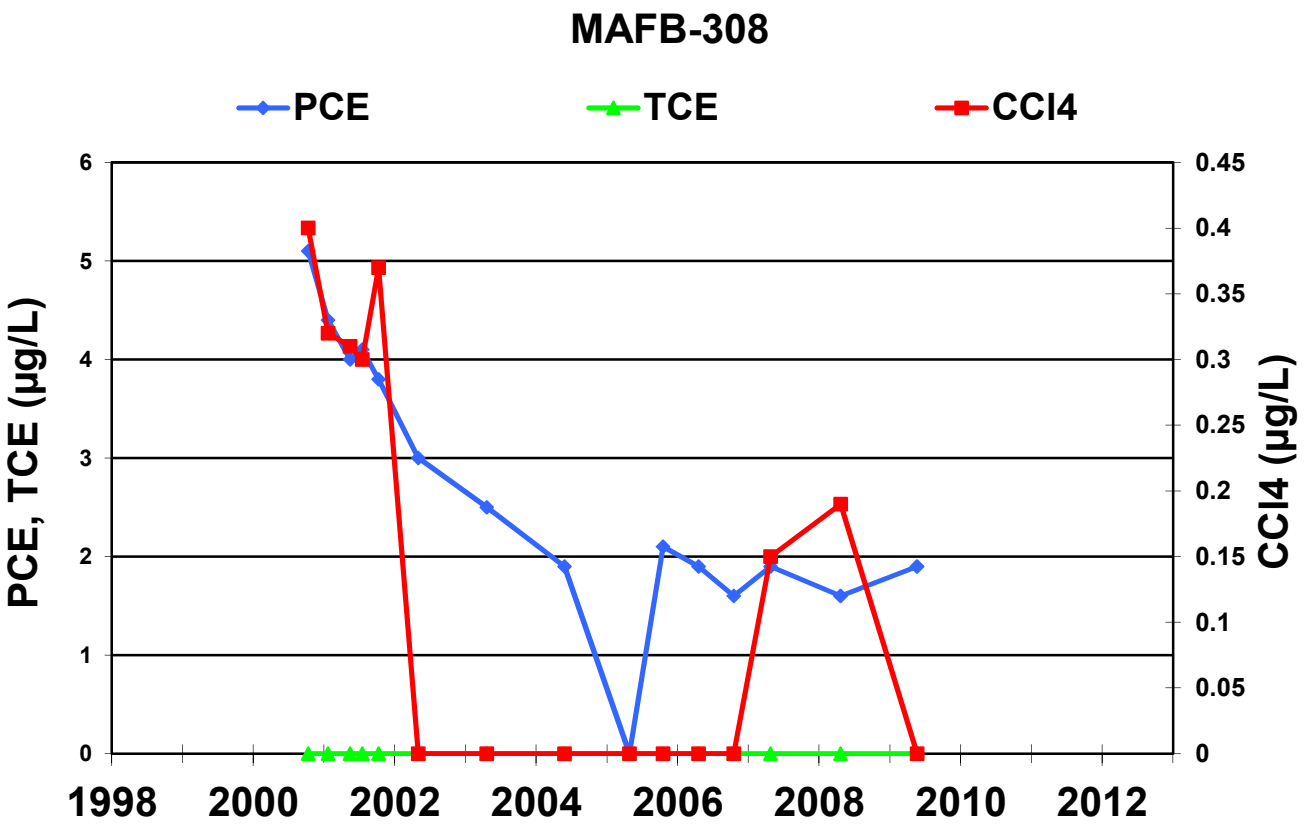

MAFB-303
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

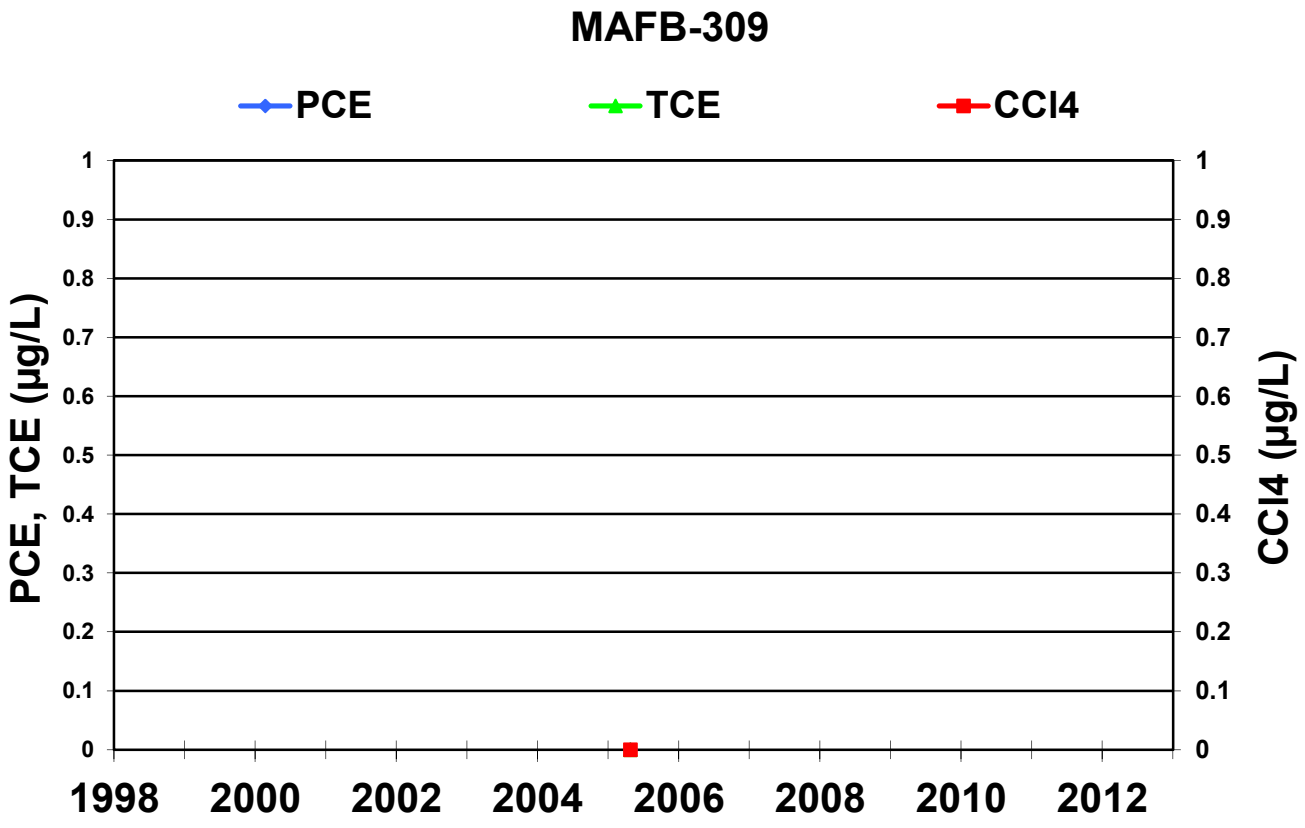

MAFB-304
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

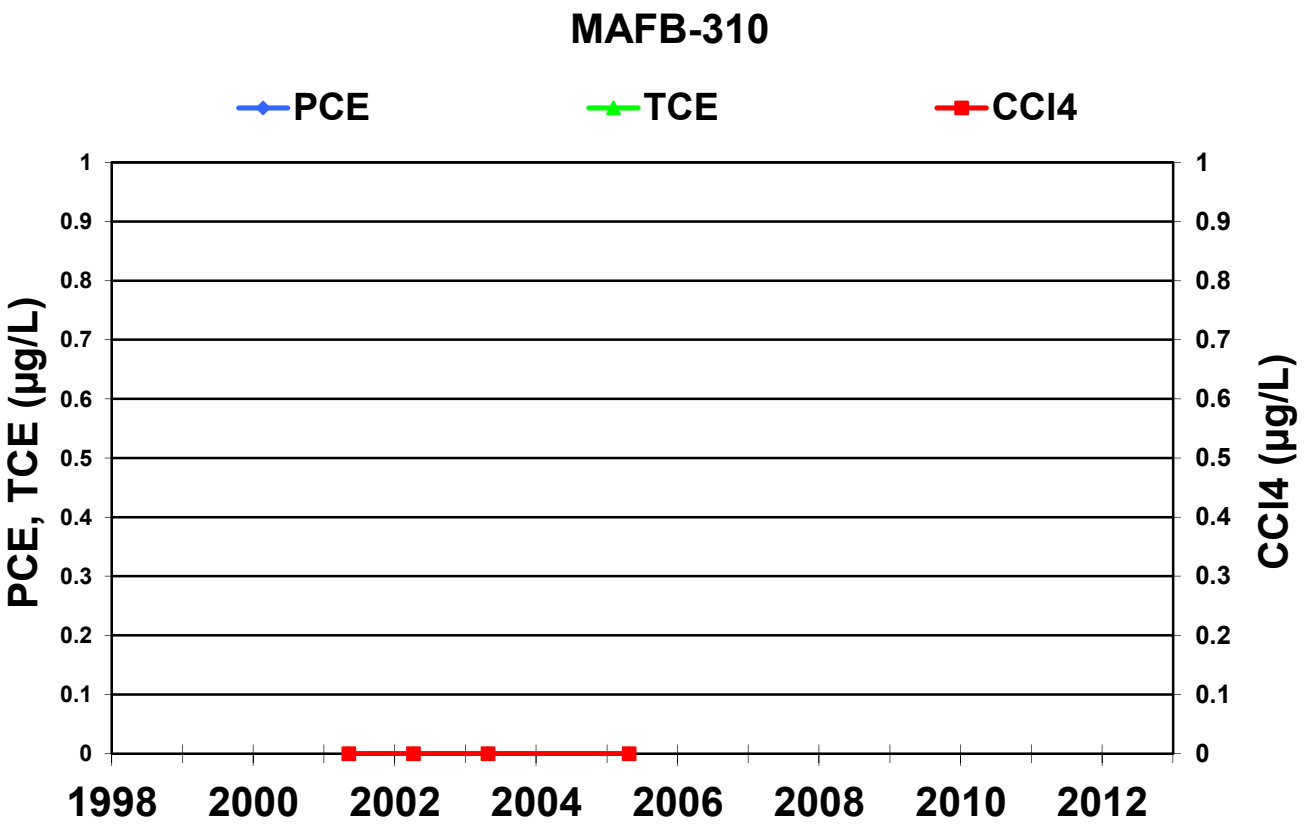

MAFB-305
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

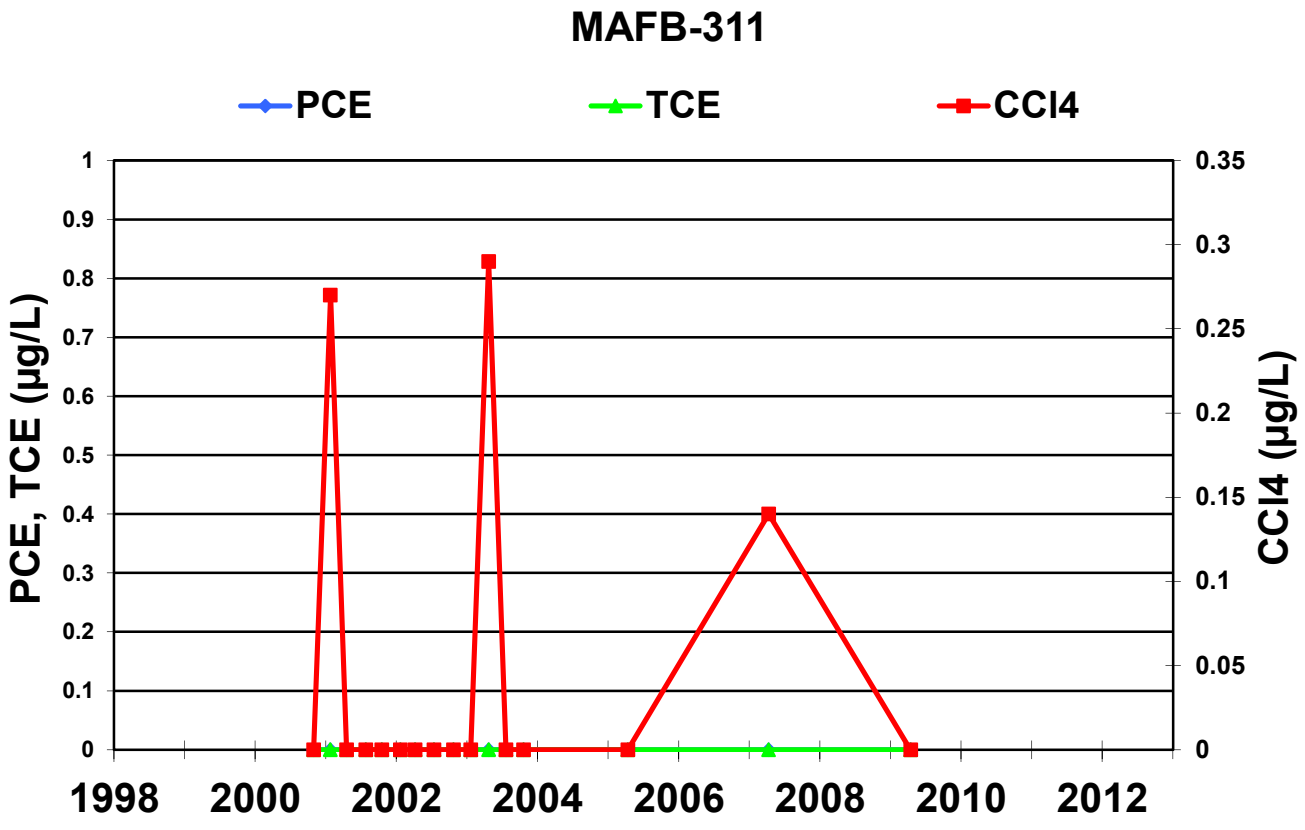

MAFB-306
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

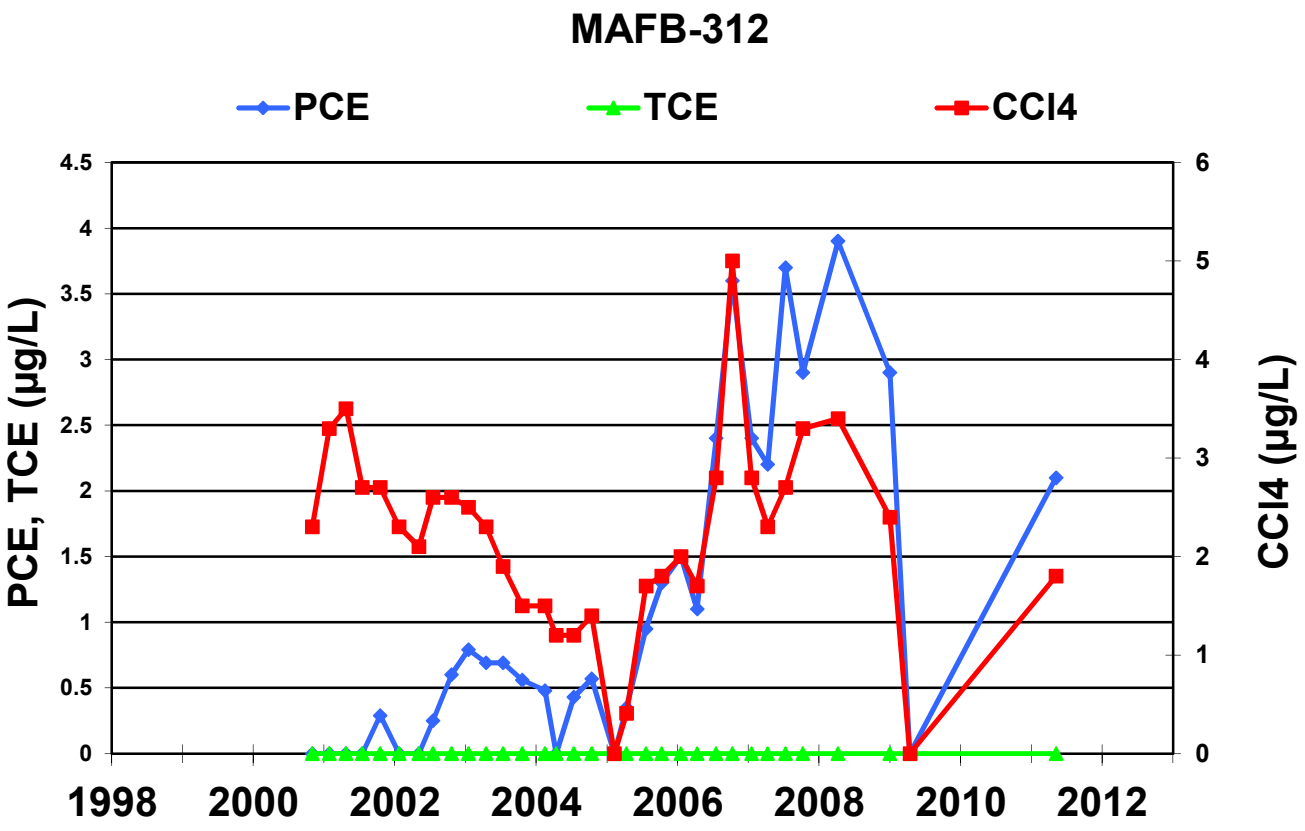

MAFB-307
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

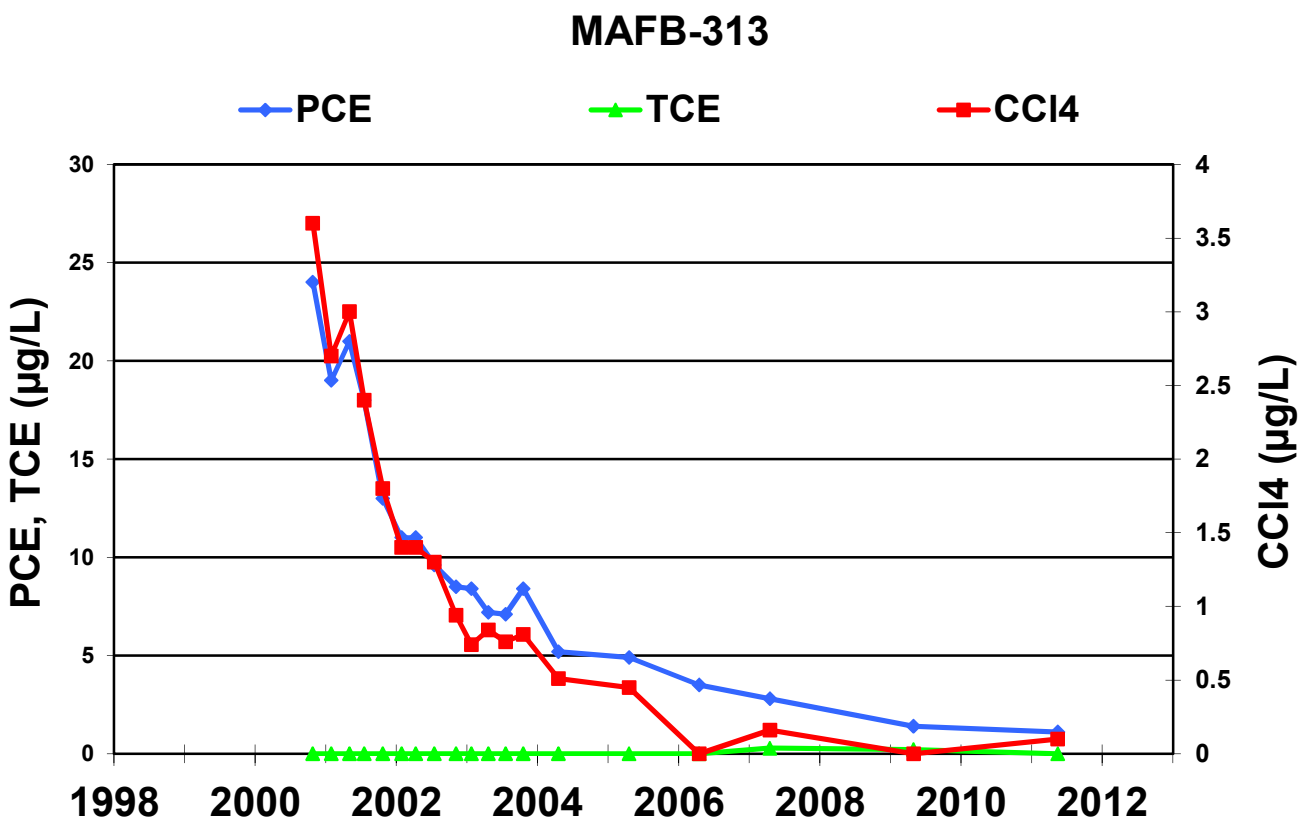

MAFB-308
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
1
2
3
4
5
6
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
0.45
1998
2000
2002
2004
2006
2008
2010
2012

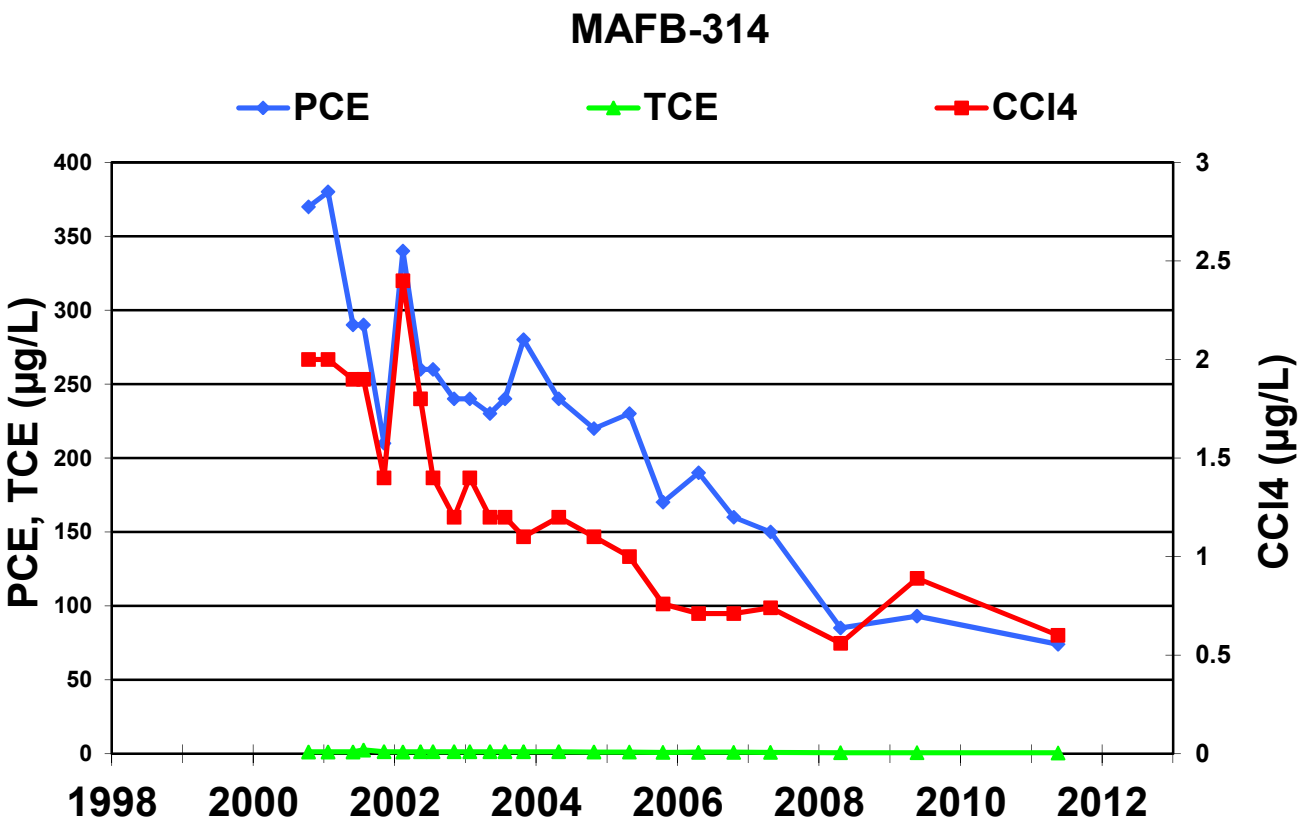

MAFB-309
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1998
2000
2002
2004
2006
2008
2010
2012

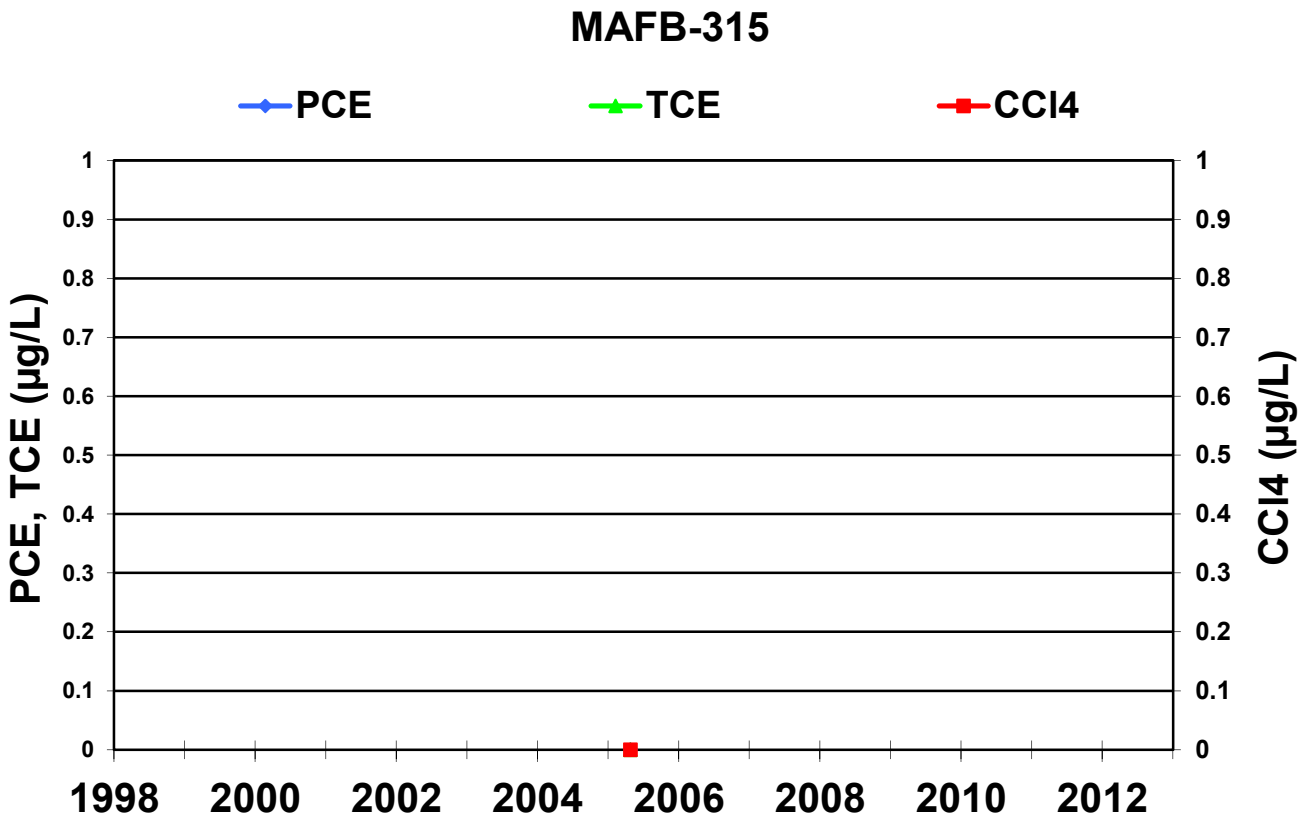

MAFB-310
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

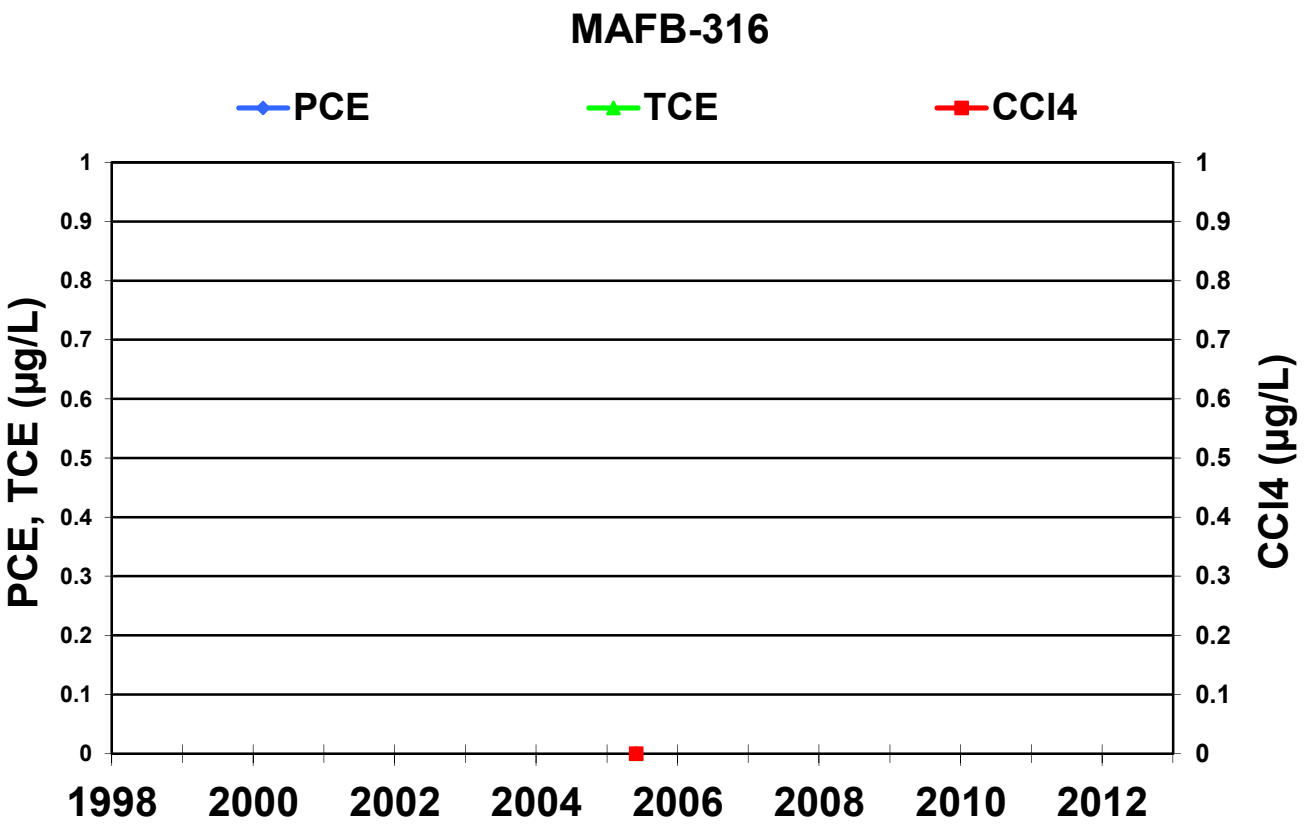

MAFB-311
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

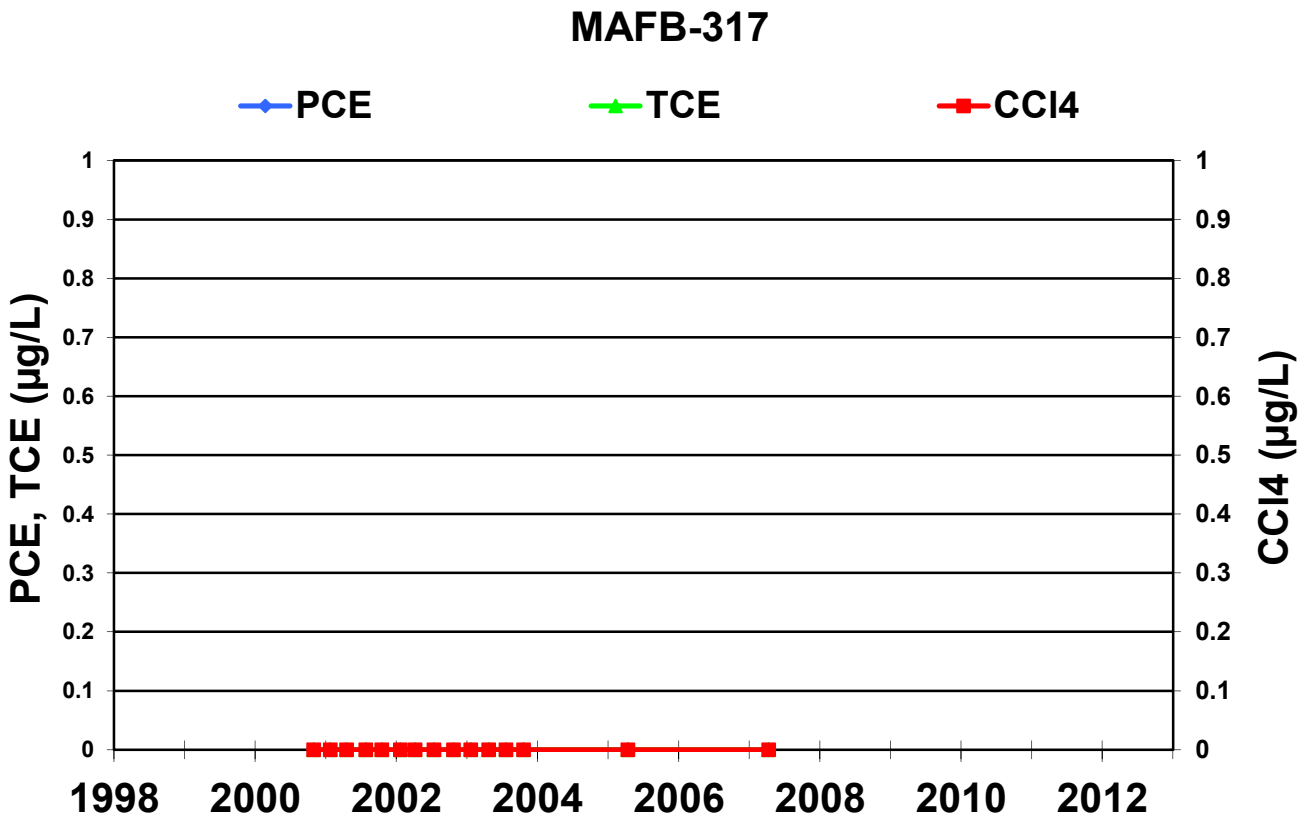

MAFB-312
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
6
5
4
3
2
1
0
1998
2000
2002
2004
2006
2008
2010
2012

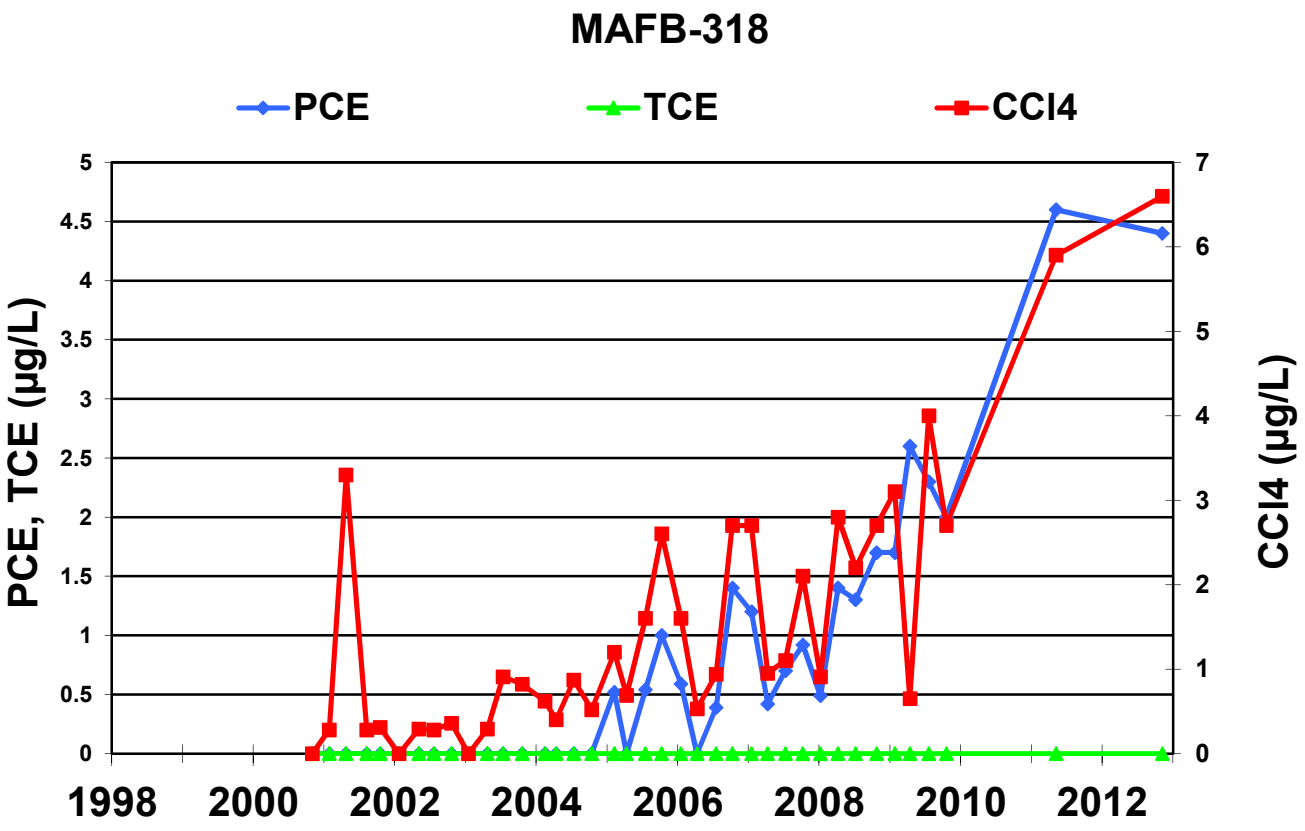

MAFB-313
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
30
25
20
15
10
5
0
4
3.5
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

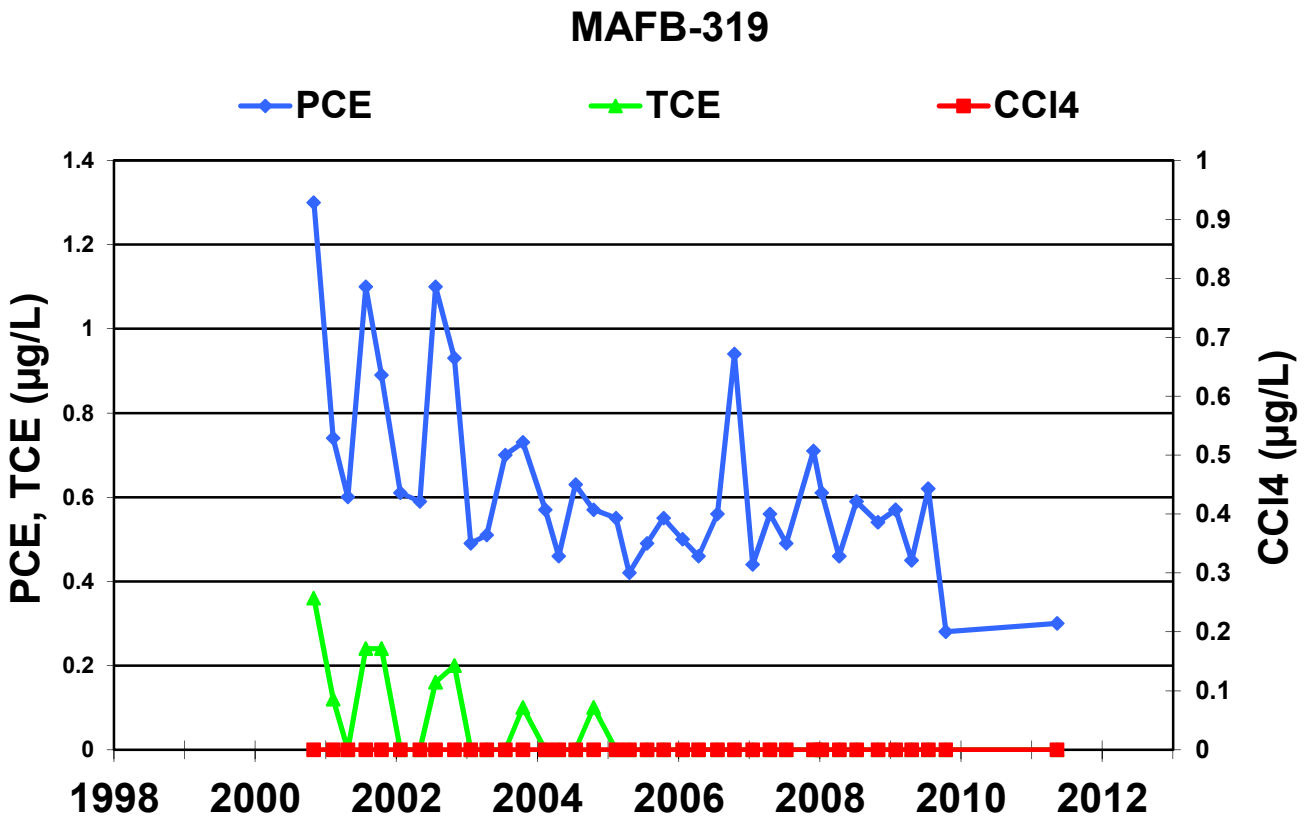

MAFB-314
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
400
350
300
250
200
150
100
50
0
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

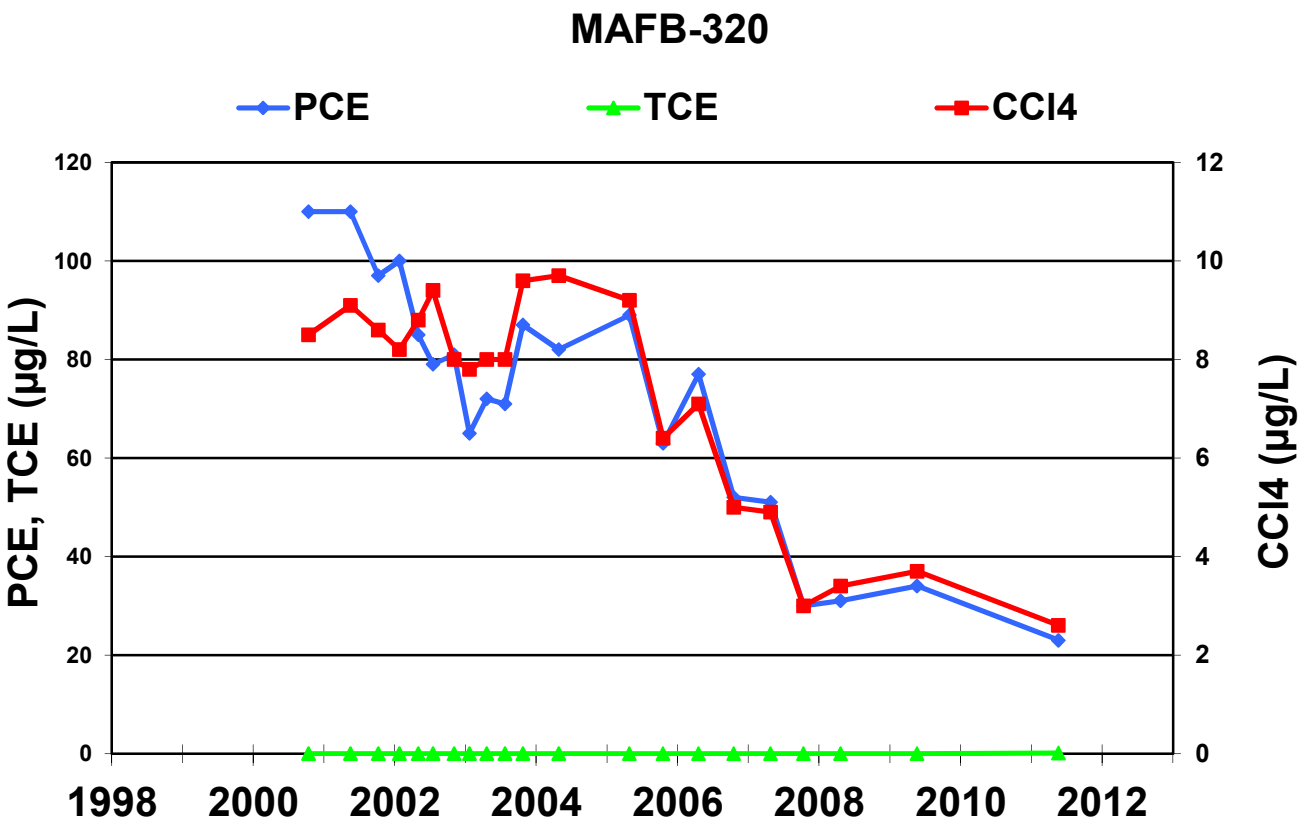

MAFB-315
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

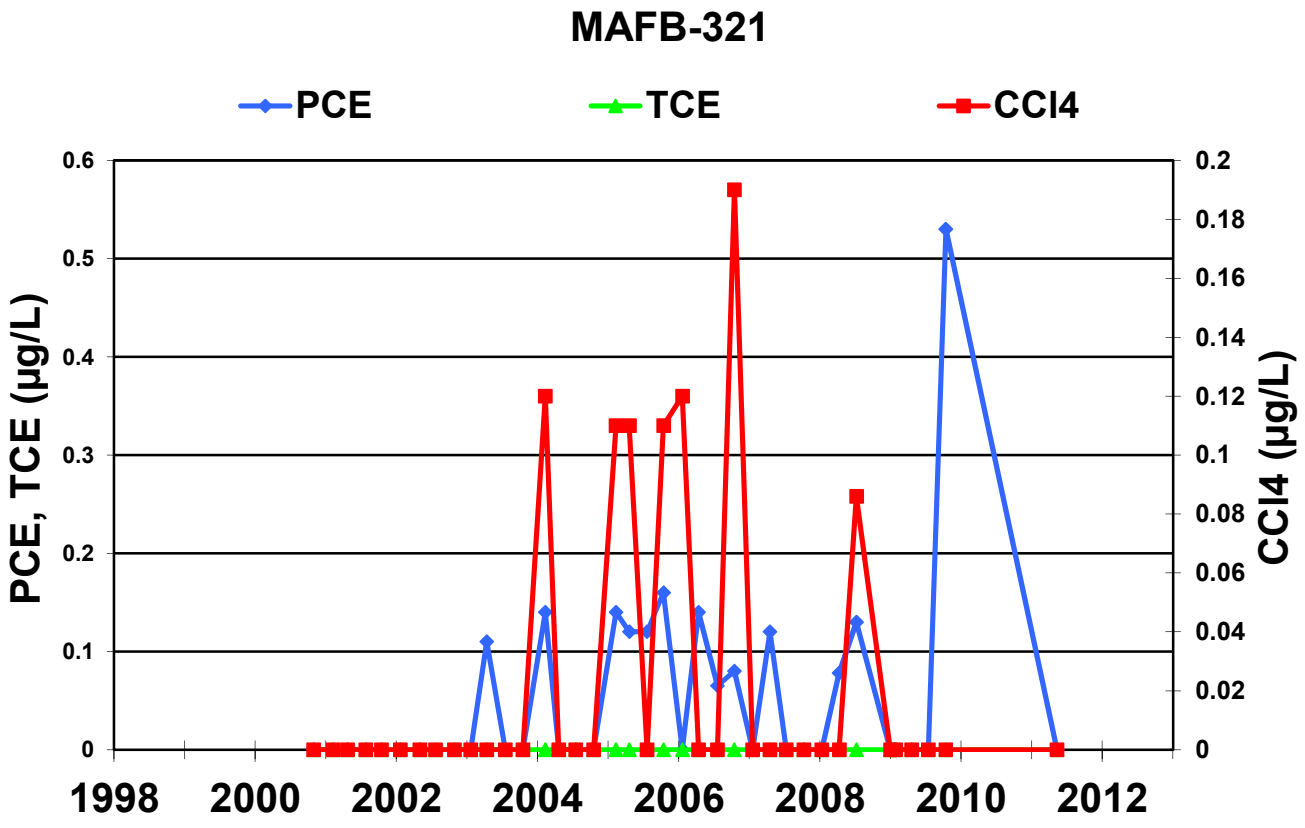

MAFB-316
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

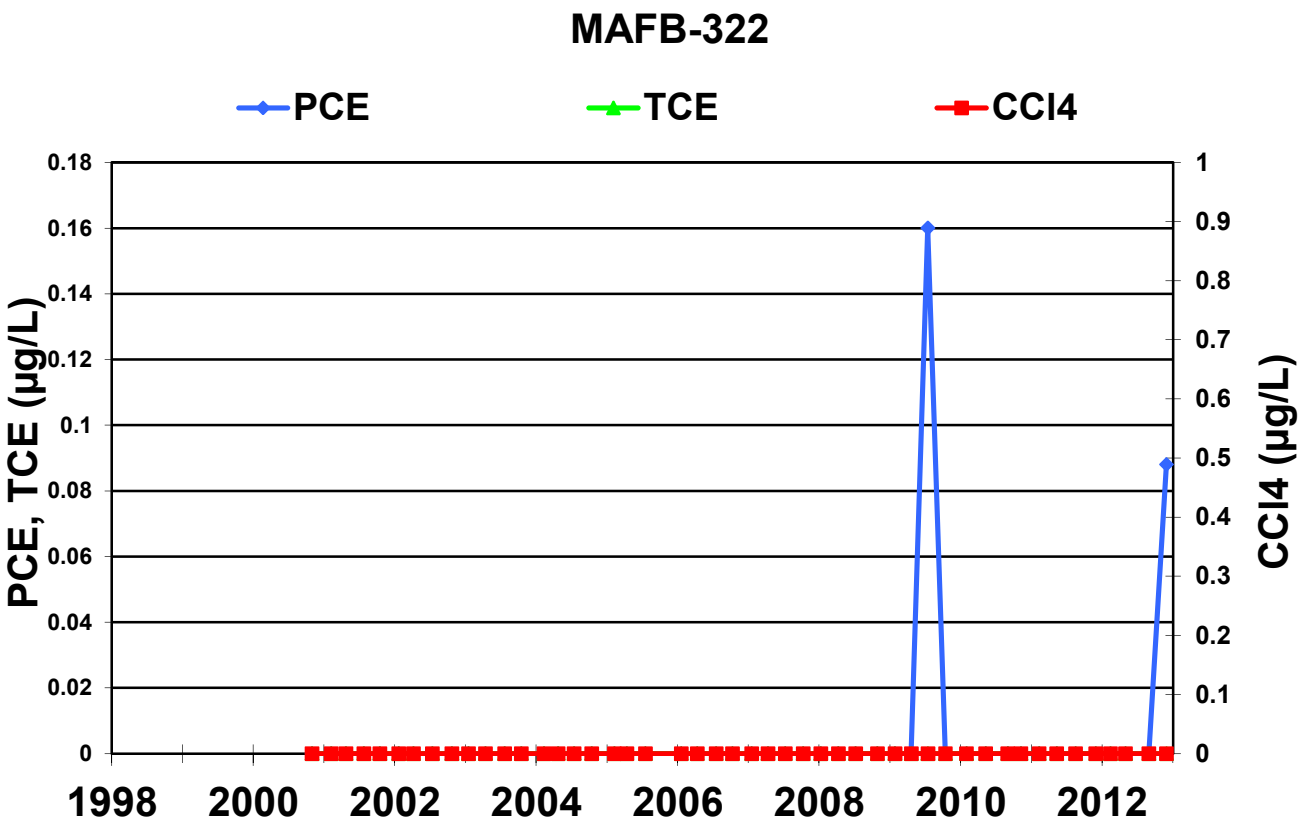

MAFB-317
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

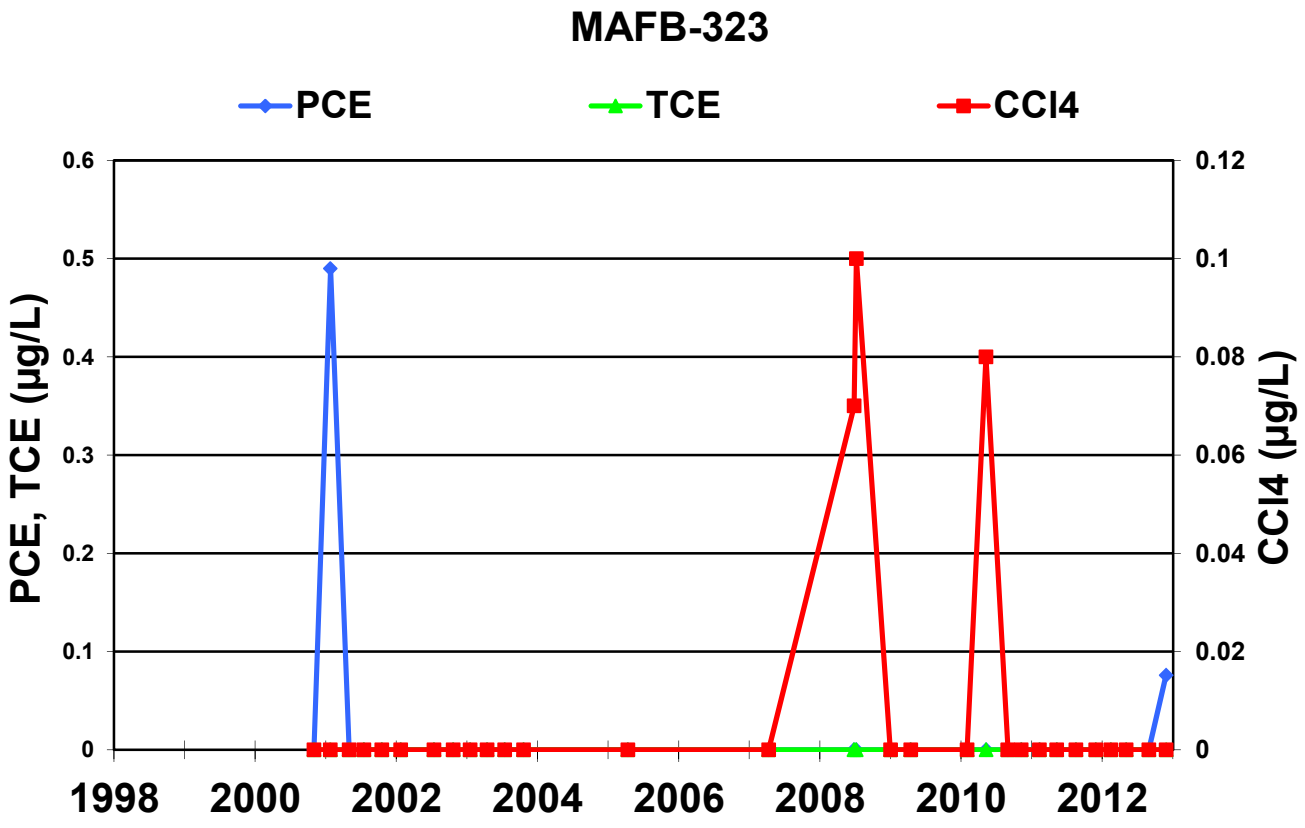

MAFB-318
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
7
6
5
4
3
2
1
0
1998
2000
2002
2004
2006
2008
2010
2012

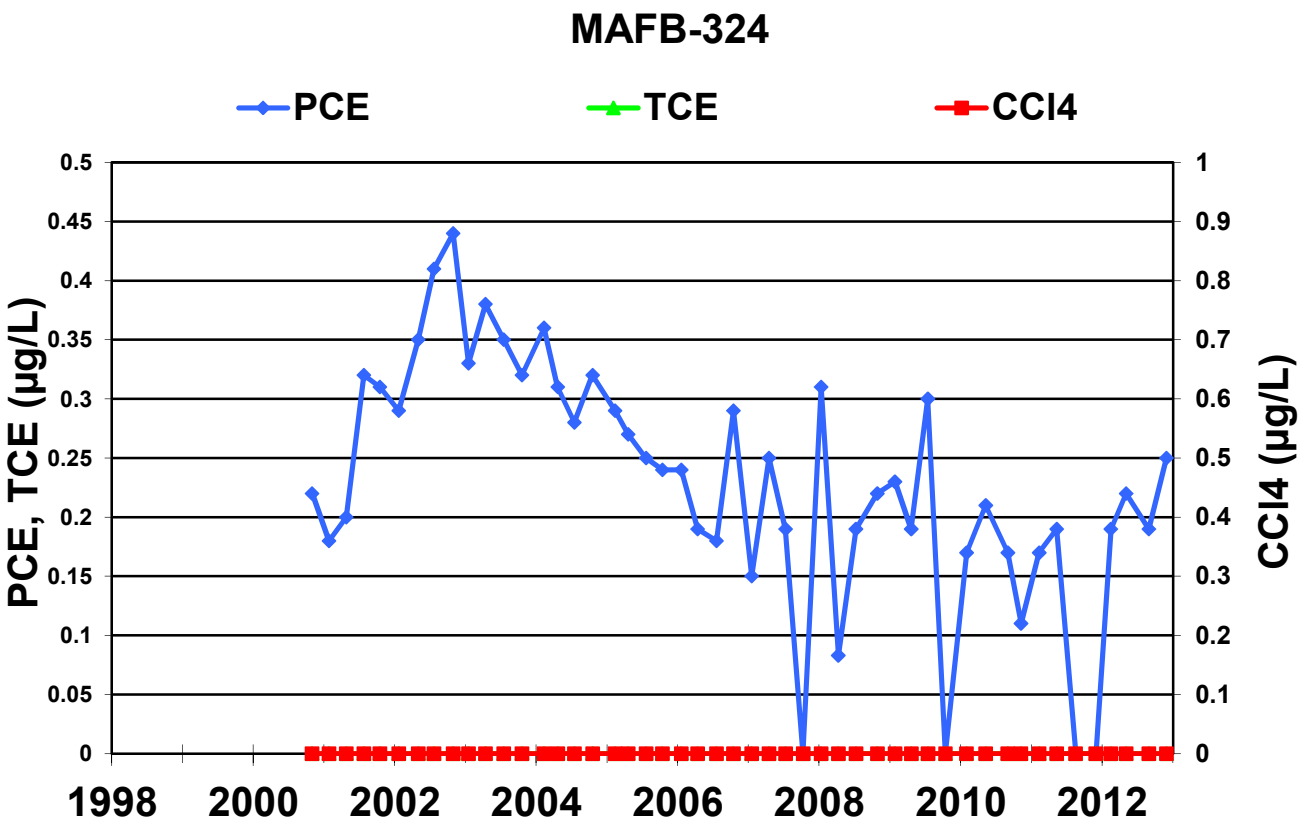

MAFB-319
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

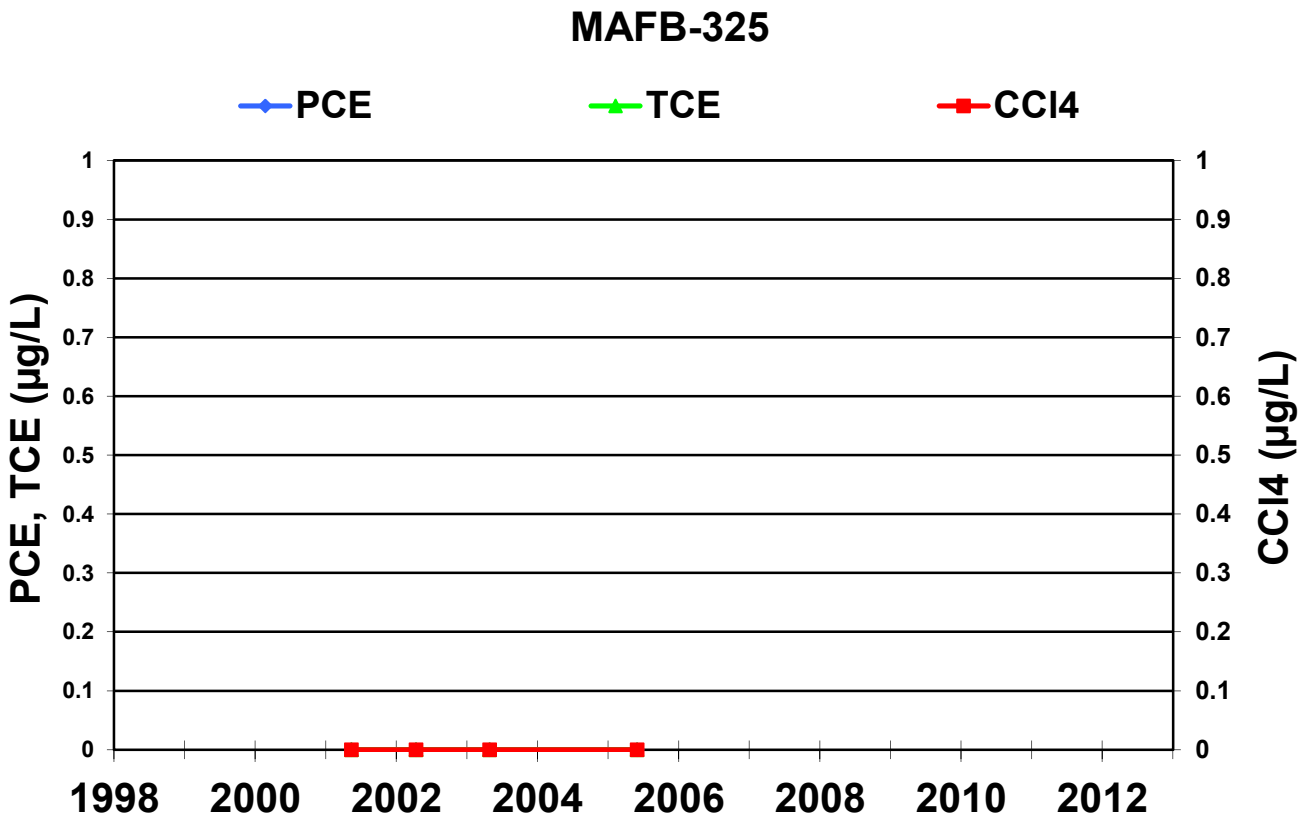

MAFB-320
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
120
100
80
60
40
20
0
12
10
8
6
4
2
0
1998
2000
2002
2004
2006
2008
2010
2012

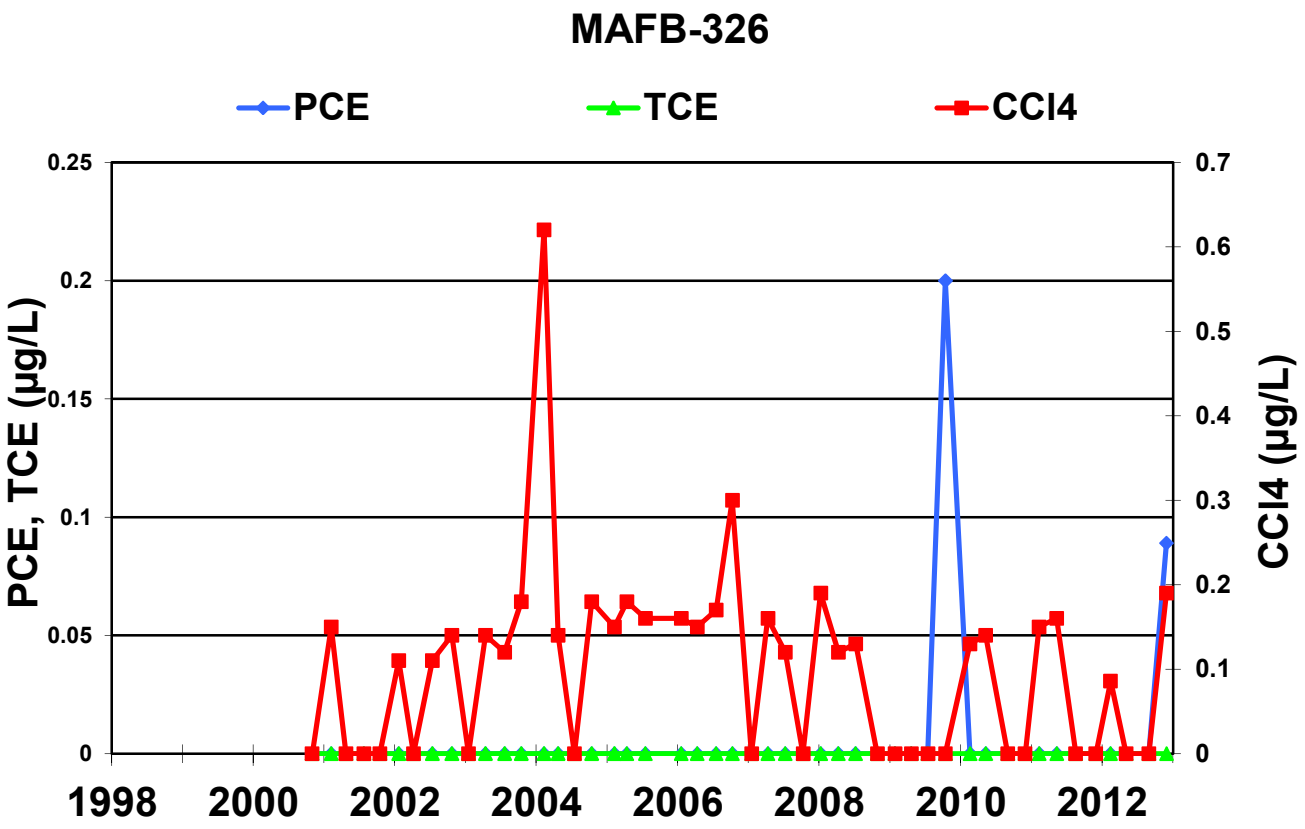

MAFB-321
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1998
2000
2002
2004
2006
2008
2010
2012

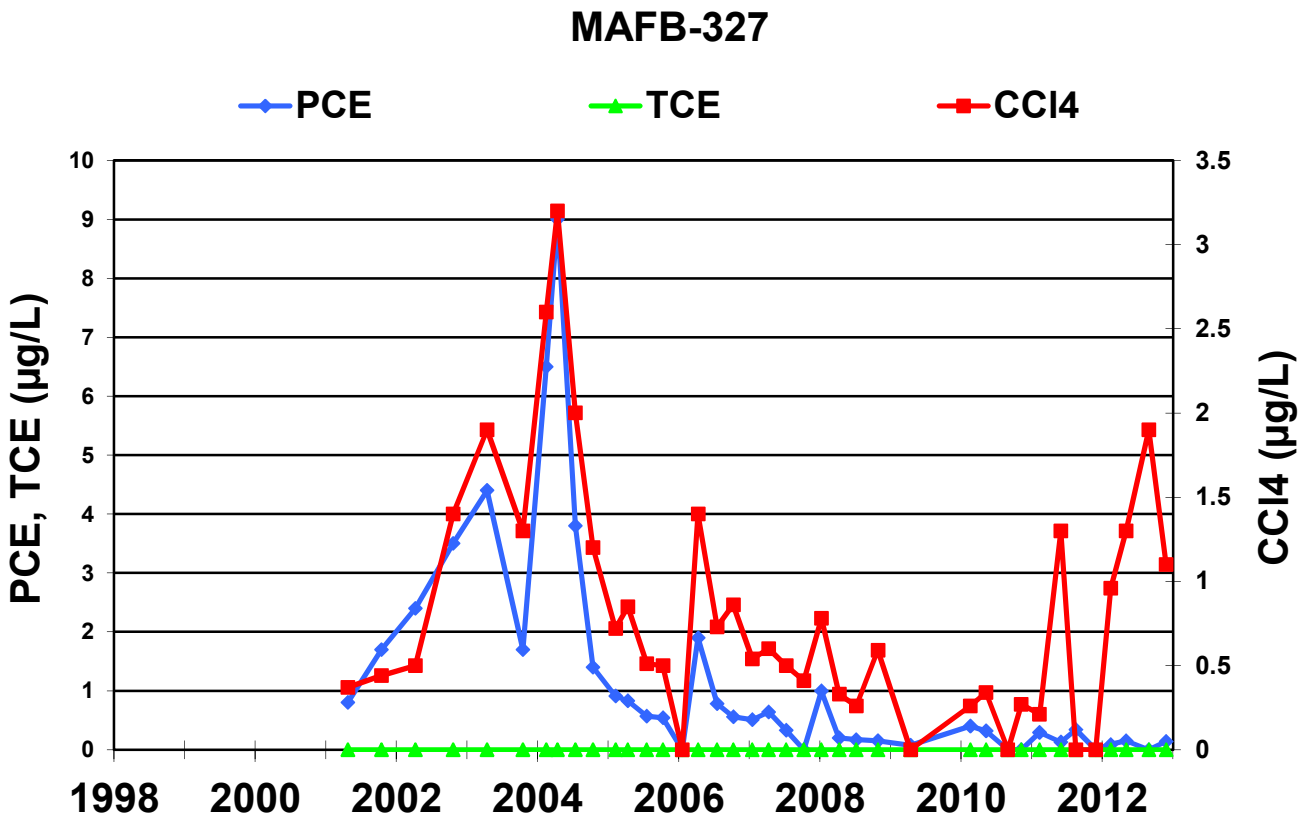

MAFB-322
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

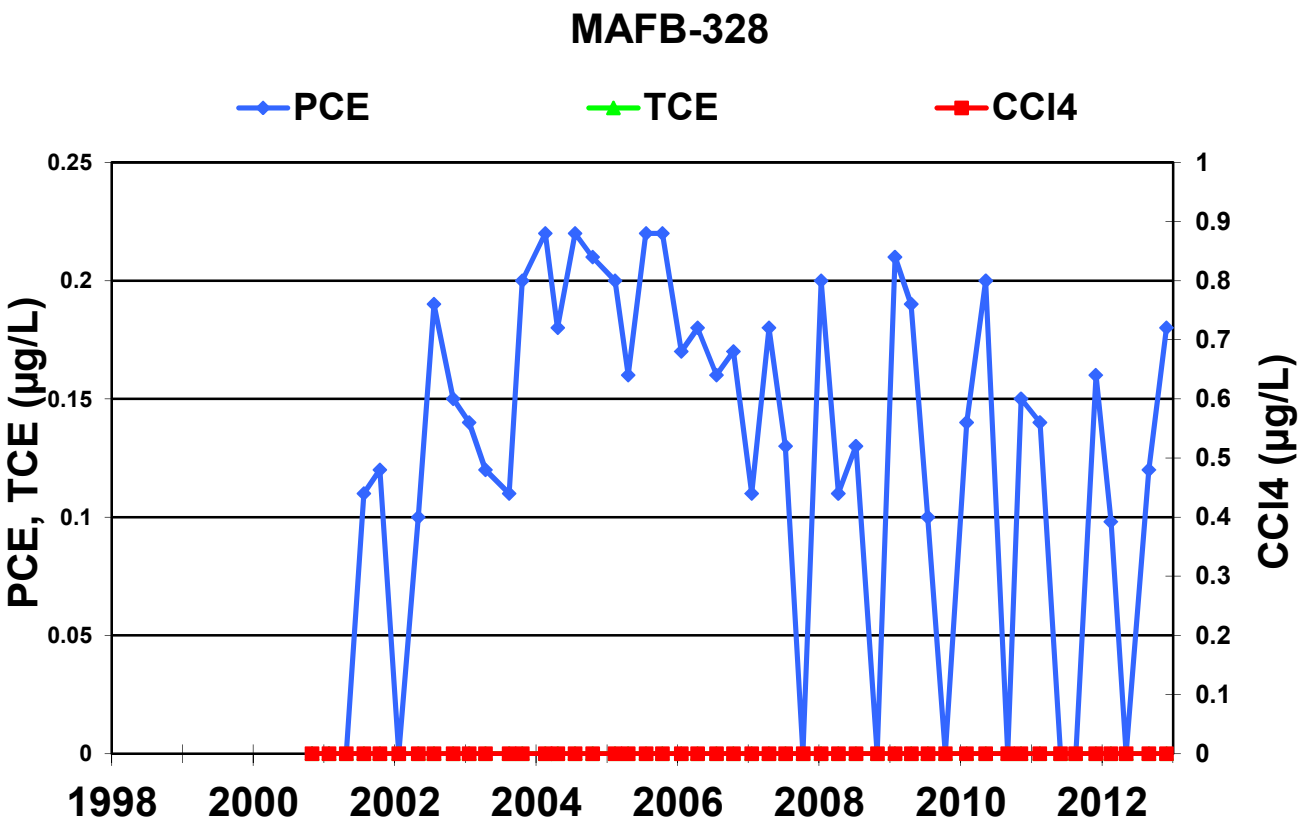

MAFB-323
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
0.12
0.1
0.08
0.06
0.04
0.02
0
1998
2000
2002
2004
2006
2008
2010
2012

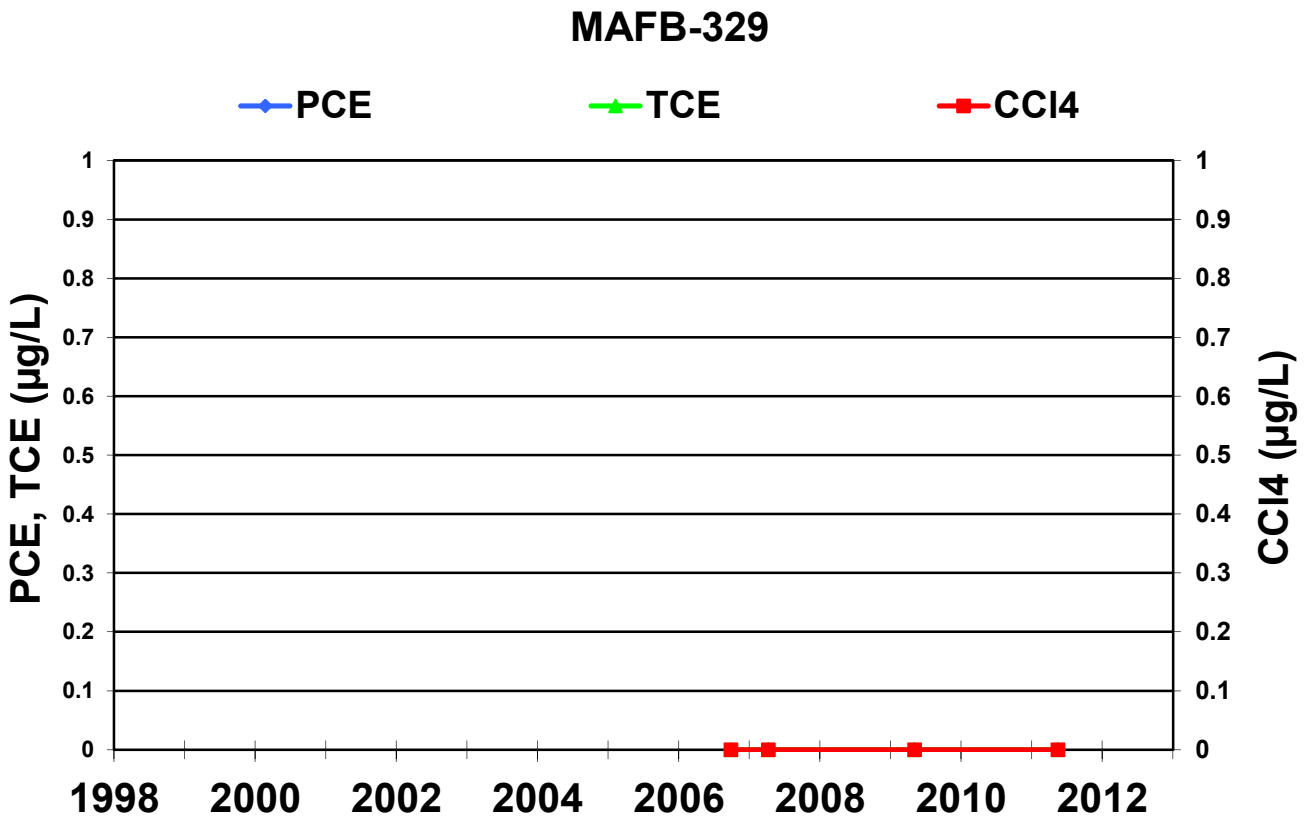

MAFB-324
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

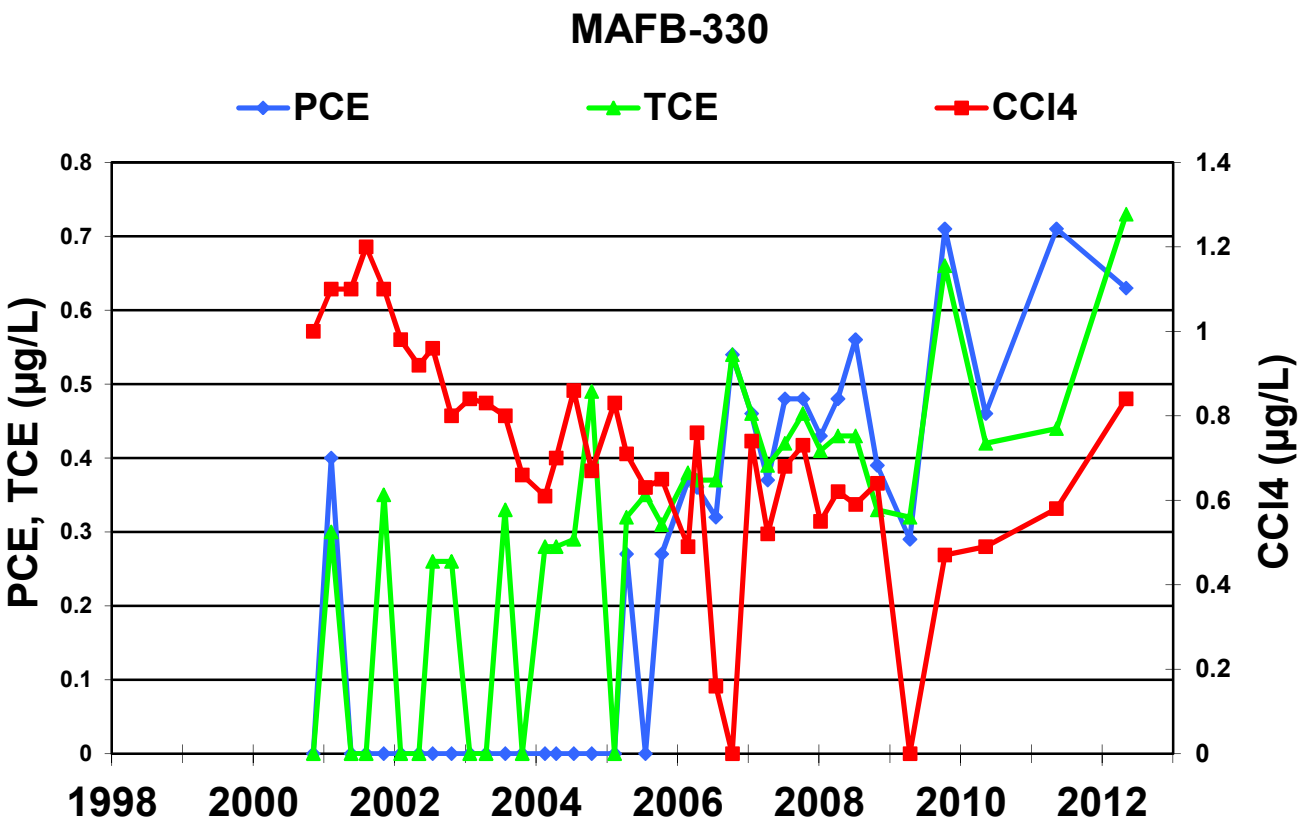

MAFB-325
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

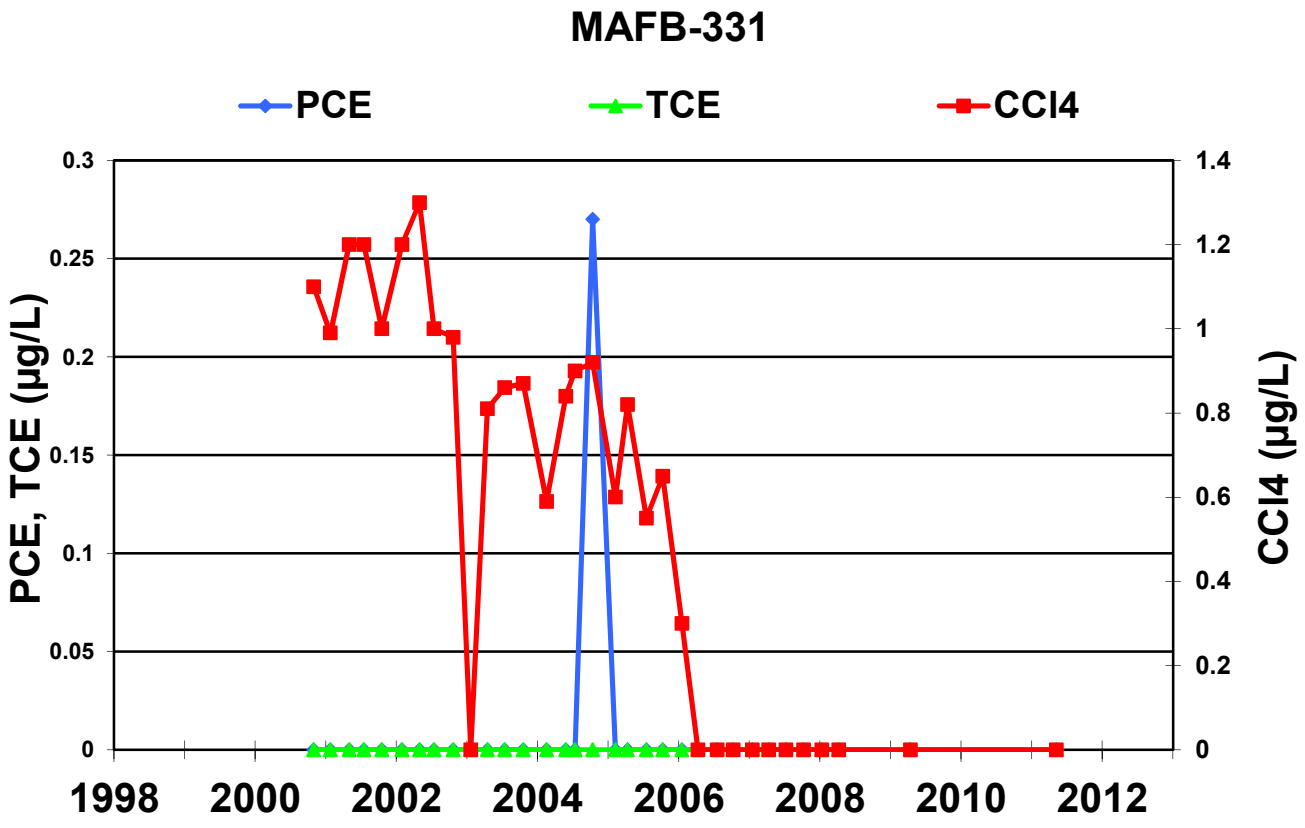

MAFB-326
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.25
0.2
0.15
0.1
0.05
0
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

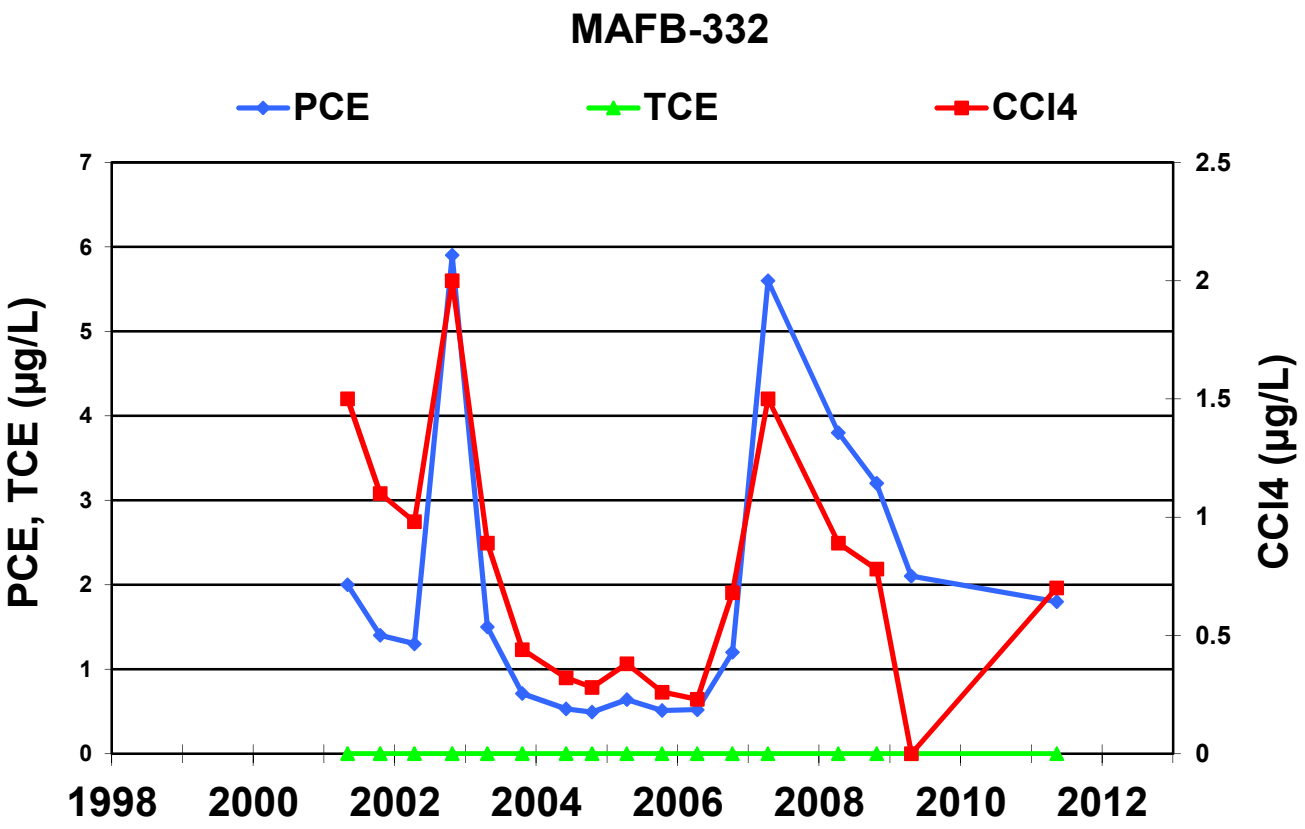

MAFB-327
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
10
9
8
7
6
5
4
3
2
1
0
3.5
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

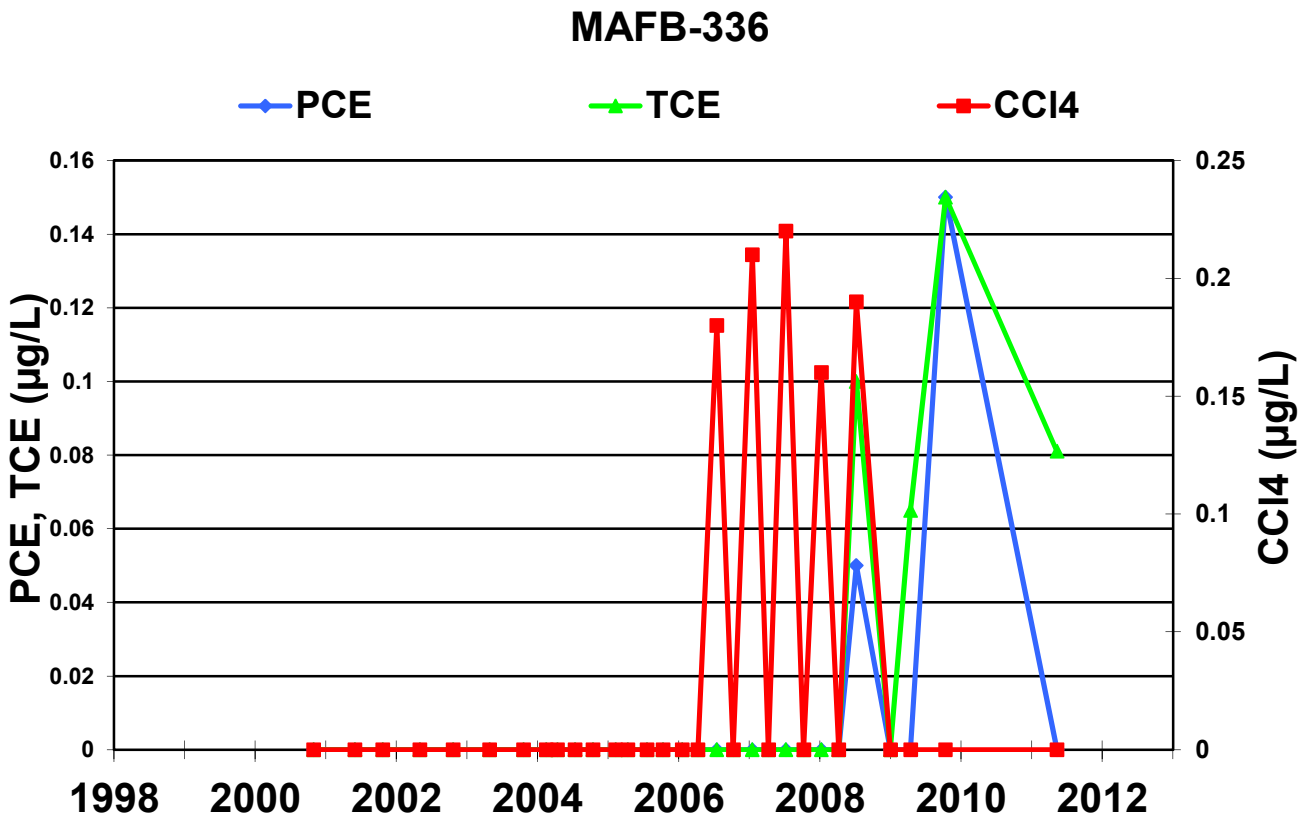

MAFB-328
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

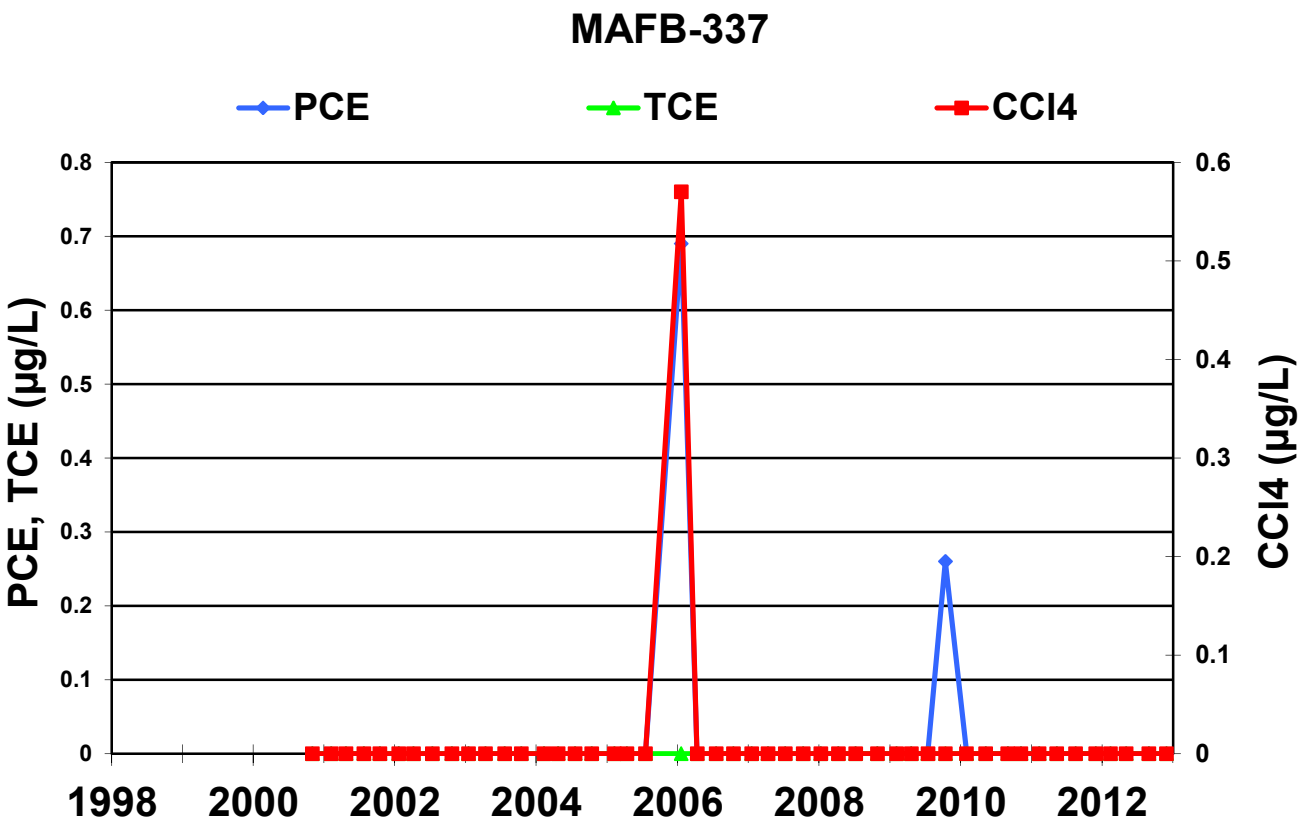

MAFB-329
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

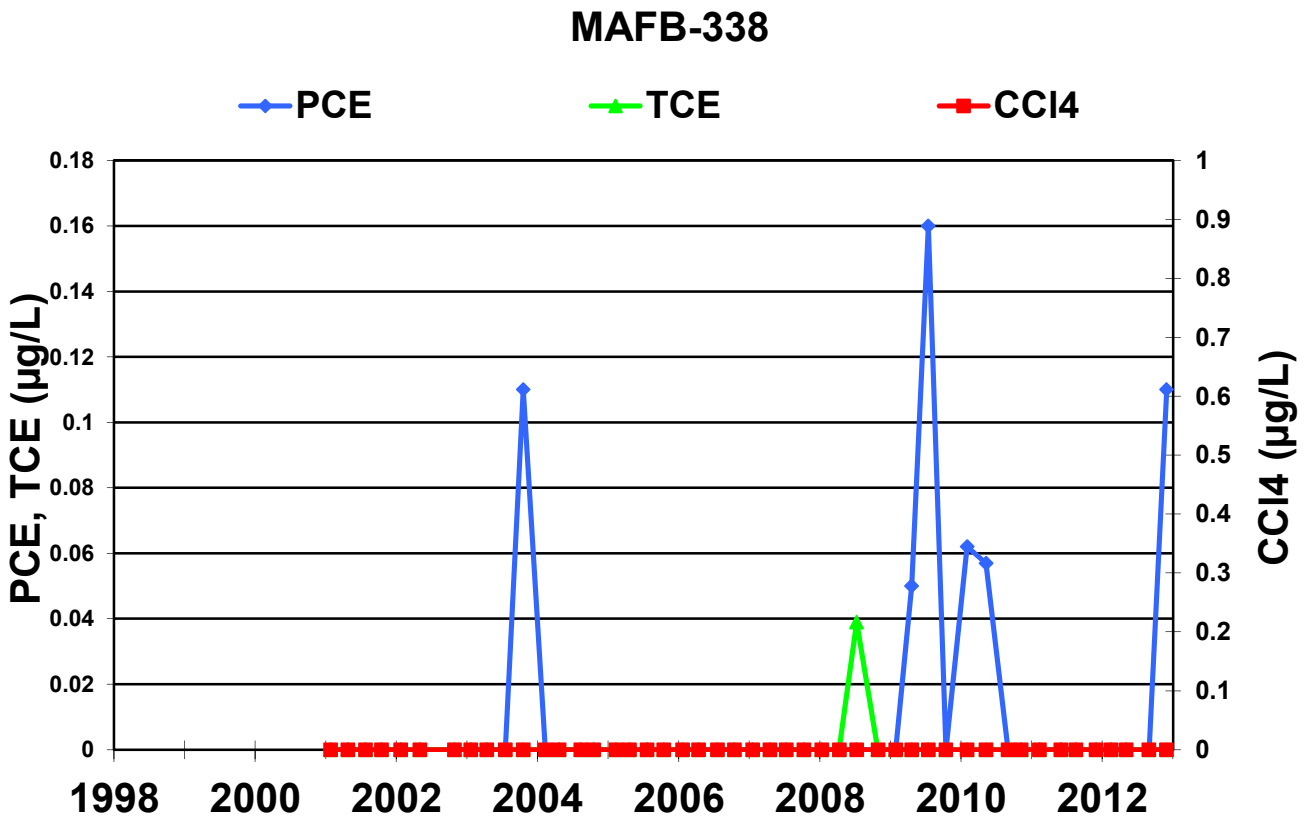

MAFB-330
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

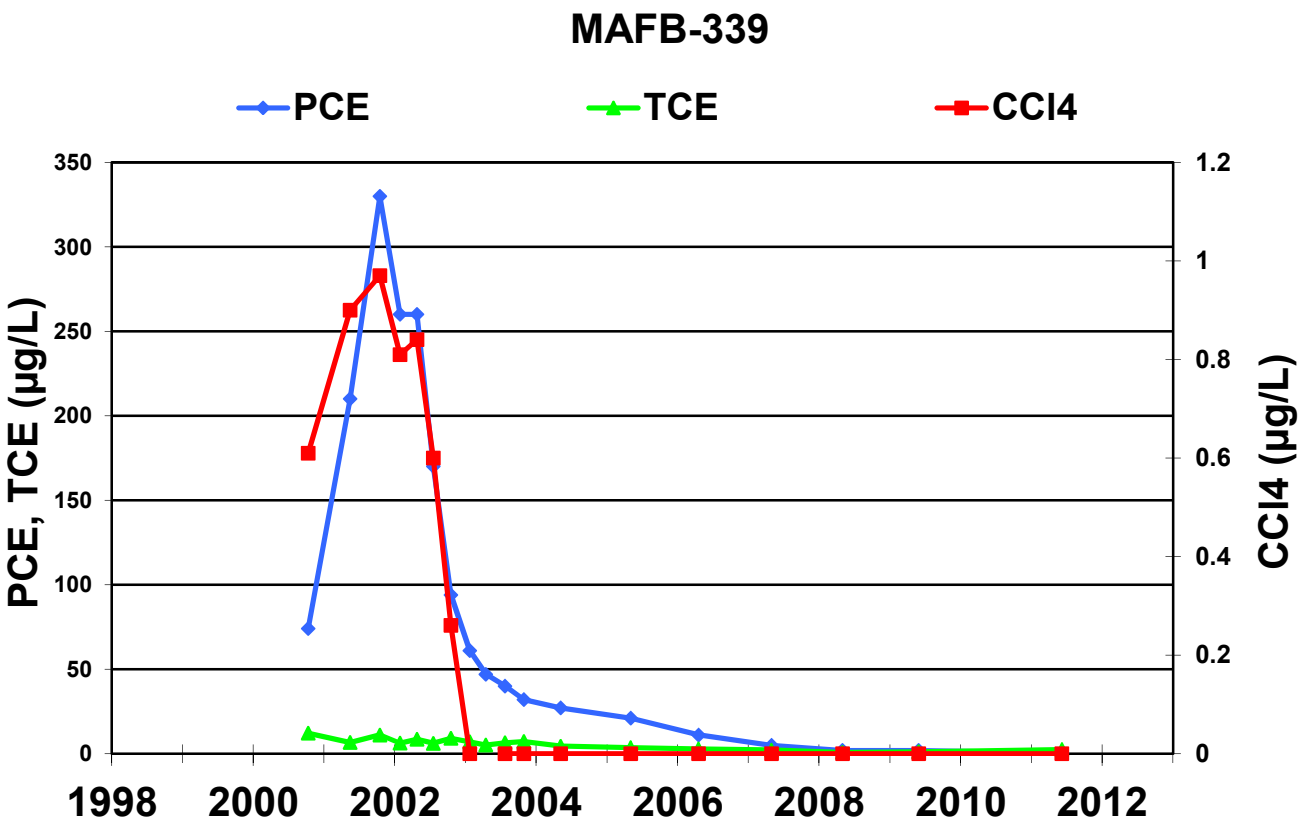

MAFB-331
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.3
0.25
0.2
0.15
0.1
0.05
0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

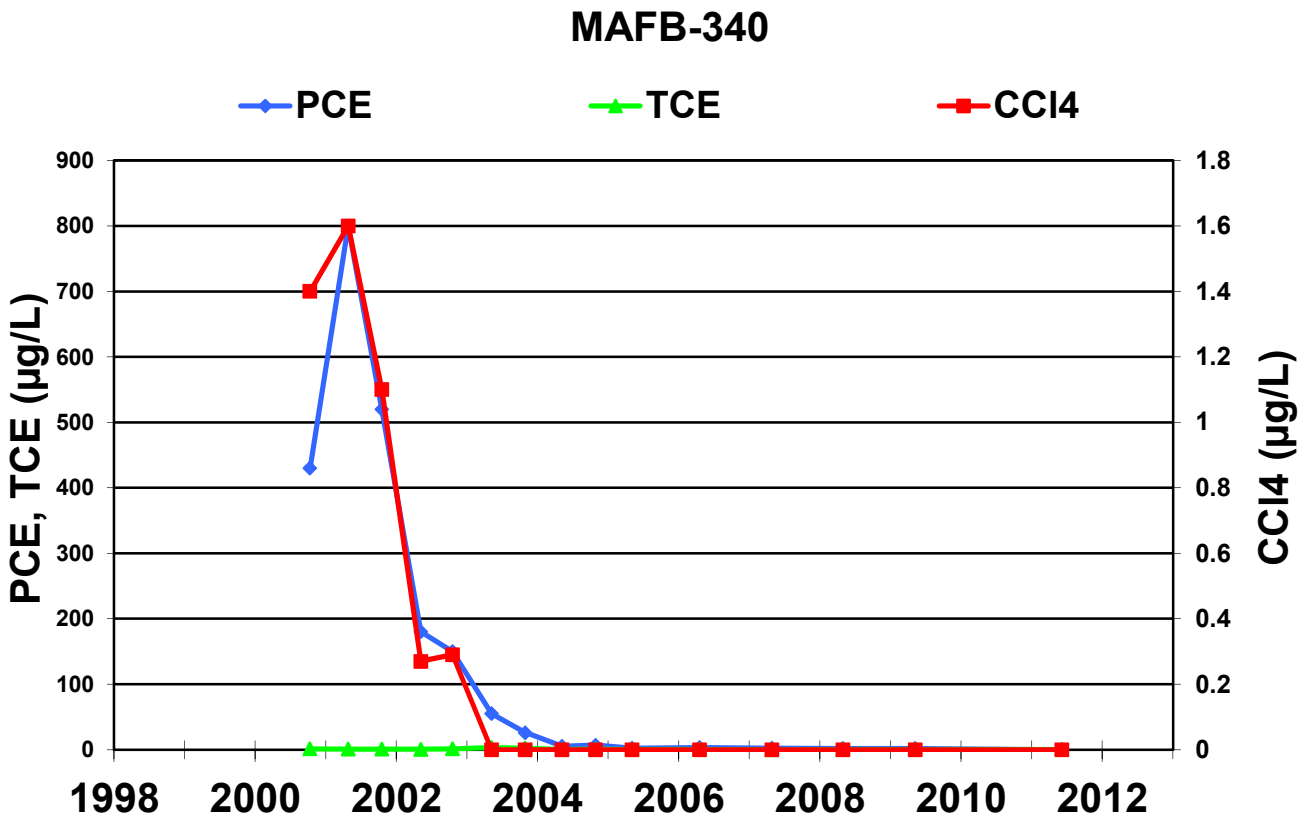

MAFB-332
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
1
2
3
4
5
6
7
0
0.5
1
1.5
2
2.5
1998
2000
2002
2004
2006
2008
2010
2012

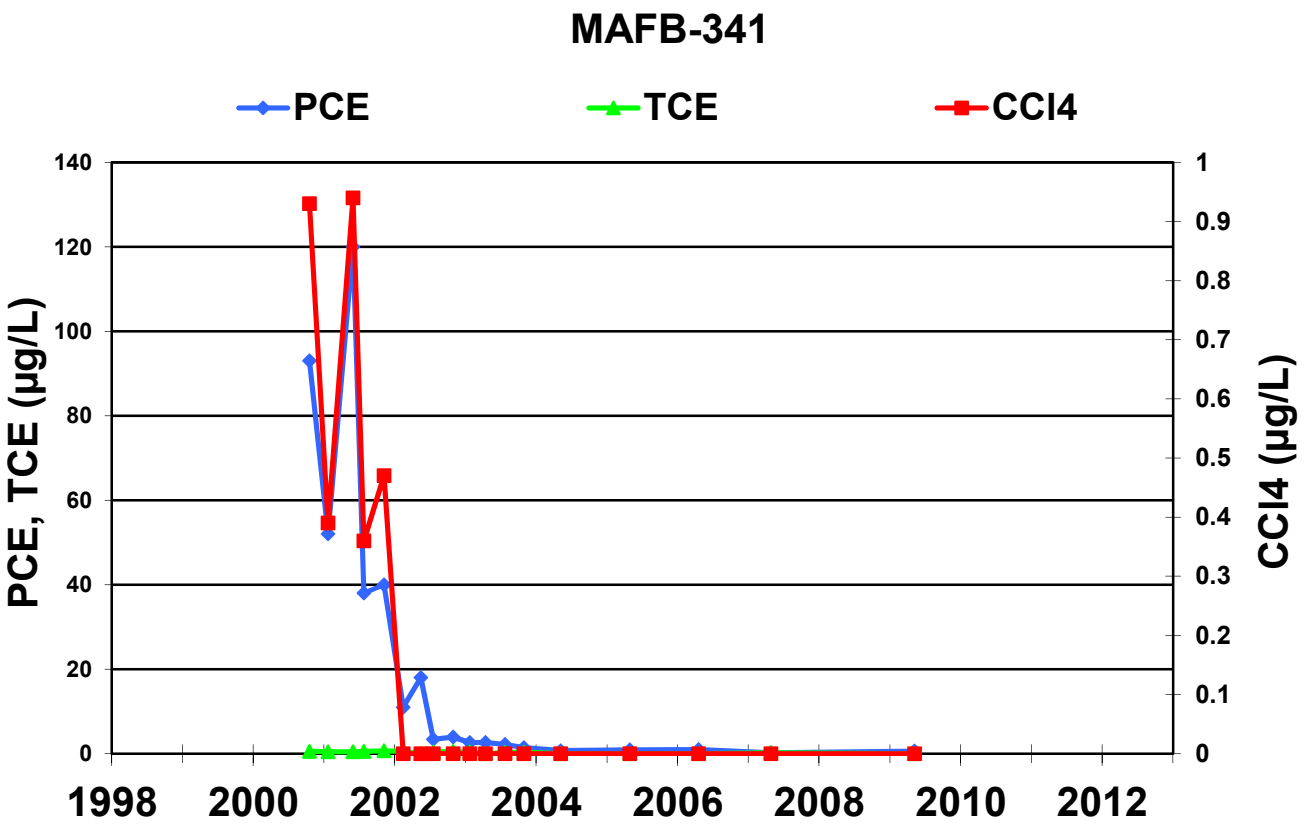

MAFB-336
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0
0.05
0.1
0.15
0.2
0.25
1998
2000
2002
2004
2006
2008
2010
2012

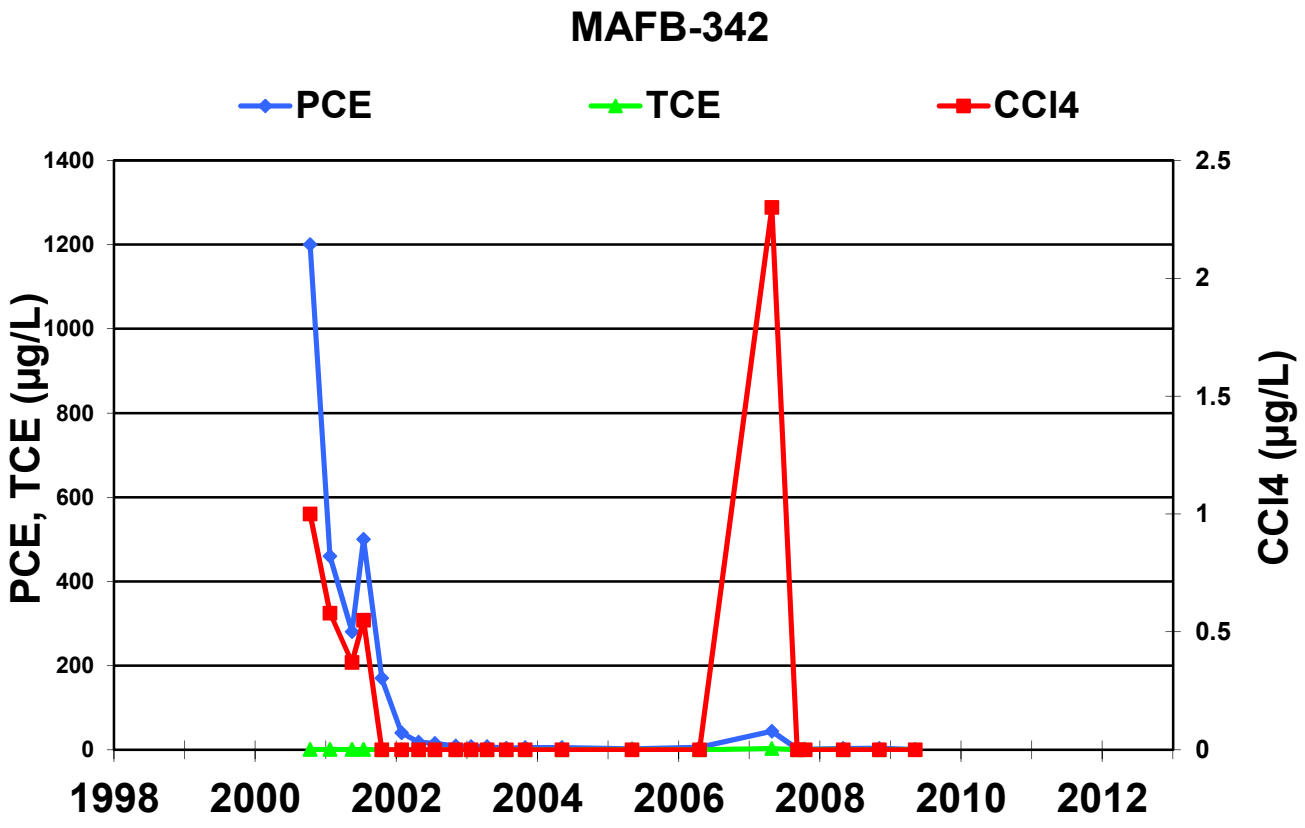

MAFB-337
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

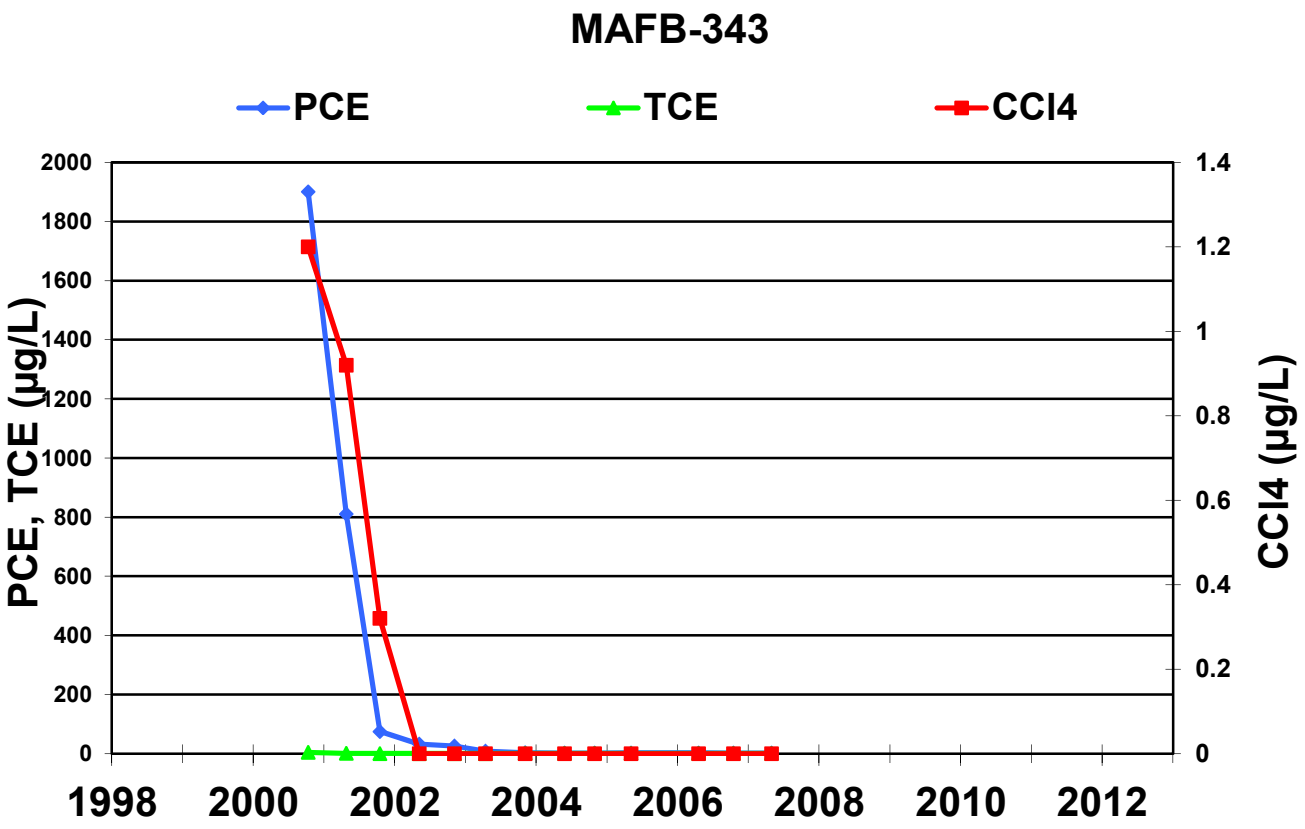

MAFB-338
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

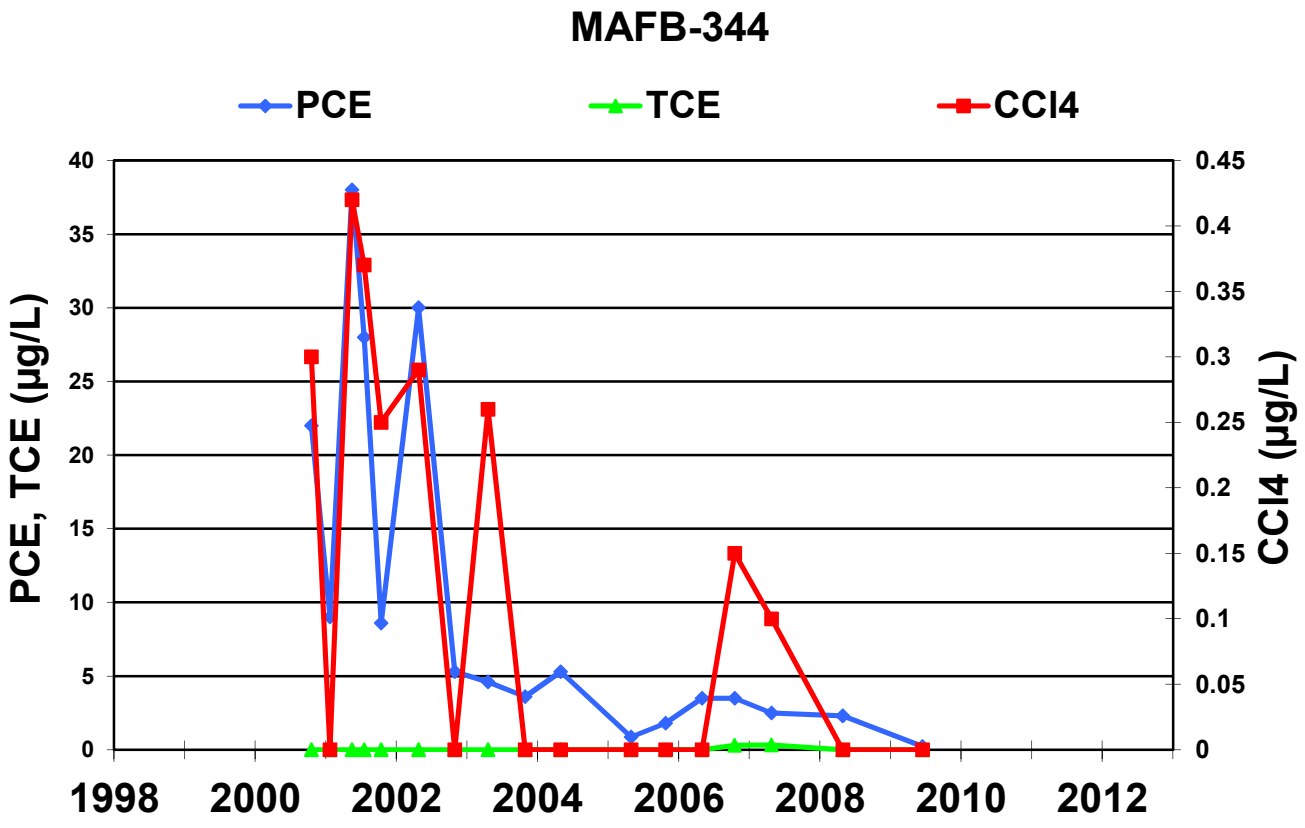

MAFB-339
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
350
300
250
200
150
100
50
0
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

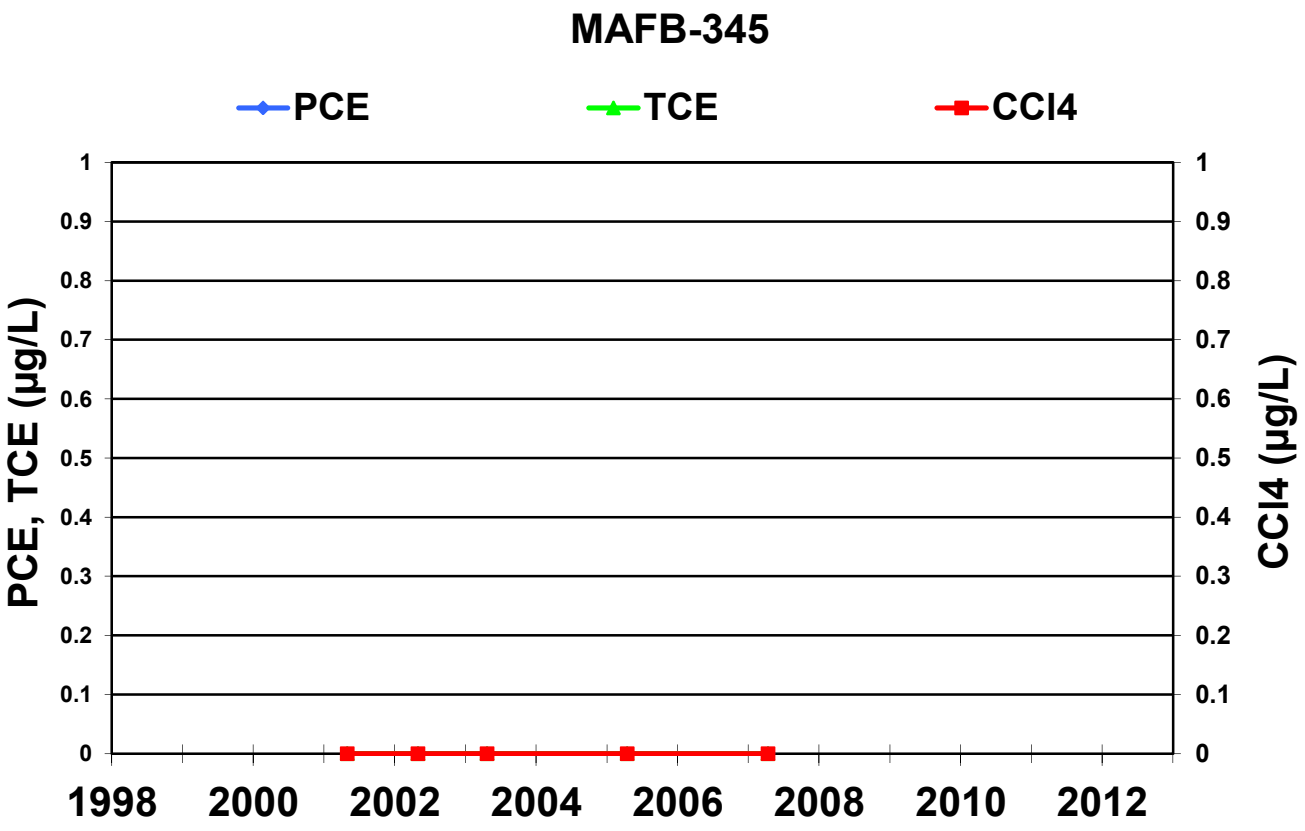

MAFB-340
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
900
800
700
600
500
400
300
200
100
0
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

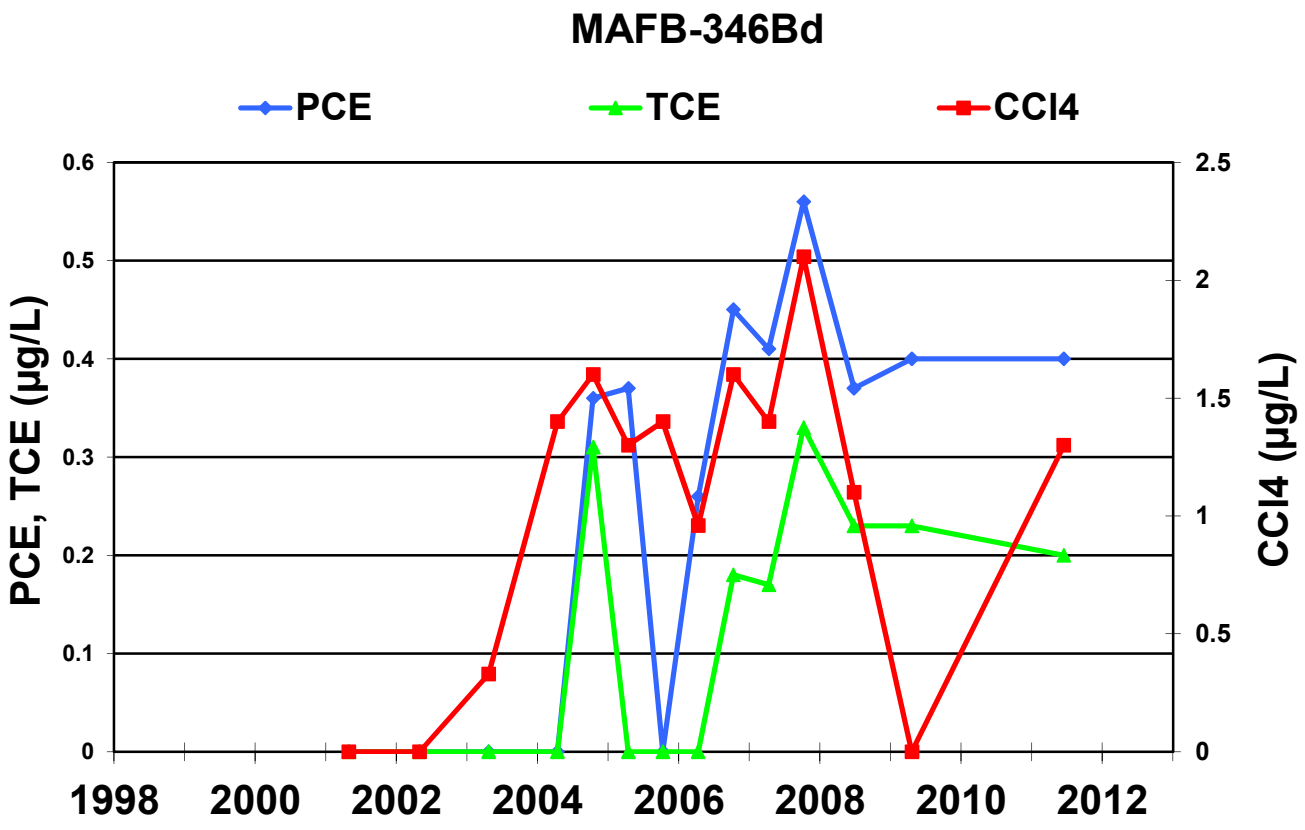

MAFB-341
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
140
120
100
80
60
40
20
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

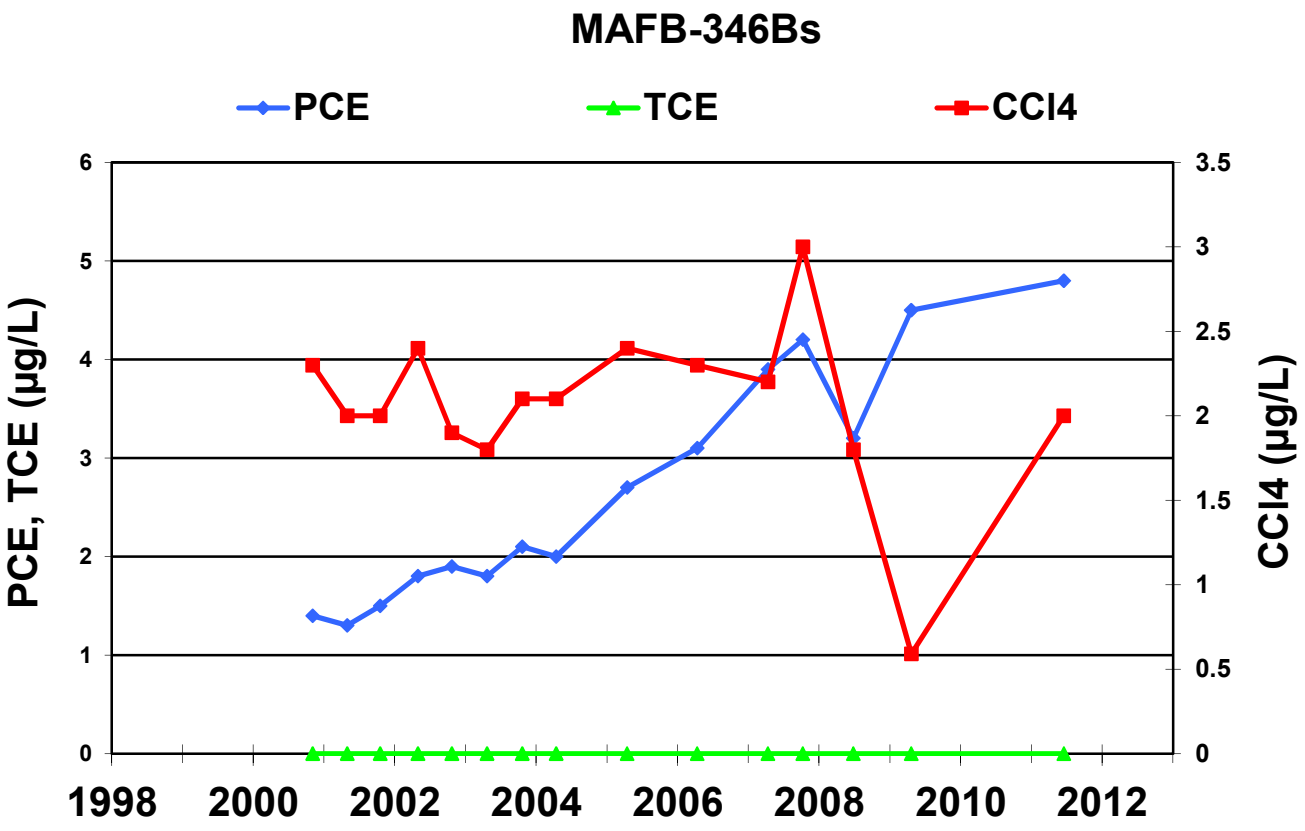

MAFB-342
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1400
1200
1000
800
600
400
200
0
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

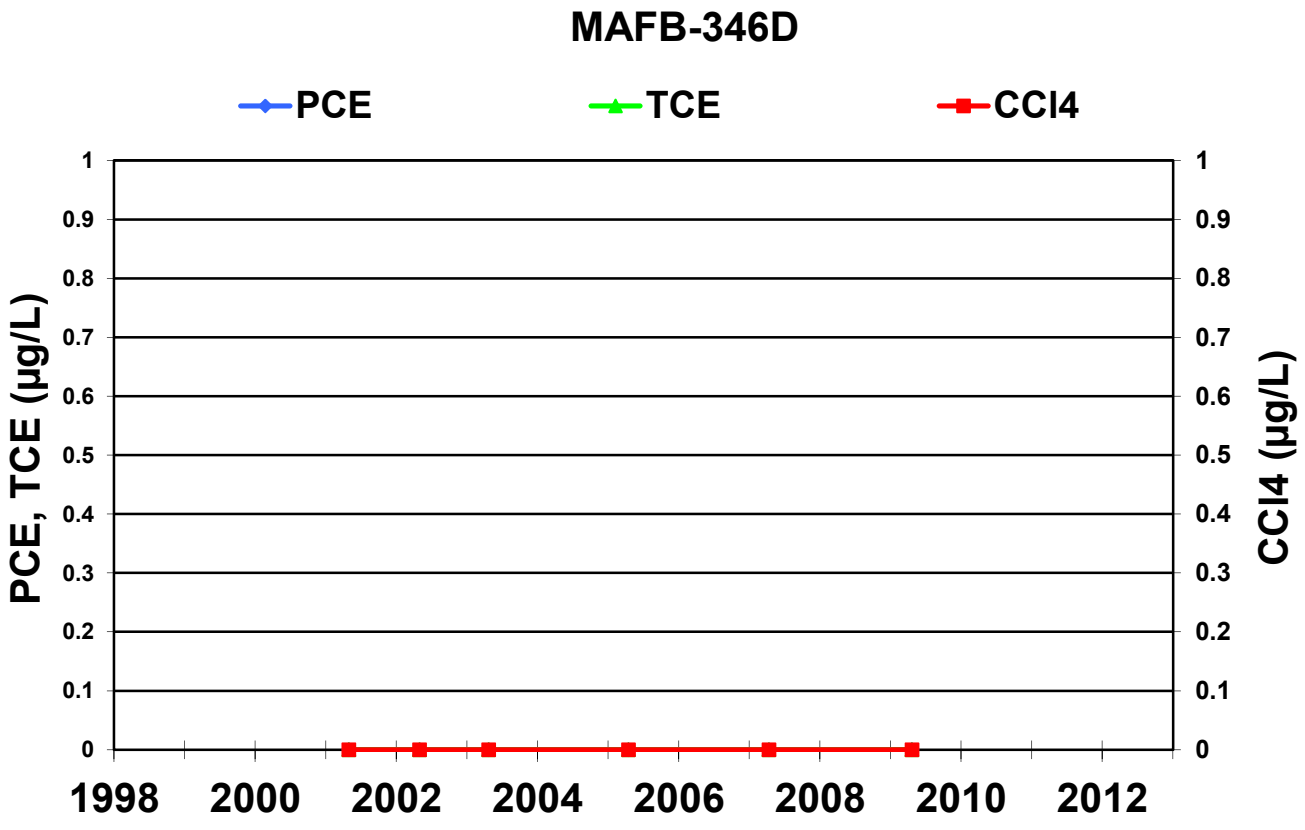

MAFB-343
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

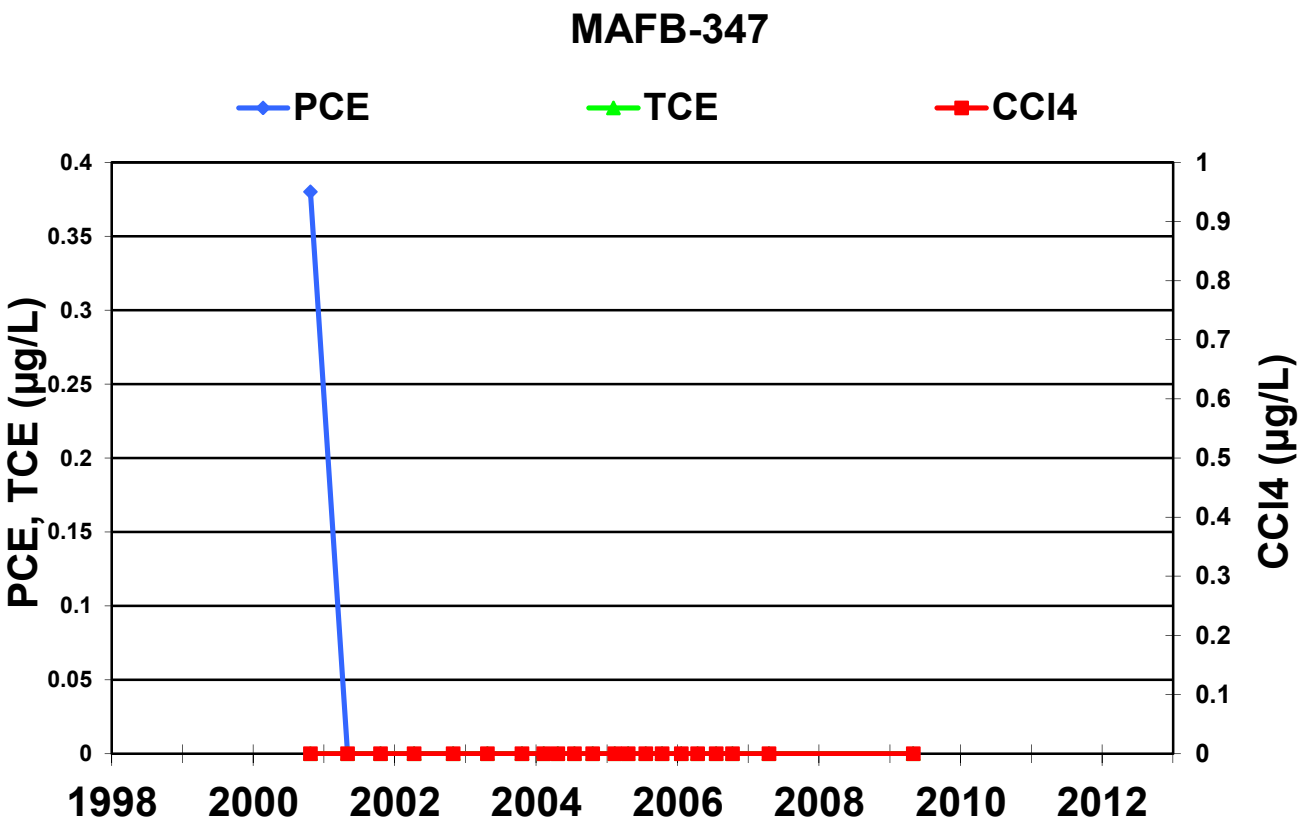

MAFB-344
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
40
35
30
25
20
15
10
5
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

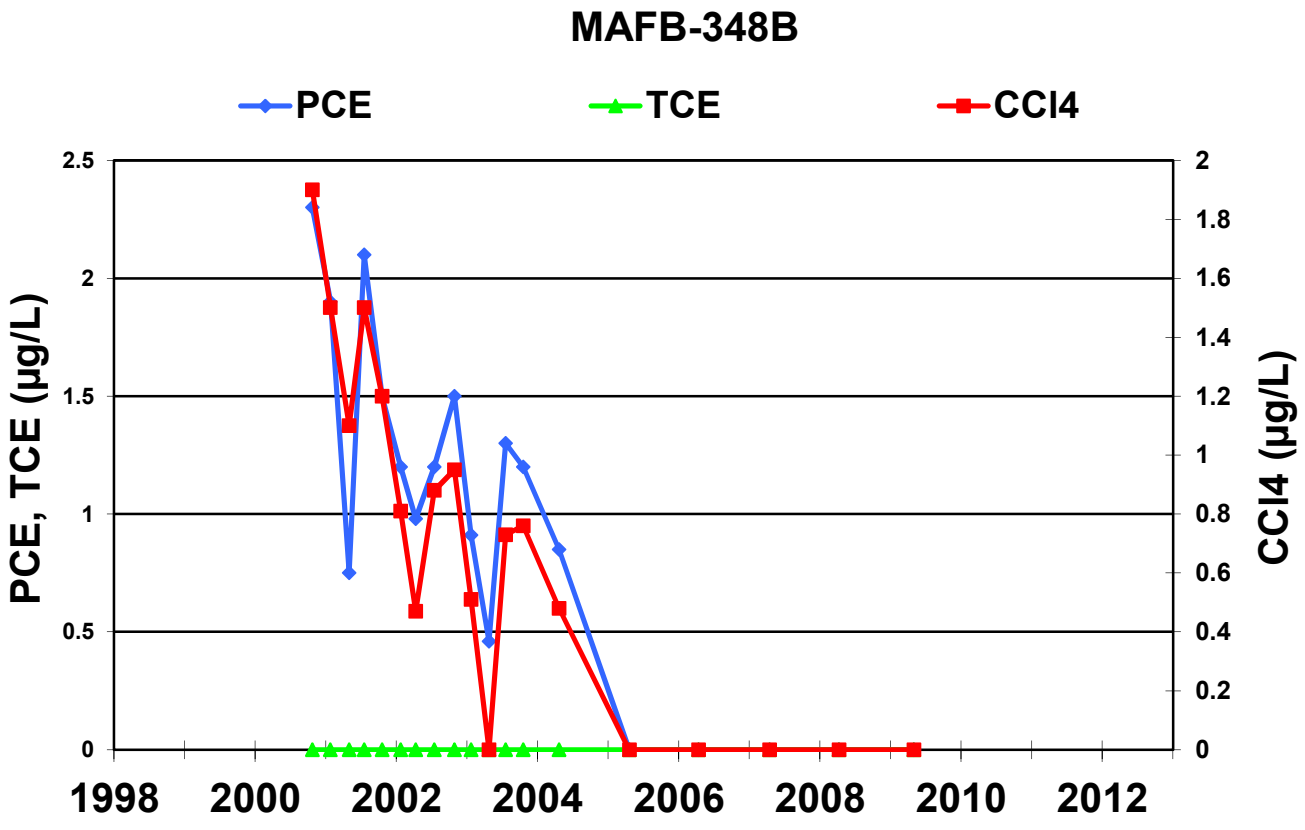

MAFB-345
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

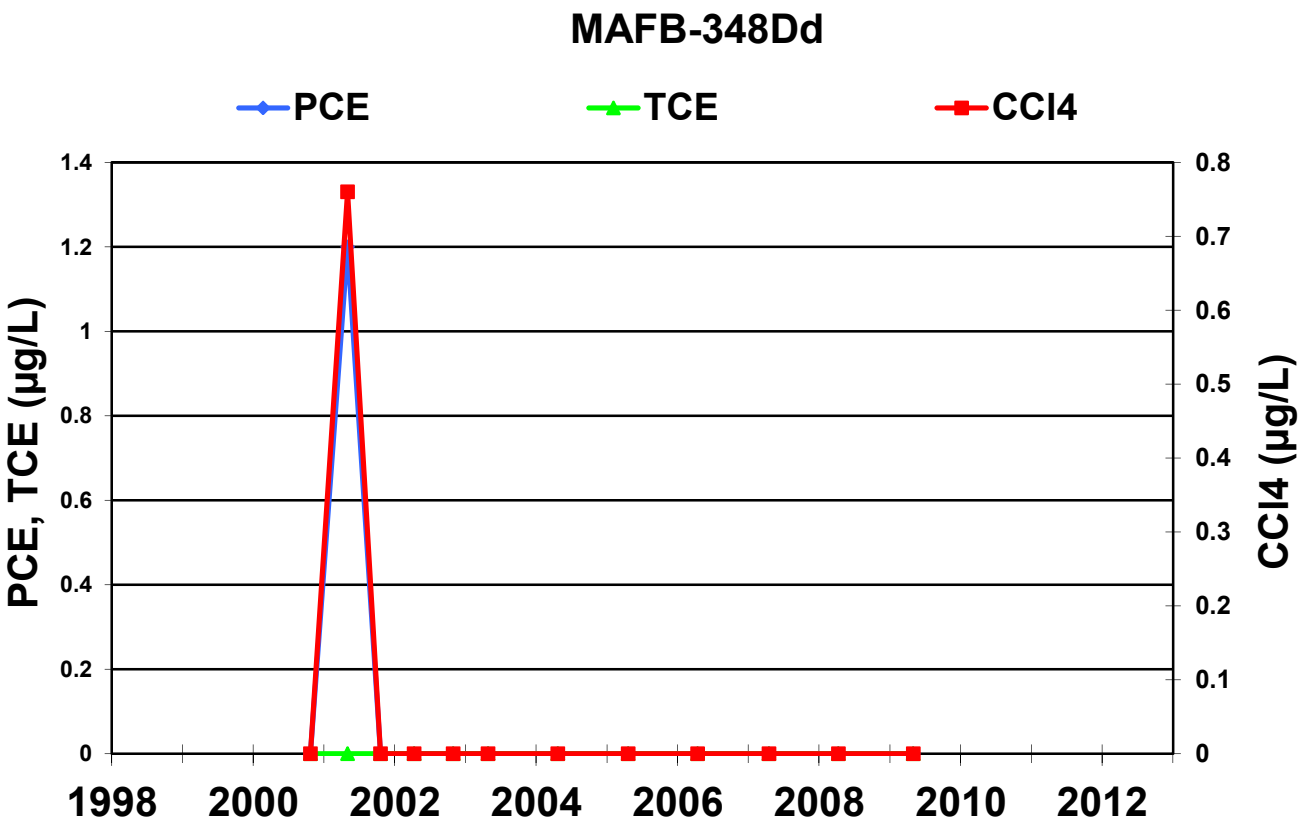

MAFB-346Bd
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

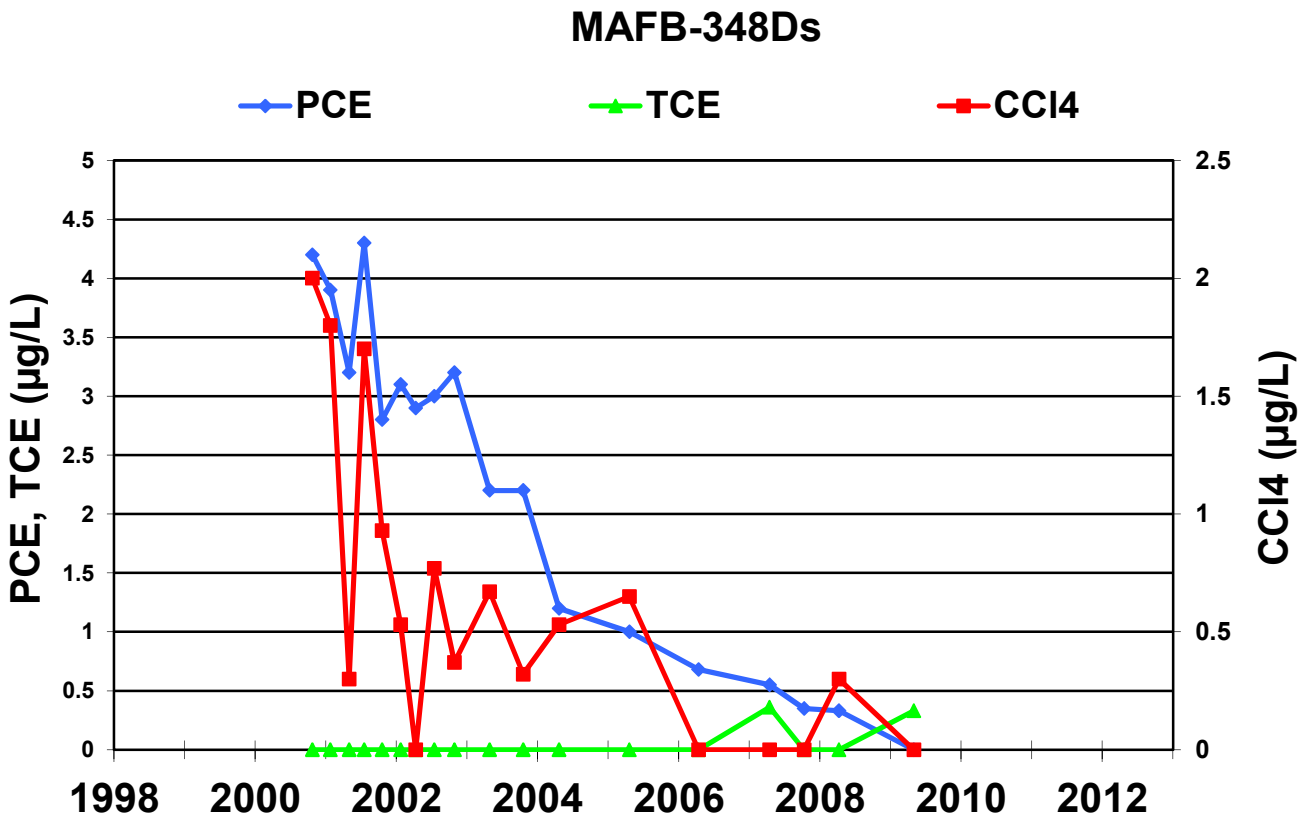

MAFB-346Bs
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
1
2
3
4
5
6
0
0.5
1
1.5
2
2.5
3
3.5
1998
2000
2002
2004
2006
2008
2010
2012

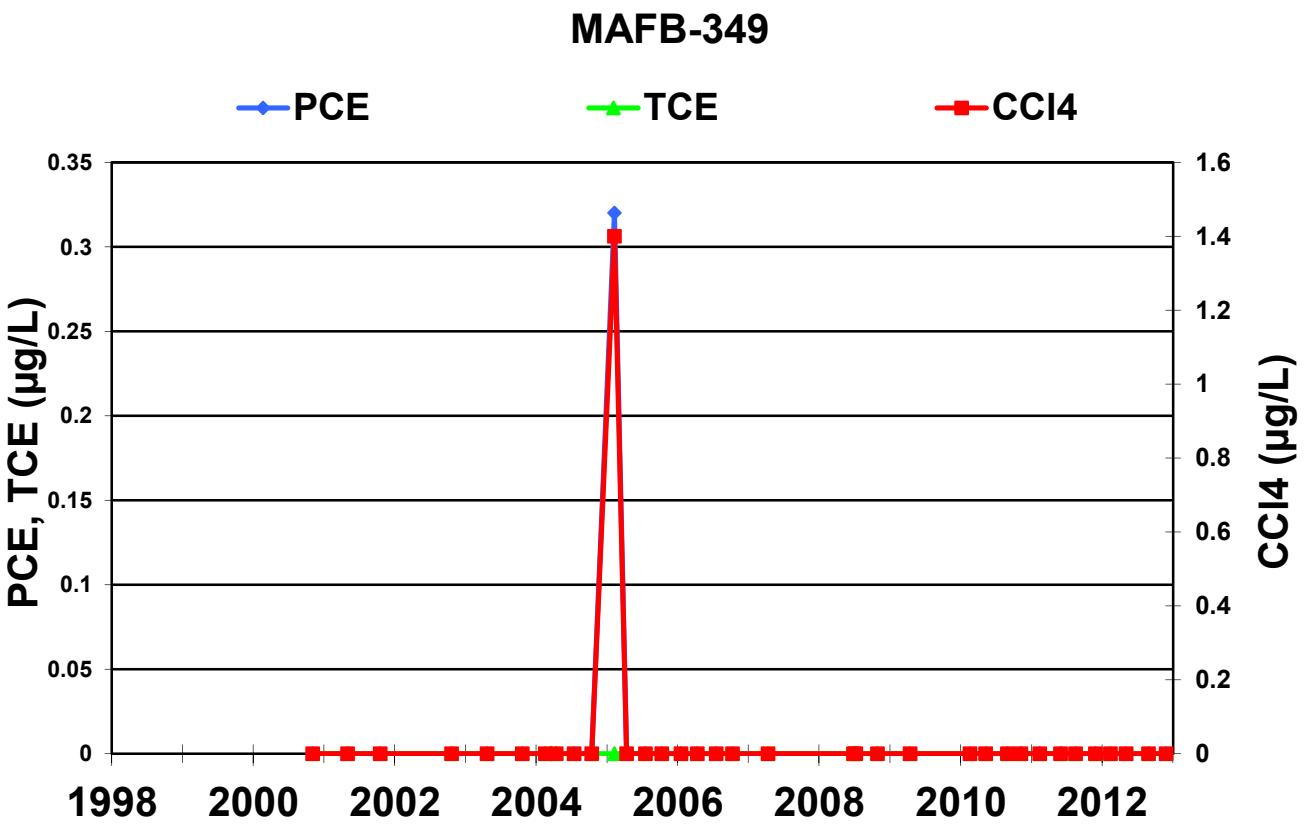

MAFB-346D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1998
2000
2002
2004
2006
2008
2010
2012

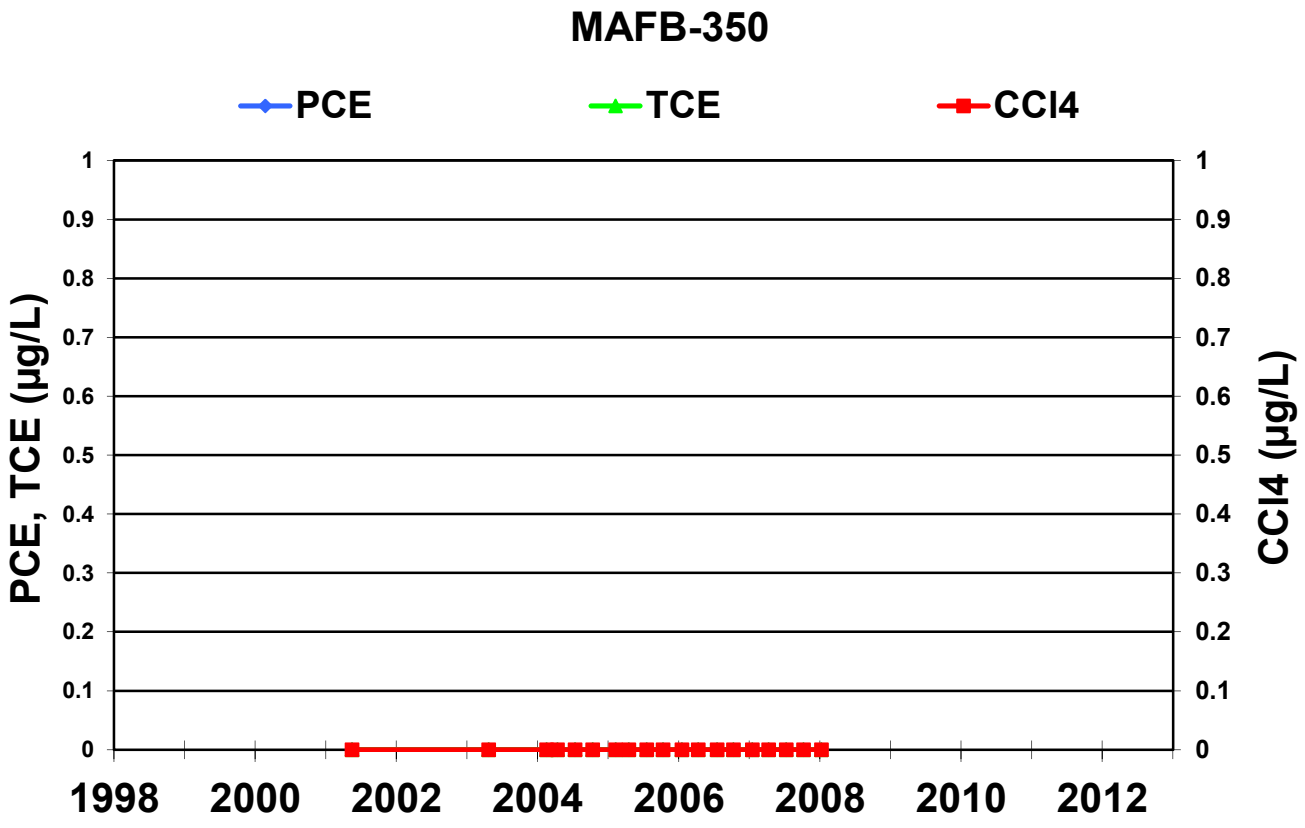

MAFB-347
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

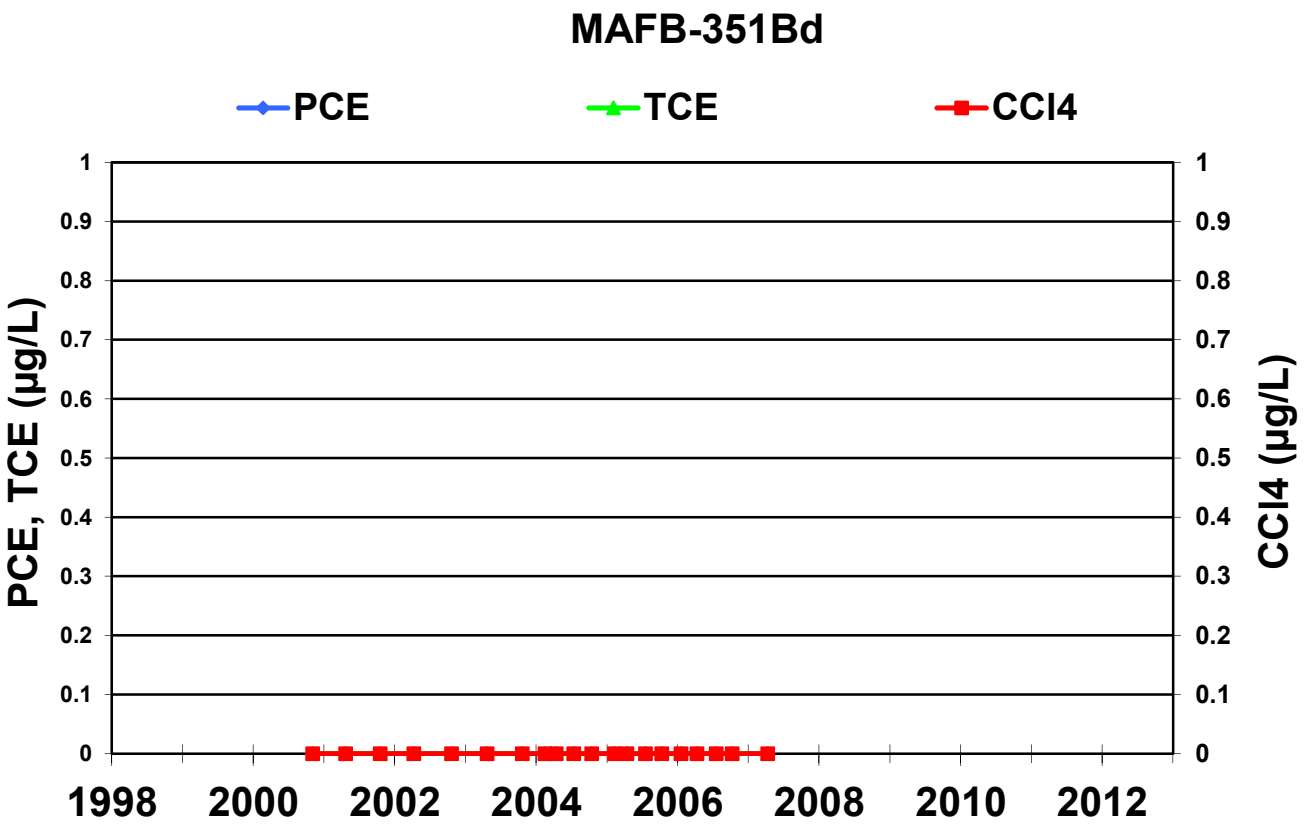

MAFB-348B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
2.5
2
1.5
1
0.5
0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

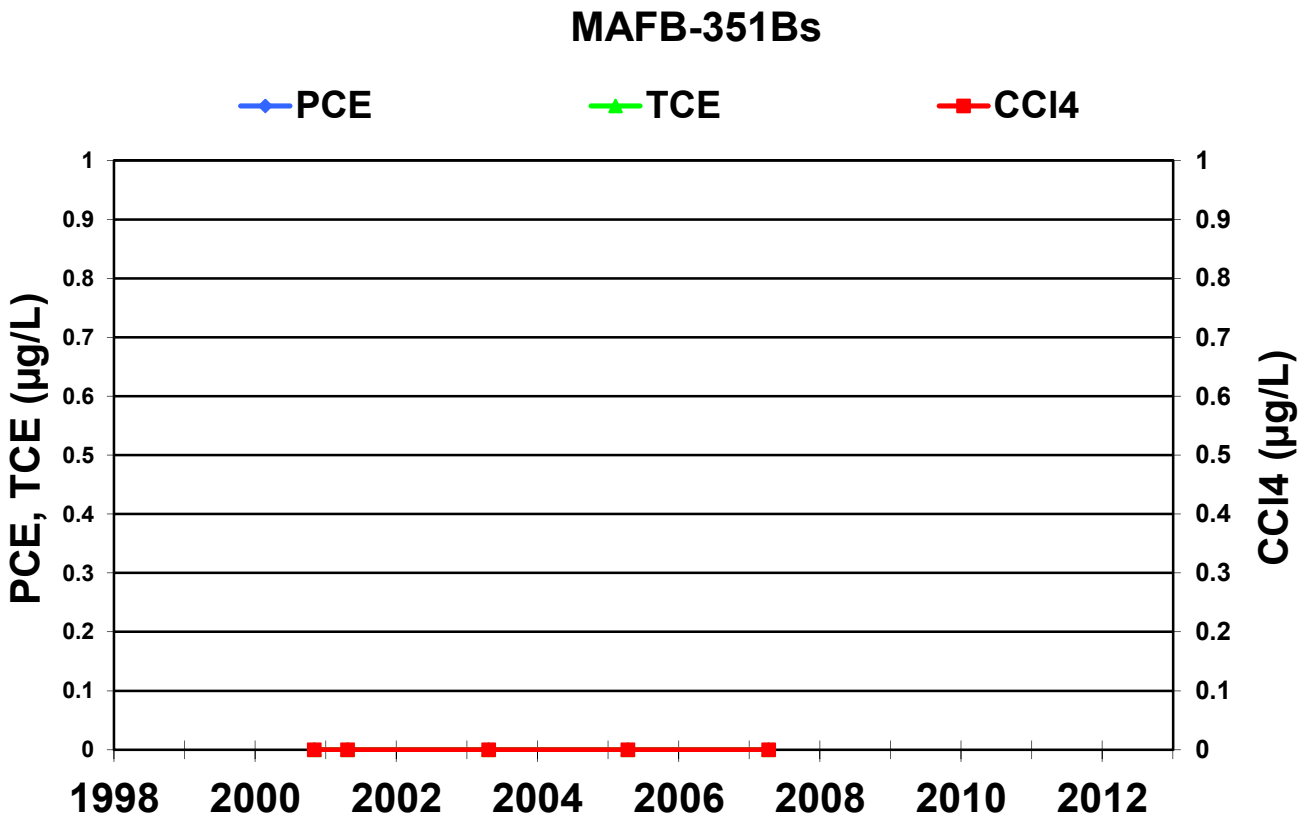

MAFB-348Dd
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

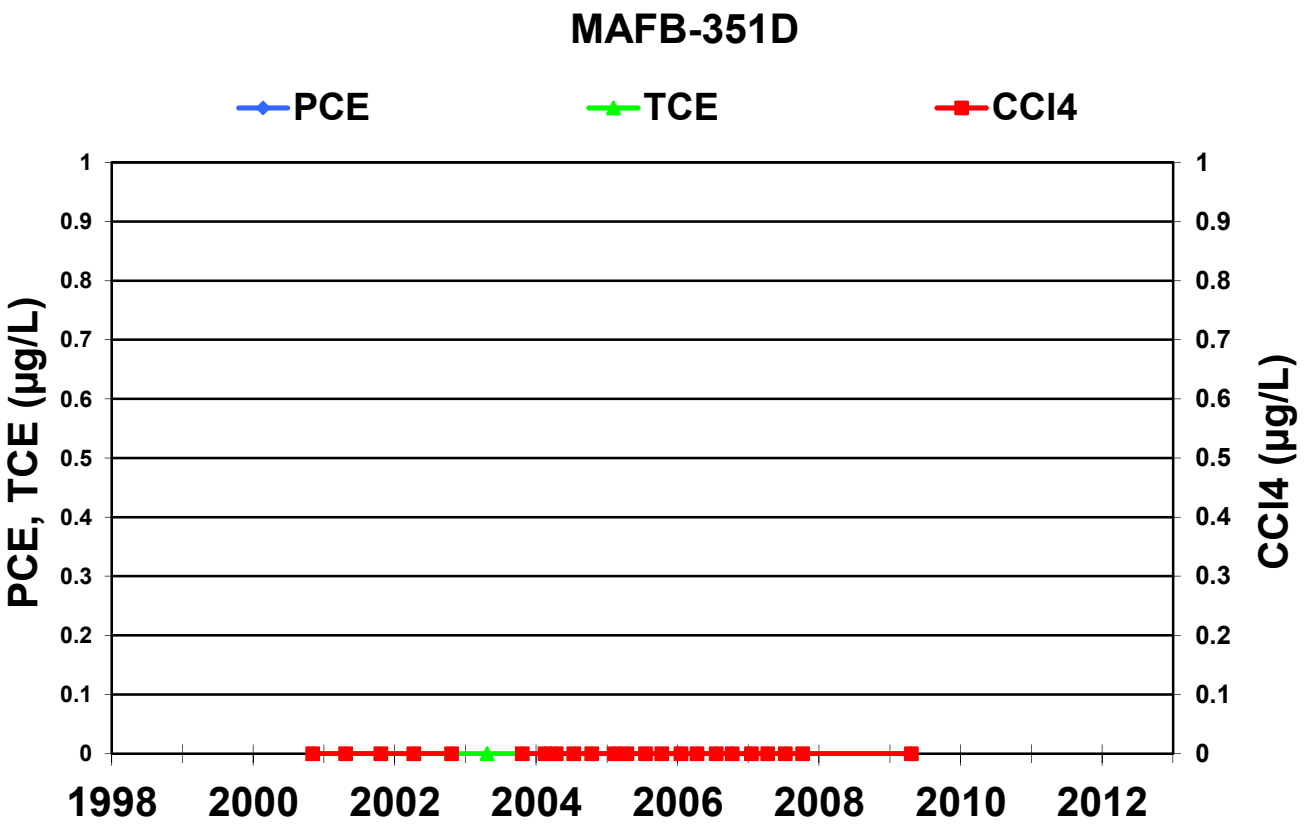

MAFB-348Ds
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

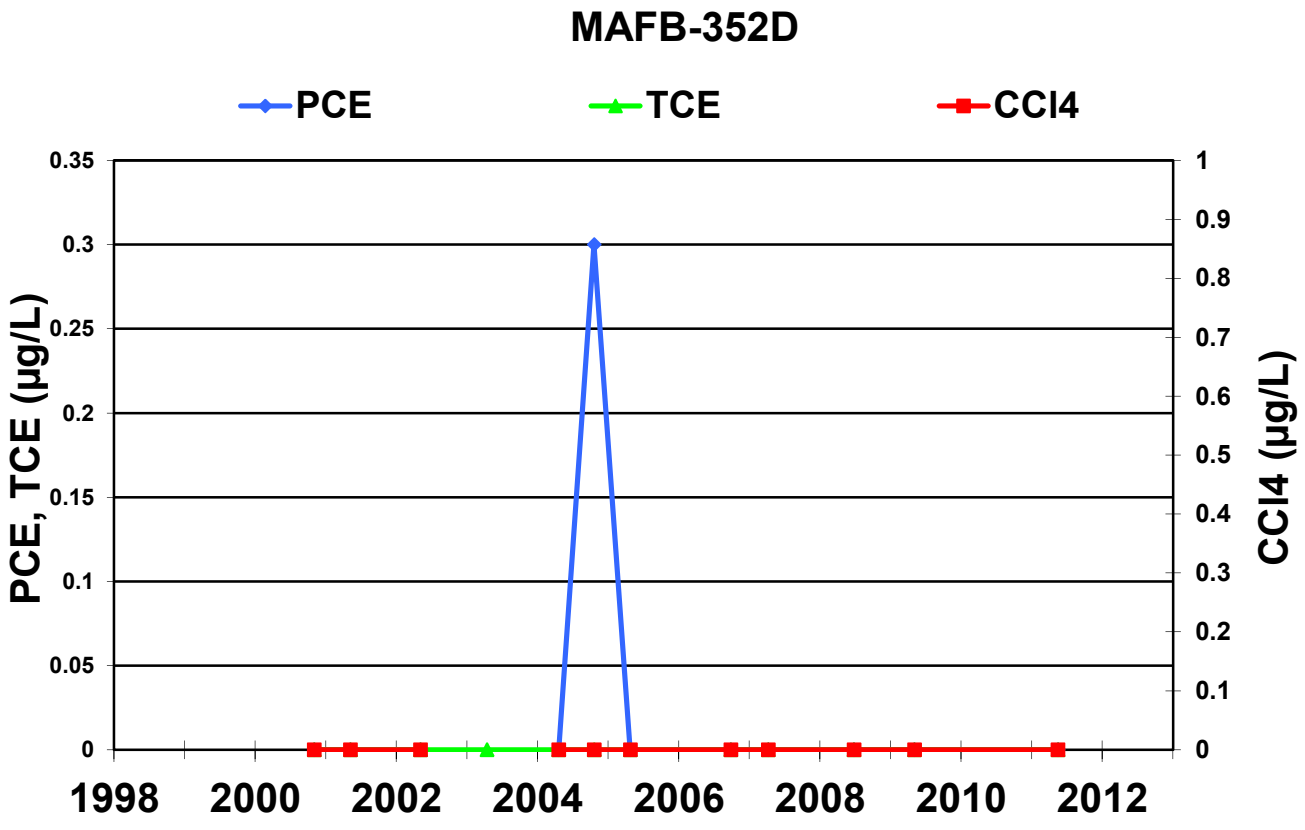

MAFB-349
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

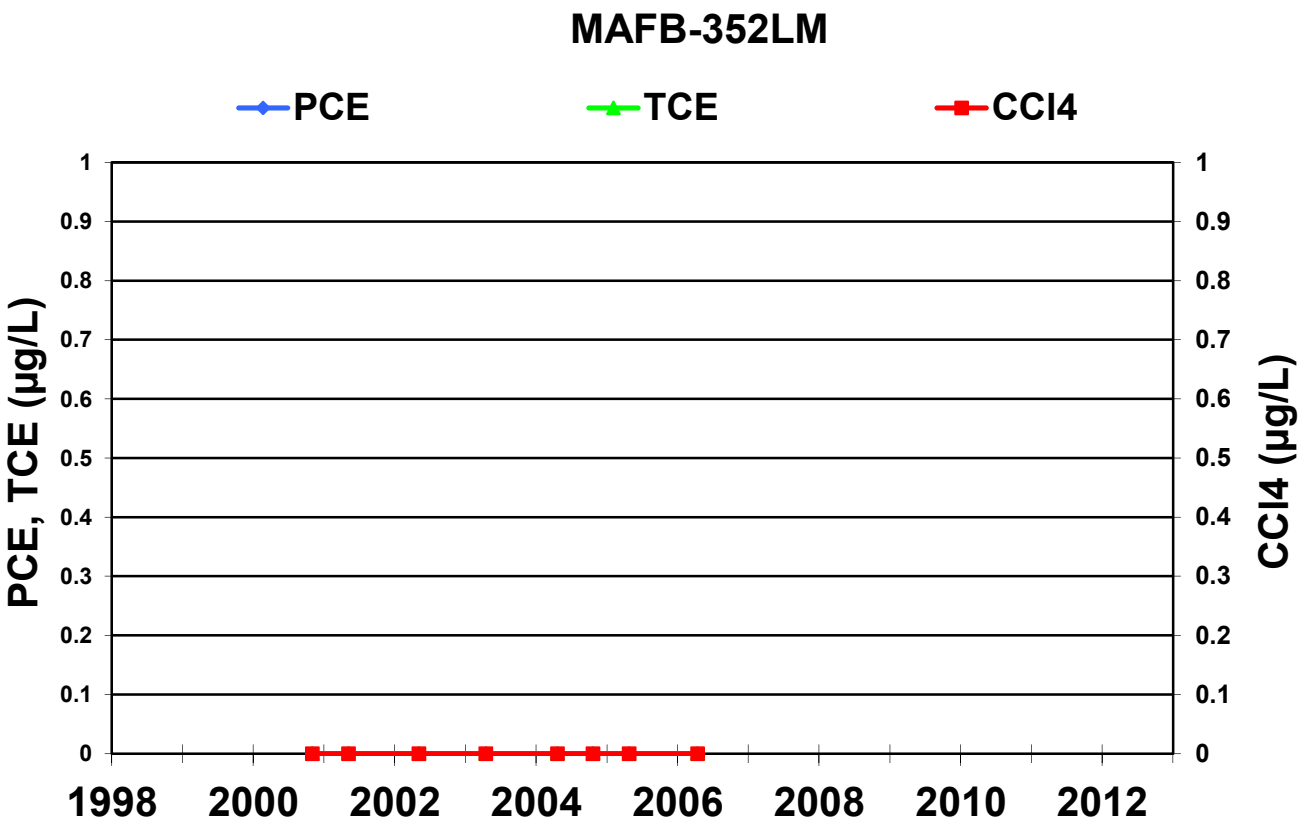

MAFB-350
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

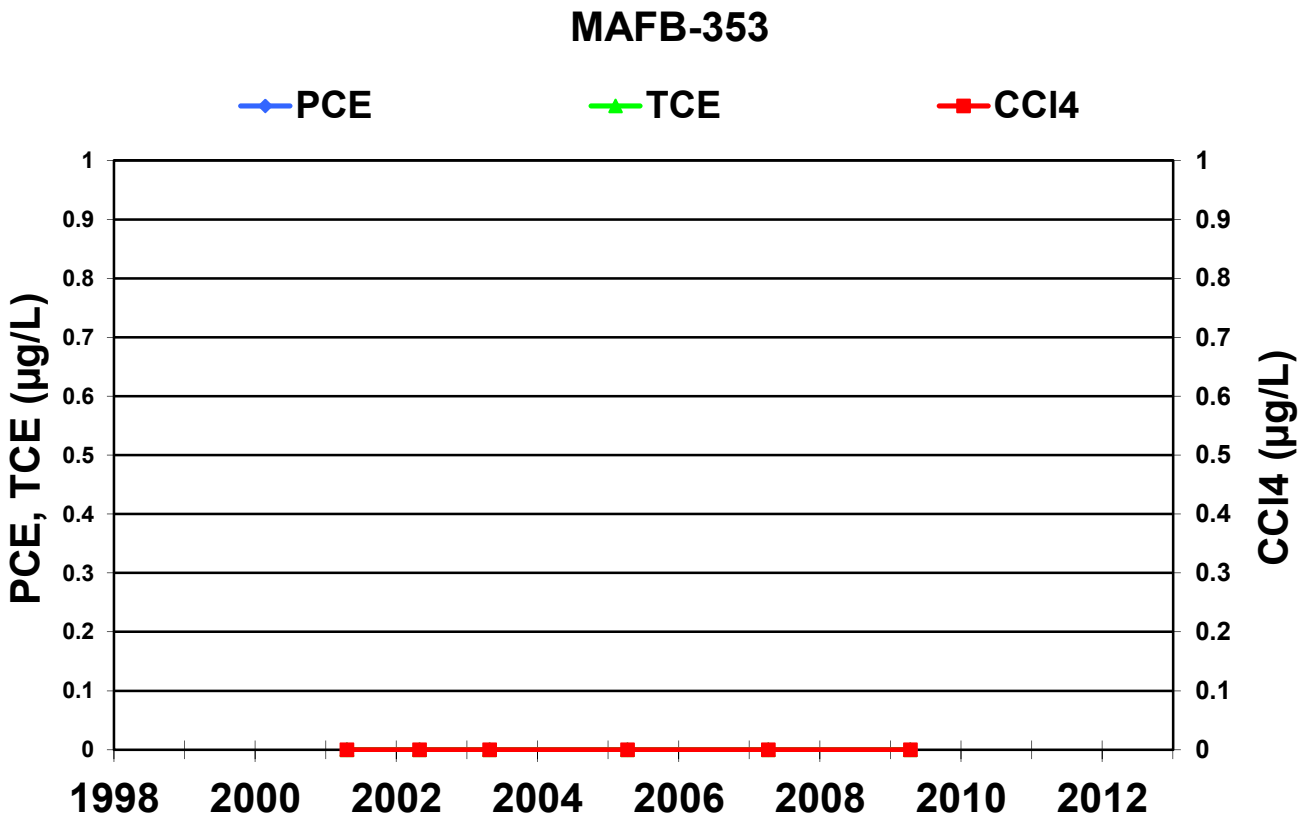

MAFB-351Bd
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

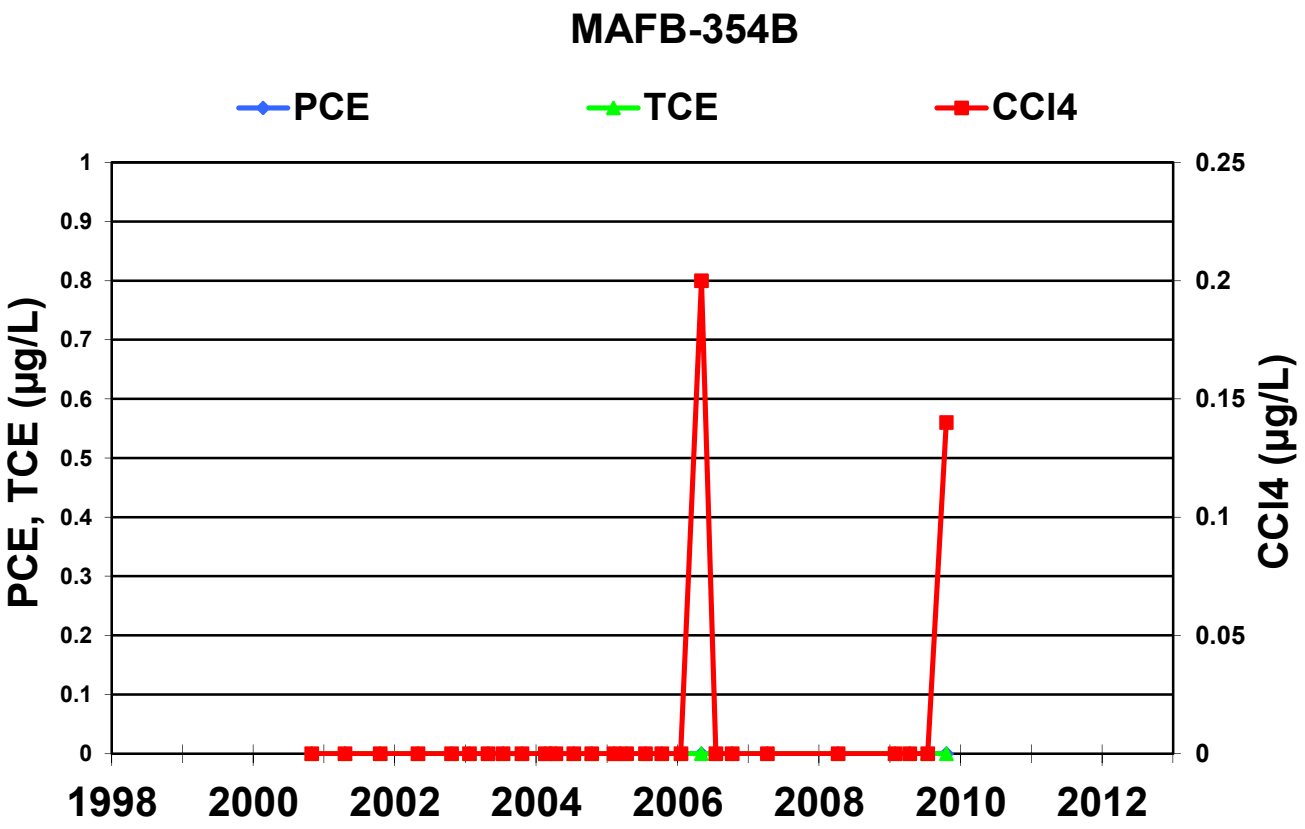

MAFB-351Bs
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

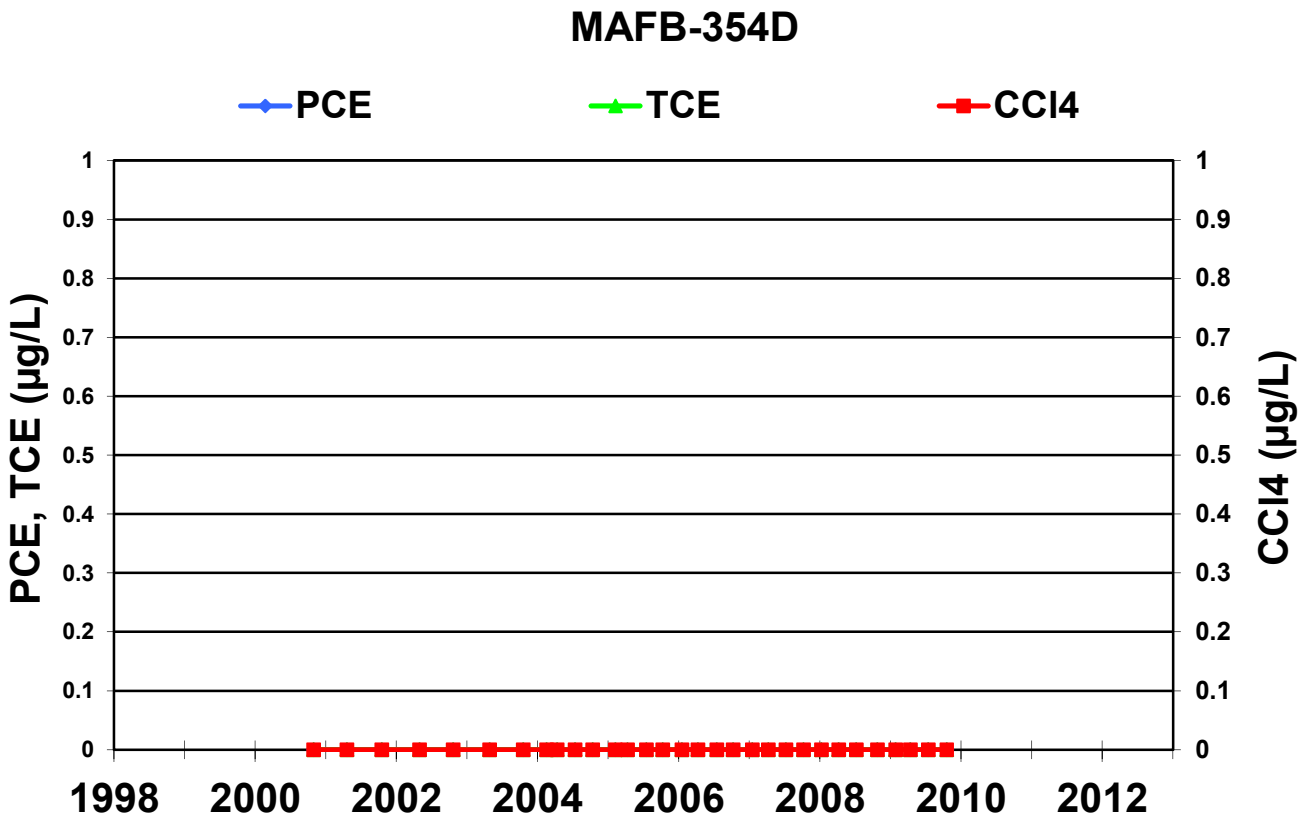

MAFB-351D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

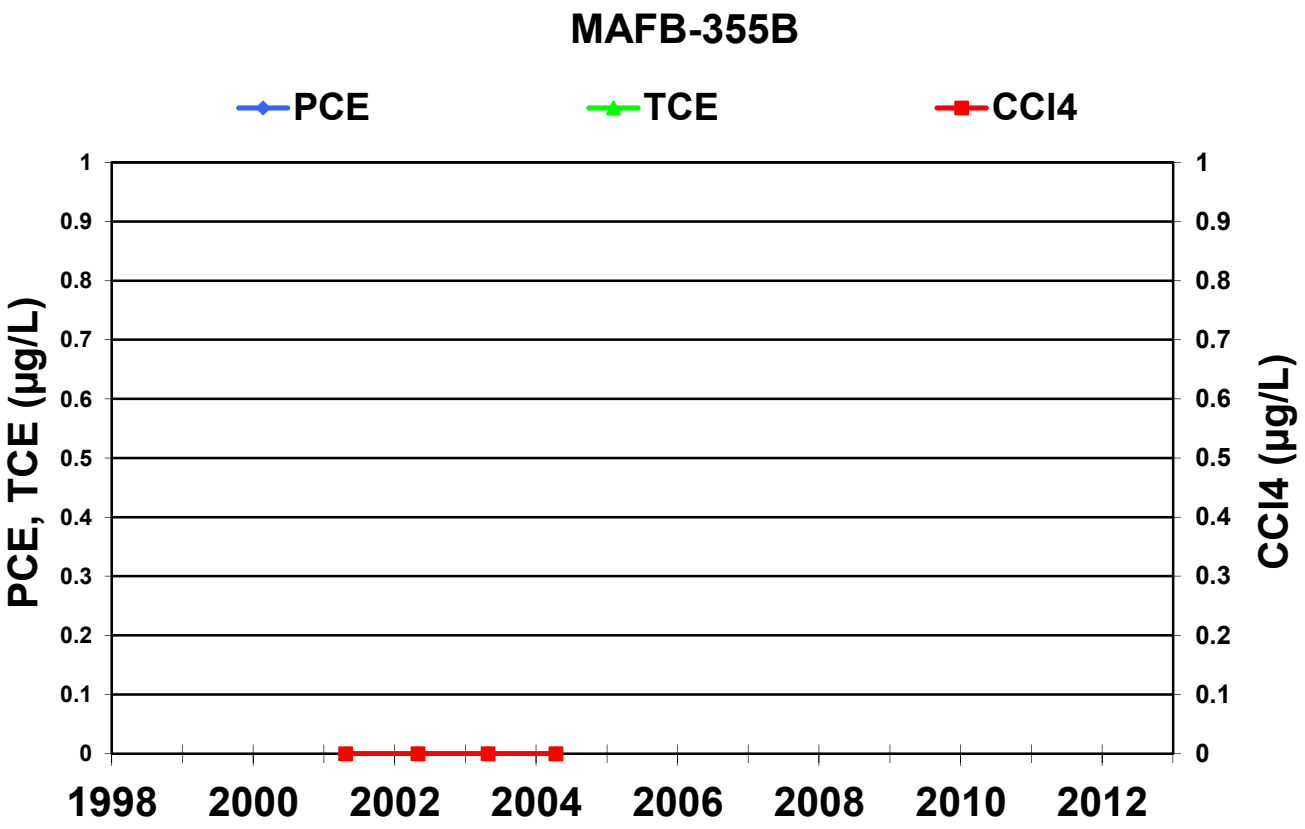

MAFB-352D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

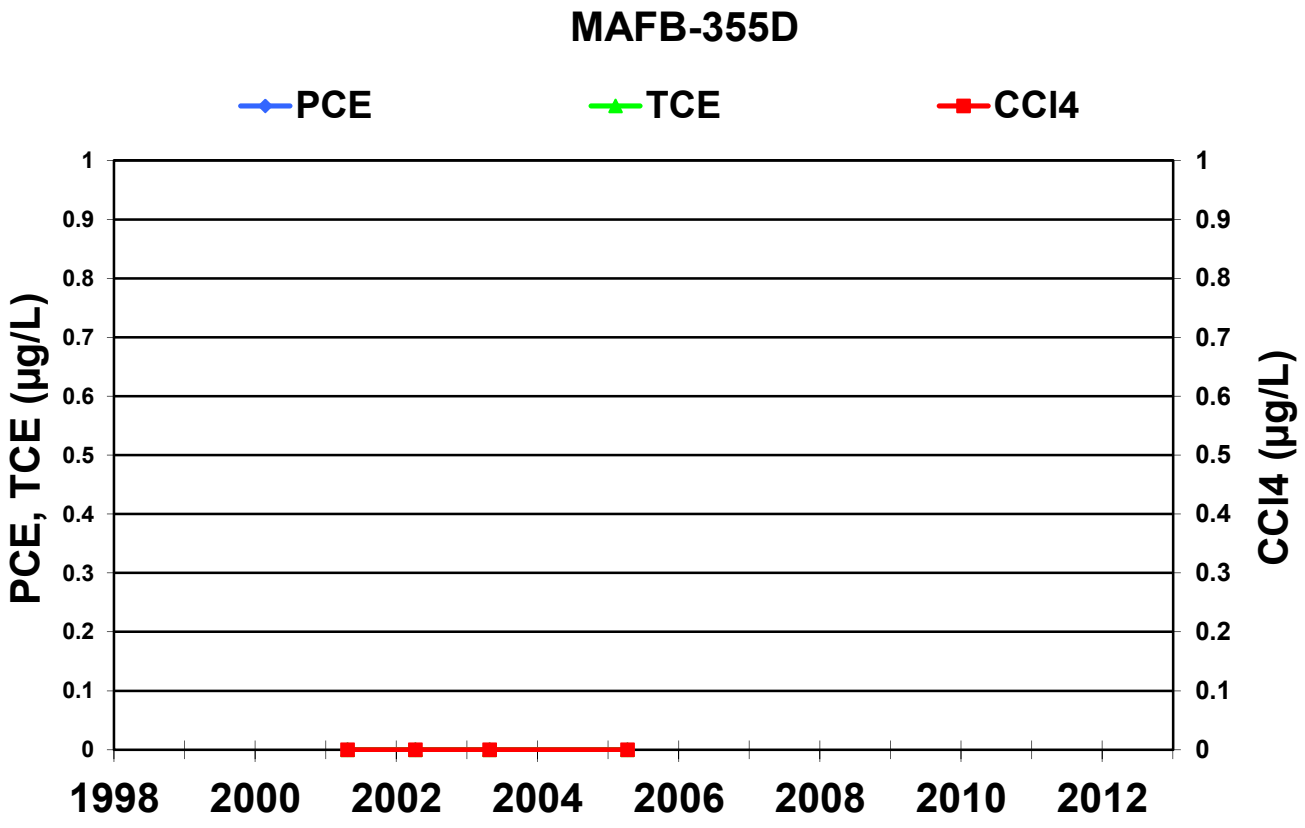

MAFB-352LM
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

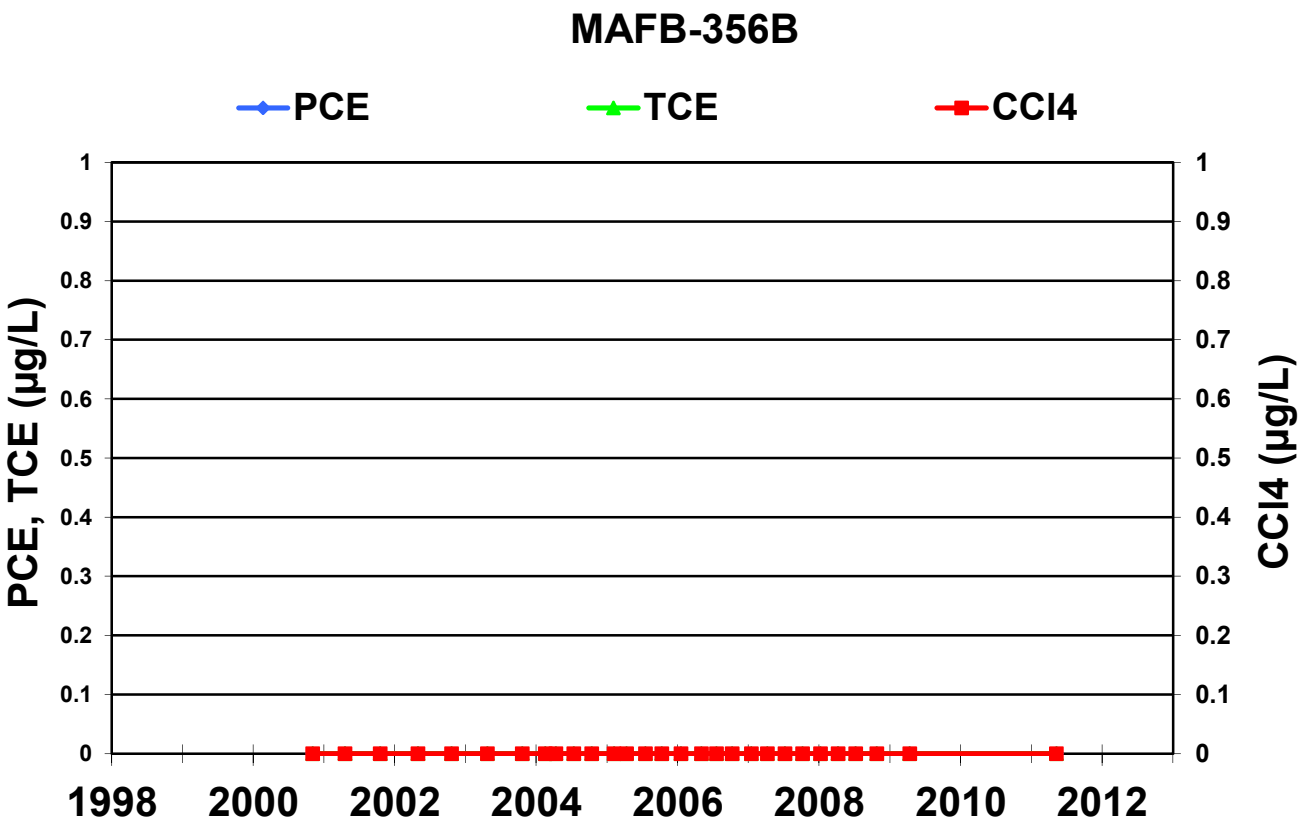

MAFB-353
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

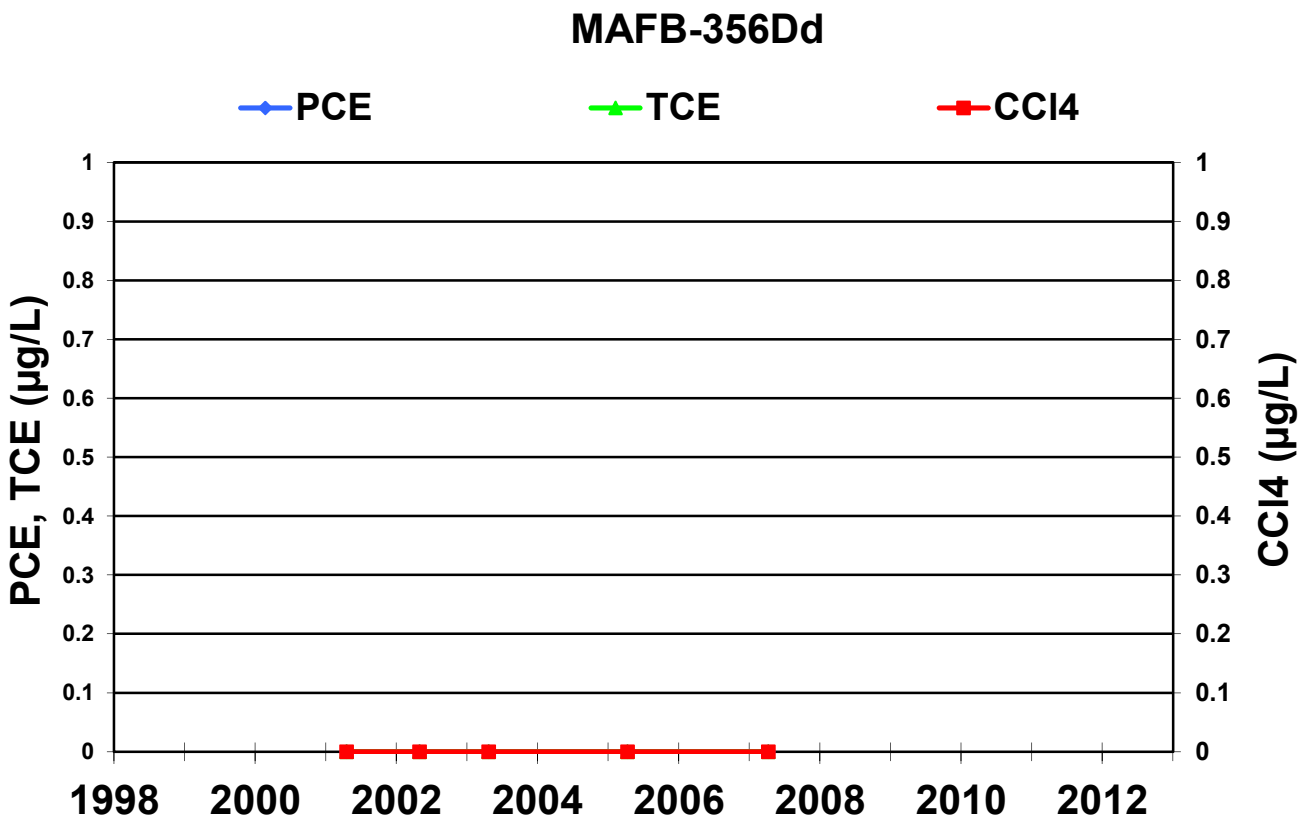

MAFB-354B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

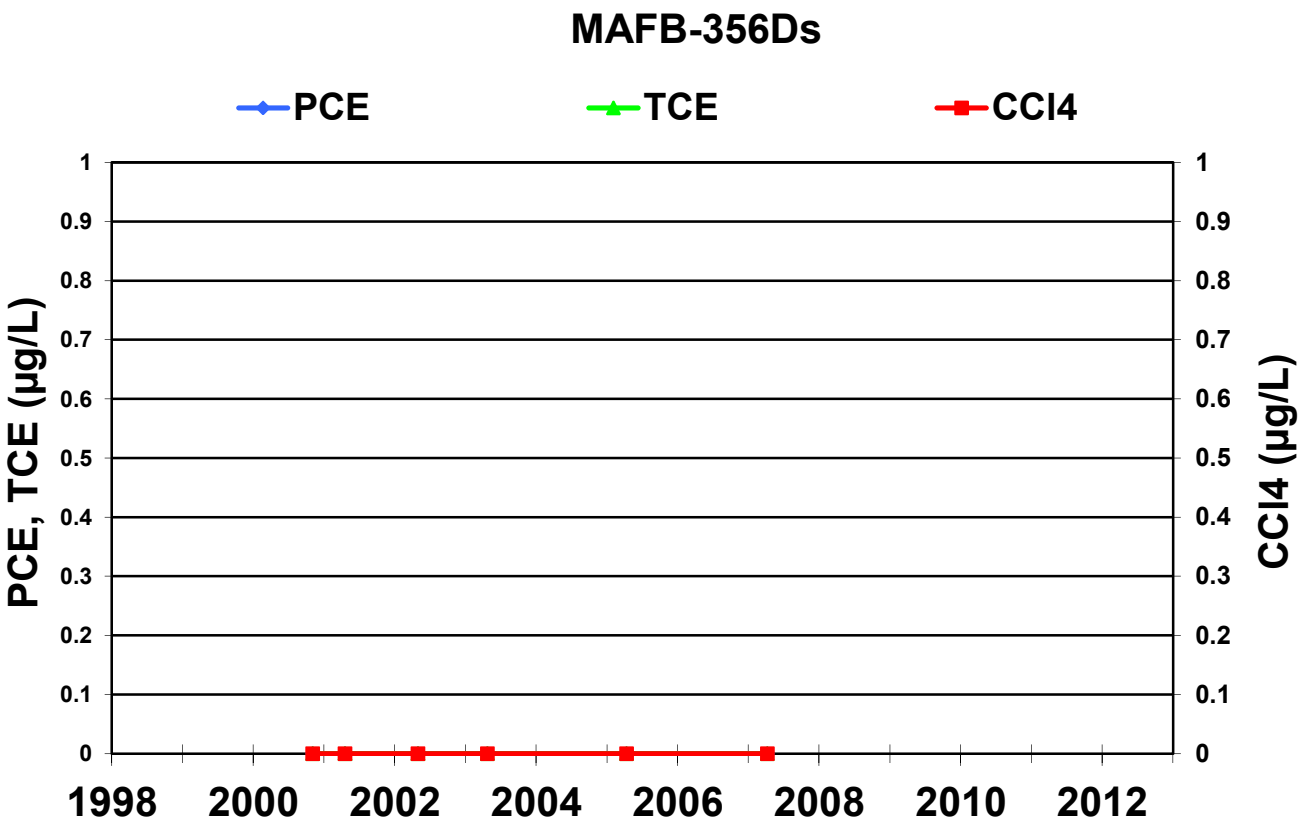

MAFB-354D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

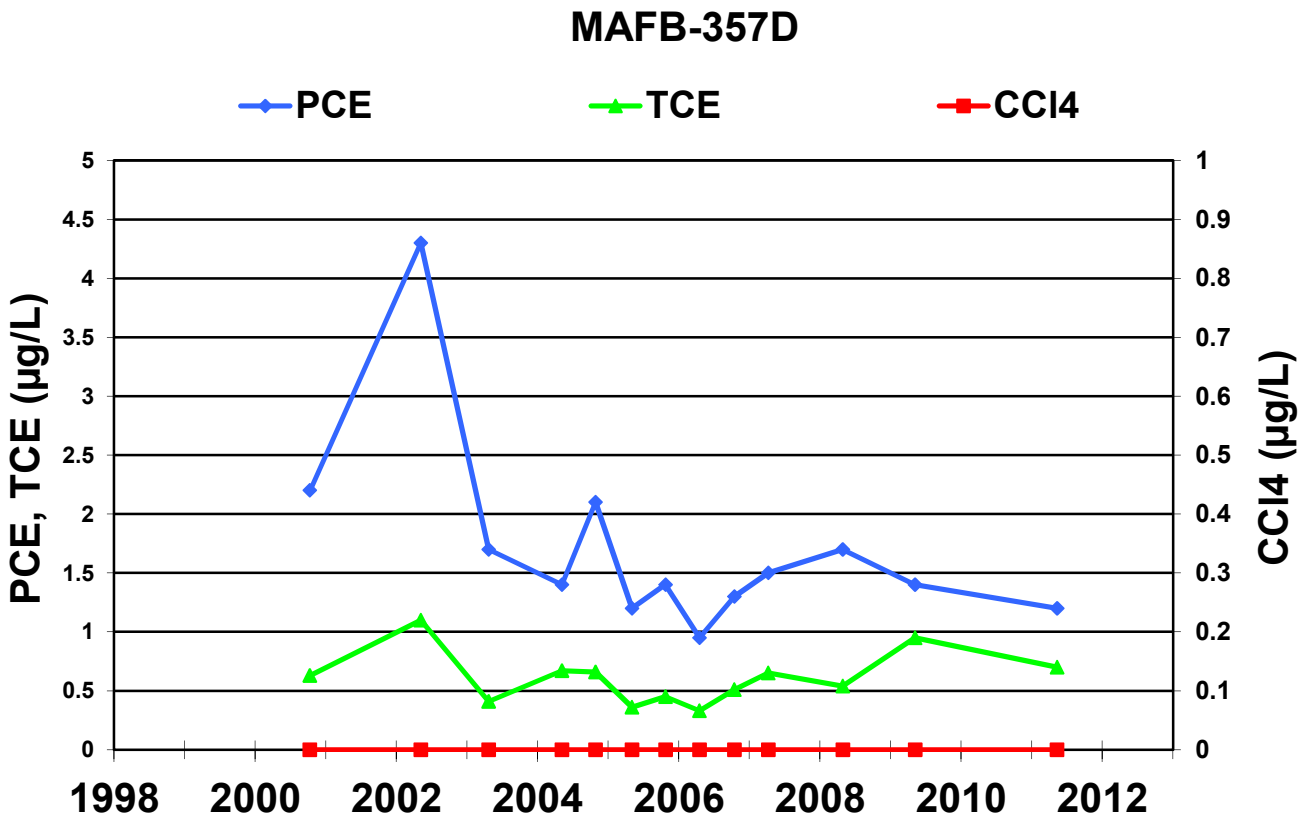

MAFB-355B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

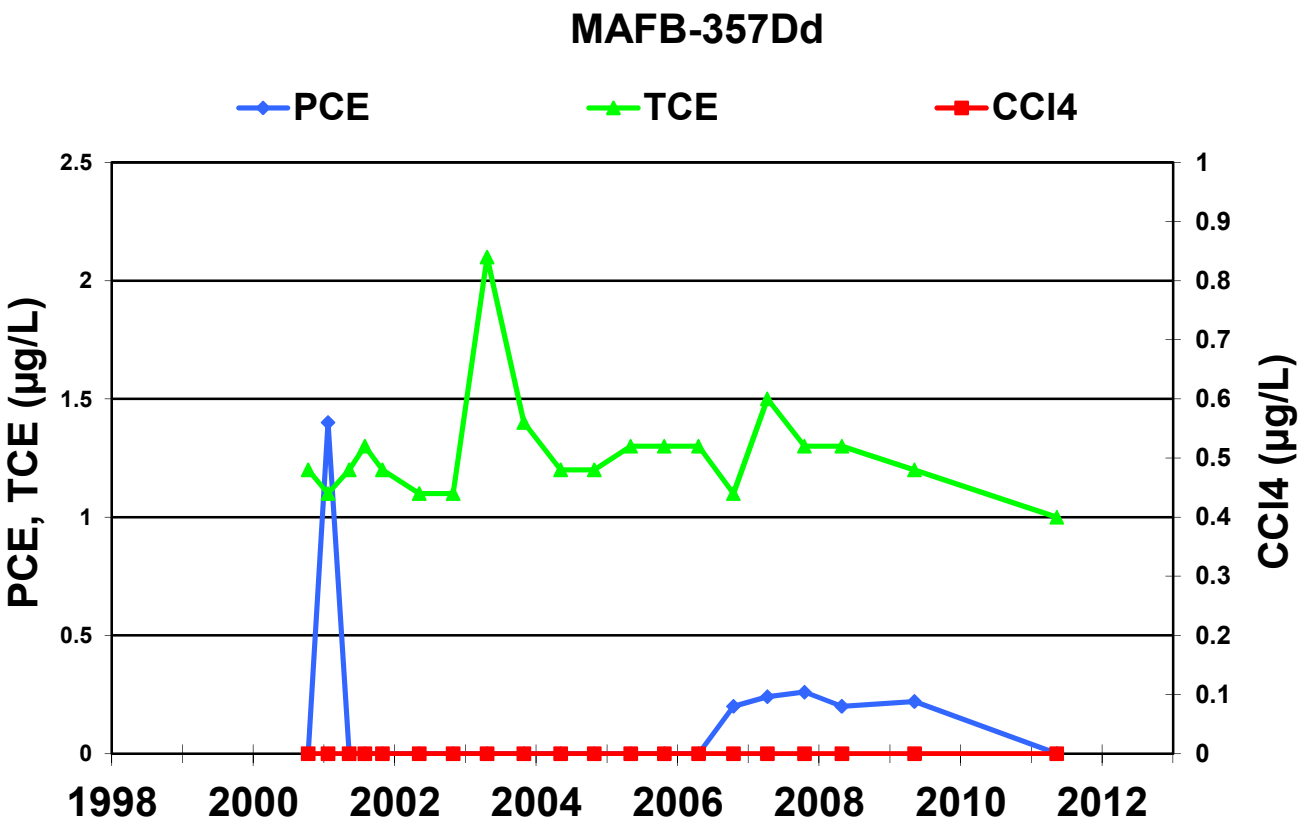

MAFB-355D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

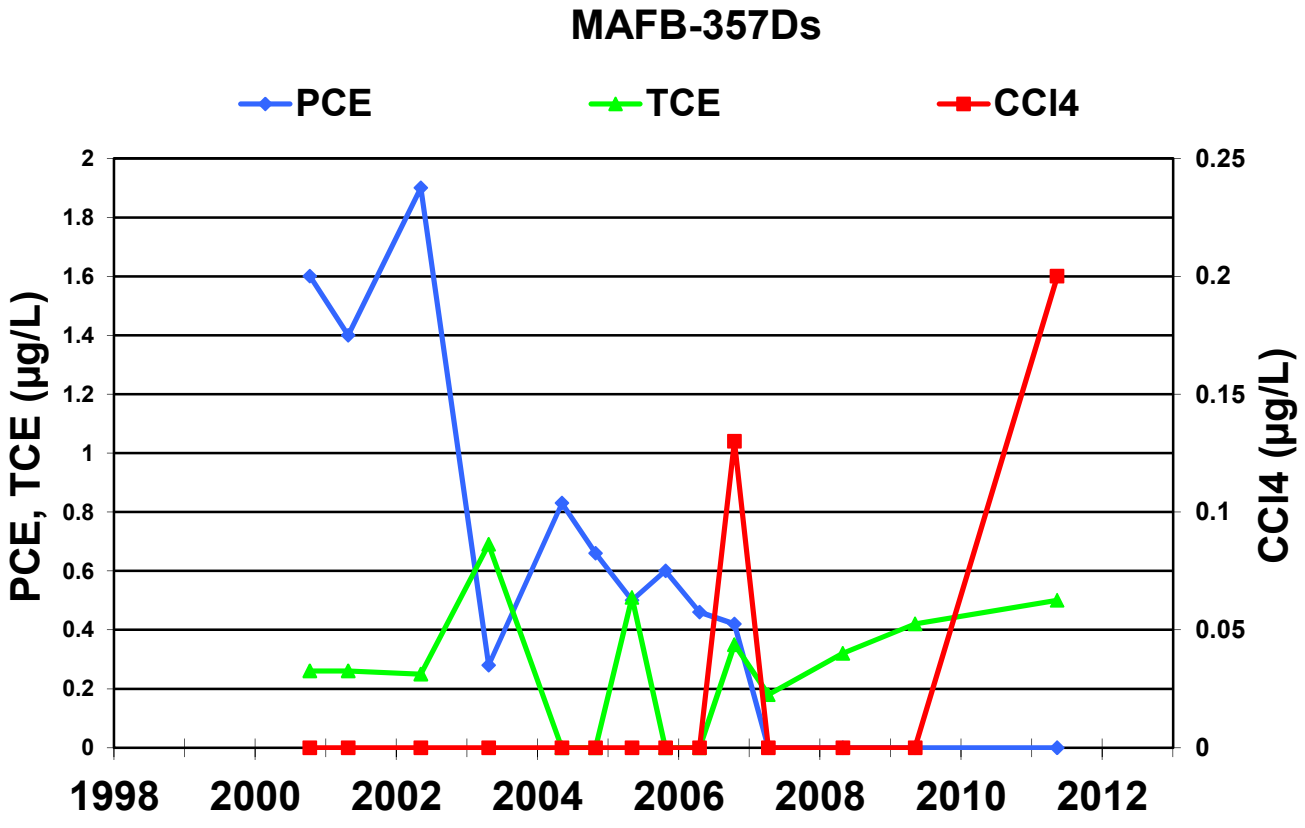

MAFB-356B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

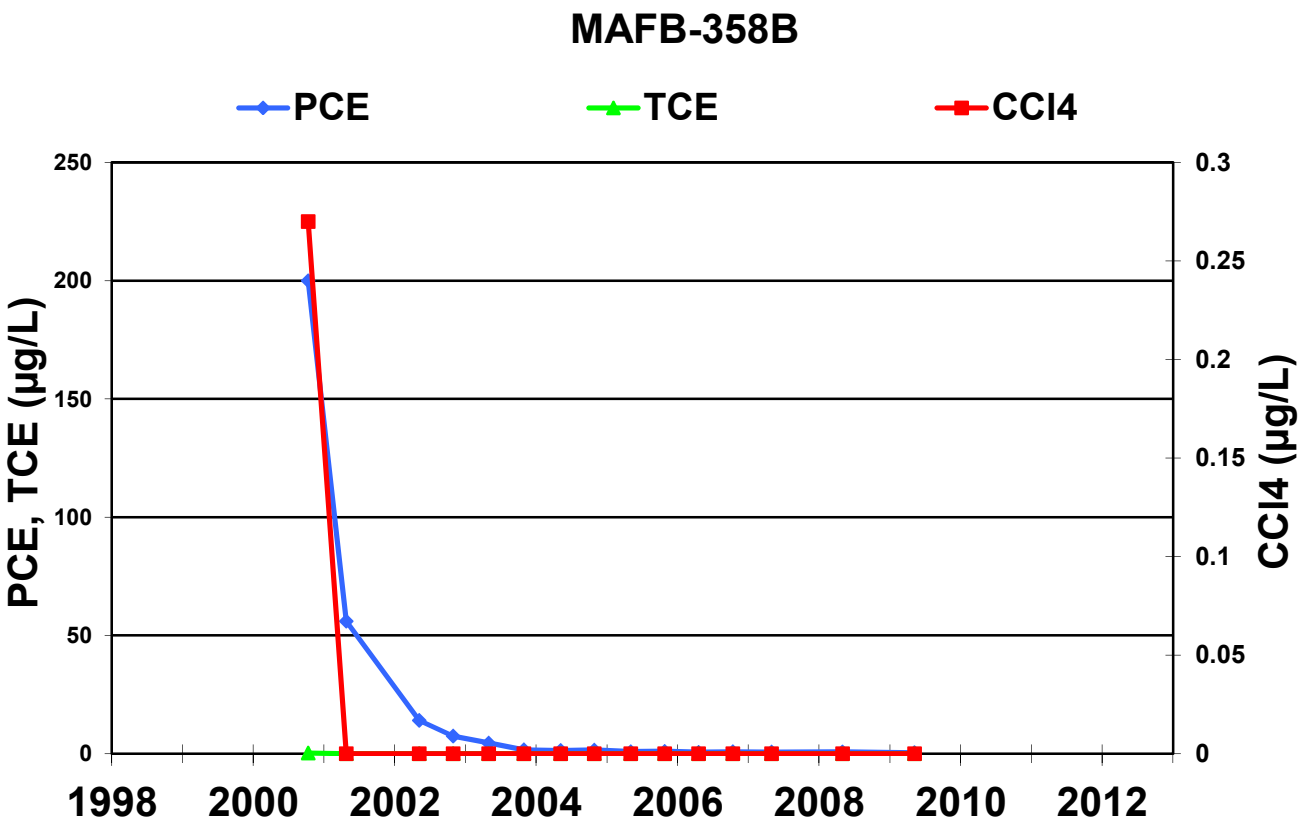

MAFB-356Dd
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

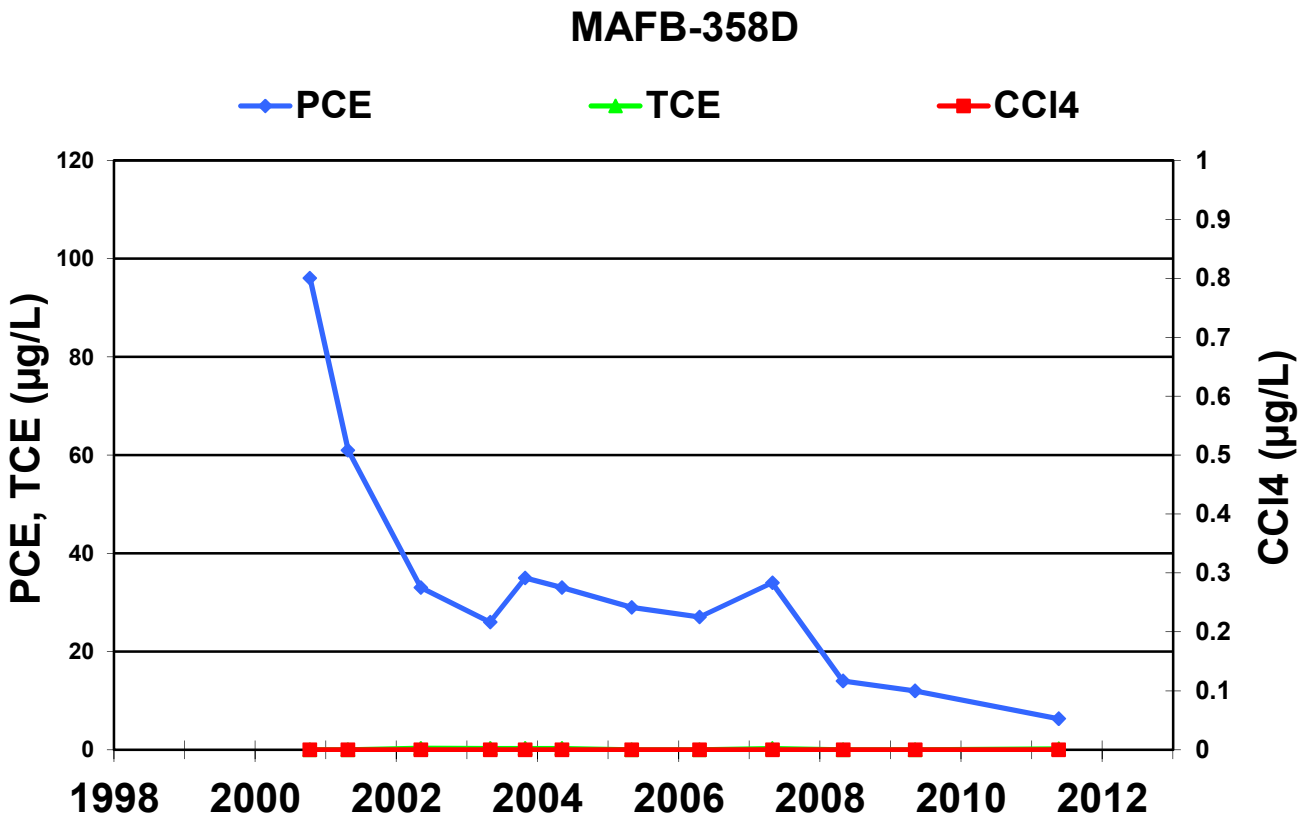

MAFB-356Ds
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

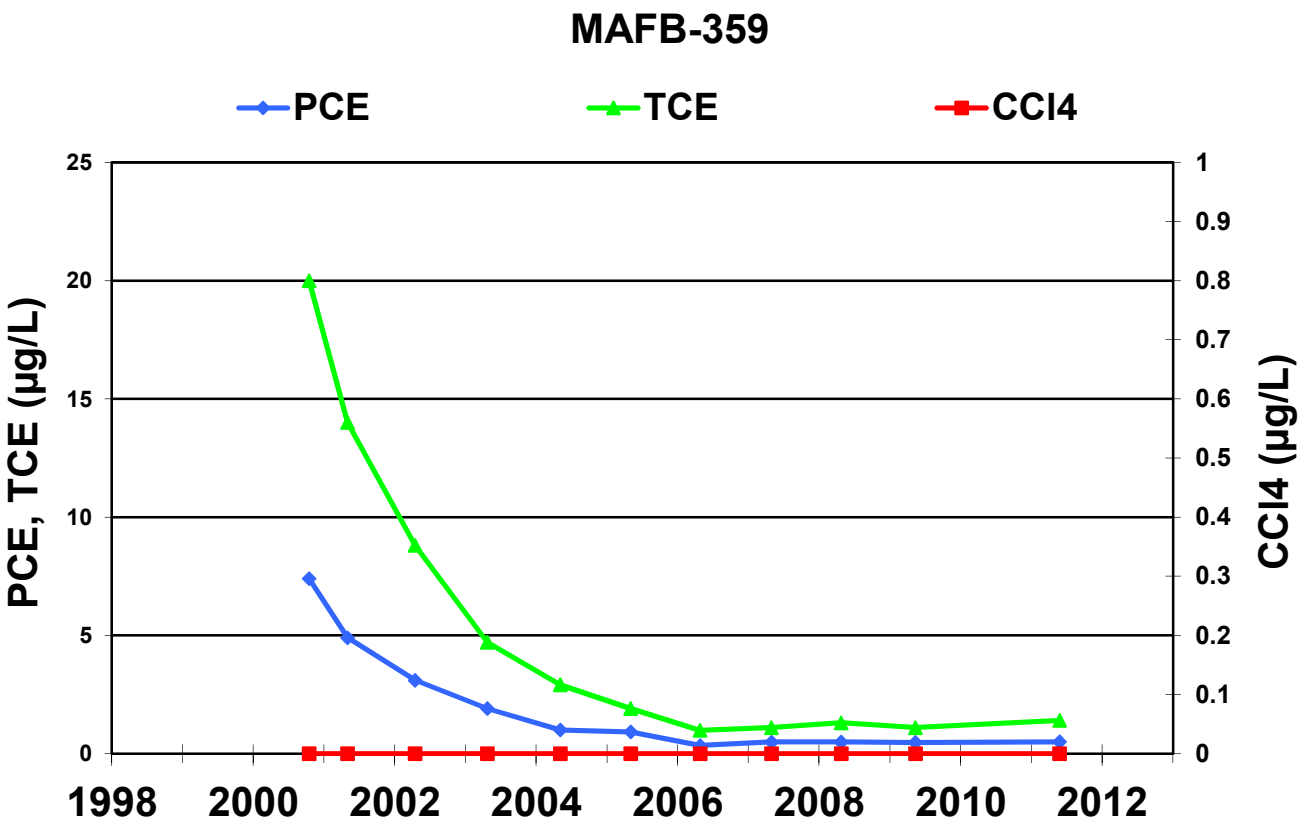

MAFB-357D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

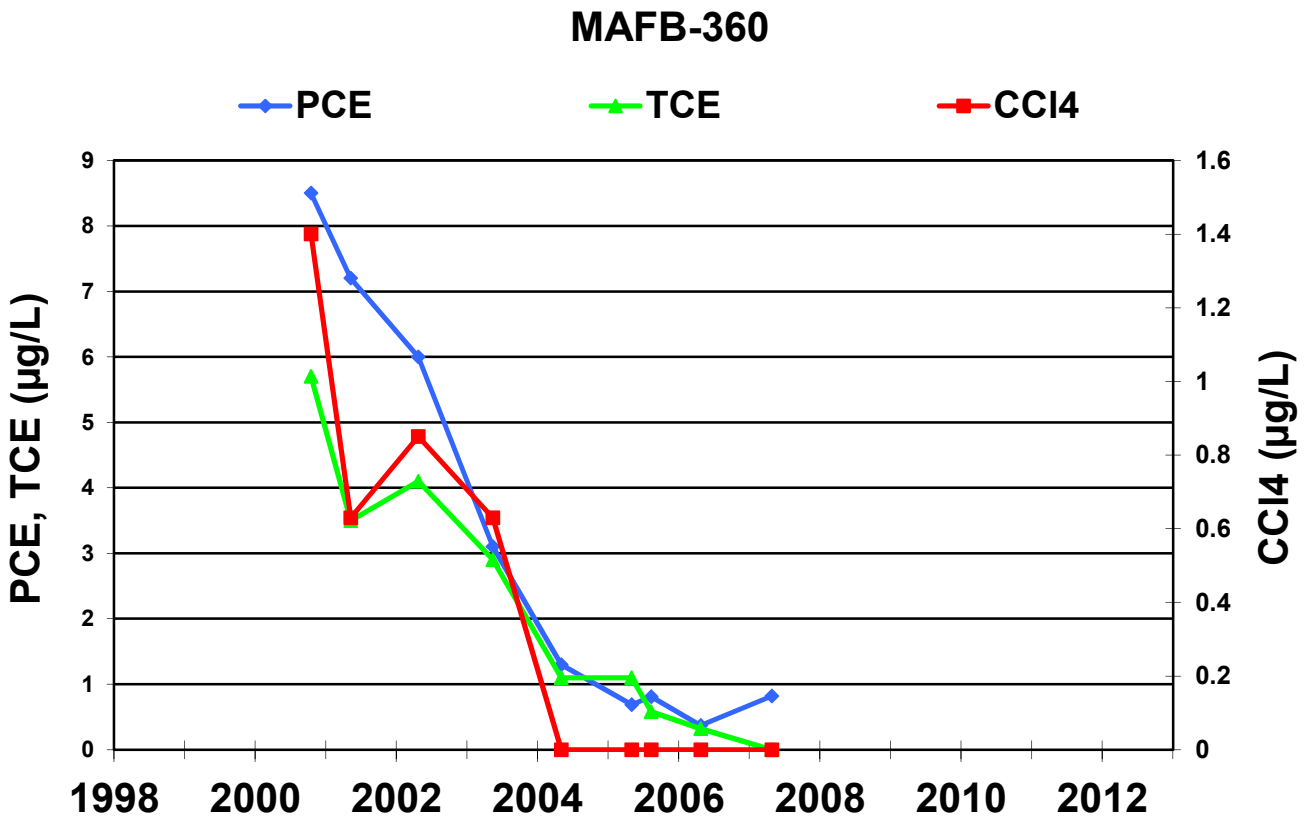

MAFB-357Dd
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

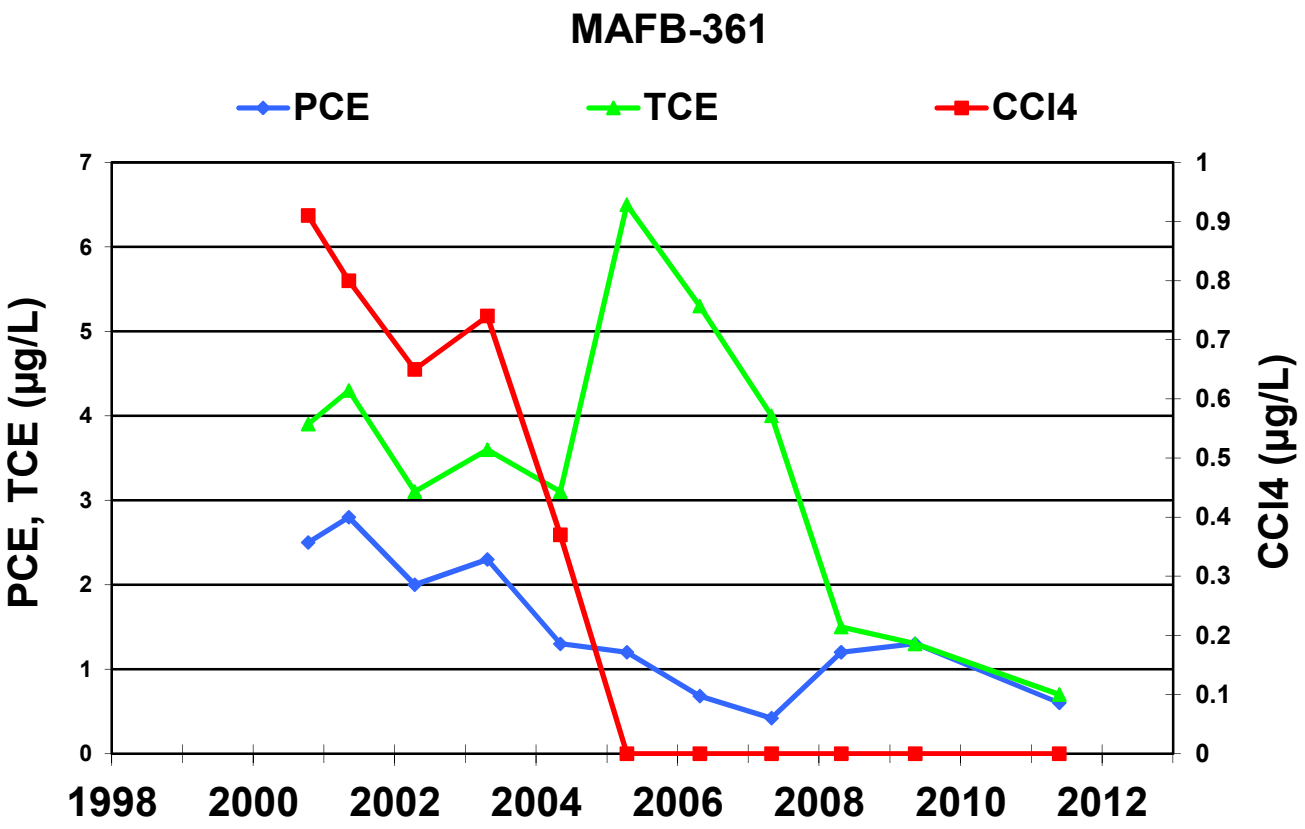

MAFB-357Ds
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

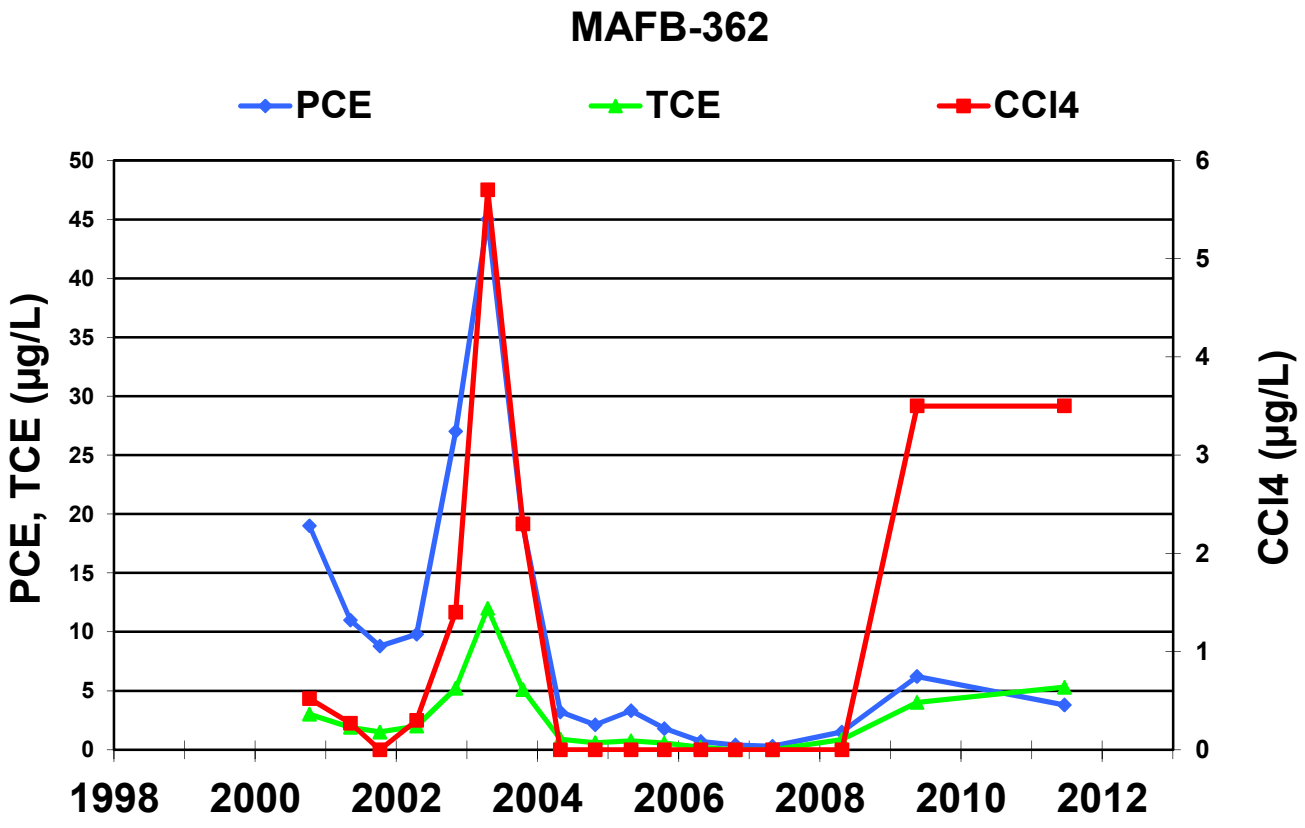

MAFB-358B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
250
200
150
100
50
0
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

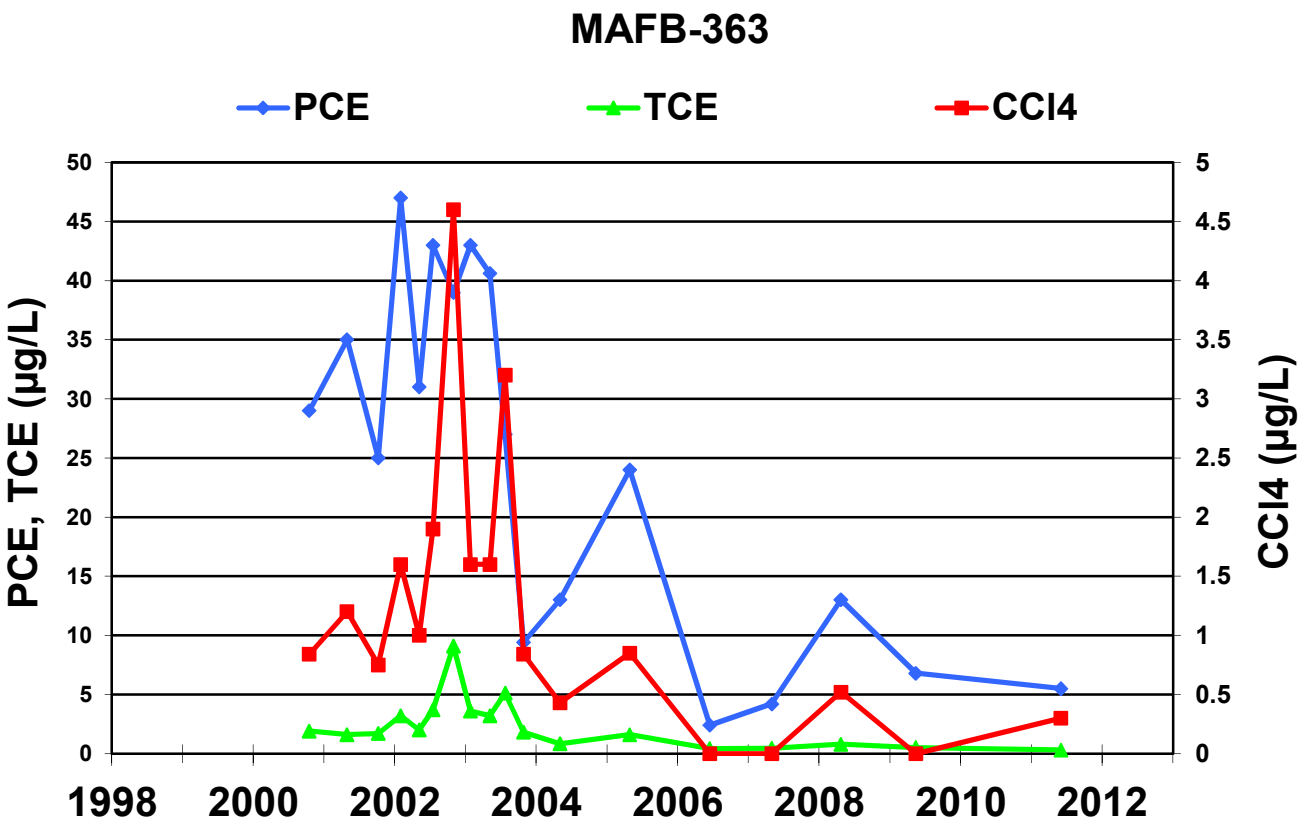

MAFB-358D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
120
100
80
60
40
20
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

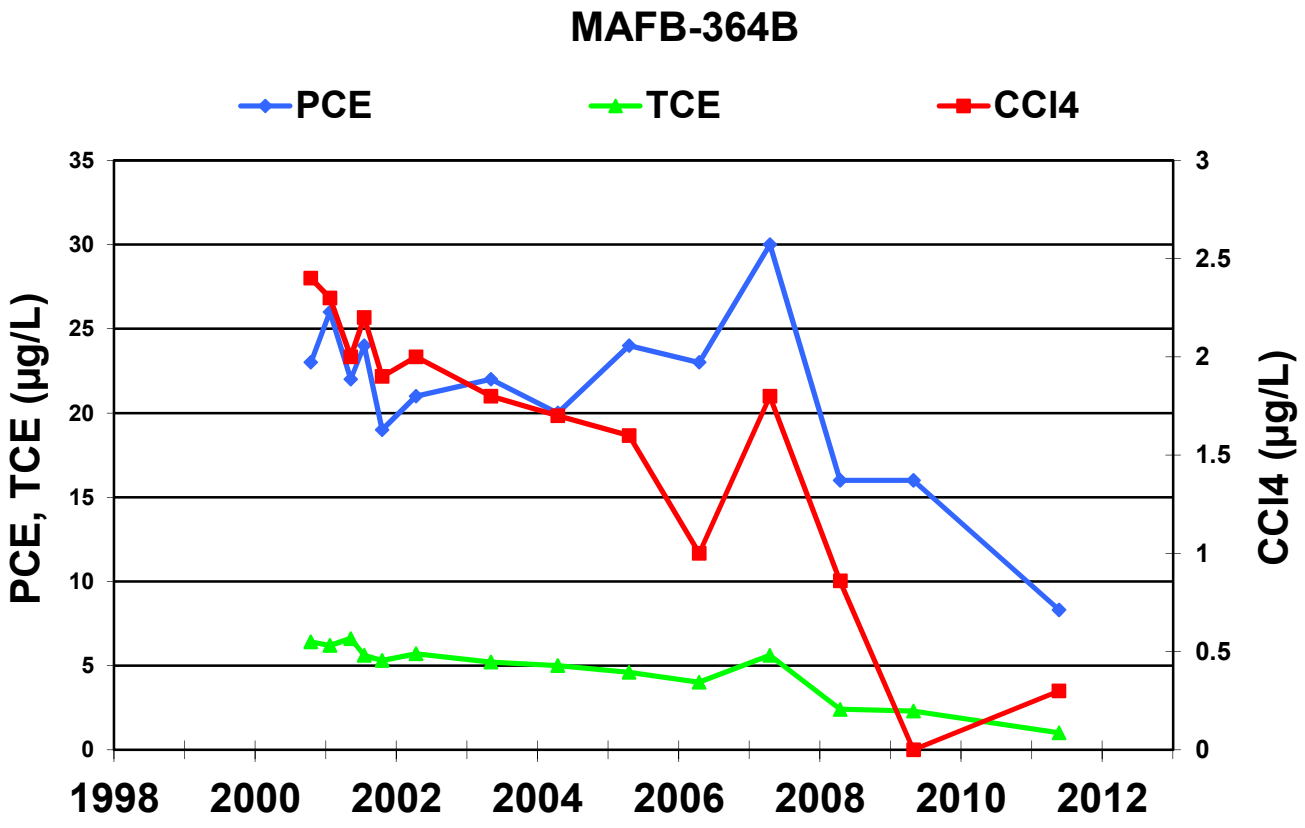

MAFB-359
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

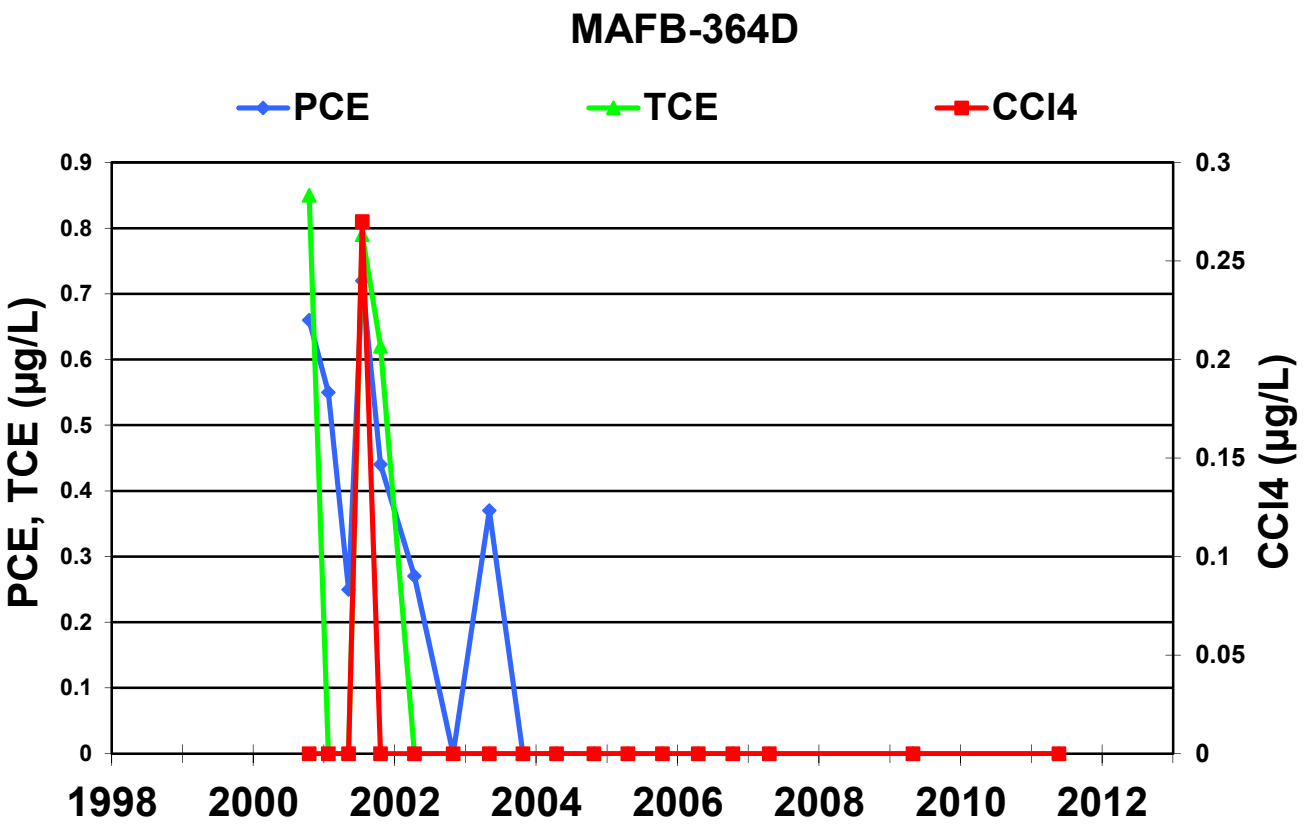

MAFB-360
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
9
8
7
6
5
4
3
2
1
0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

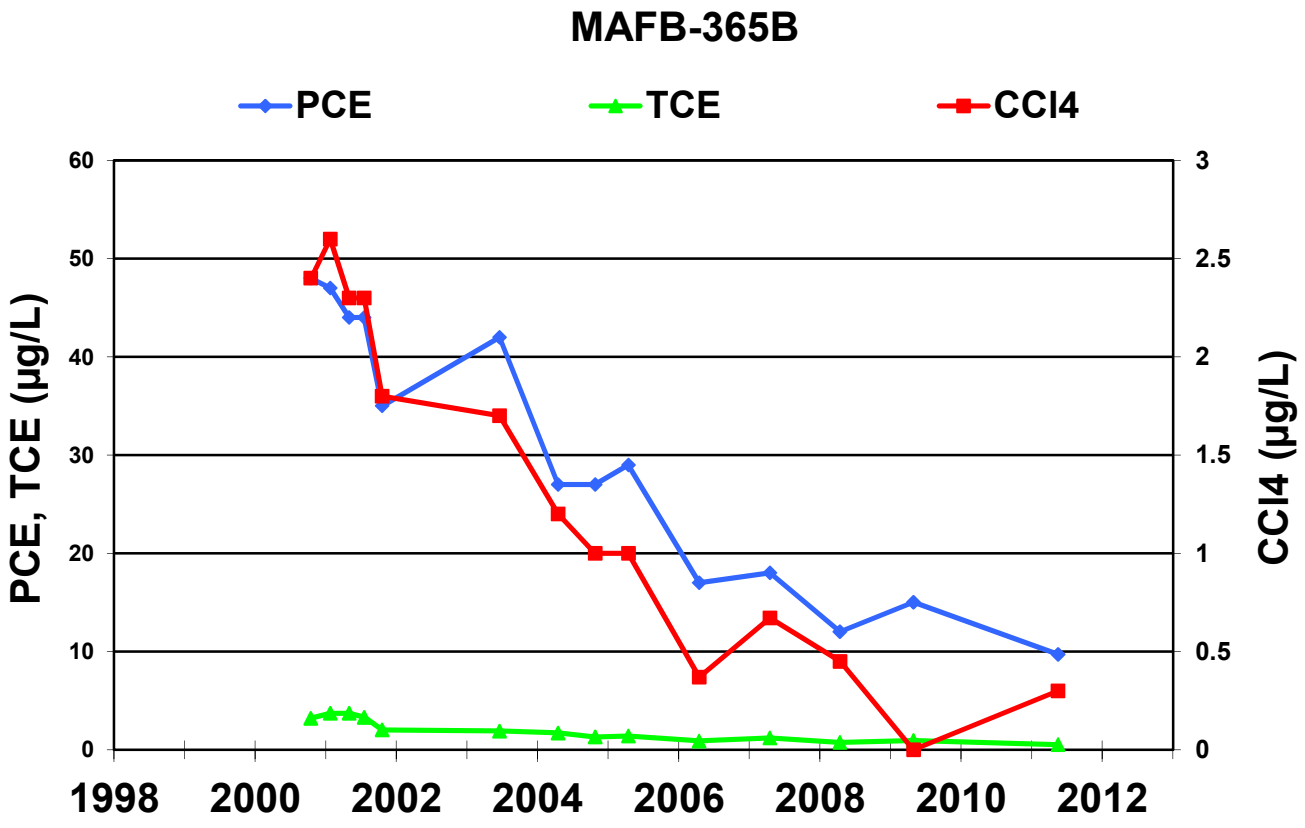

MAFB-361
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
1
2
3
4
5
6
7
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1998
2000
2002
2004
2006
2008
2010
2012

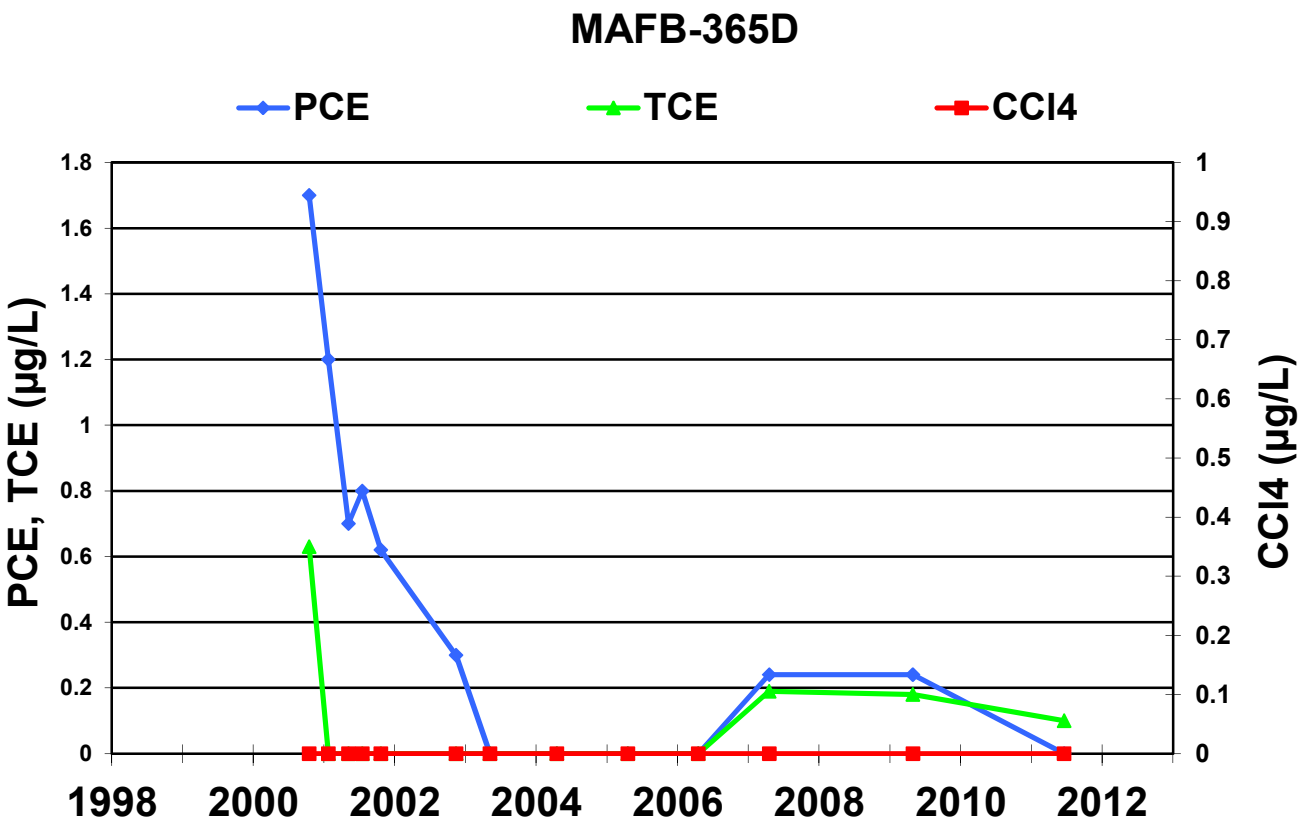

MAFB-362
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
5
10
15
20
25
30
35
40
45
50
0
1
2
3
4
5
6
1998
2000
2002
2004
2006
2008
2010
2012

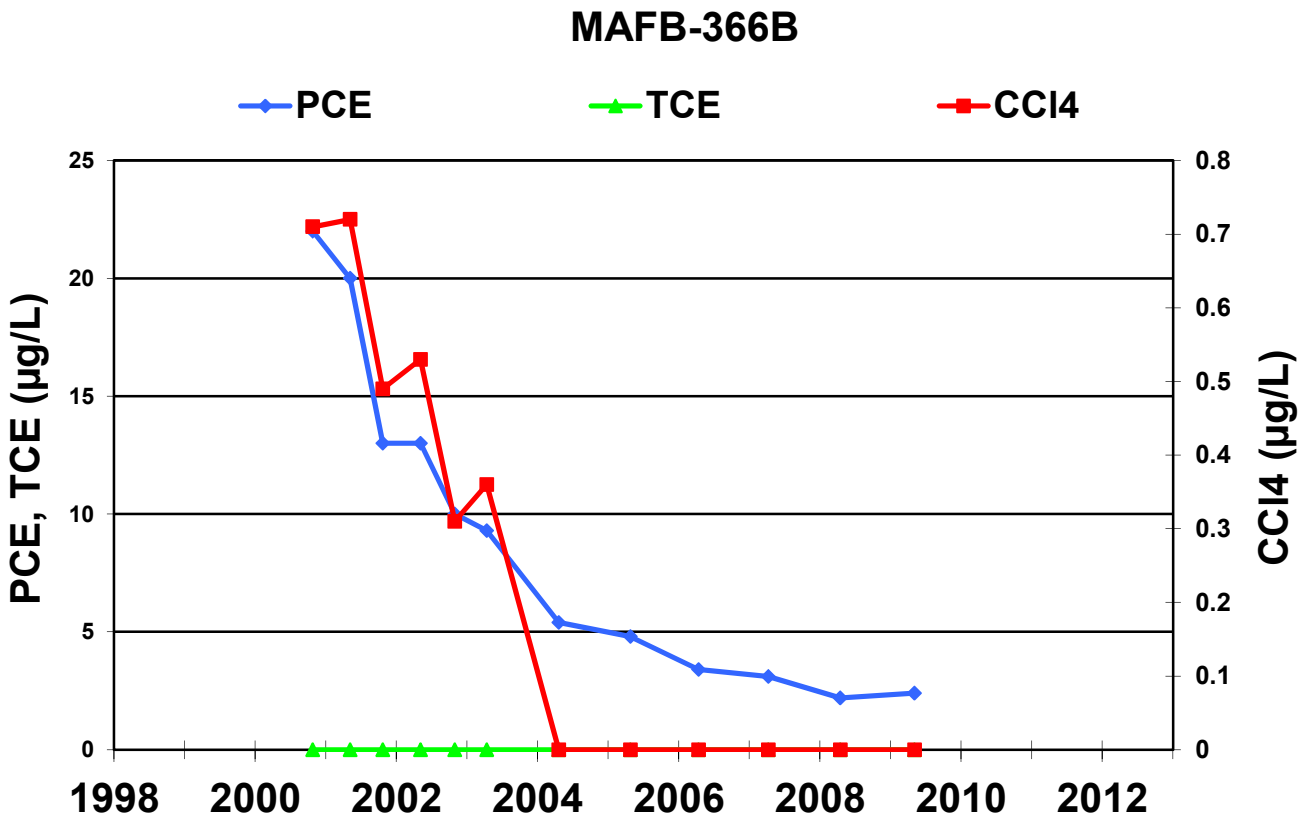

MAFB-363
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
50
45
40
35
30
25
20
15
10
5
0
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

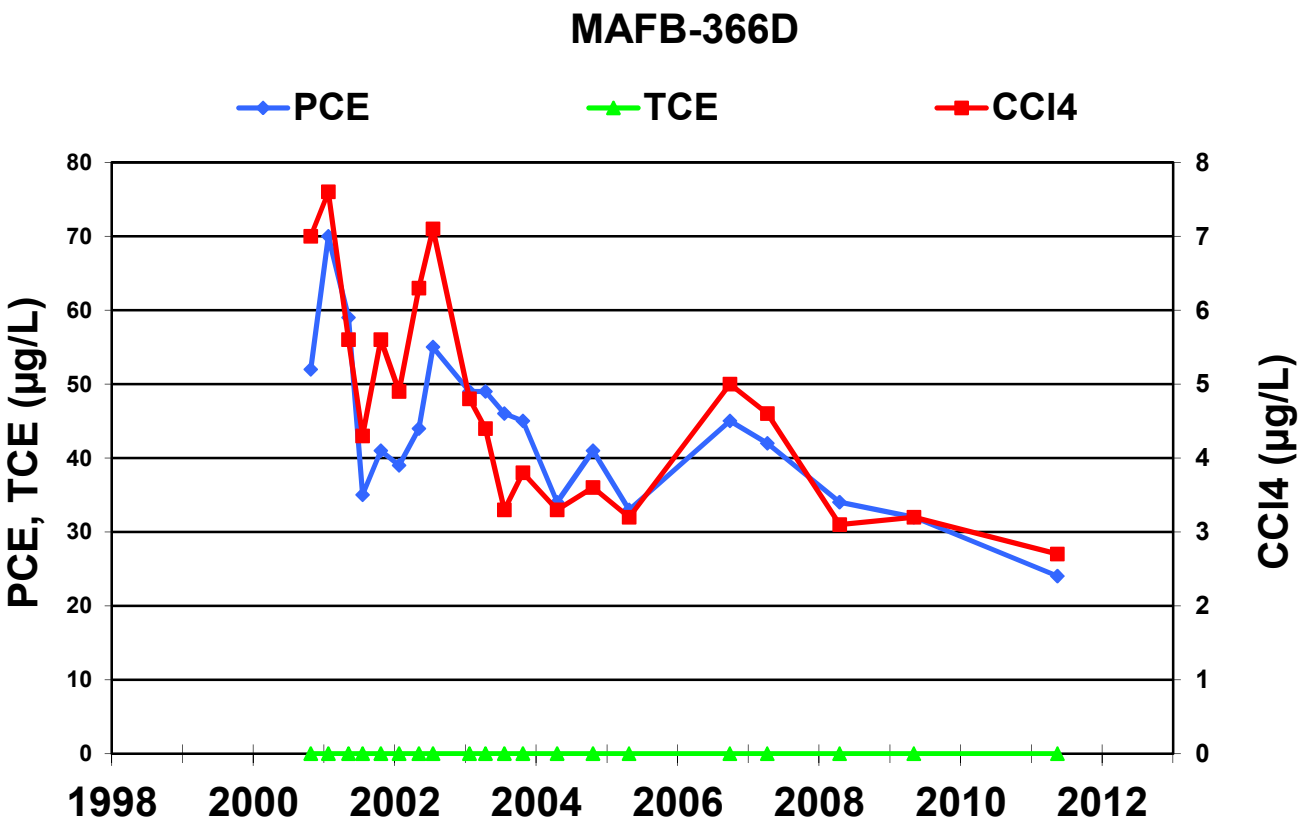

MAFB-364B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
35
30
25
20
15
10
5
0
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

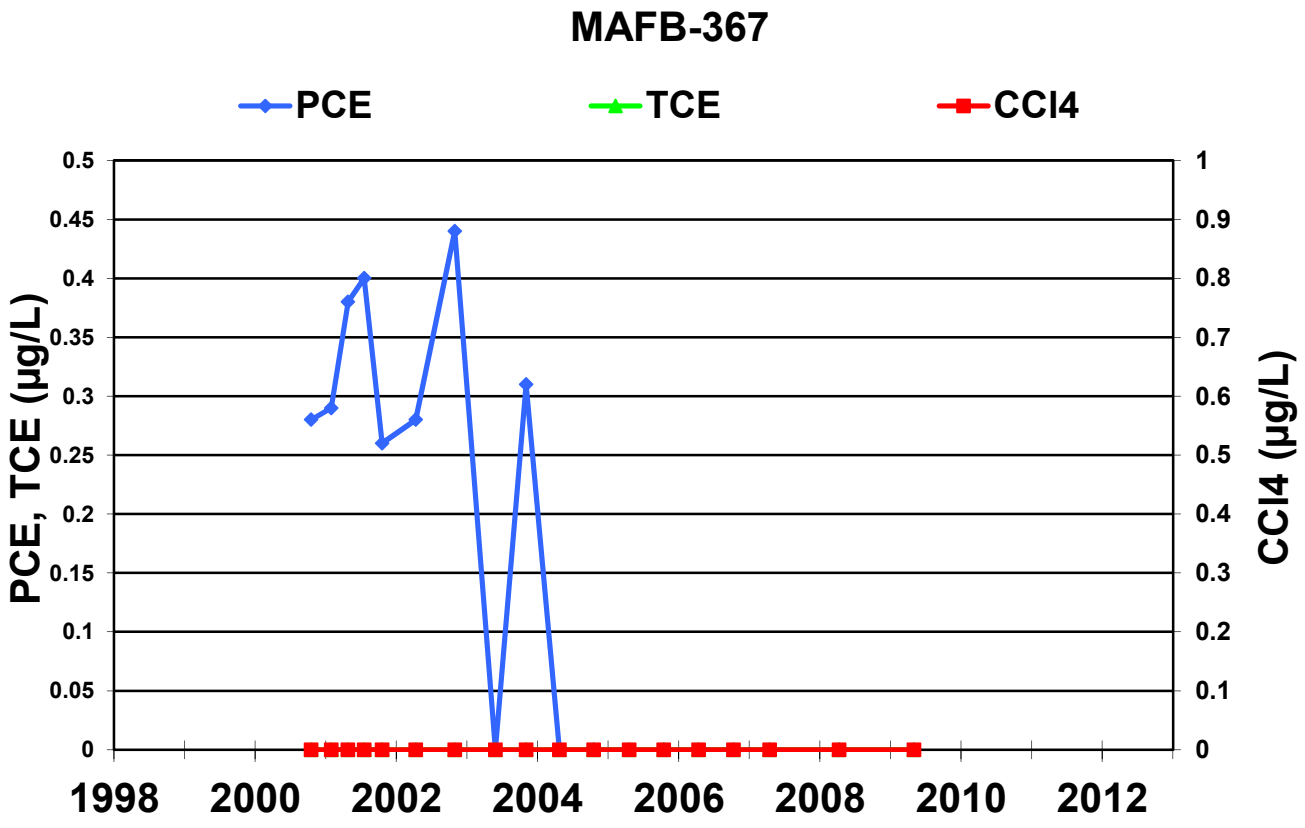

MAFB-364D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

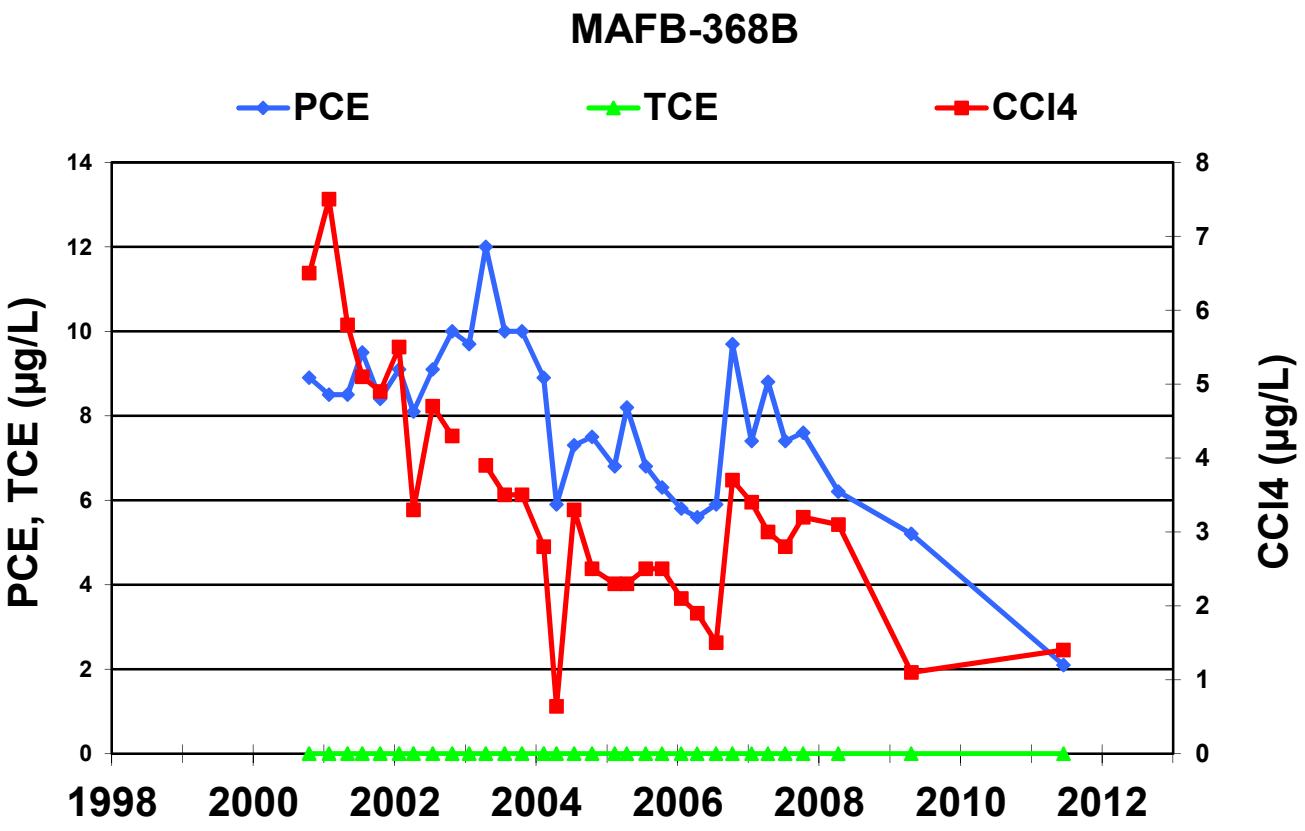

MAFB-365B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
60
50
40
30
20
10
0
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

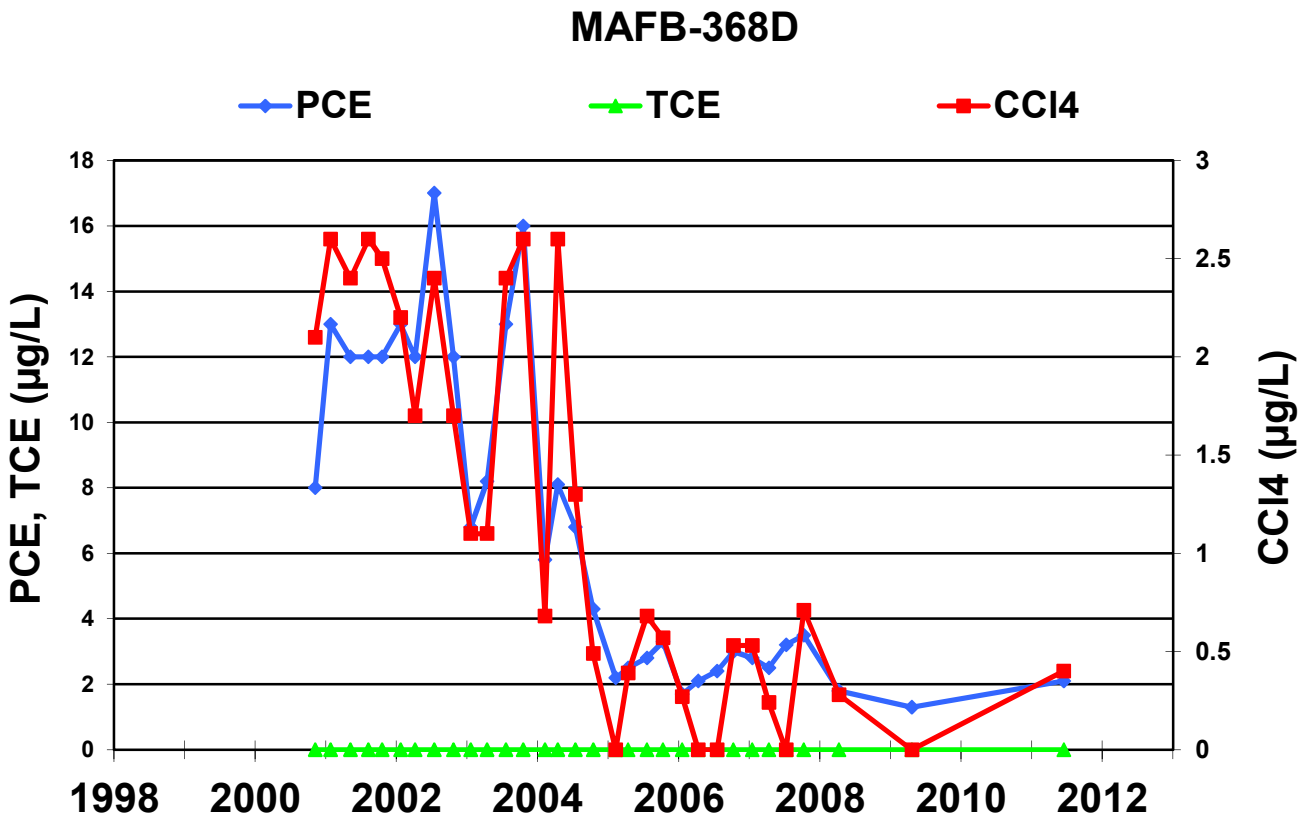

MAFB-365D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

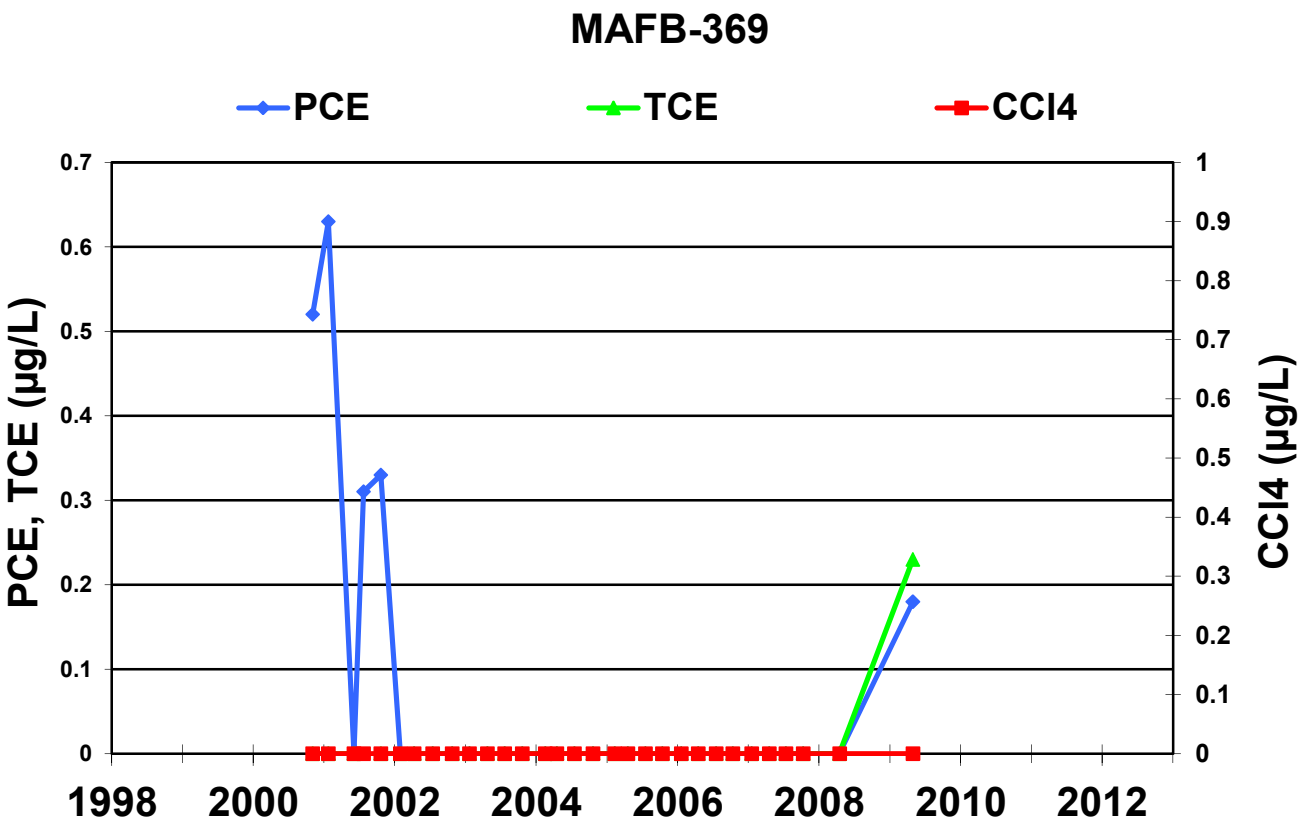

MAFB-366B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
25
20
15
10
5
0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

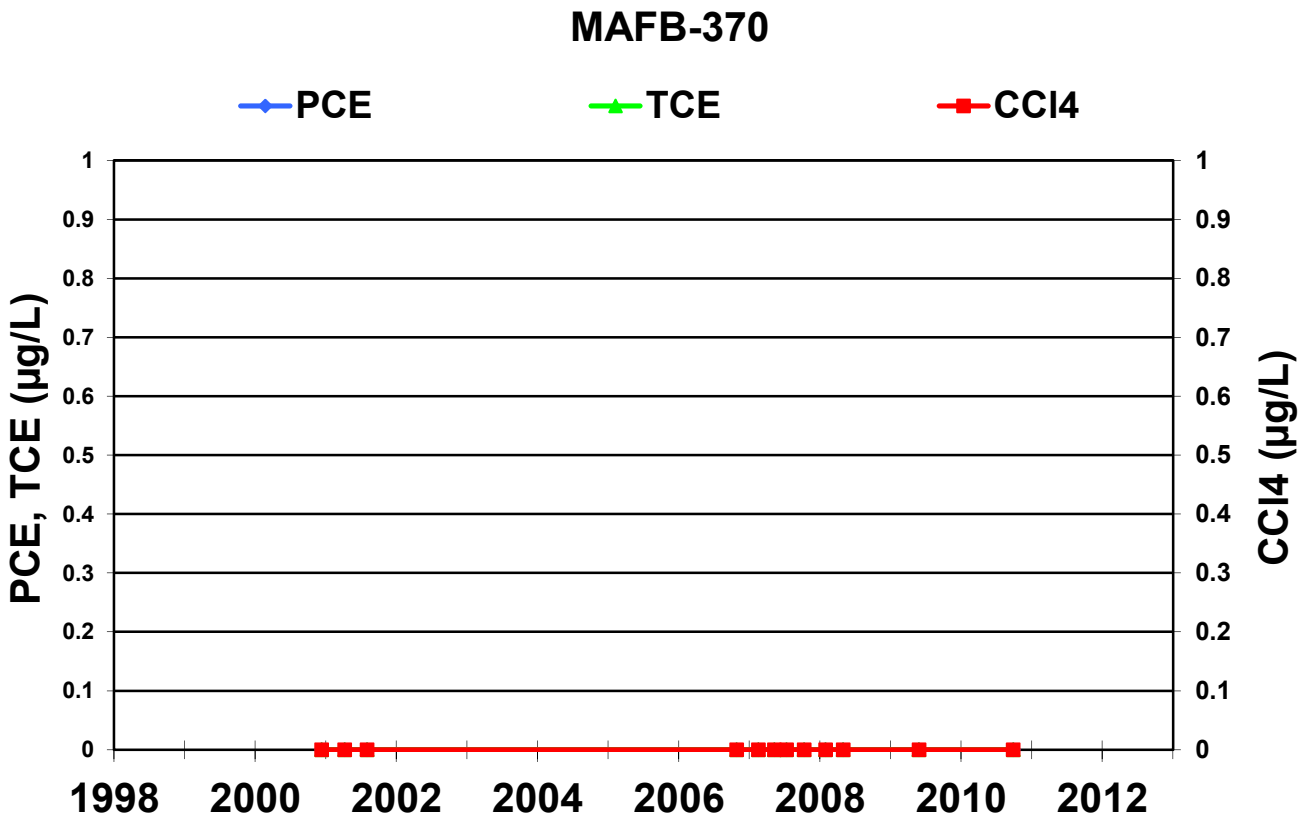

MAFB-366D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
80
70
60
50
40
30
20
10
0
8
7
6
5
4
3
2
1
0
1998
2000
2002
2004
2006
2008
2010
2012

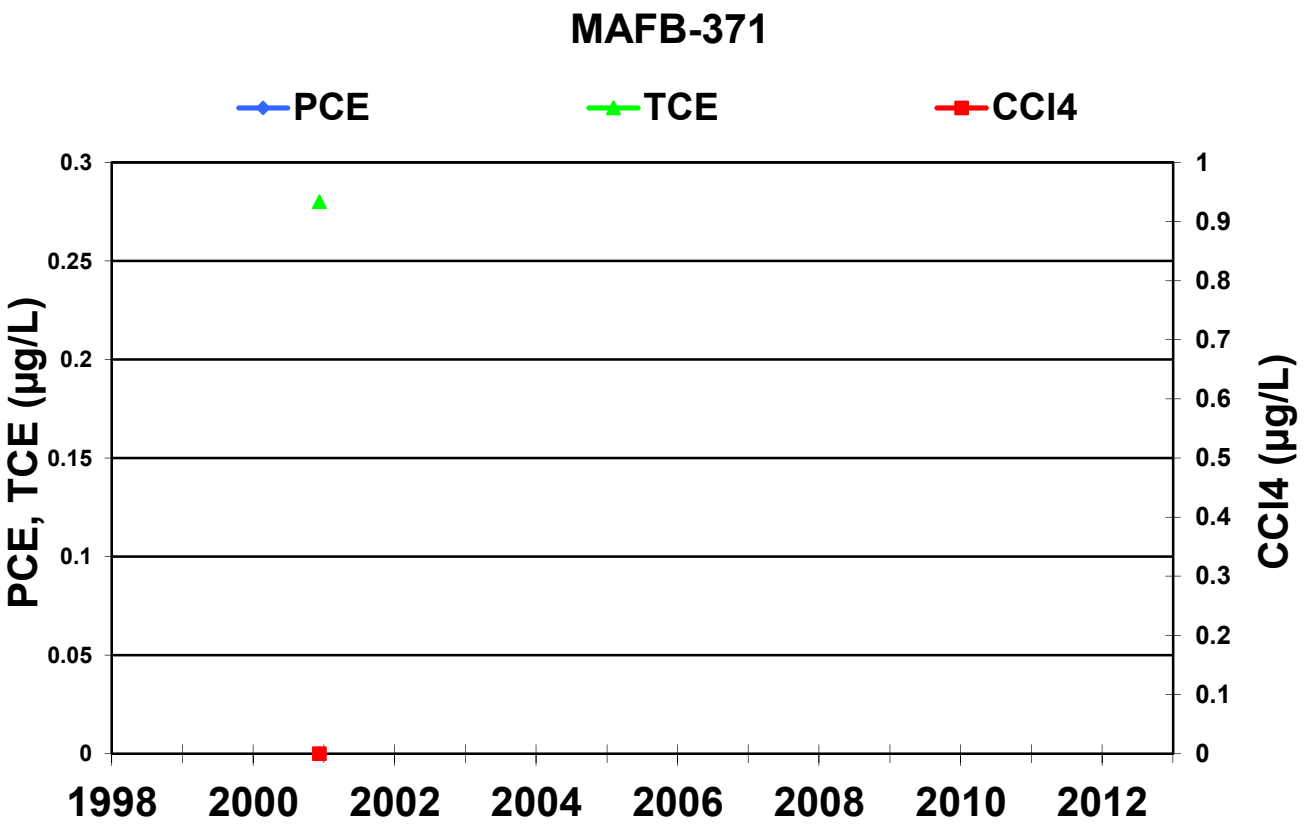

MAFB-367
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

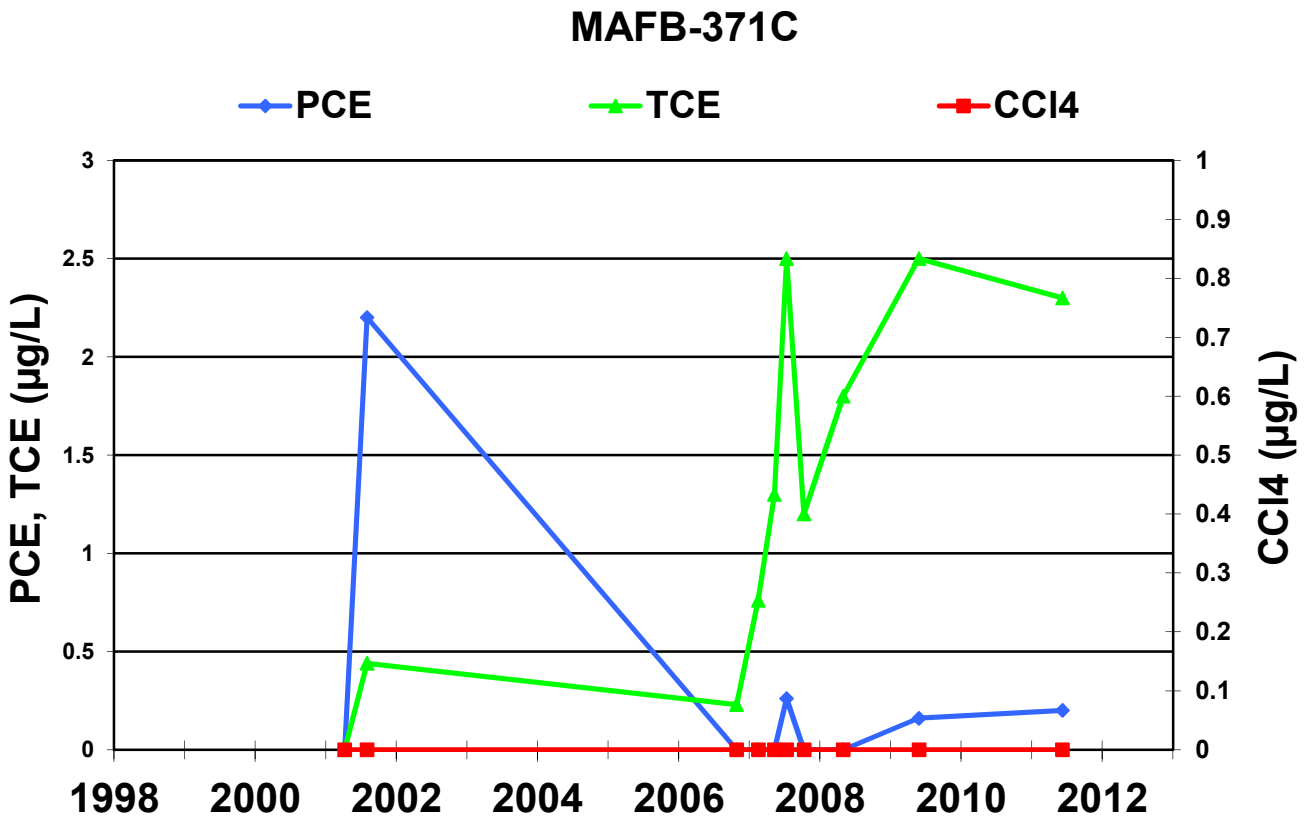

MAFB-368B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
2
4
6
8
10
12
14
0
1
2
3
4
5
6
7
8
1998
2000
2002
2004
2006
2008
2010
2012

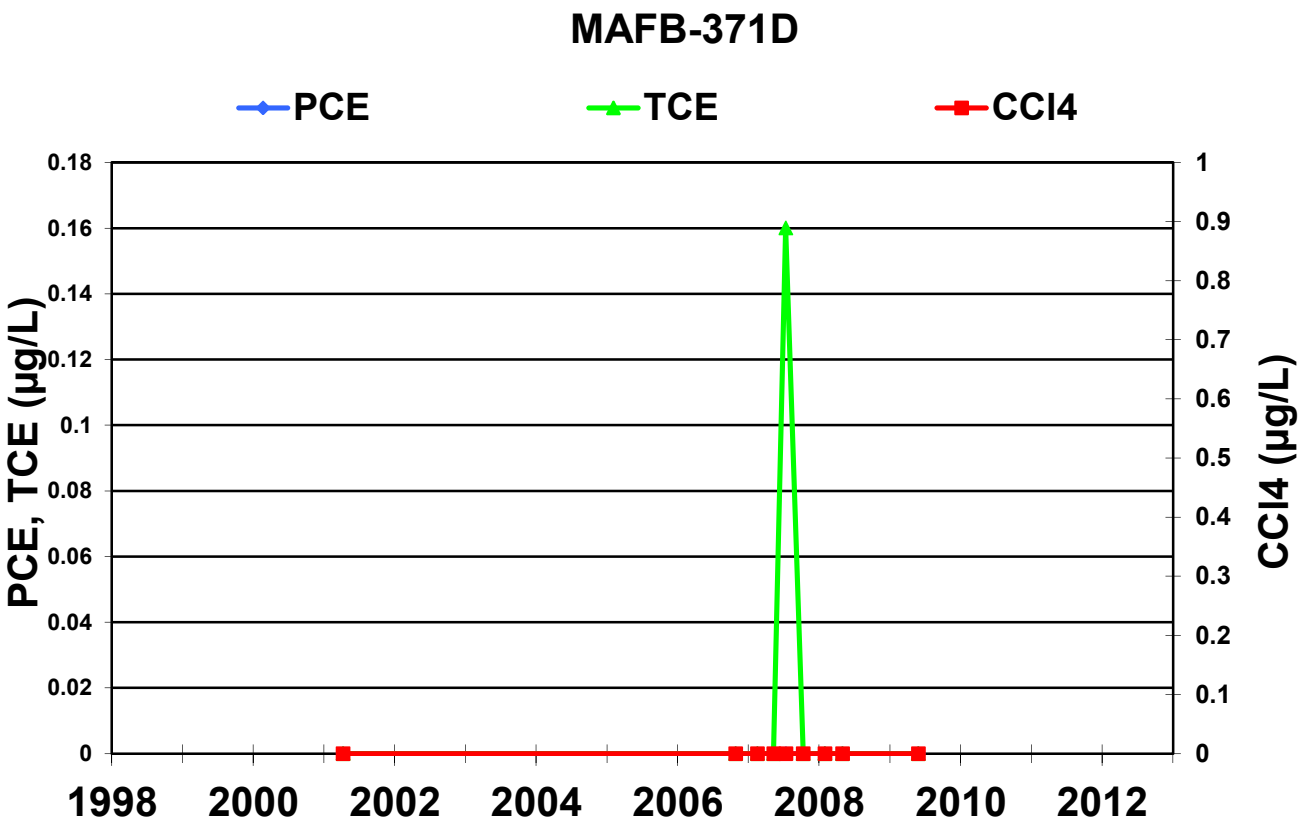

MAFB-368D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
2
4
6
8
10
12
14
16
18
0
0.5
1
1.5
2
2.5
3
1998
2000
2002
2004
2006
2008
2010
2012

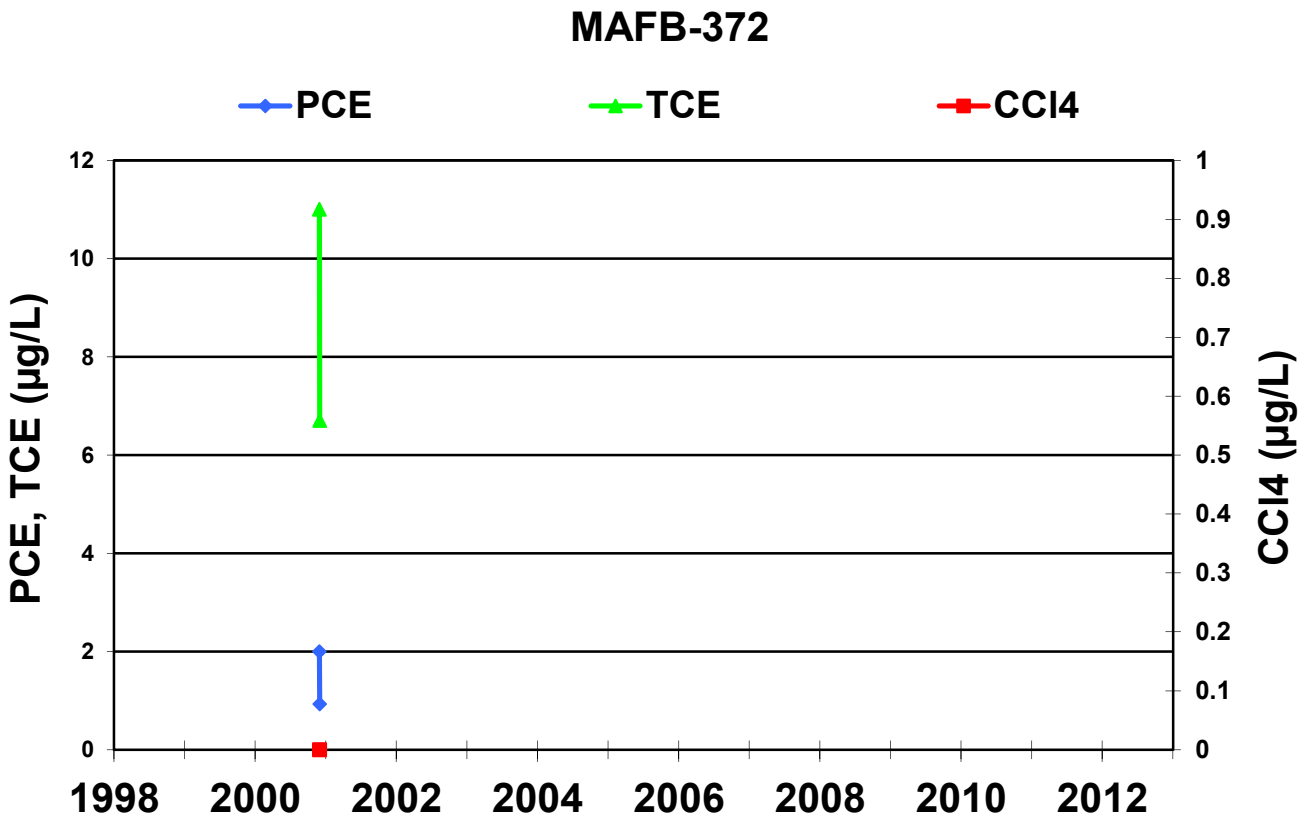

MAFB-369
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

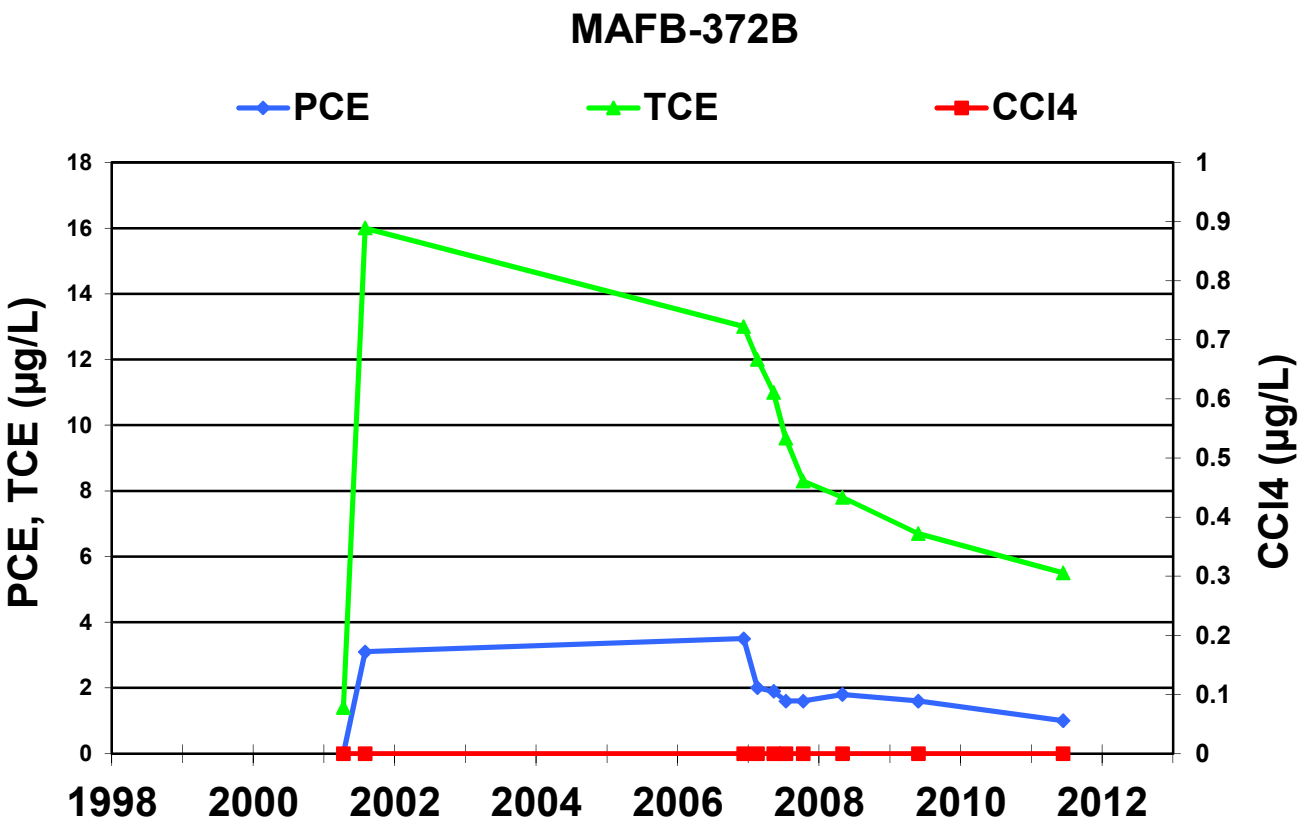

MAFB-370
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

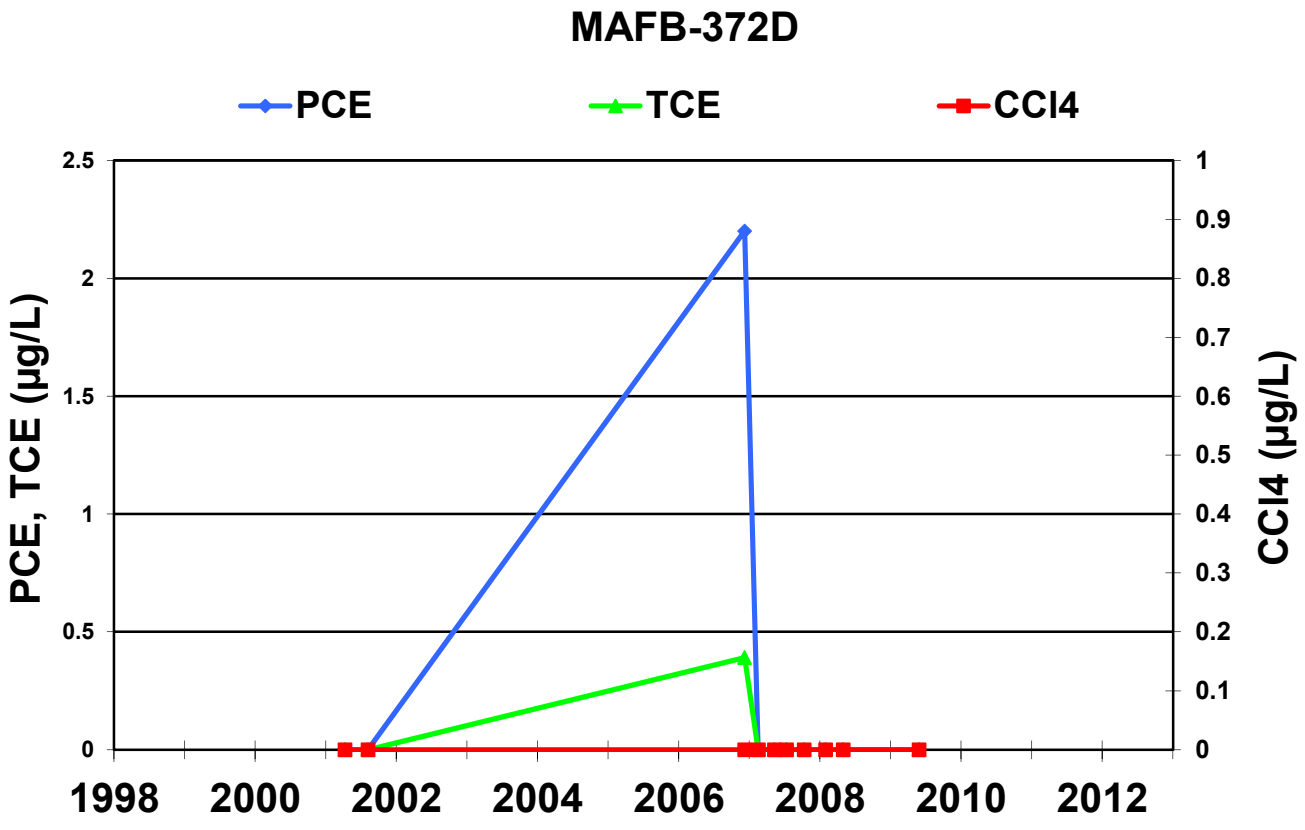

MAFB-371
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

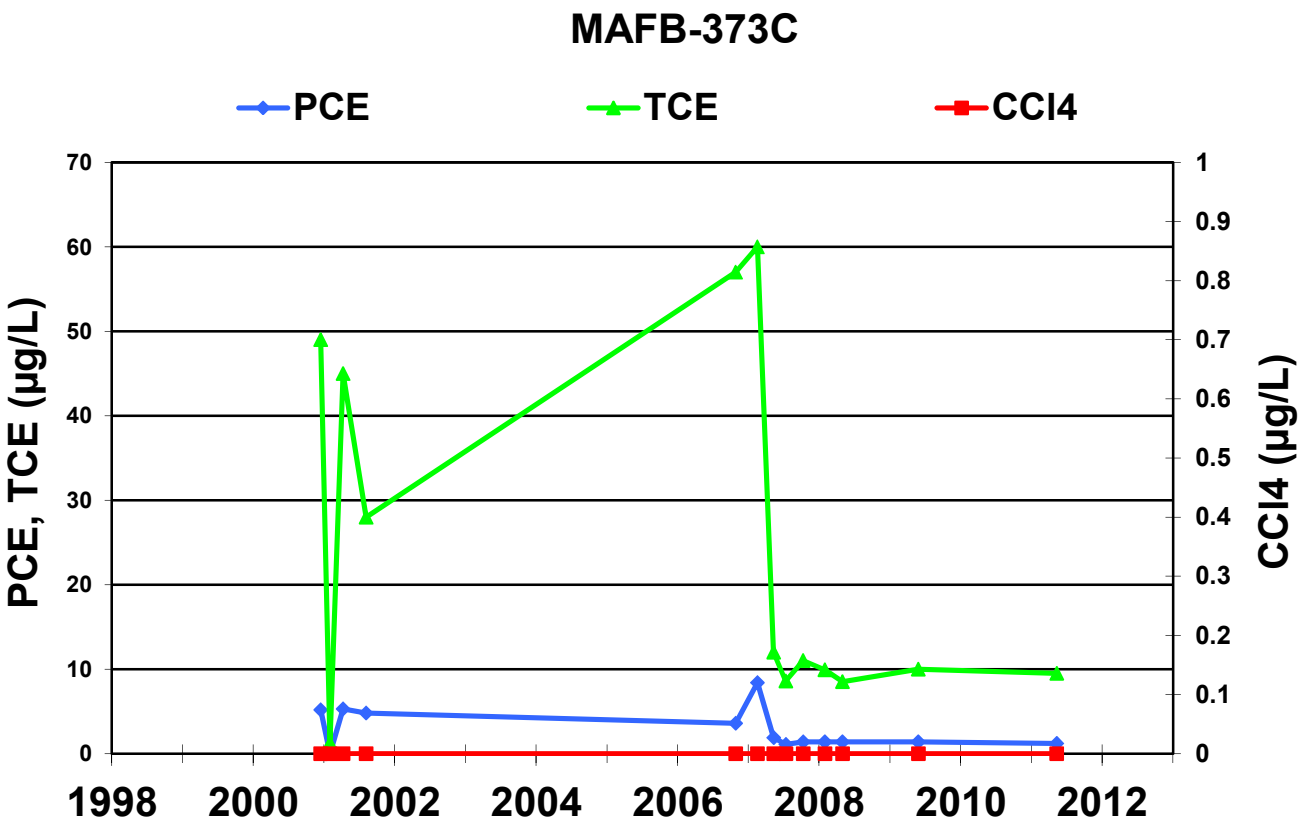

MAFB-371C
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

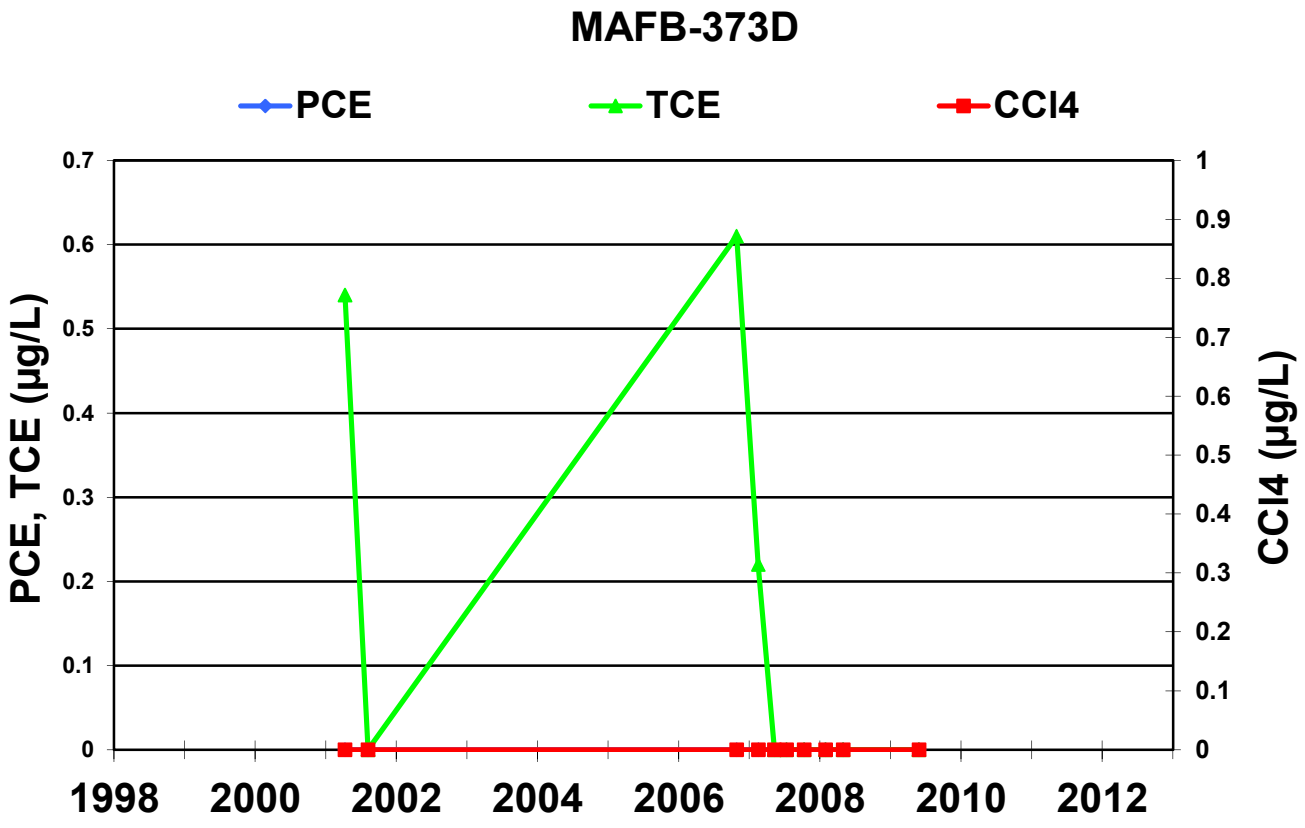

MAFB-371D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

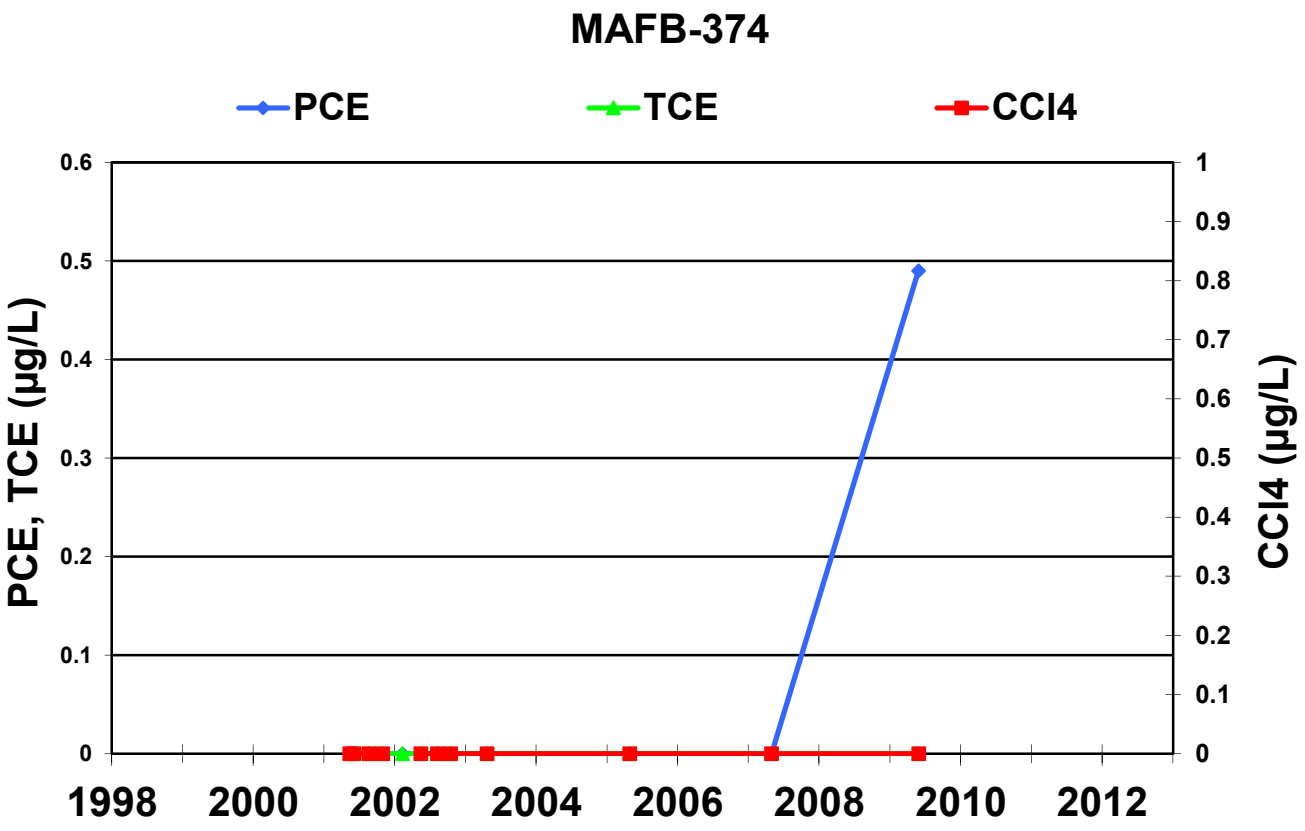

MAFB-372
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

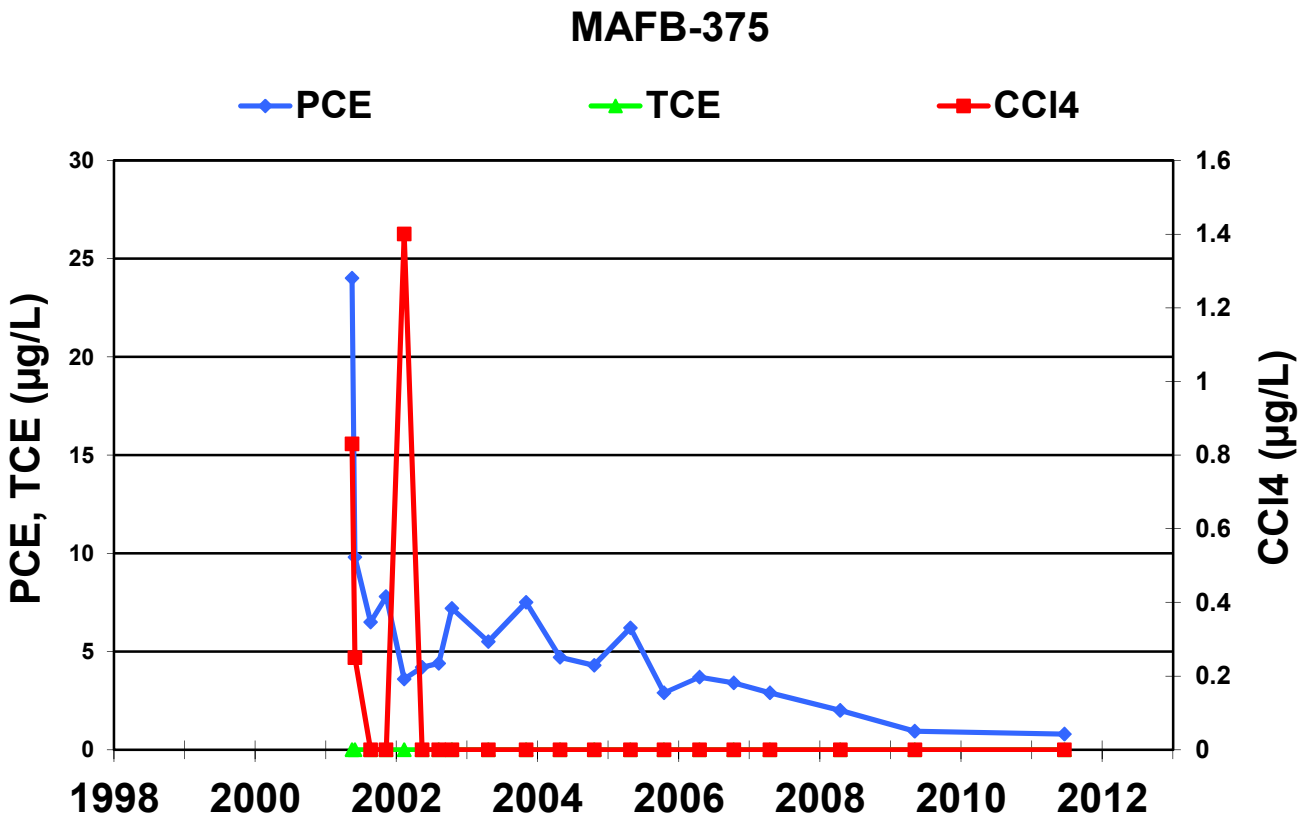

MAFB-372B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
18
16
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

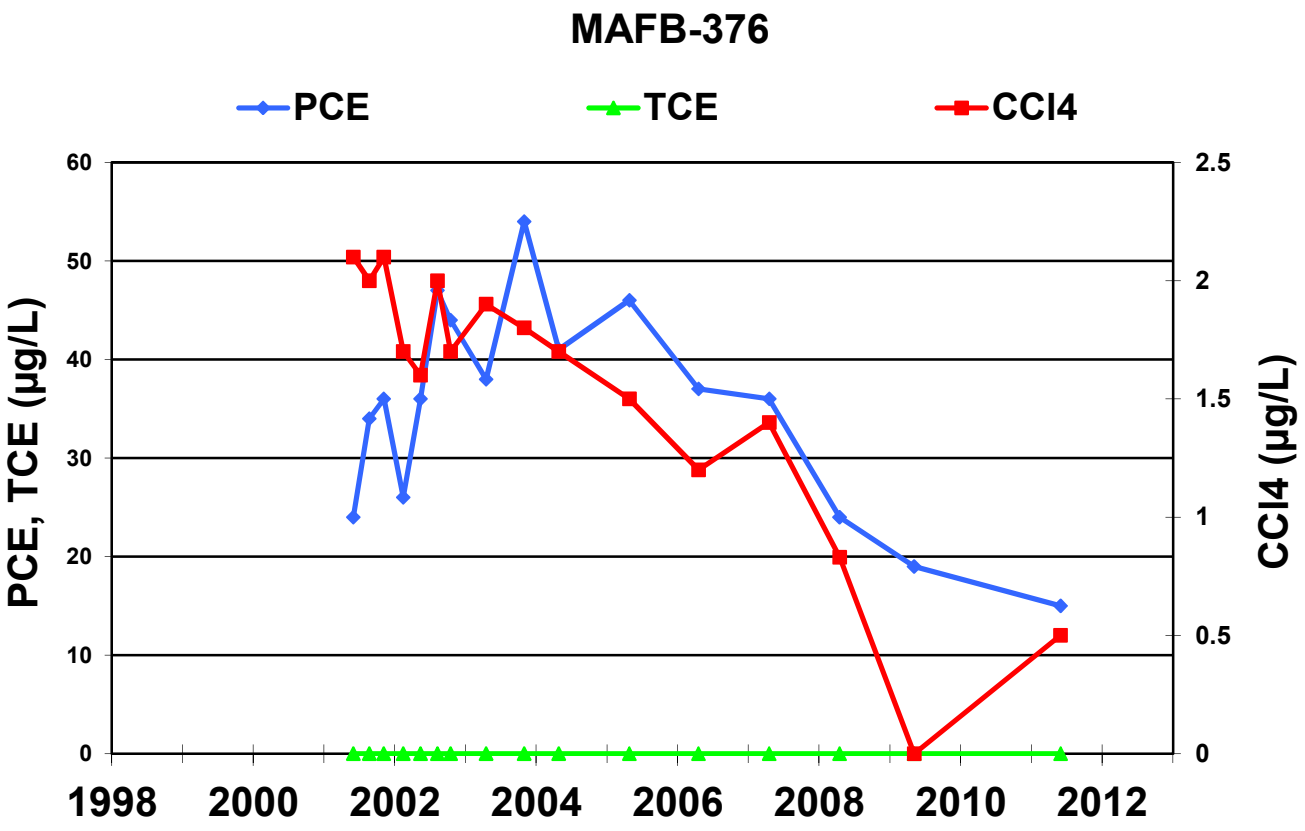

MAFB-372D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

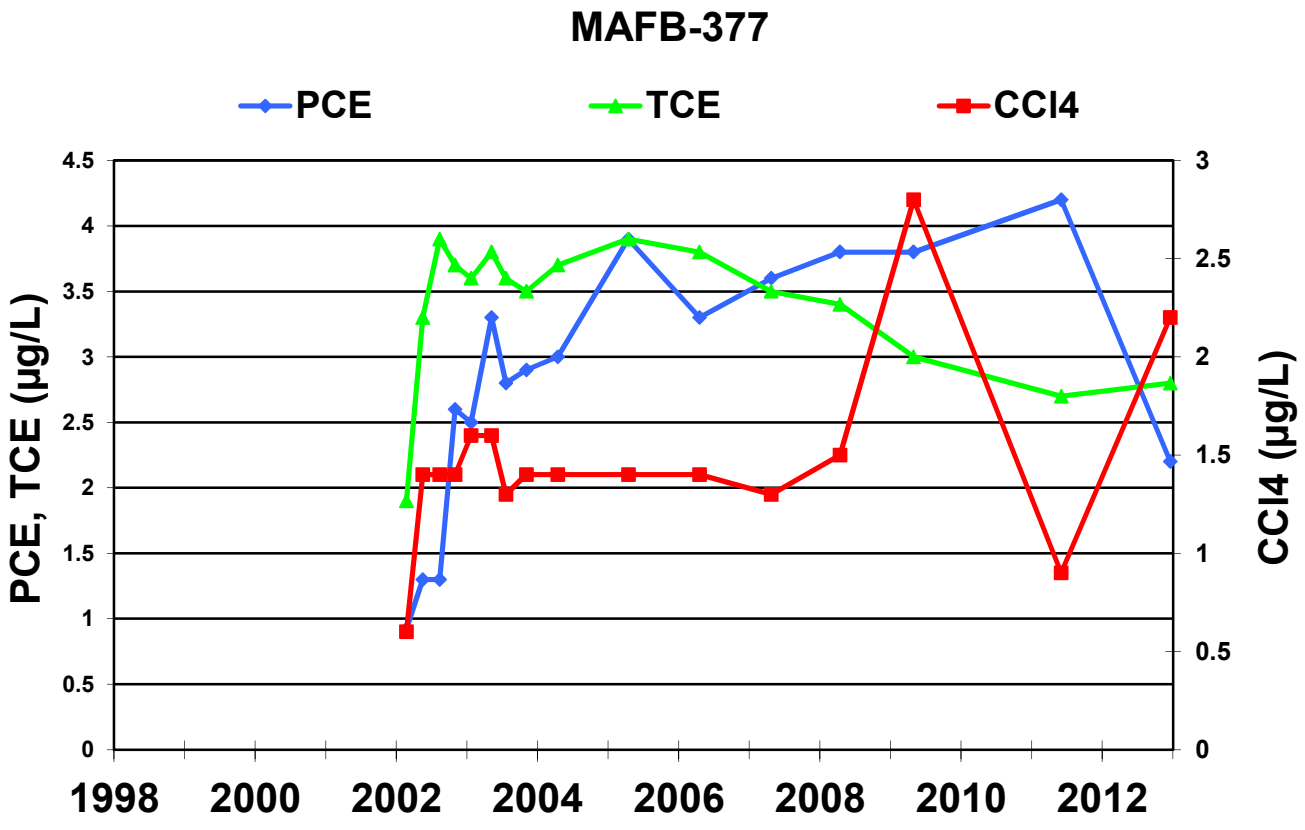

MAFB-373C
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

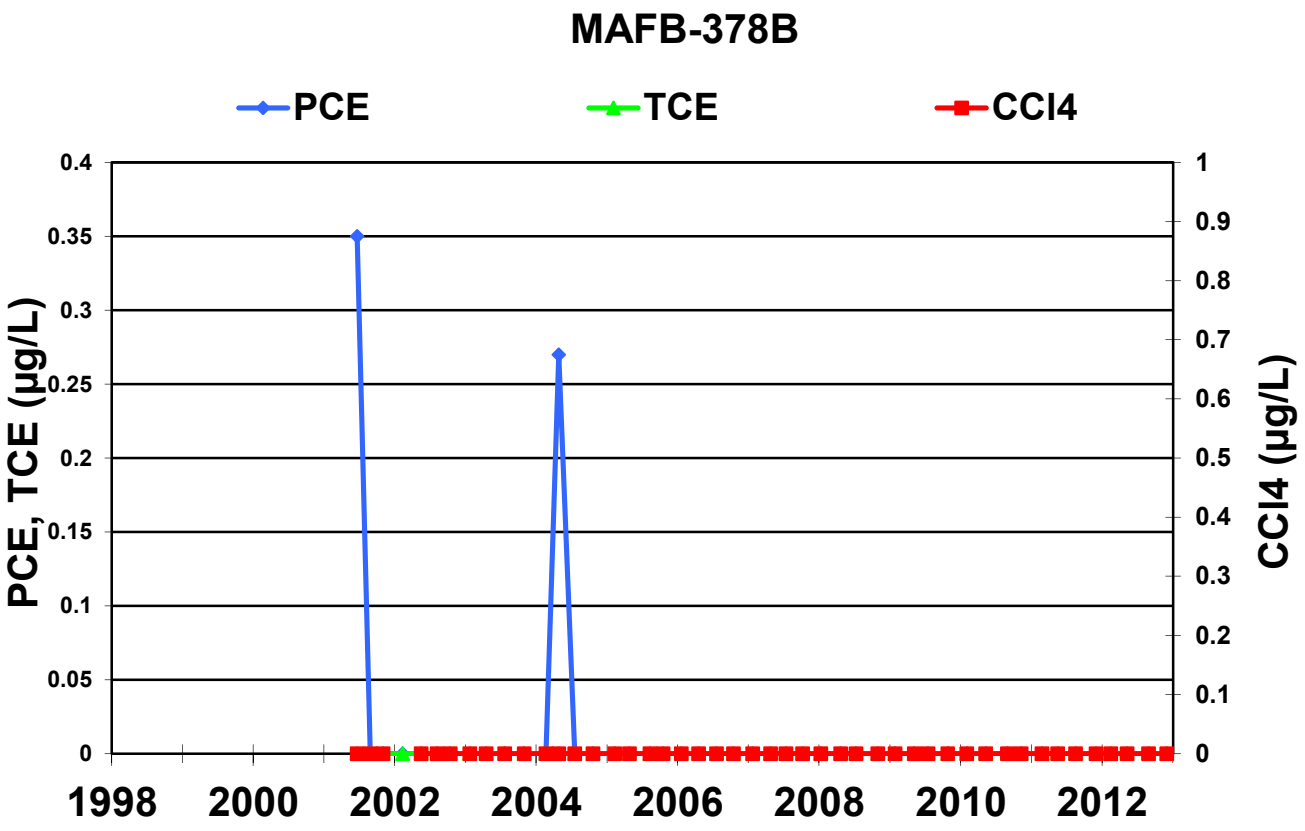

MAFB-373D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

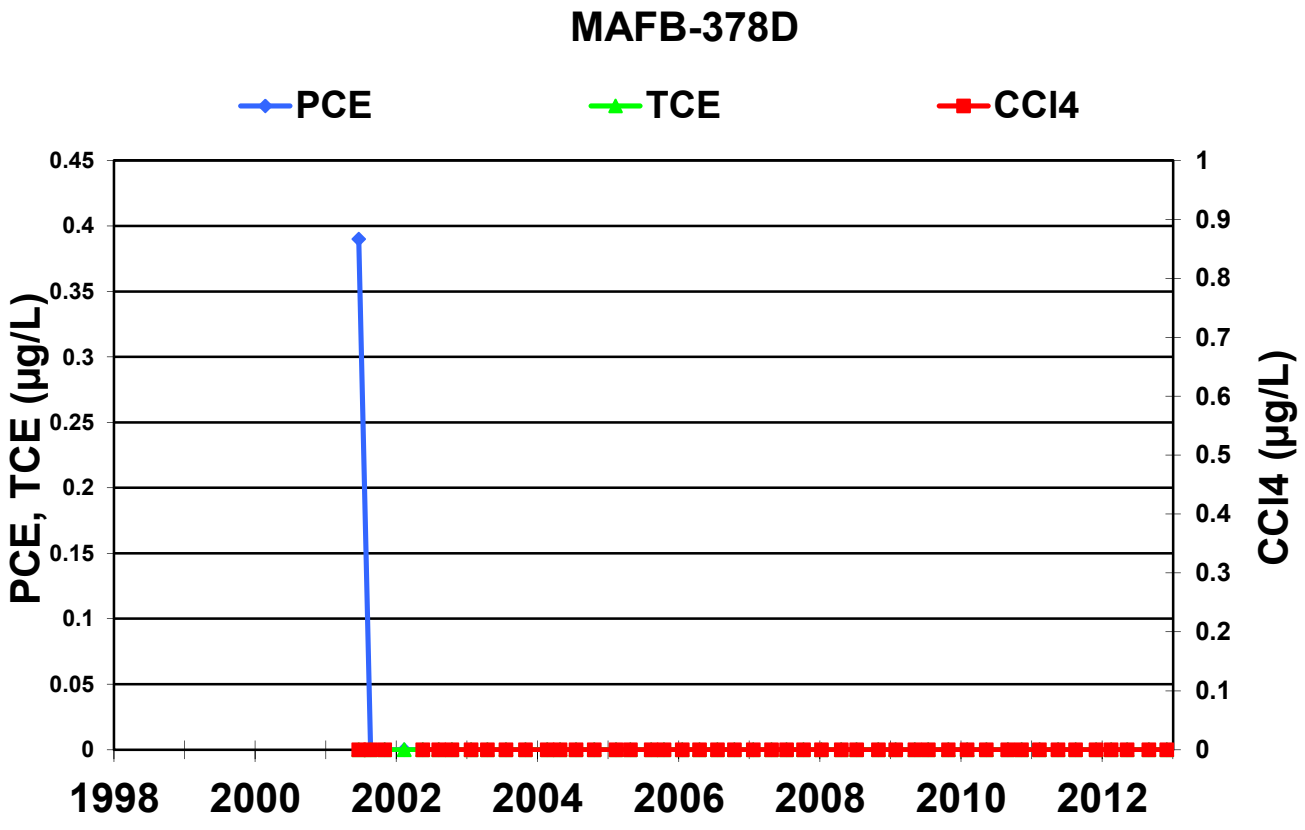

MAFB-374
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

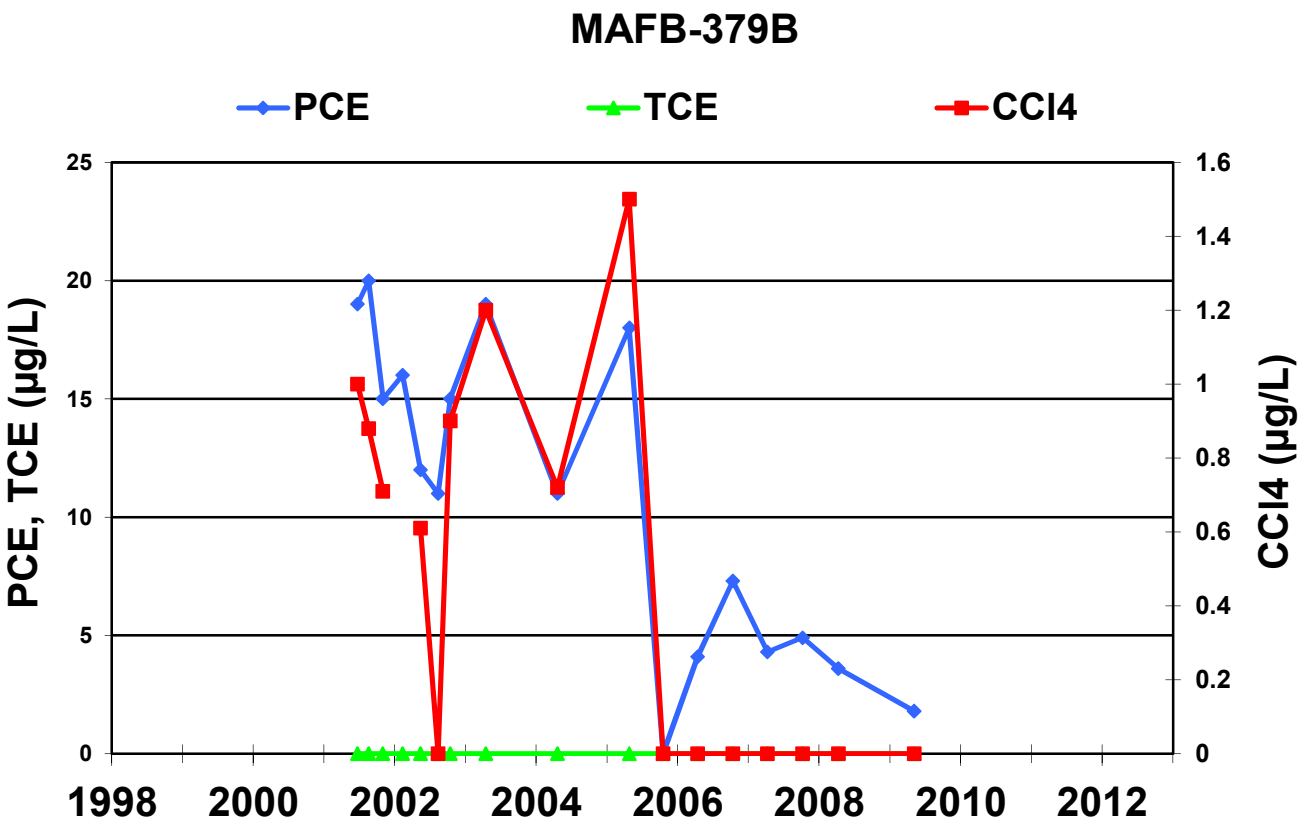

MAFB-375
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
30
25
20
15
10
5
0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

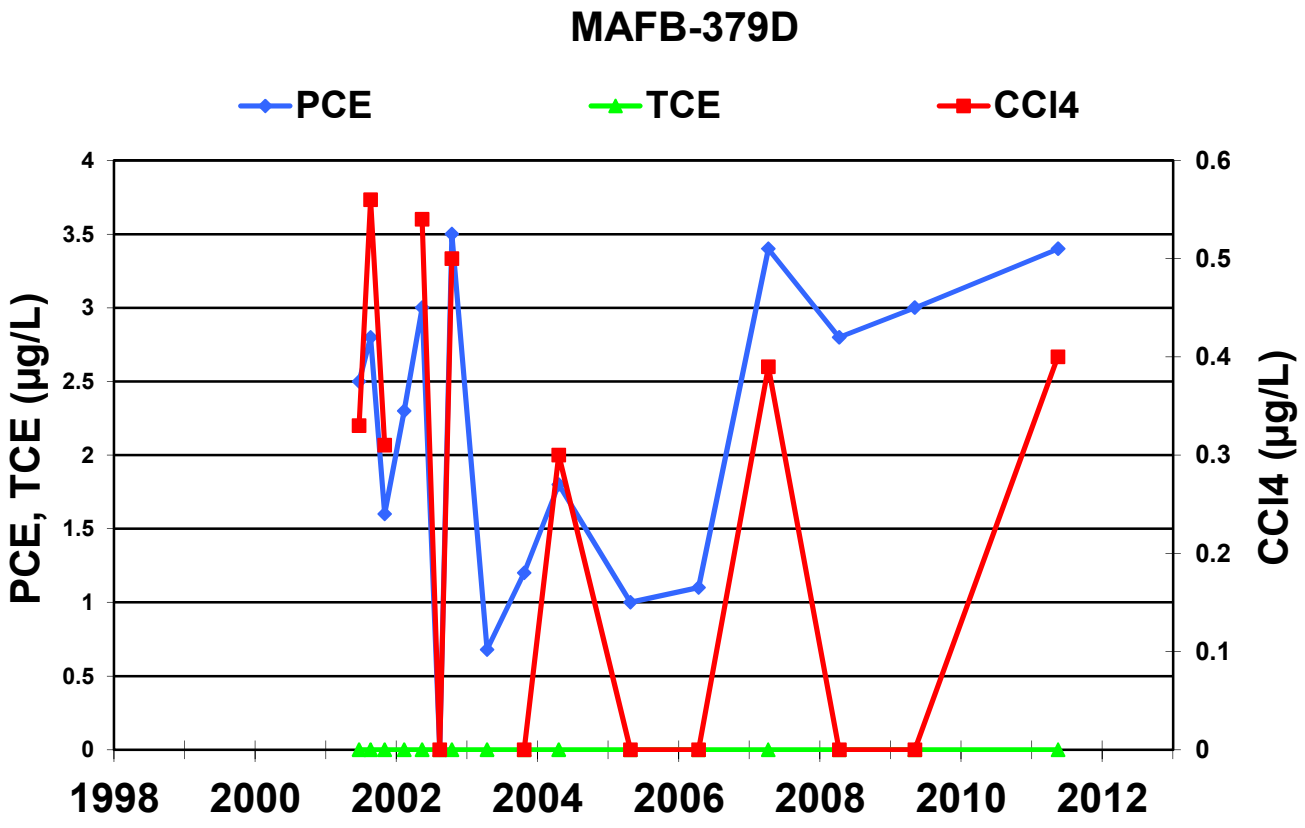

MAFB-376
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
60
50
40
30
20
10
0
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

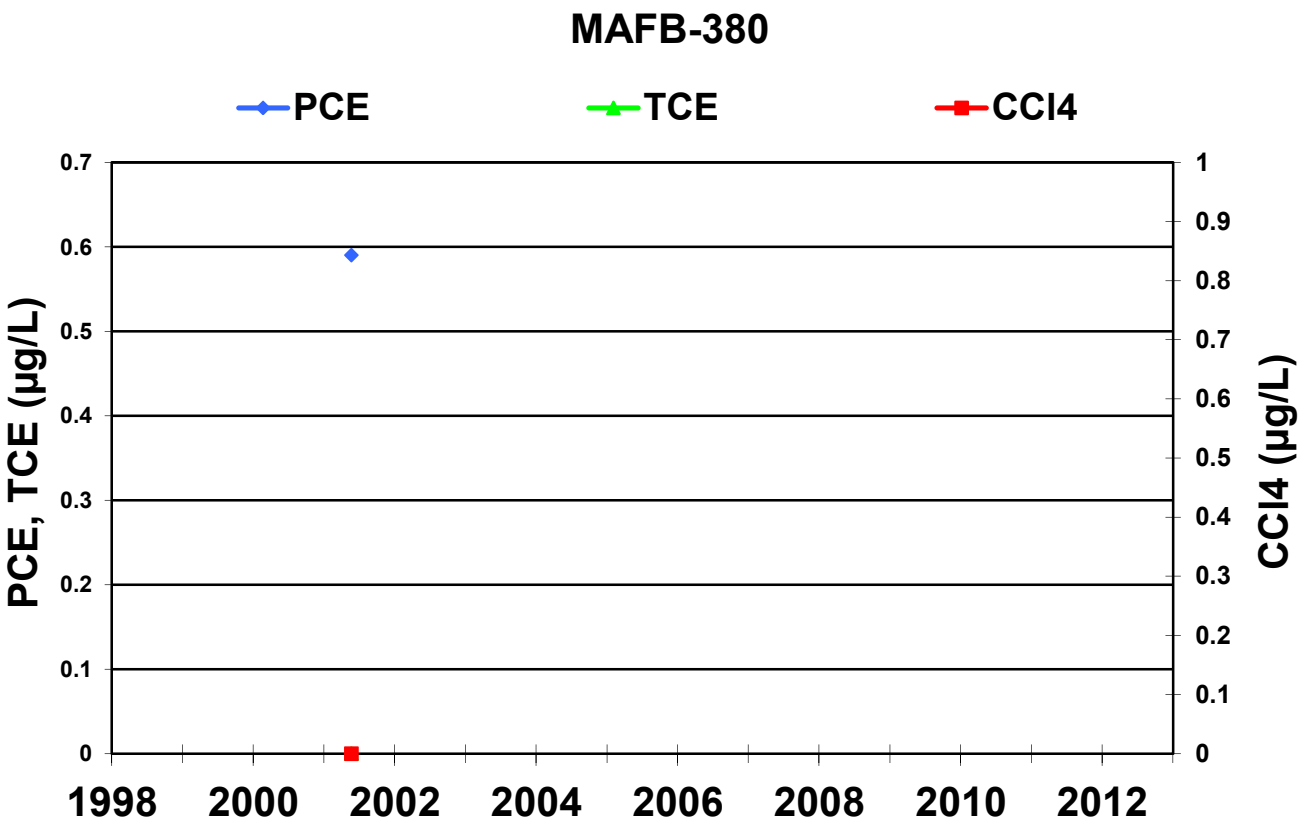

MAFB-377
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

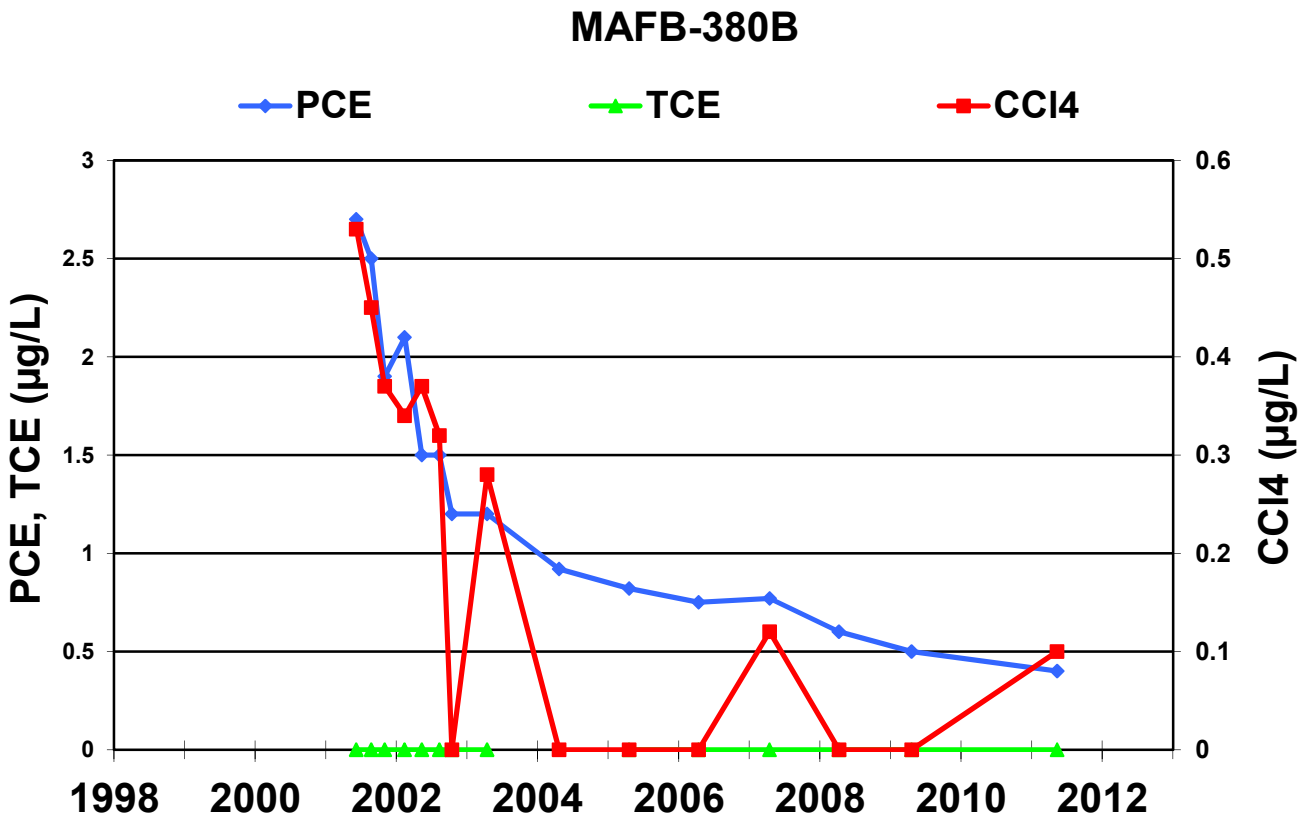

MAFB-378B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

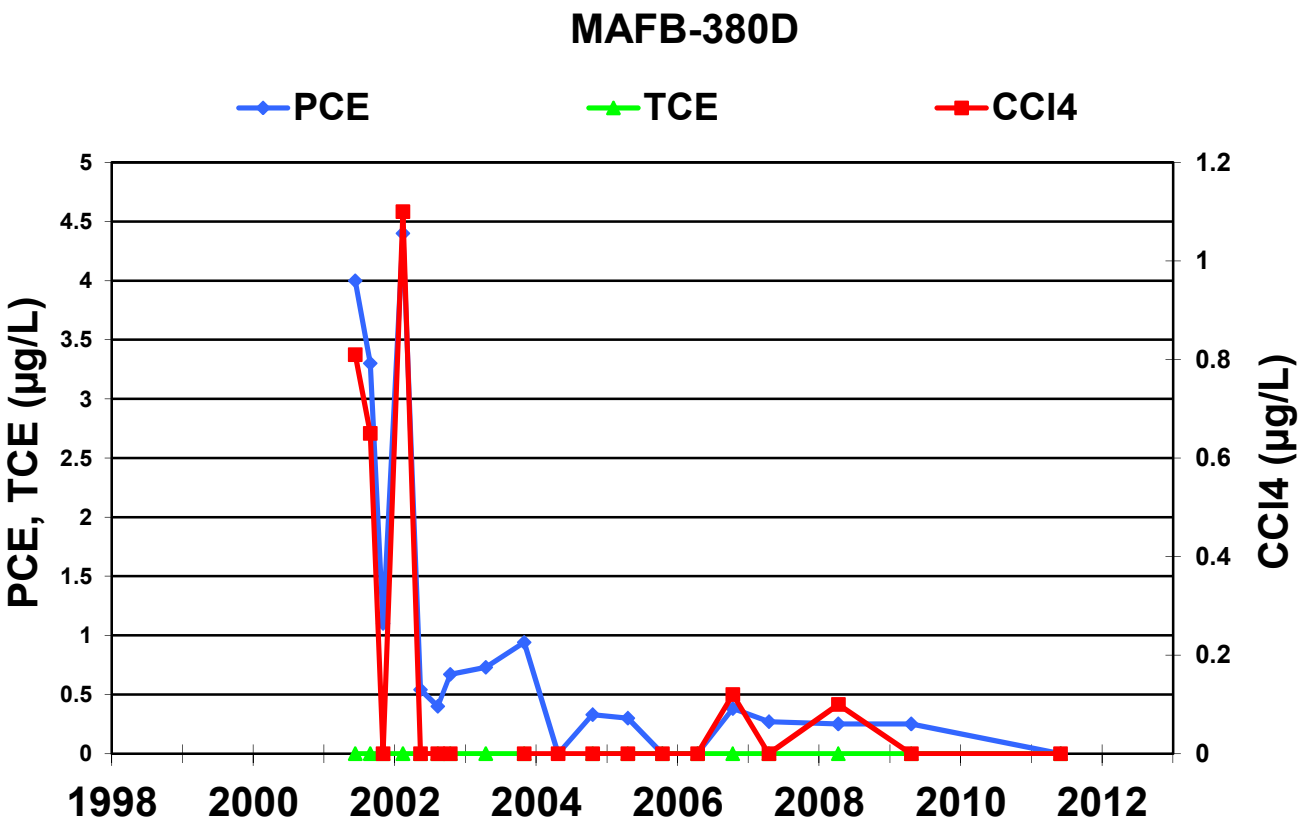

MAFB-378D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

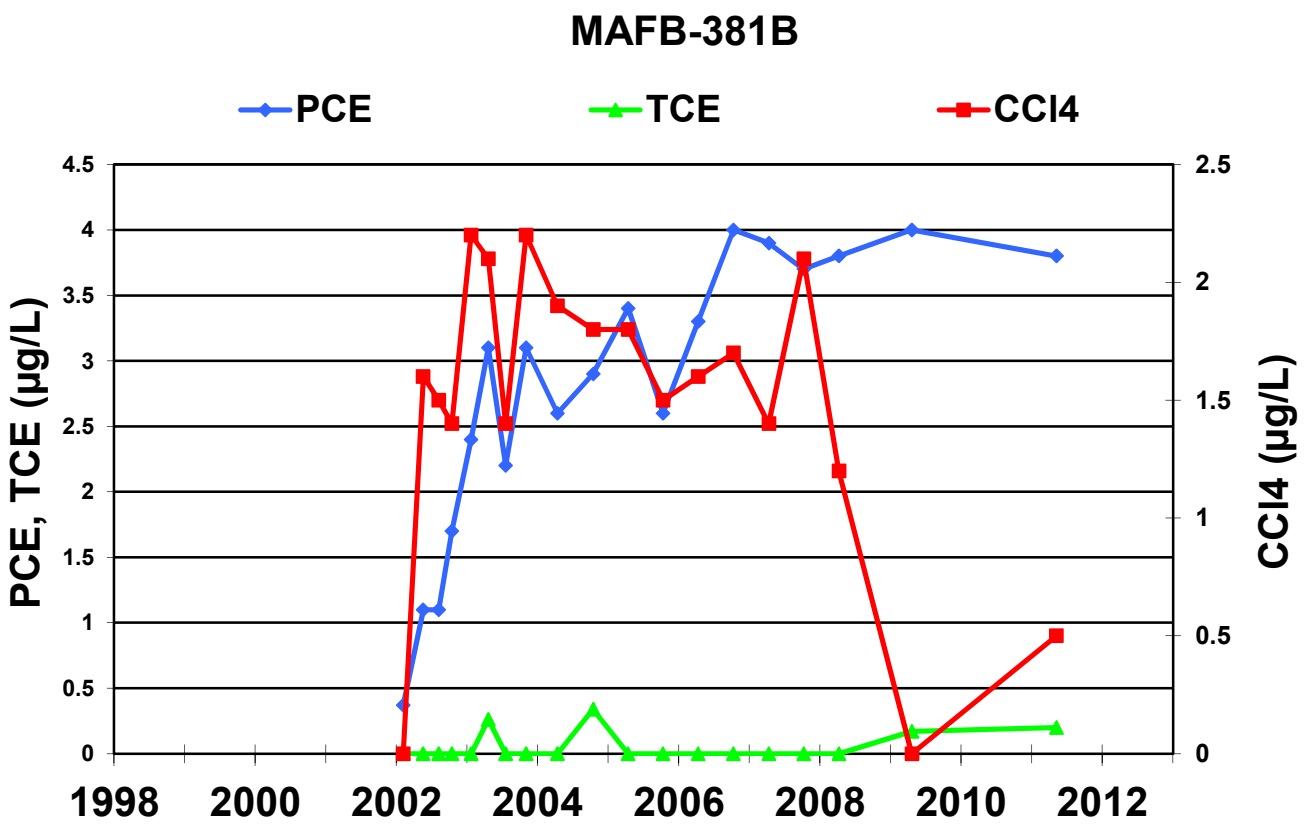

MAFB-379B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
25
20
15
10
5
0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

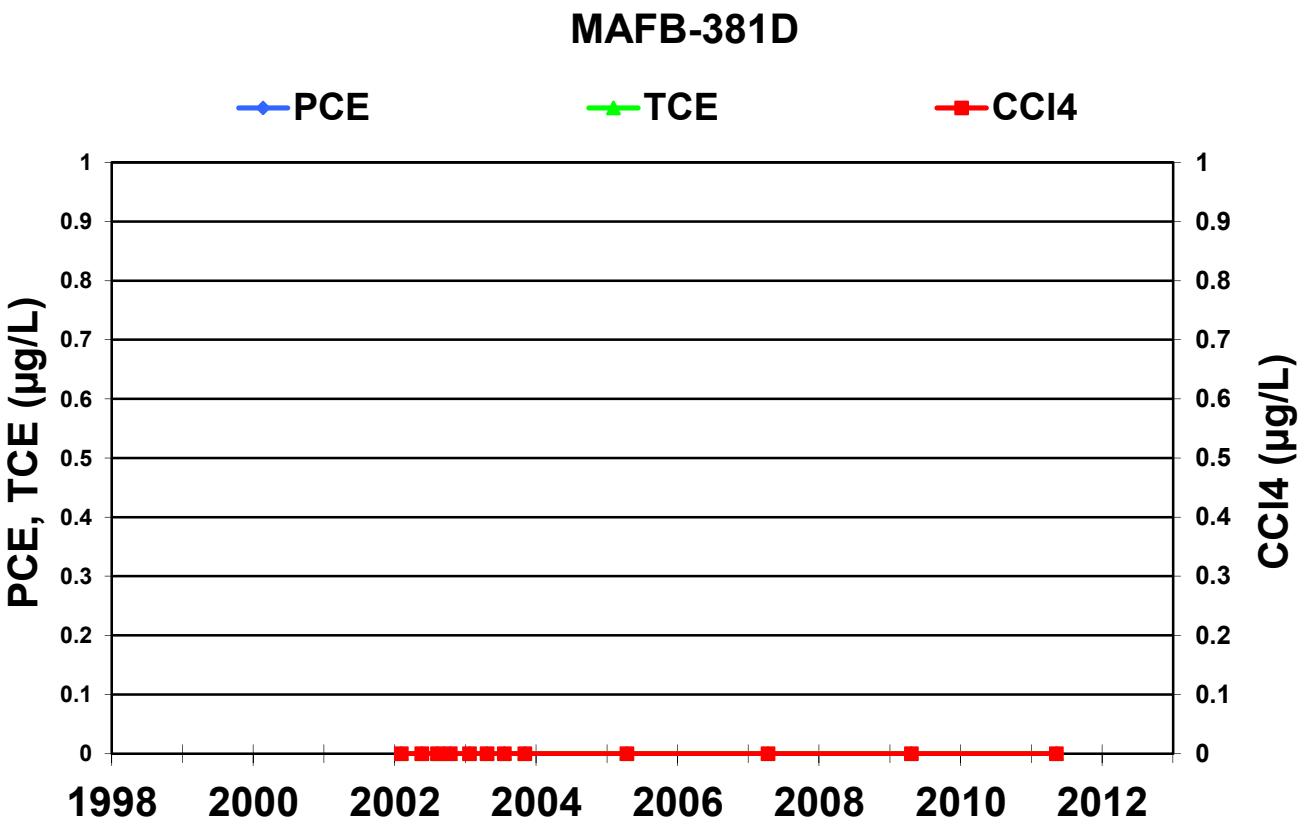

MAFB-379D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
4
3.5
3
2.5
2
1.5
1
0.5
0
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

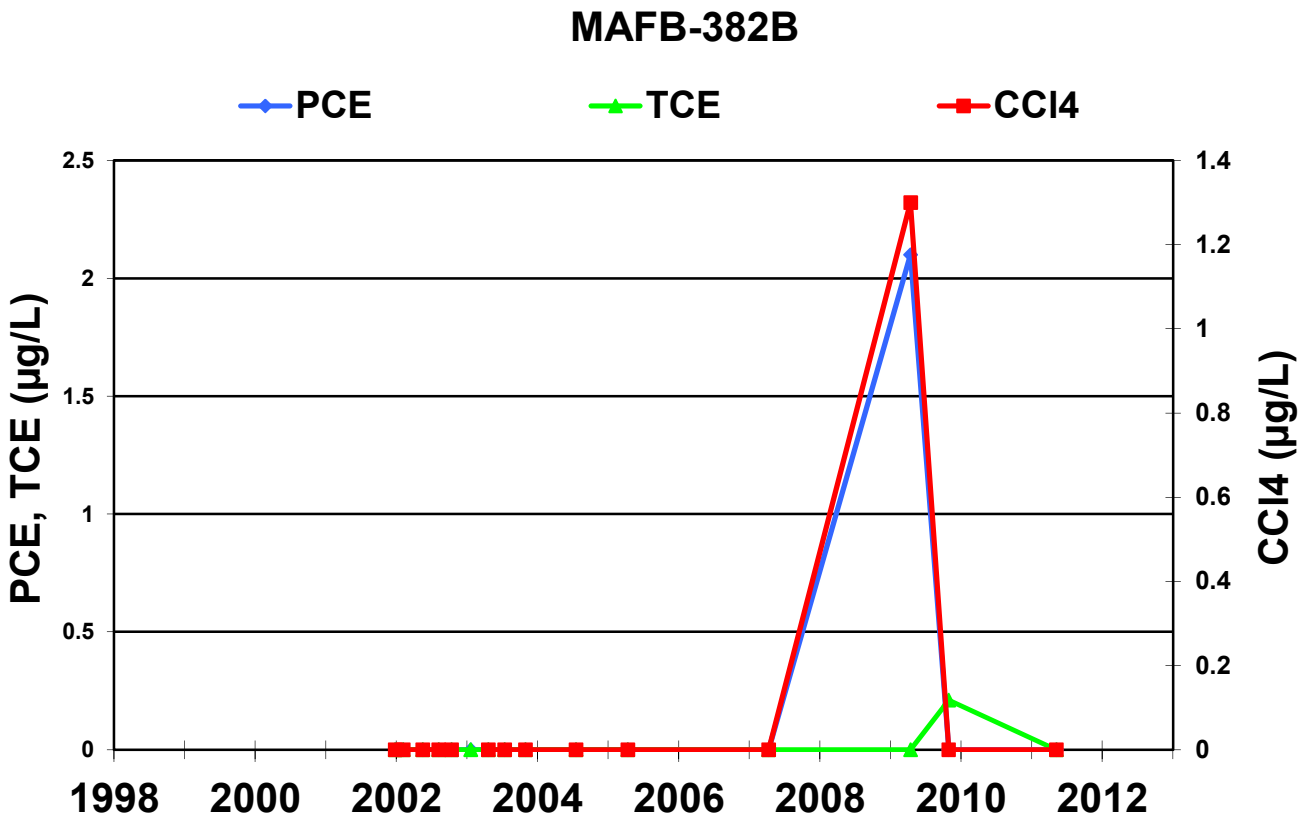

MAFB-380
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

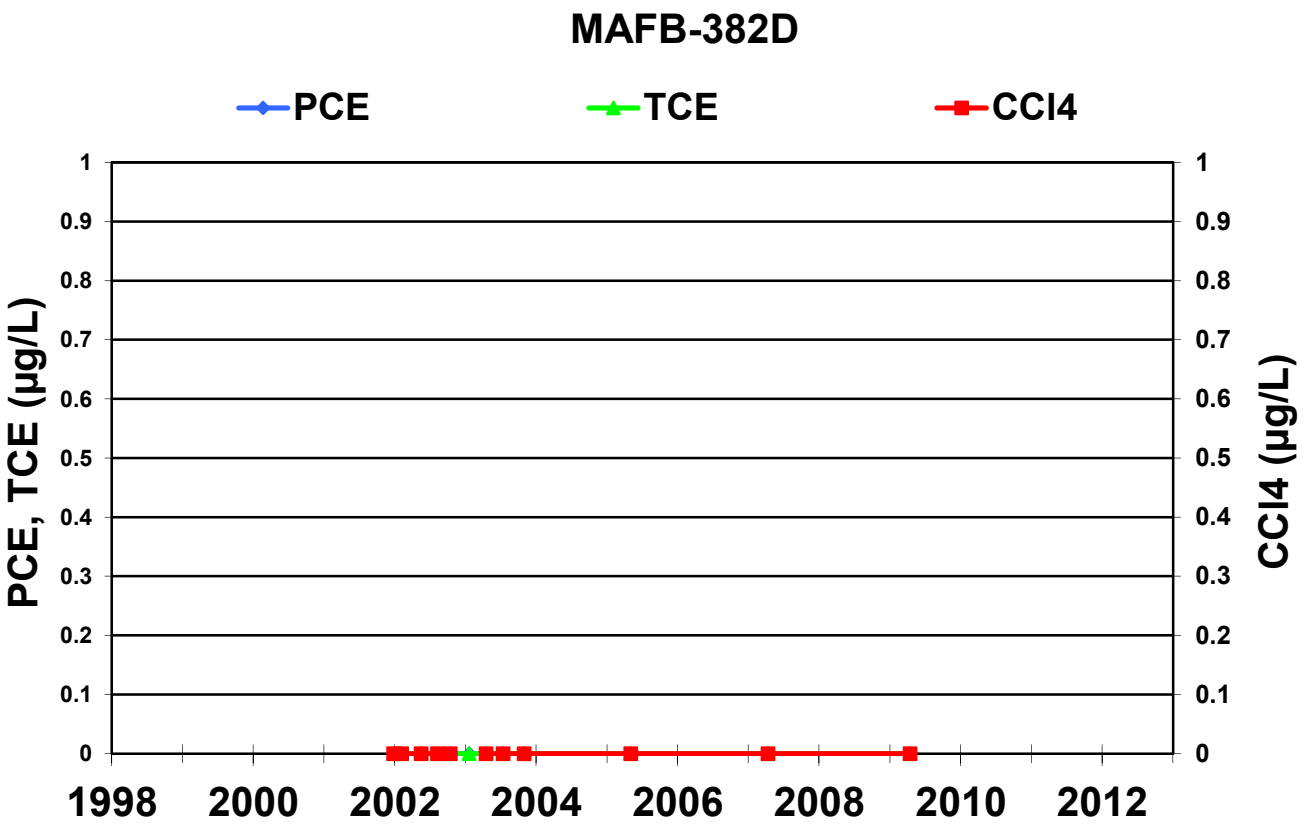

MAFB-380B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3
2.5
2
1.5
1
0.5
0
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

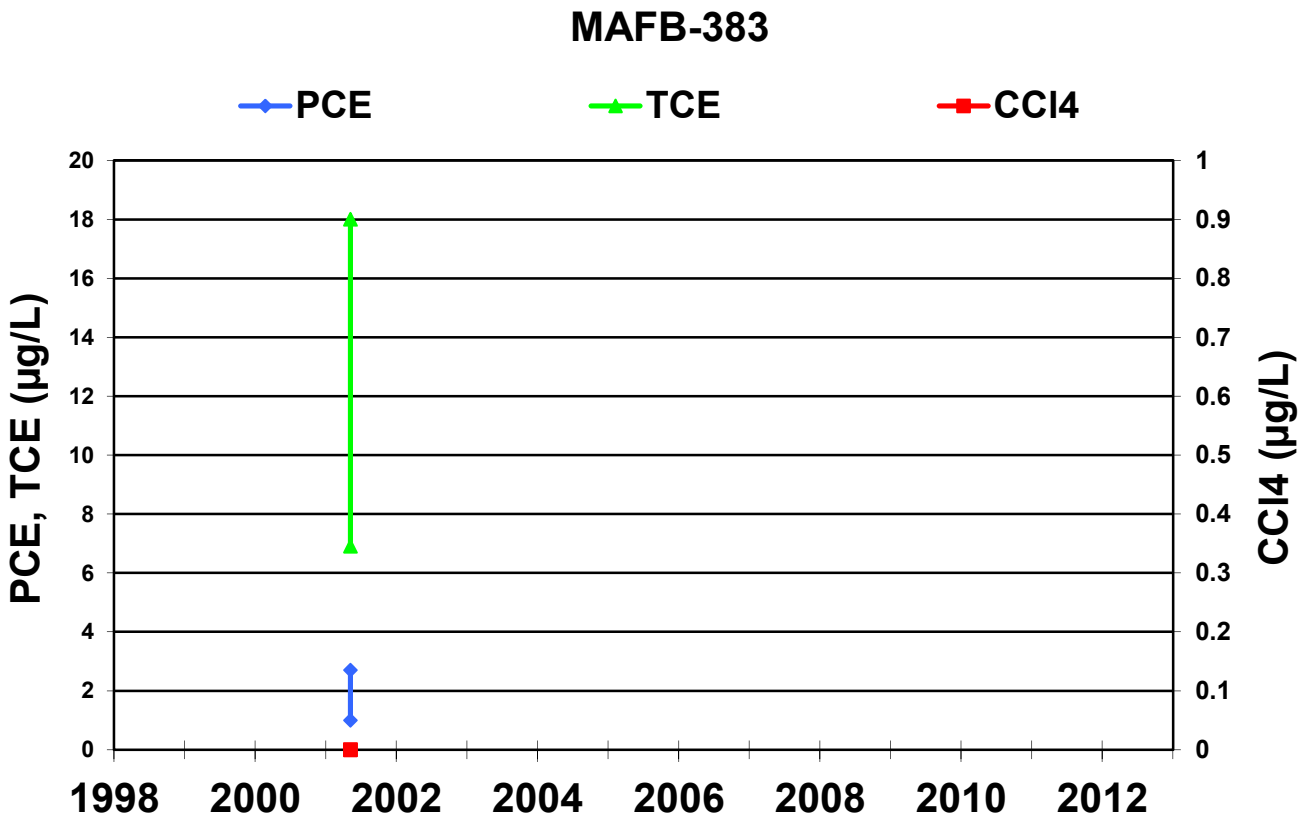

MAFB-380D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

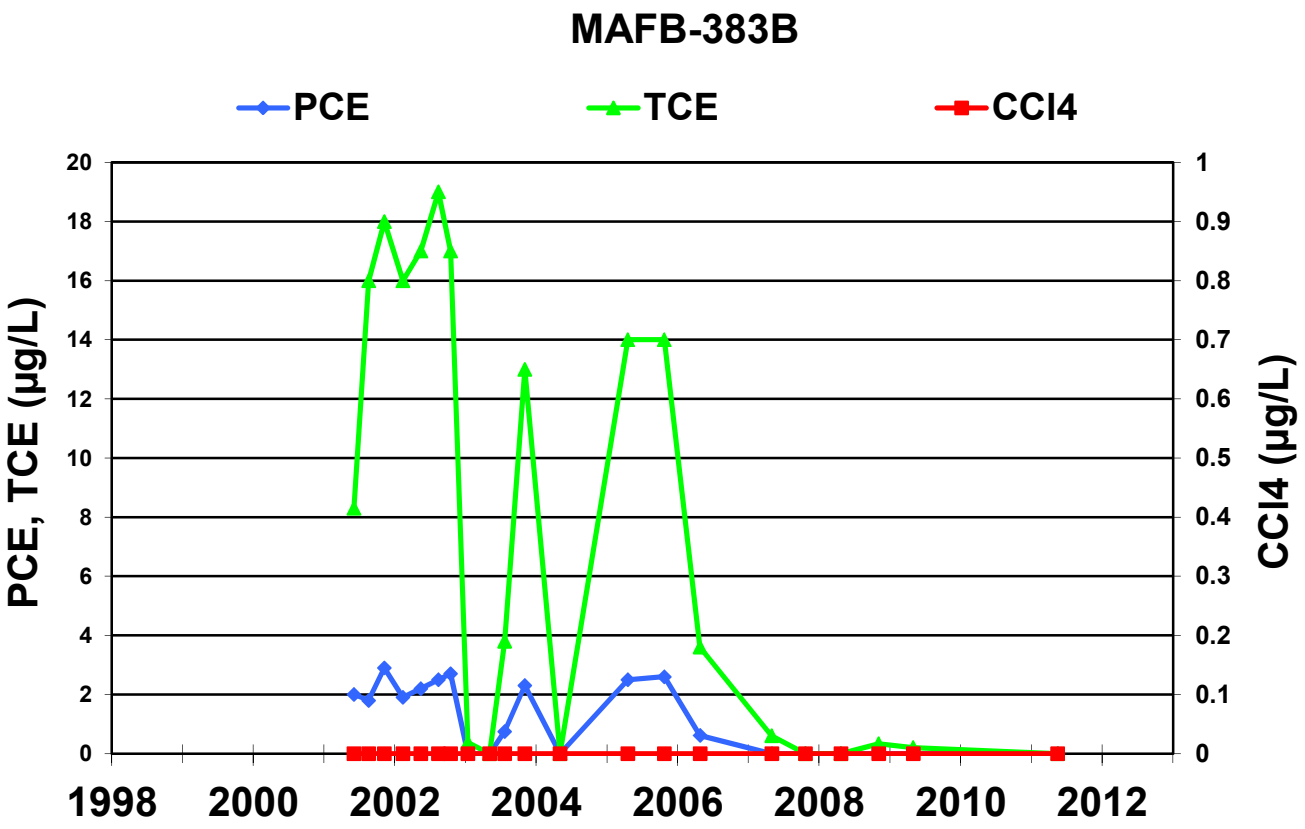

MAFB-381B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

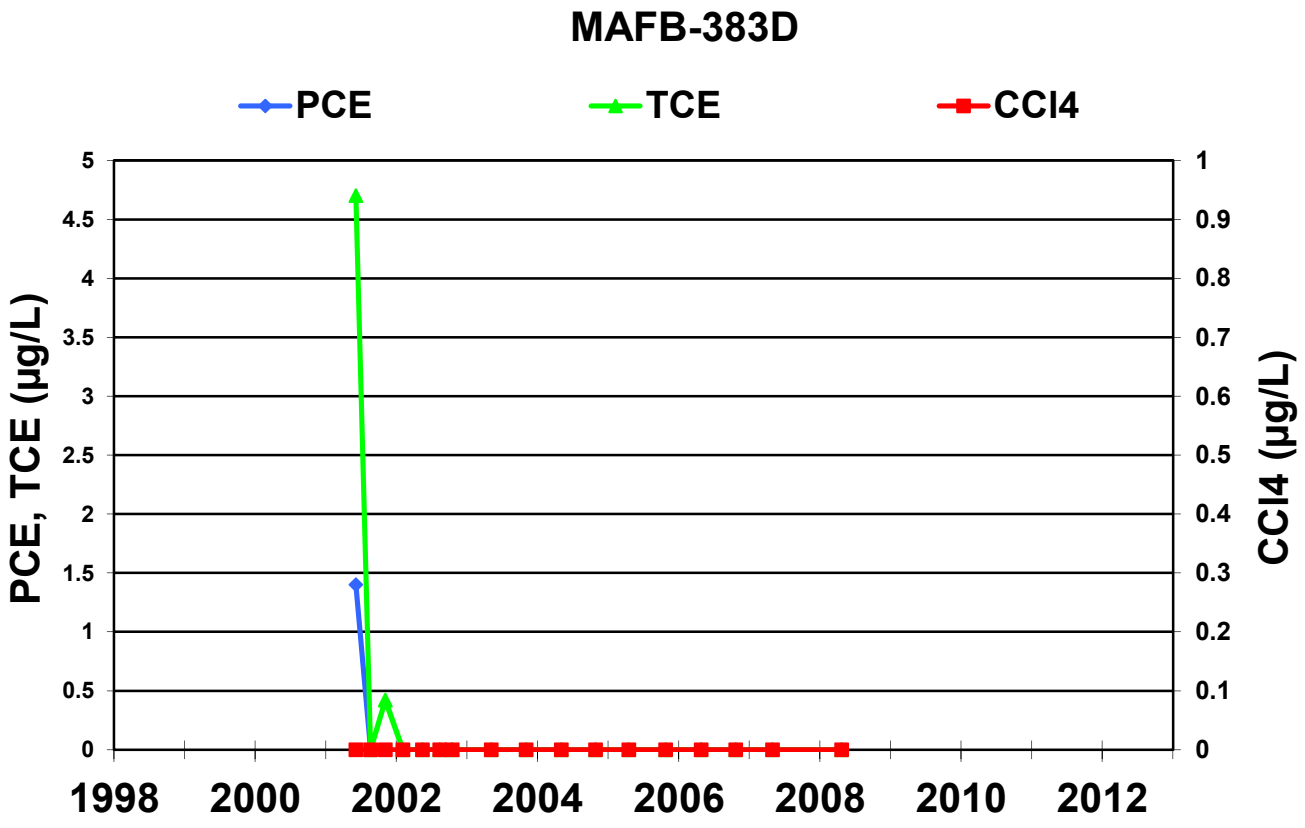

MAFB-381D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

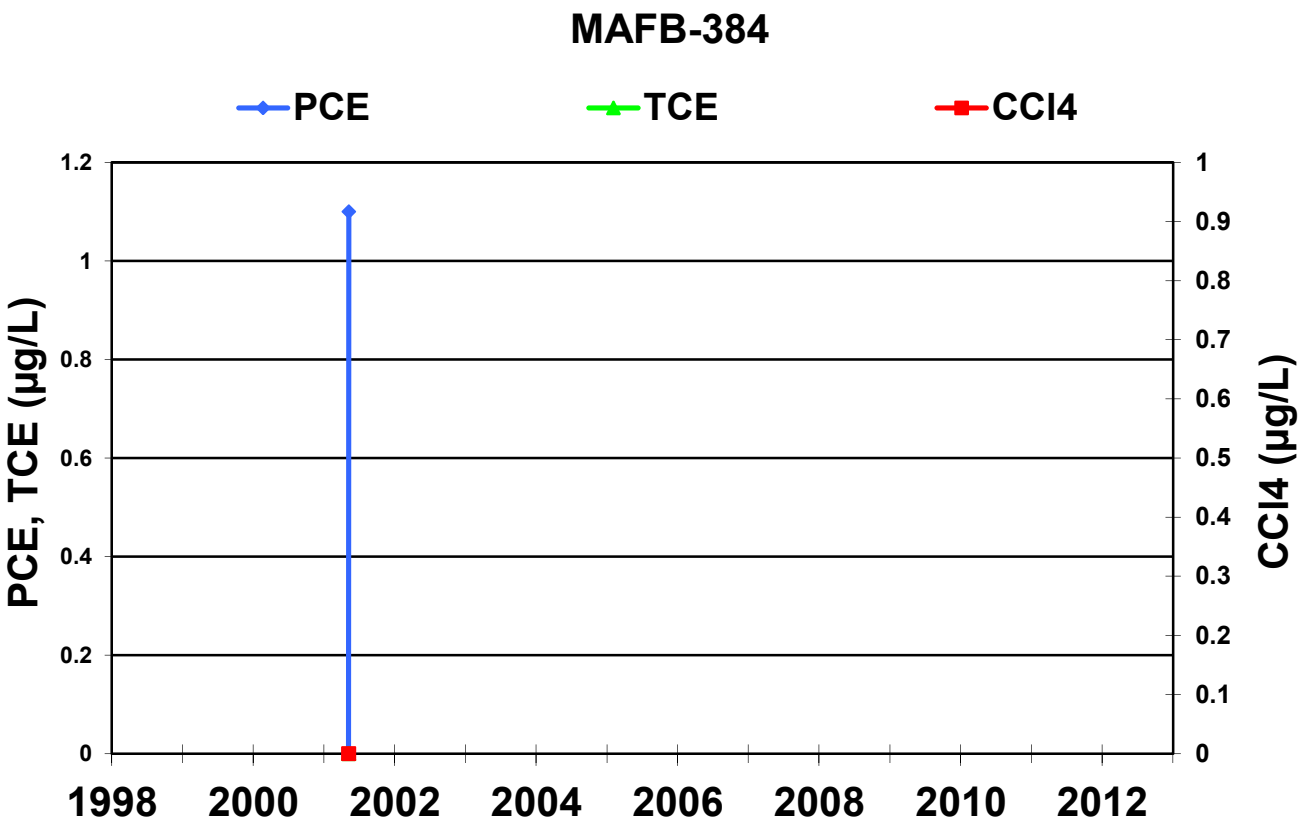

MAFB-382B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
2.5
2
1.5
1
0.5
0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

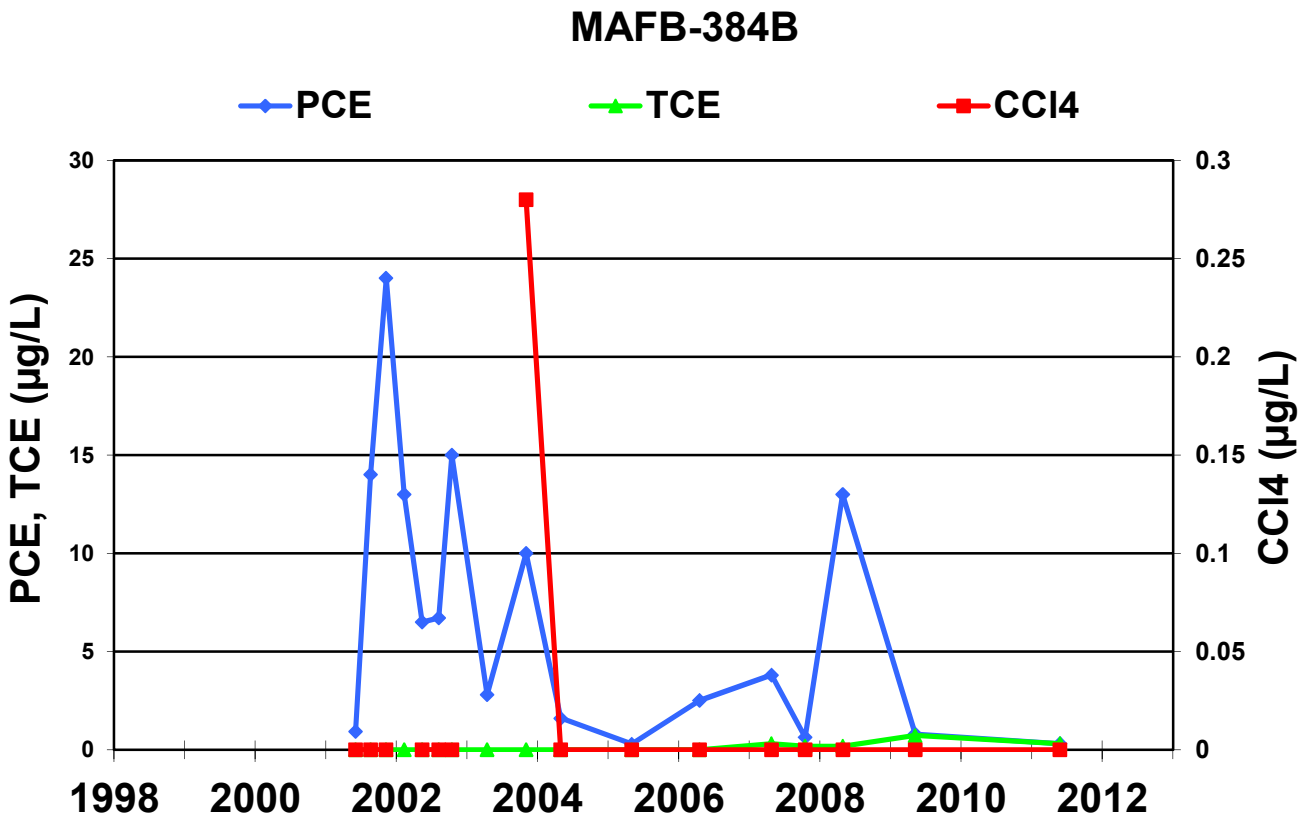

MAFB-382D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

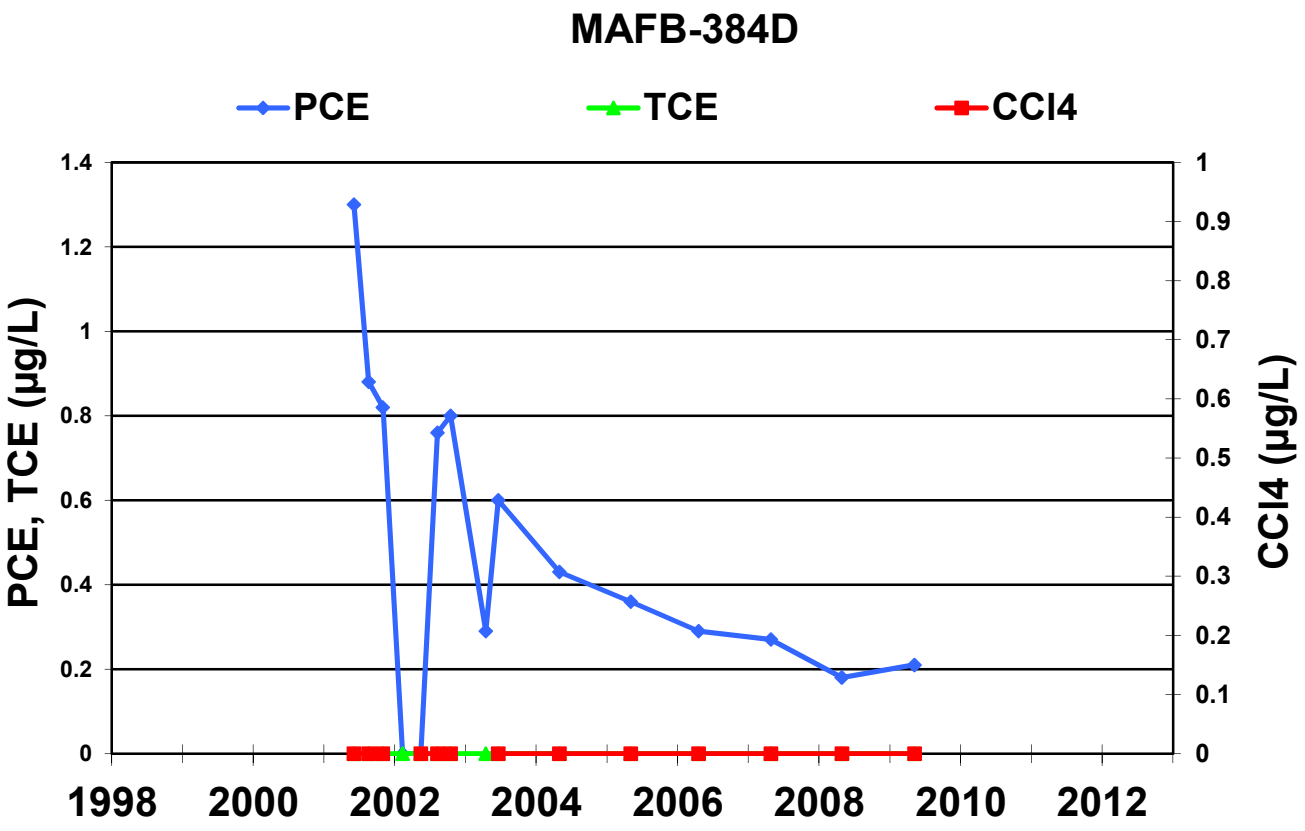

MAFB-383
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
20
18
16
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

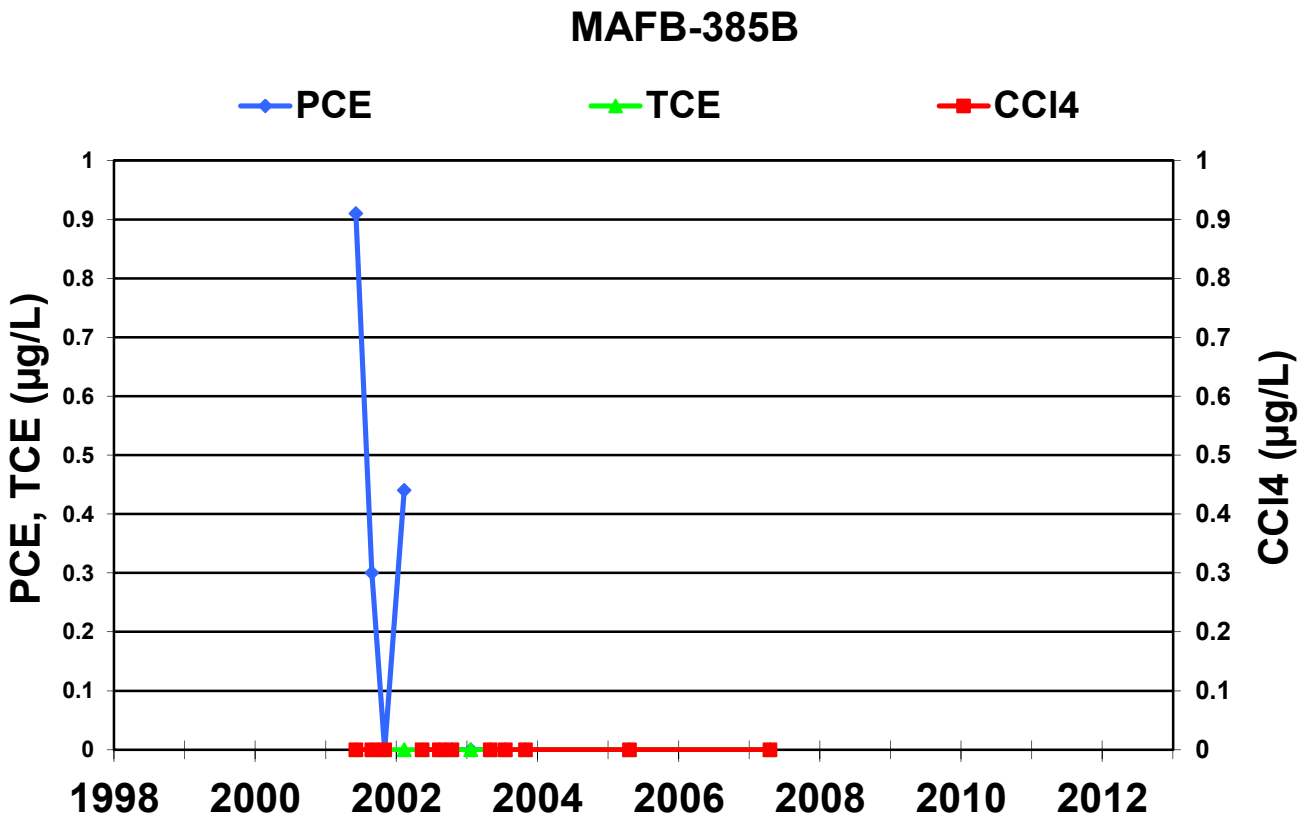

MAFB-383B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
20
18
16
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

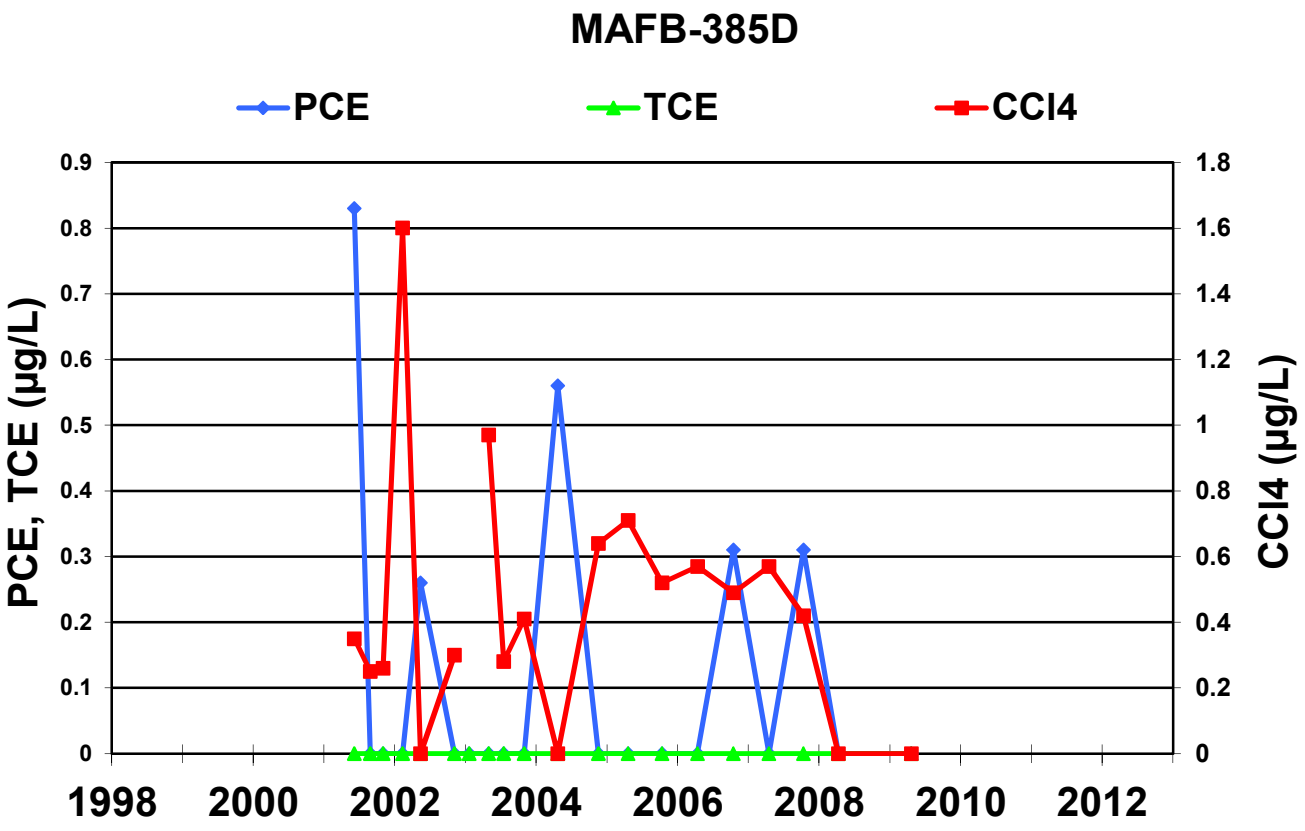

MAFB-383D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

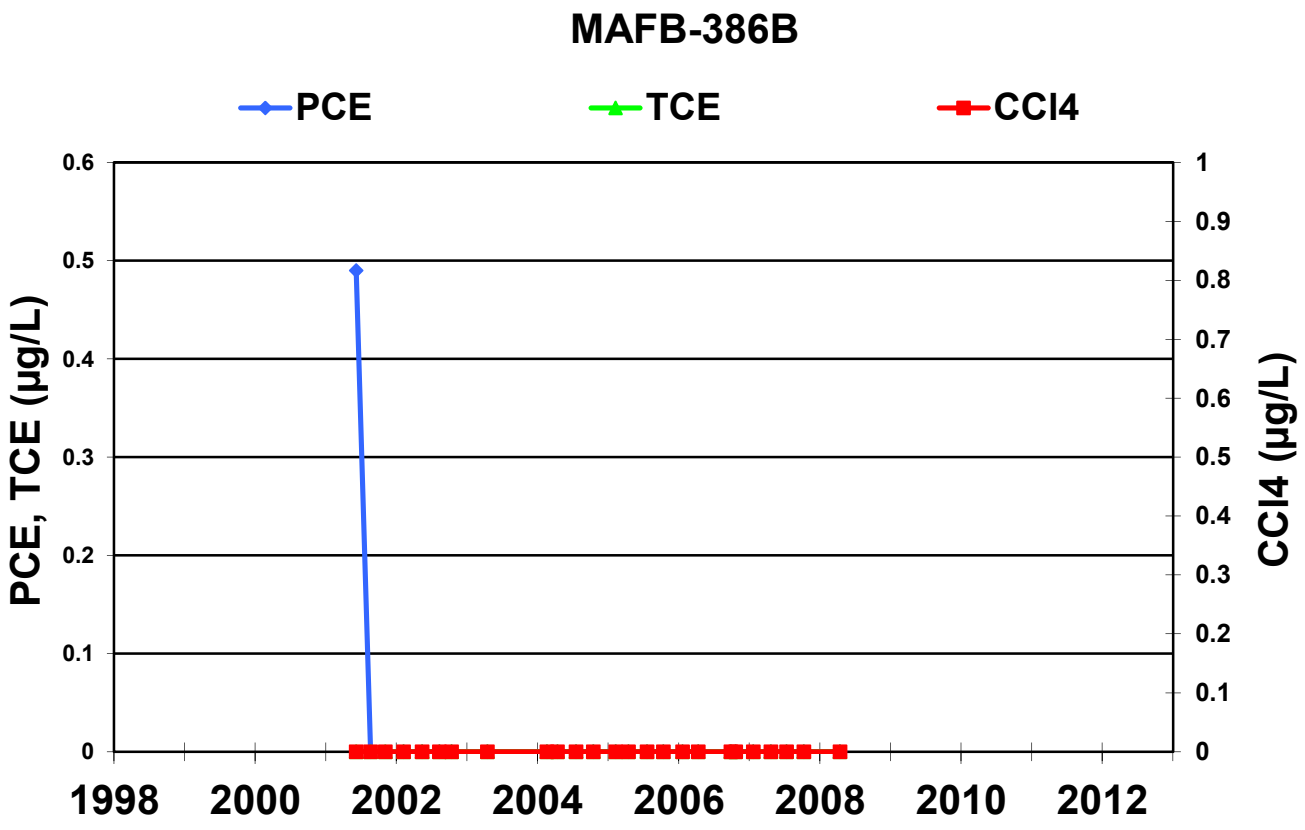

MAFB-384
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

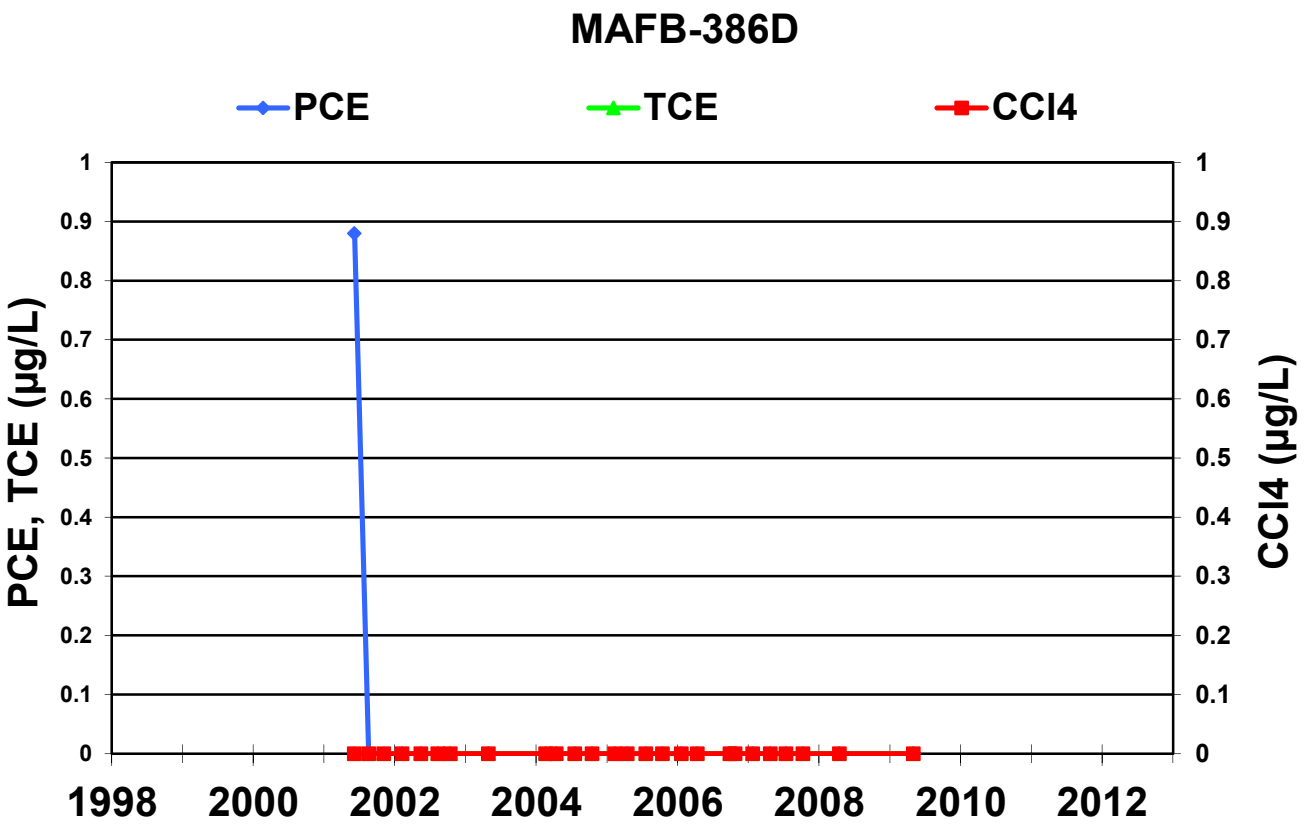

MAFB-384B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
30
25
20
15
10
5
0
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

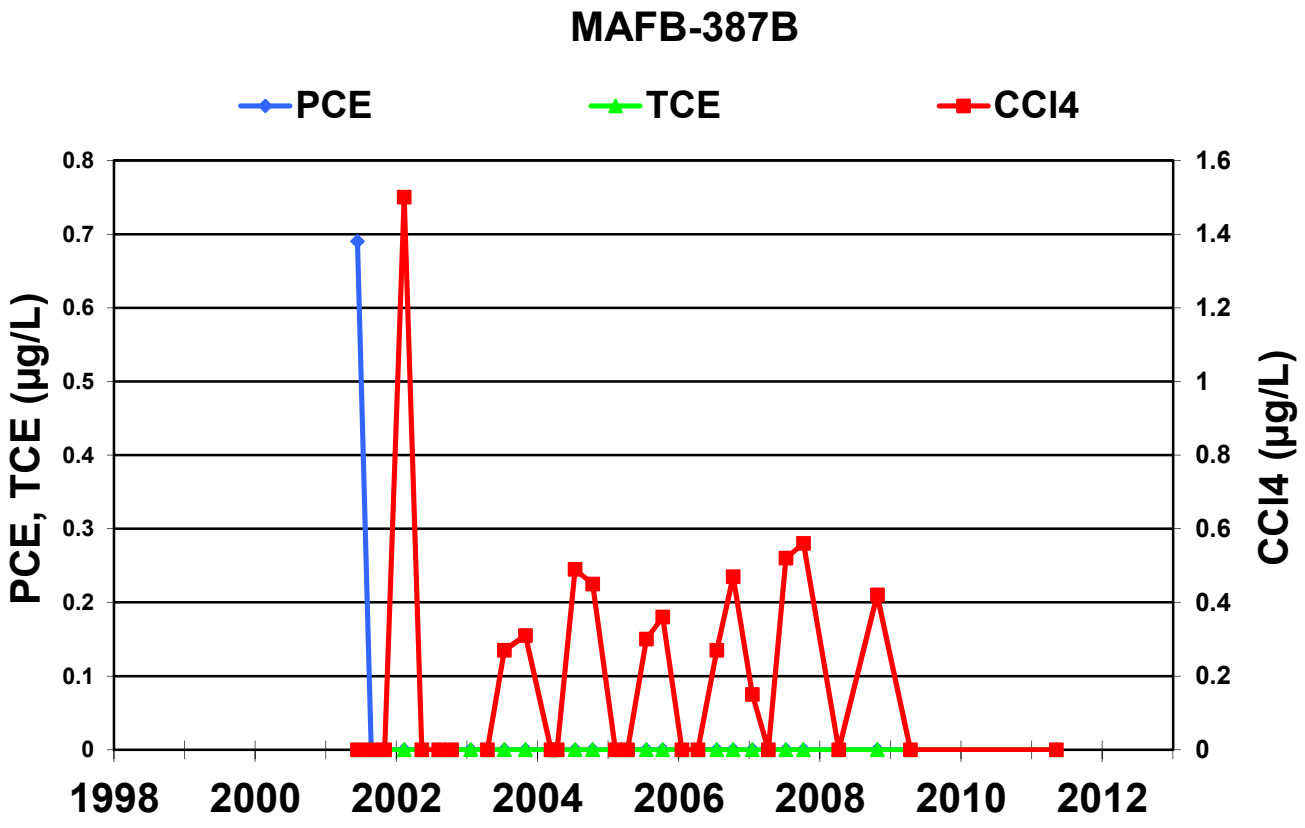

MAFB-384D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

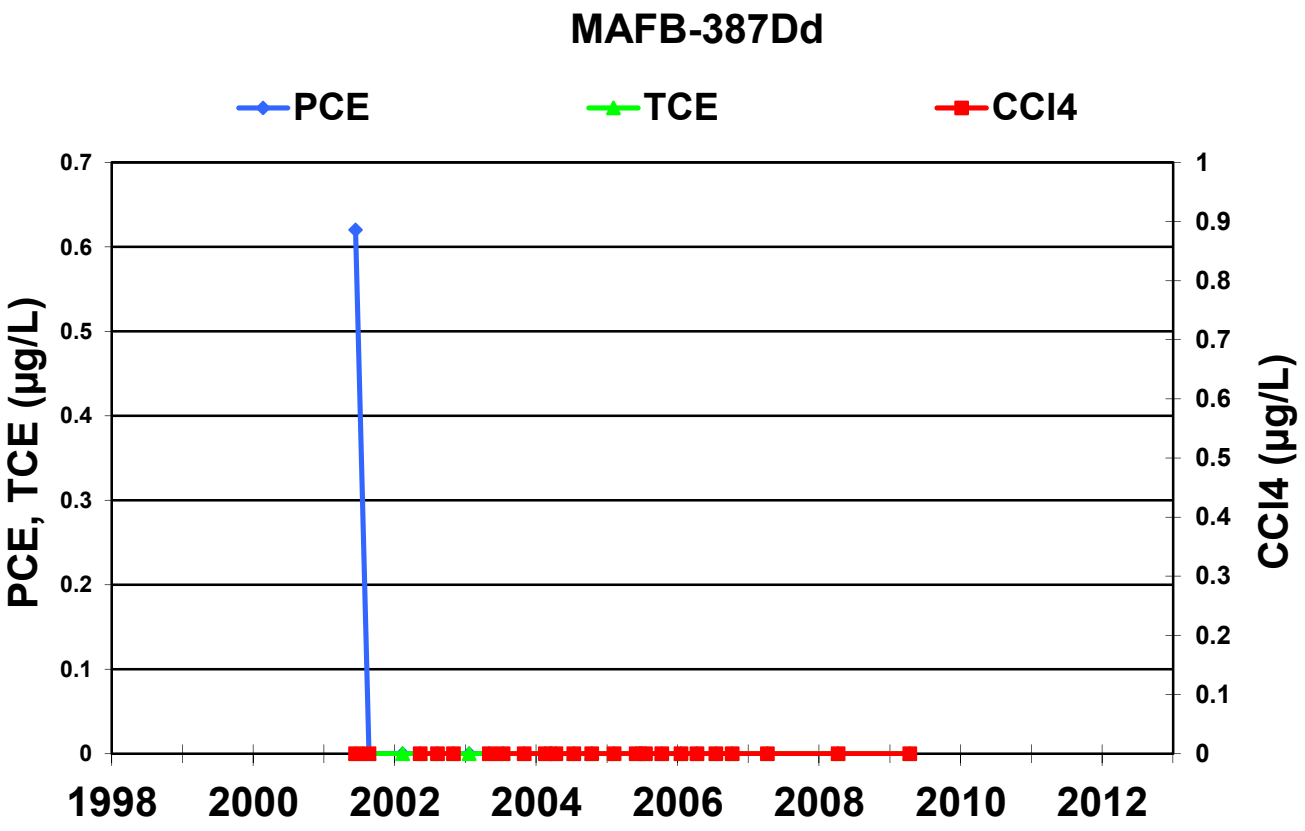

MAFB-385B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

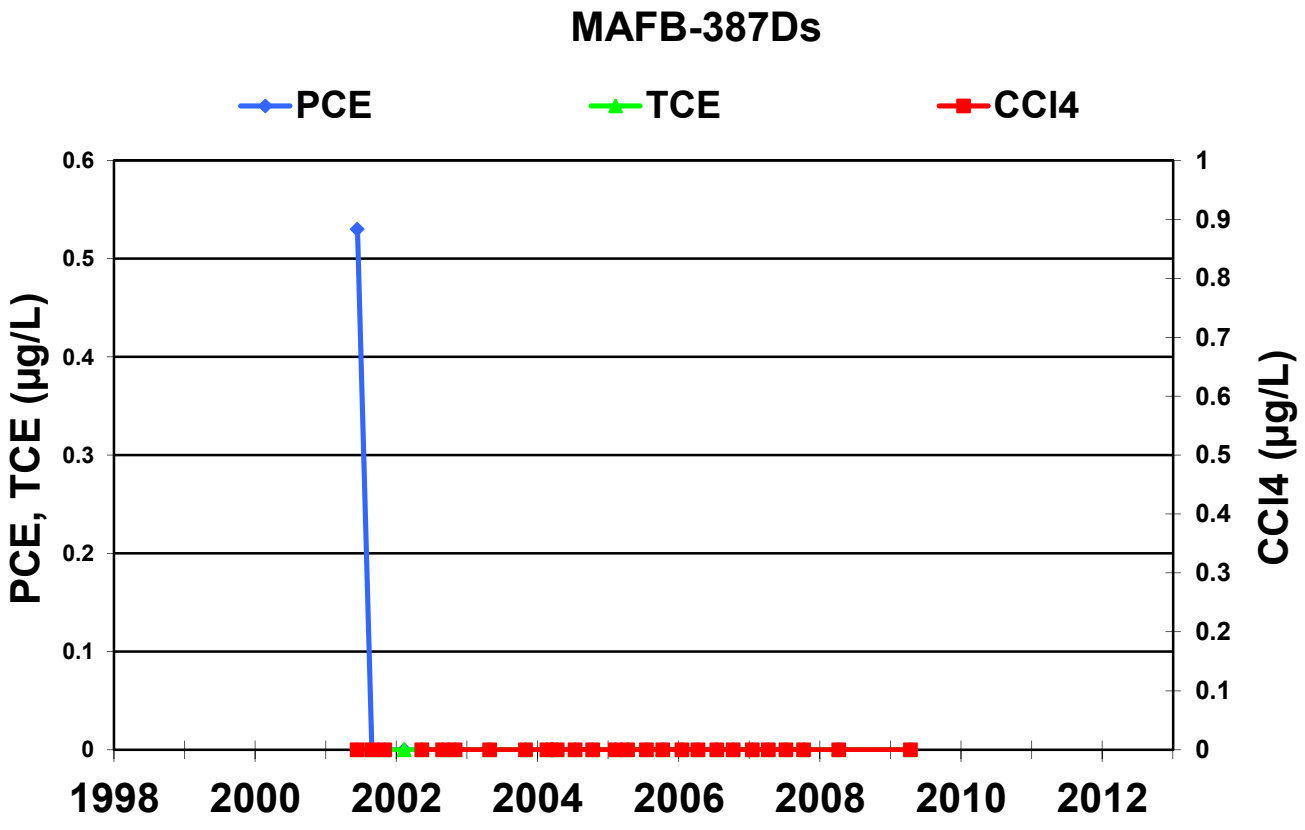

MAFB-385D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

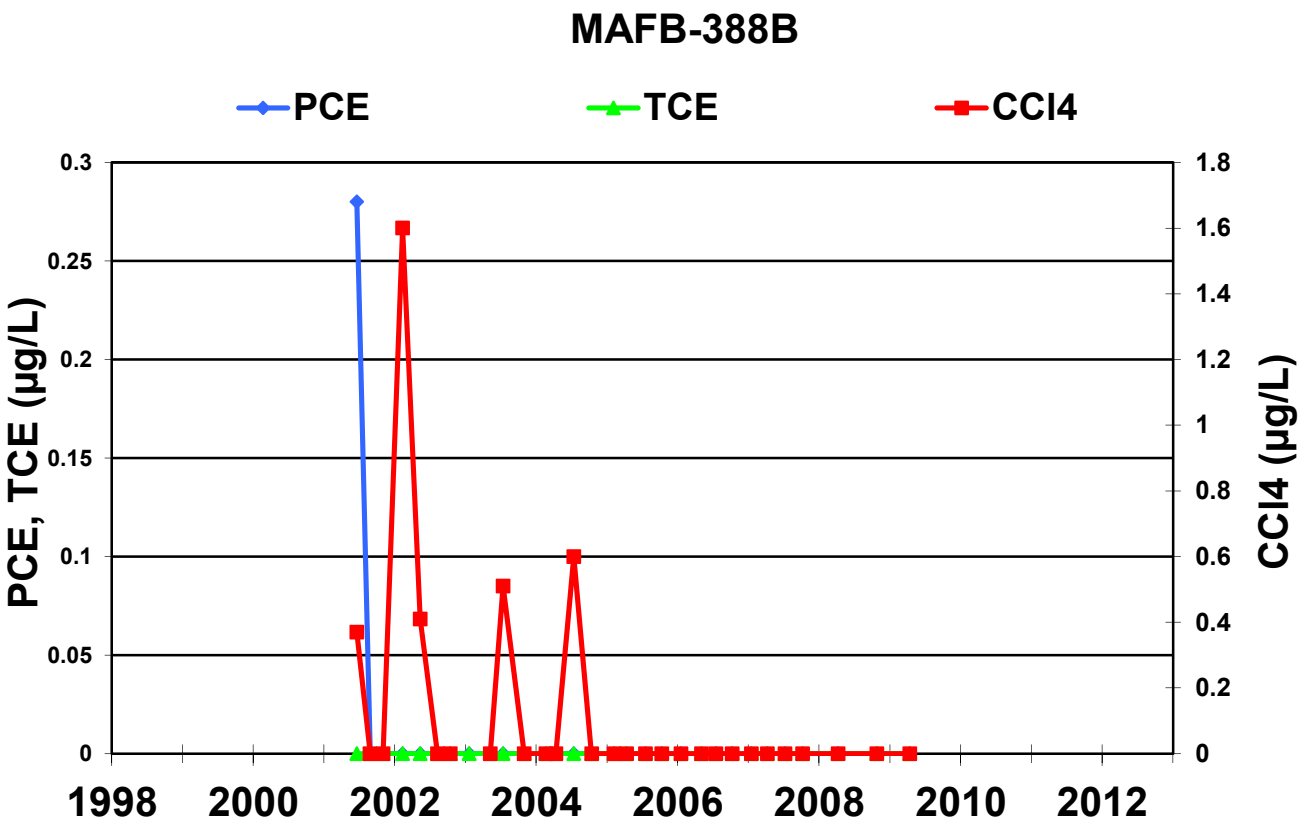

MAFB-386B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

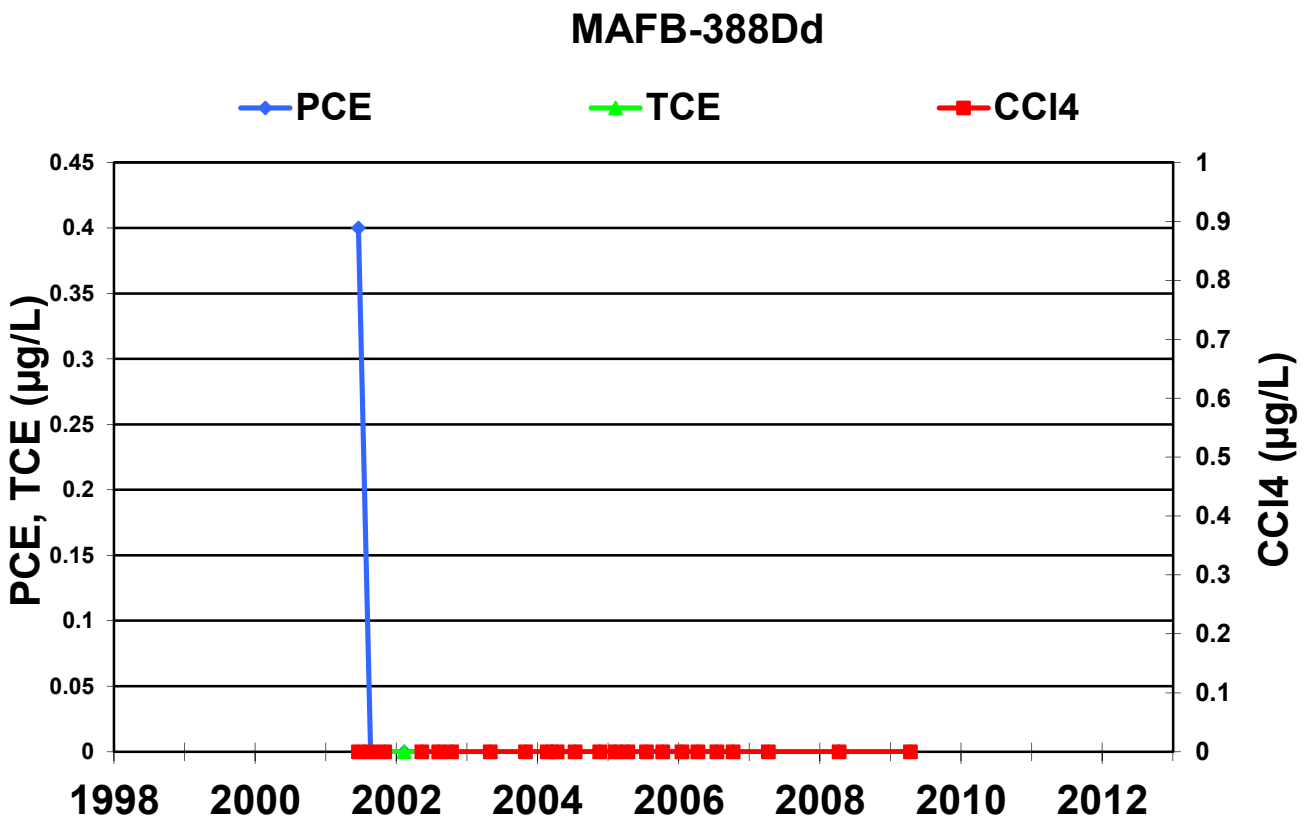

MAFB-386D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

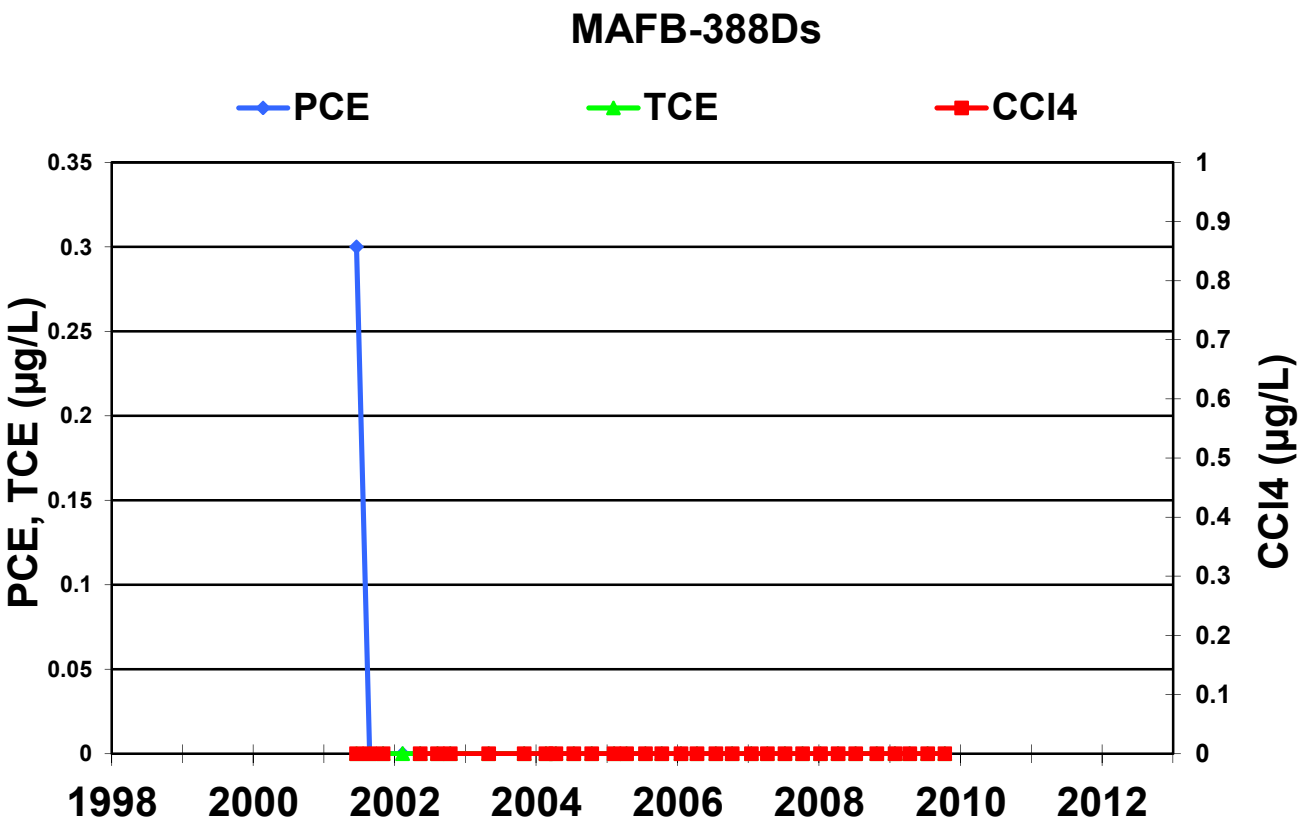

MAFB-387B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

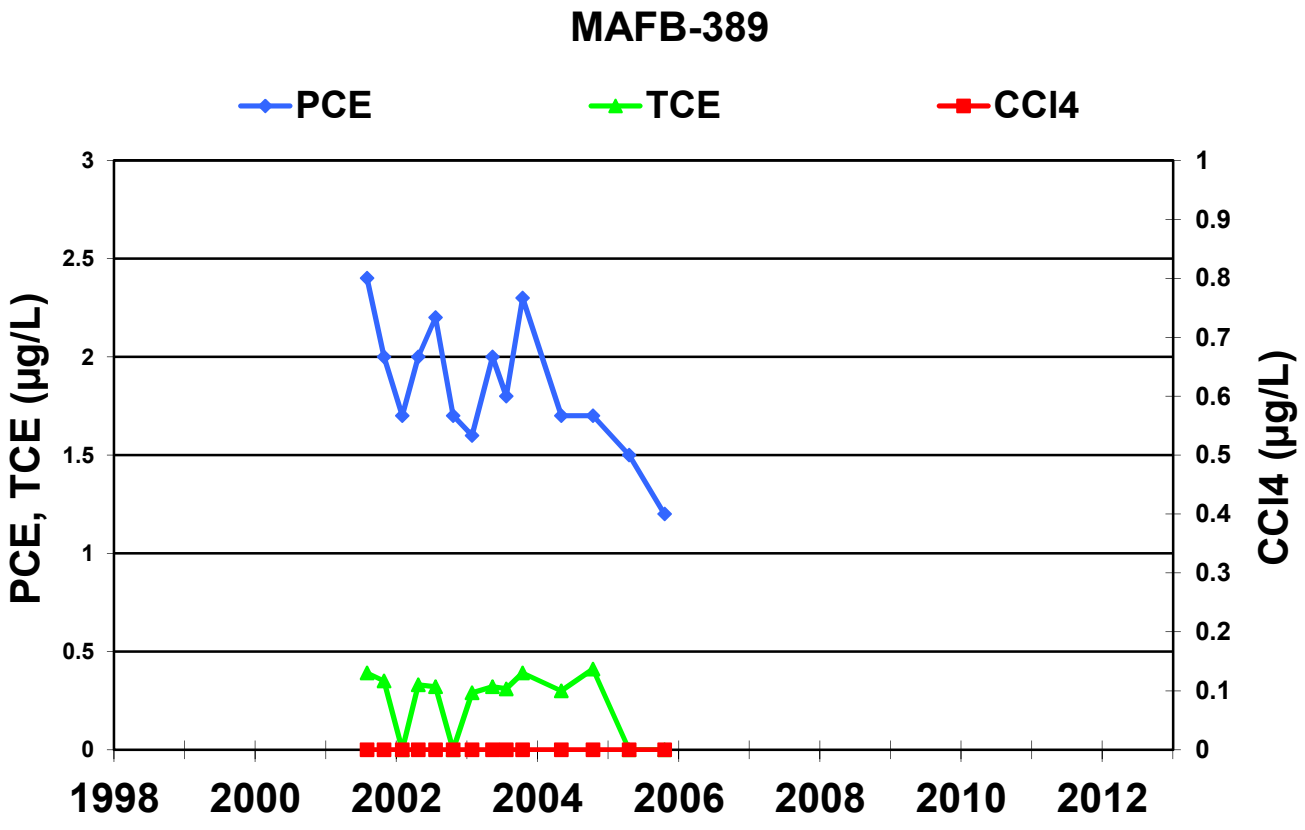

MAFB-387Dd
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

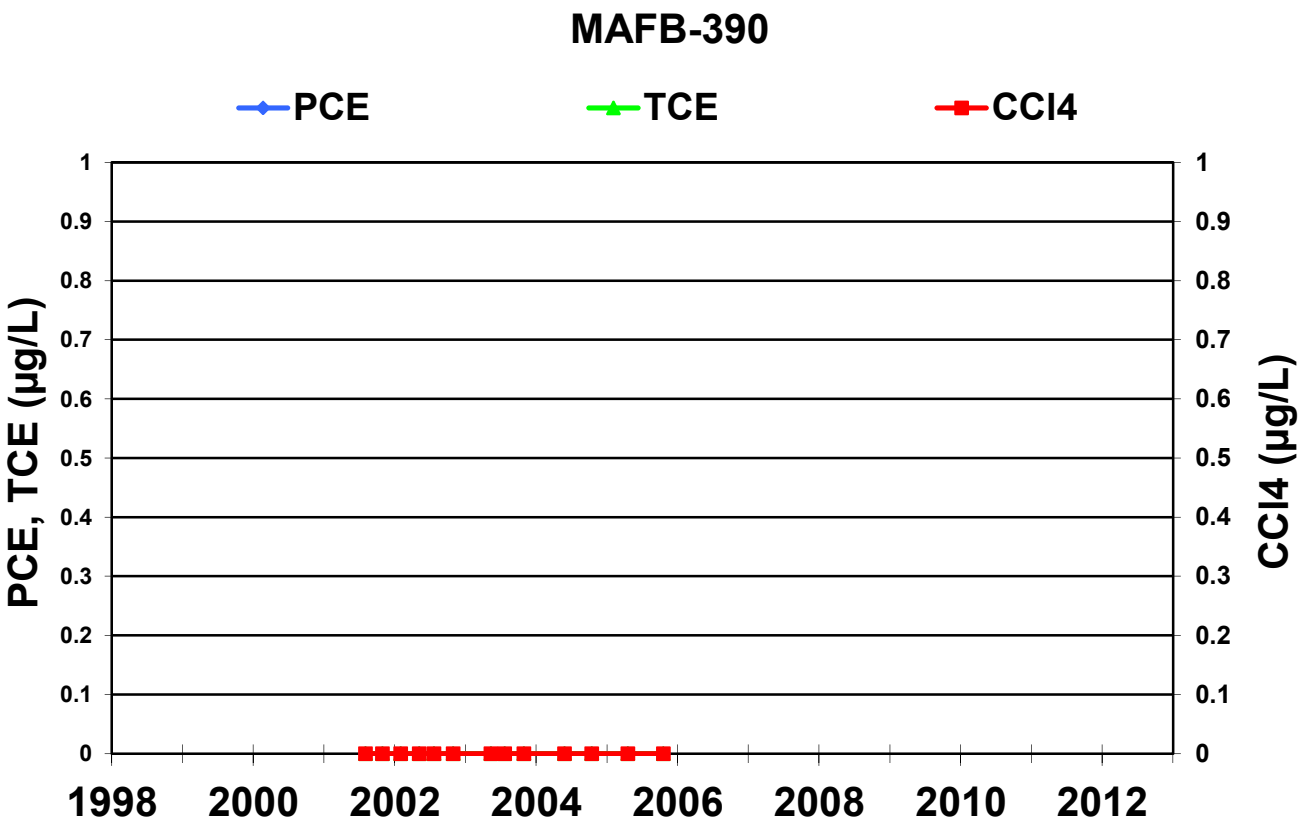

MAFB-387Ds
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

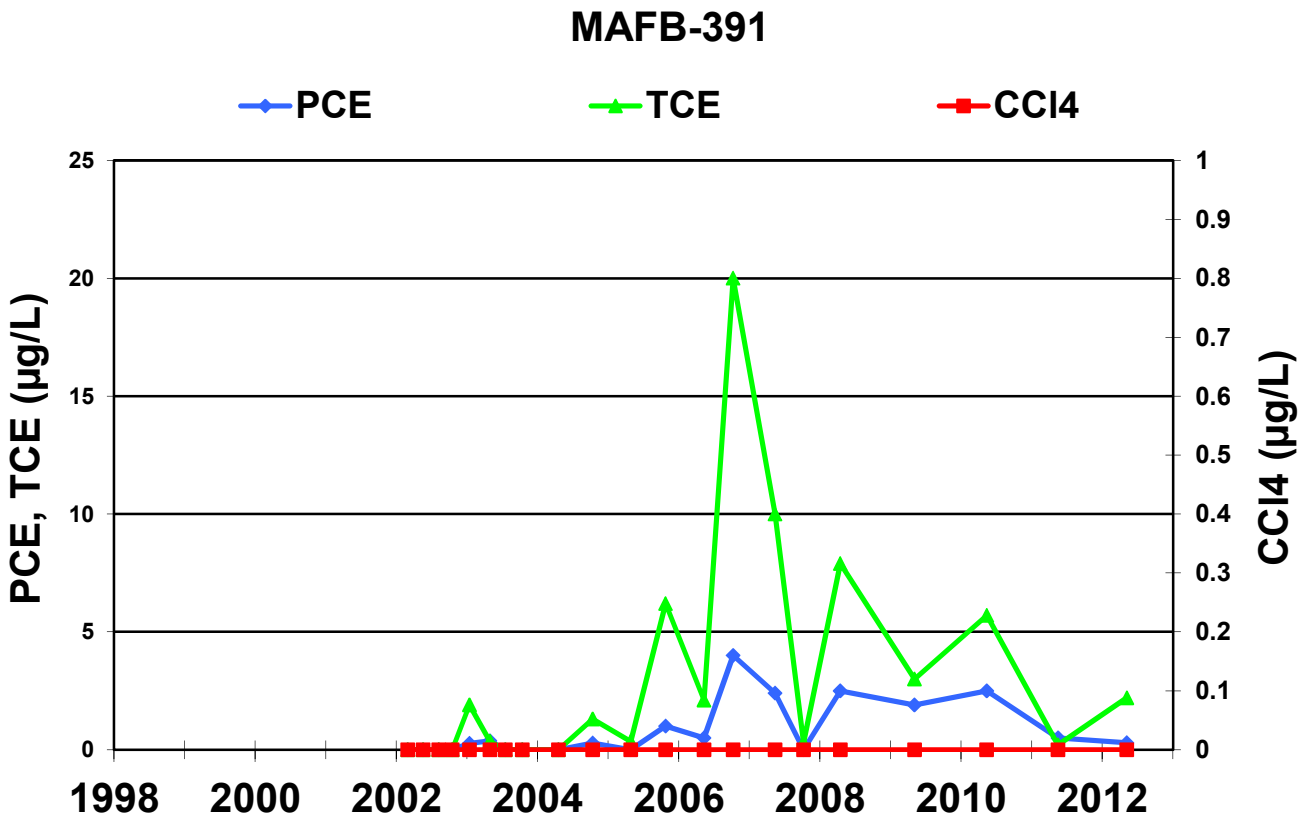

MAFB-388B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.3
0.25
0.2
0.15
0.1
0.05
0
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

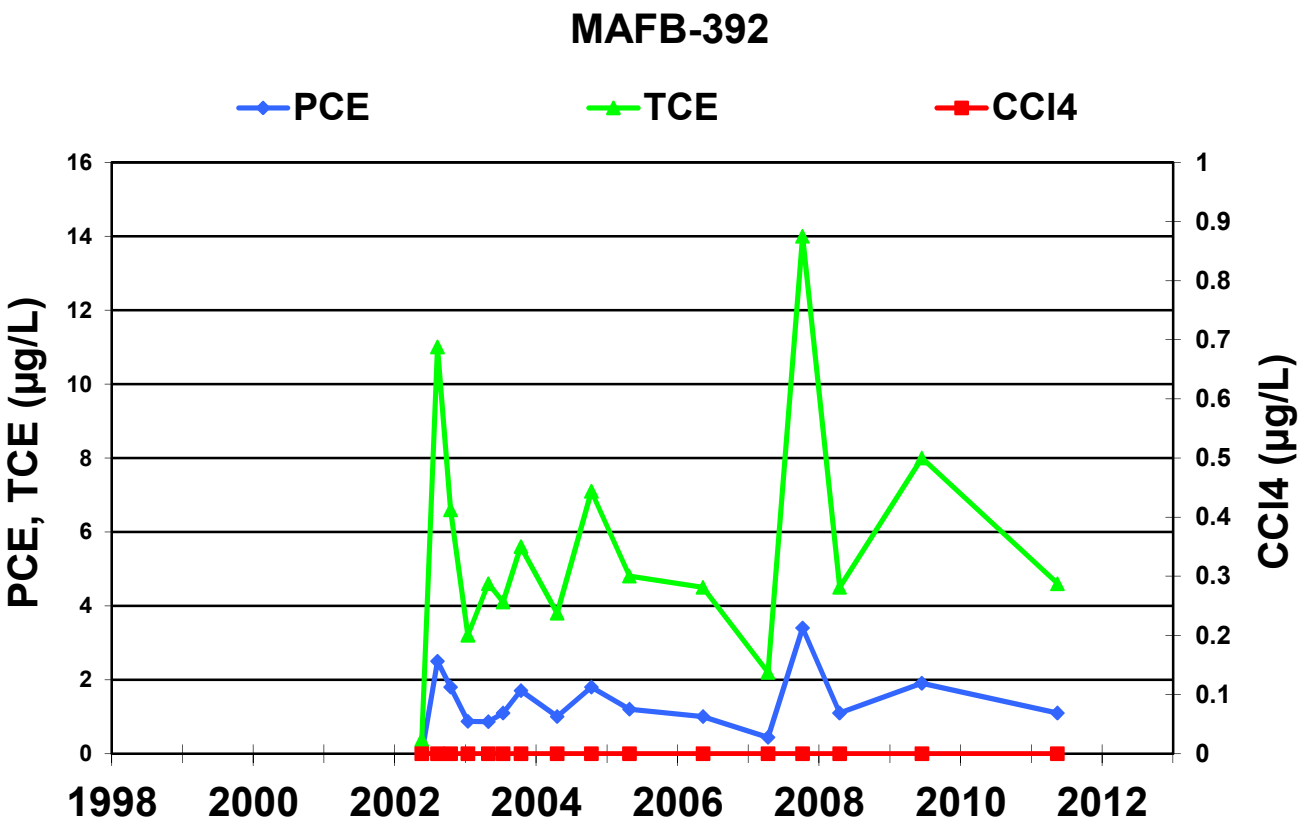

MAFB-388Dd
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

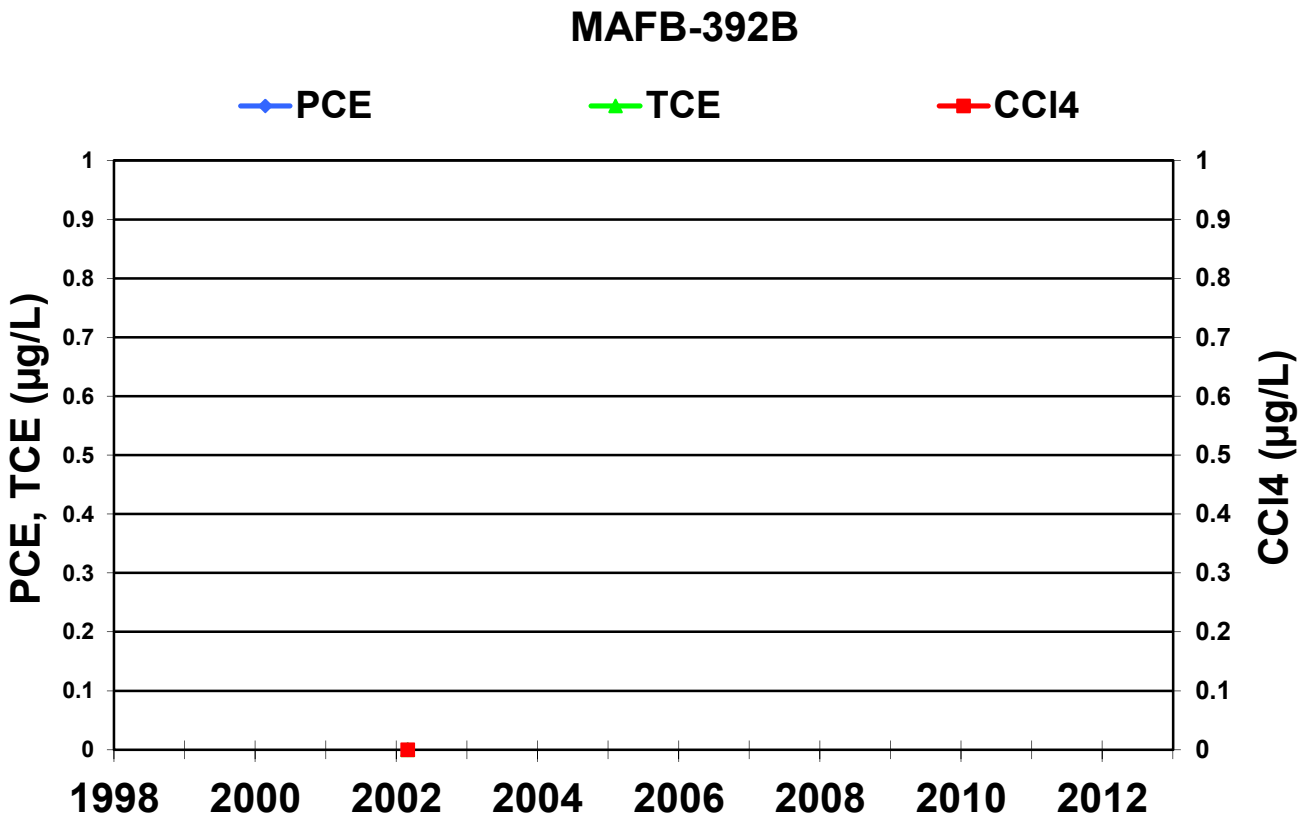

MAFB-388Ds
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

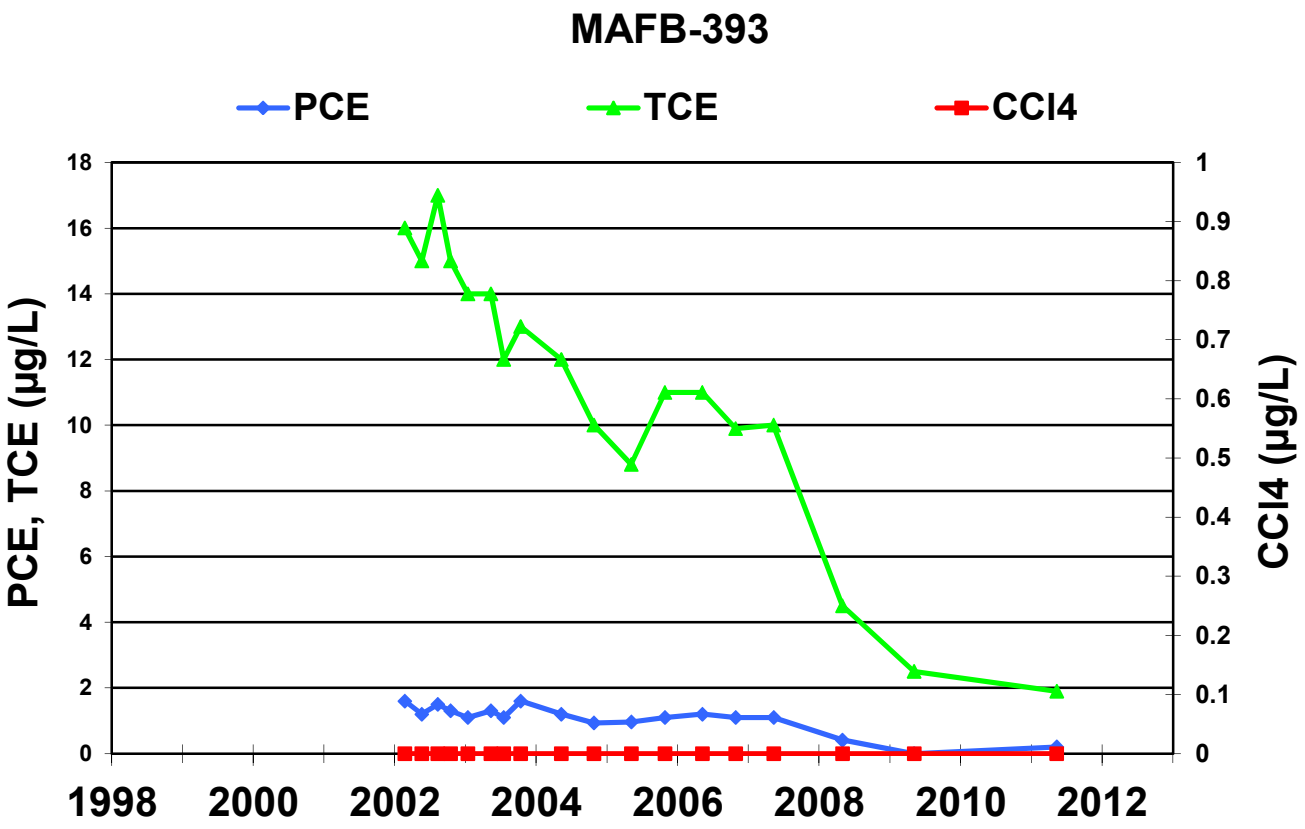

MAFB-389
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

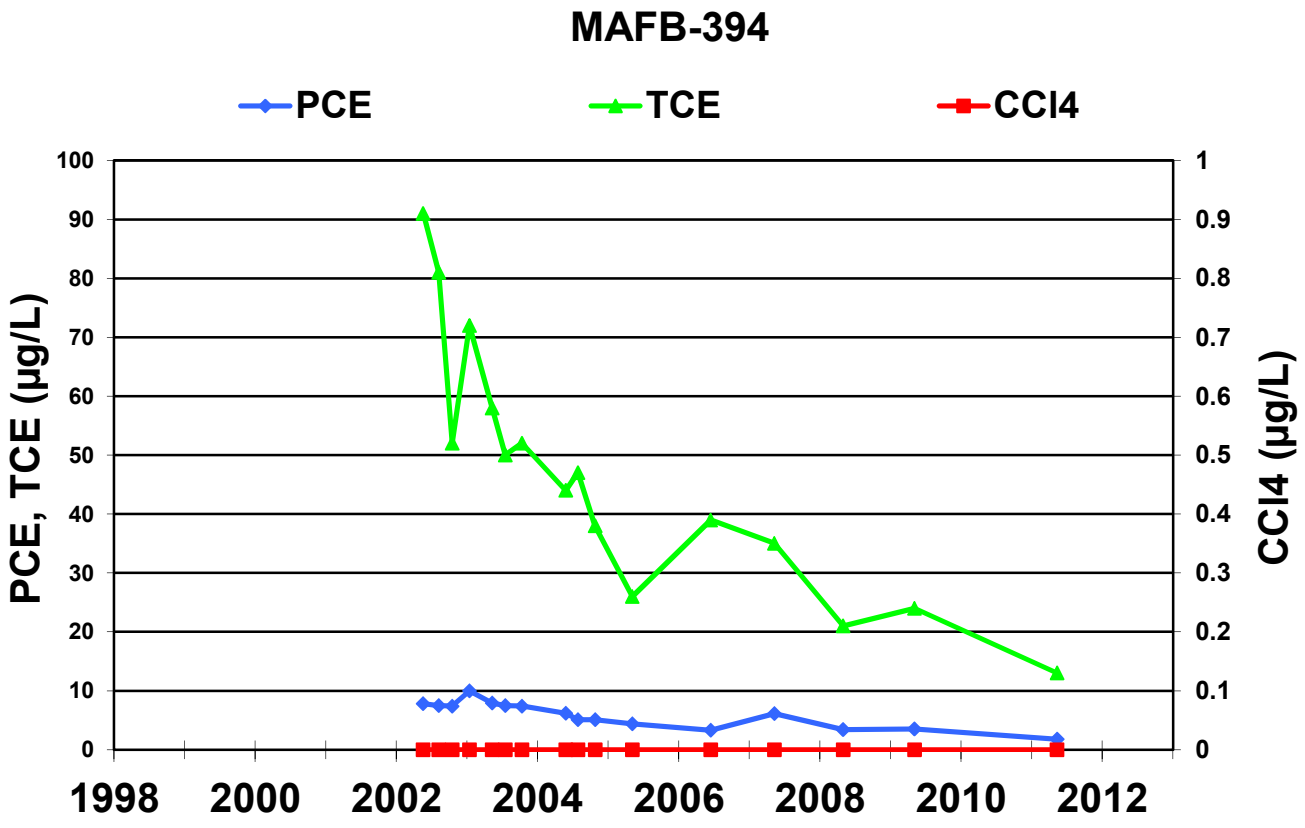

MAFB-390
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

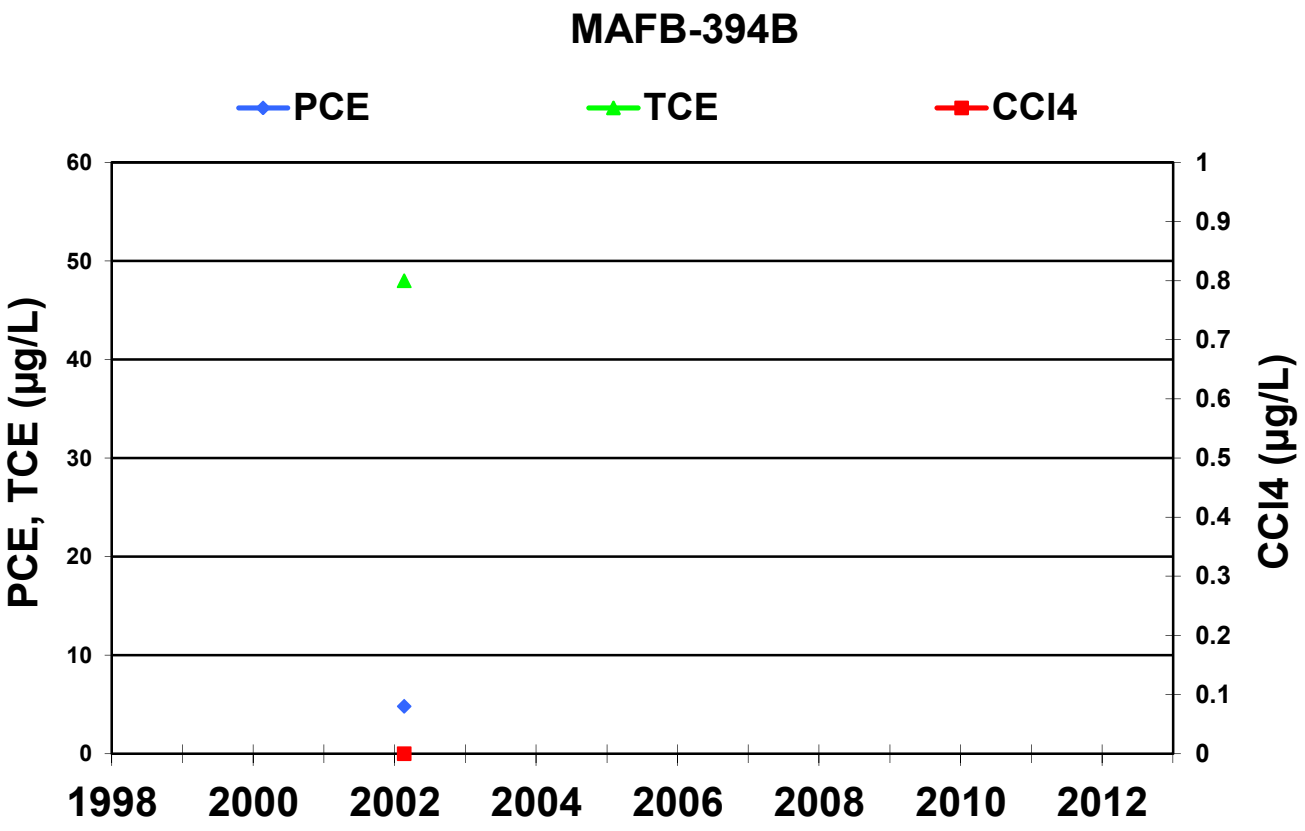

MAFB-391
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

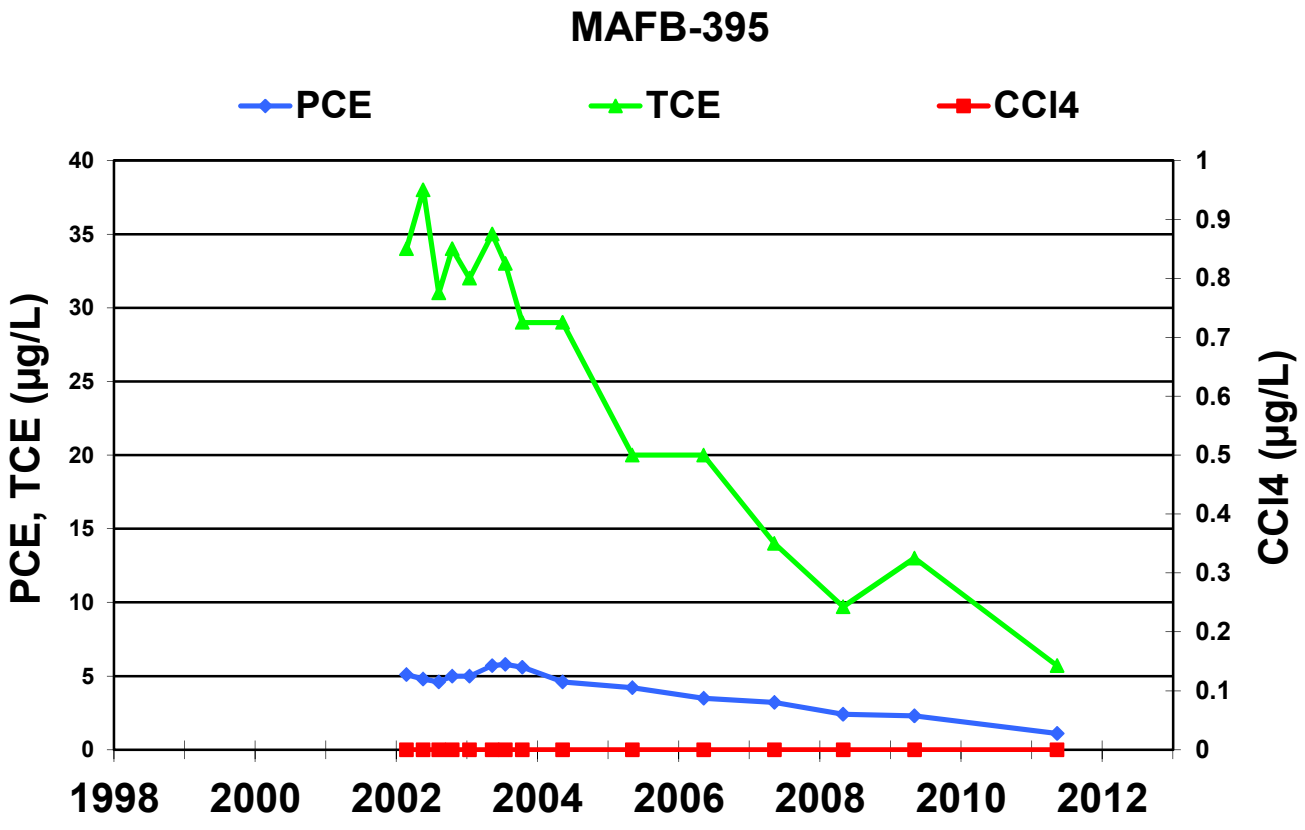

MAFB-392
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
16
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

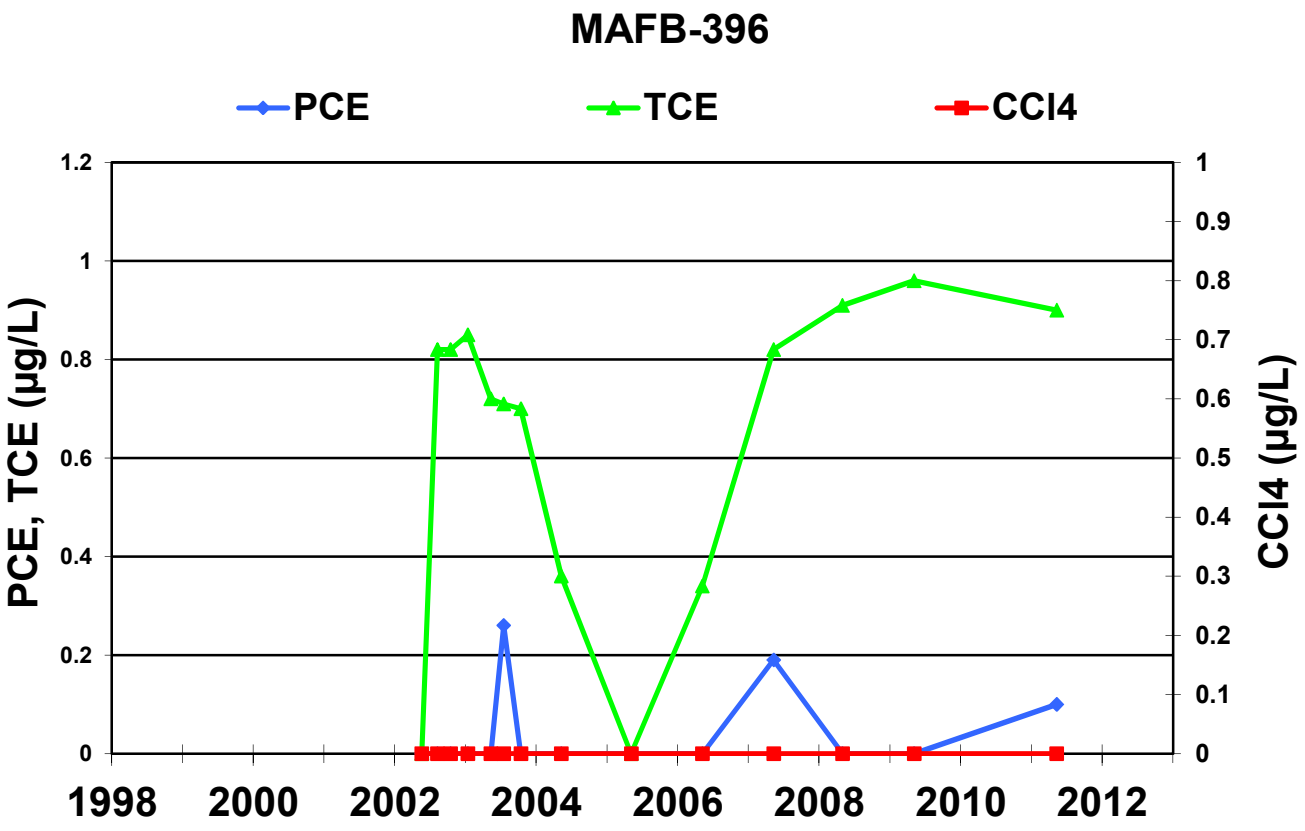

MAFB-392B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

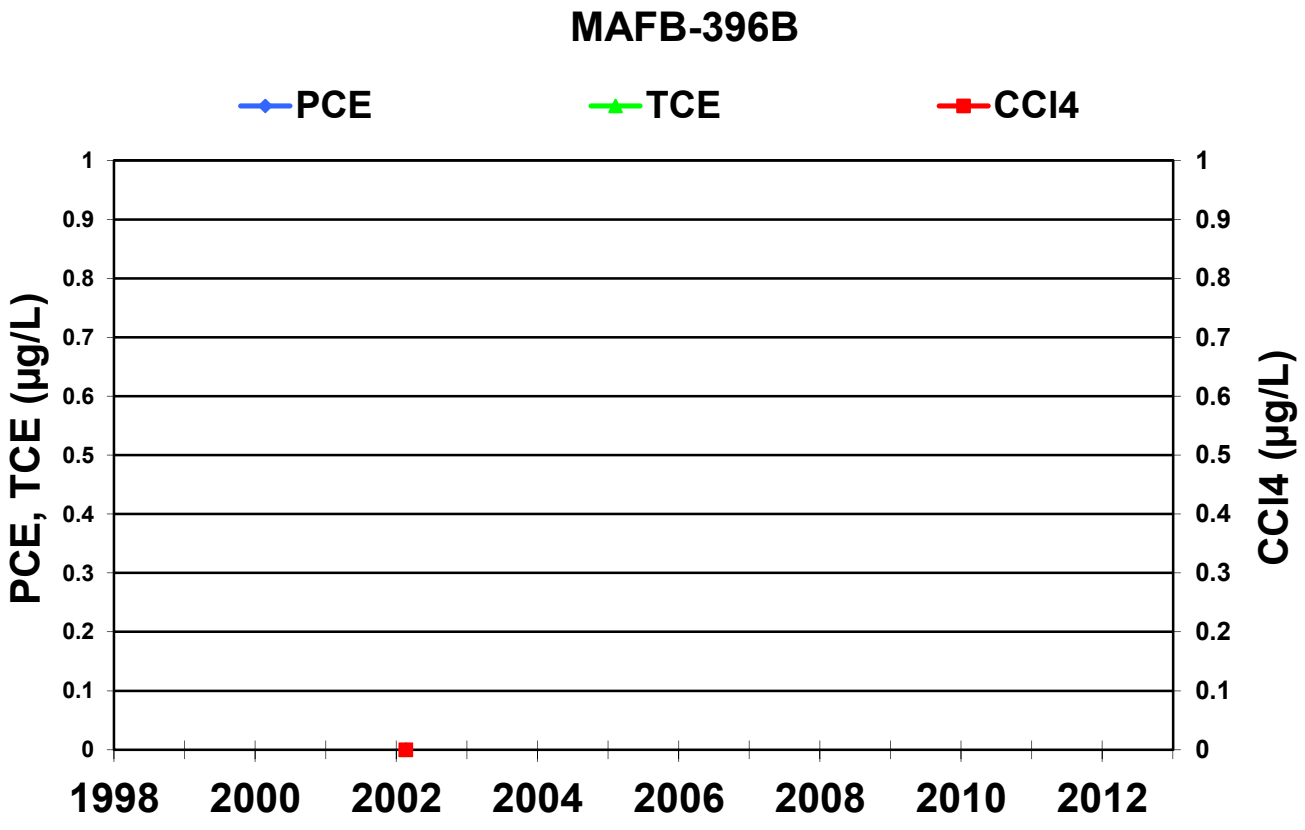

MAFB-393
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
18
16
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

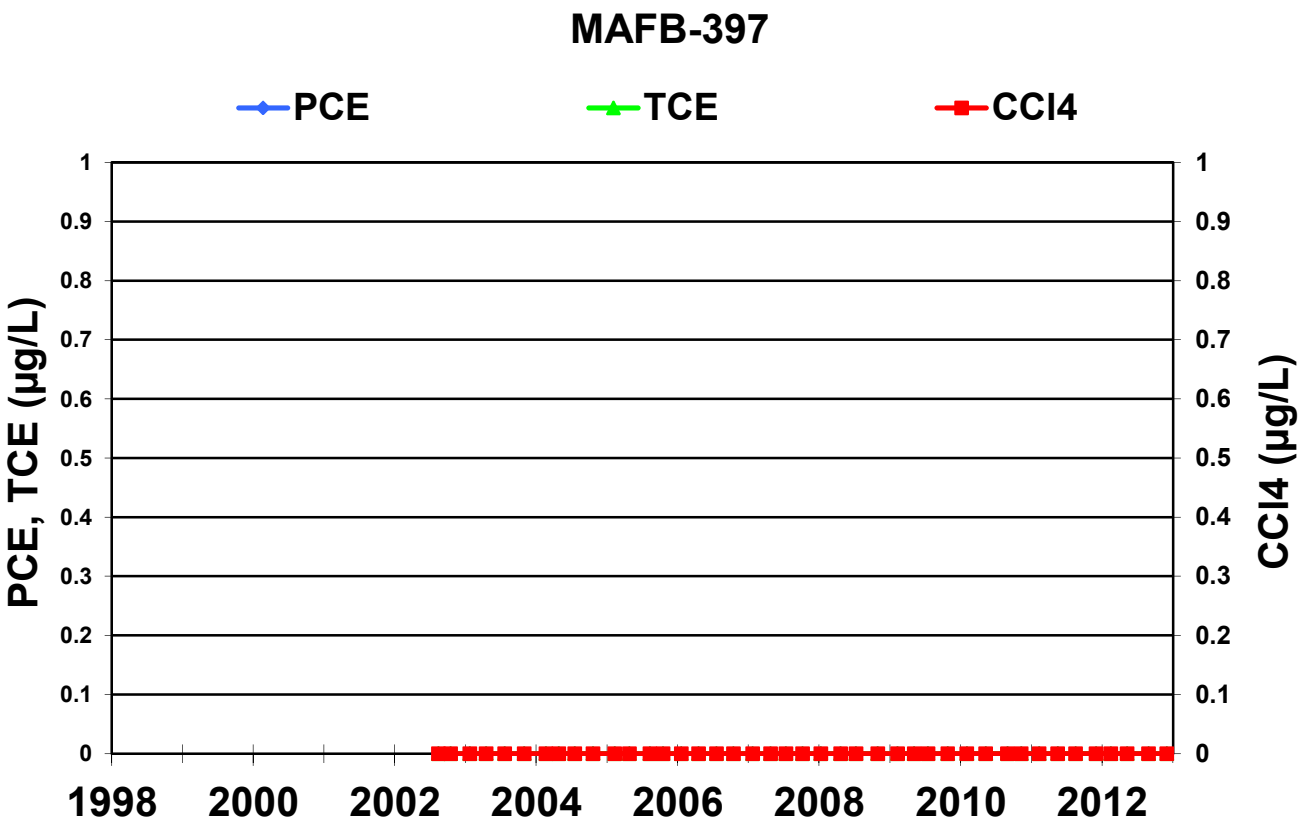

MAFB-394
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
100
90
80
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

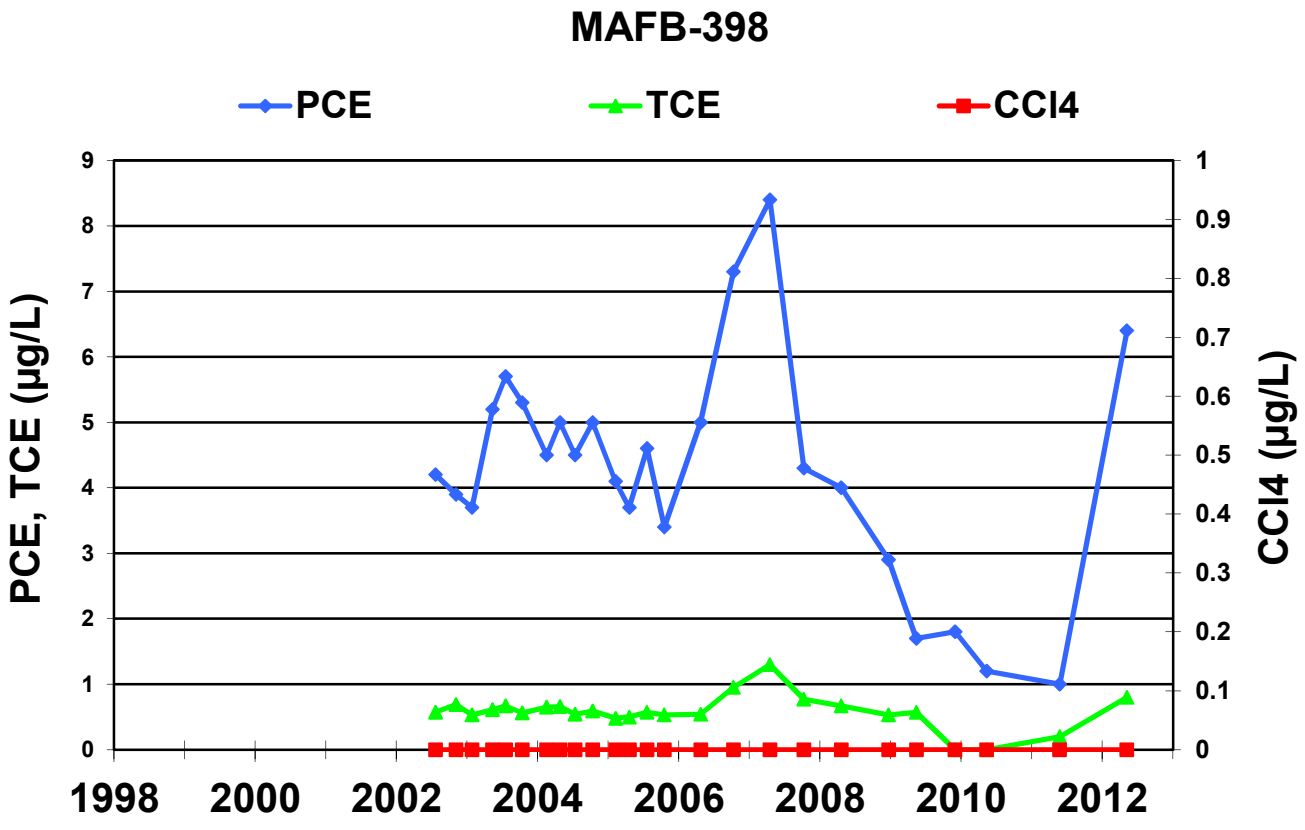

MAFB-394B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

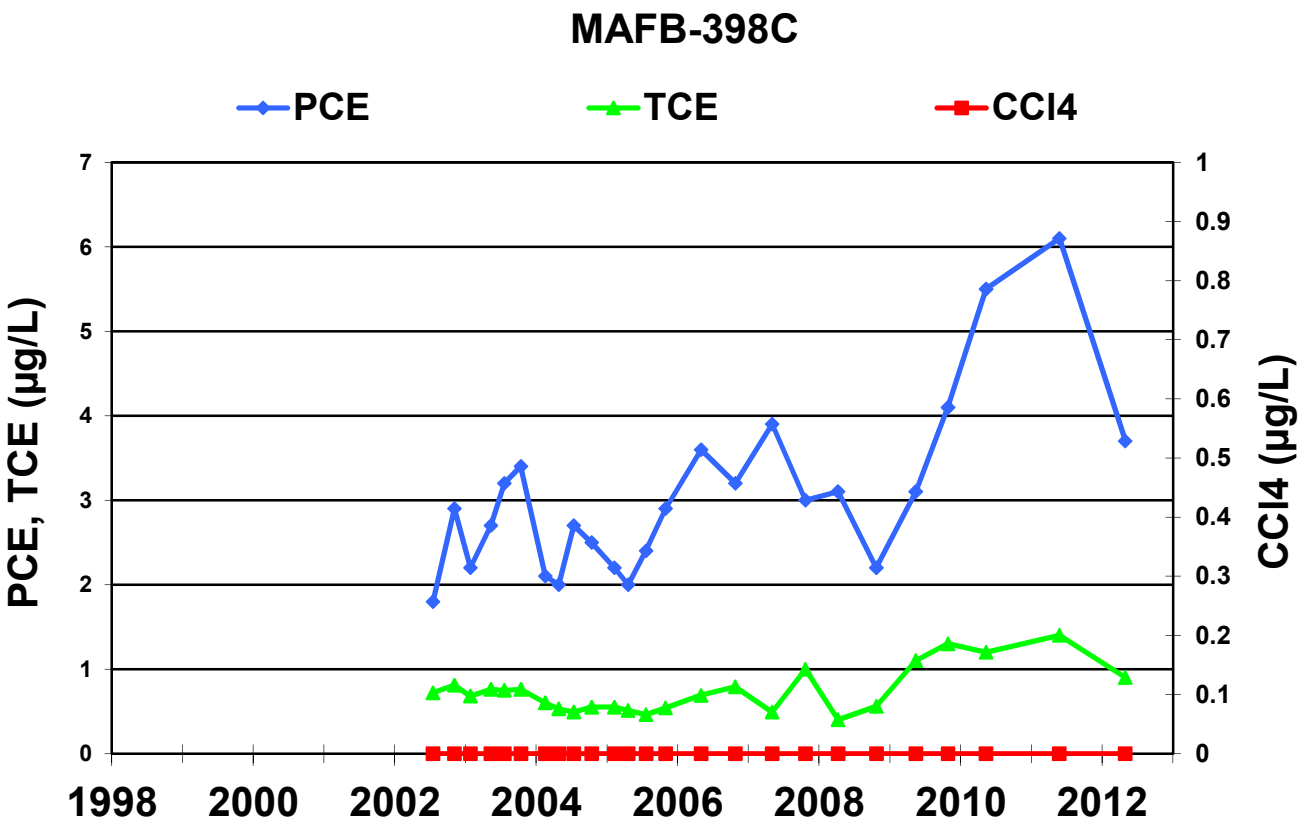

MAFB-395
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
40
35
30
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

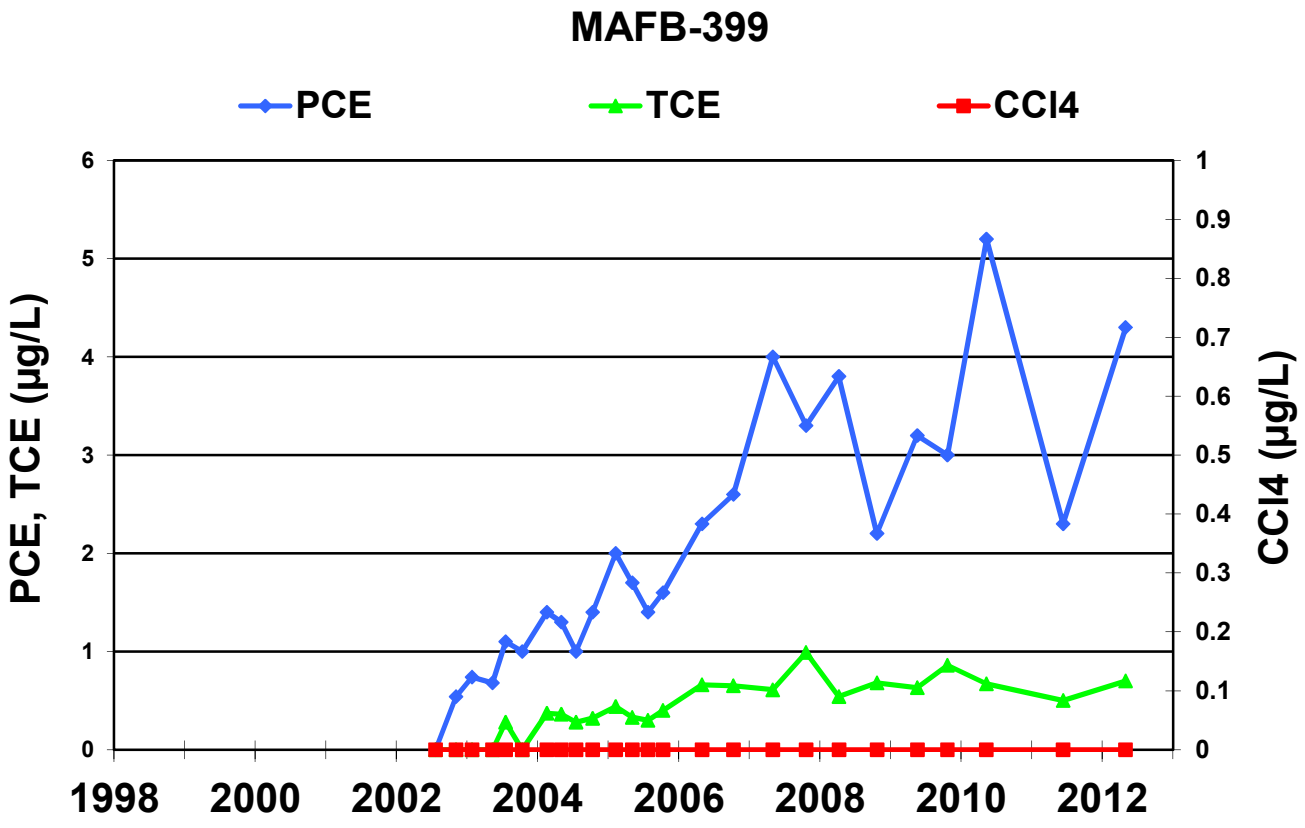

MAFB-396
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

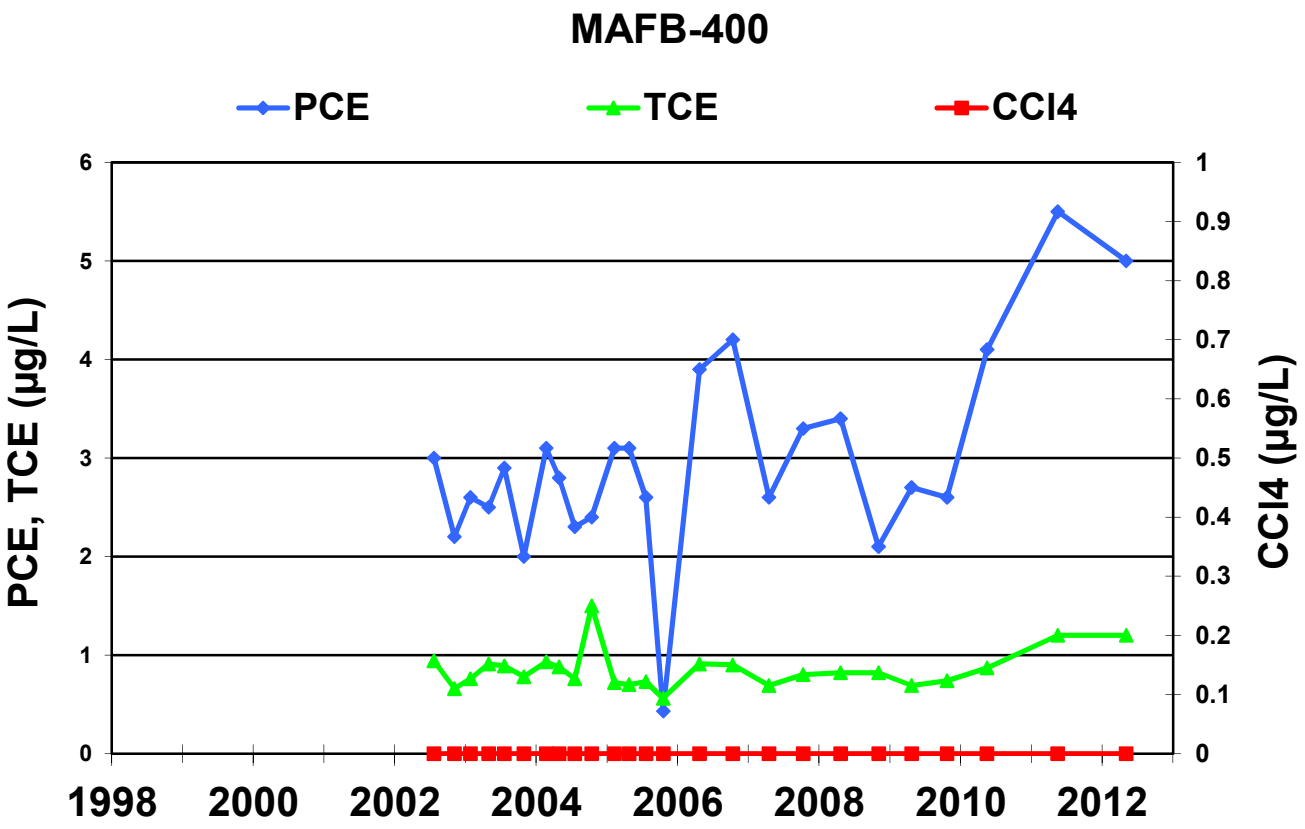

MAFB-396B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

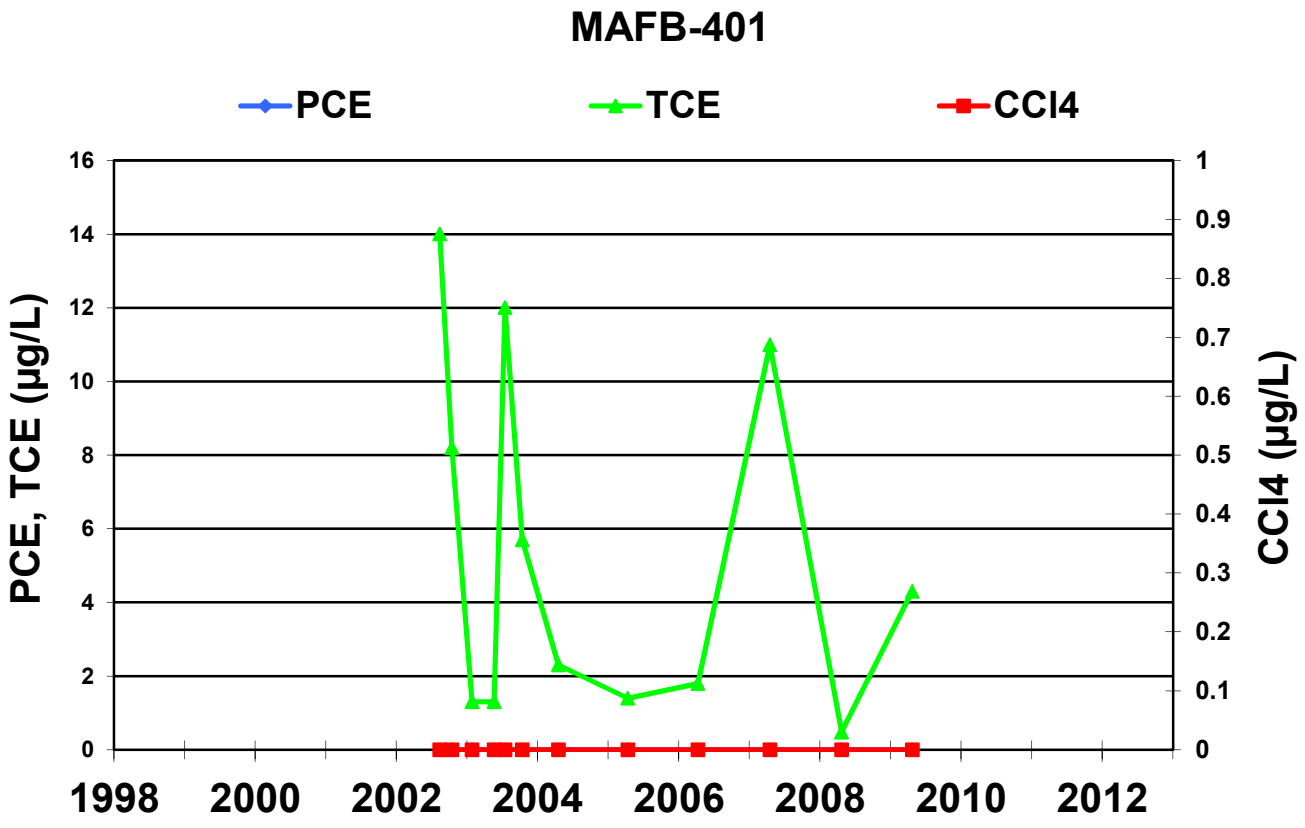

MAFB-397
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

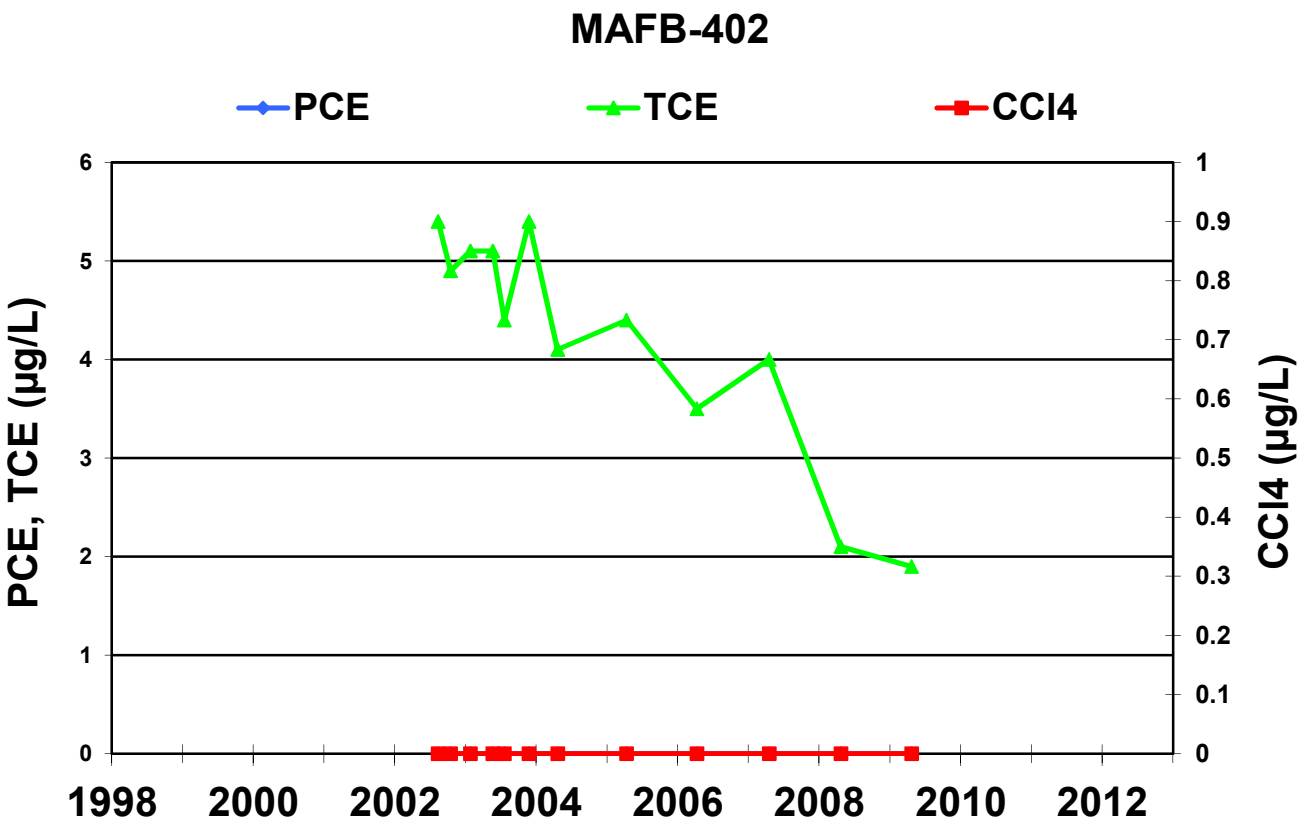

MAFB-398
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
9
8
7
6
5
4
3
2
1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

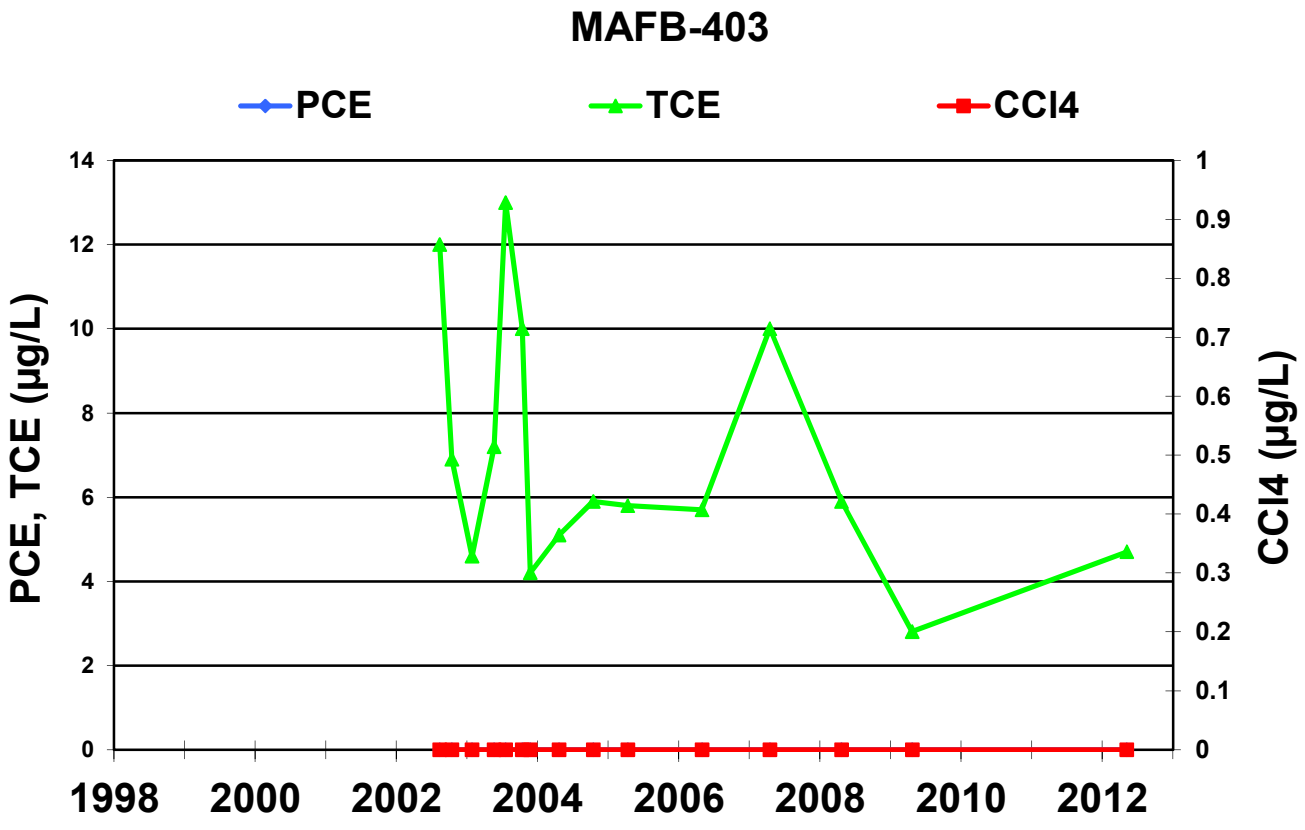

MAFB-398C
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
1
2
3
4
5
6
7
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1998
2000
2002
2004
2006
2008
2010
2012

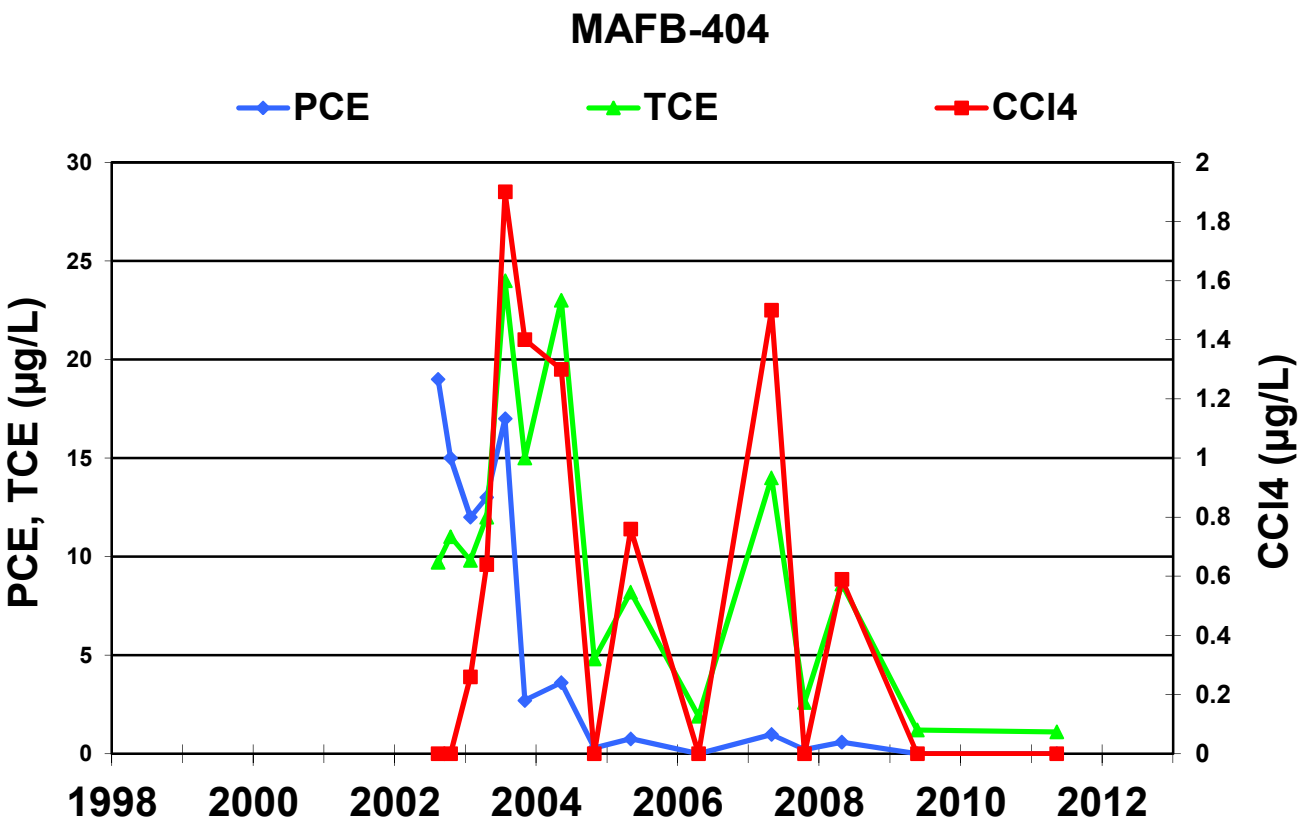

MAFB-399
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
1
2
3
4
5
6
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1998
2000
2002
2004
2006
2008
2010
2012

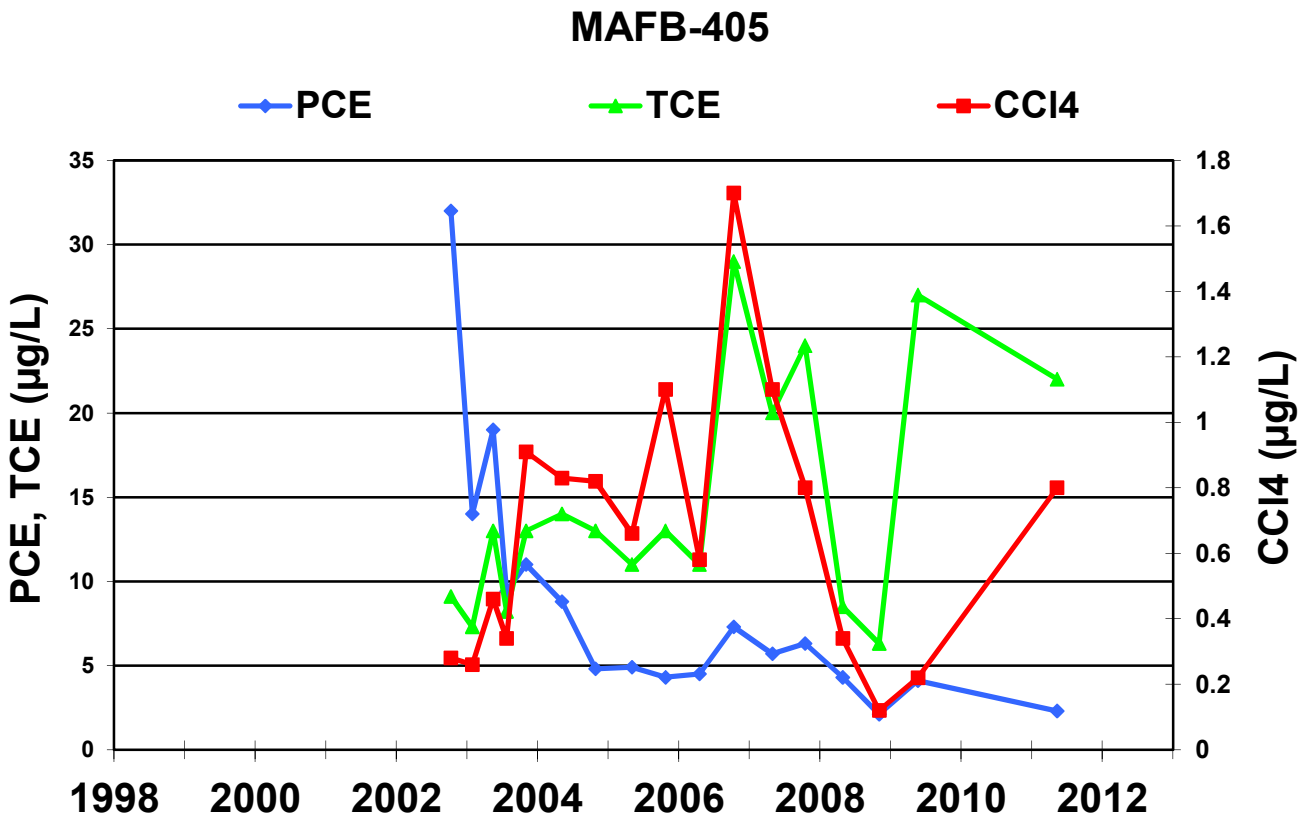

MAFB-400
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
1
2
3
4
5
6
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1998
2000
2002
2004
2006
2008
2010
2012

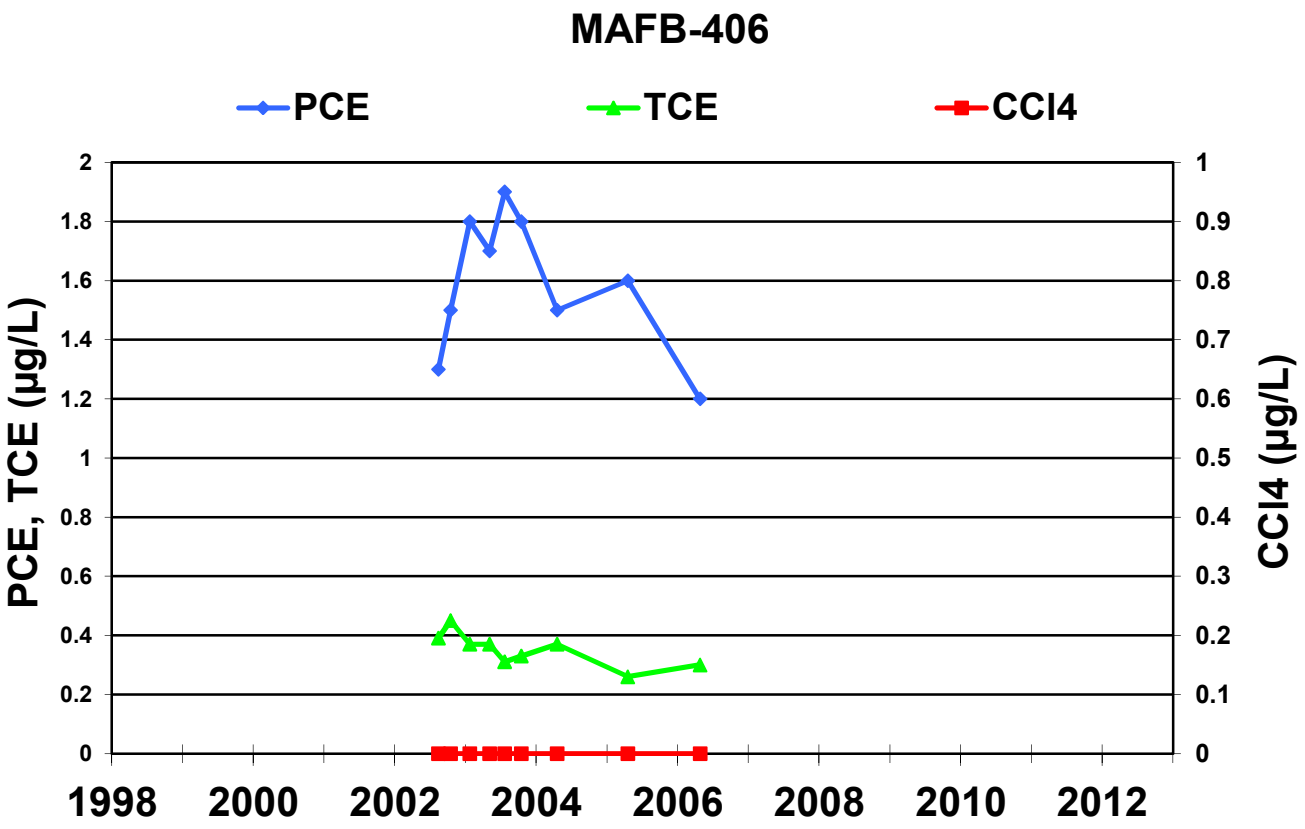

MAFB-401
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
2
4
6
8
10
12
14
16
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1998
2000
2002
2004
2006
2008
2010
2012

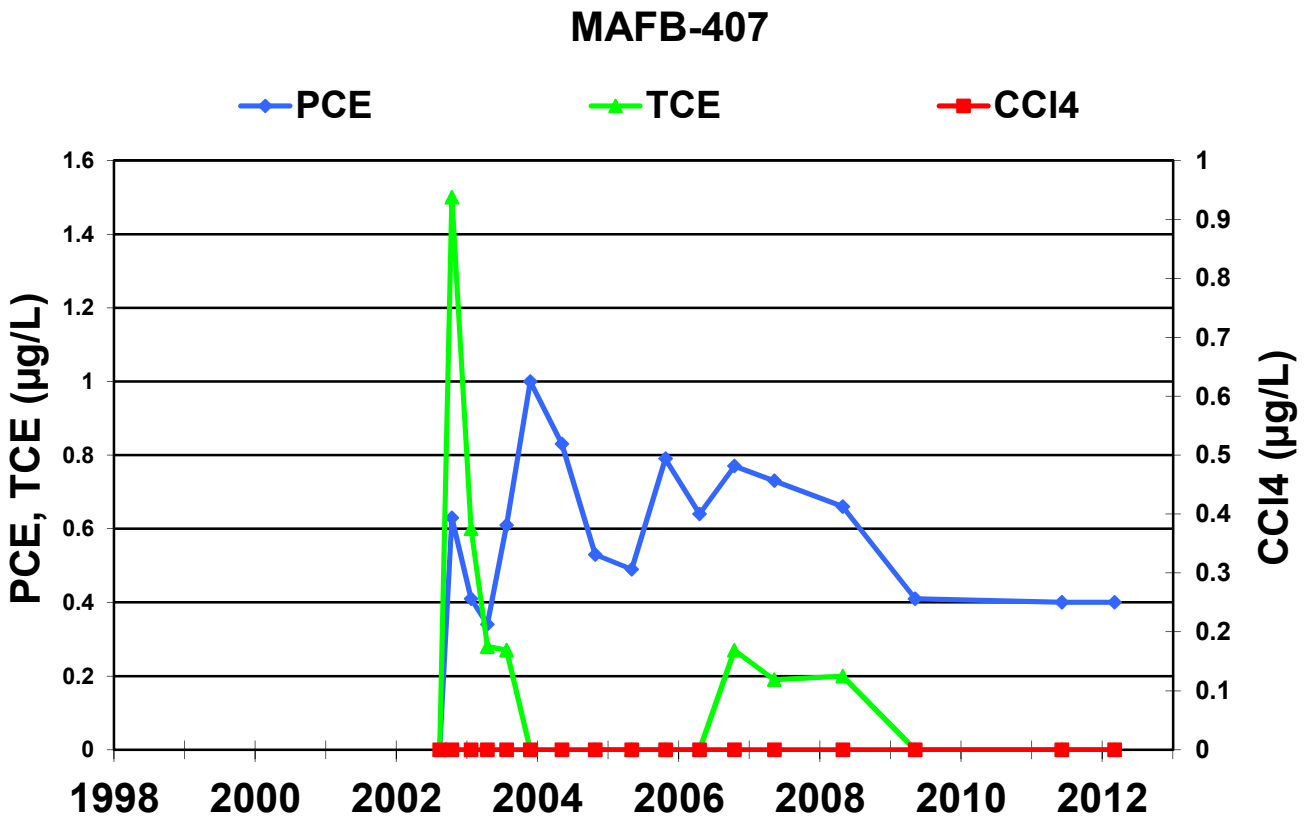

MAFB-402
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
1
2
3
4
5
6
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1998
2000
2002
2004
2006
2008
2010
2012

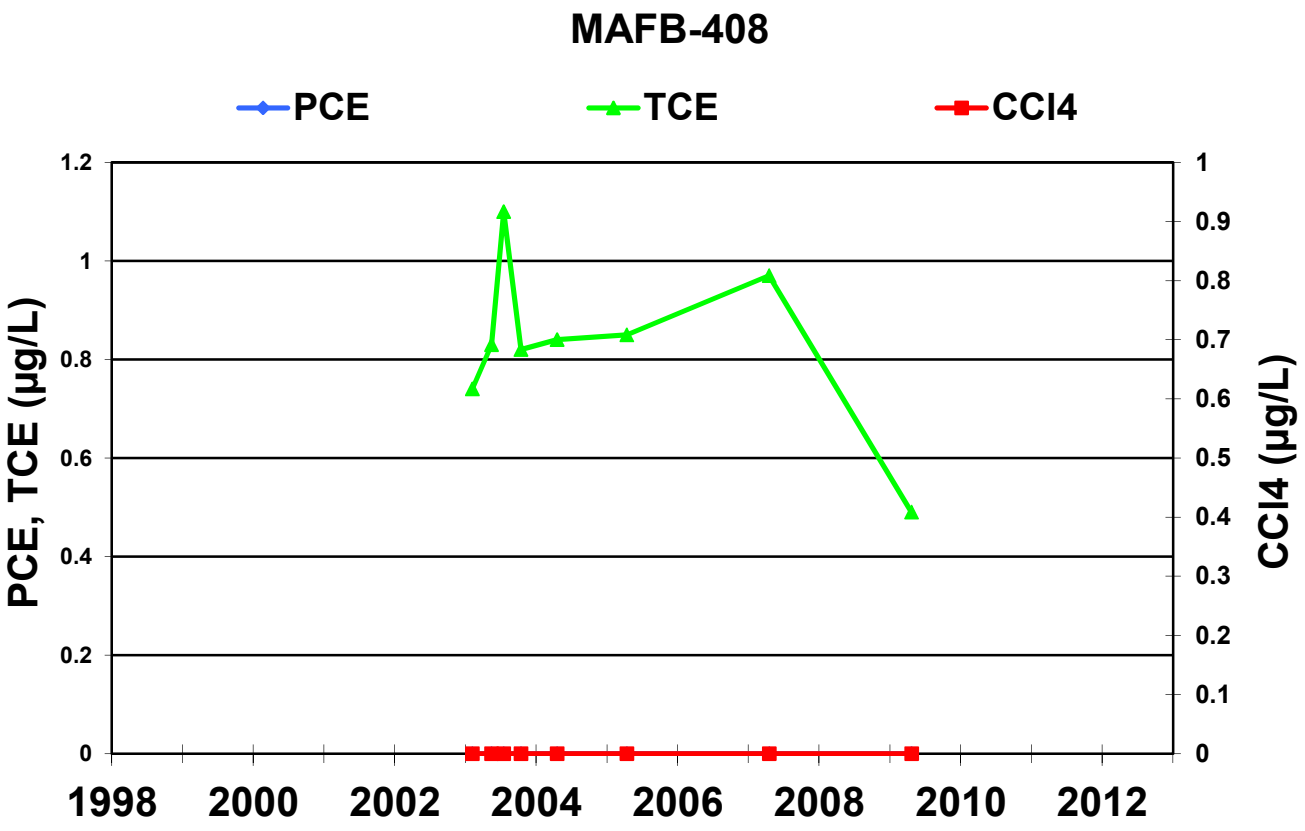

MAFB-403
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
2
4
6
8
10
12
14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1998
2000
2002
2004
2006
2008
2010
2012

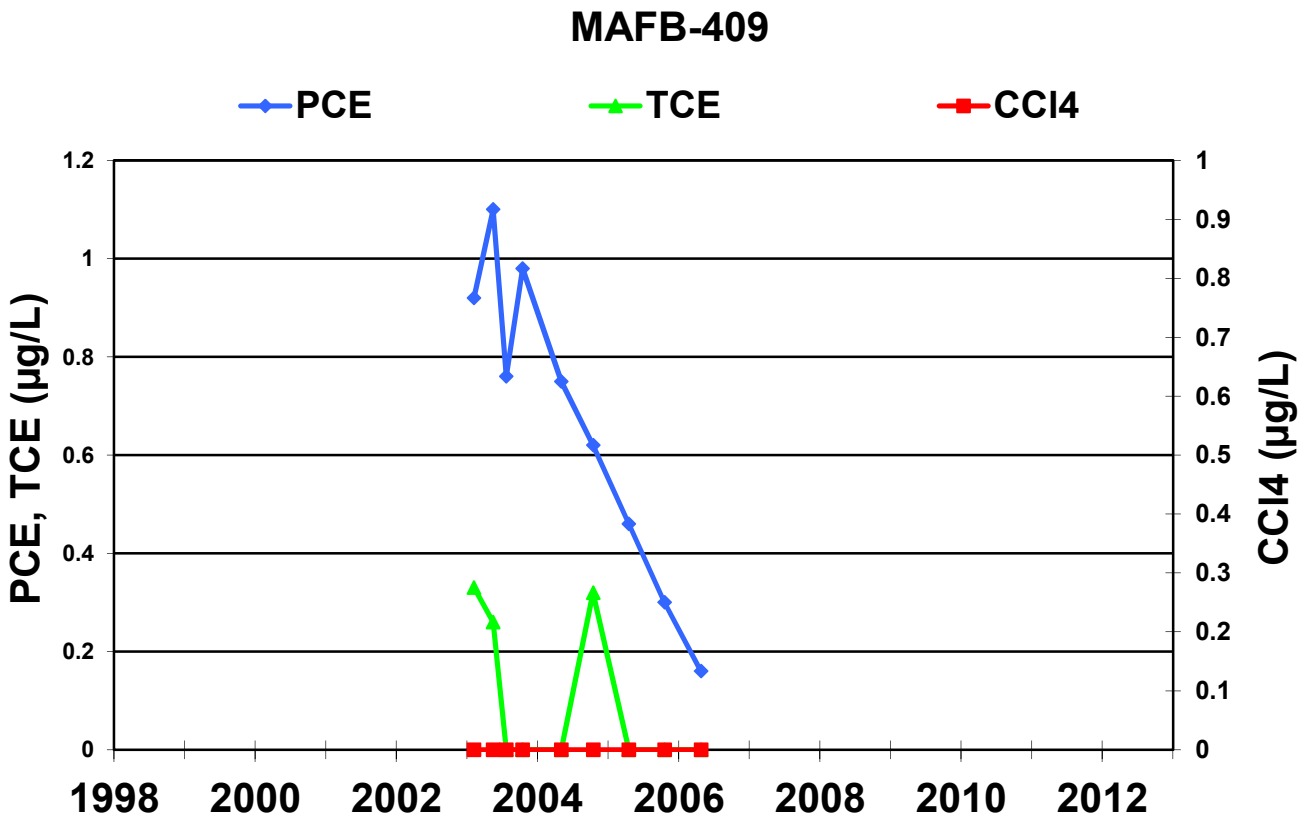

MAFB-404
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
30
25
20
15
10
5
0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

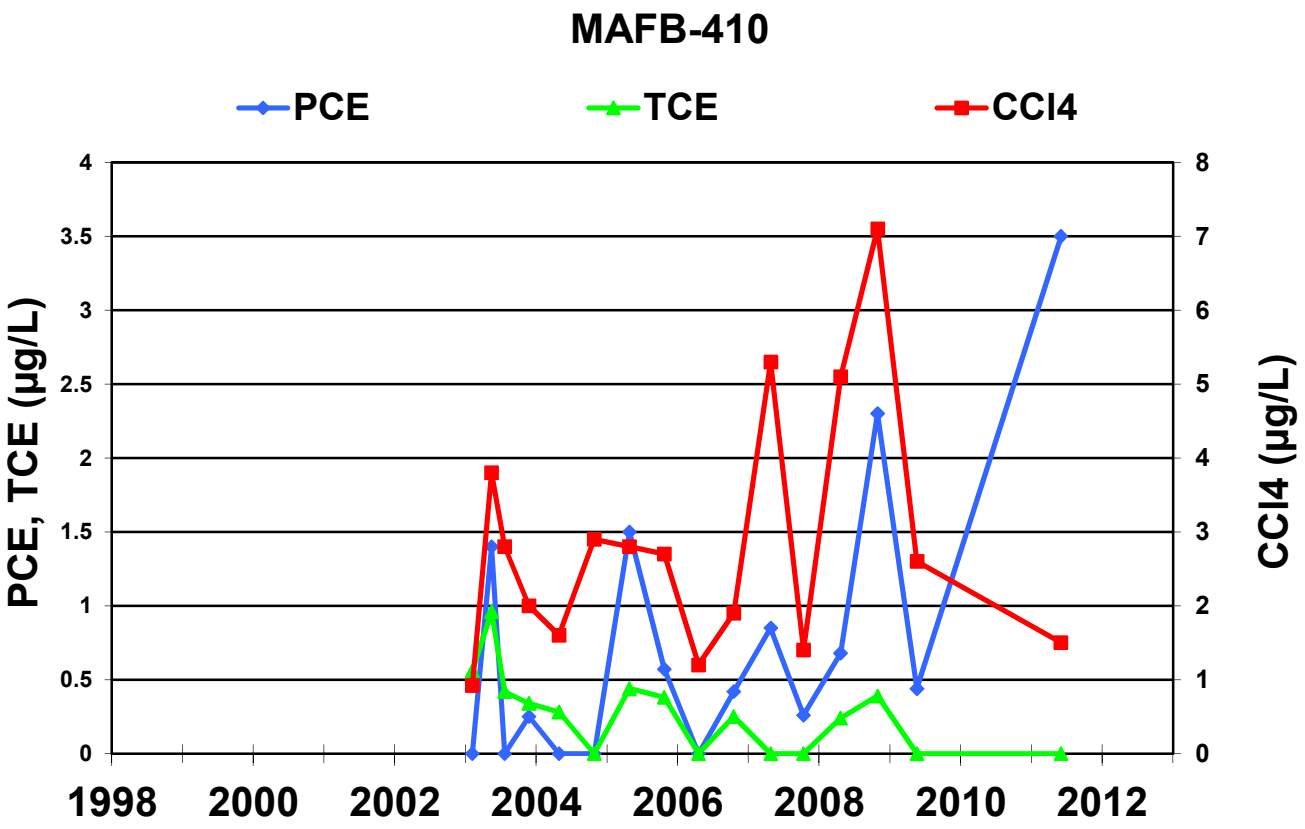

MAFB-405
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
35
30
25
20
15
10
5
0
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

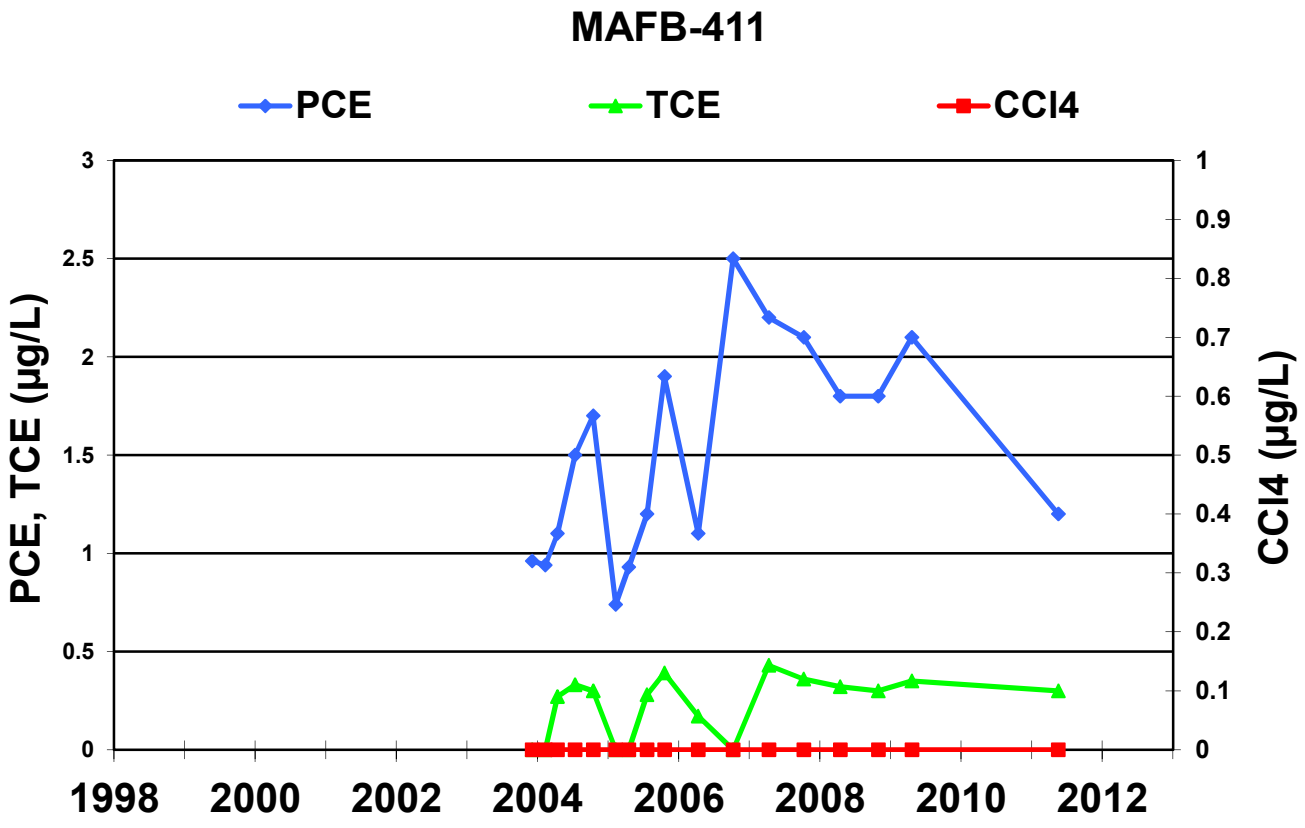

MAFB-406
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

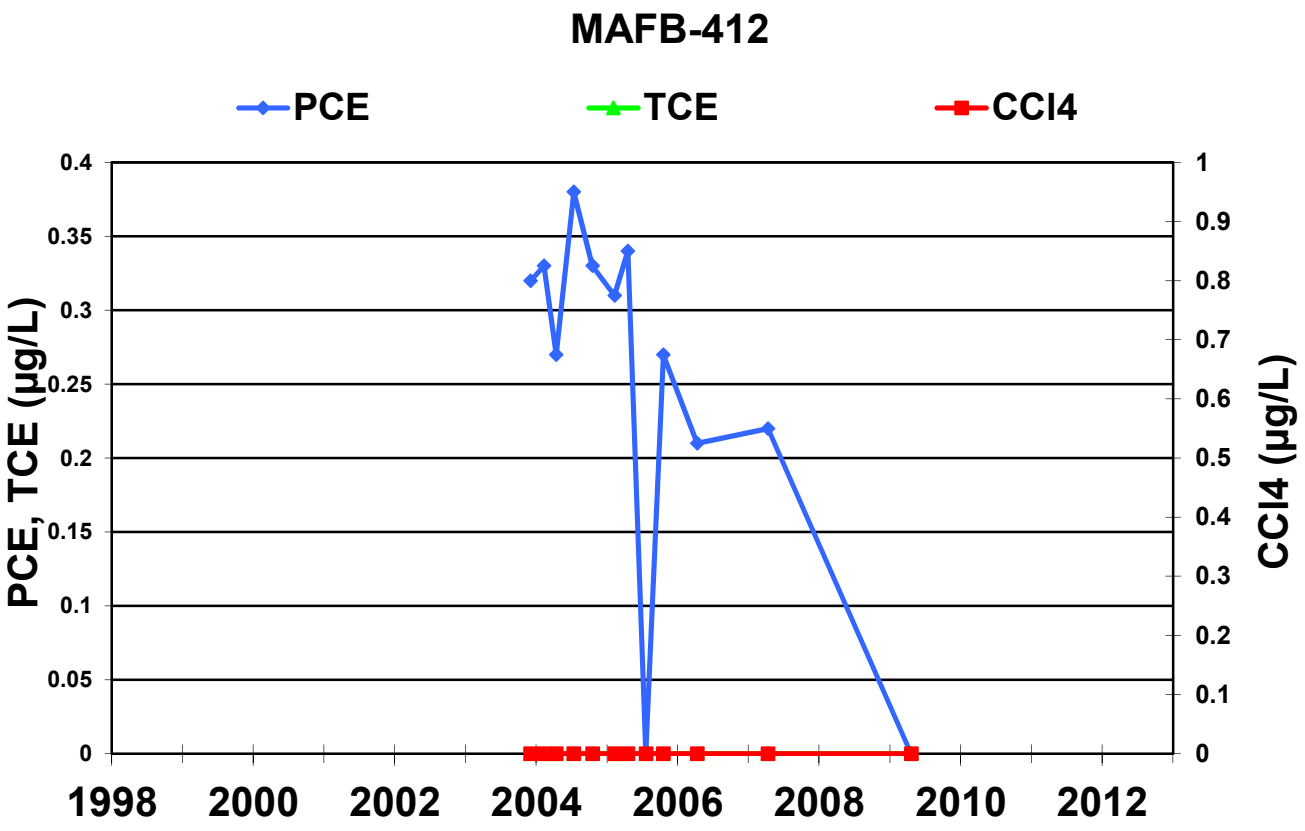

MAFB-407
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

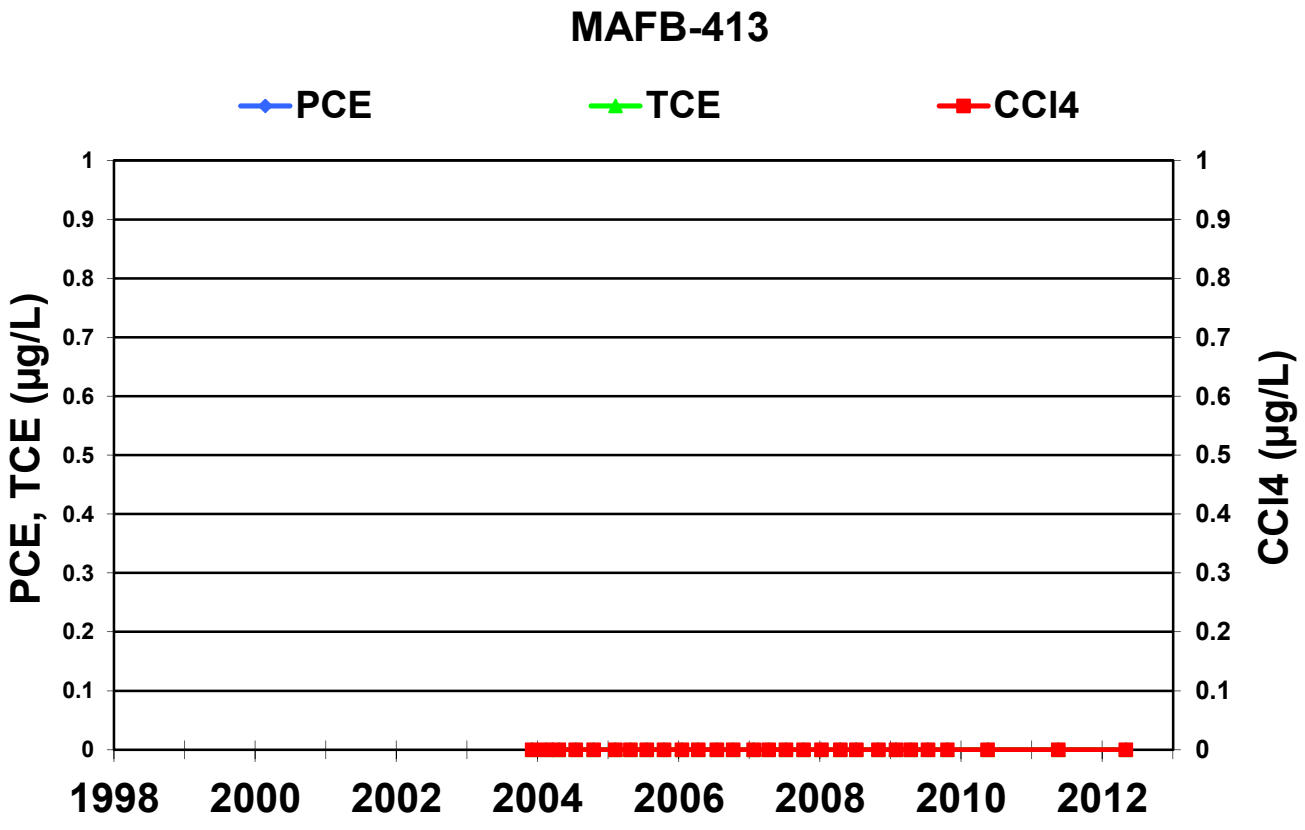

MAFB-408
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

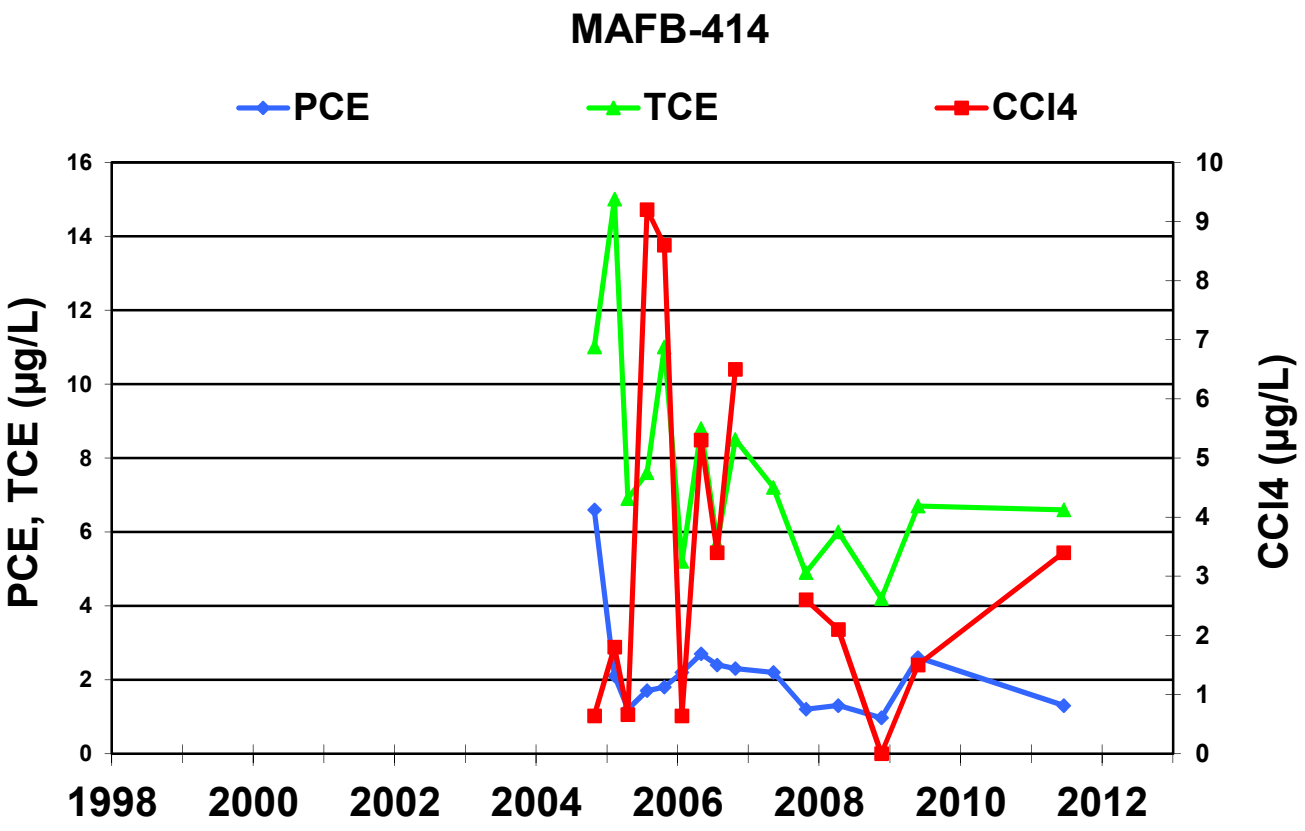

MAFB-409
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

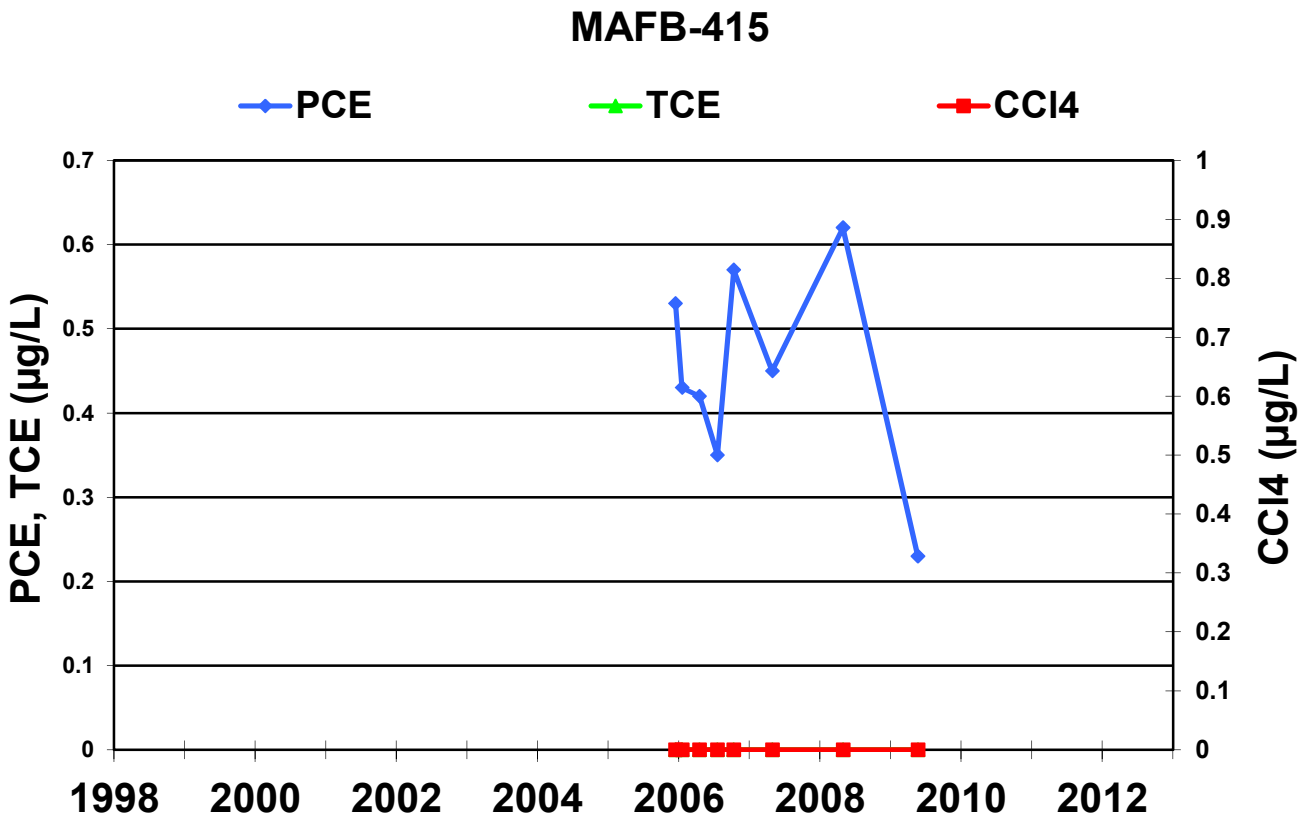

MAFB-410
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
4
3.5
3
2.5
2
1.5
1
0.5
0
8
7
6
5
4
3
2
1
0
1998
2000
2002
2004
2006
2008
2010
2012

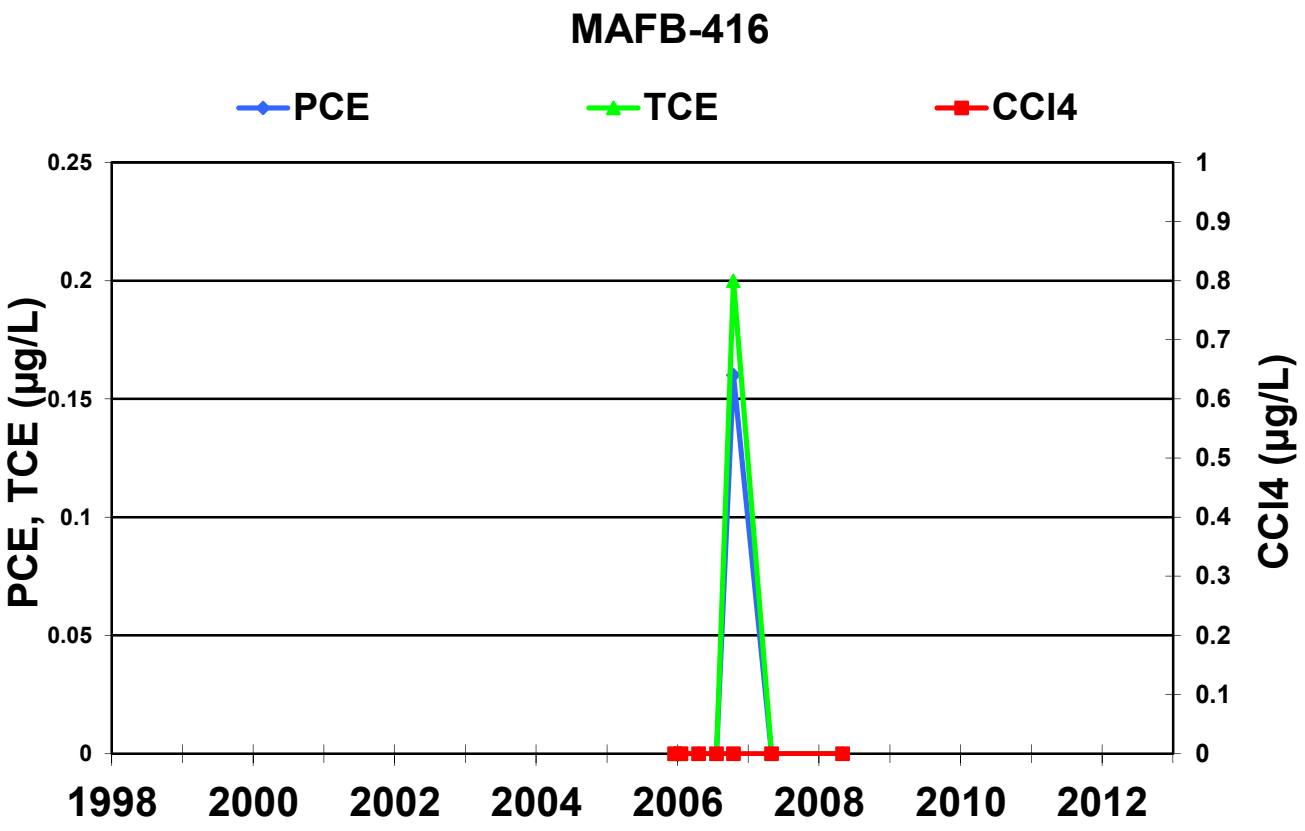

MAFB-411
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

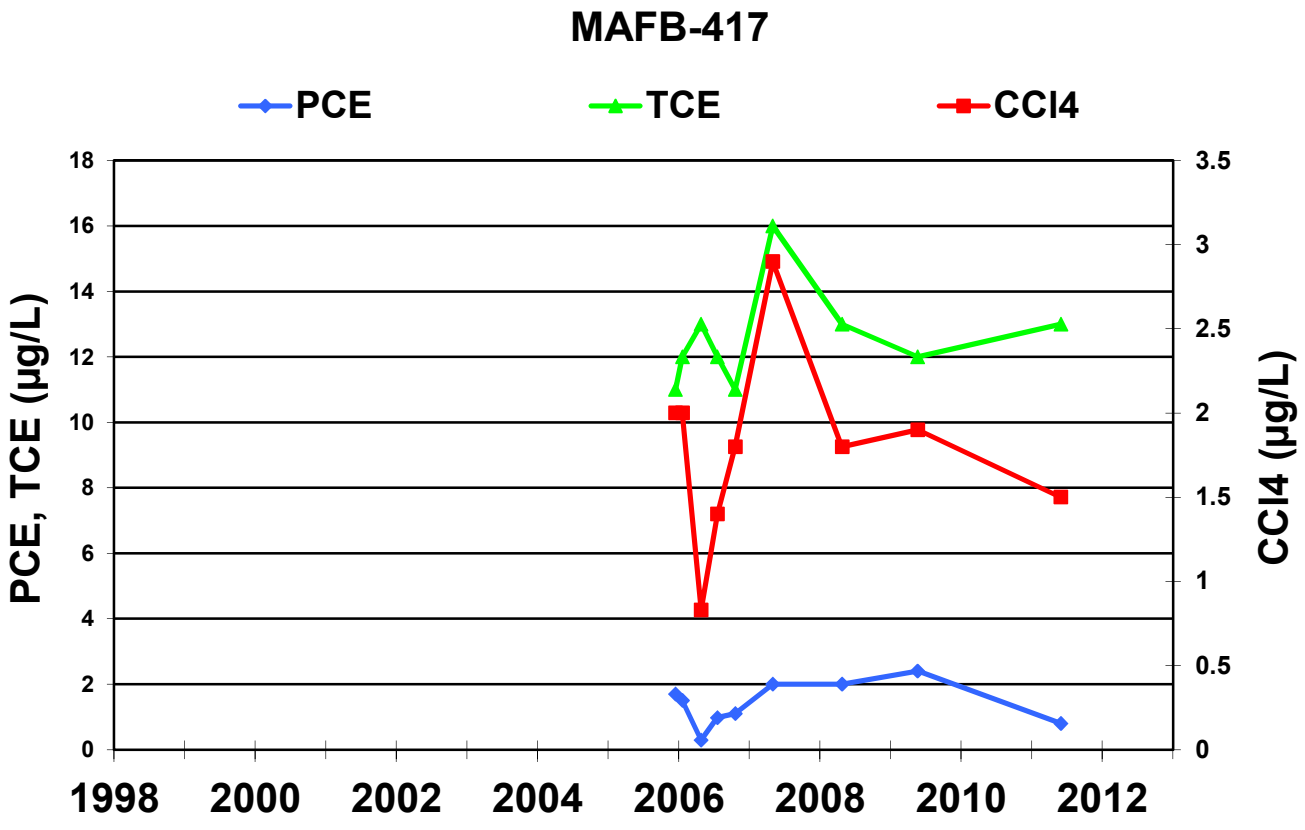

MAFB-412
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

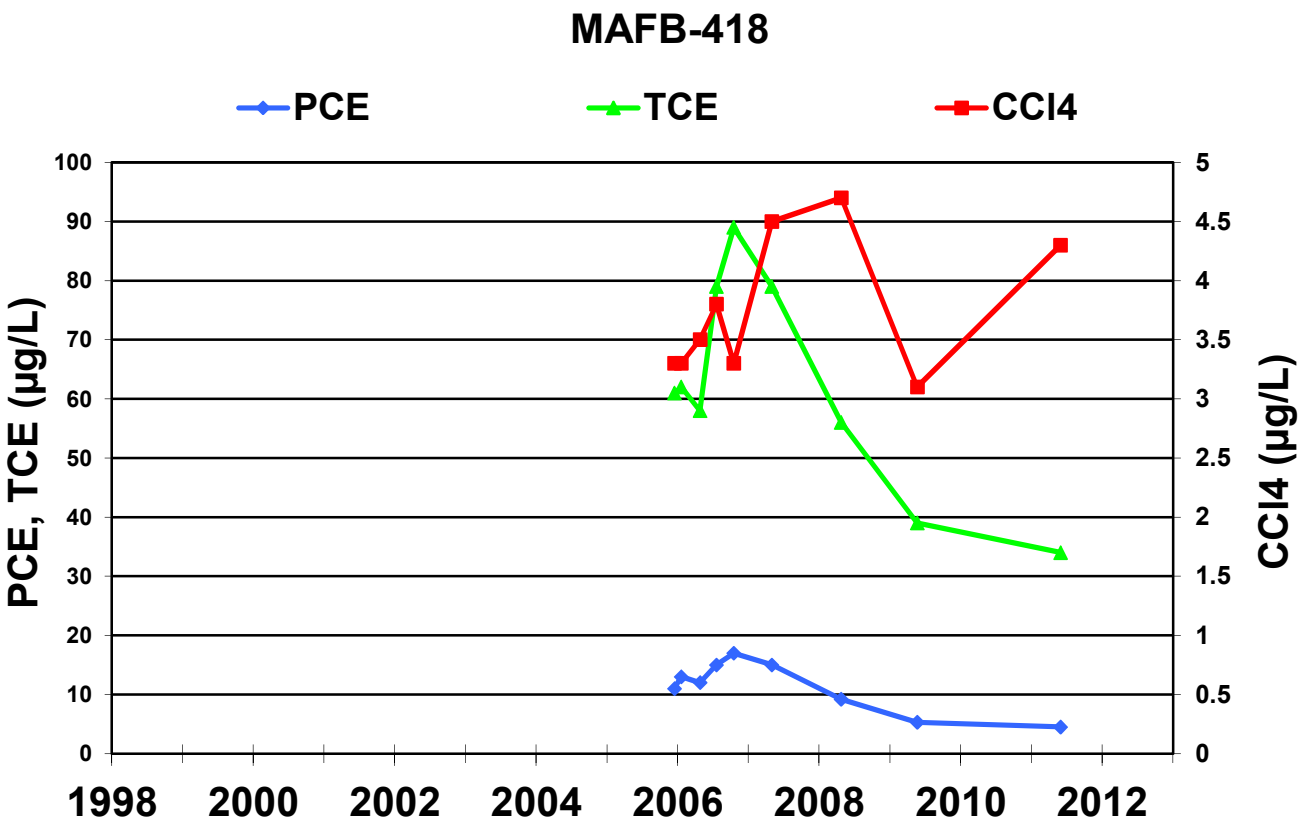

MAFB-413
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

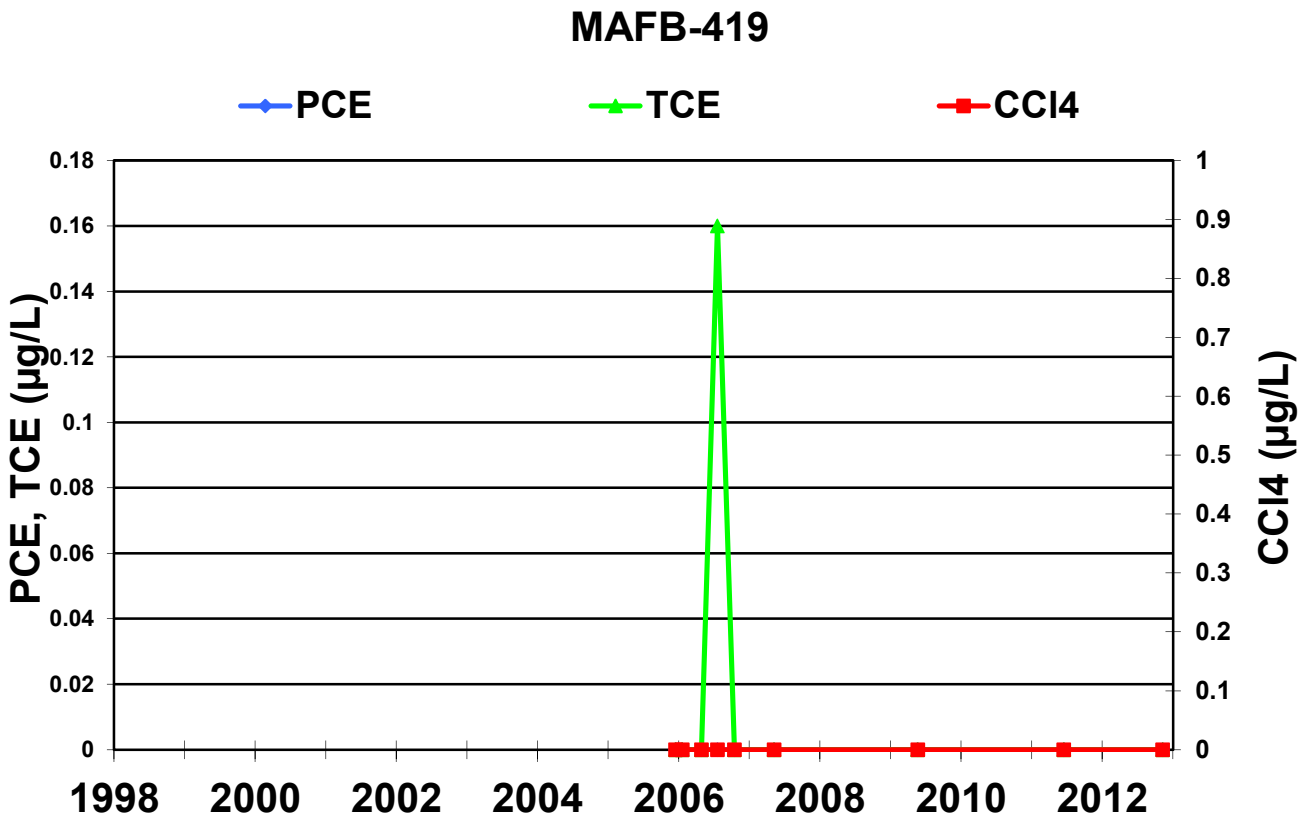

MAFB-414
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
16
14
12
10
8
6
4
2
0
10
9
8
7
6
5
4
3
2
1
0
1998
2000
2002
2004
2006
2008
2010
2012

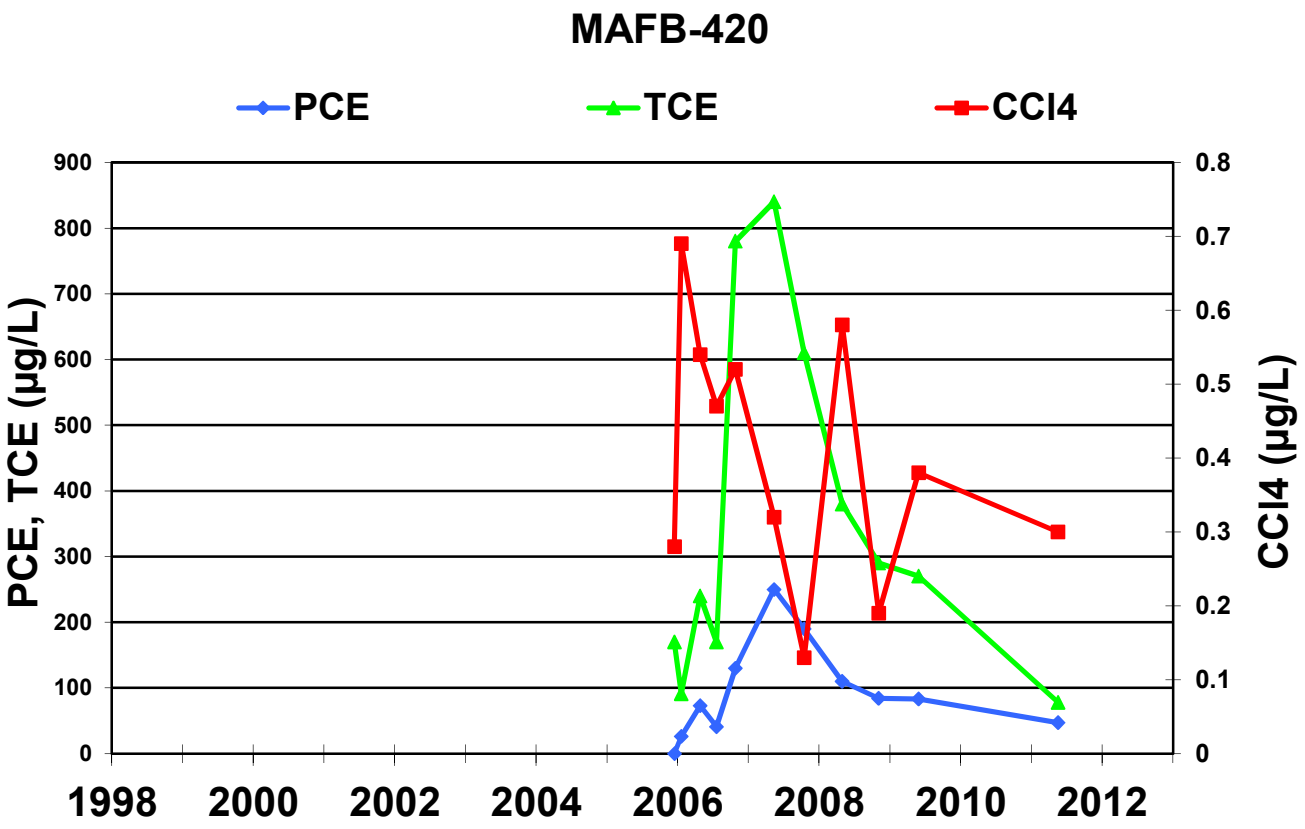

MAFB-415
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

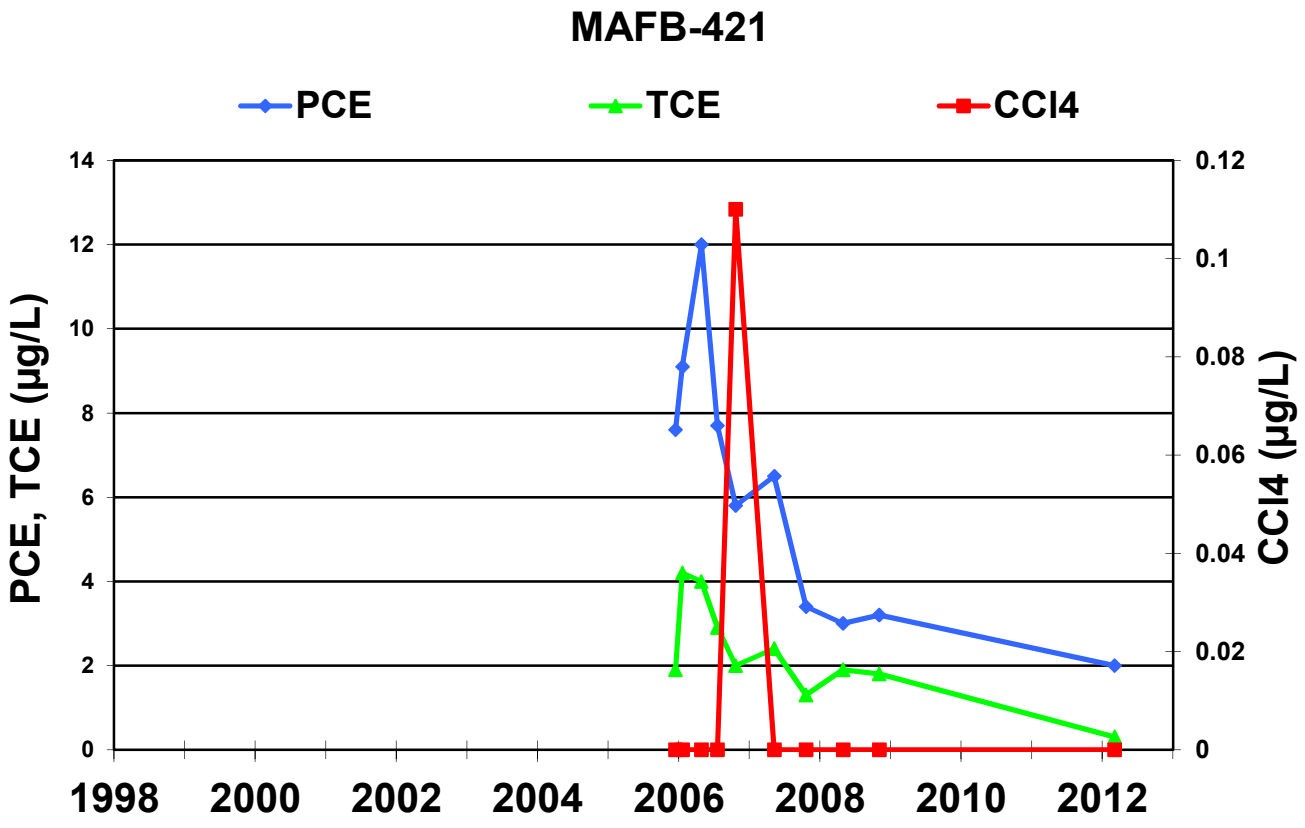

MAFB-416
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

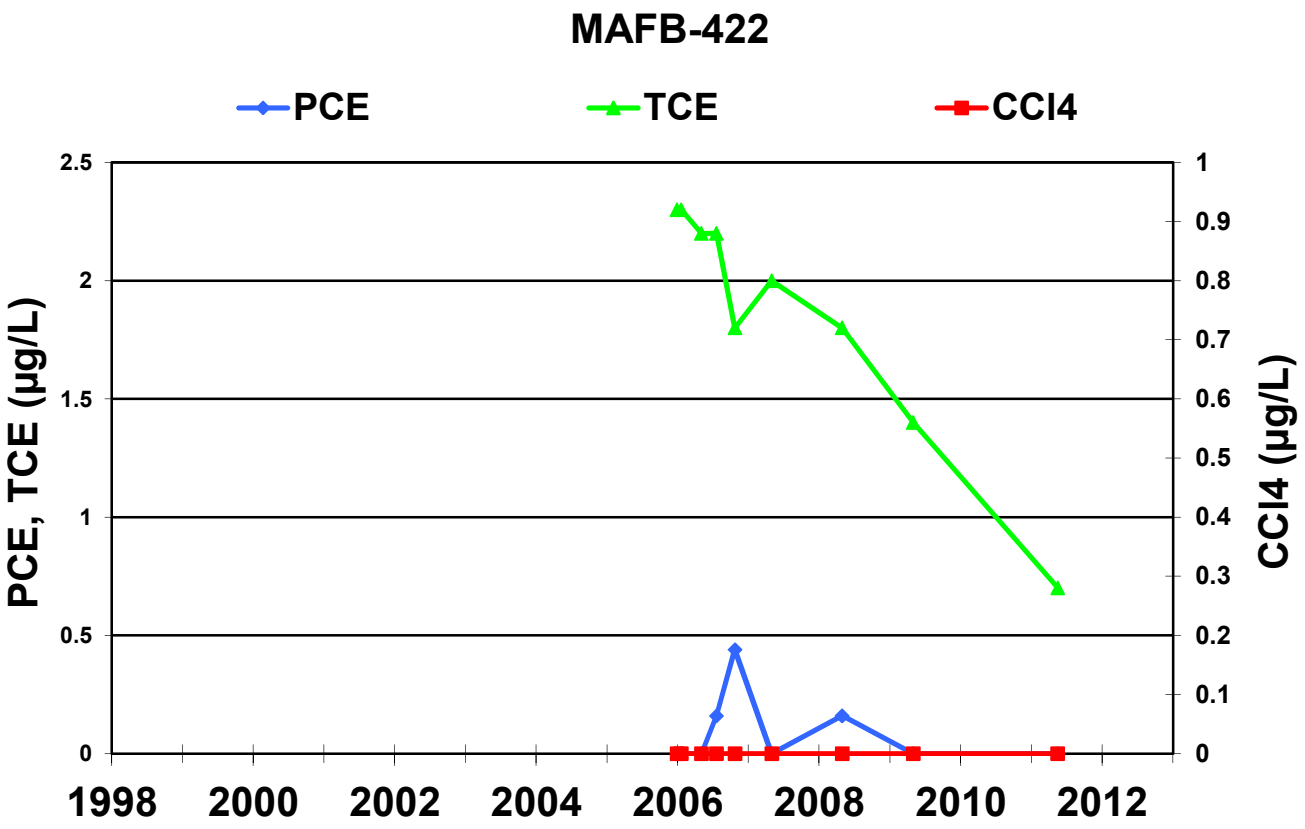

MAFB-417
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
18
16
14
12
10
8
6
4
2
0
3.5
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

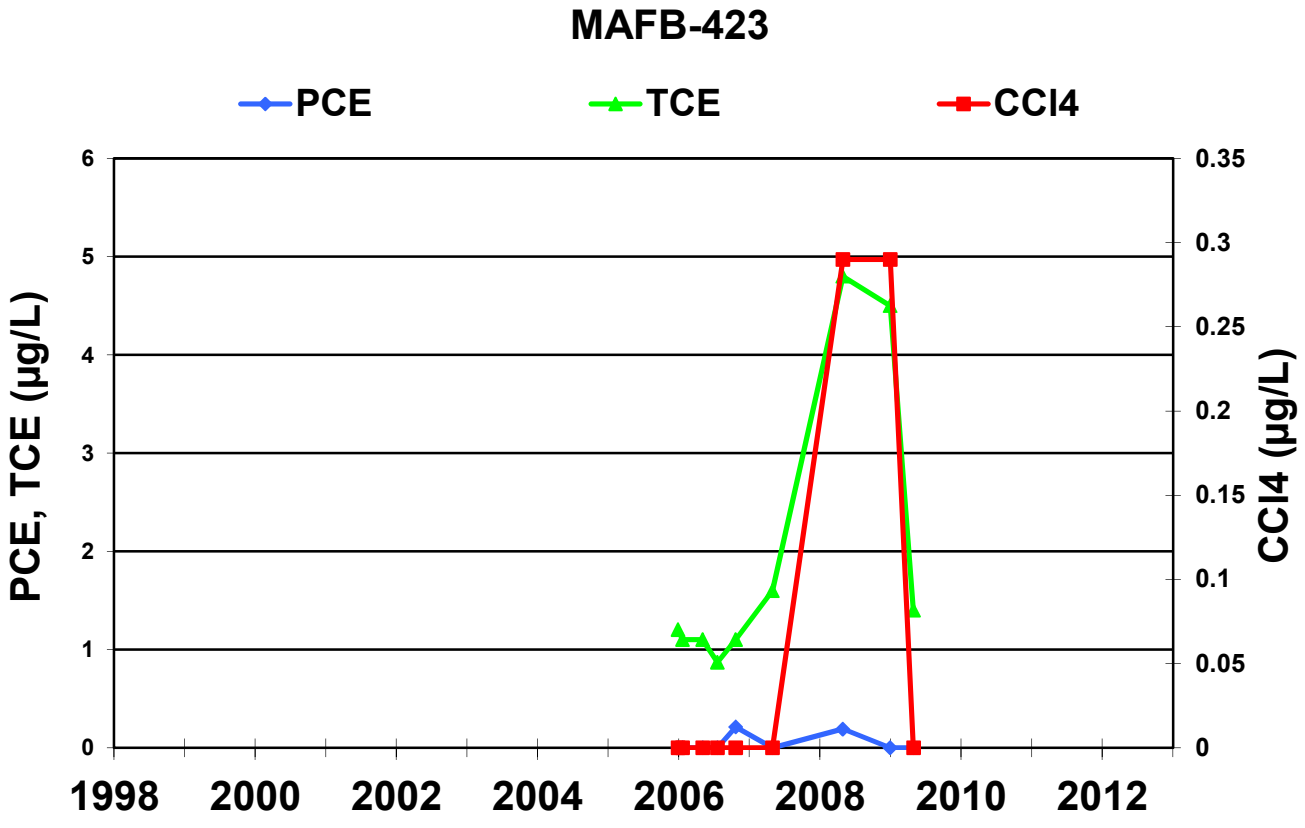

MAFB-418
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
100
90
80
70
60
50
40
30
20
10
0
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

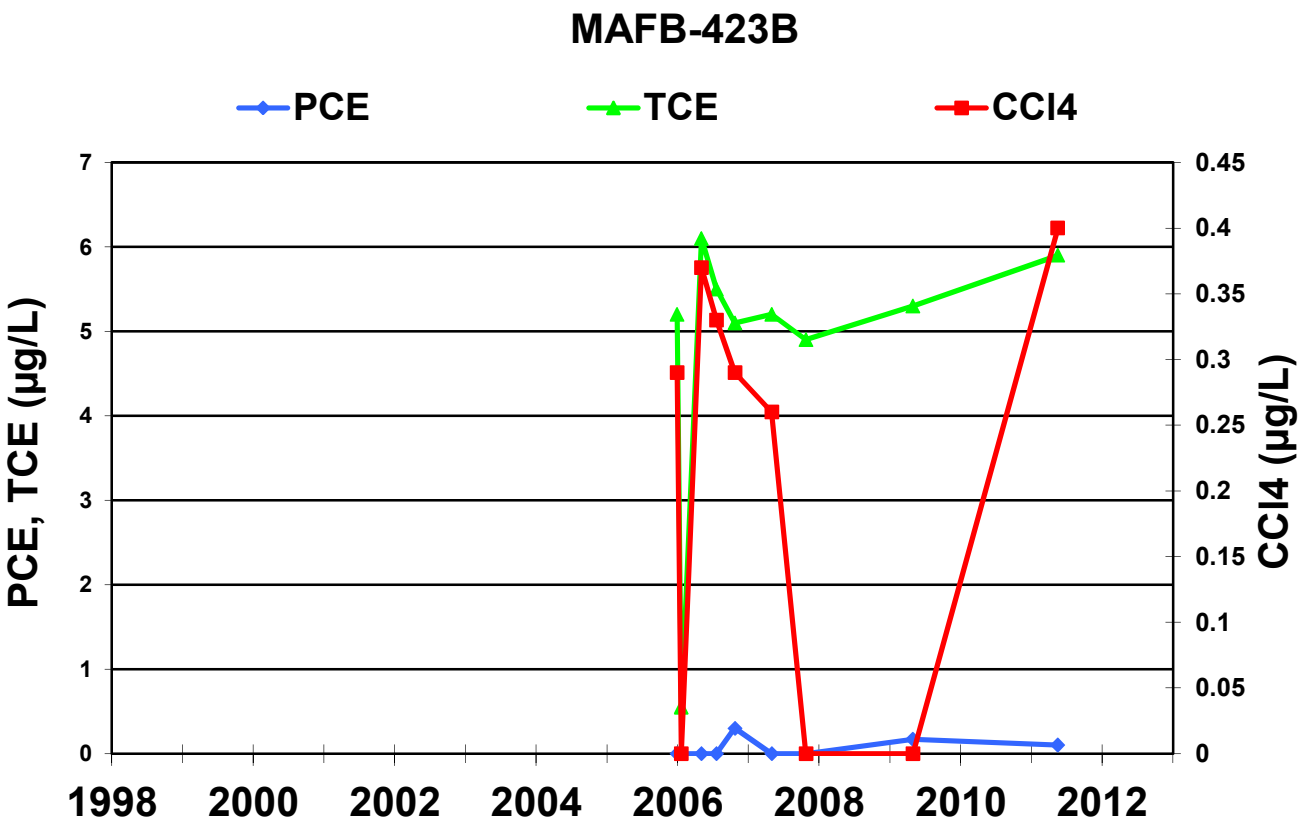

MAFB-419
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

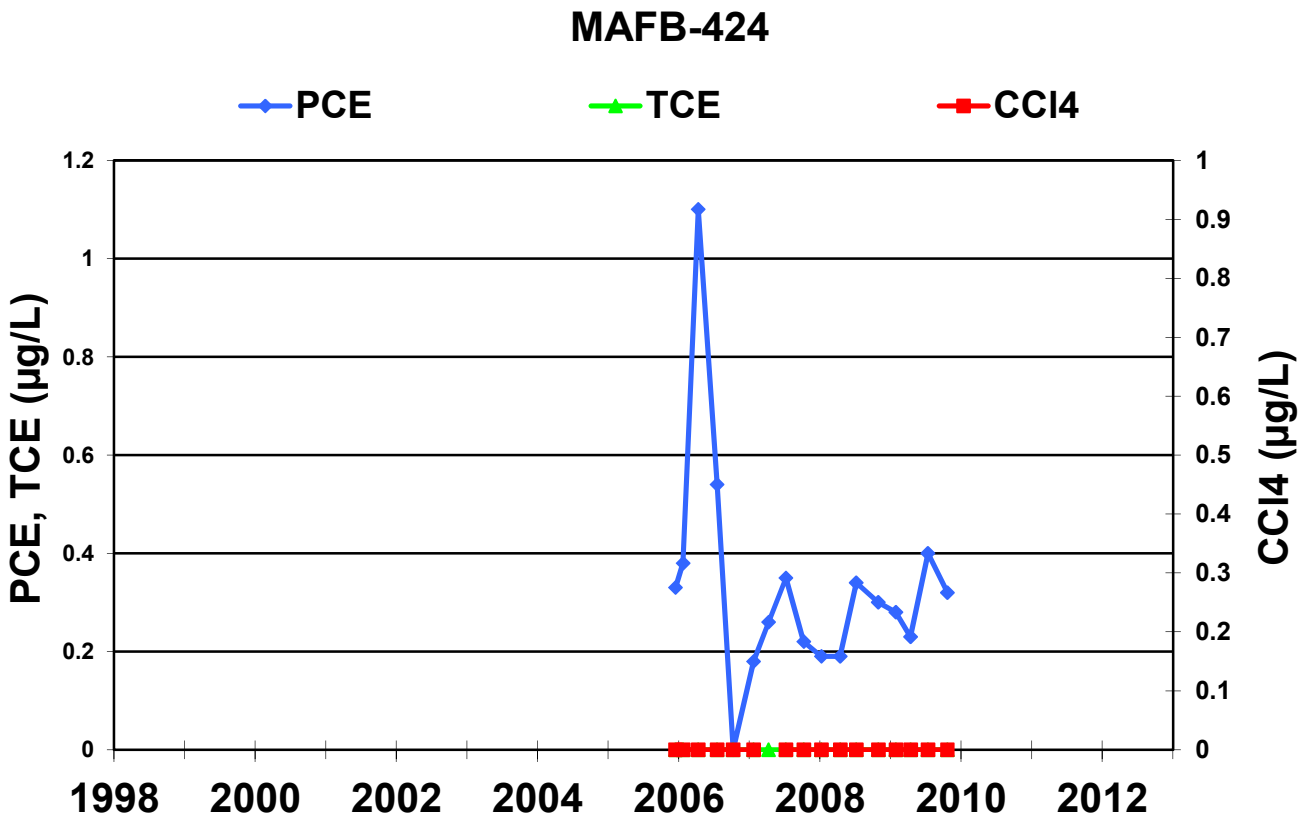

MAFB-420
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
900
800
700
600
500
400
300
200
100
0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

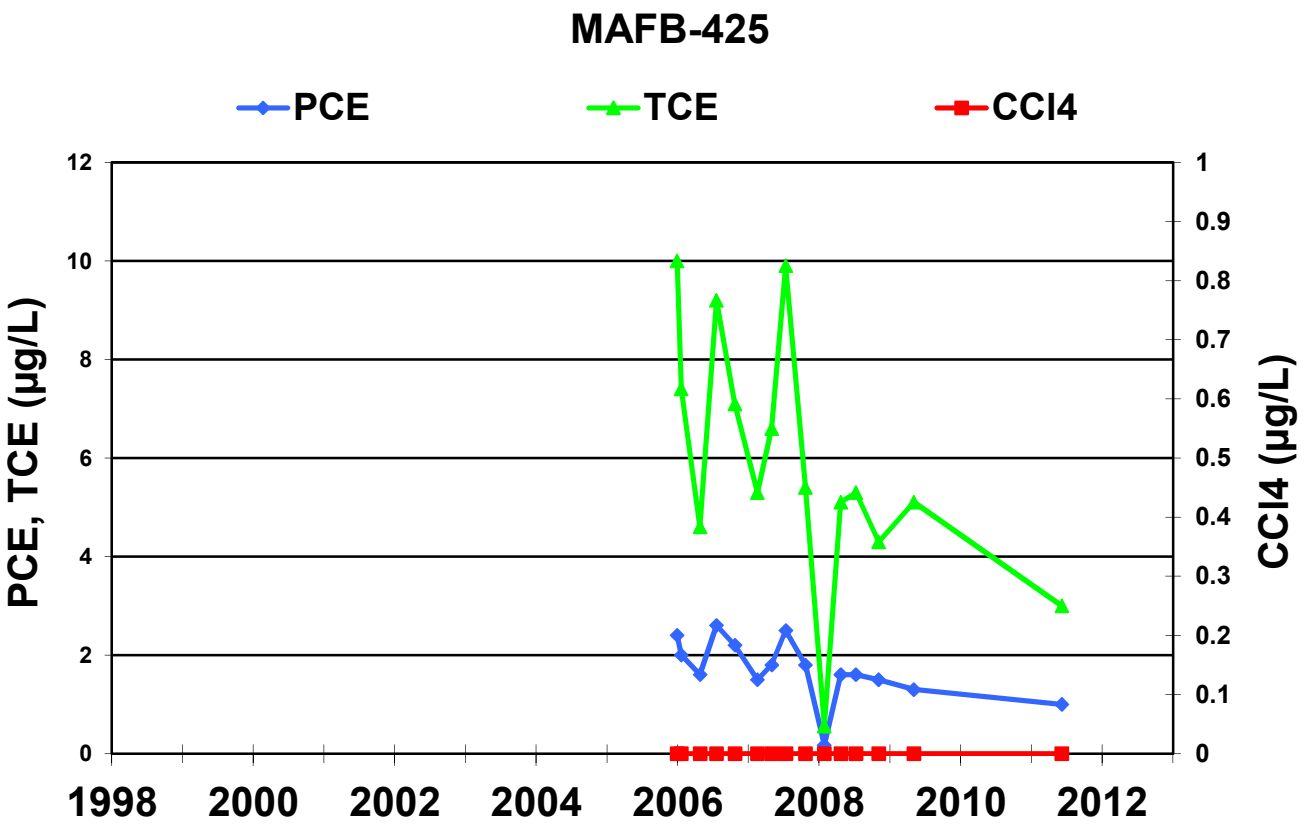

MAFB-421
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
14
12
10
8
6
4
2
0
0.12
0.1
0.08
0.06
0.04
0.02
0
1998
2000
2002
2004
2006
2008
2010
2012

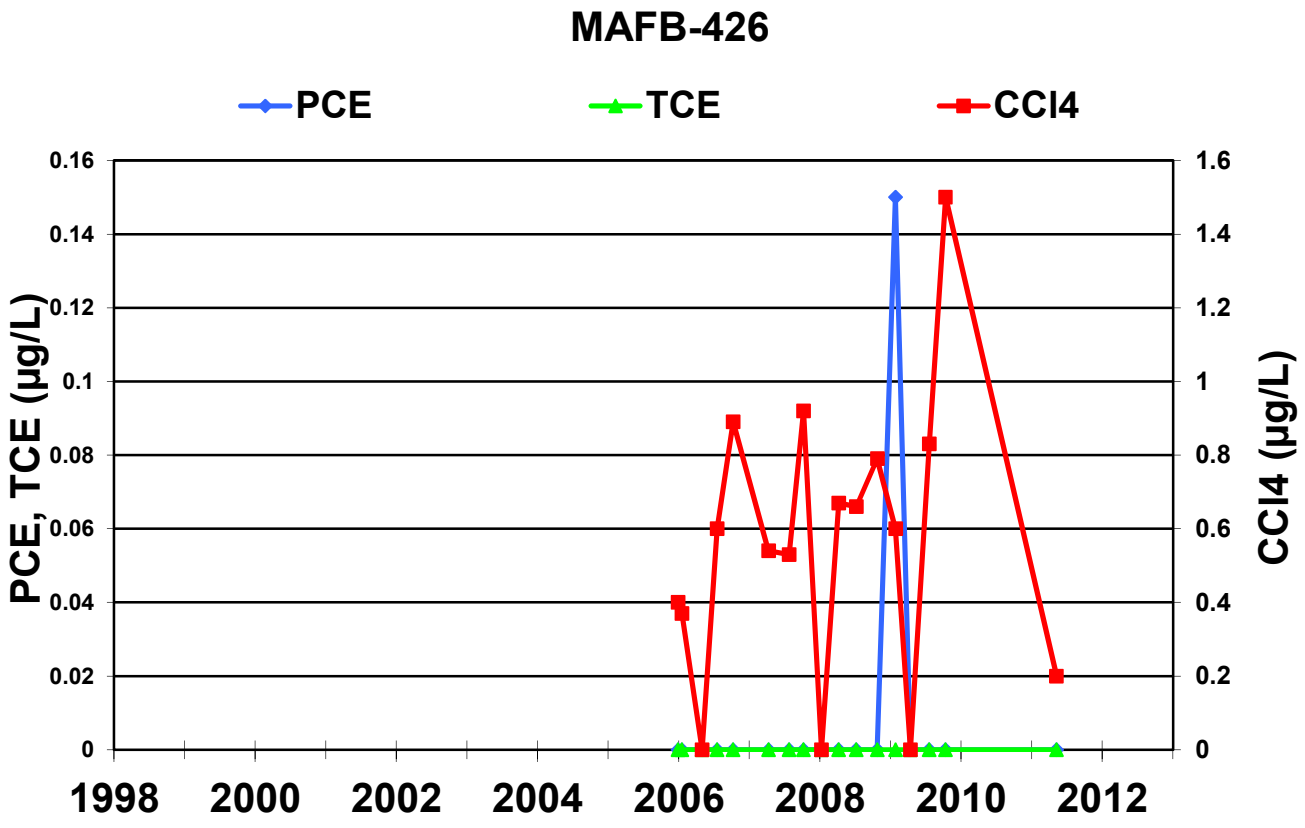

MAFB-422
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

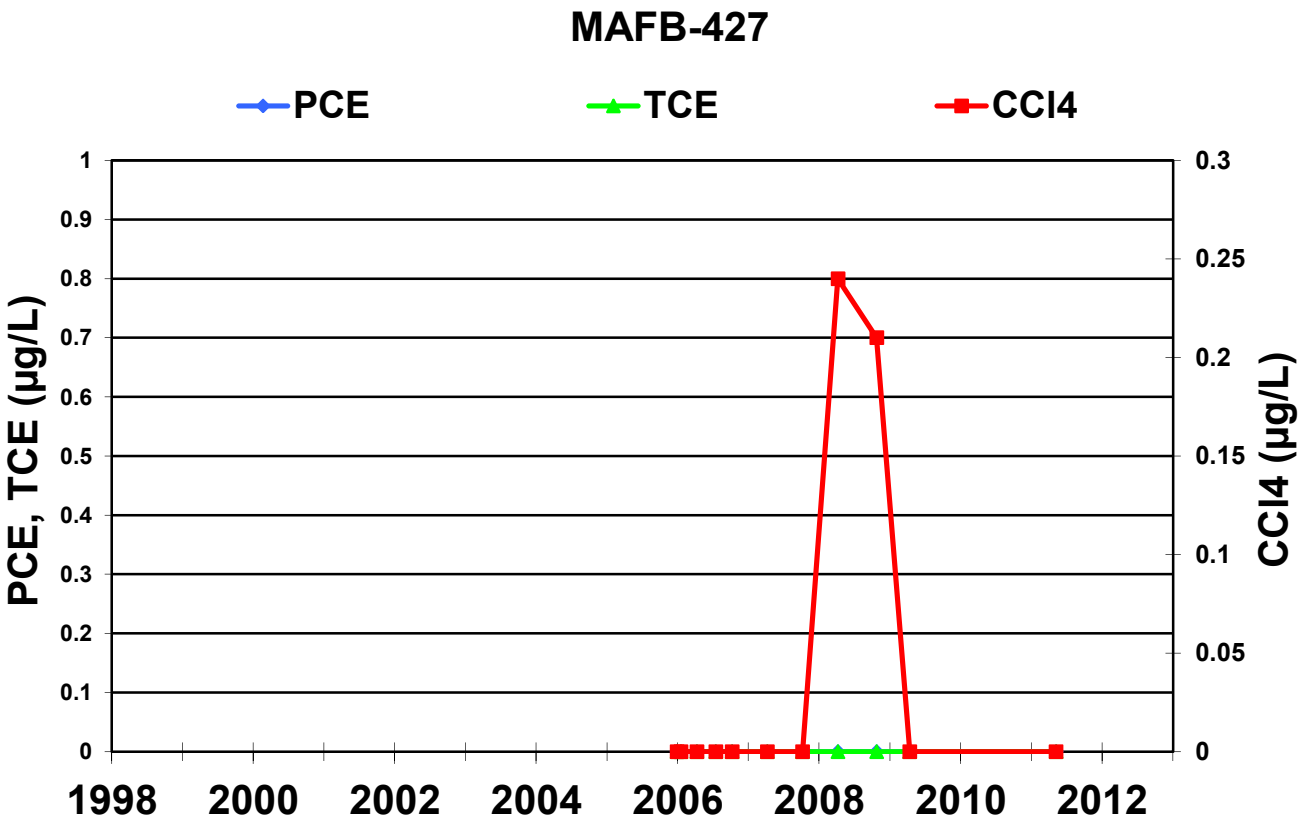

MAFB-423
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
6
5
4
3
2
1
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

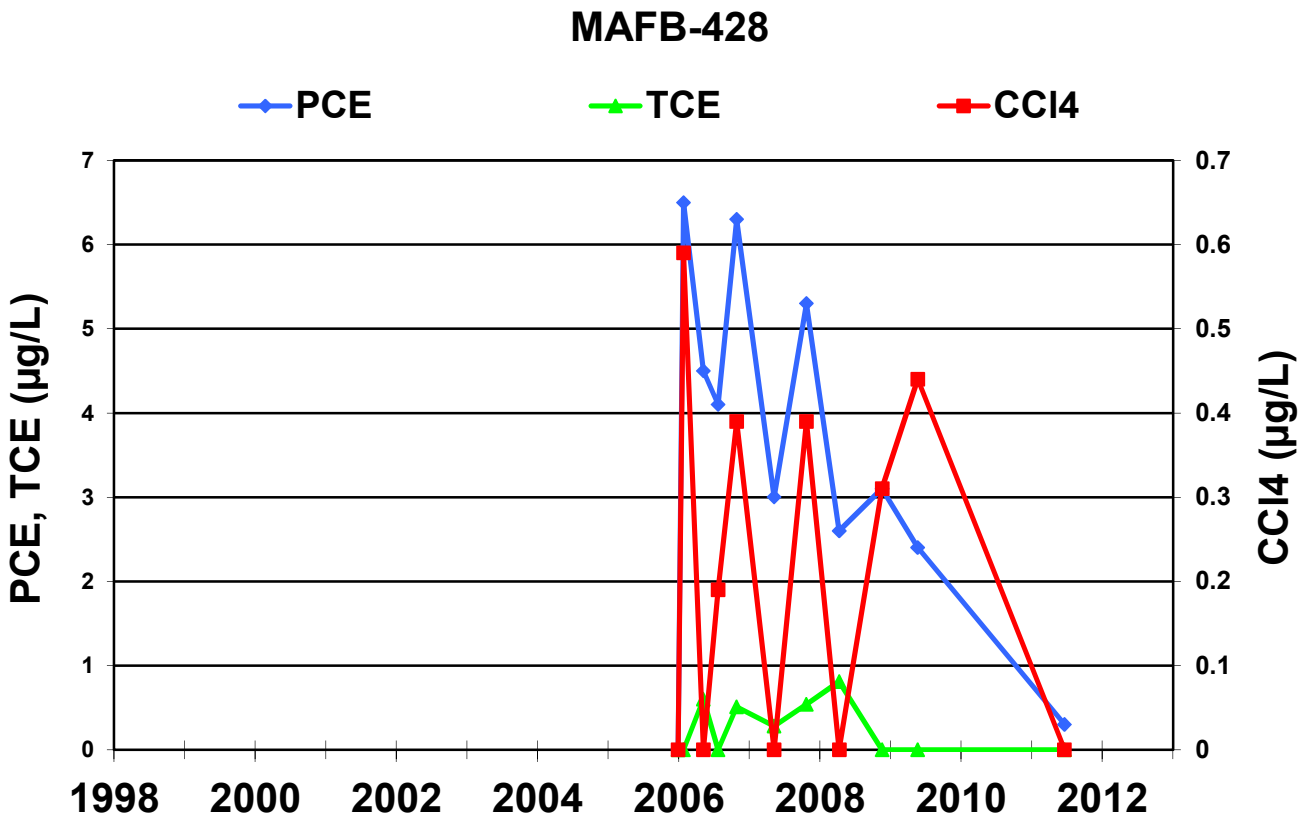

MAFB-423B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
1
2
3
4
5
6
7
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
0.45
1998
2000
2002
2004
2006
2008
2010
2012

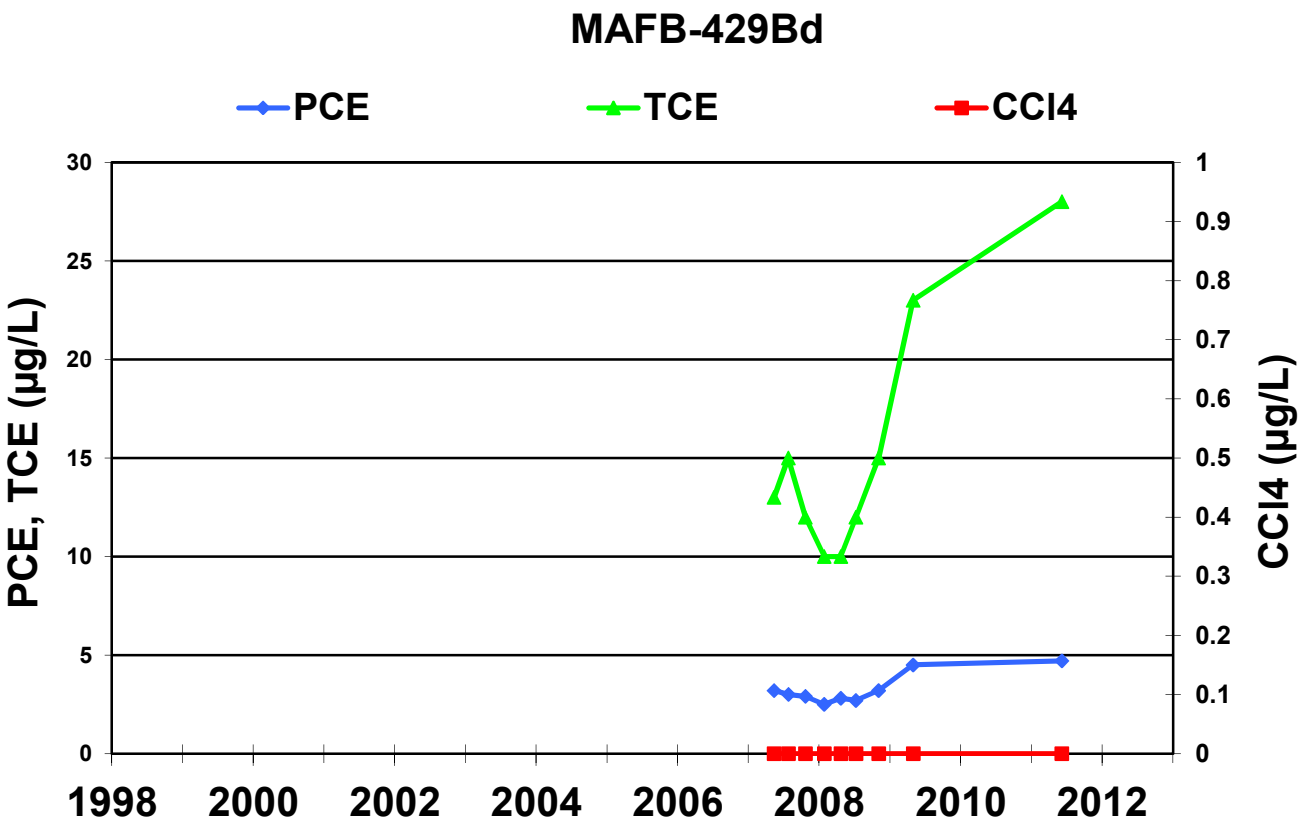

MAFB-424
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
0.2
0.4
0.6
0.8
1
1.2
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1998
2000
2002
2004
2006
2008
2010
2012

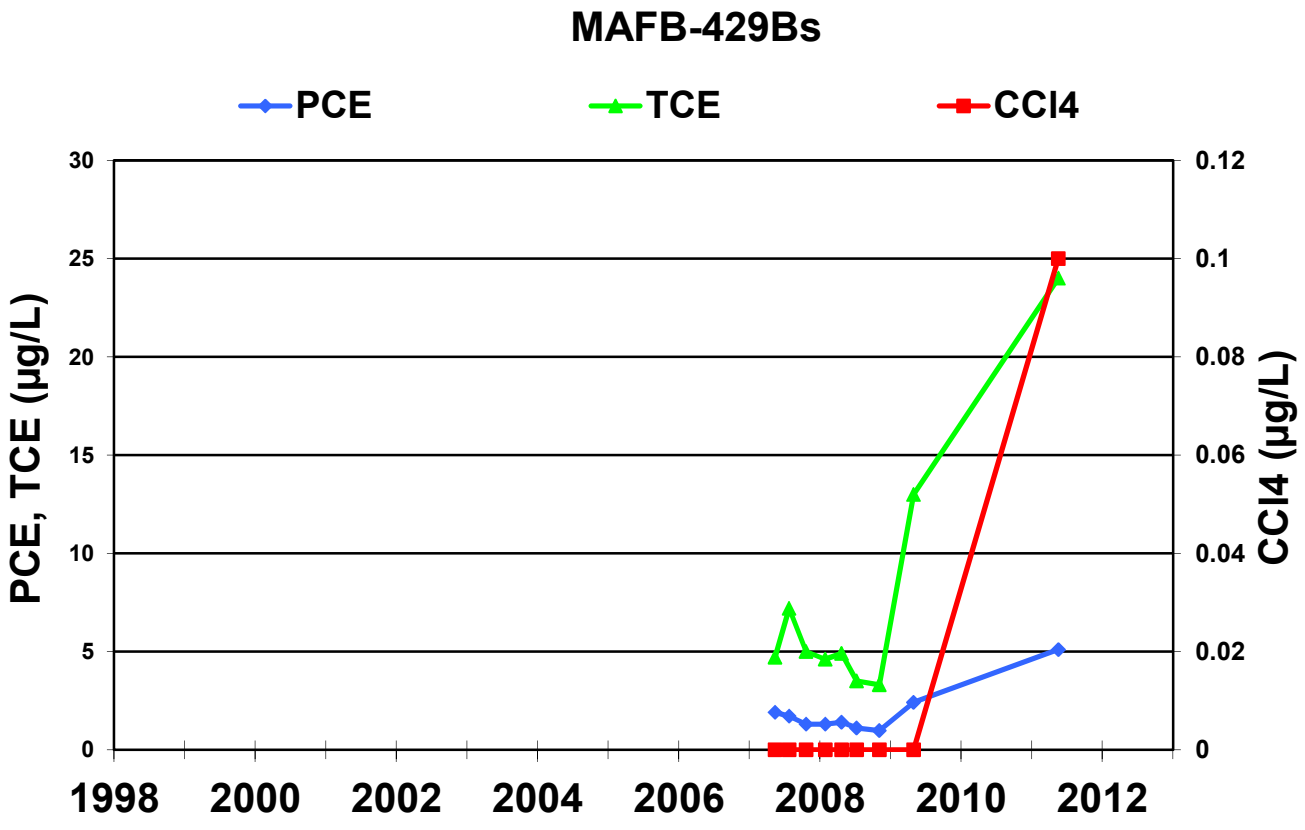

MAFB-425
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

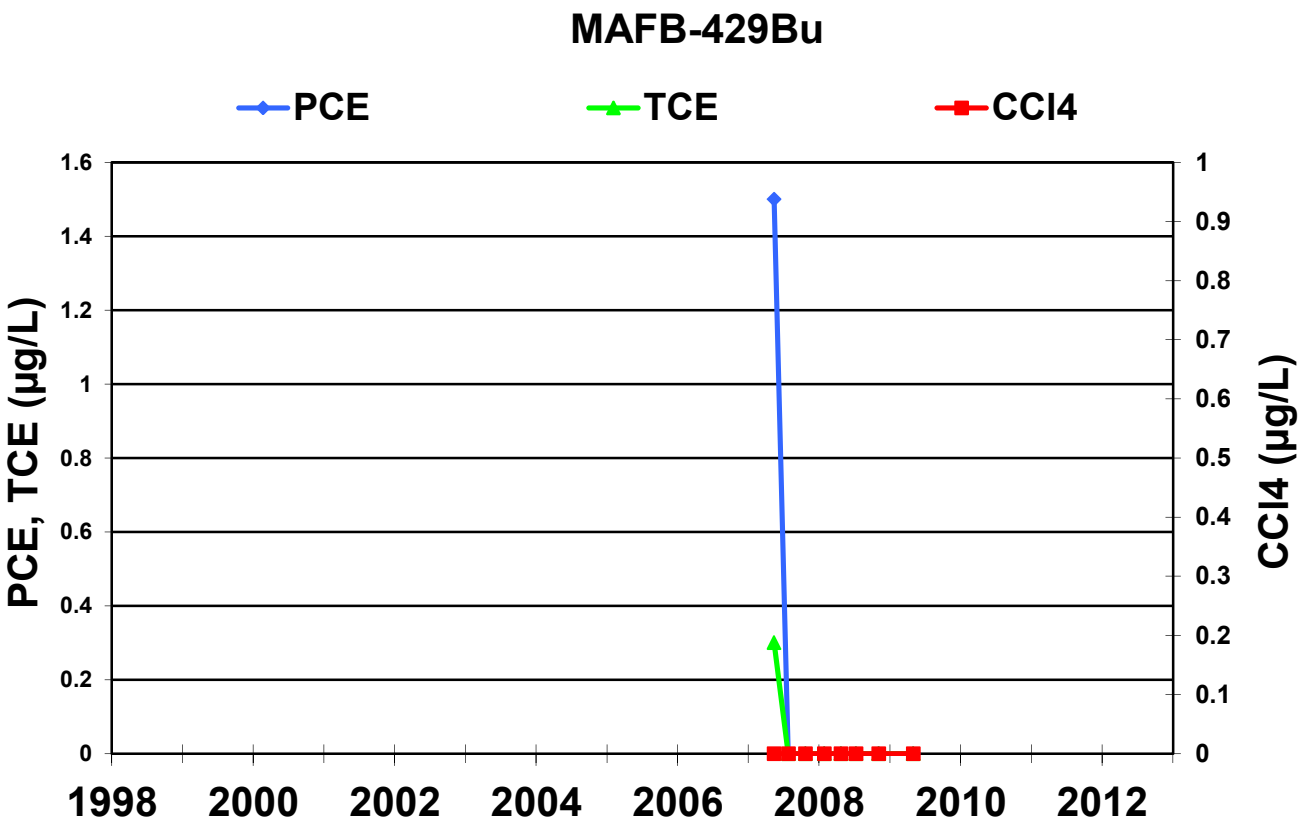

MAFB-426
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

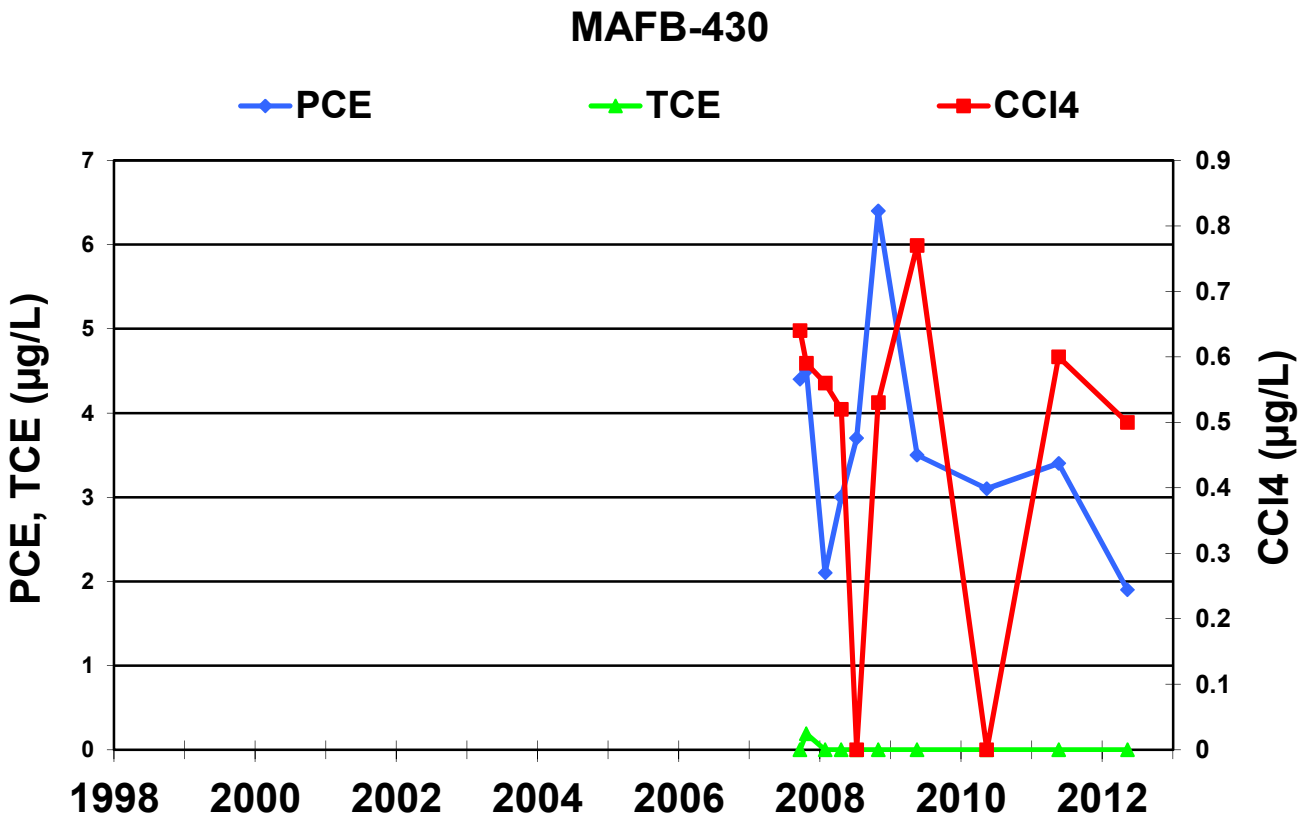

MAFB-427
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

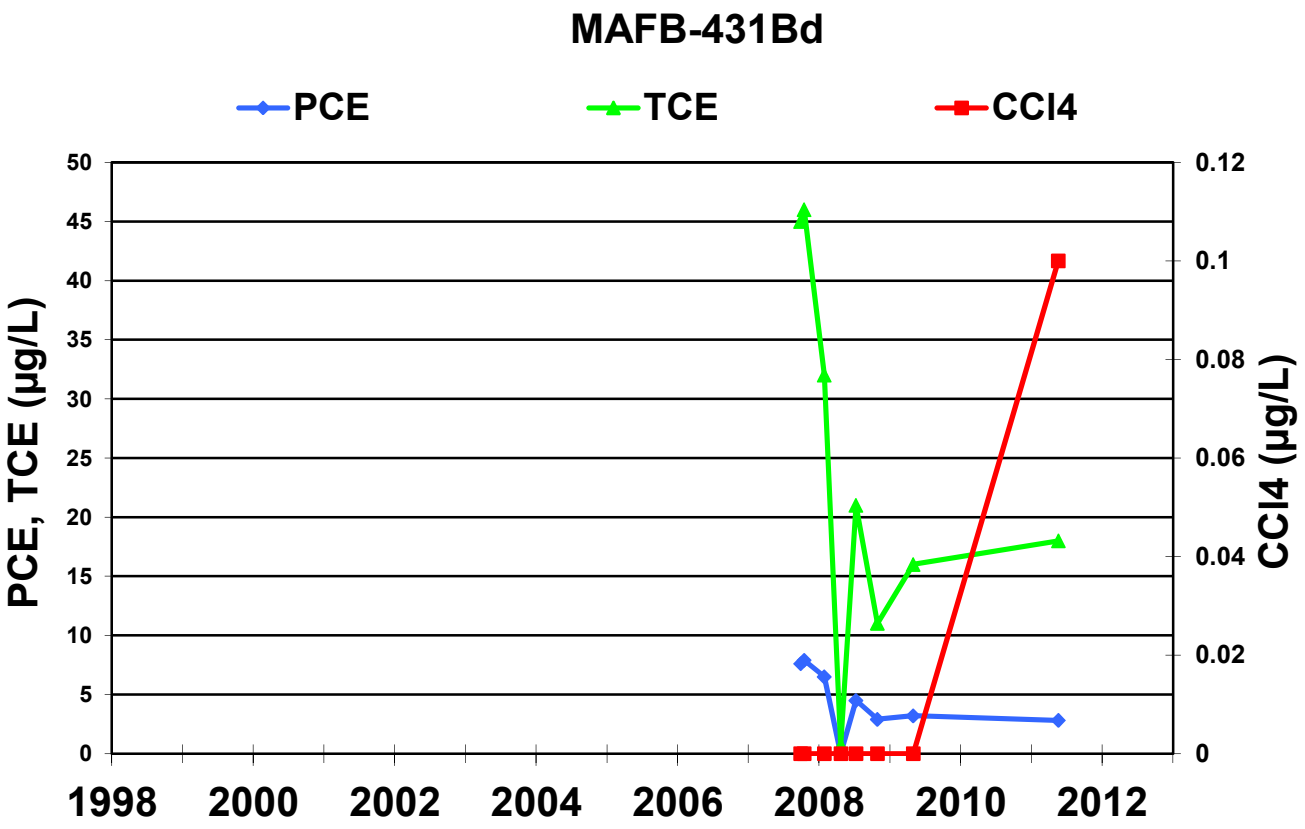

MAFB-428
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
7
6
5
4
3
2
1
0
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

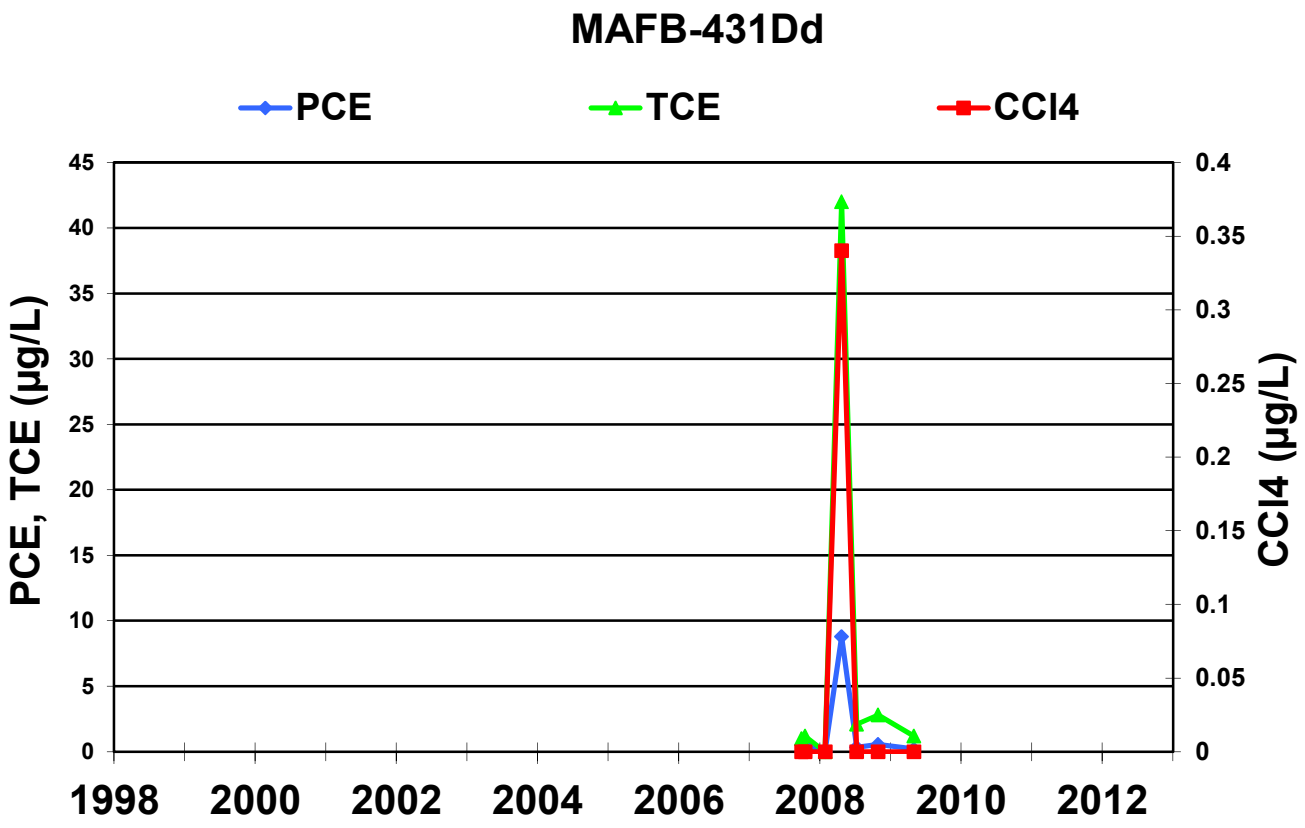

MAFB-429Bd
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
30
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

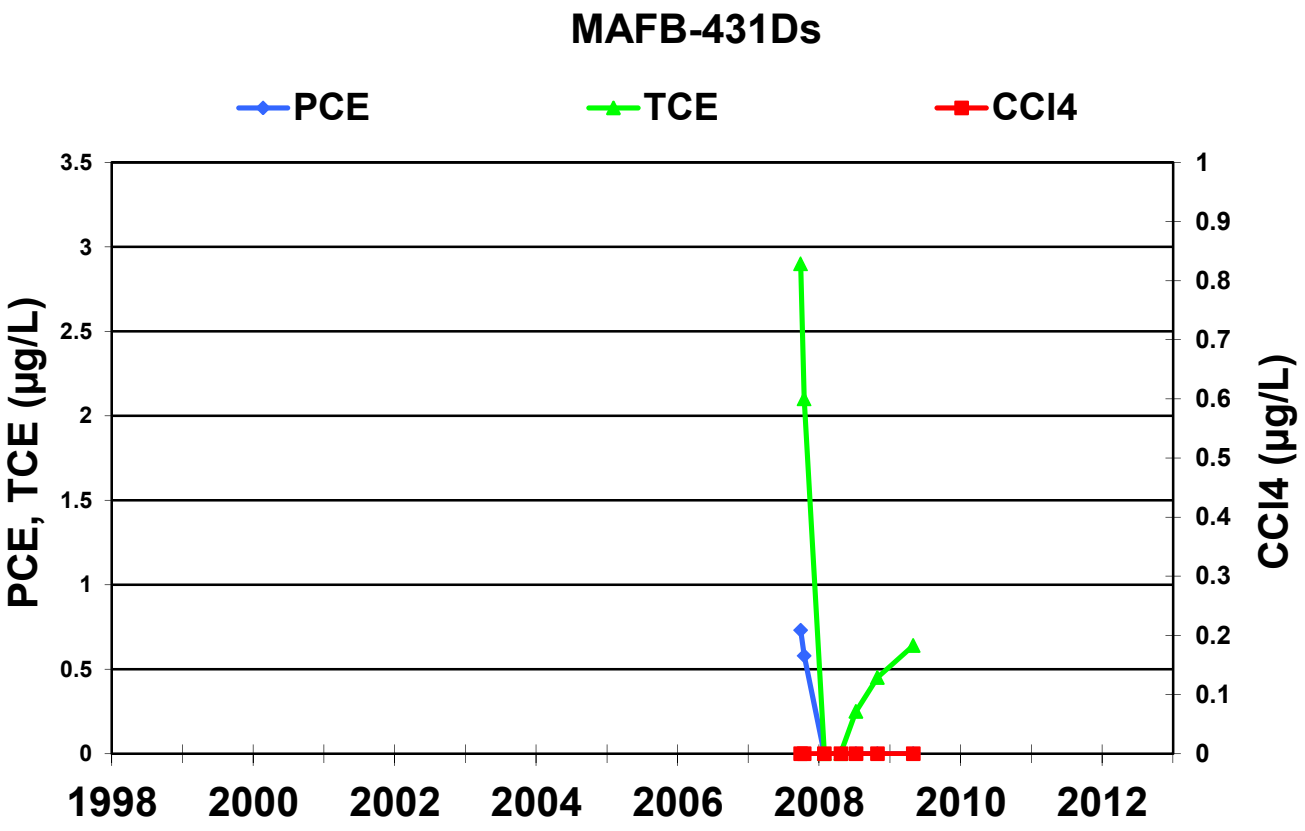

MAFB-429Bs
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
30
25
20
15
10
5
0
0.12
0.1
0.08
0.06
0.04
0.02
0
1998
2000
2002
2004
2006
2008
2010
2012

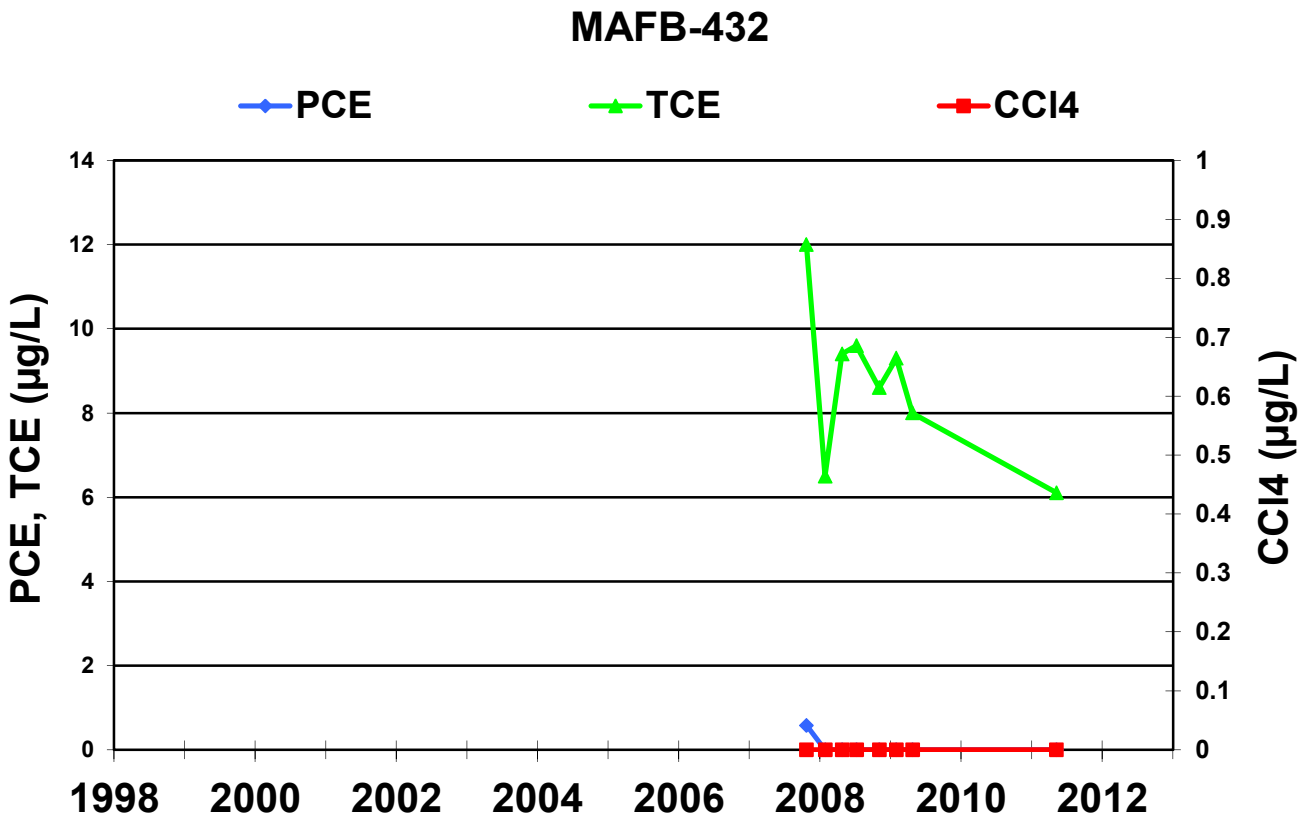

MAFB-429Bu
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

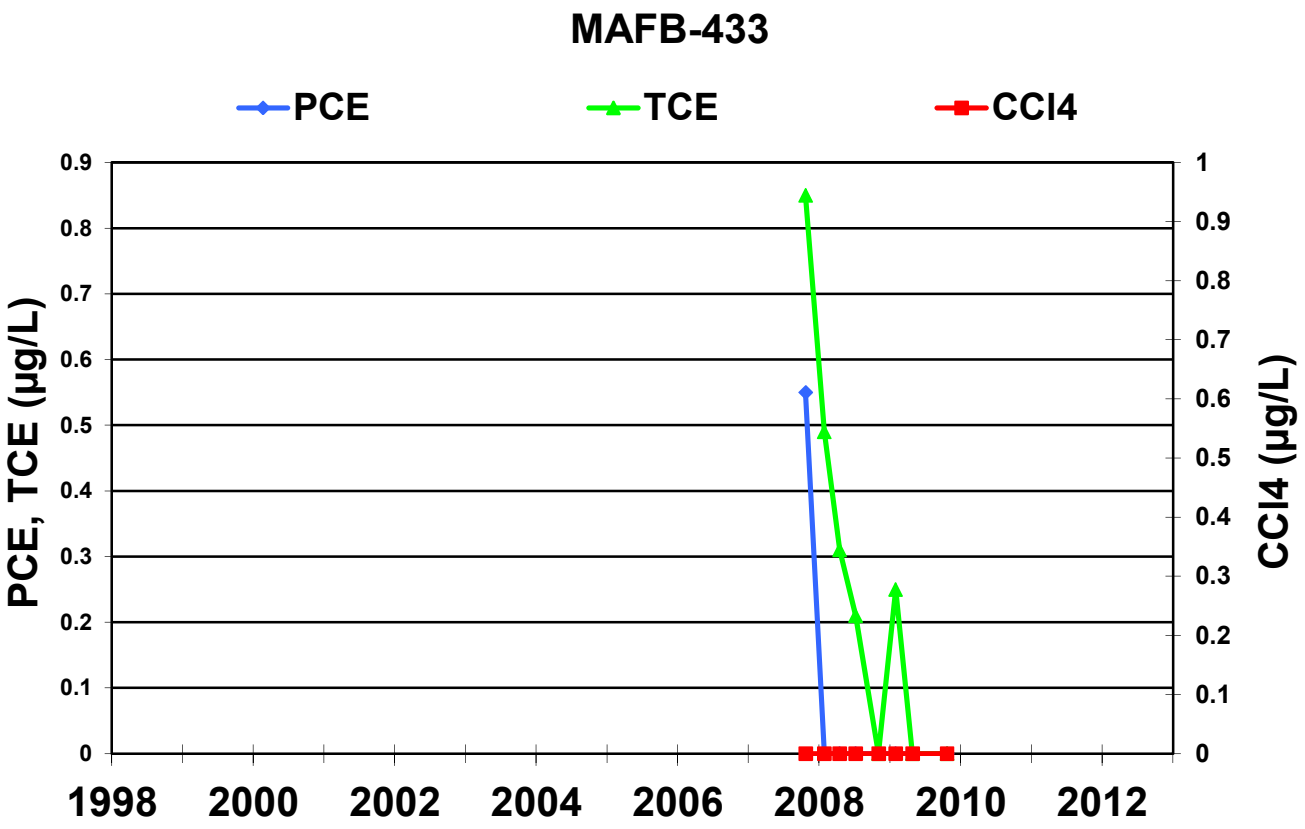

MAFB-430
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
7
6
5
4
3
2
1
0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

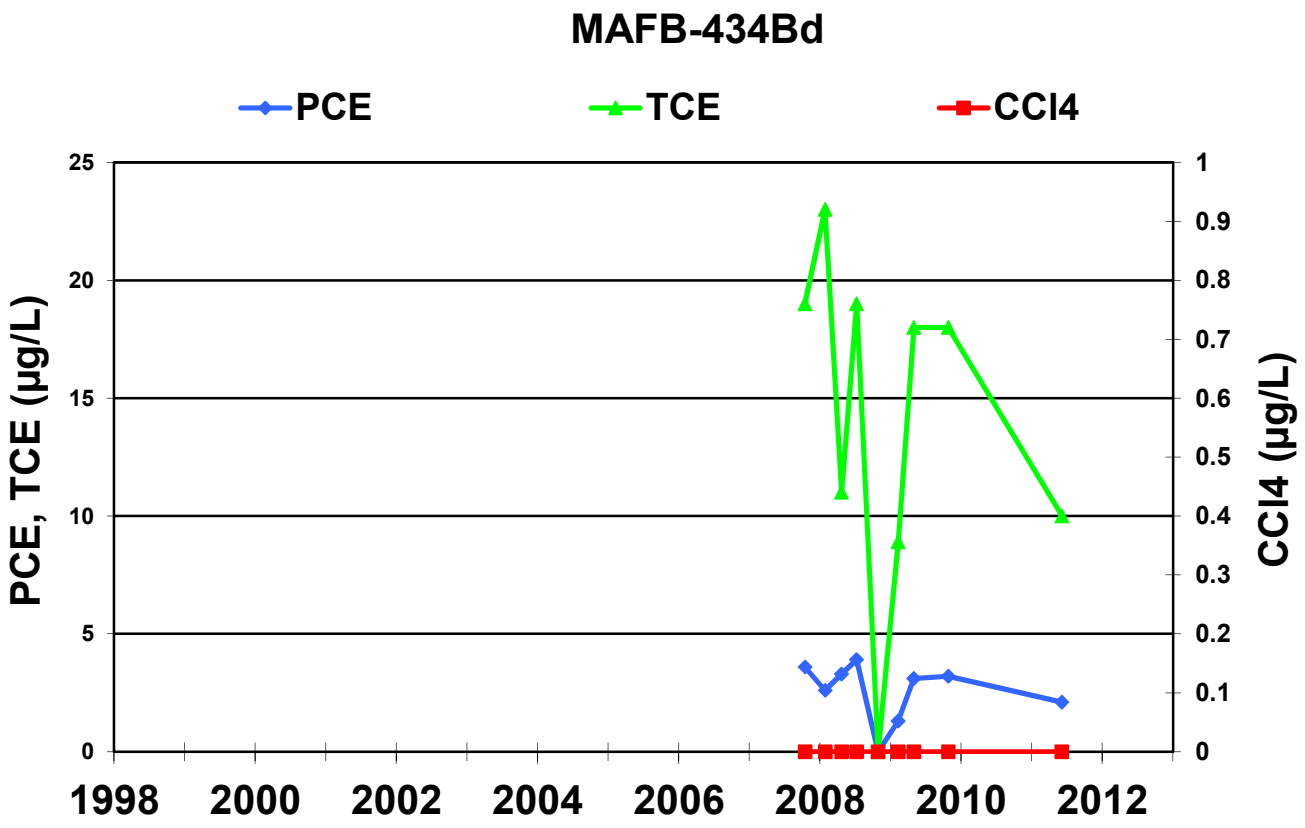

MAFB-431Bd
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
50
45
40
35
30
25
20
15
10
5
0
0.12
0.1
0.08
0.06
0.04
0.02
0
1998
2000
2002
2004
2006
2008
2010
2012

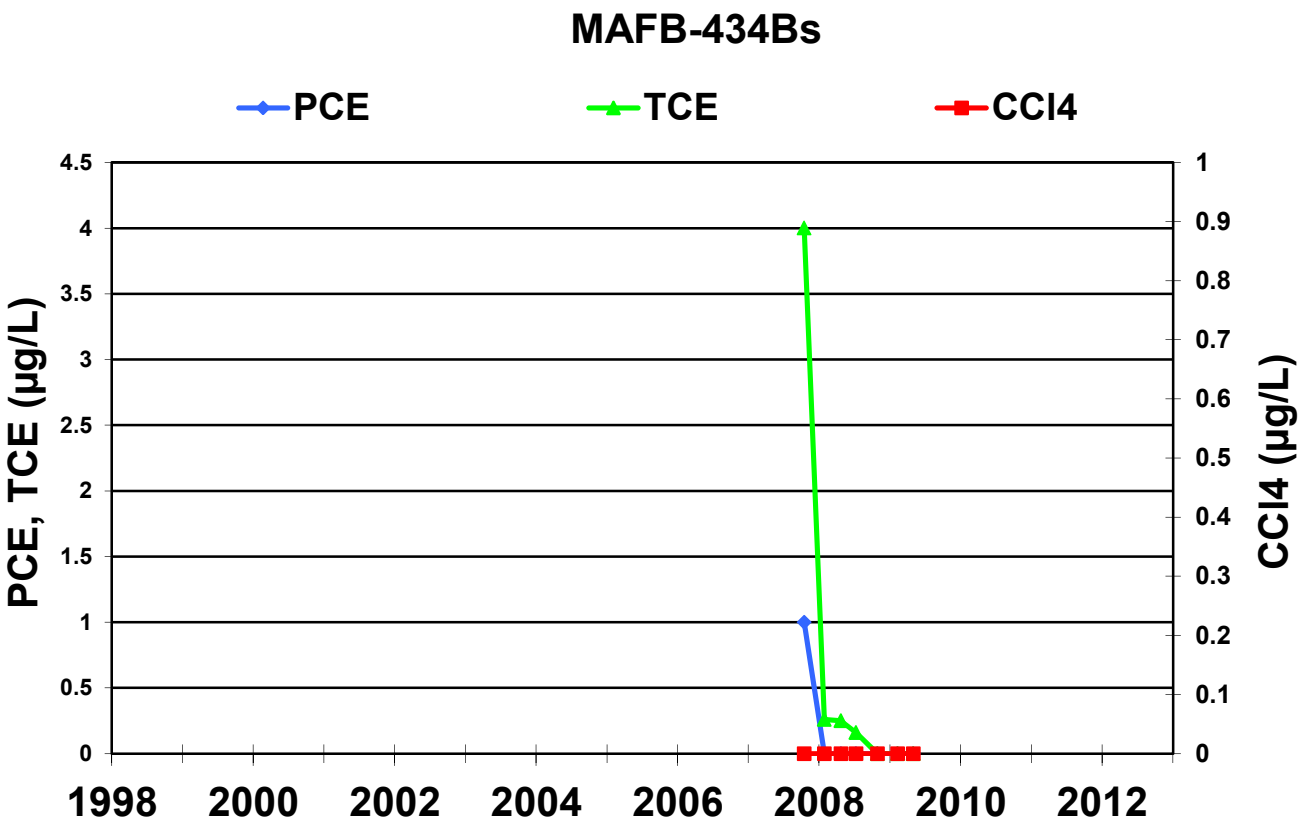

MAFB-431Dd
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
45
40
35
30
25
20
15
10
5
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

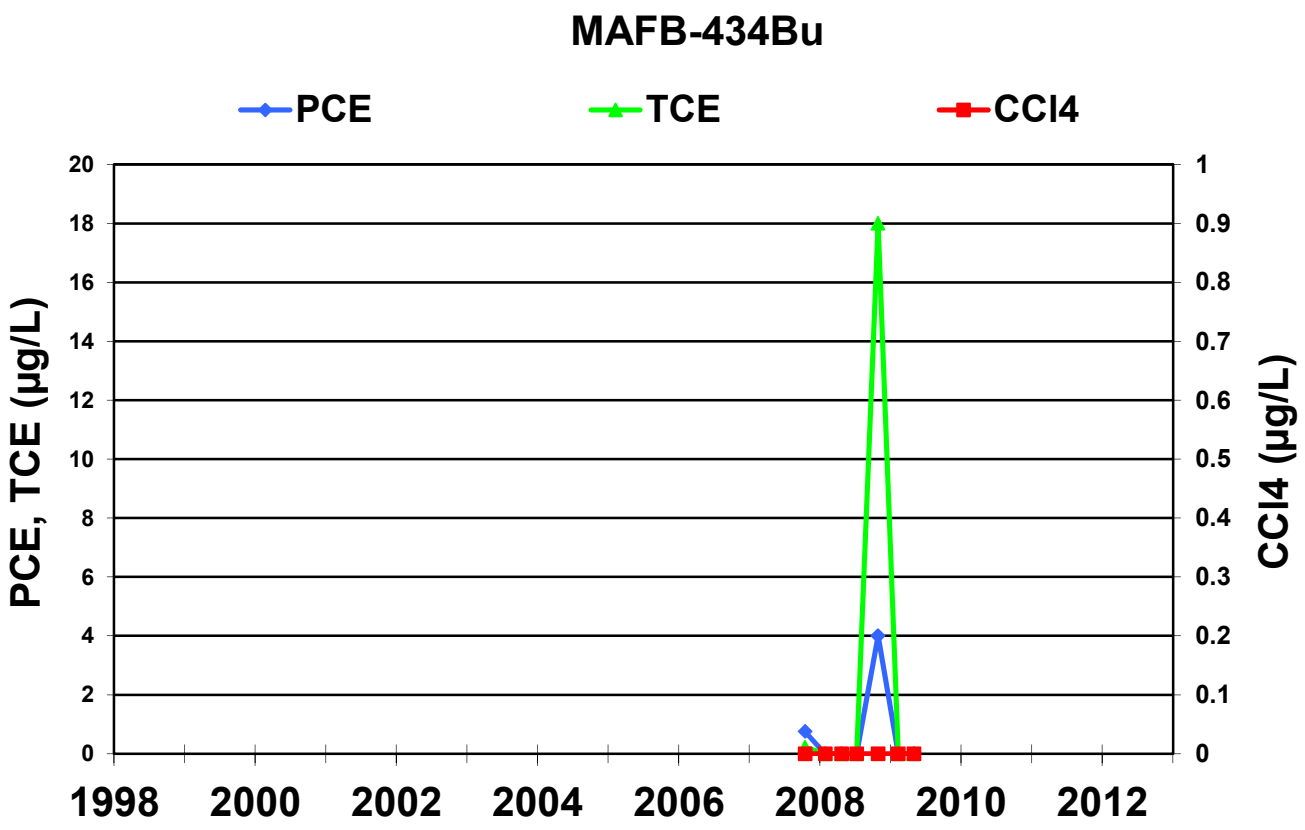

MAFB-431Ds
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

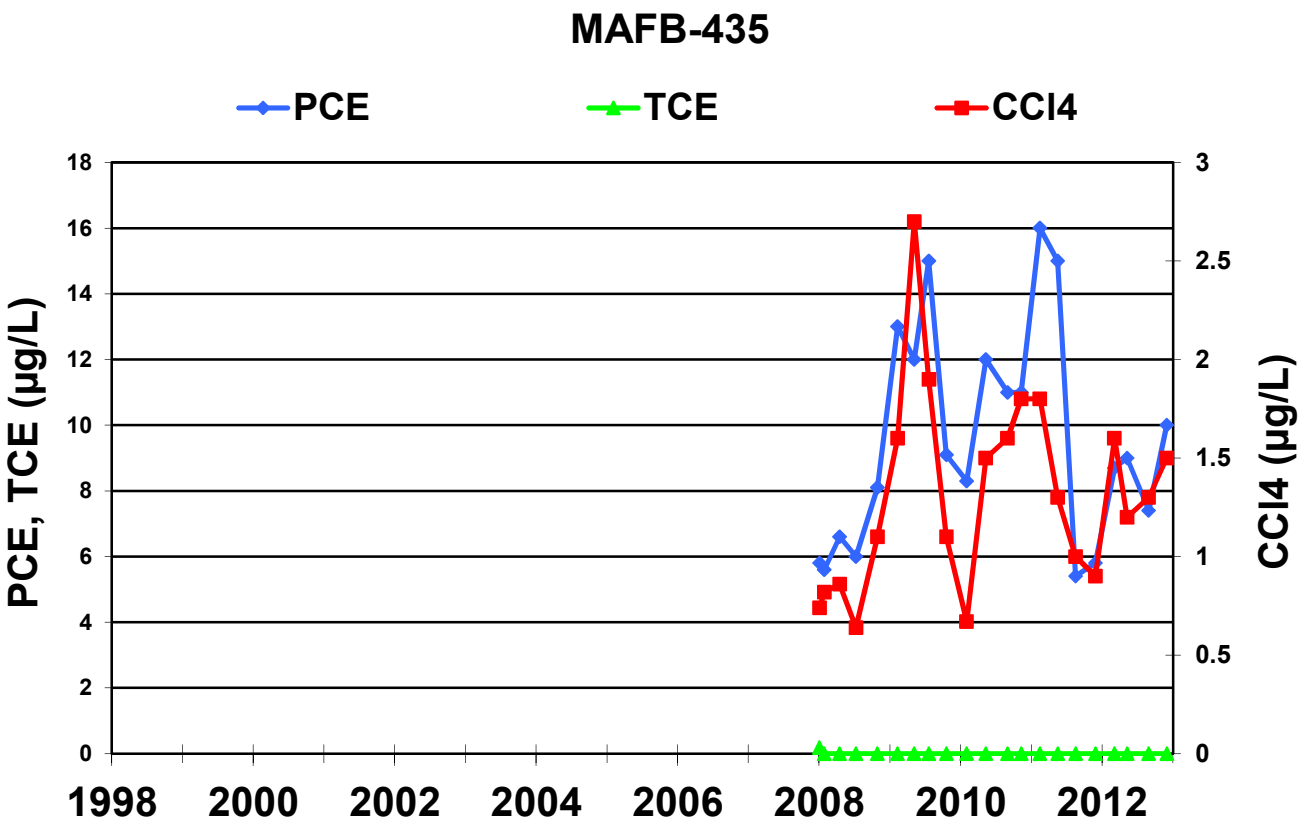

MAFB-432
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

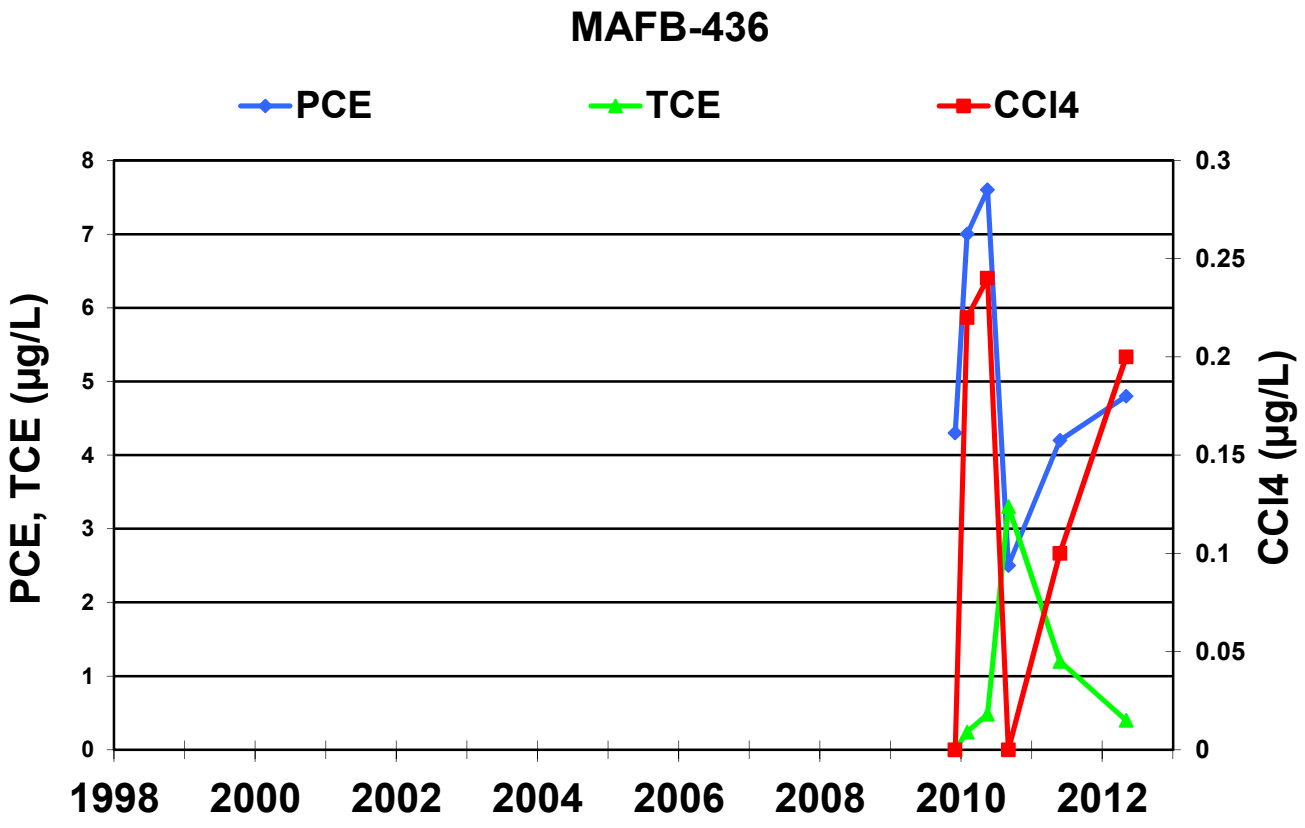

MAFB-433
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
1998
2000
2002
2004
2006
2008
2010
2012

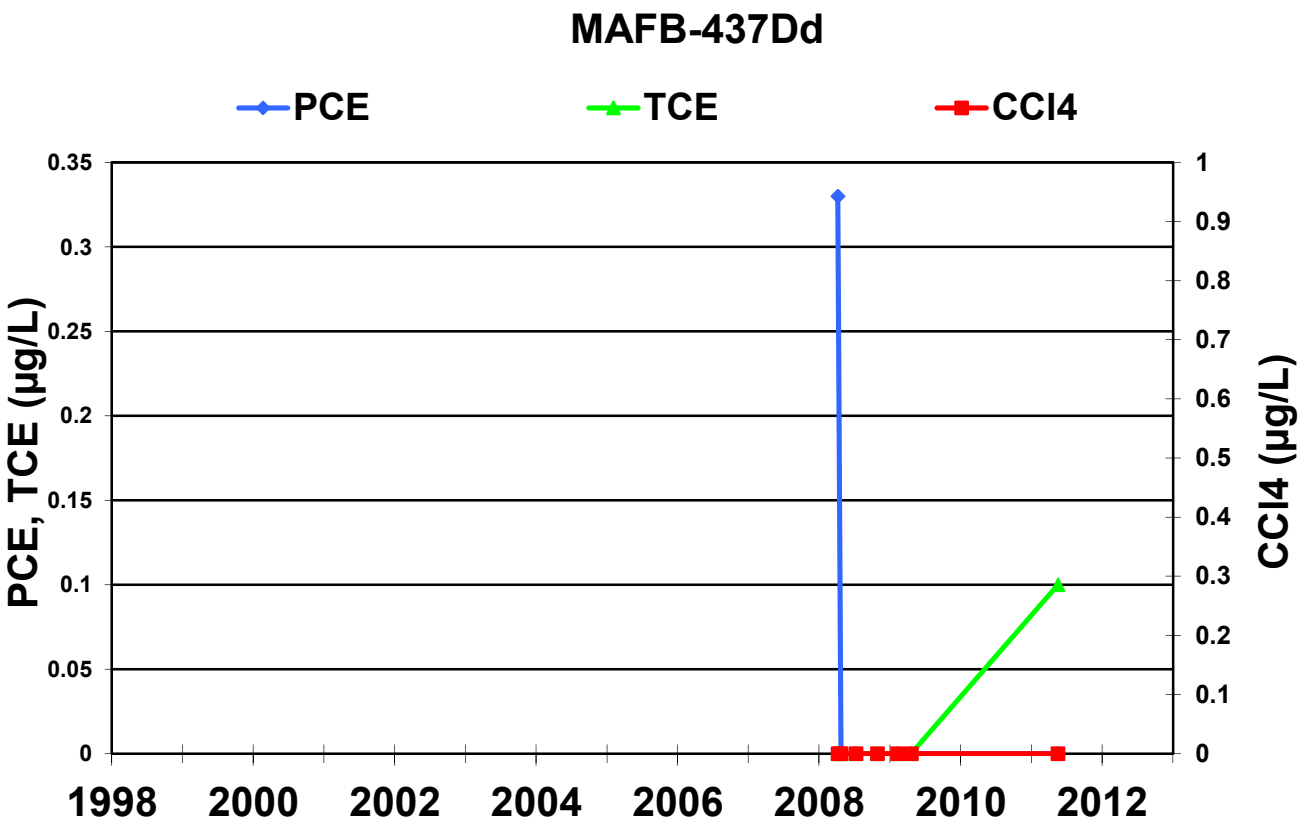

MAFB-434Bd
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
1998
2000
2002
2004
2006
2008
2010
2012

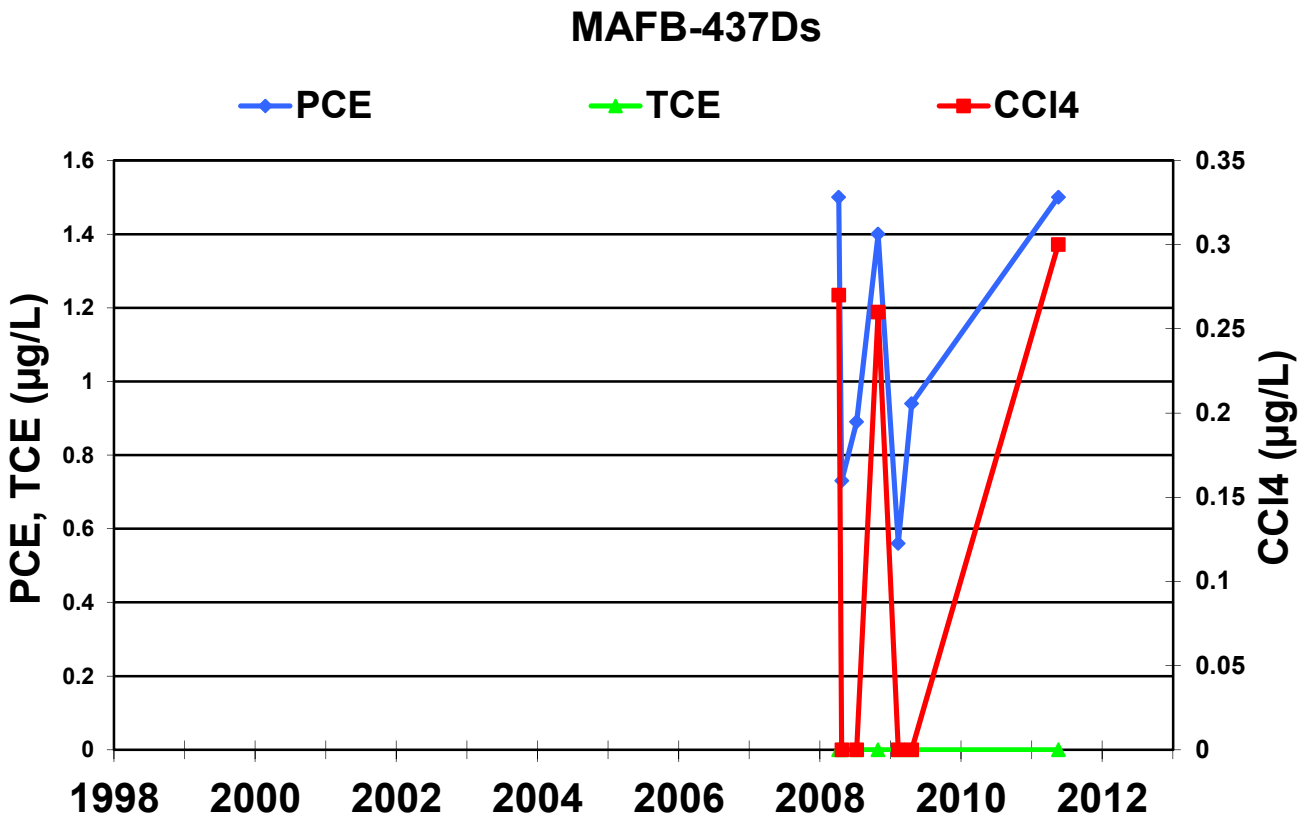

MAFB-434Bs
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

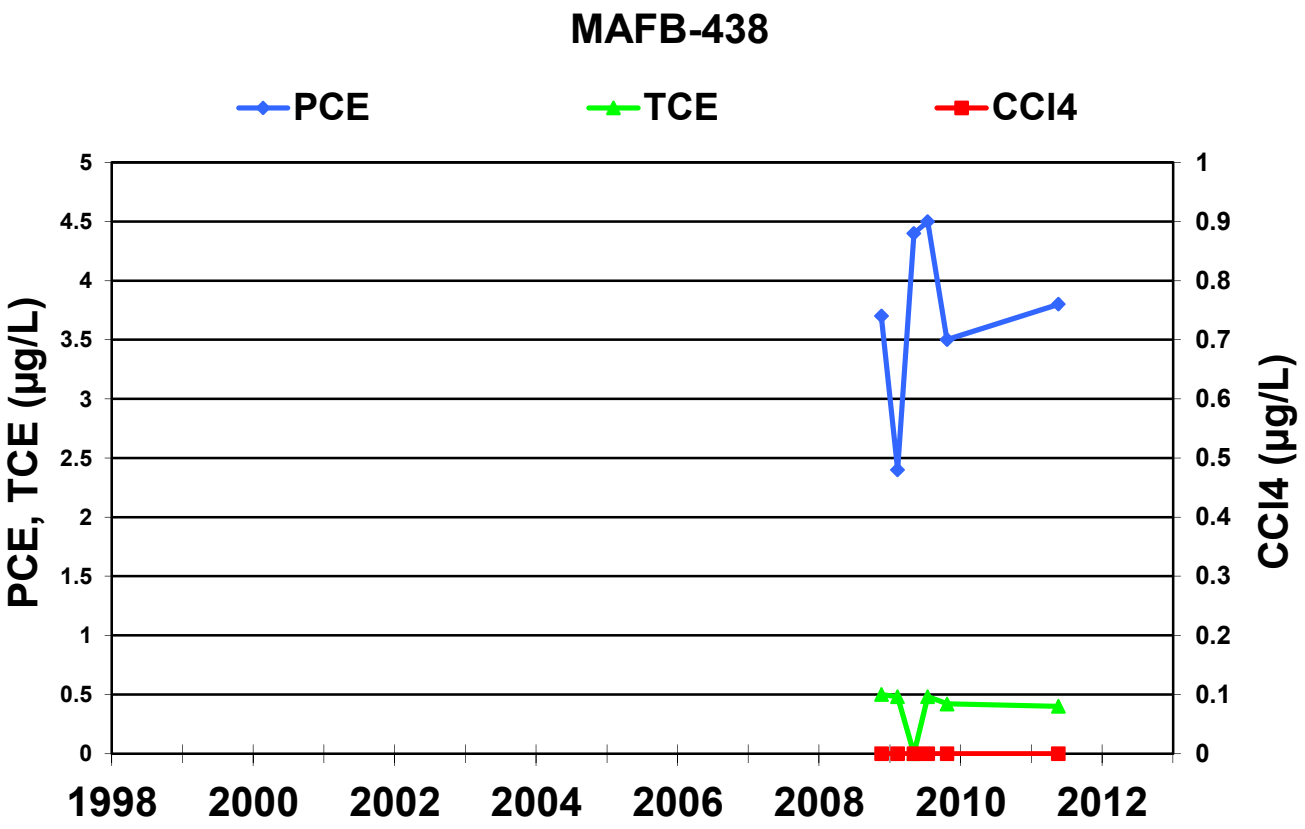

MAFB-434Bu
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
20
18
16
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

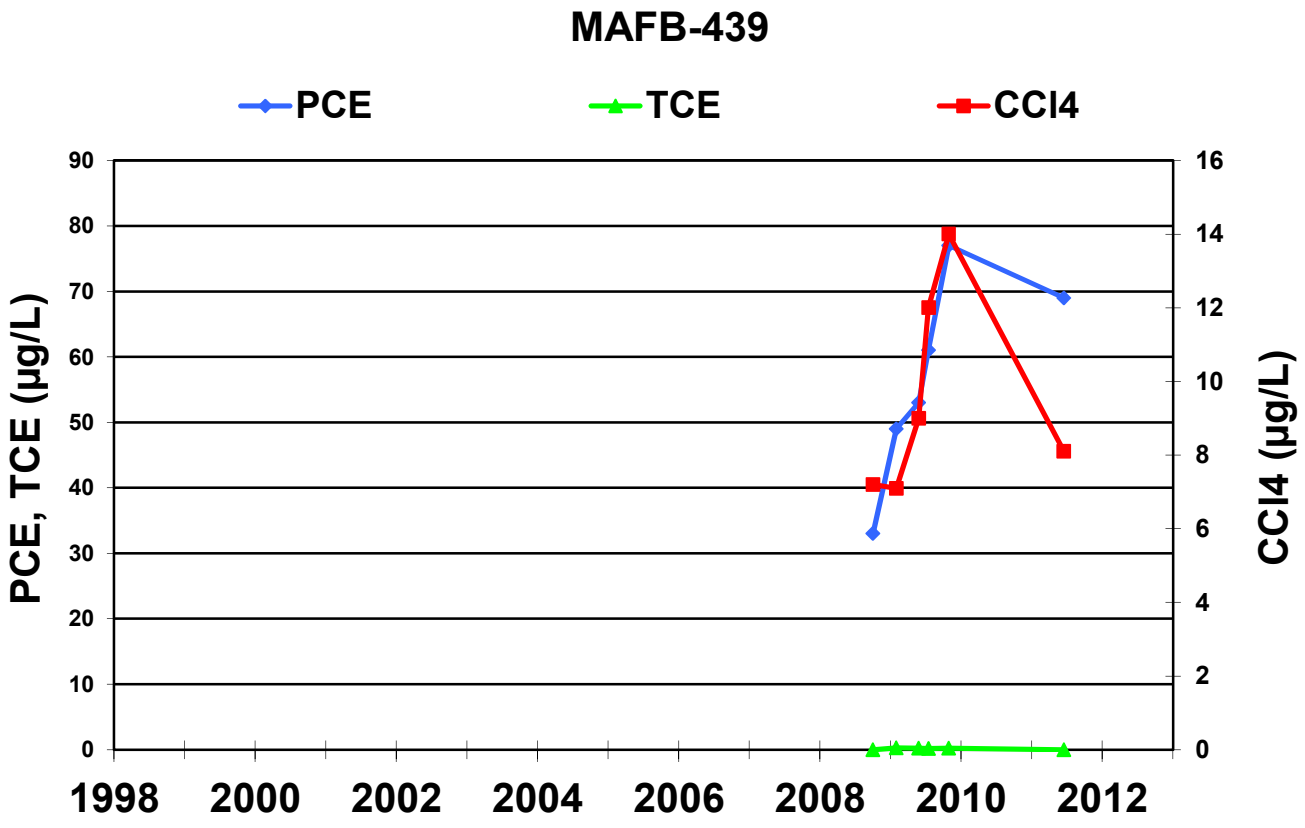

MAFB-435
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
18
16
14
12
10
8
6
4
2
0
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

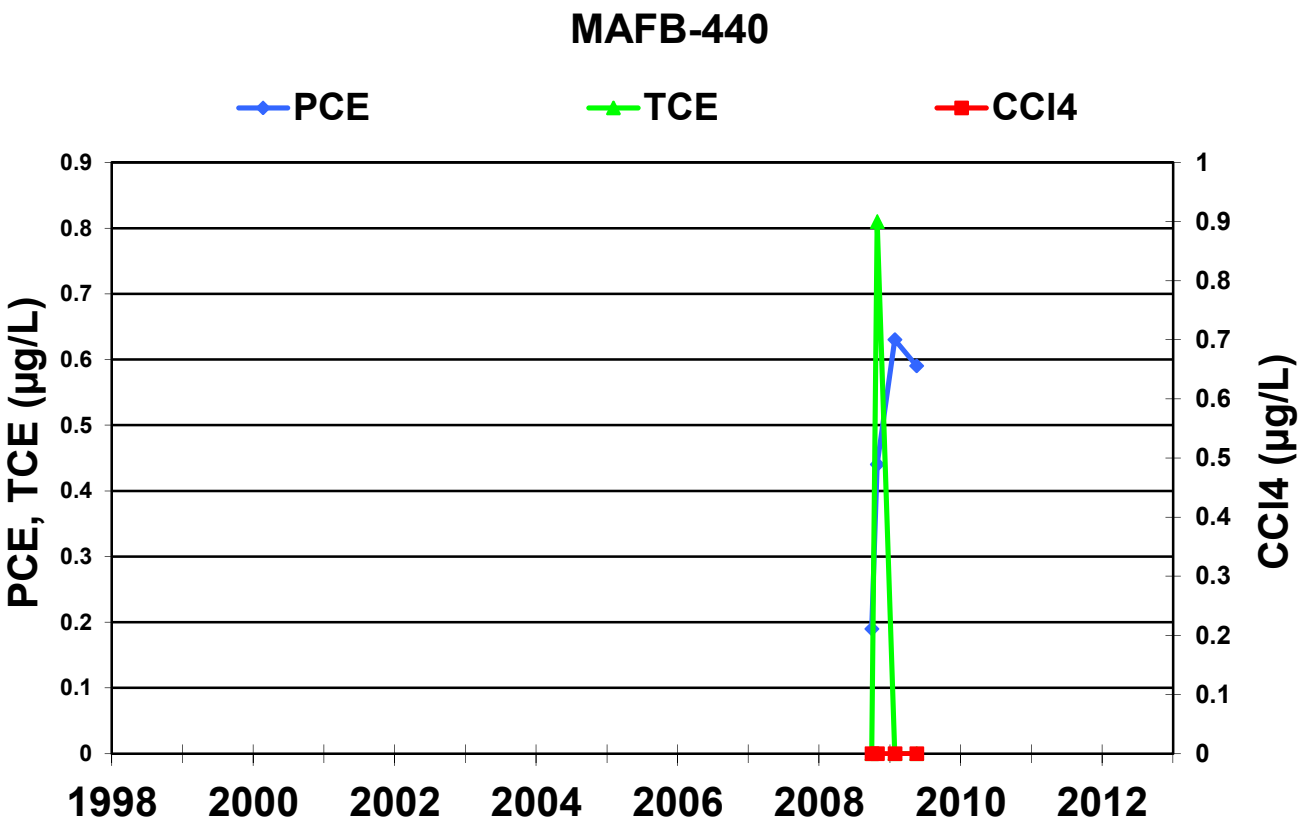

MAFB-436
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
8
7
6
5
4
3
2
1
0
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

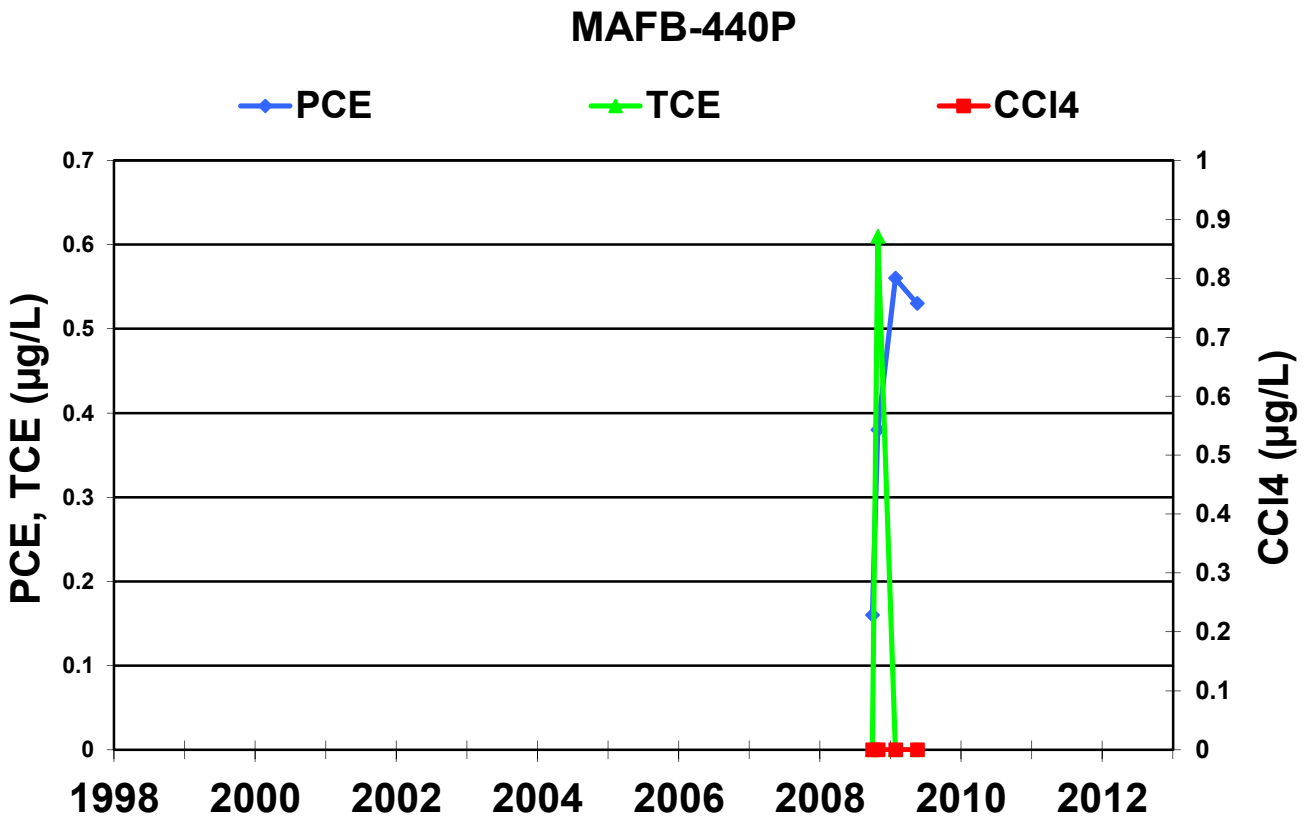

MAFB-437Dd
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

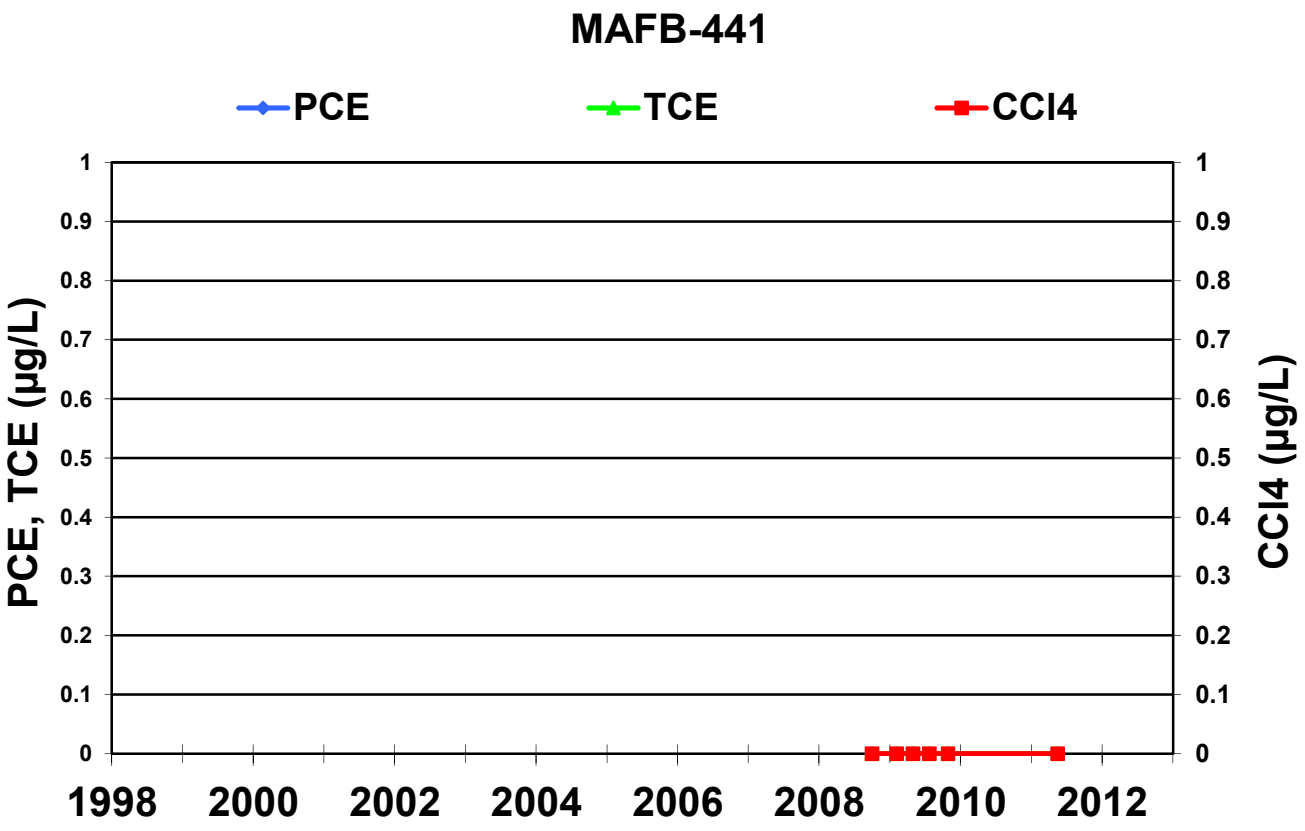

MAFB-437Ds
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

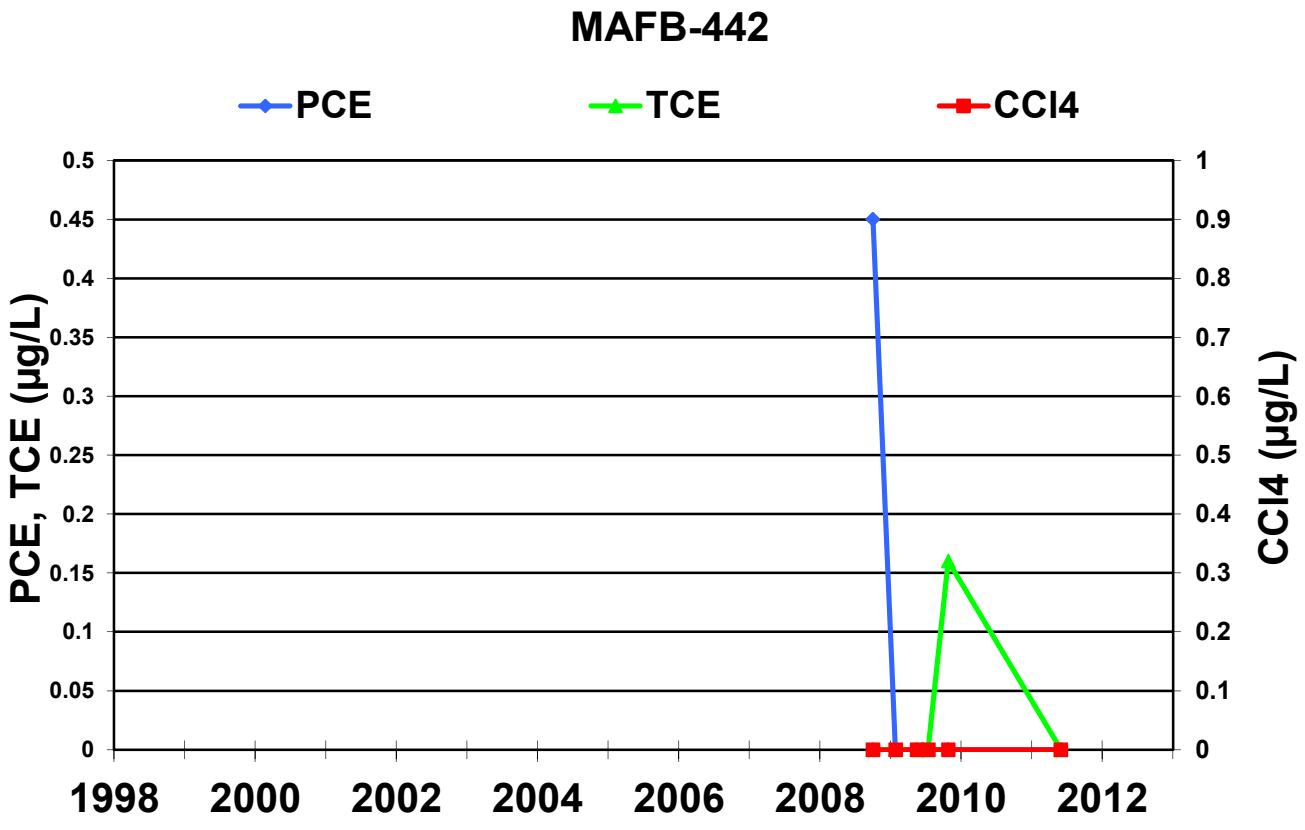

MAFB-438
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

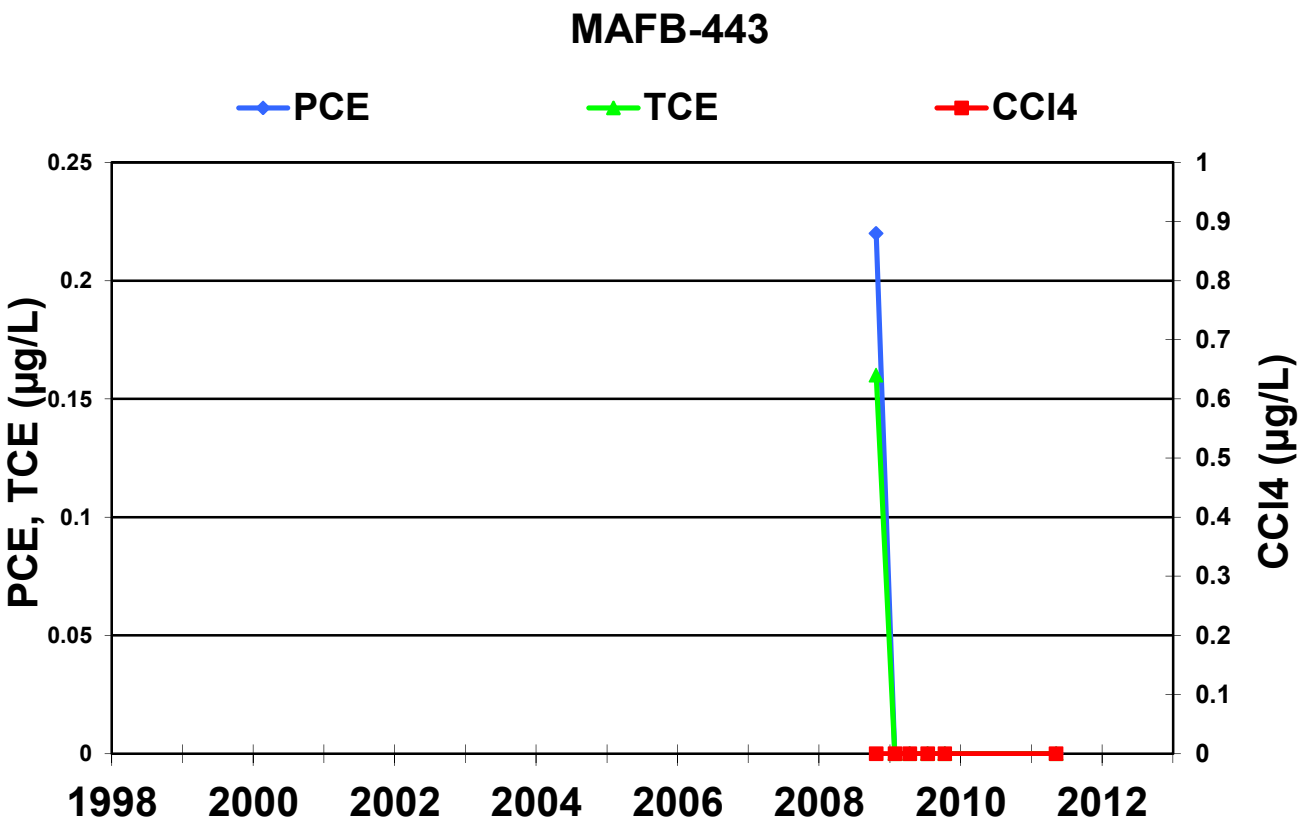

MAFB-439
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
90
80
70
60
50
40
30
20
10
0
16
14
12
10
8
6
4
2
0
1998
2000
2002
2004
2006
2008
2010
2012

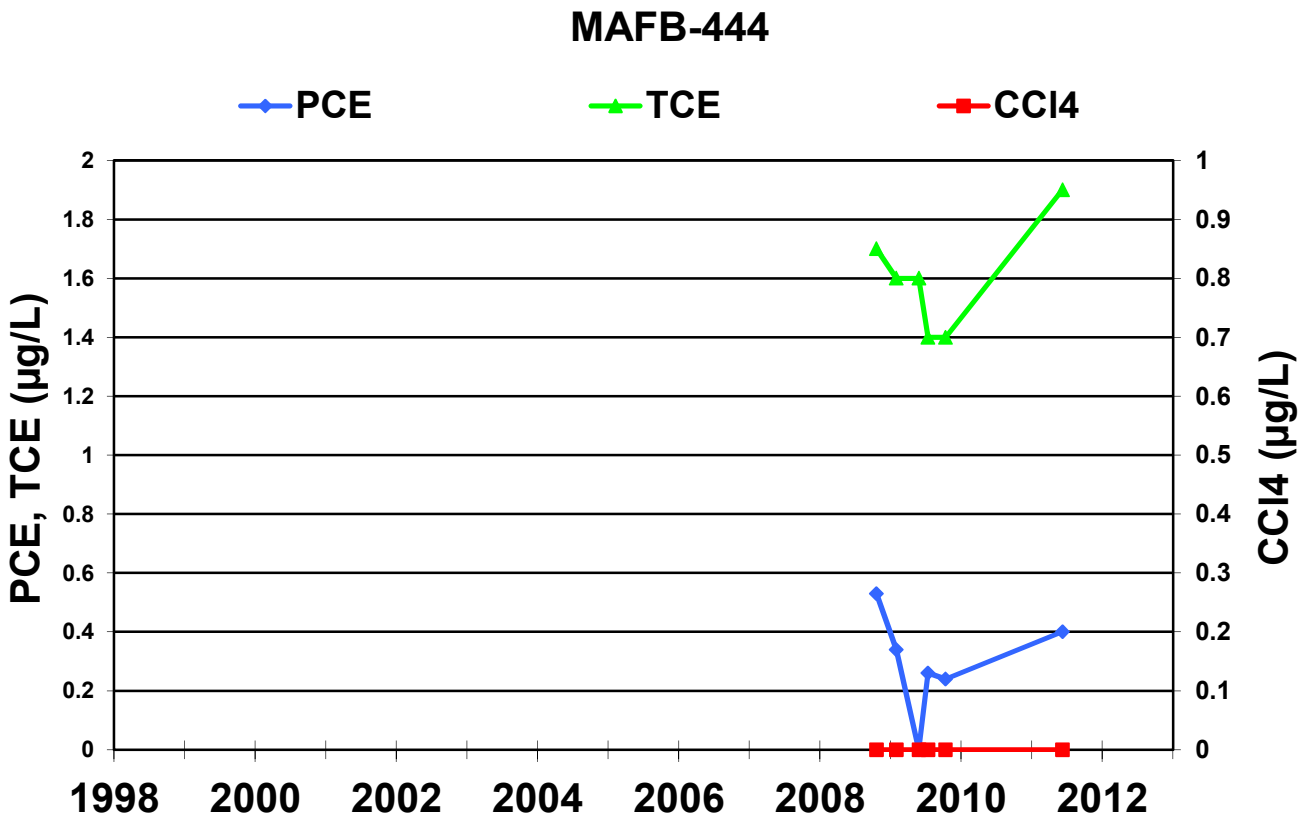

MAFB-440
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
1998
2000
2002
2004
2006
2008
2010
2012

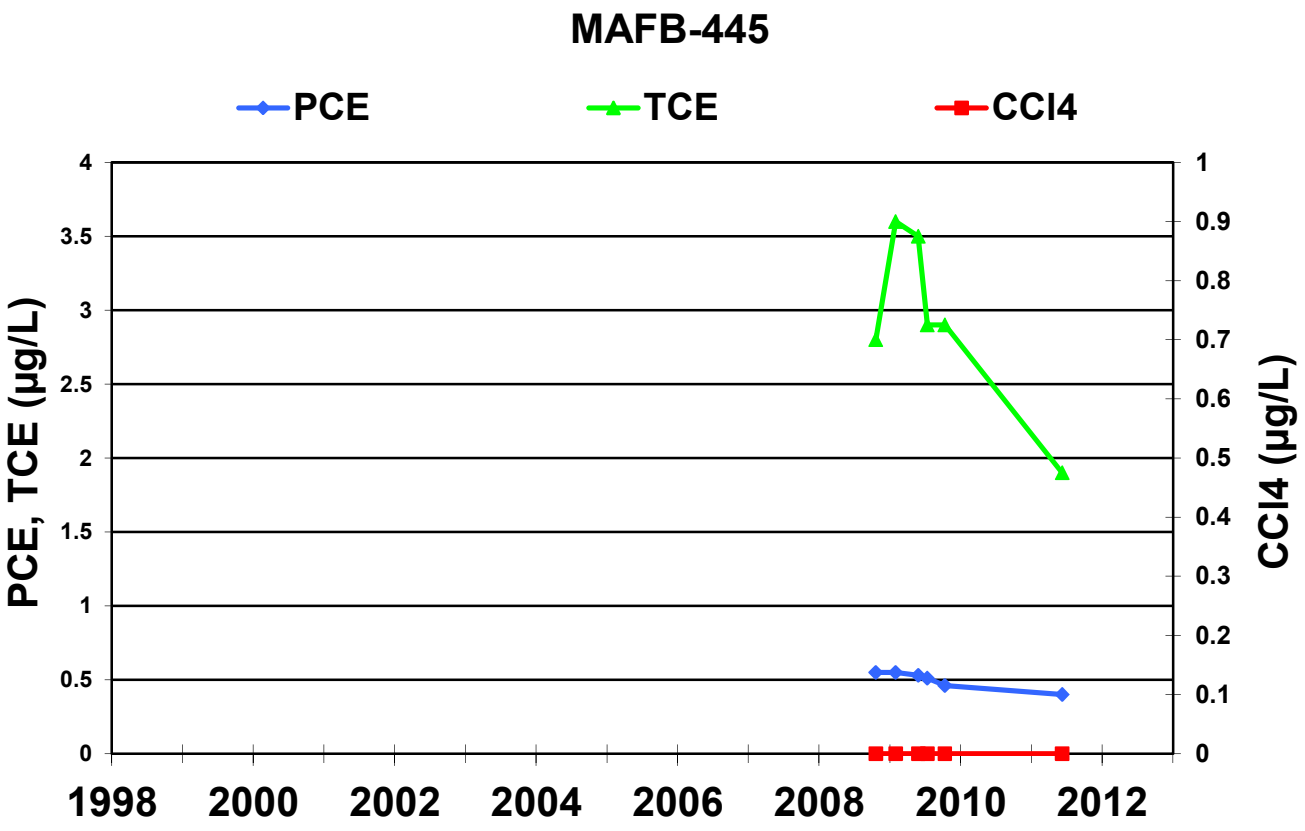

MAFB-440P
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
1998
2000
2002
2004
2006
2008
2010
2012

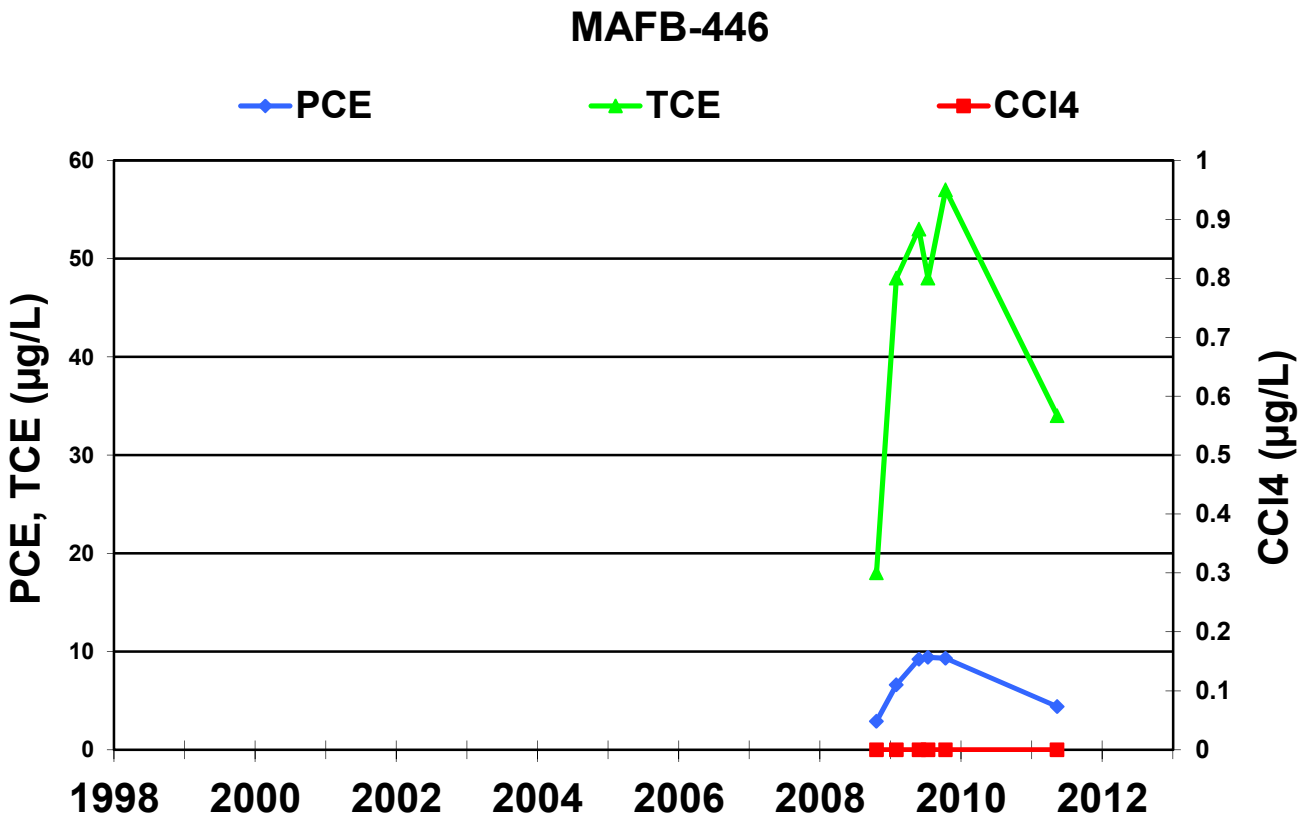

MAFB-441
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

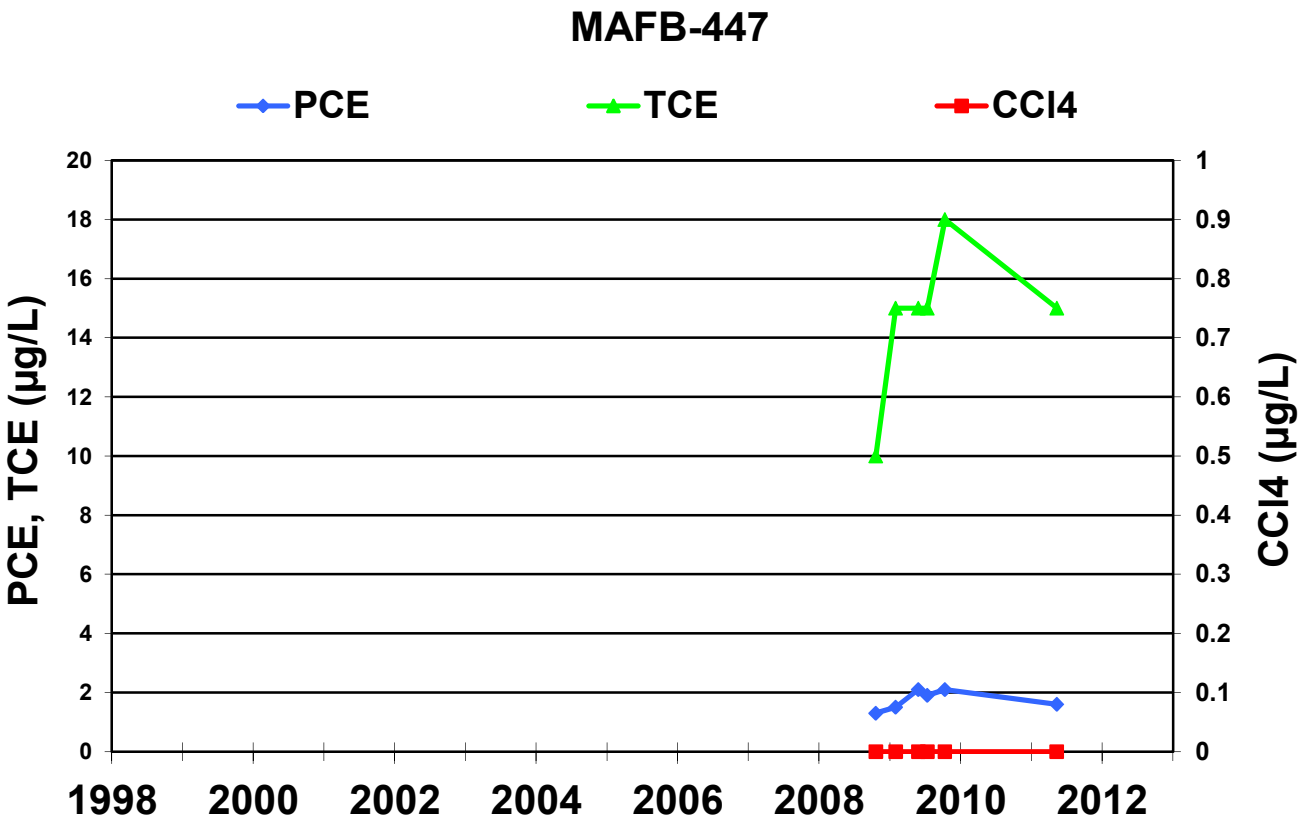

MAFB-442
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

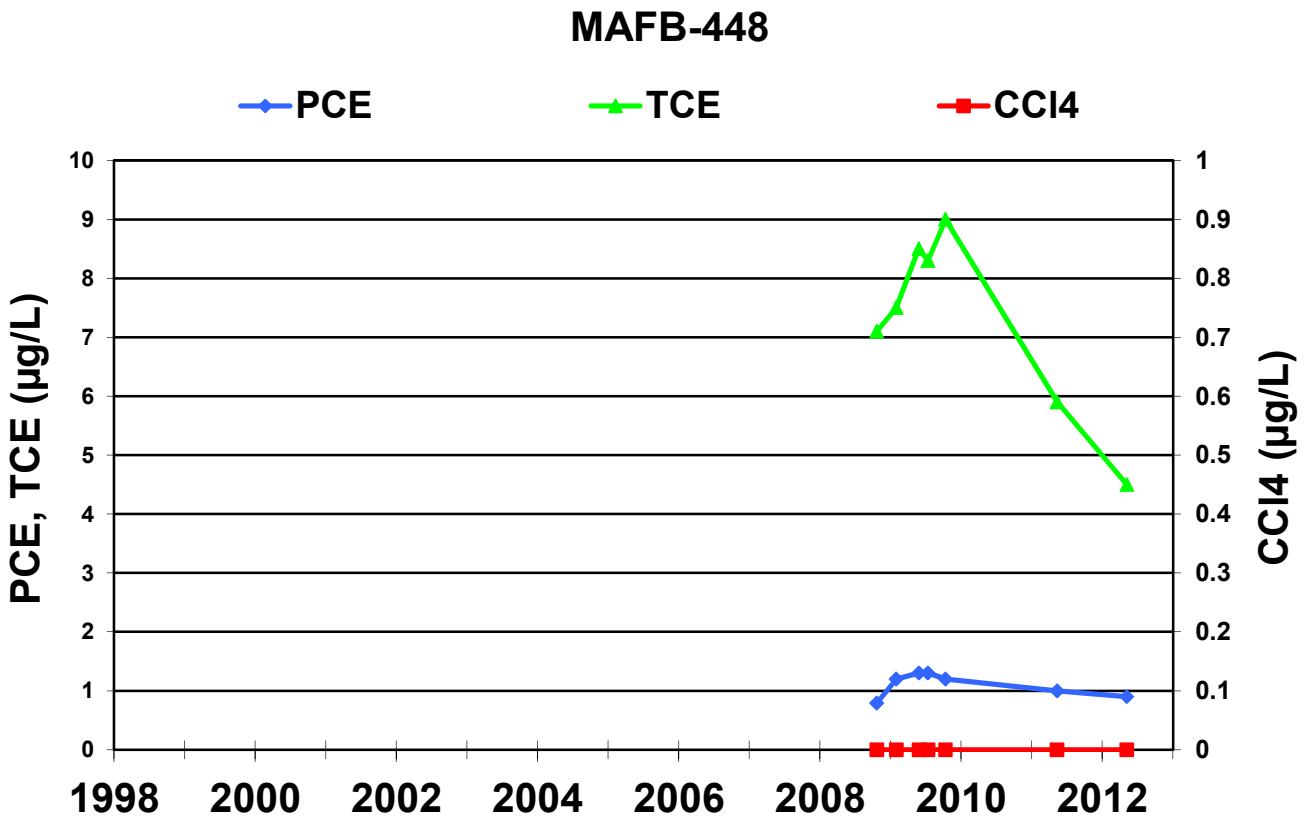

MAFB-443
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

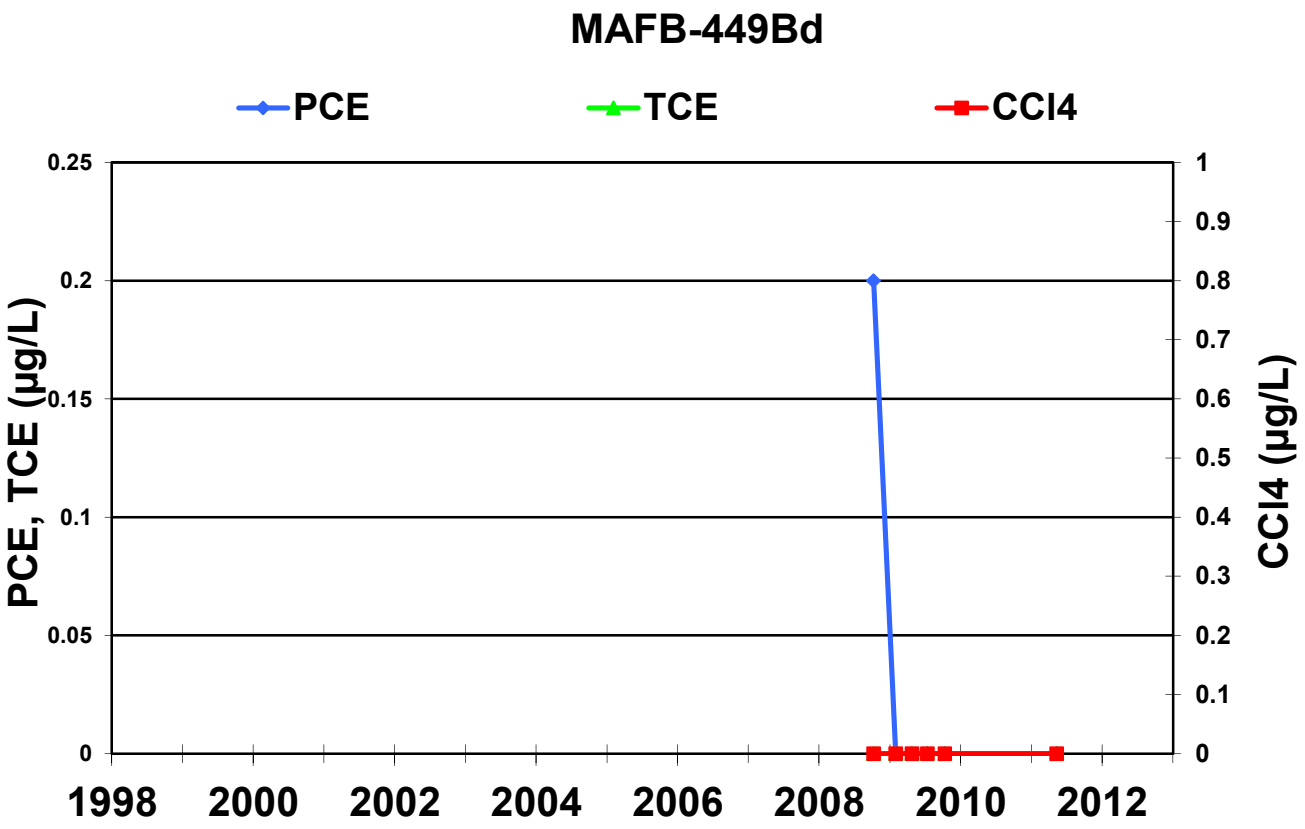

MAFB-444
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

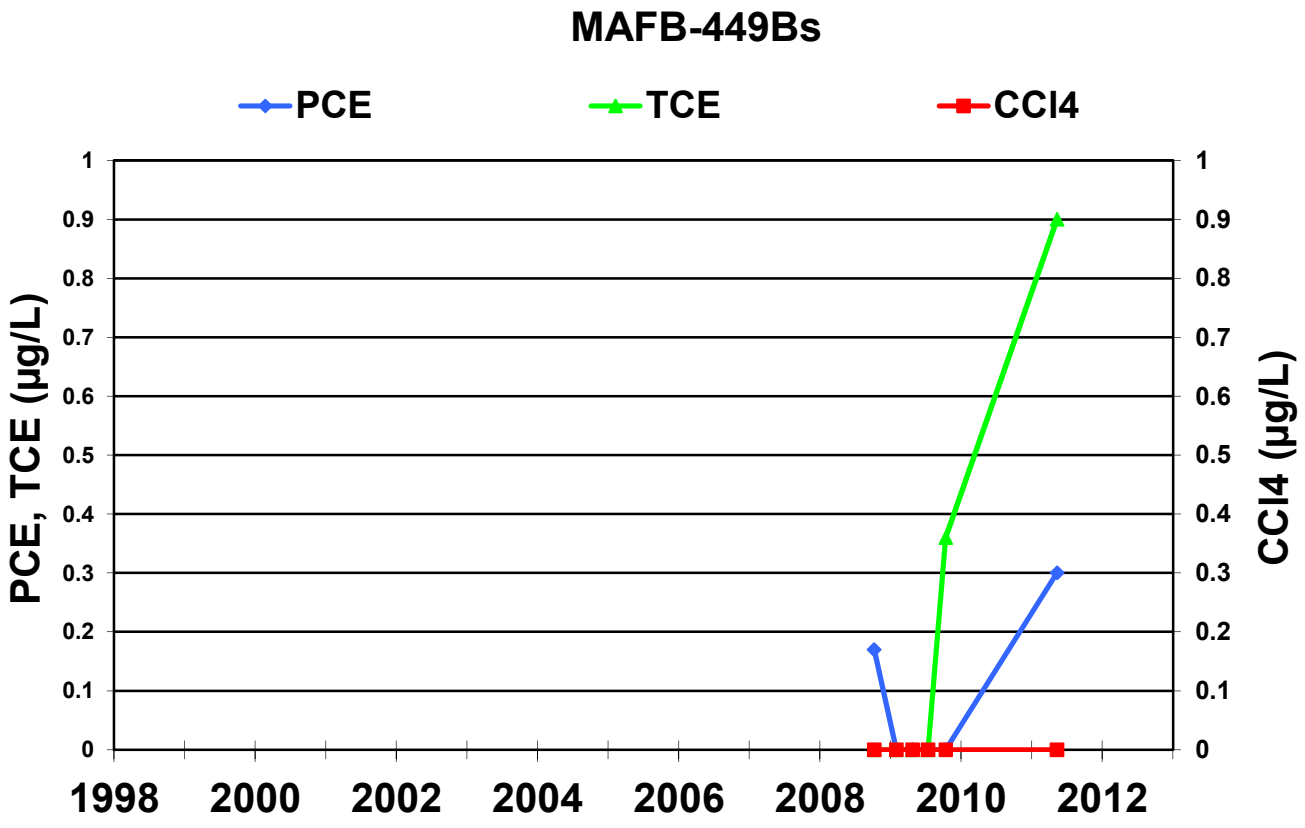

MAFB-445
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

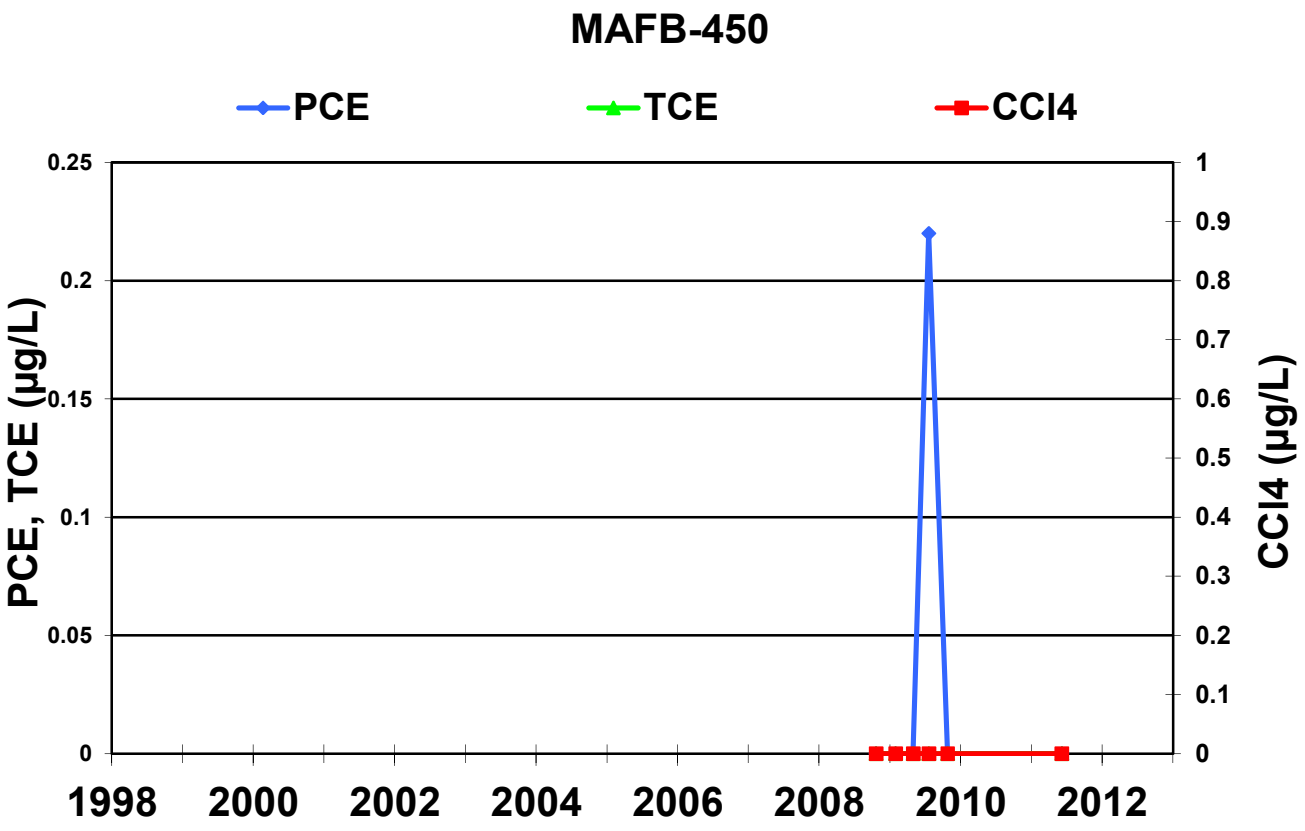

MAFB-446
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

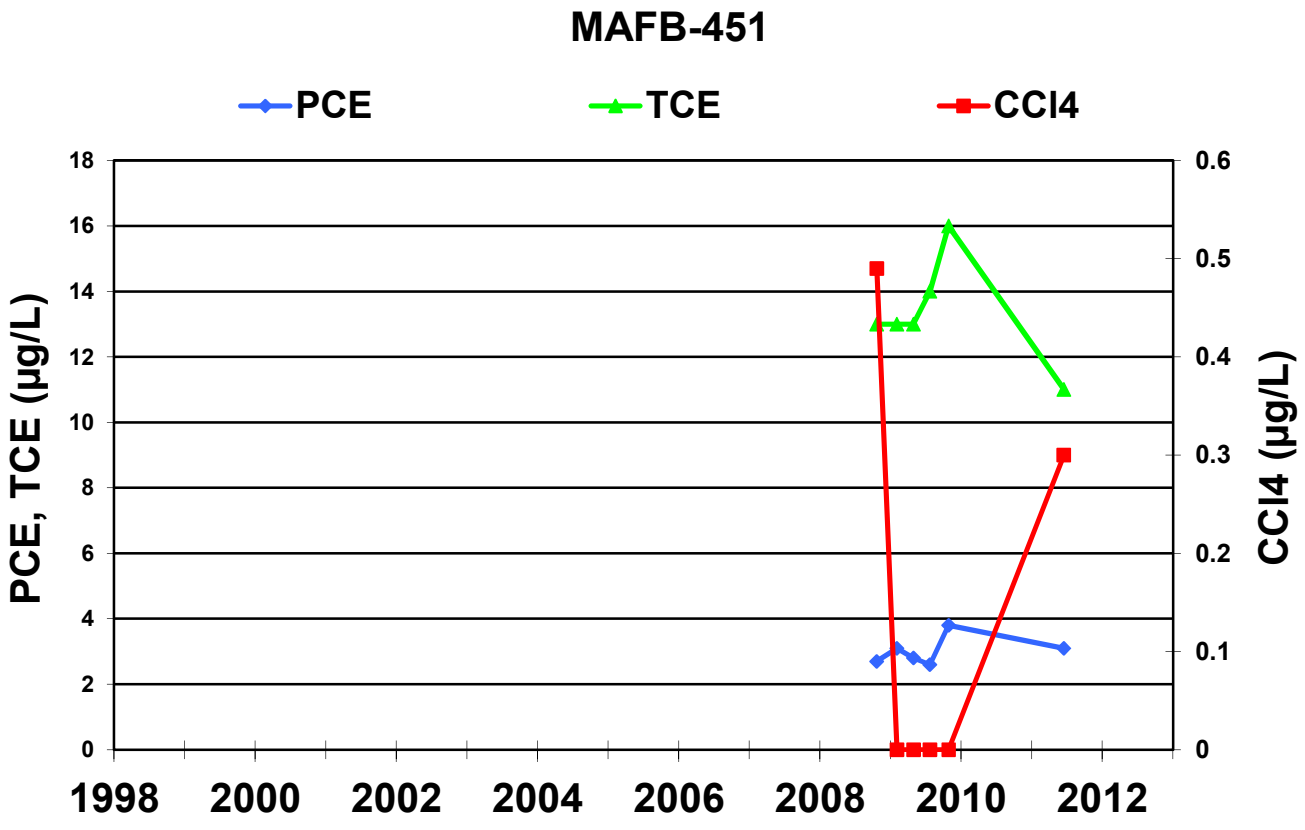

MAFB-447
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
20
18
16
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

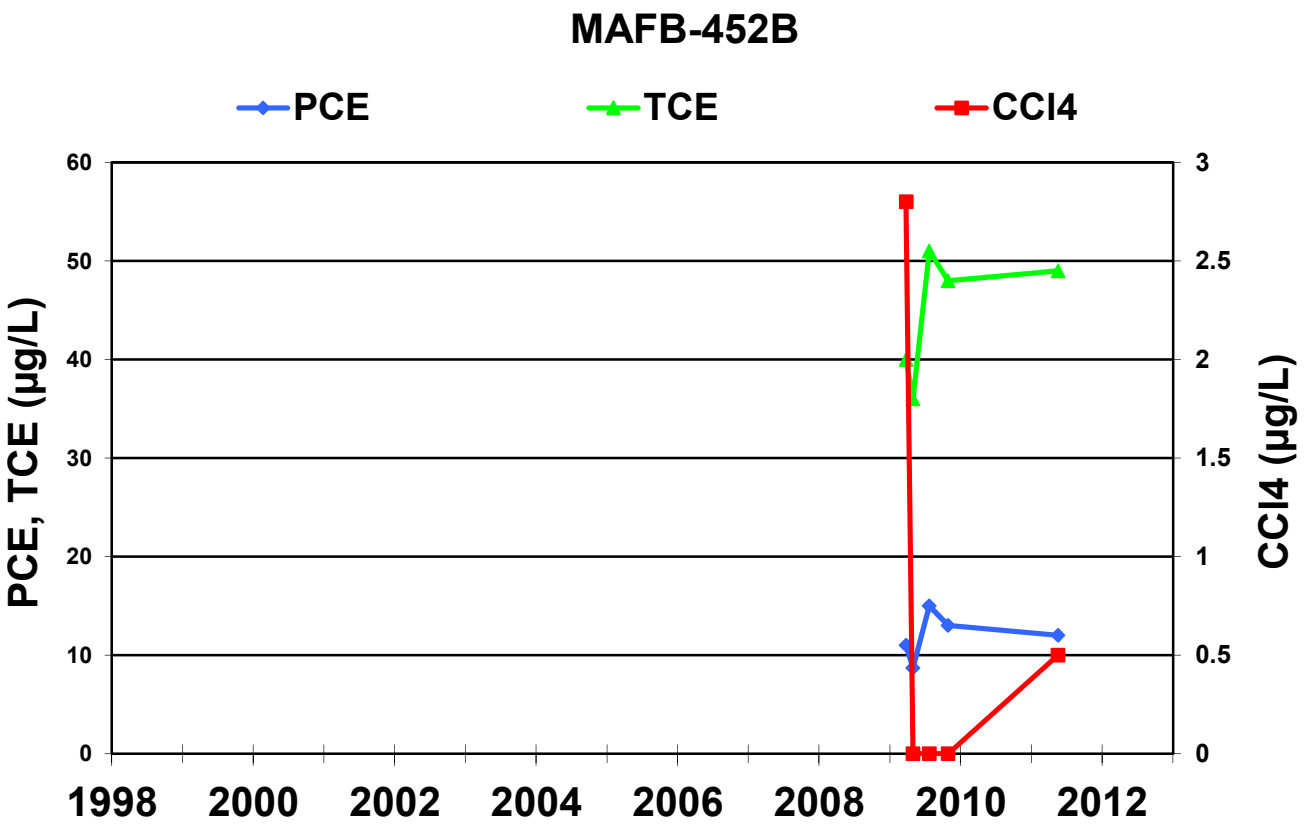

MAFB-448
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
10
9
8
7
6
5
4
3
2
1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

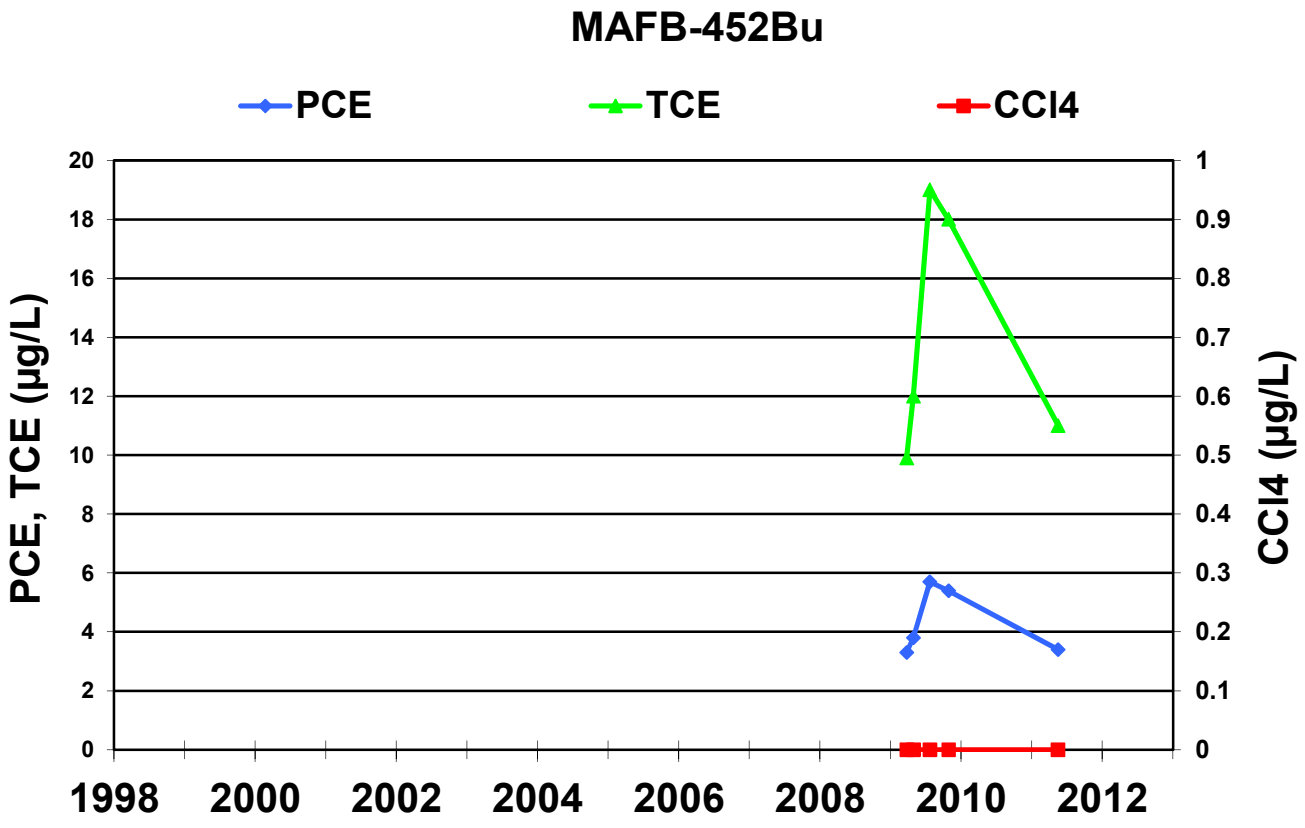

MAFB-449Bd
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

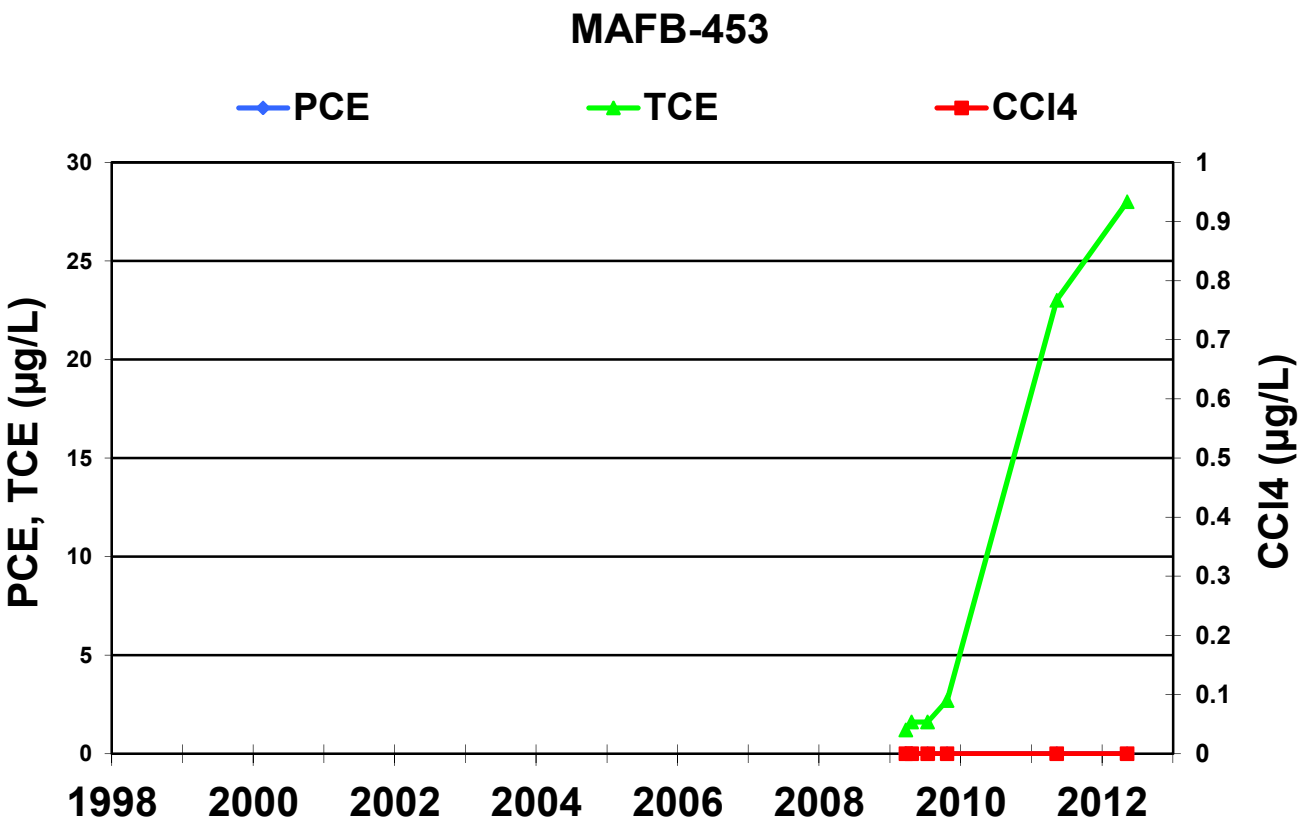

MAFB-449Bs
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

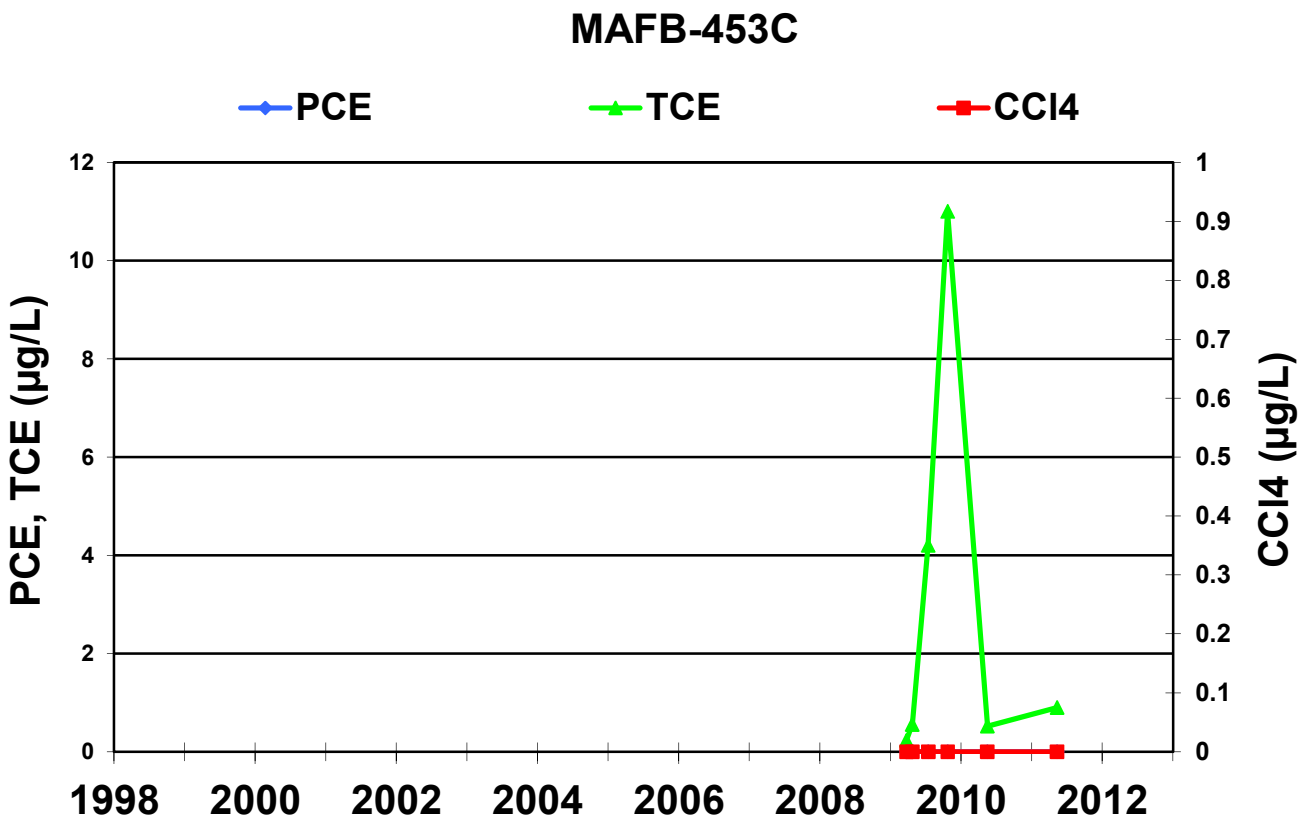

MAFB-450
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

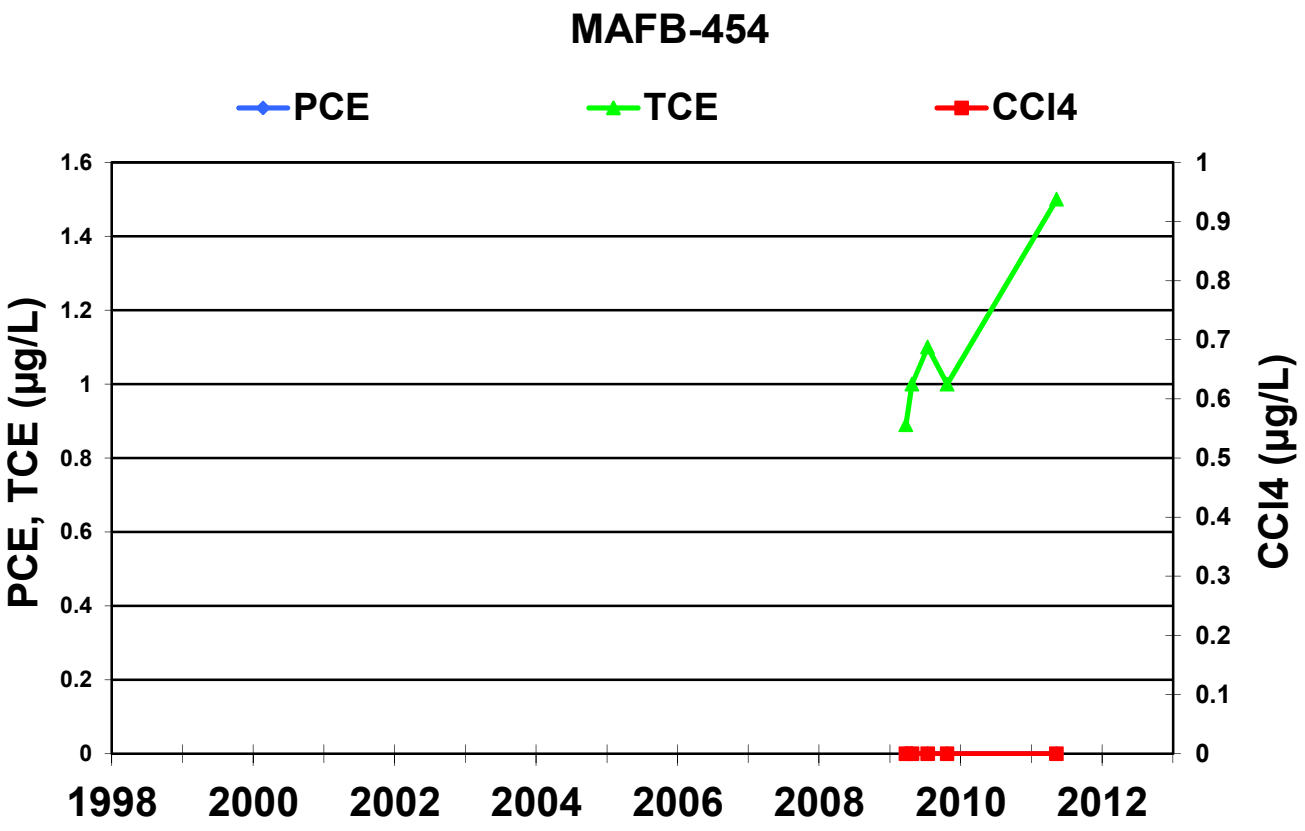

MAFB-451
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
18
16
14
12
10
8
6
4
2
0
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

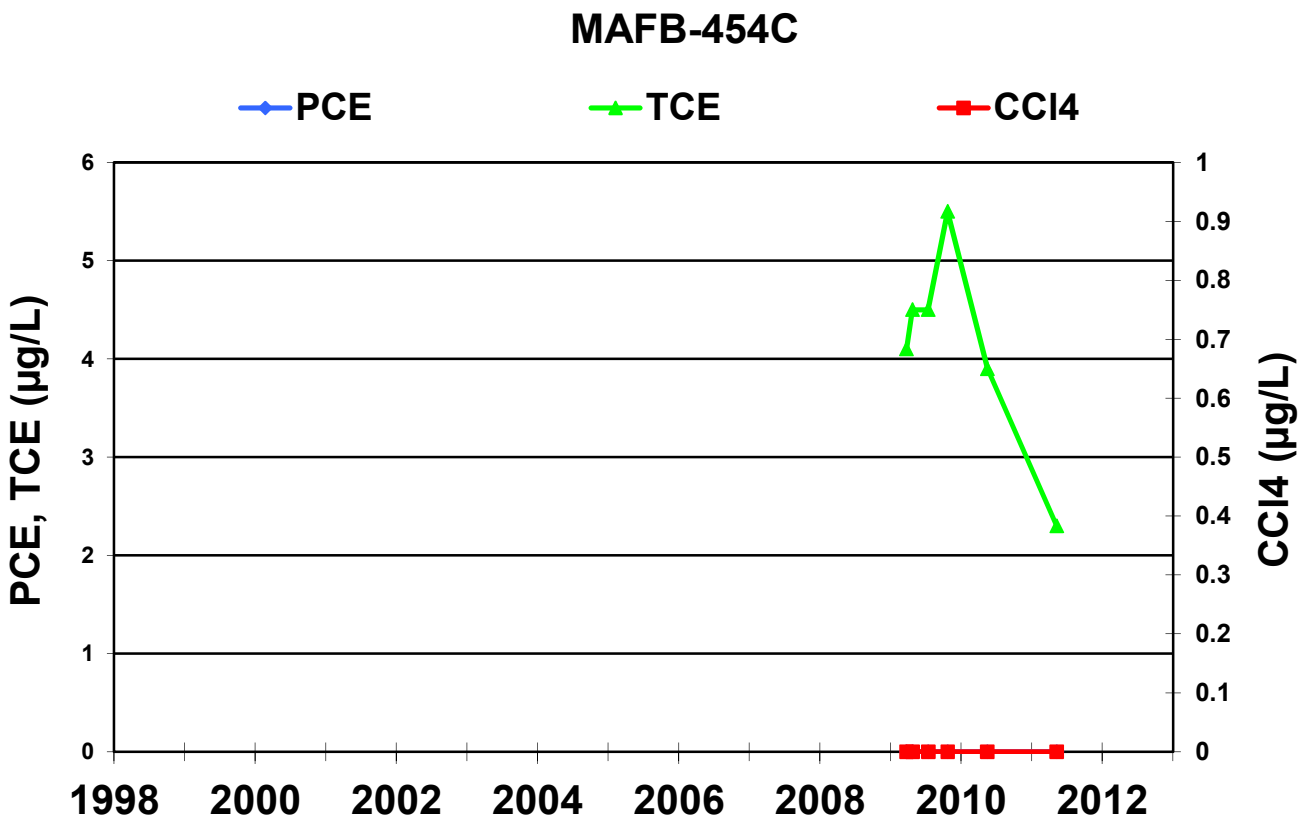

MAFB-452B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
60
50
40
30
20
10
0
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

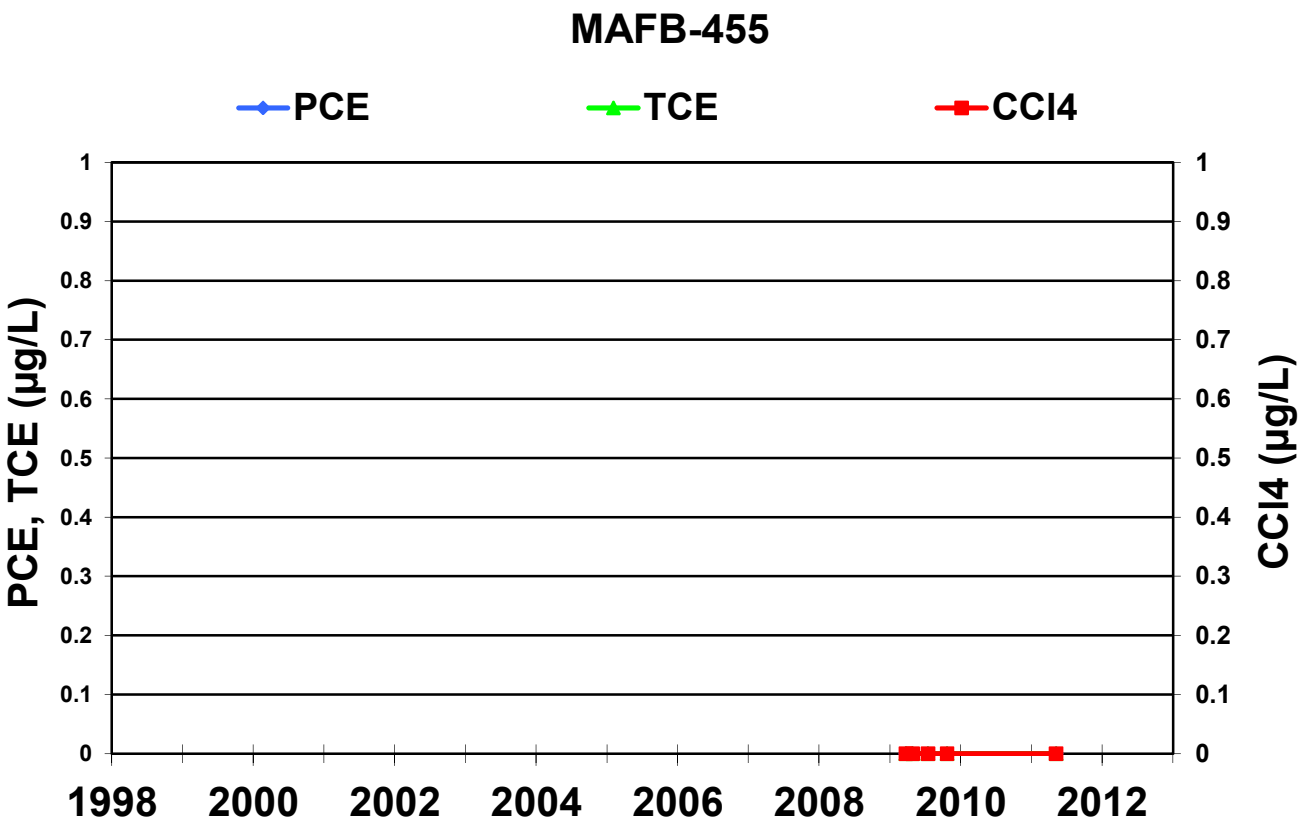

MAFB-452Bu
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
20
18
16
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

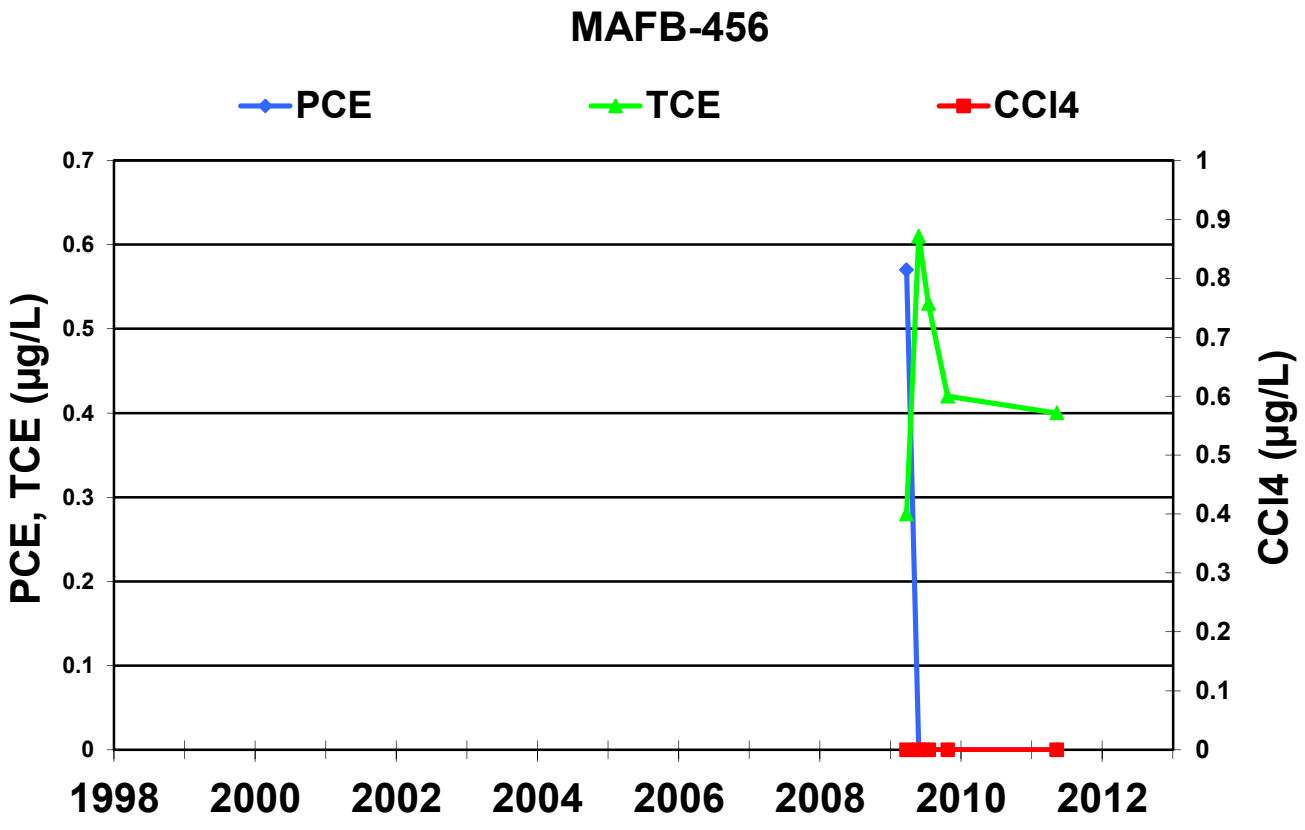

MAFB-453
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
30
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

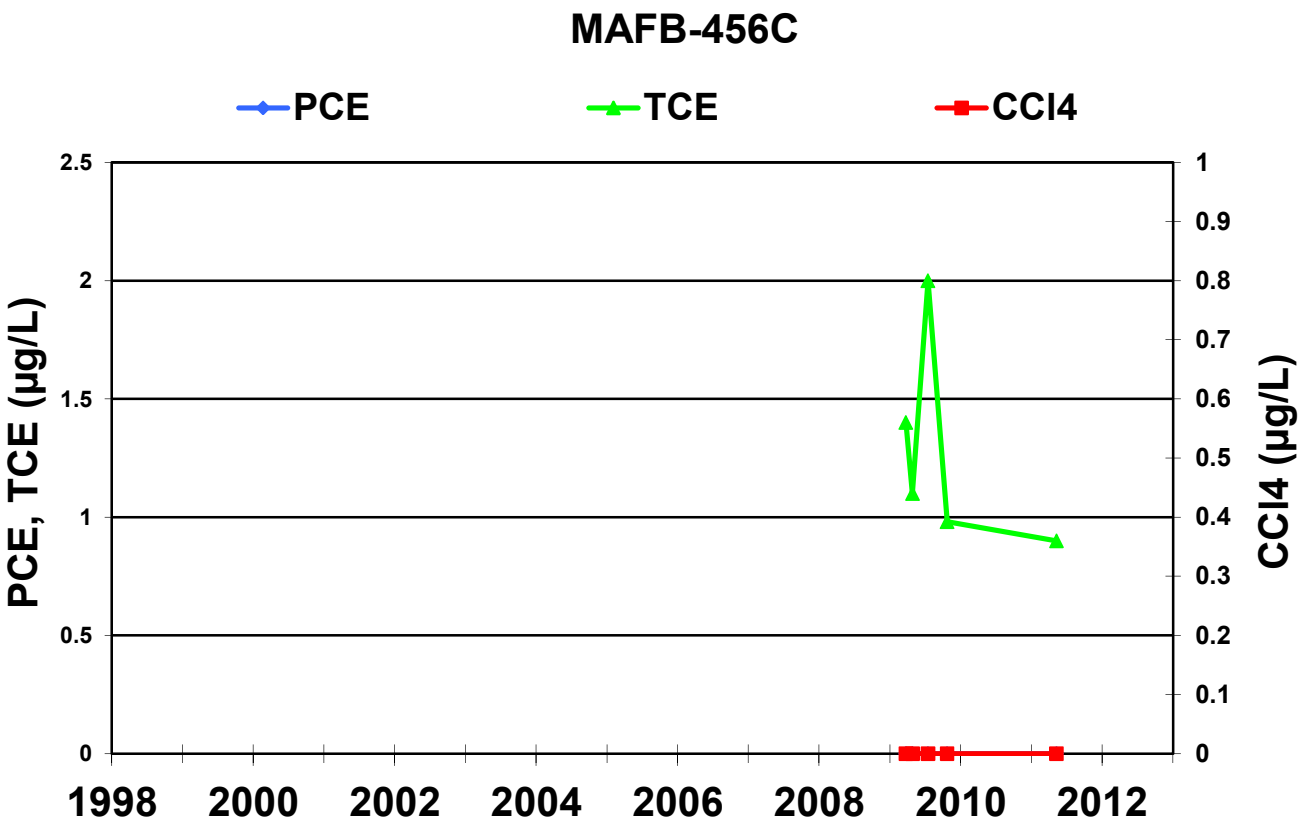

MAFB-453C
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

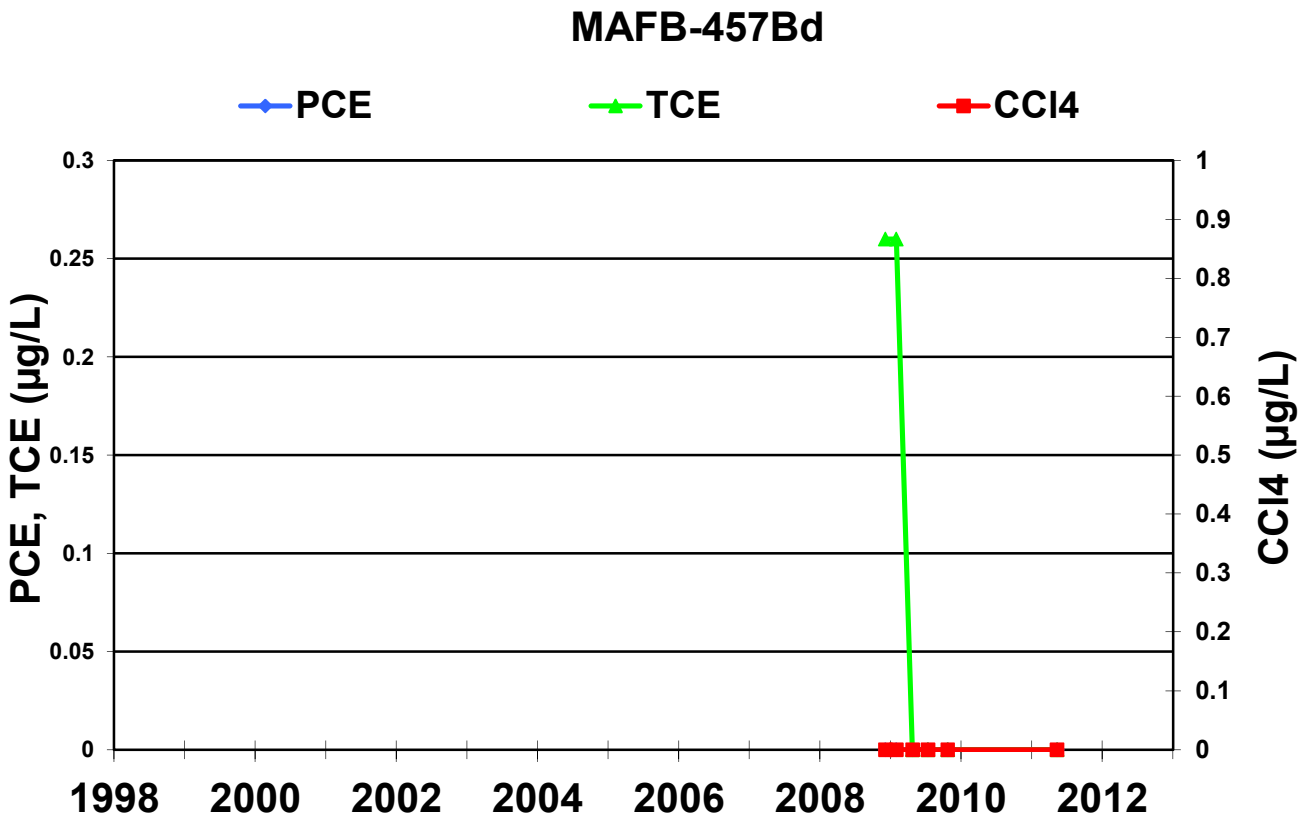

MAFB-454
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

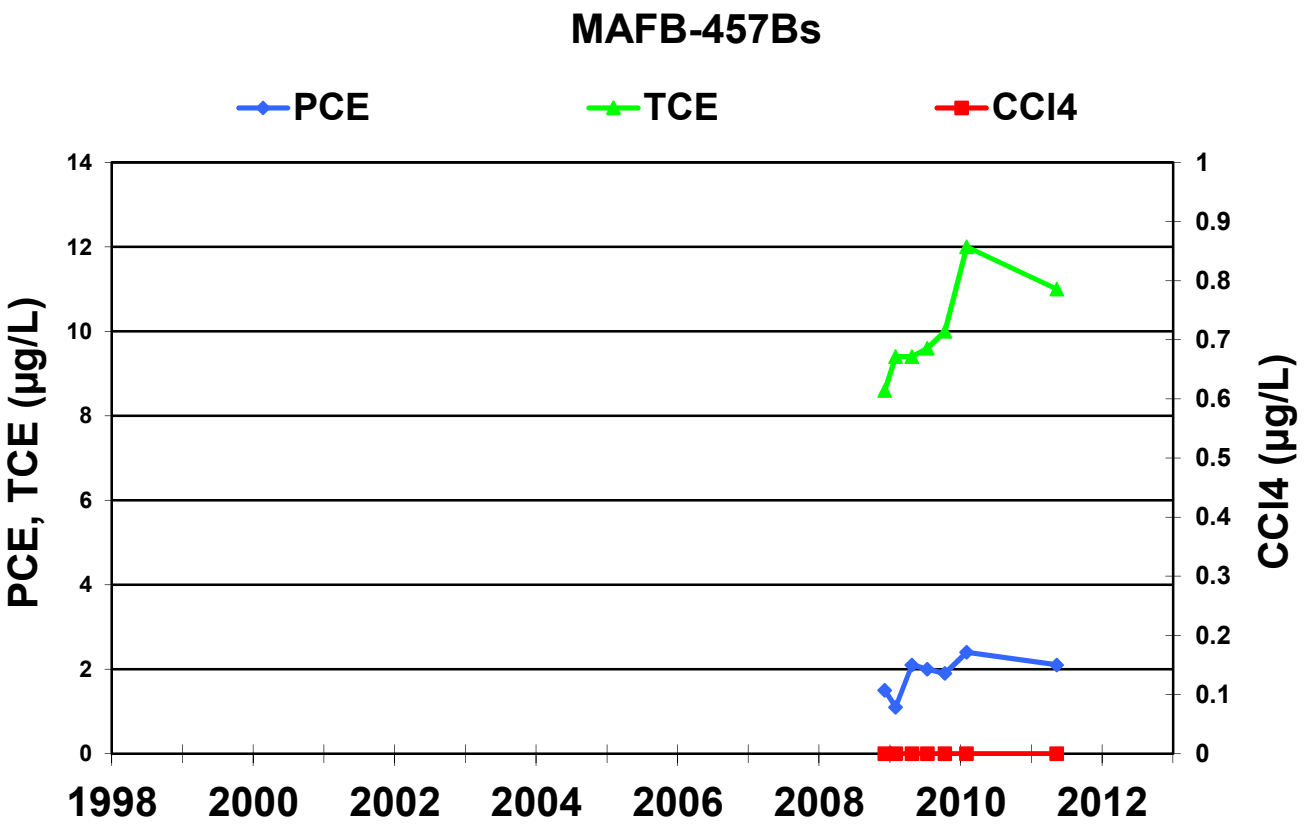

MAFB-454C
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
6
5
4
3
2
1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

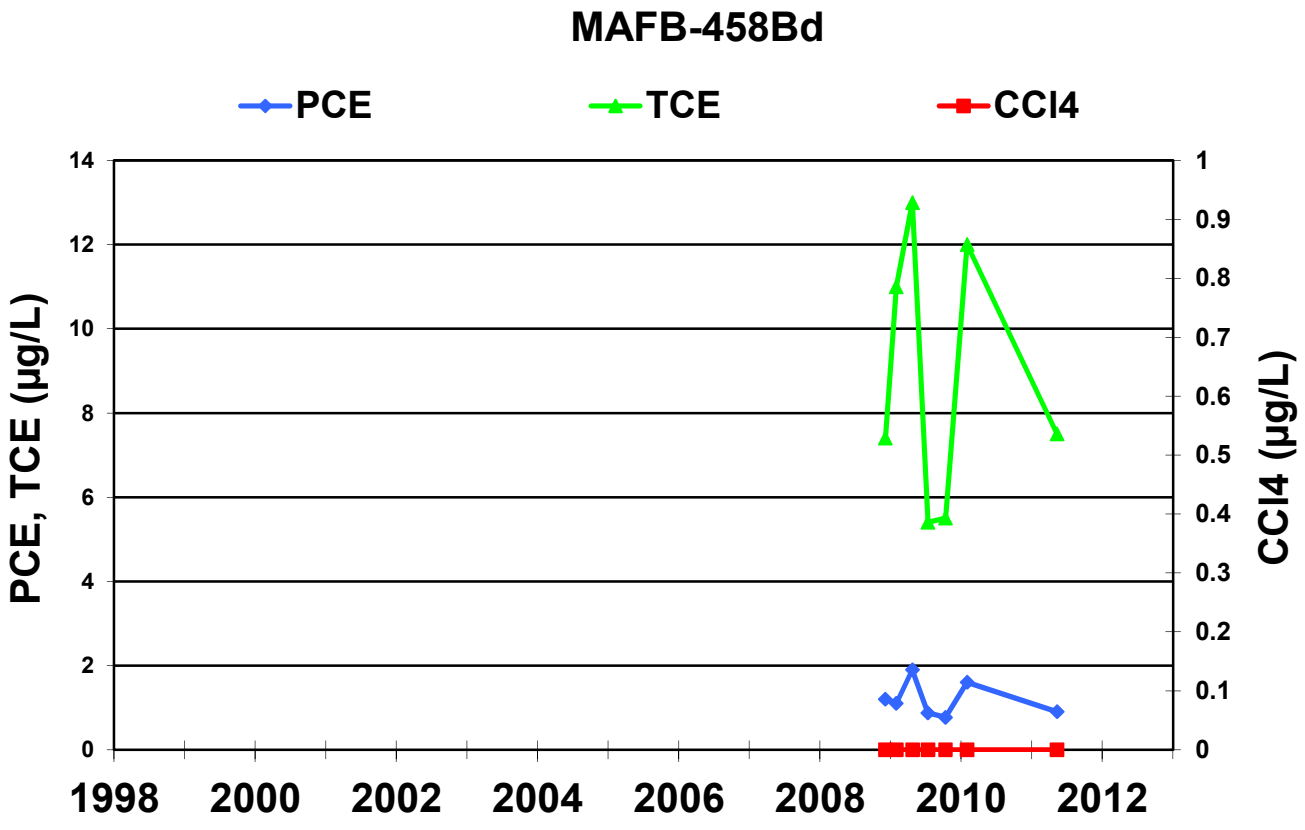

MAFB-455
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

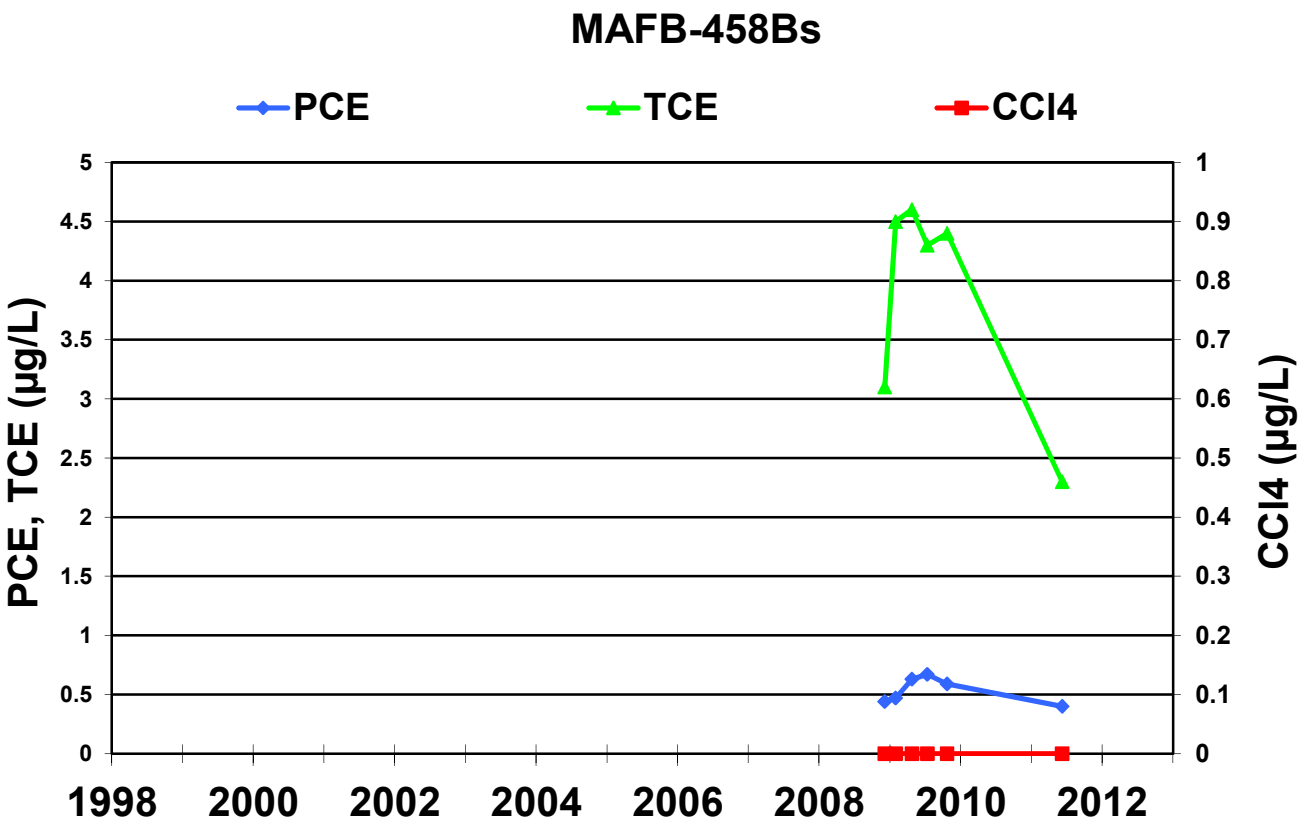

MAFB-456
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

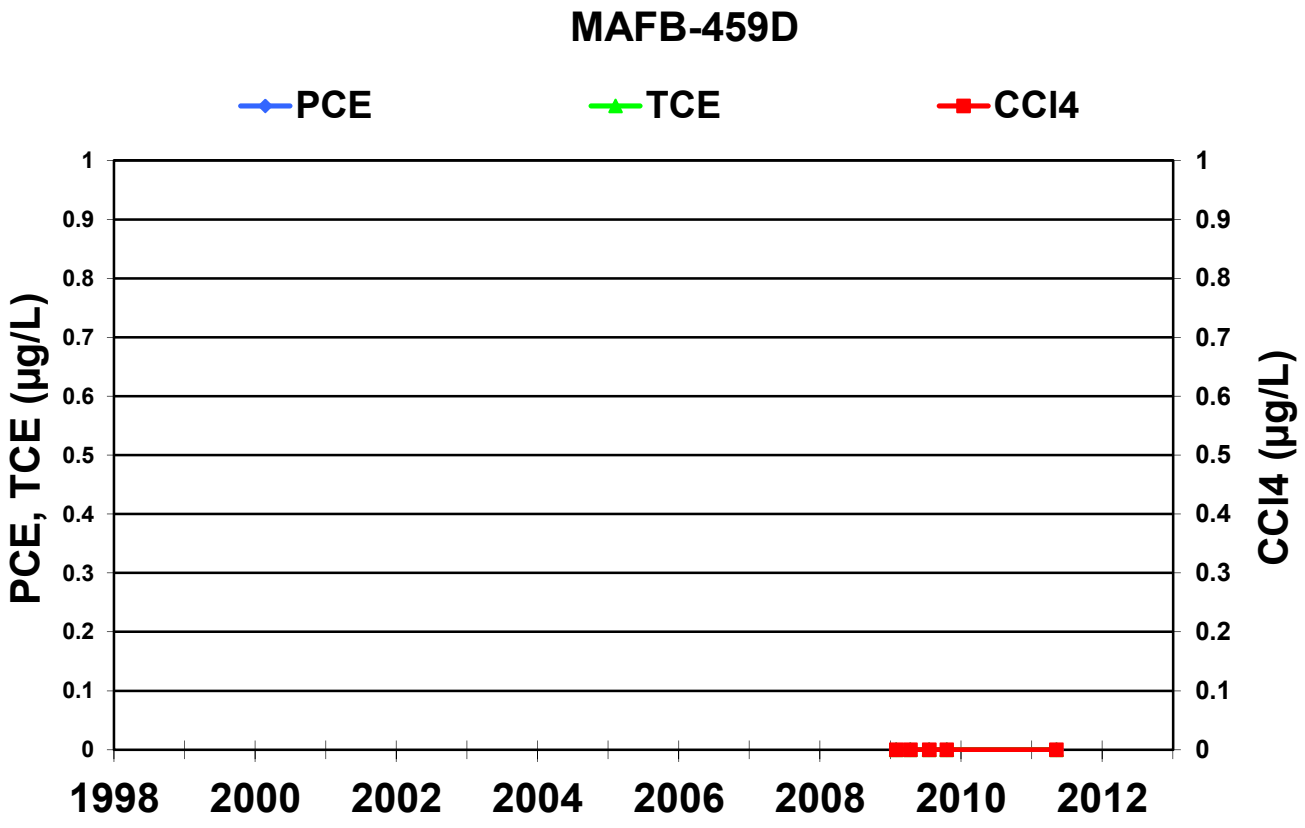

MAFB-456C
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

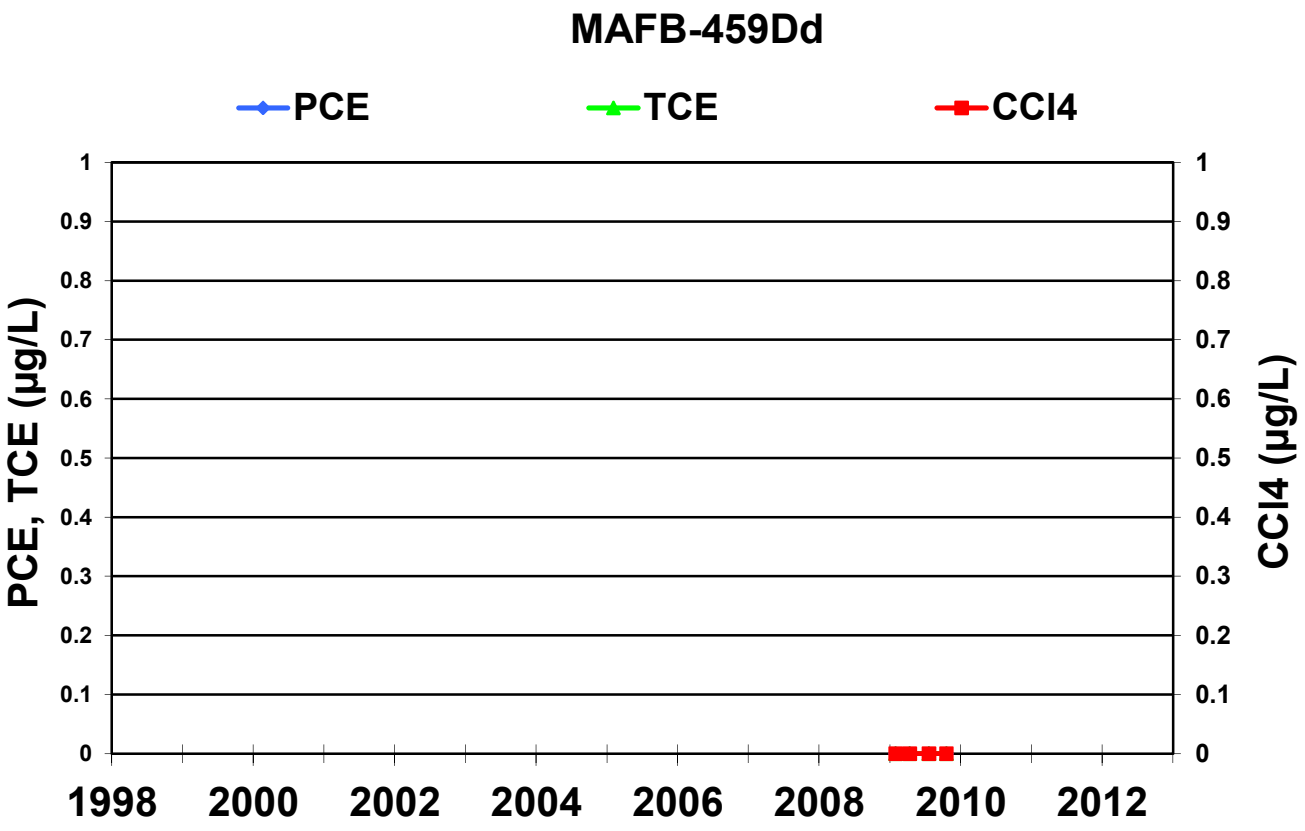

MAFB-457Bd
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

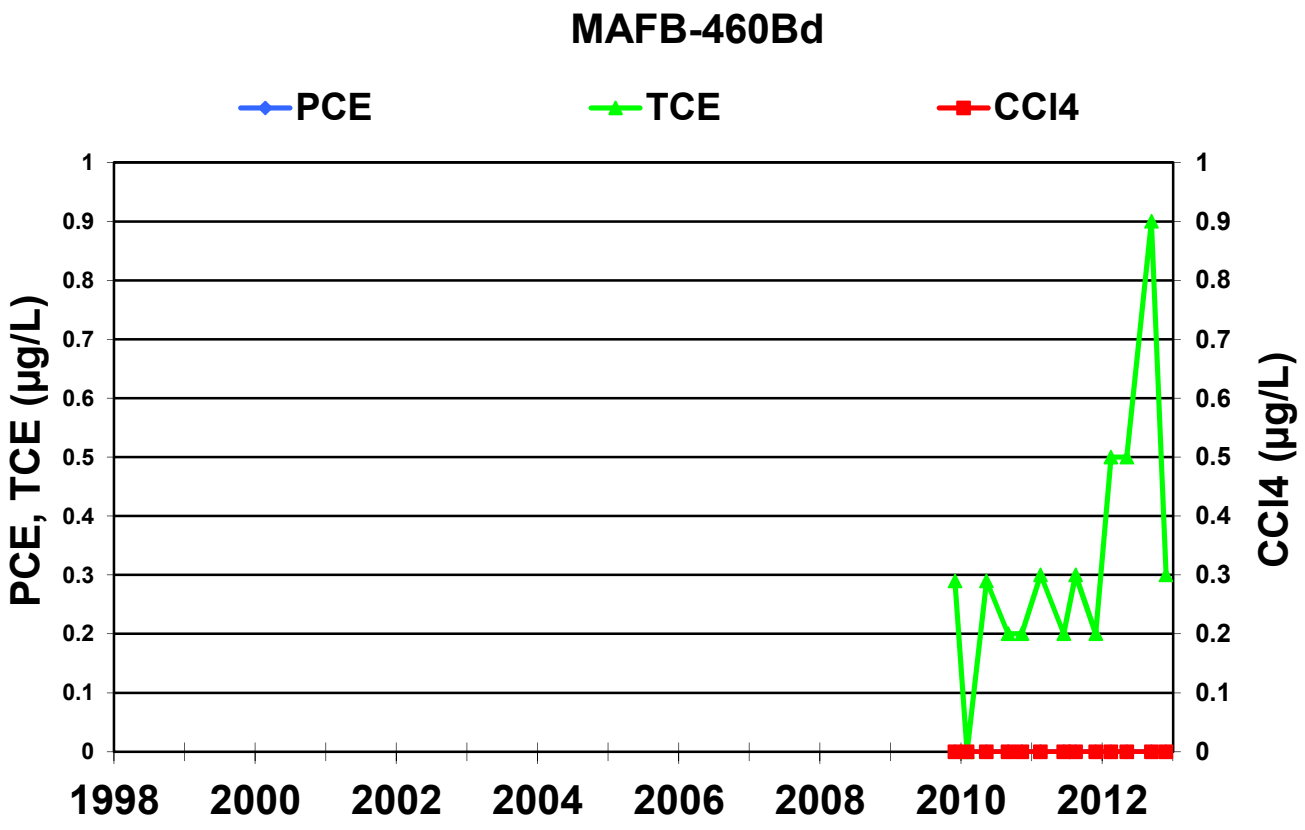

MAFB-457Bs
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

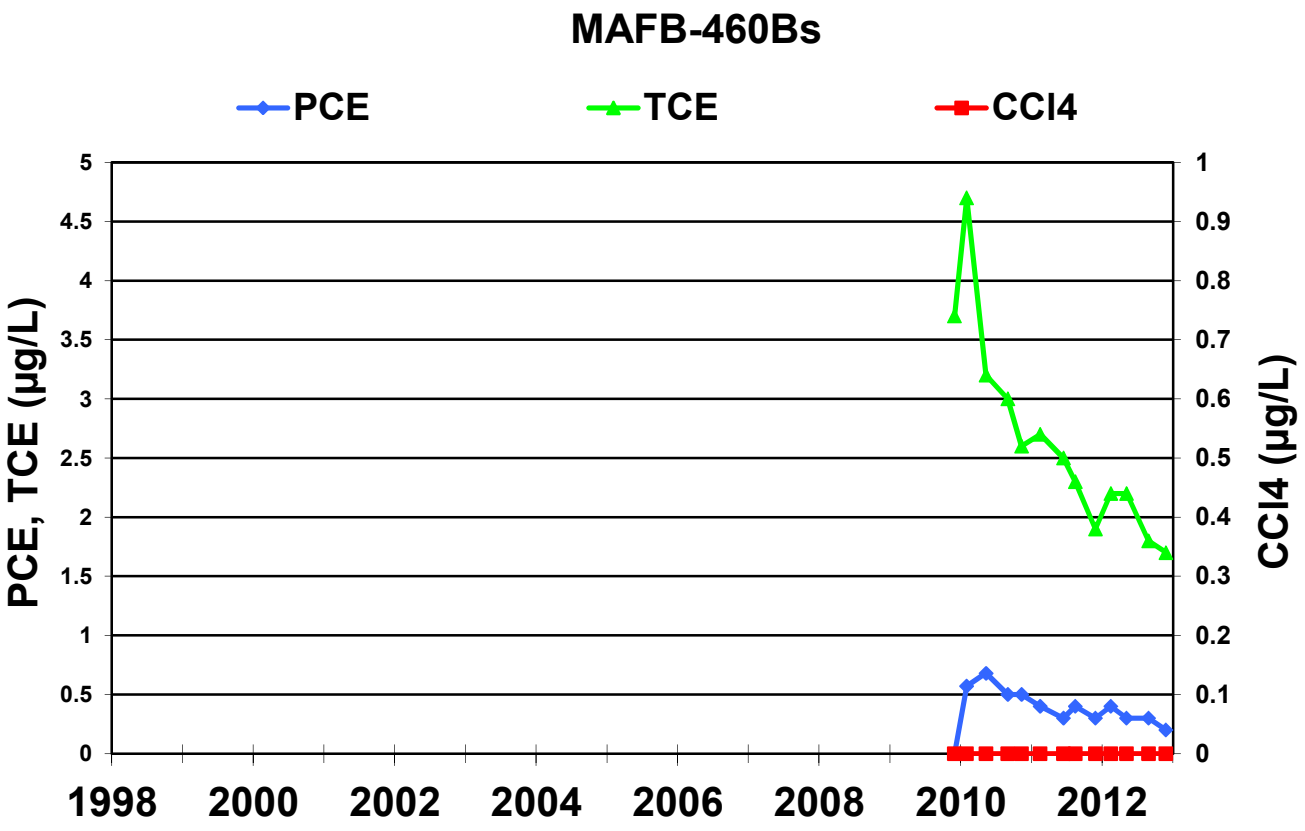

MAFB-458Bd
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

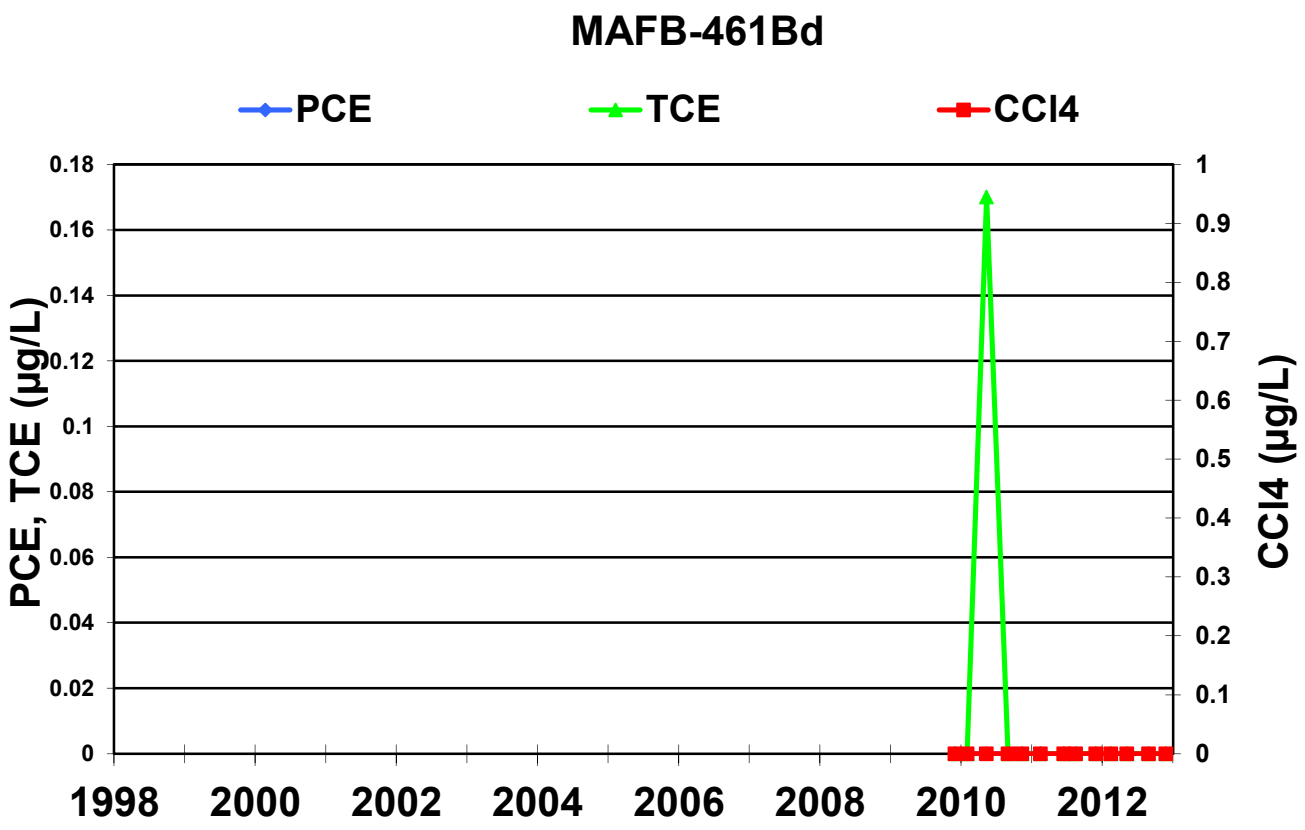

MAFB-458Bs
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

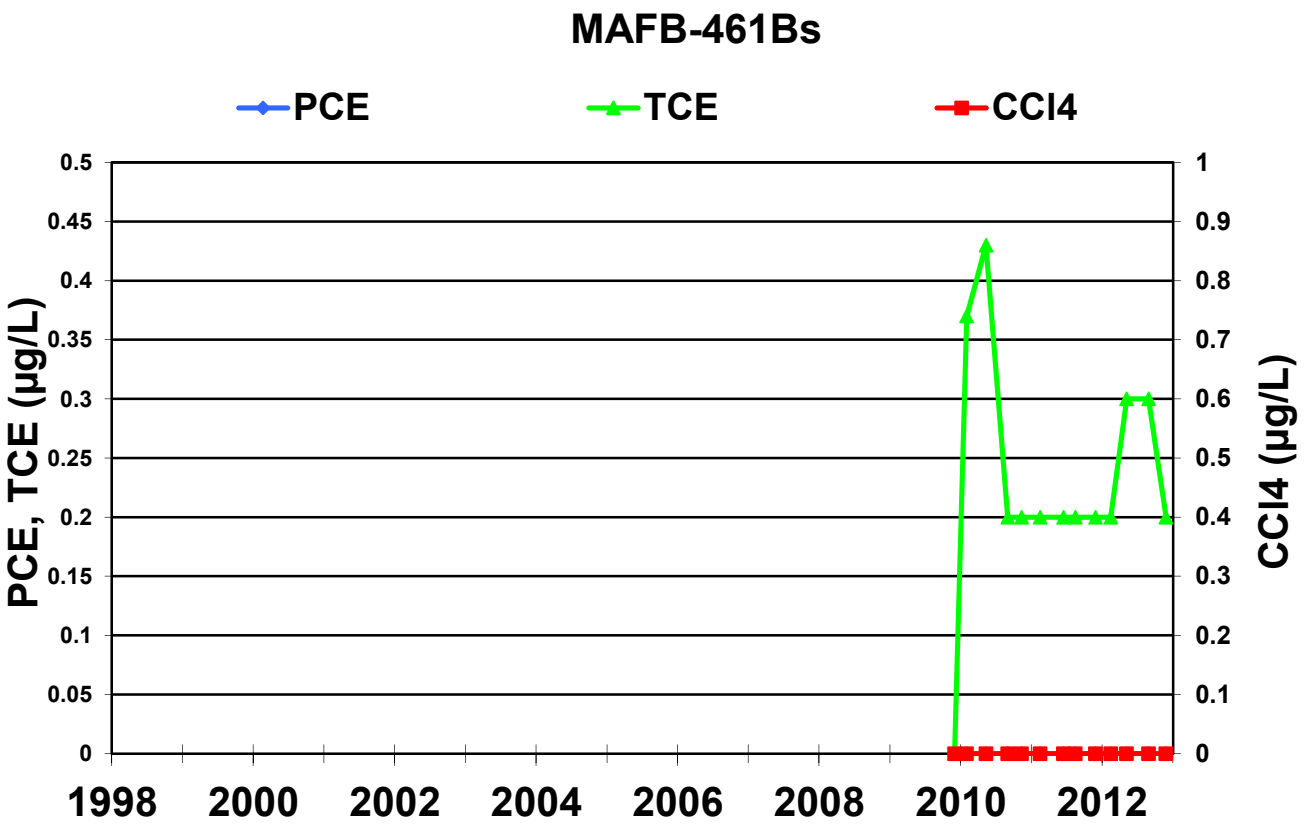

MAFB-459D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

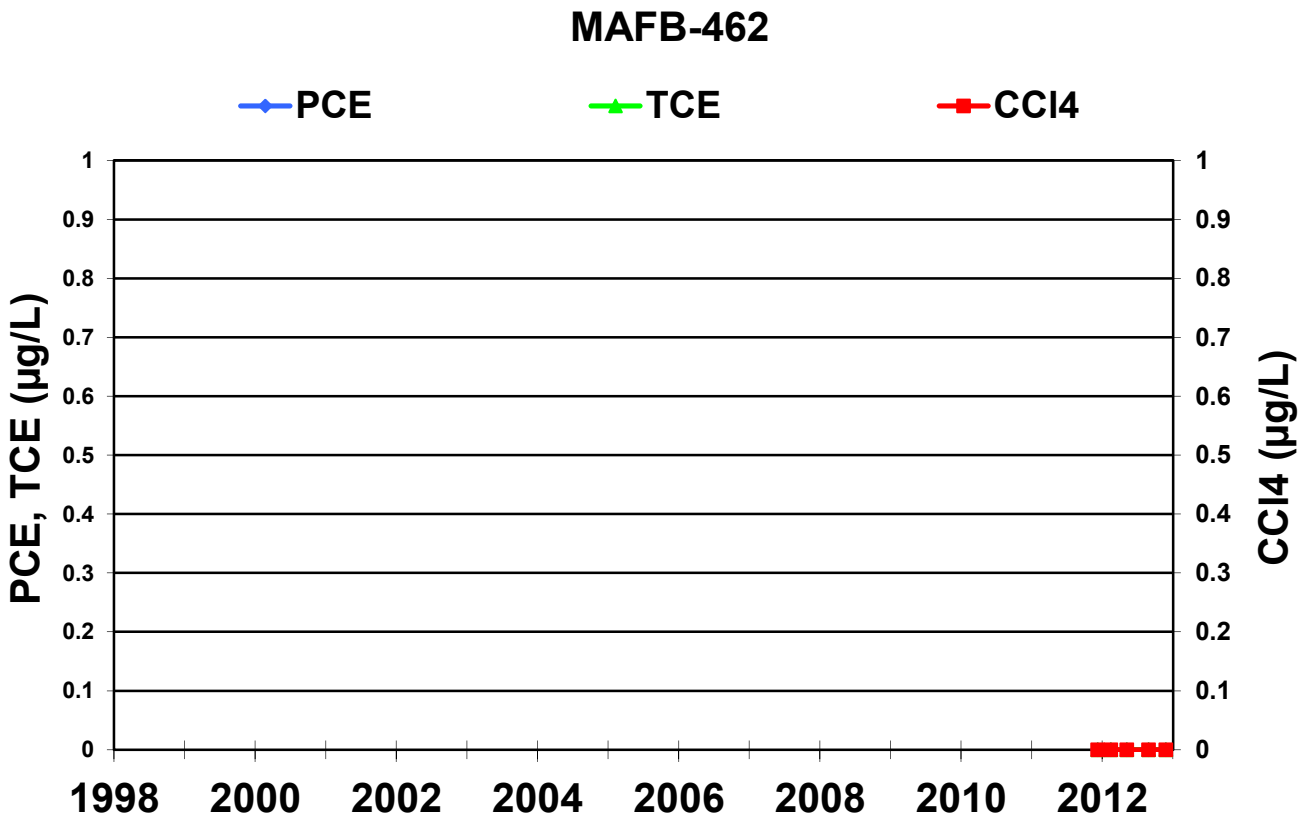

MAFB-459Dd
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

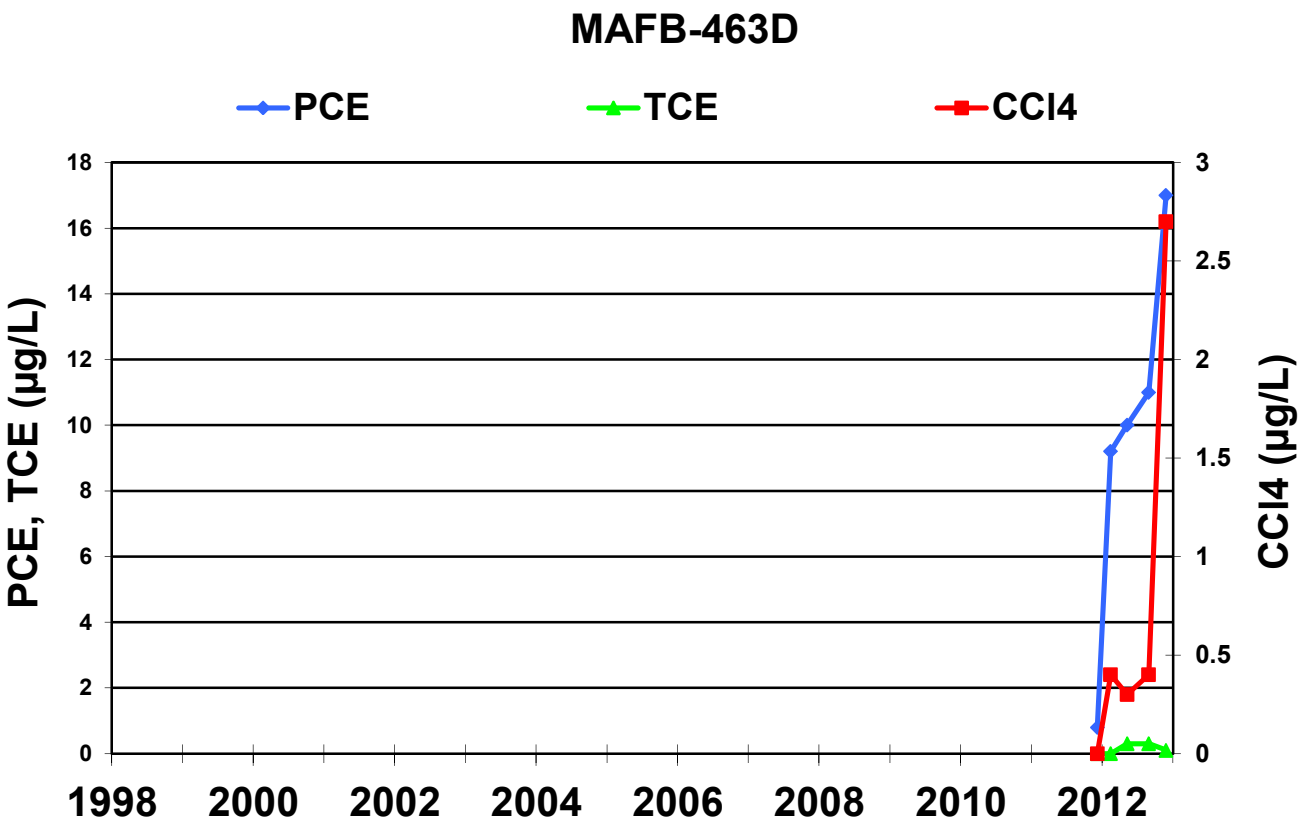

MAFB-460Bd
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

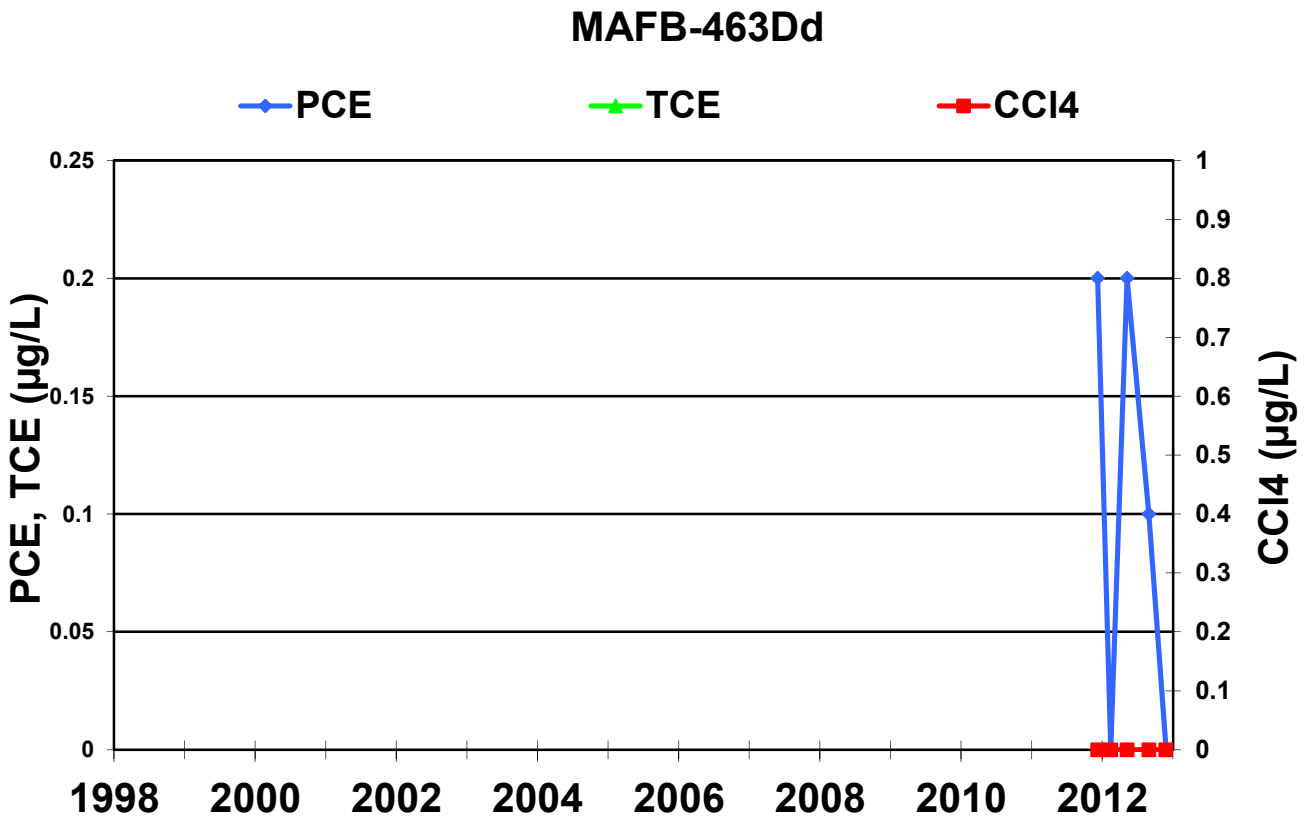

MAFB-460Bs
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

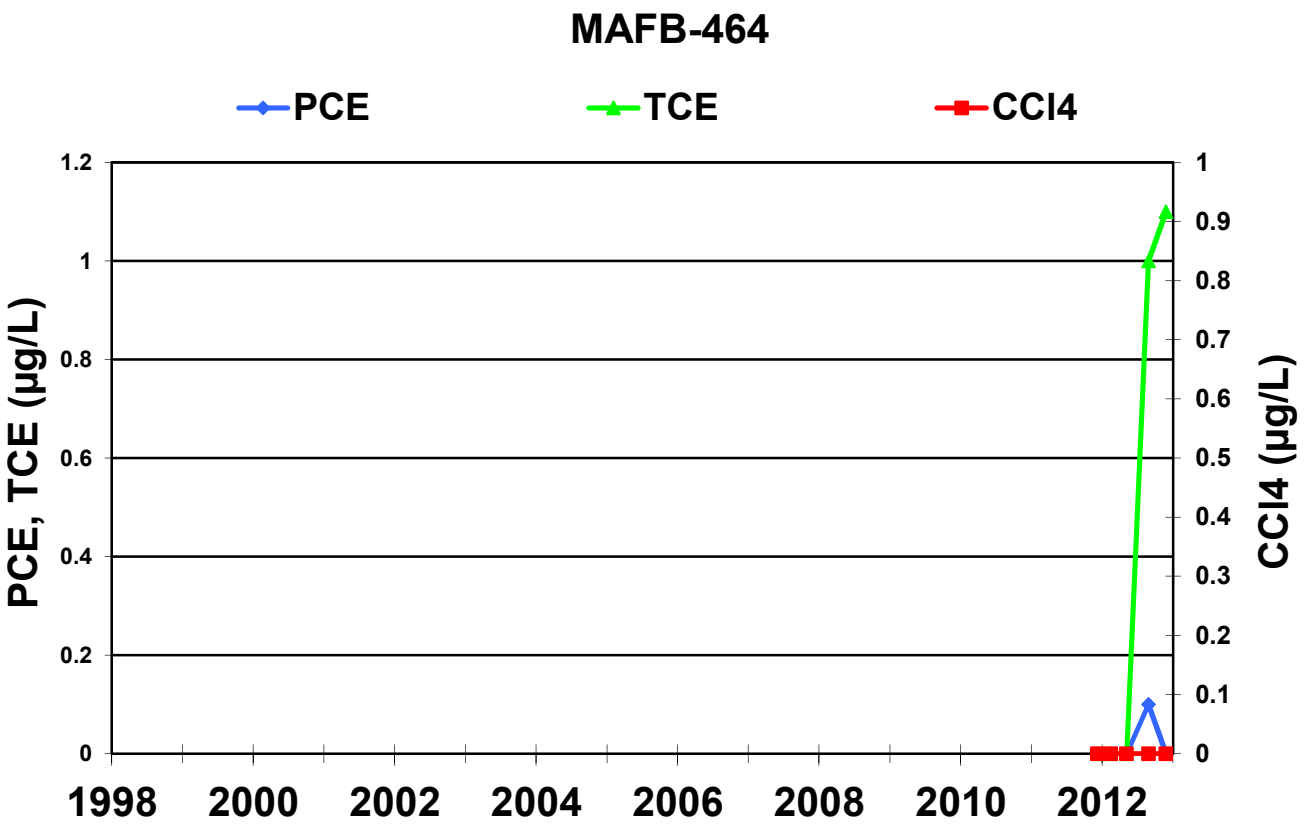

MAFB-461Bd
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

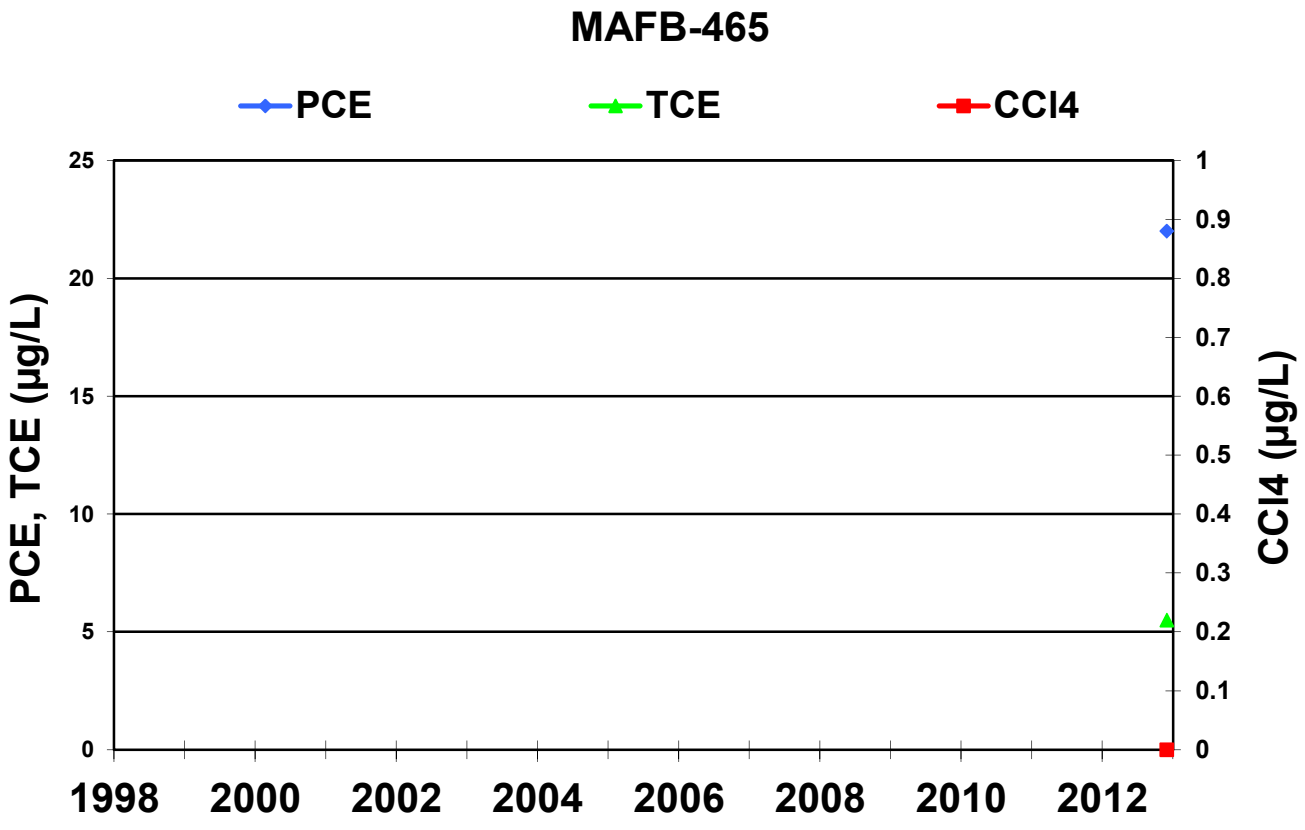

MAFB-461Bs
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

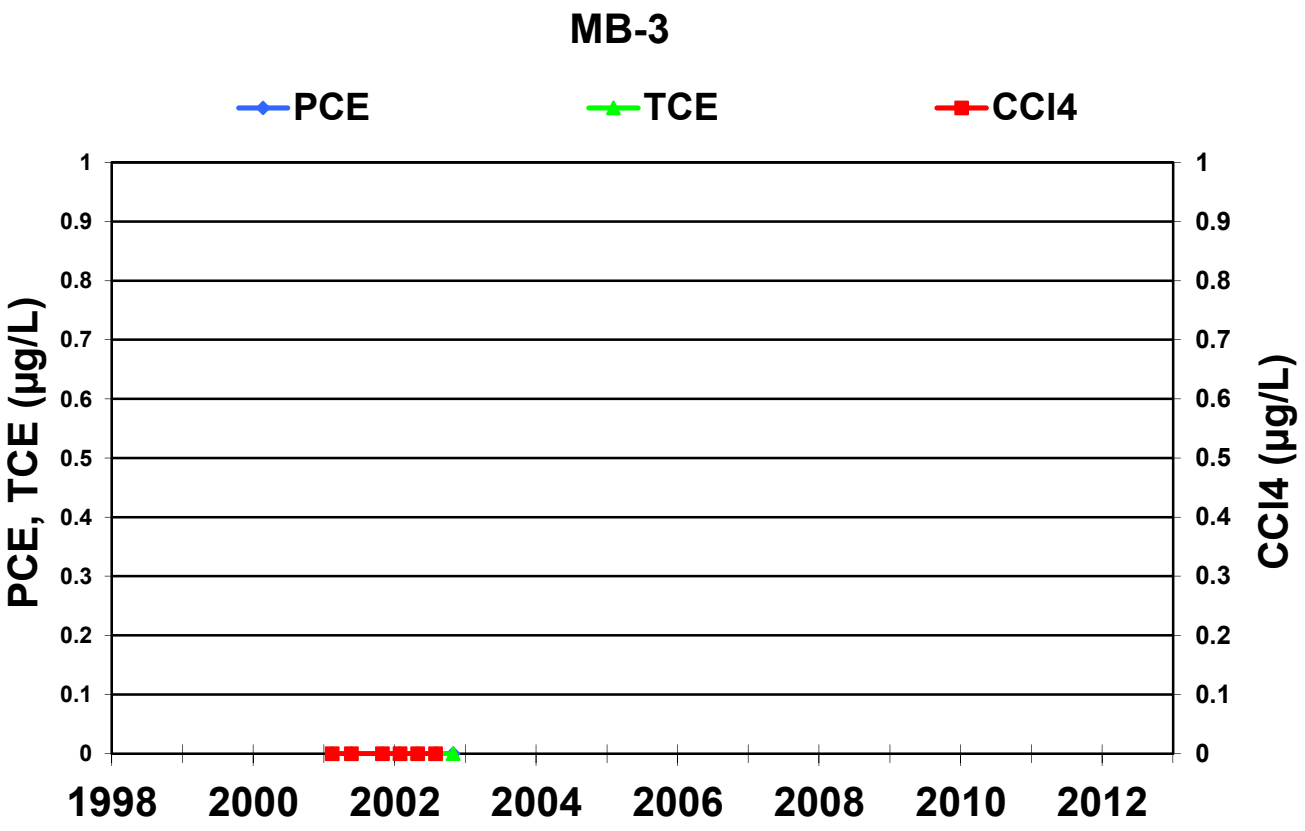

MAFB-462
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

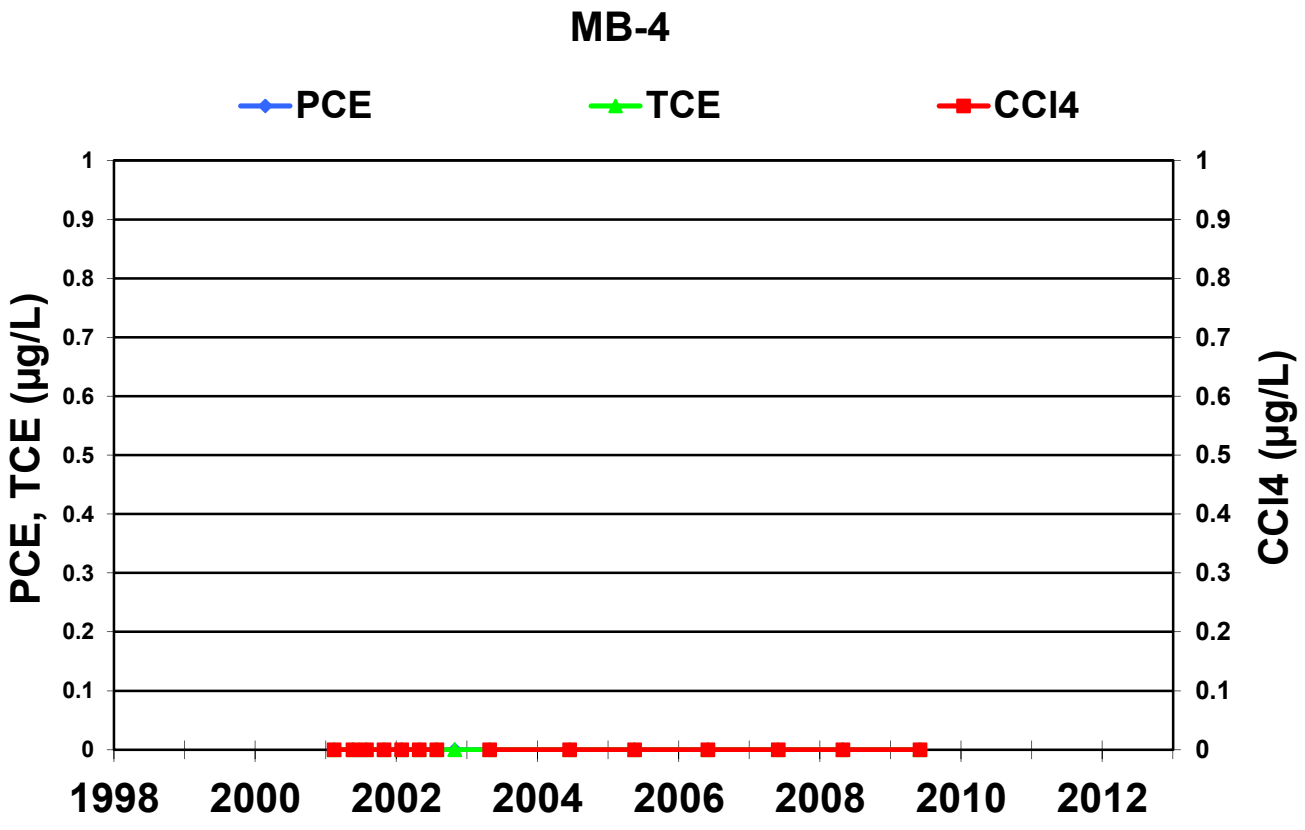

MAFB-463D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
18
16
14
12
10
8
6
4
2
0
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

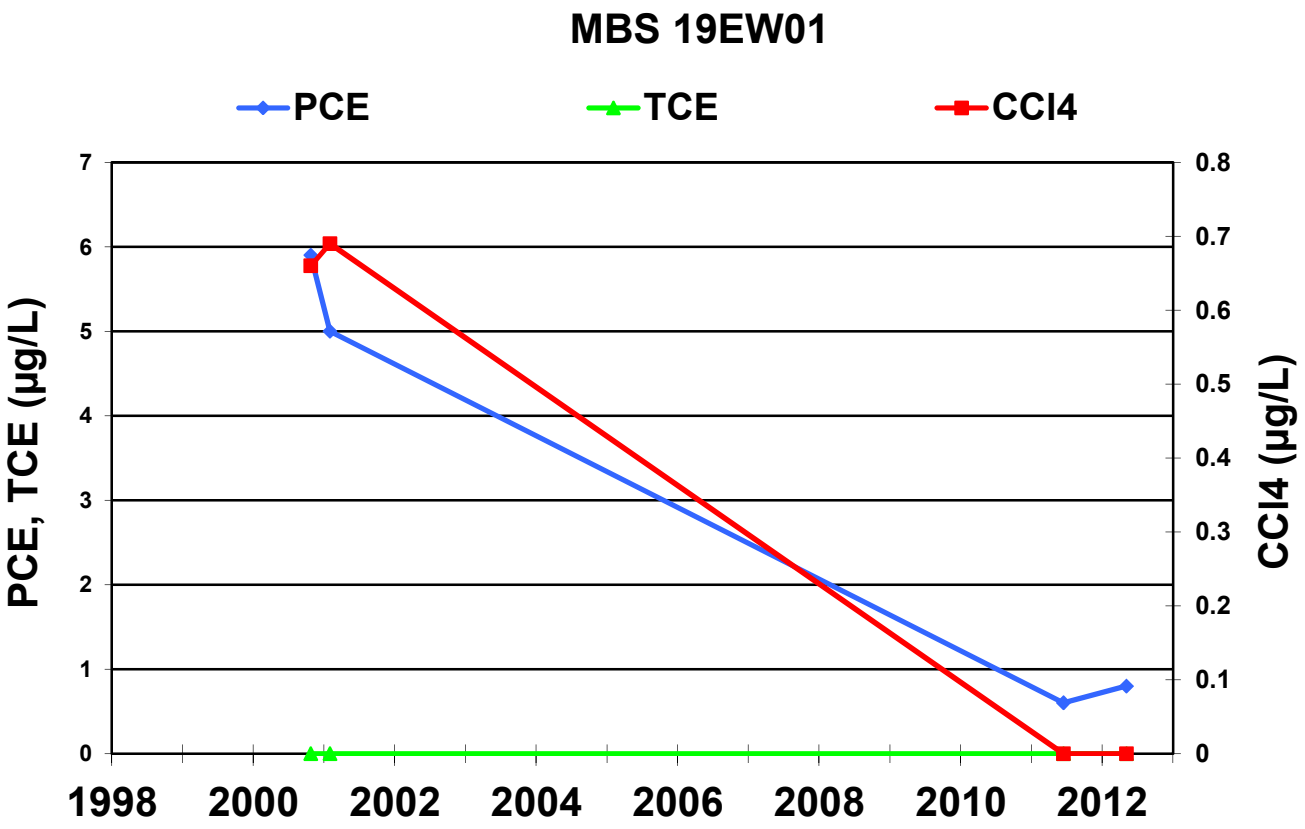

MAFB-463Dd
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

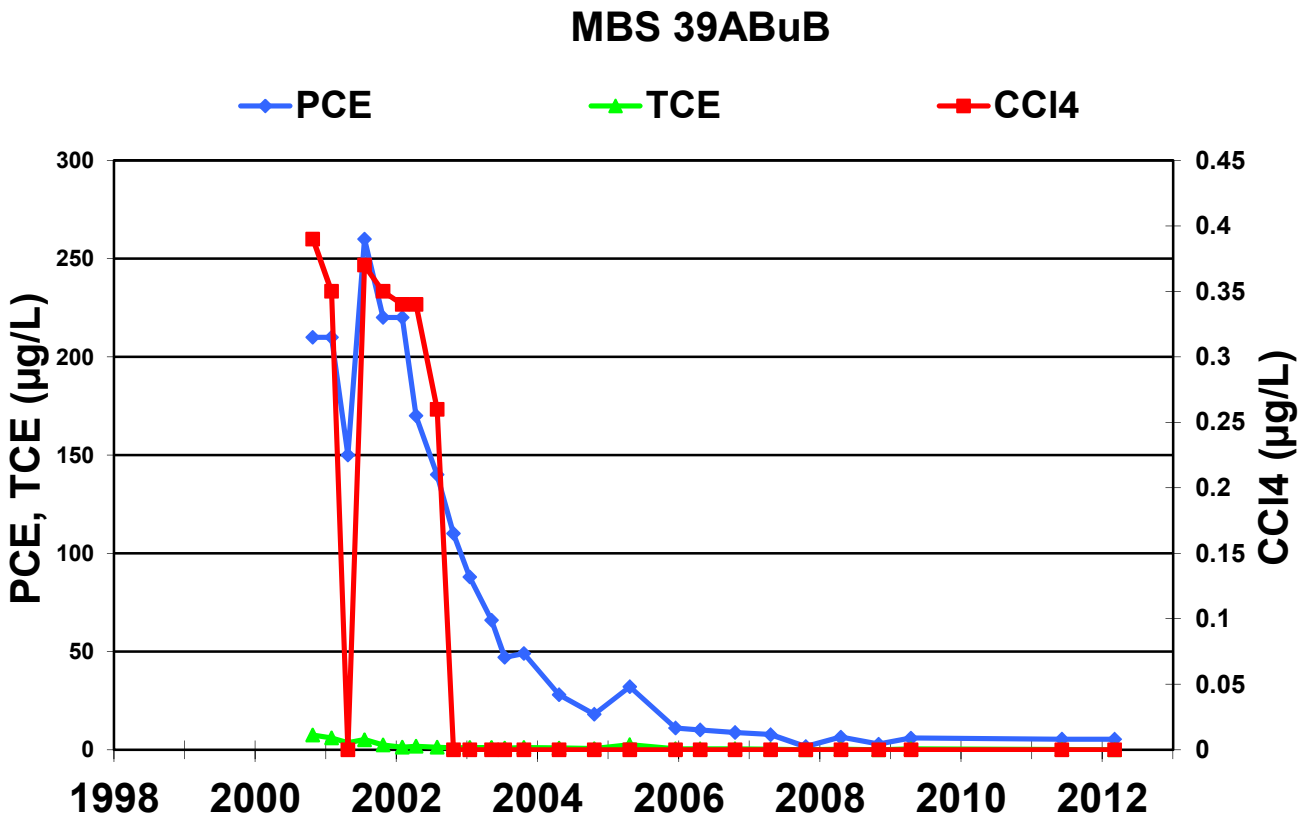

MAFB-464
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

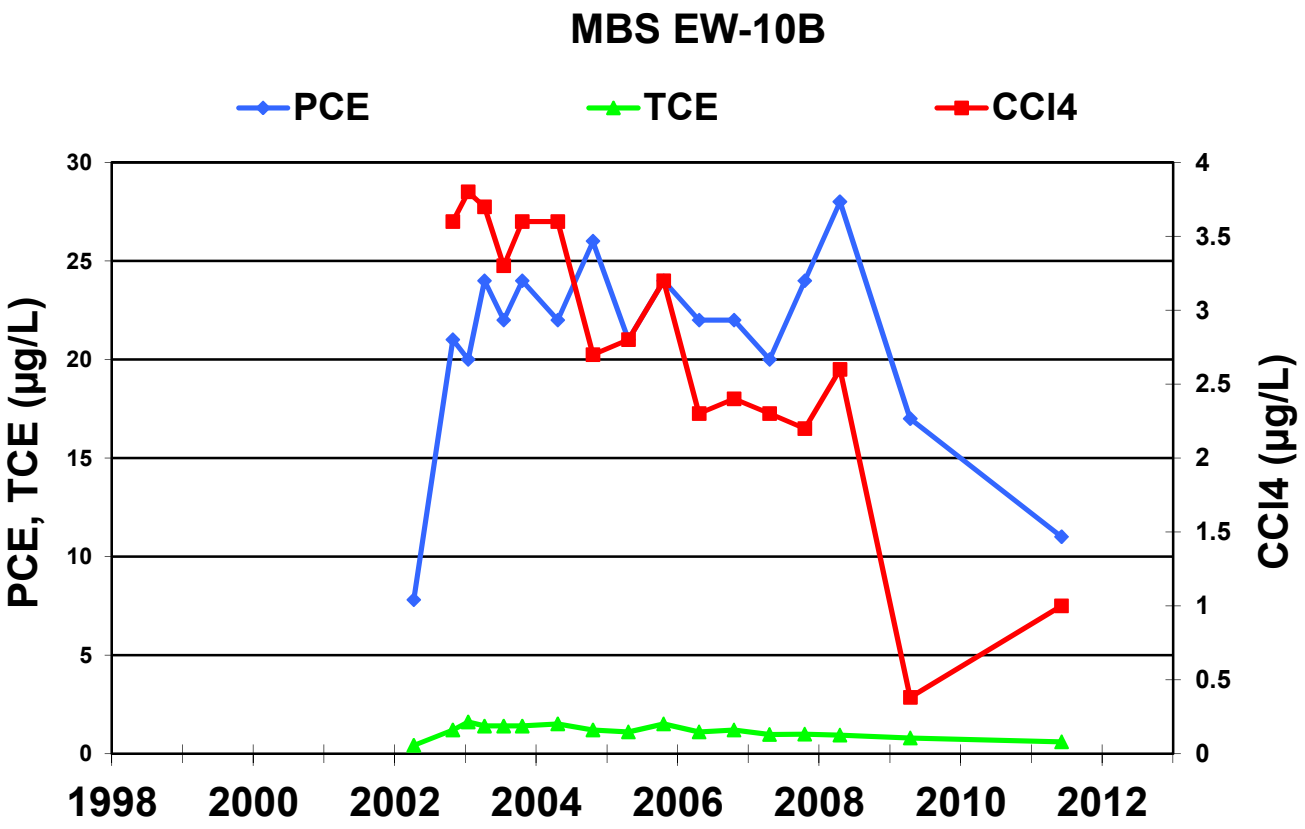

MAFB-465
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

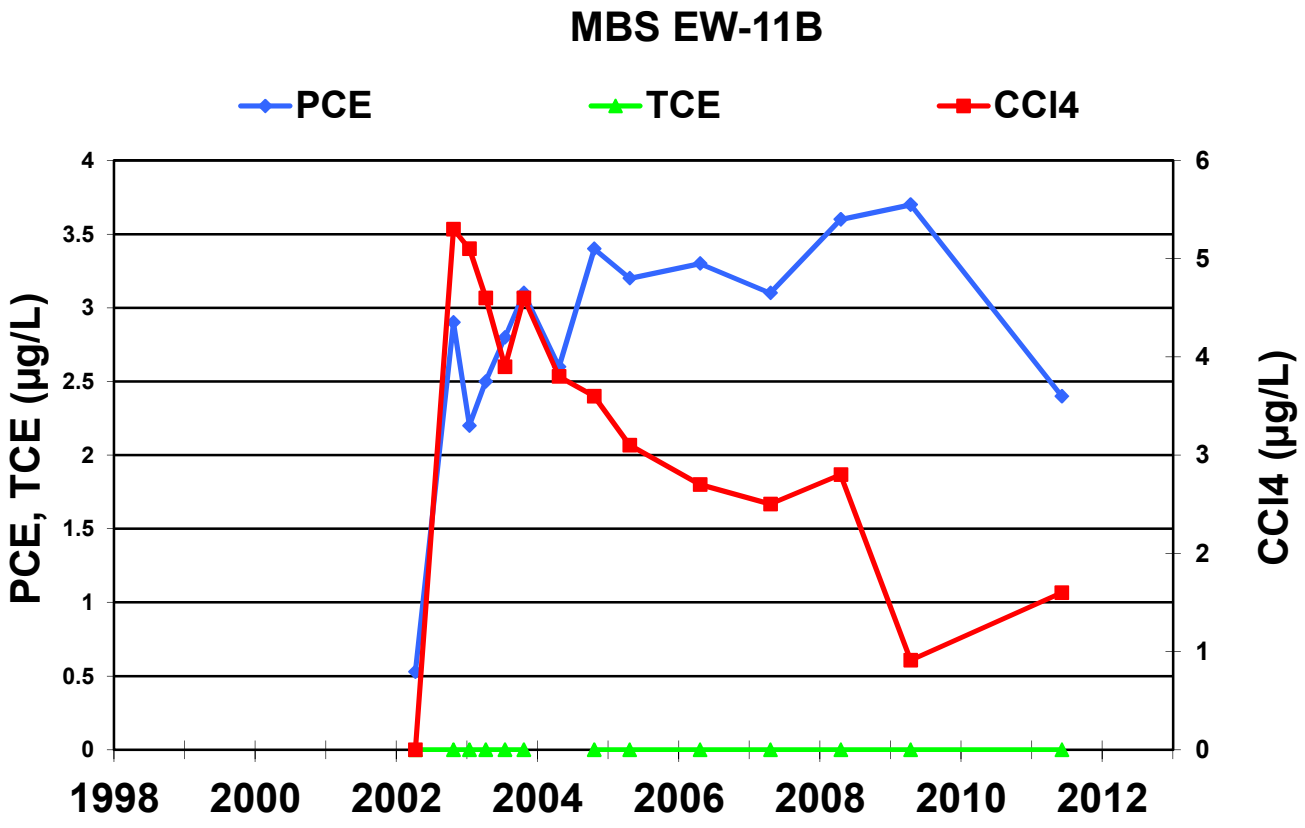

MB-3
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

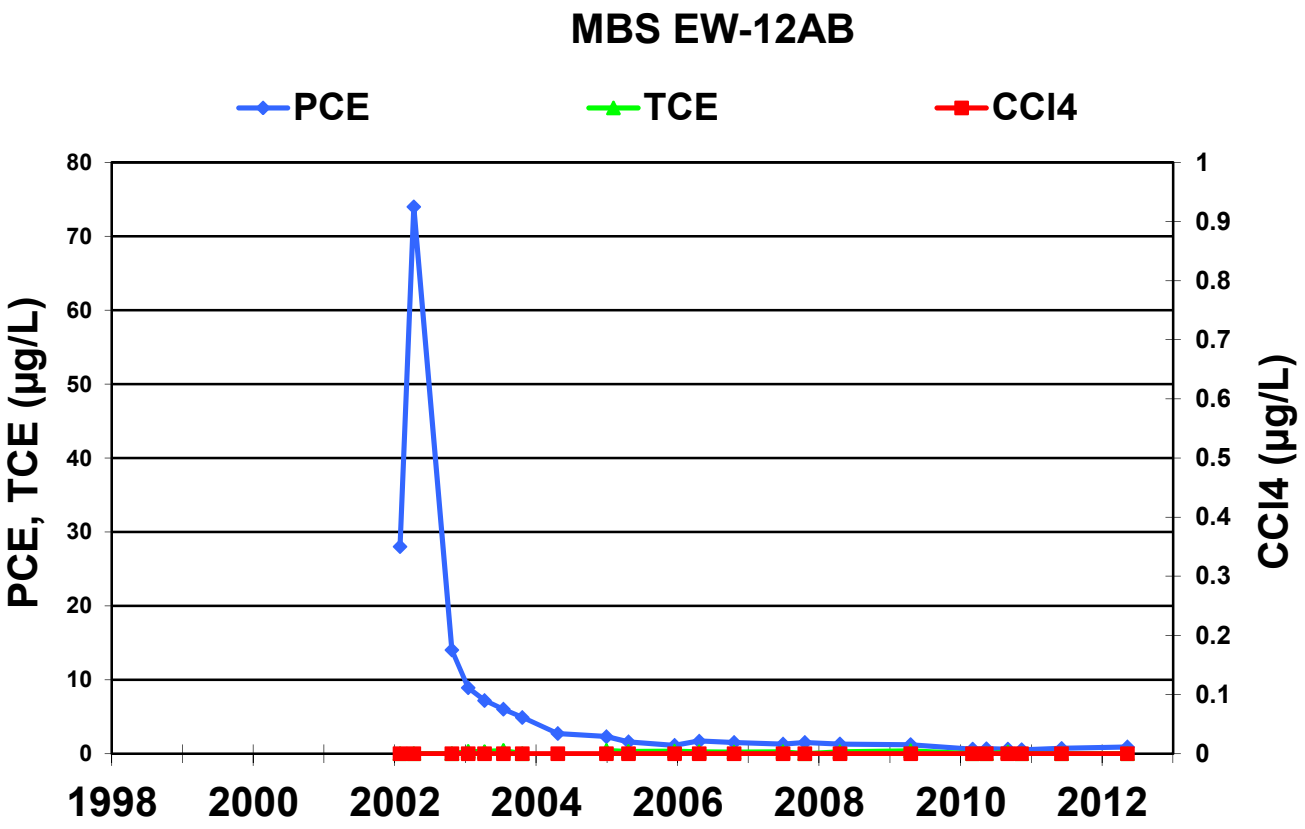

MB-4
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

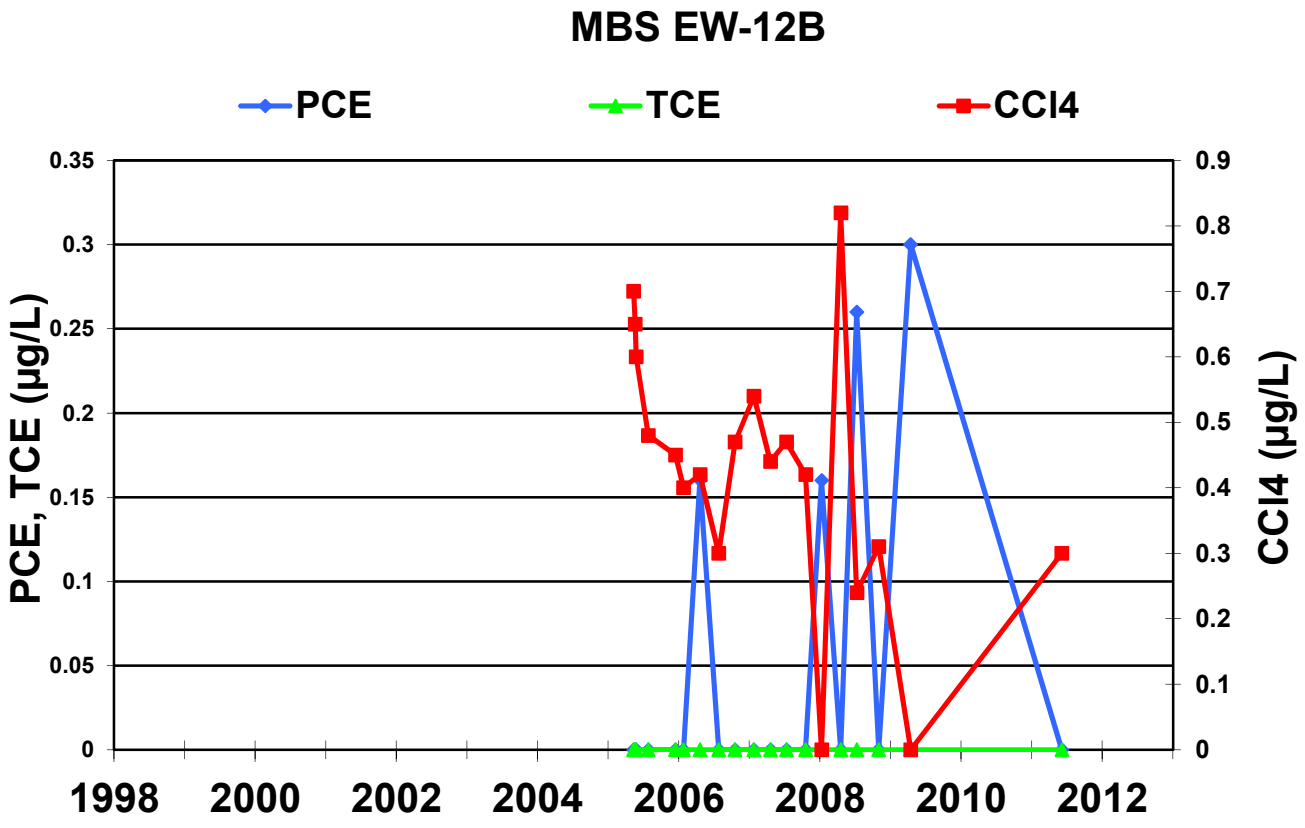

MBS 19EW01
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
1
2
3
4
5
6
7
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
1998
2000
2002
2004
2006
2008
2010
2012

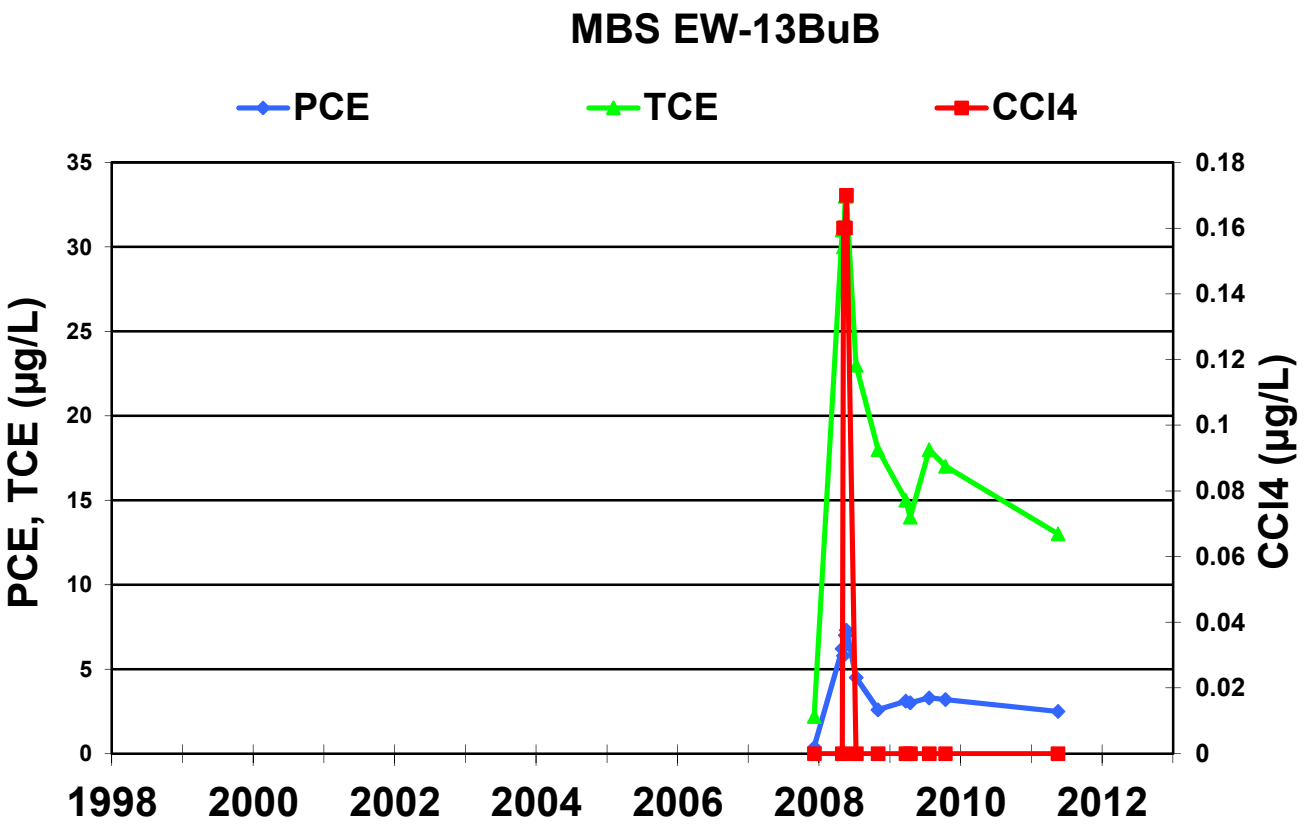

MBS 39ABuB
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
50
100
150
200
250
300
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
0.45
1998
2000
2002
2004
2006
2008
2010
2012

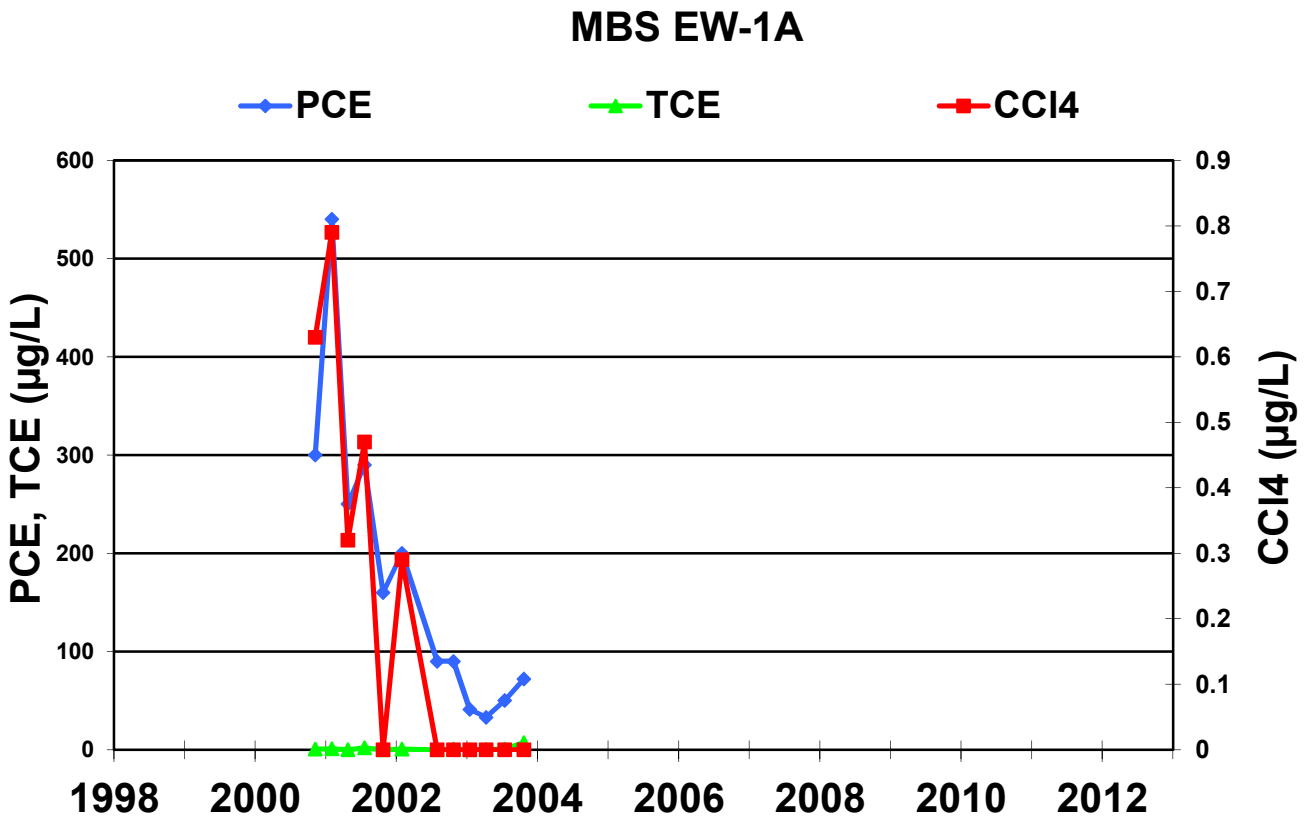

MBS EW-10B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
30
25
20
15
10
5
0
4
3.5
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

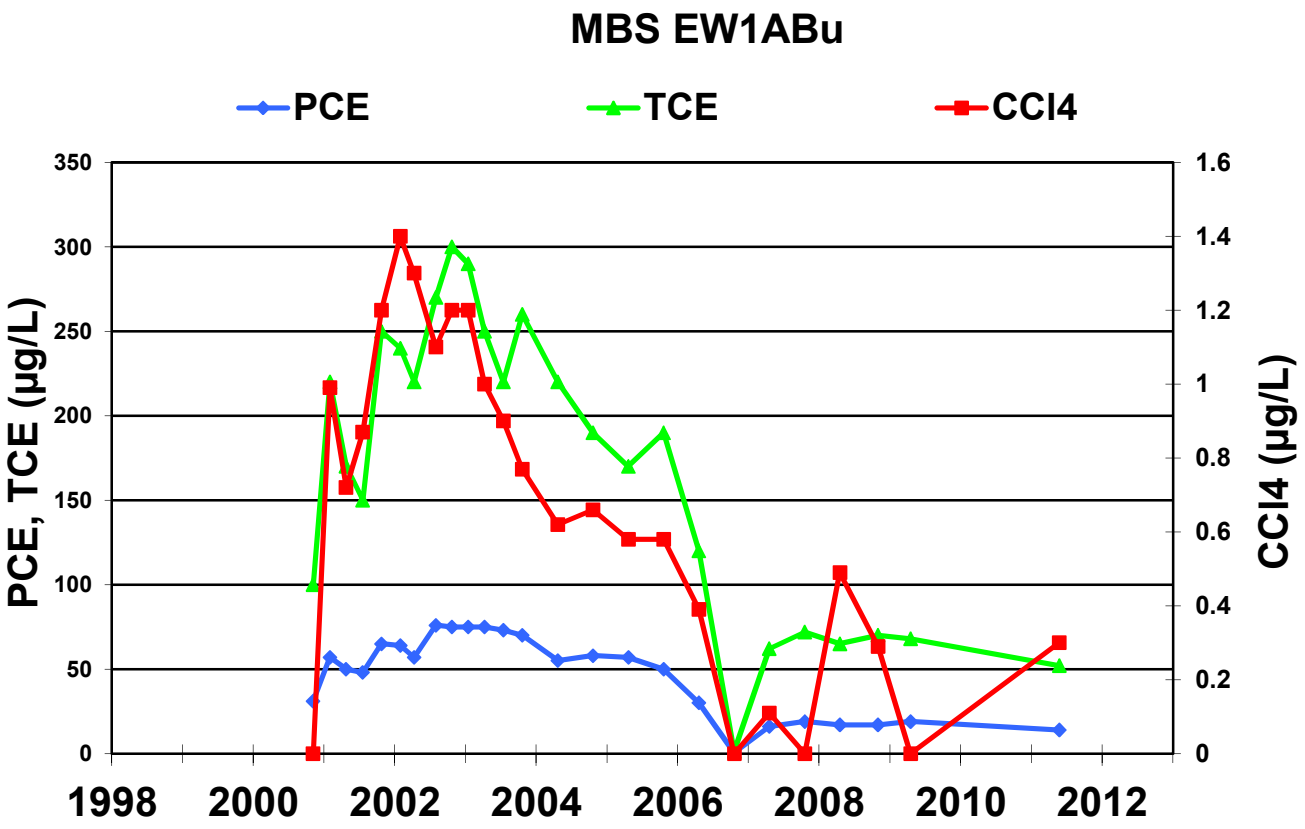

MBS EW-11B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
4
3.5
3
2.5
2
1.5
1
0.5
0
6
5
4
3
2
1
0
1998
2000
2002
2004
2006
2008
2010
2012

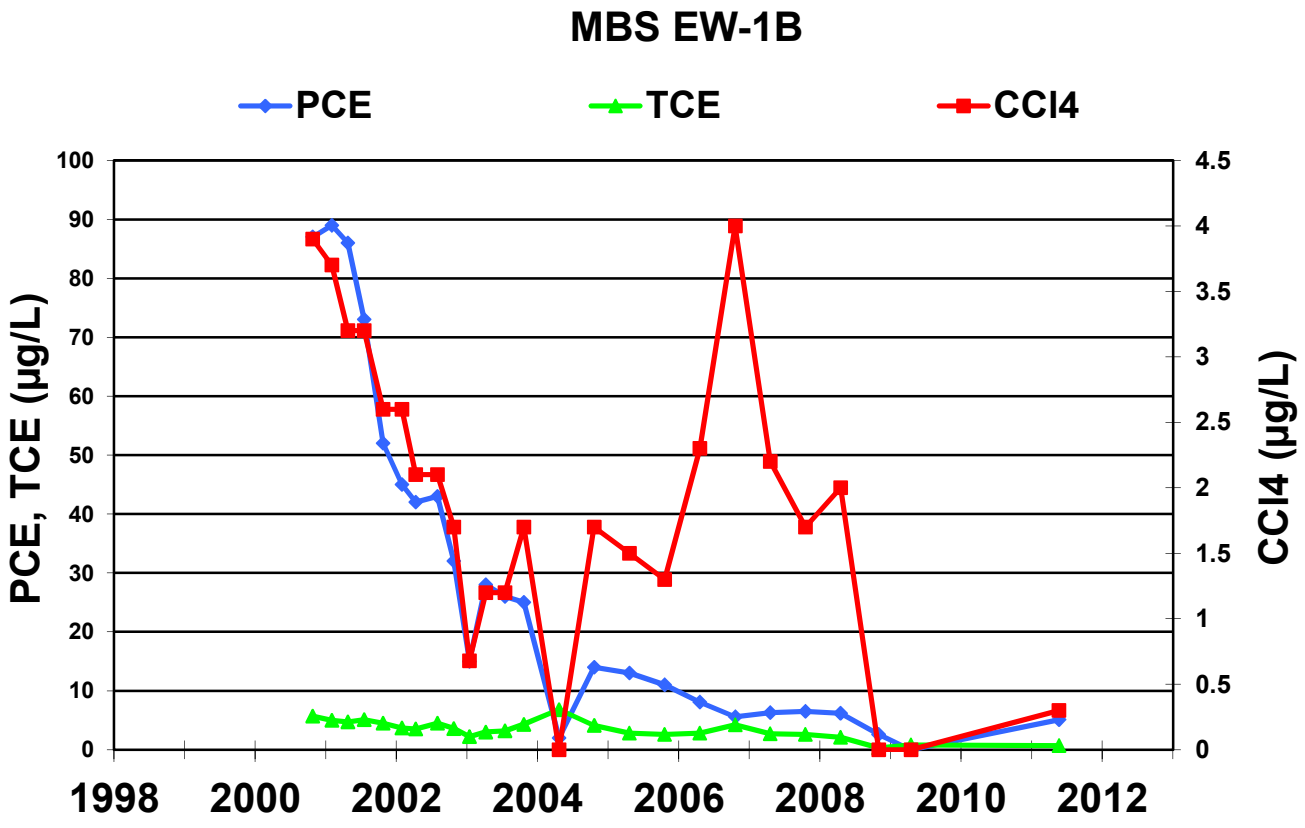

MBS EW-12AB
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
80
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

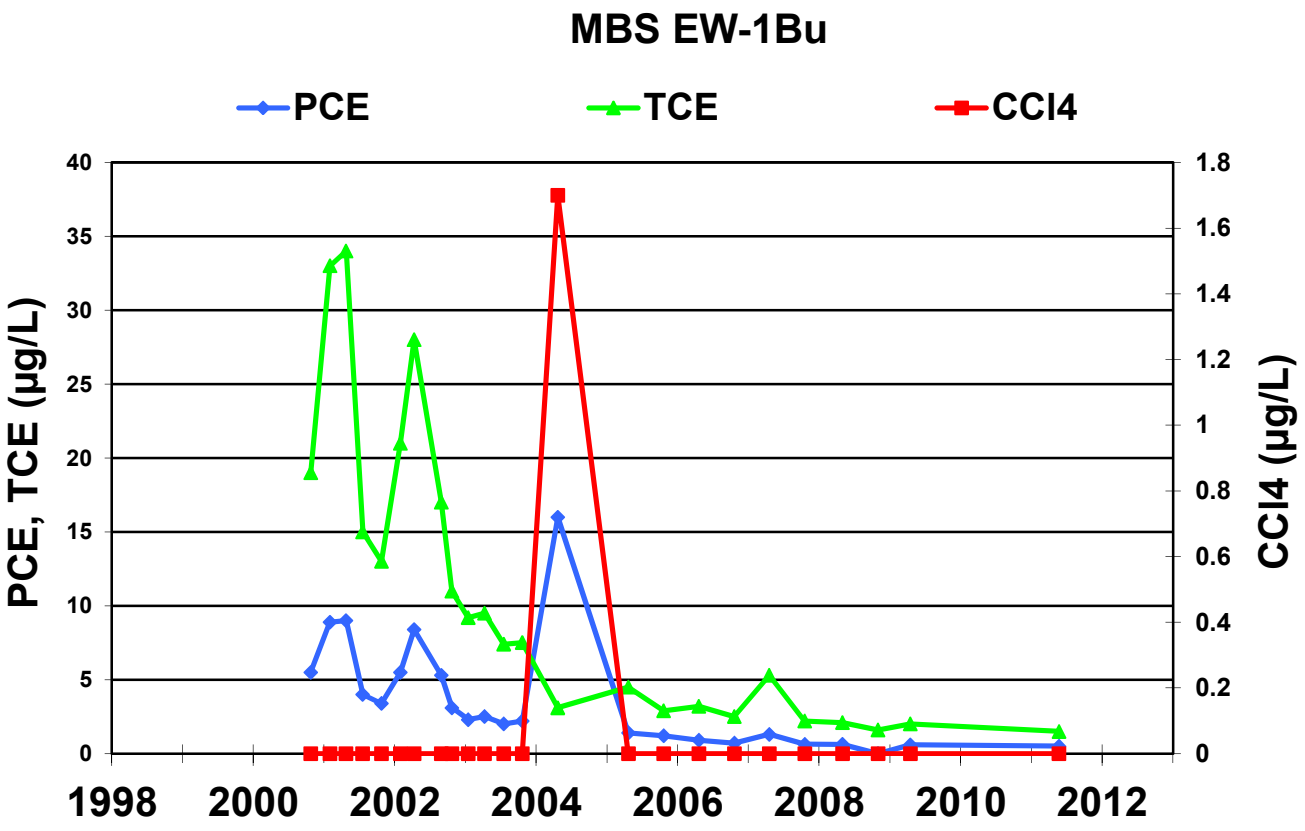

MBS EW-12B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

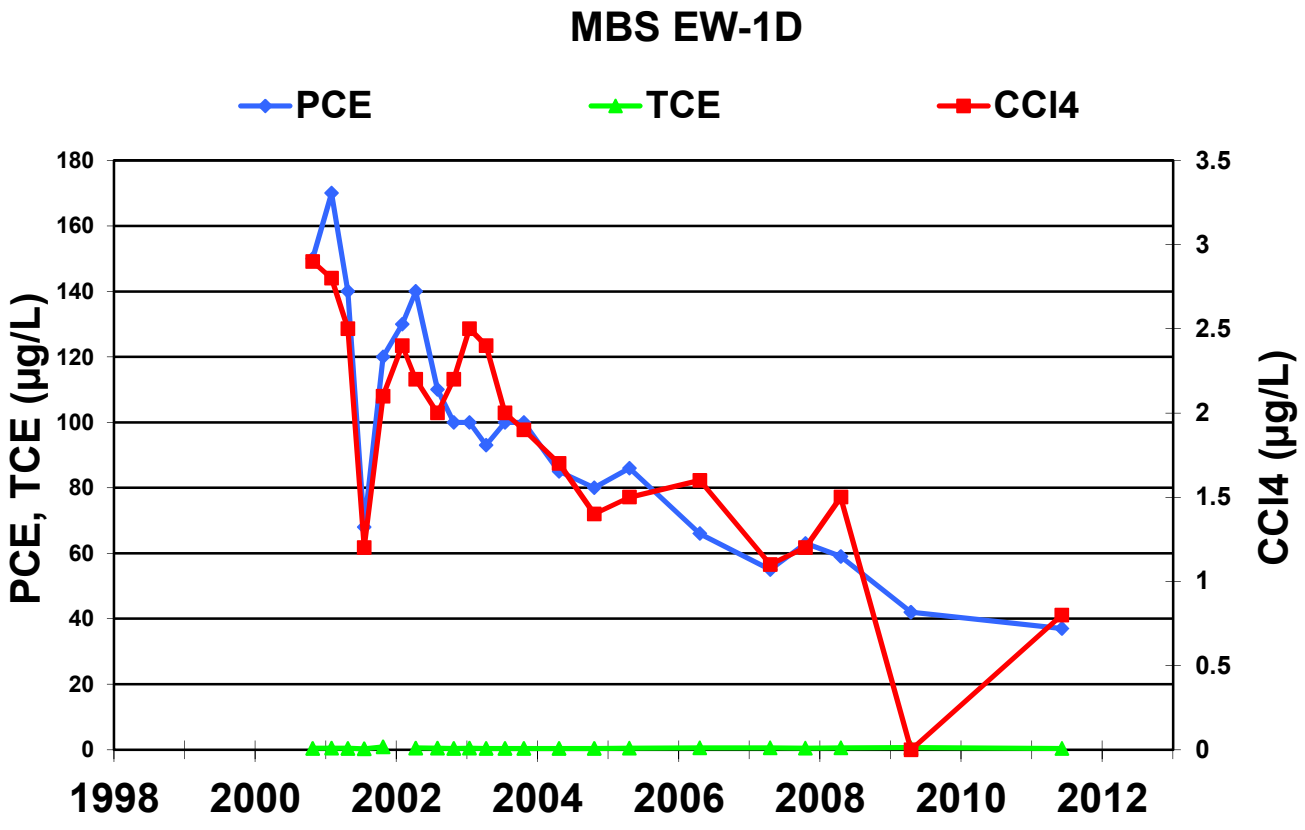

MBS EW-13BuB
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
35
30
25
20
15
10
5
0
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1998
2000
2002
2004
2006
2008
2010
2012

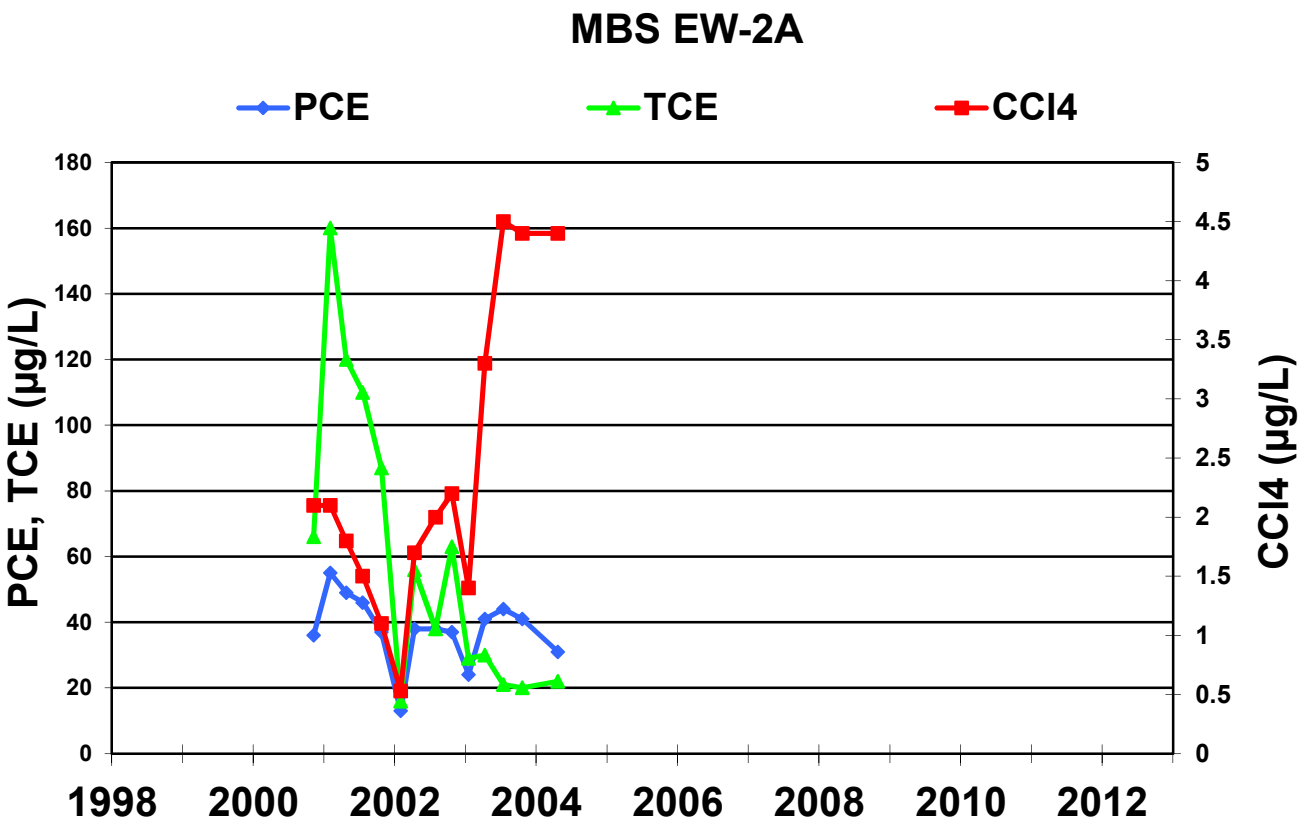

MBS EW-1A
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
600
500
400
300
200
100
0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

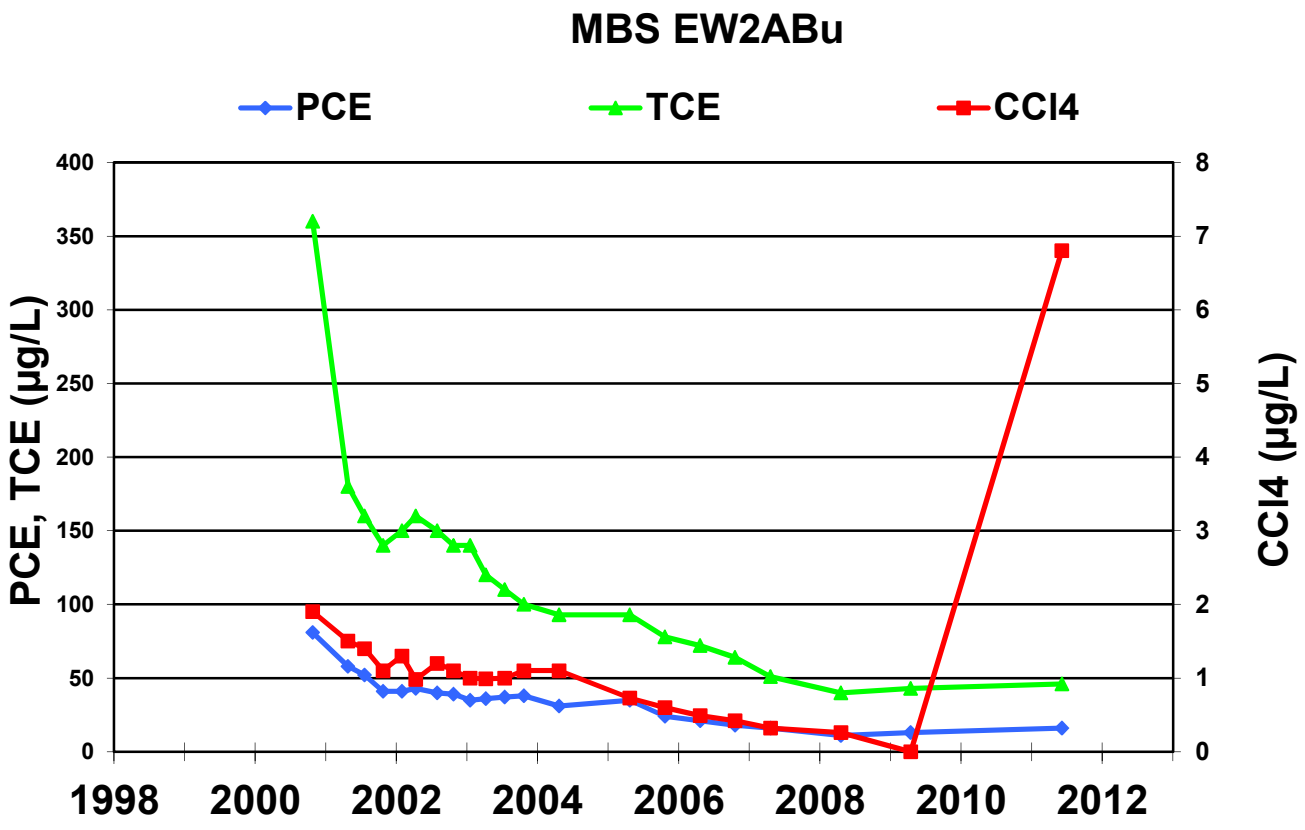

MBS EW1ABu
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
350
300
250
200
150
100
50
0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

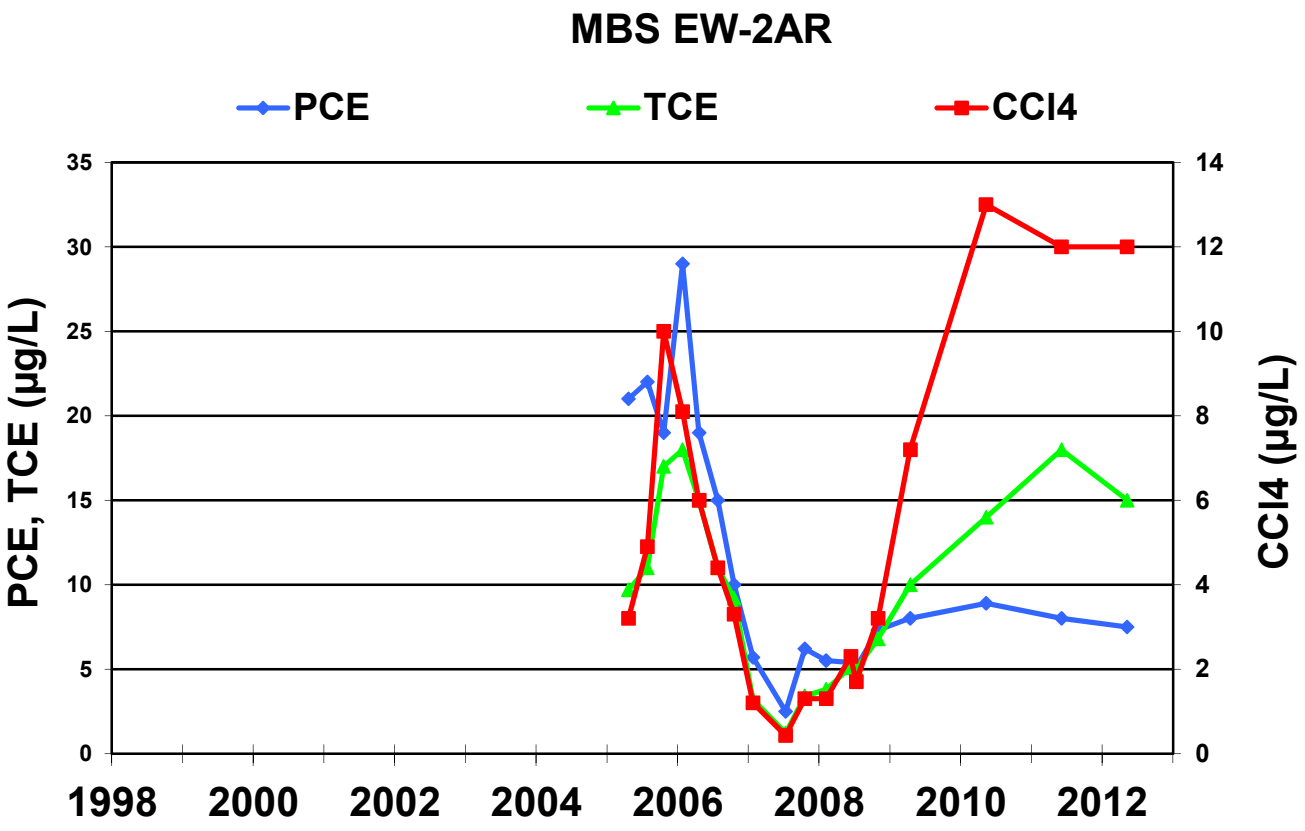

MBS EW-1B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
100
90
80
70
60
50
40
30
20
10
0
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

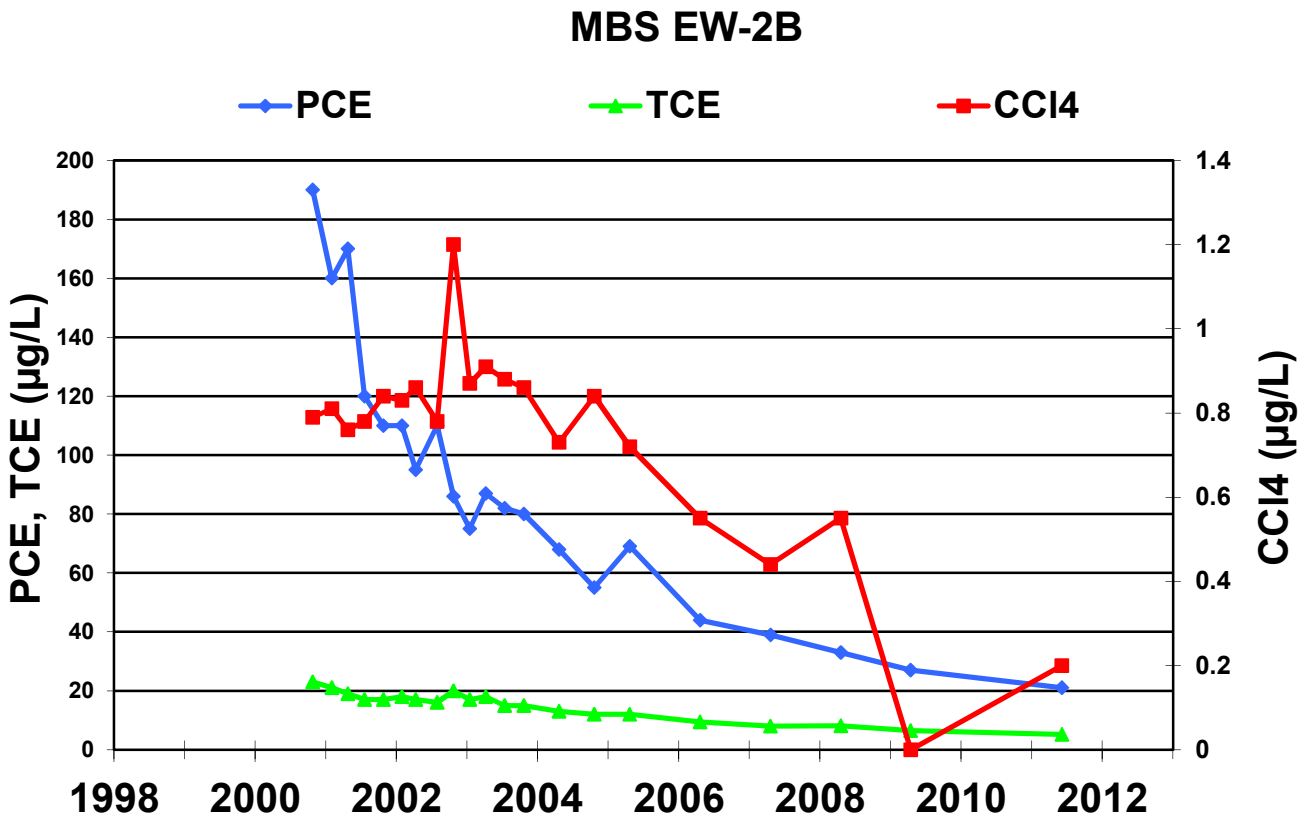

MBS EW-1Bu
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
40
35
30
25
20
15
10
5
0
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

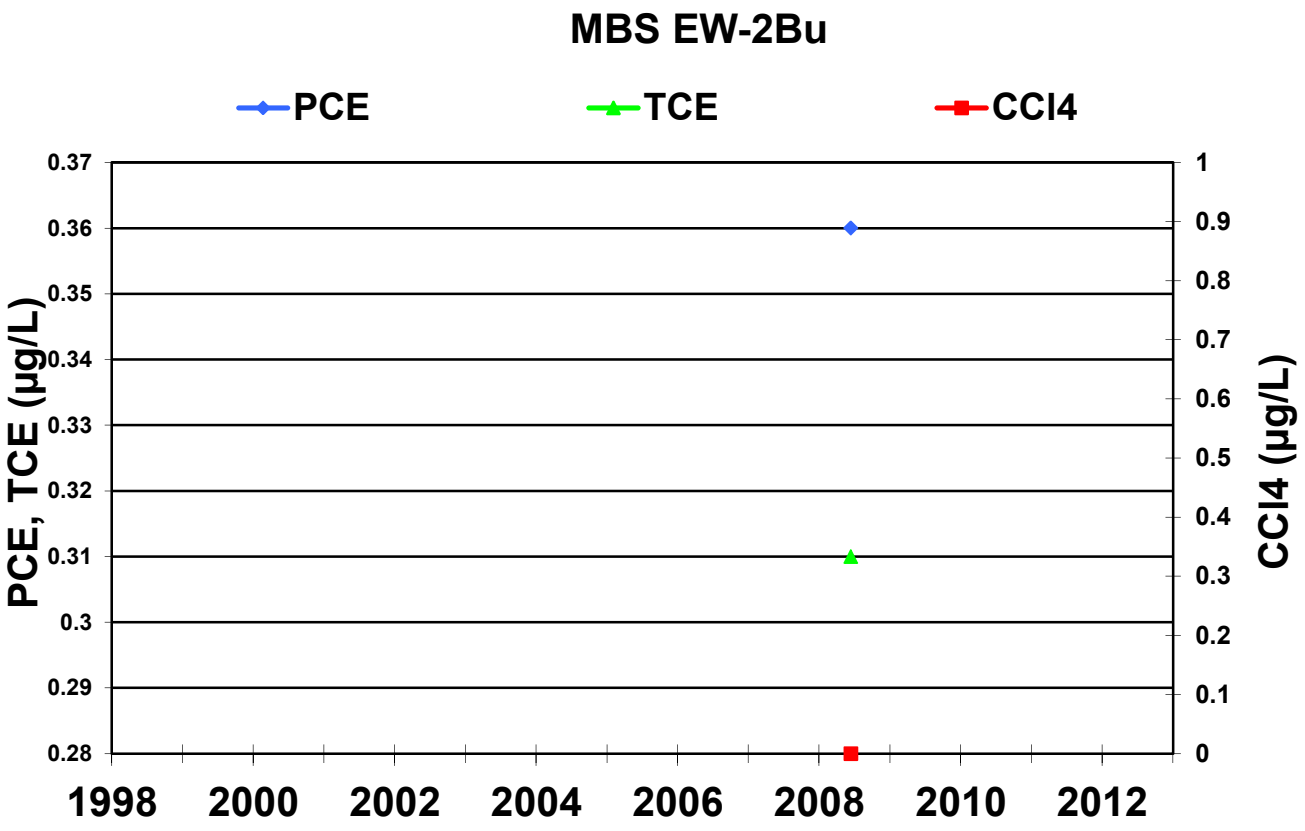

MBS EW-1D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
180
160
140
120
100
80
60
40
20
0
3.5
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

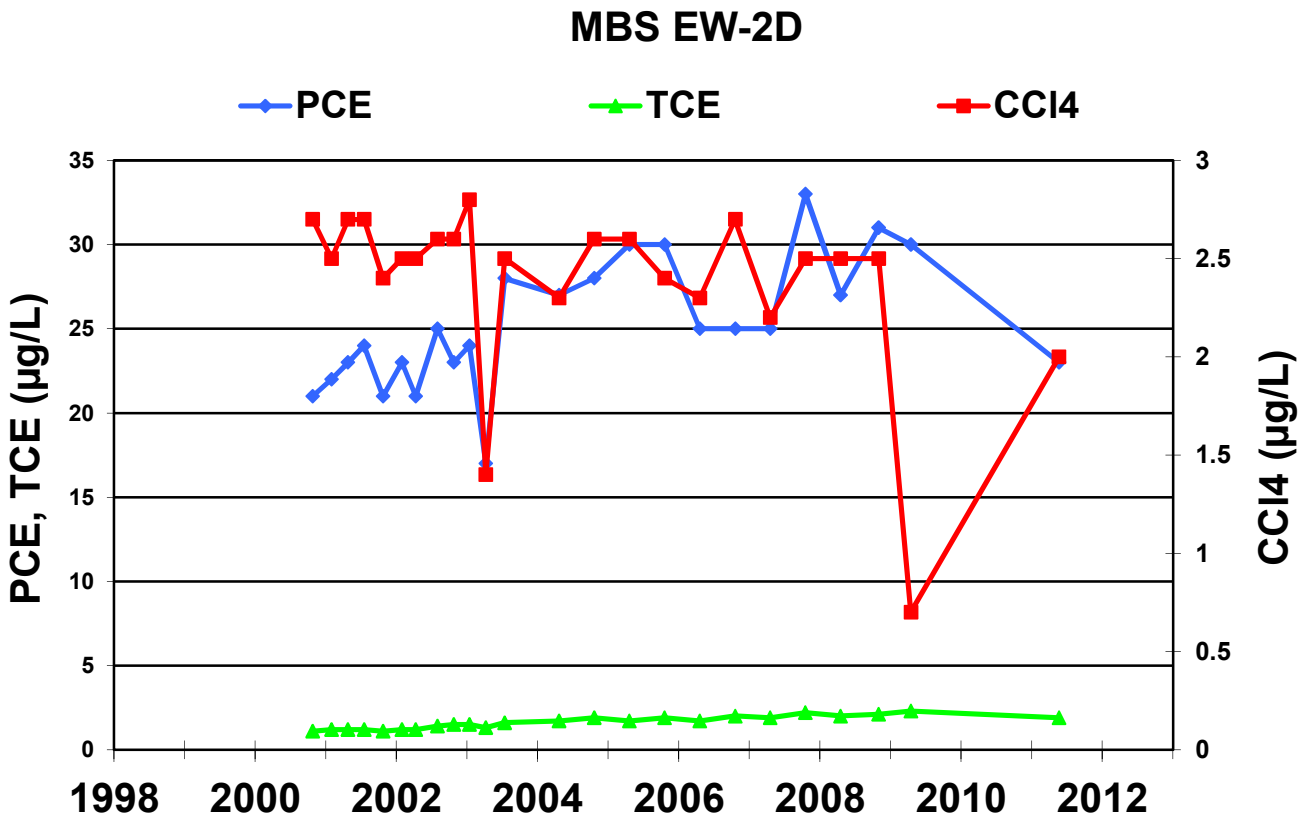

MBS EW-2A
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
180
160
140
120
100
80
60
40
20
0
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

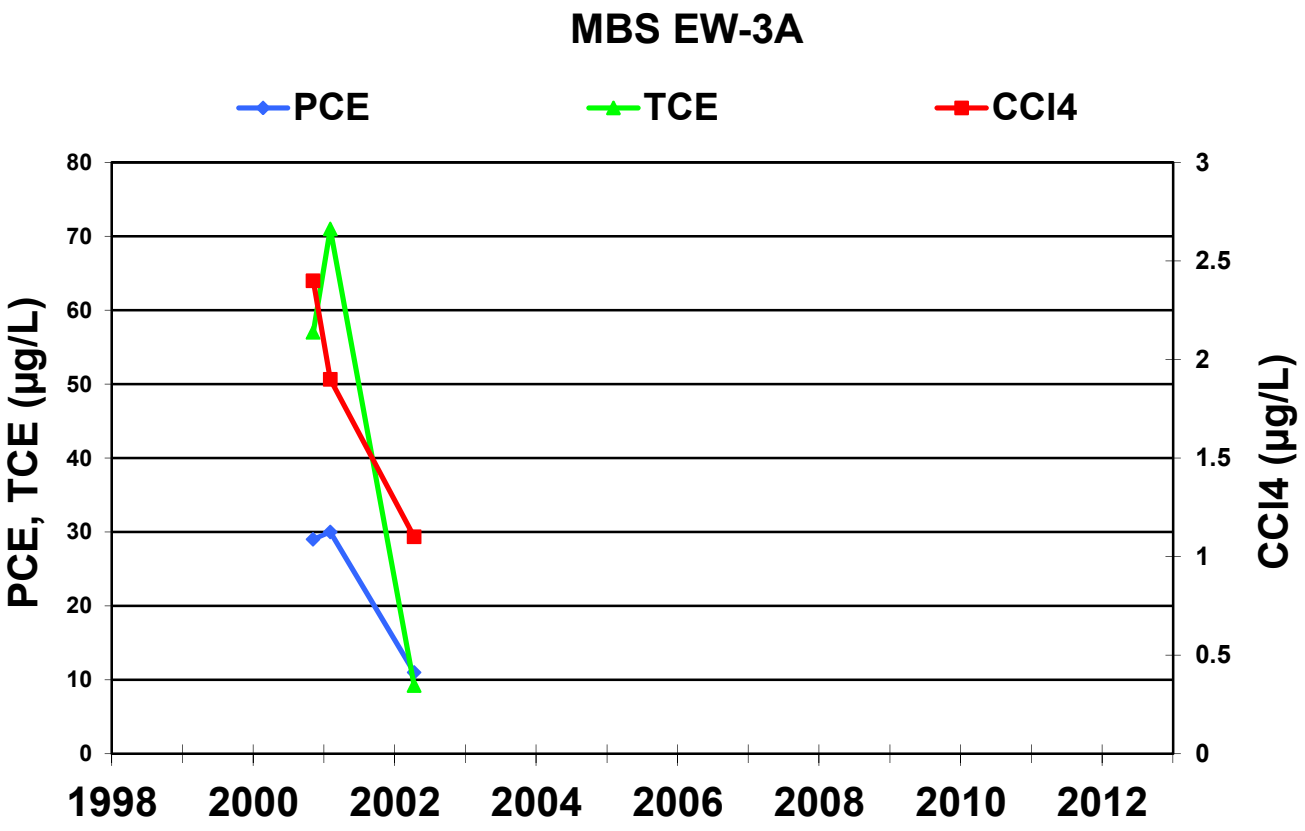

MBS EW2ABu
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
400
350
300
250
200
150
100
50
0
8
7
6
5
4
3
2
1
0
1998
2000
2002
2004
2006
2008
2010
2012

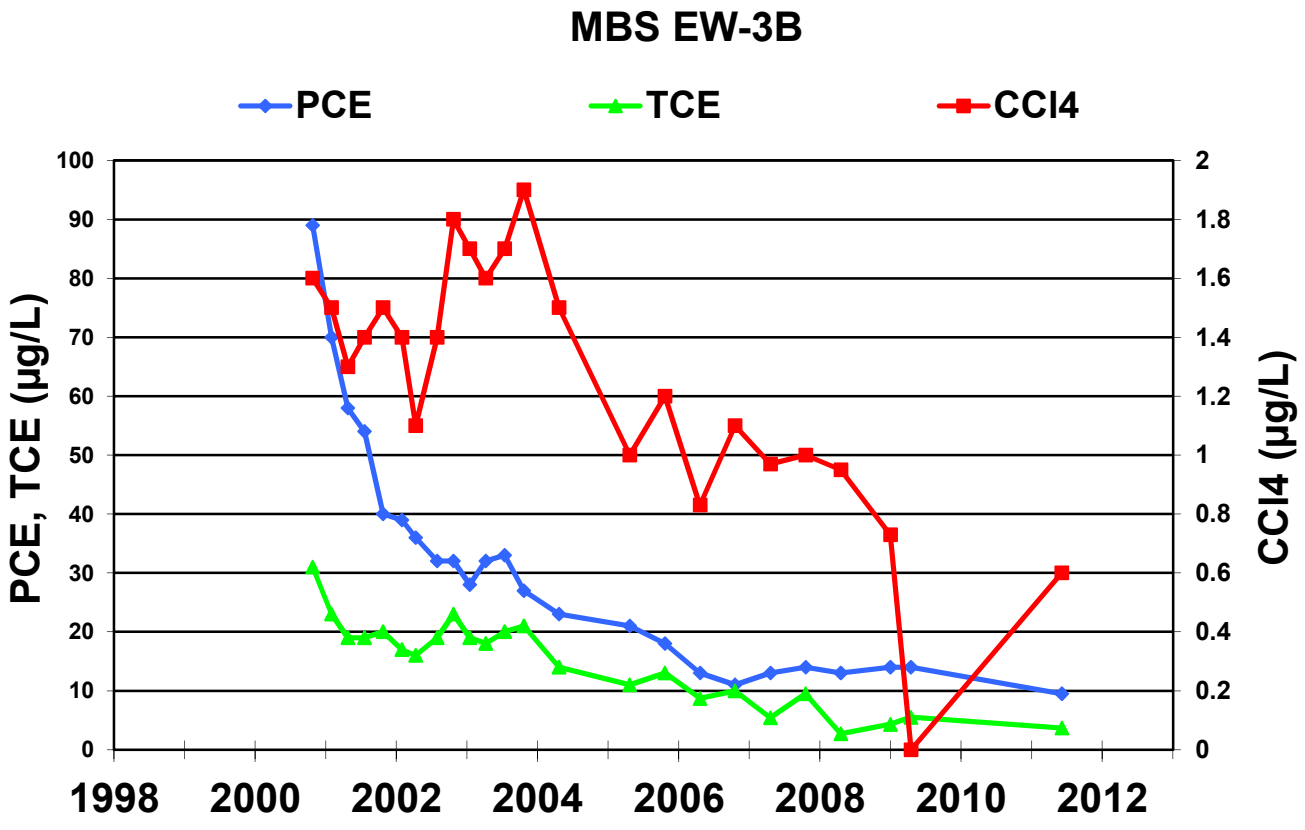

MBS EW-2AR
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
35
30
25
20
15
10
5
0
14
12
10
8
6
4
2
0
1998
2000
2002
2004
2006
2008
2010
2012

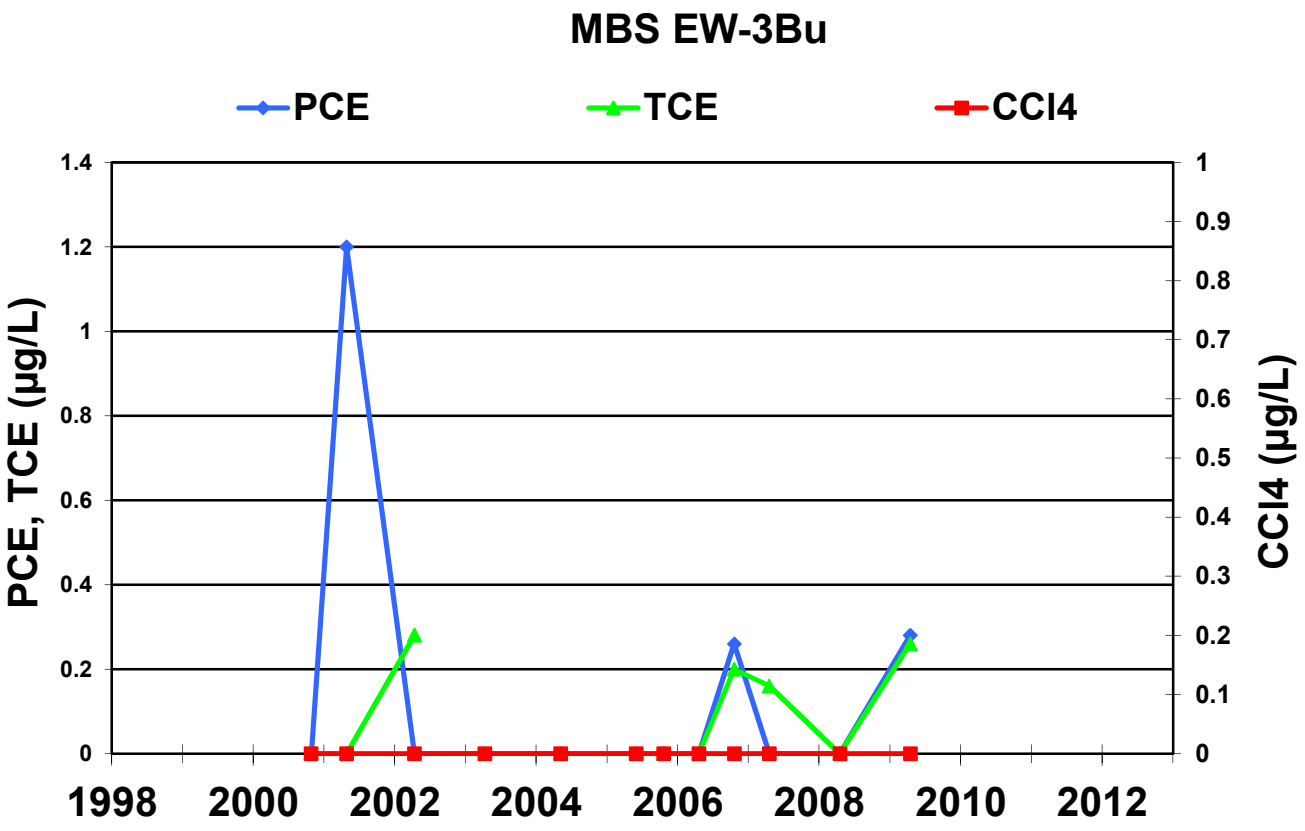

MBS EW-2B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
200
180
160
140
120
100
80
60
40
20
0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

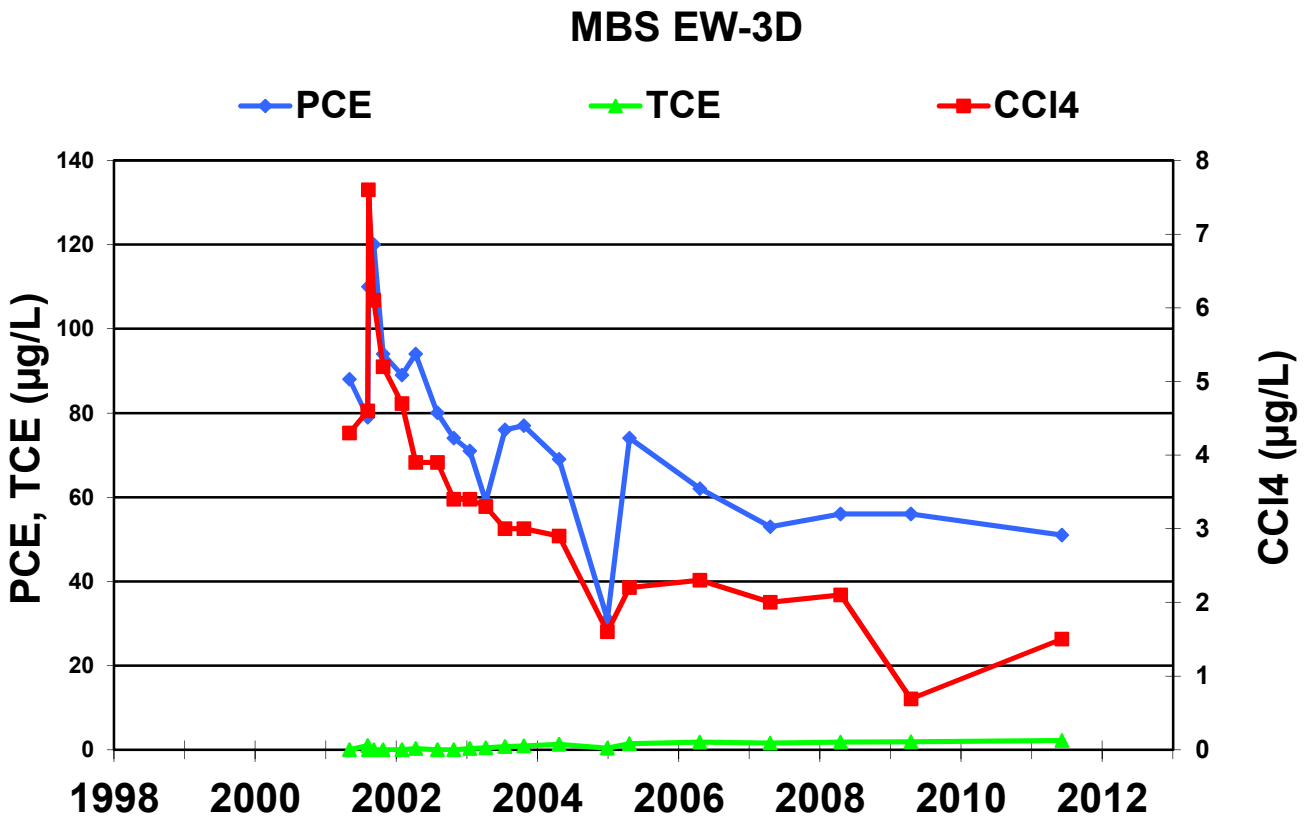

MBS EW-2Bu
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.37
0.36
0.35
0.34
0.33
0.32
0.31
0.3
0.29
0.28
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

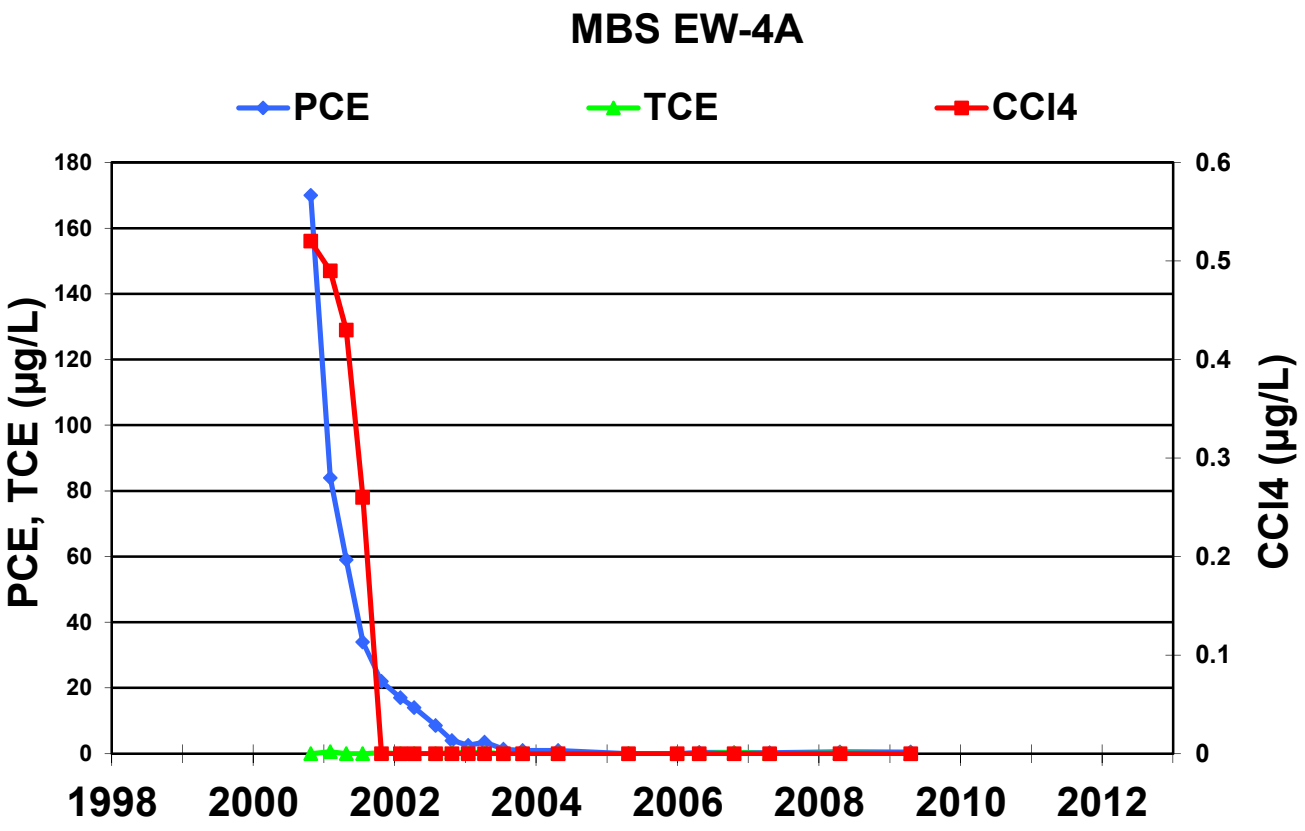

MBS EW-2D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
35
30
25
20
15
10
5
0
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

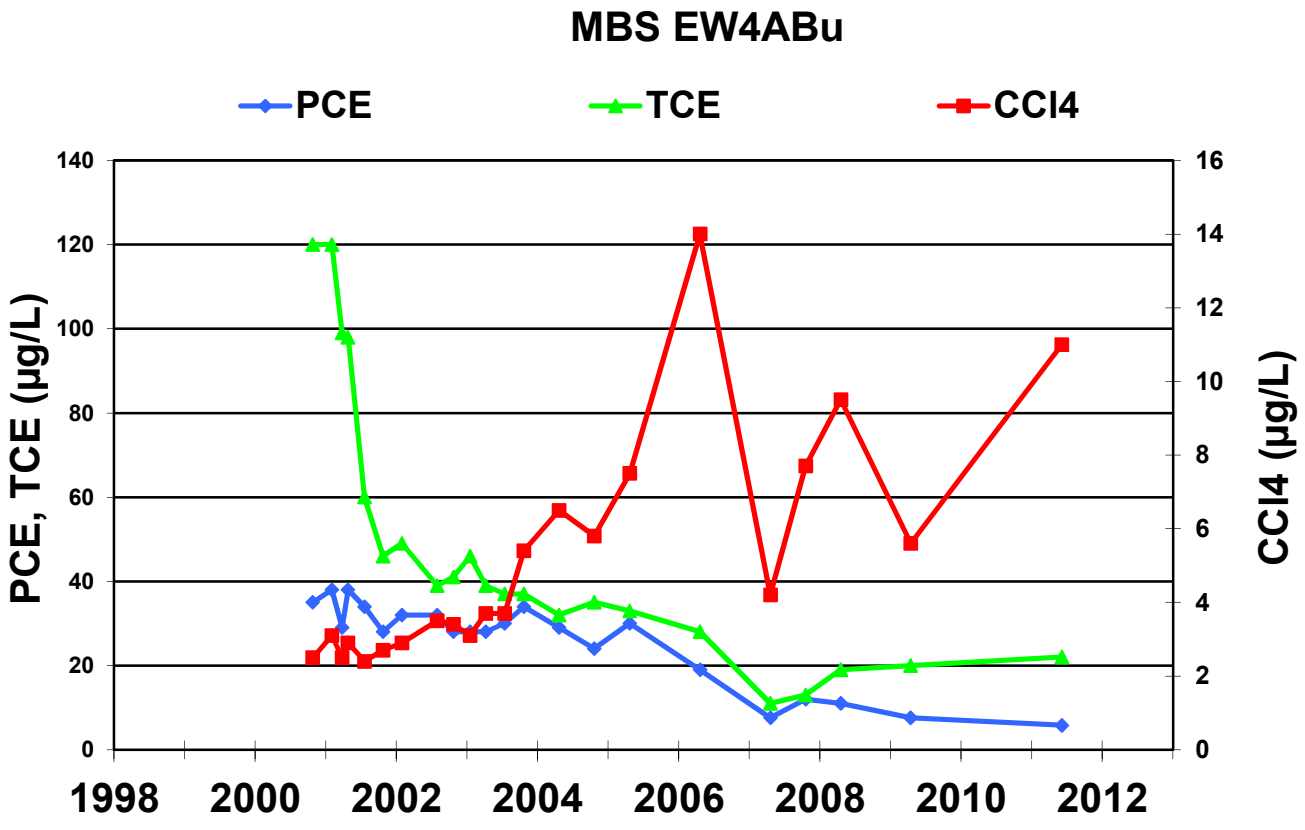

MBS EW-3A
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
80
70
60
50
40
30
20
10
0
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

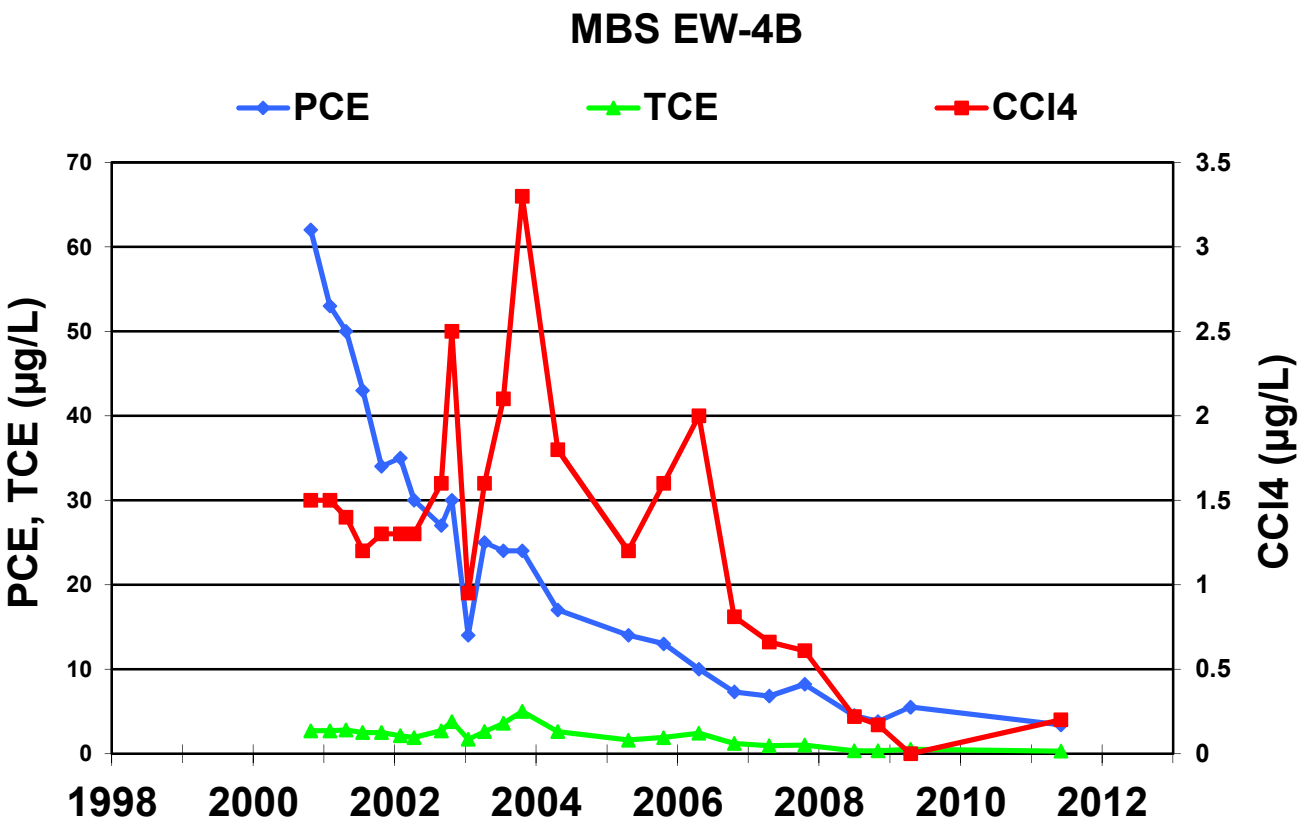

MBS EW-3B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
100
90
80
70
60
50
40
30
20
10
0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

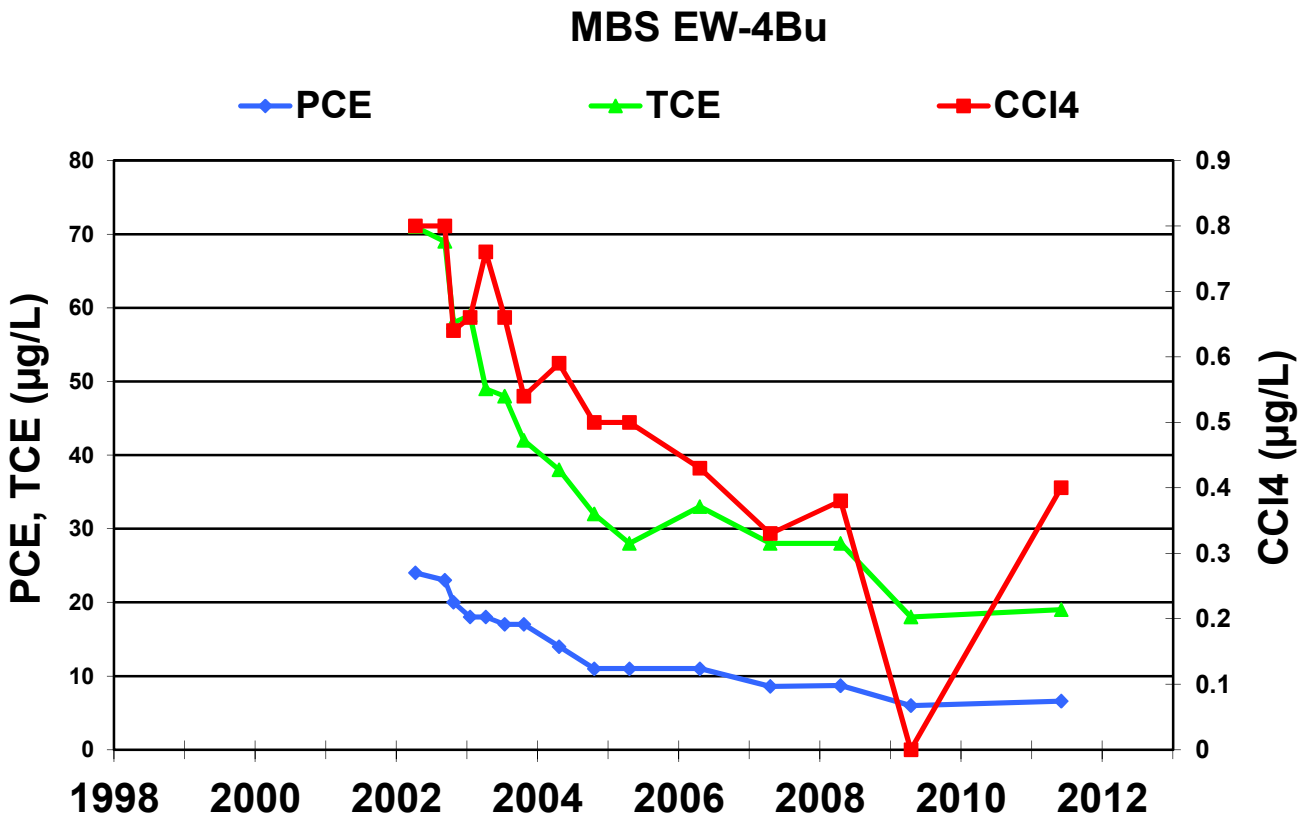

MBS EW-3Bu
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

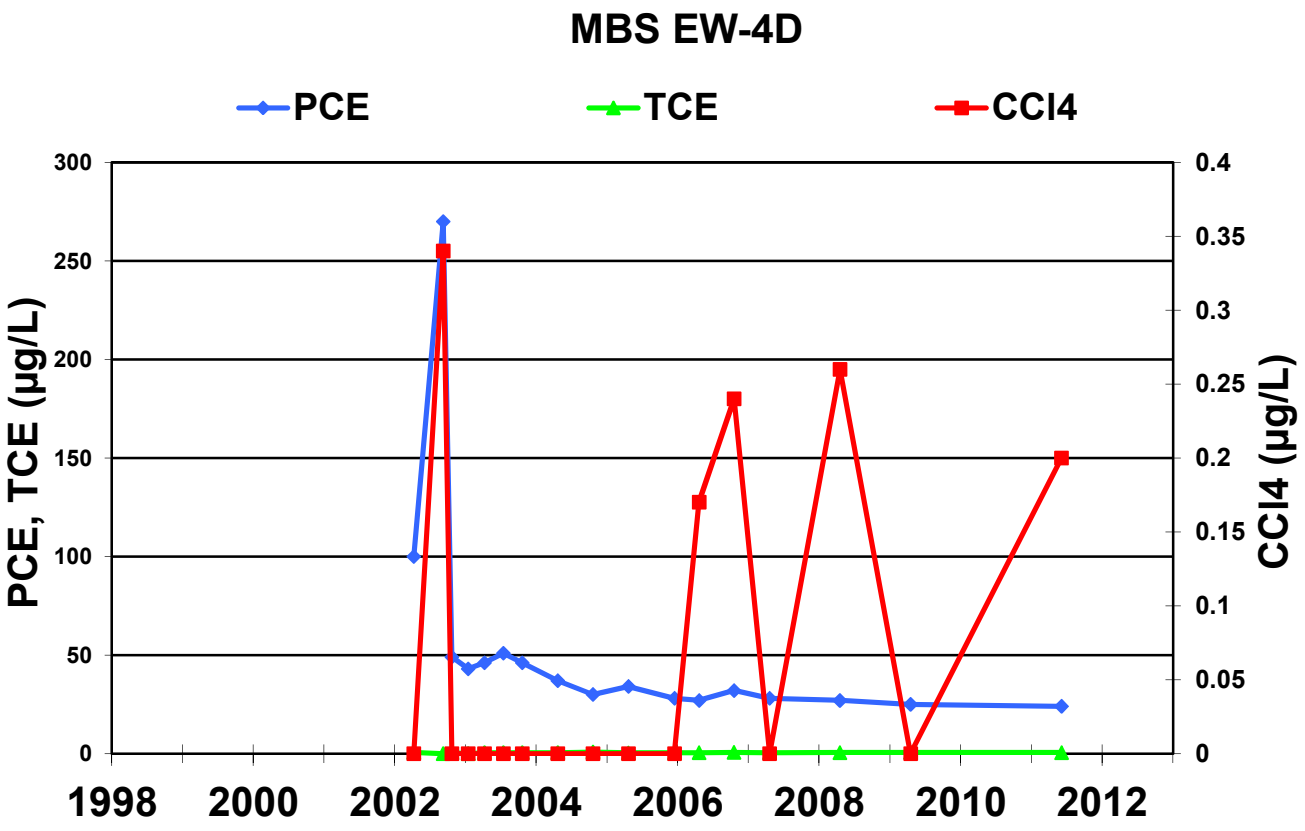

MBS EW-3D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
140
120
100
80
60
40
20
0
8
7
6
5
4
3
2
1
0
1998
2000
2002
2004
2006
2008
2010
2012

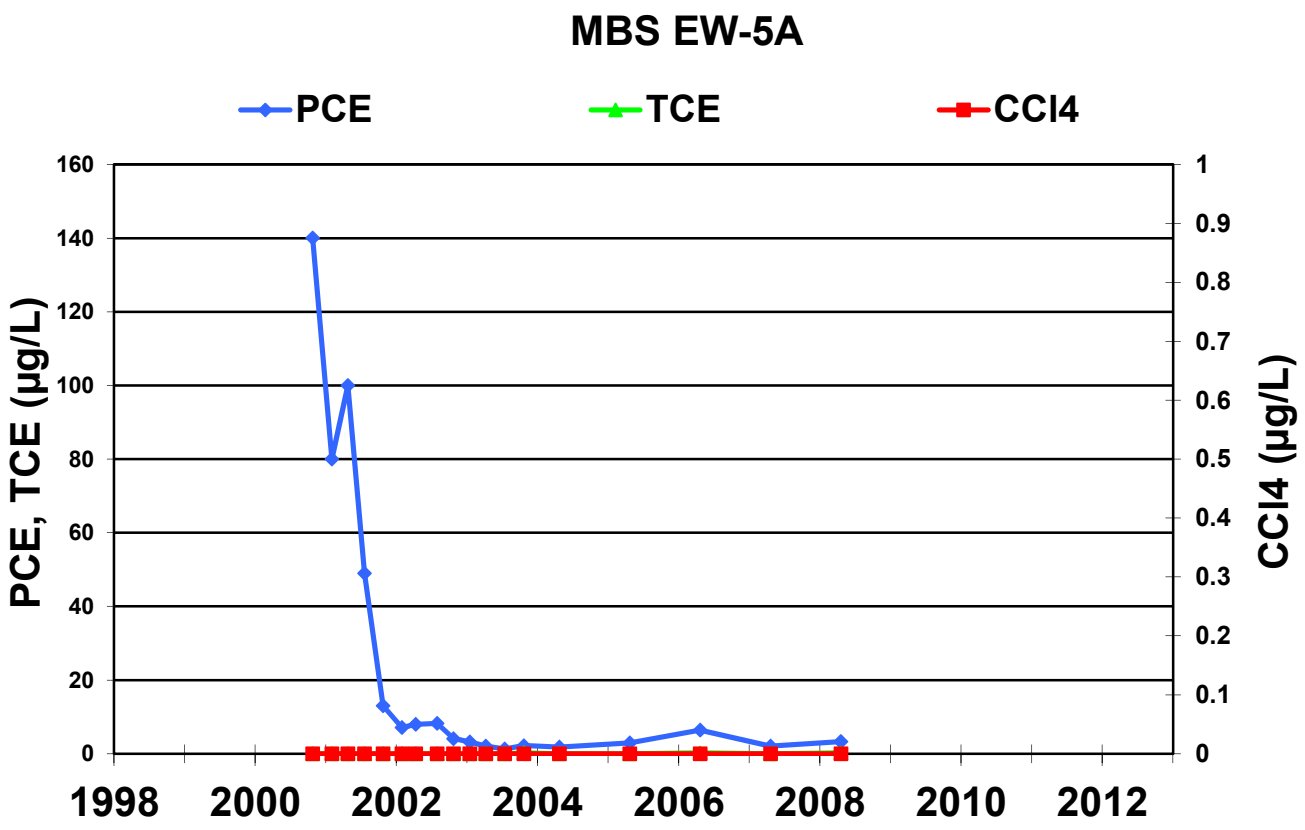

MBS EW-4A
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
180
160
140
120
100
80
60
40
20
0
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

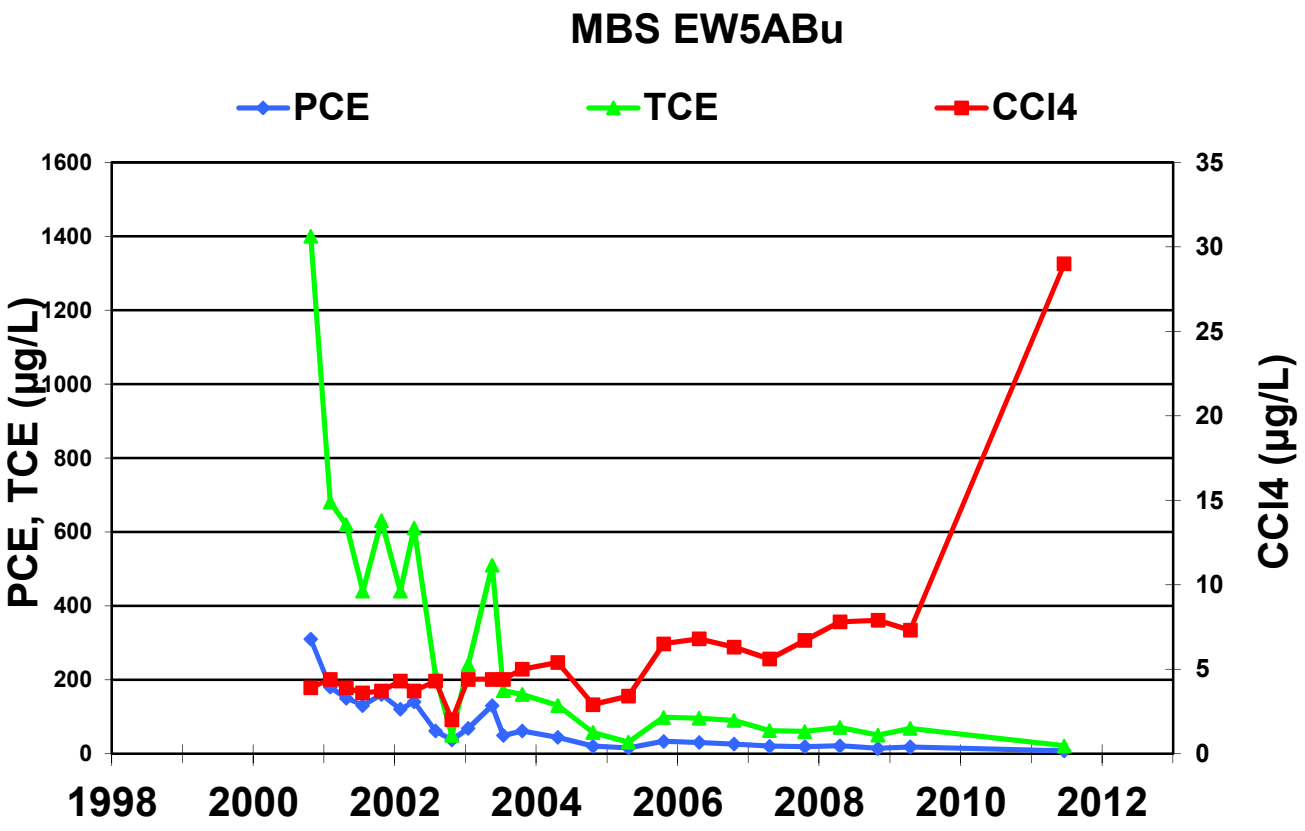

MBS EW4ABu
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
140
120
100
80
60
40
20
0
16
14
12
10
8
6
4
2
0
1998
2000
2002
2004
2006
2008
2010
2012

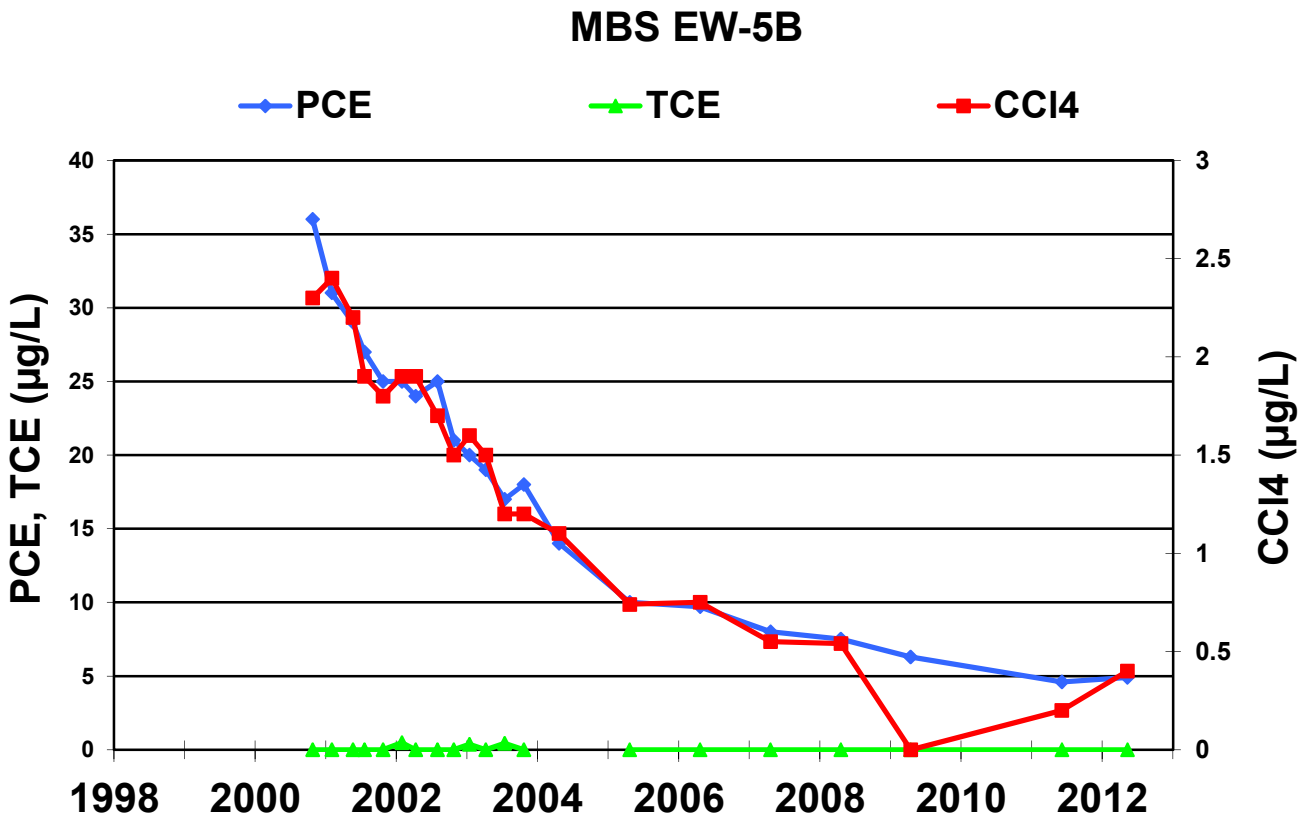

MBS EW-4B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
70
60
50
40
30
20
10
0
3.5
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

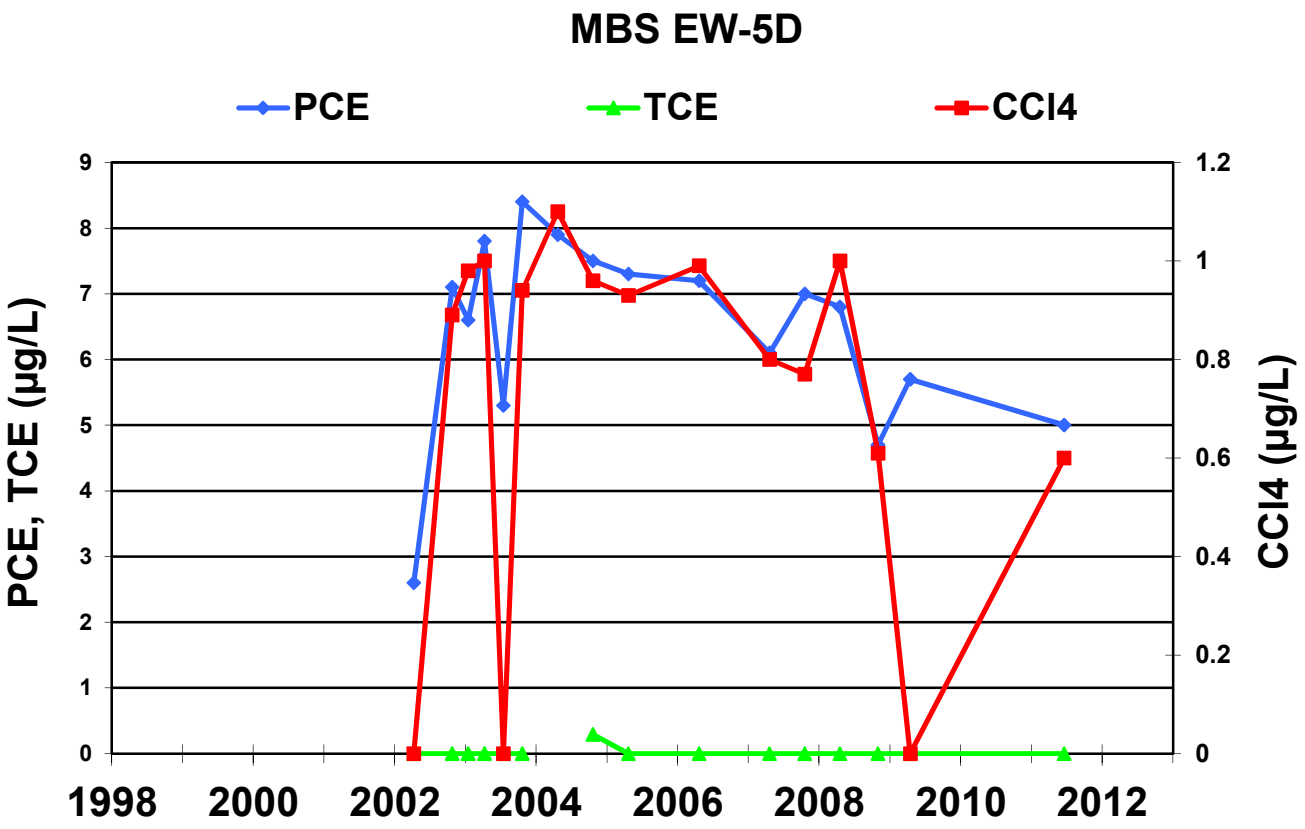

MBS EW-4Bu
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
80
70
60
50
40
30
20
10
0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

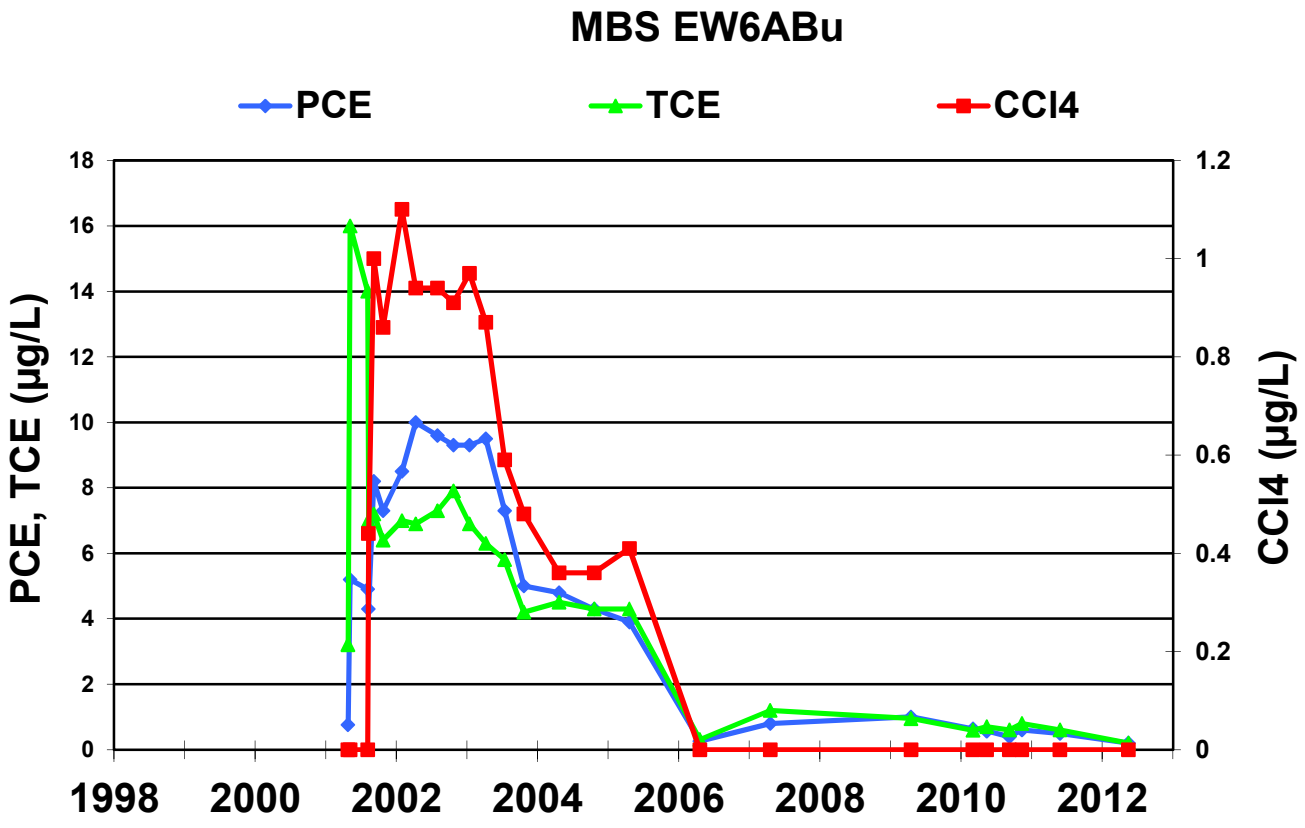

MBS EW-4D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
300
250
200
150
100
50
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

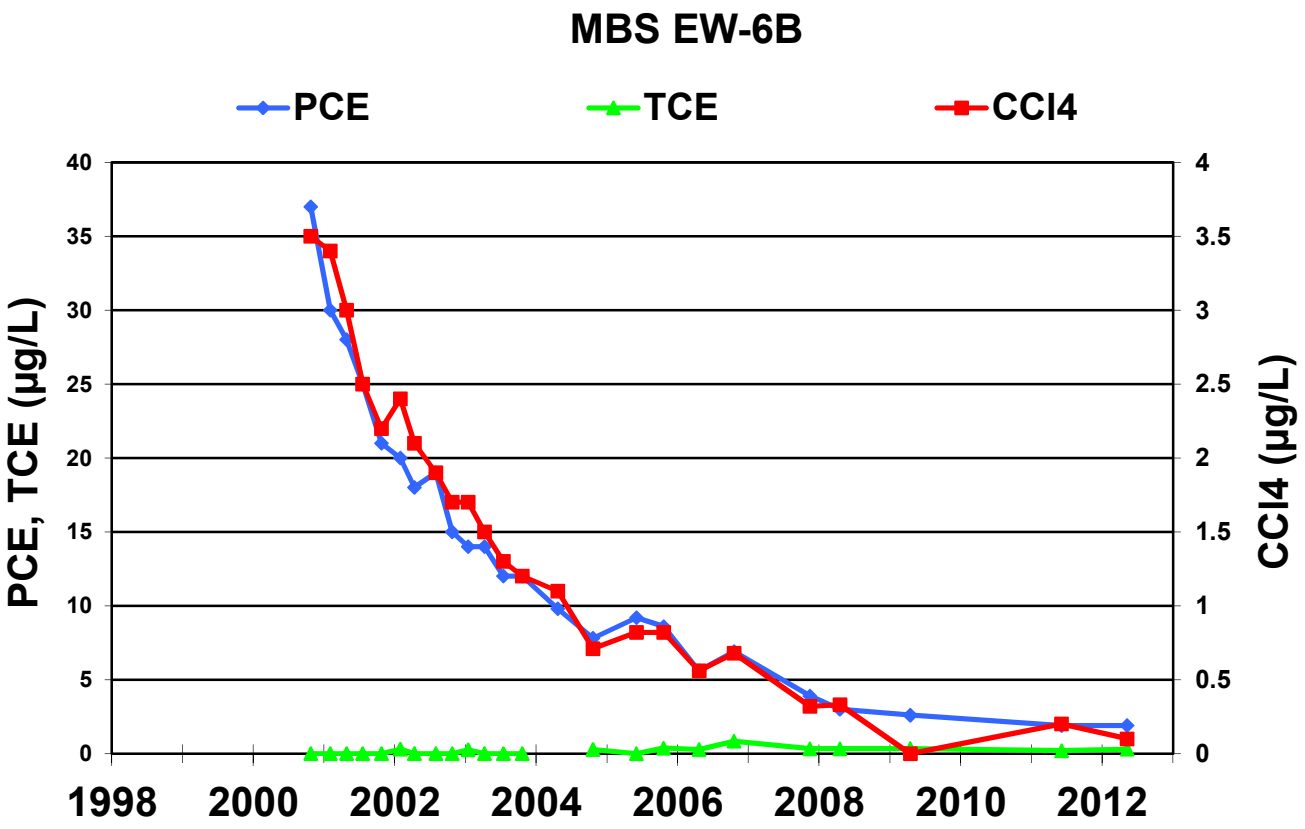

MBS EW-5A
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
160
140
120
100
80
60
40
20
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

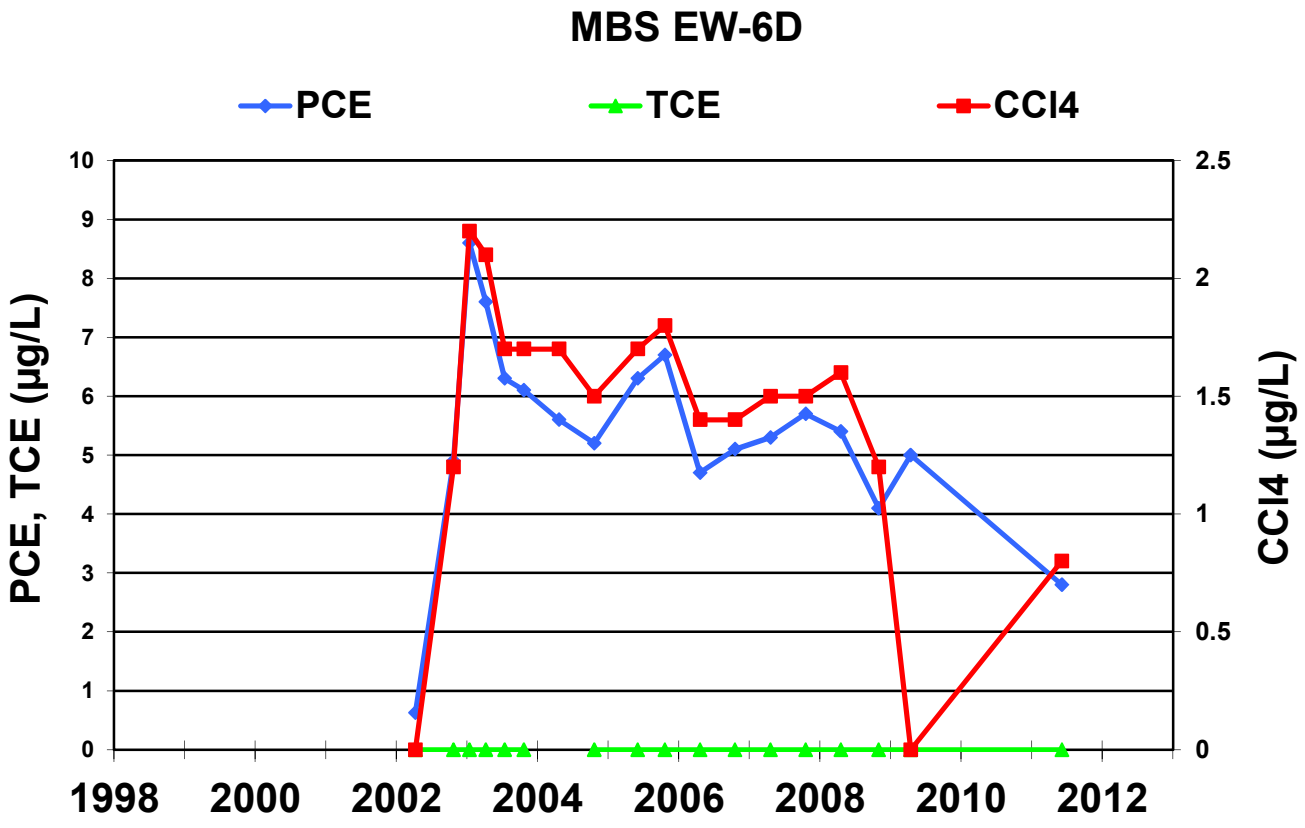

MBS EW5ABu
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1600
1400
1200
1000
800
600
400
200
0
35
30
25
20
15
10
5
0
1998
2000
2002
2004
2006
2008
2010
2012

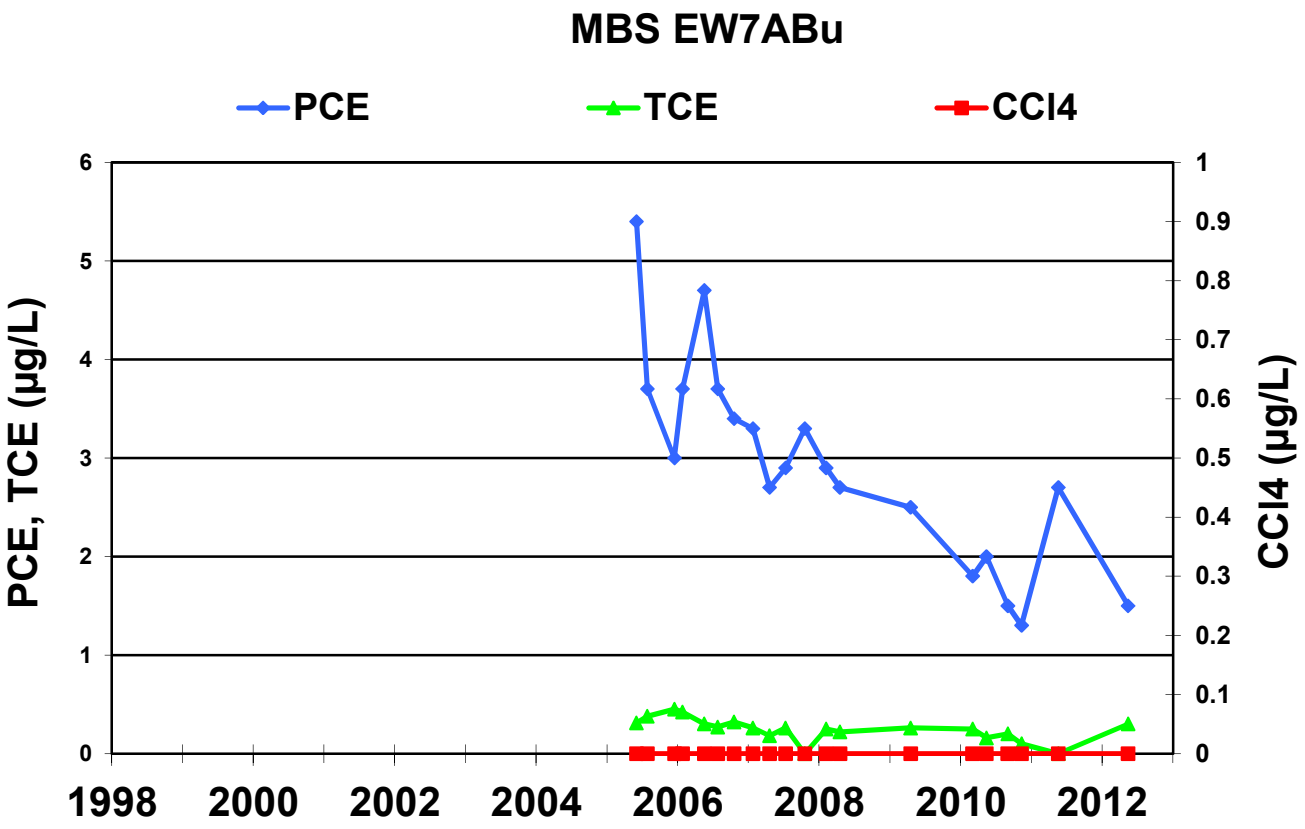

MBS EW-5B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
40
35
30
25
20
15
10
5
0
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

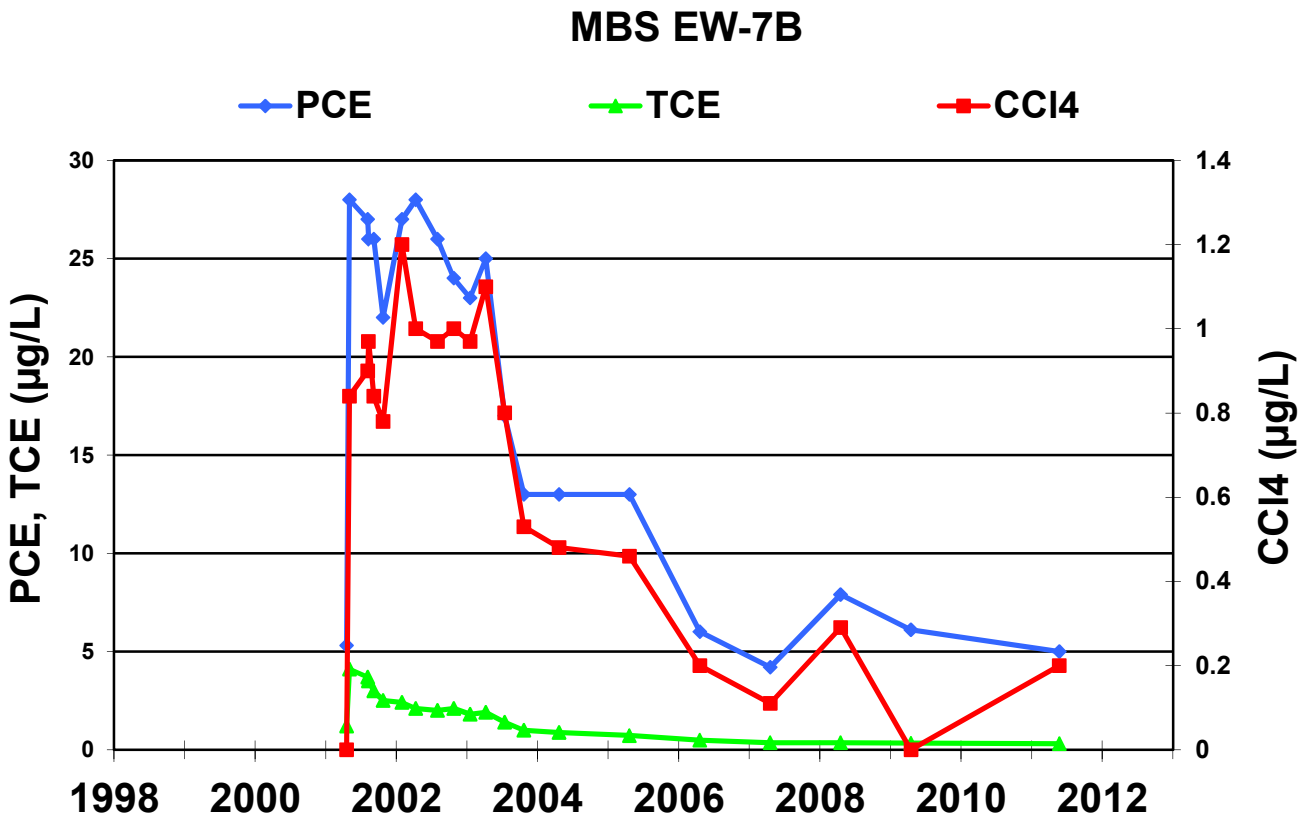

MBS EW-5D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
1
2
3
4
5
6
7
8
9
0
0.2
0.4
0.6
0.8
1
1.2
1998
2000
2002
2004
2006
2008
2010
2012

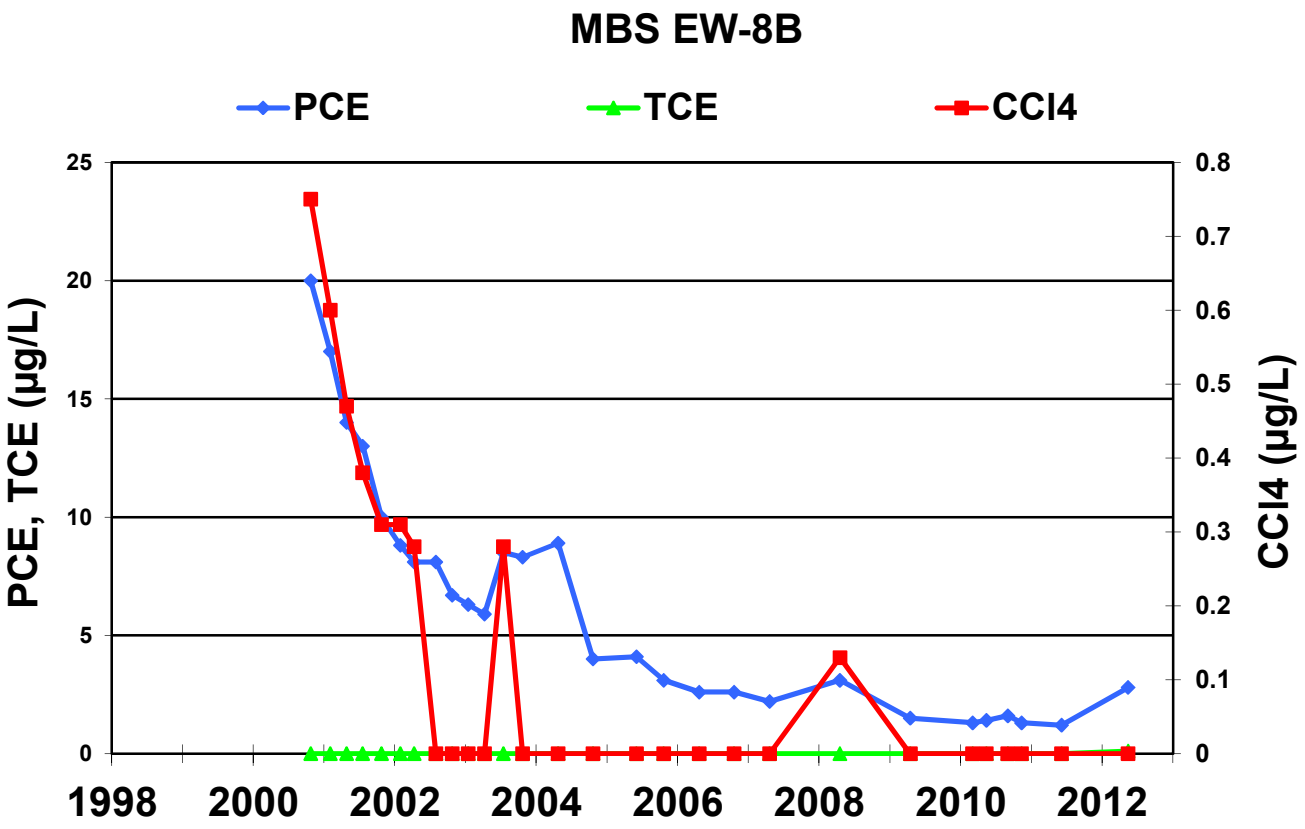

MBS EW6ABu
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
2
4
6
8
10
12
14
16
18
0
0.2
0.4
0.6
0.8
1
1.2
1998
2000
2002
2004
2006
2008
2010
2012

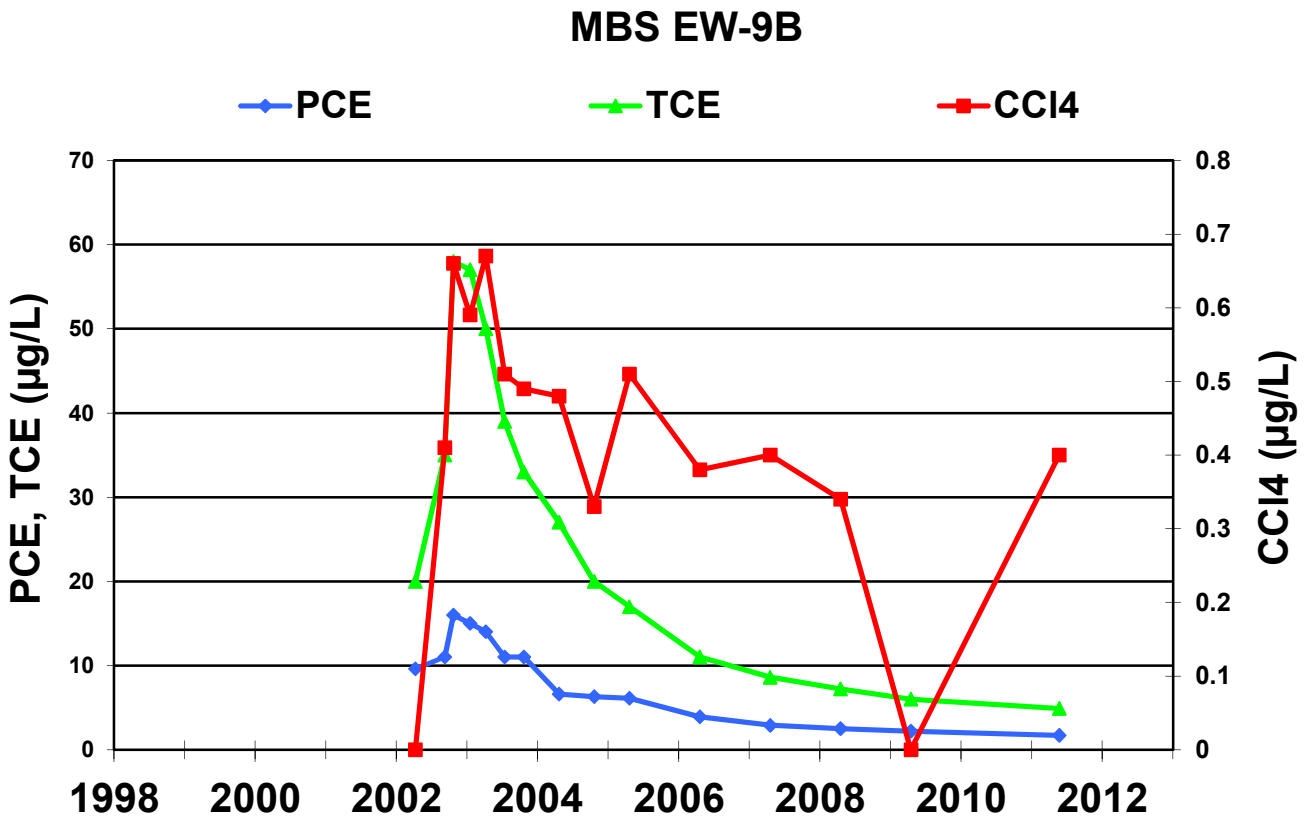

MBS EW-6B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
40
35
30
25
20
15
10
5
0
4
3.5
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

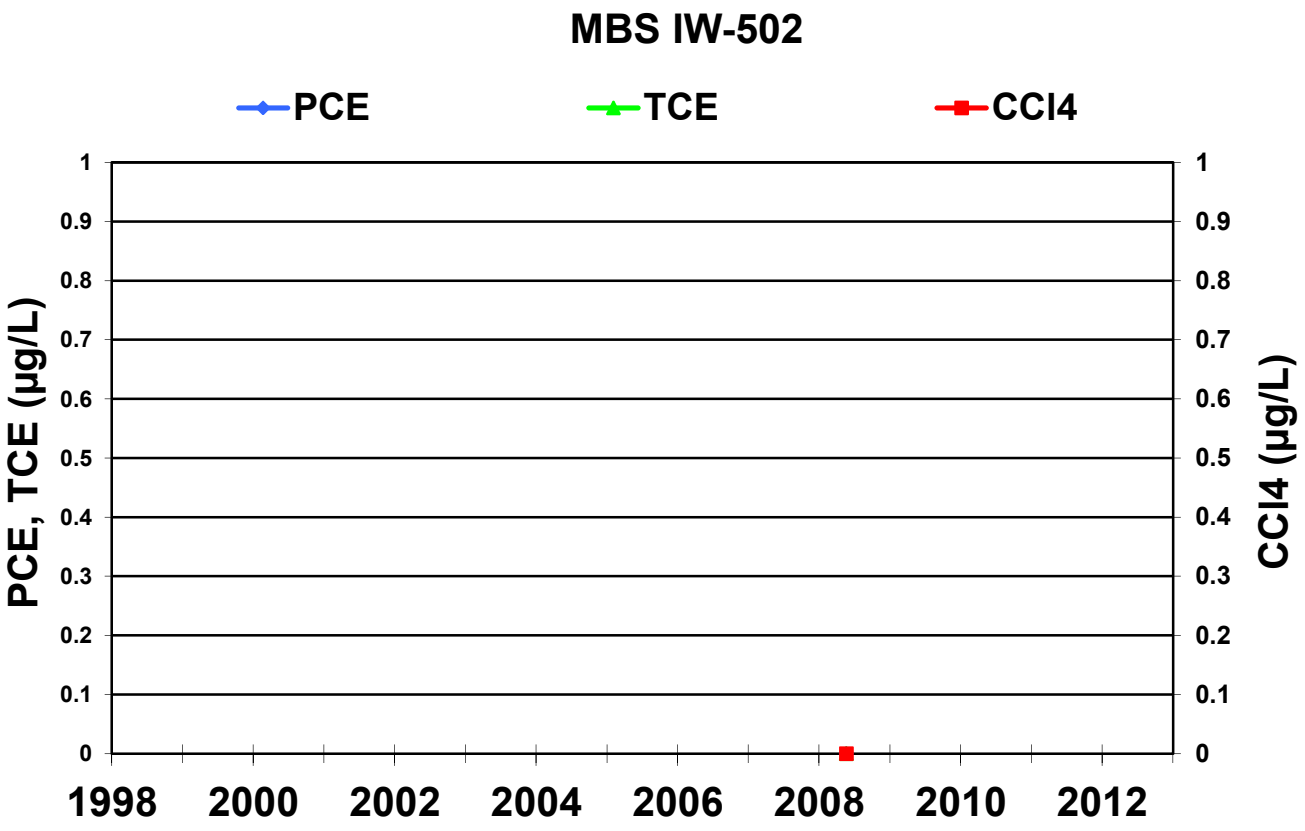

MBS EW-6D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
10
9
8
7
6
5
4
3
2
1
0
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

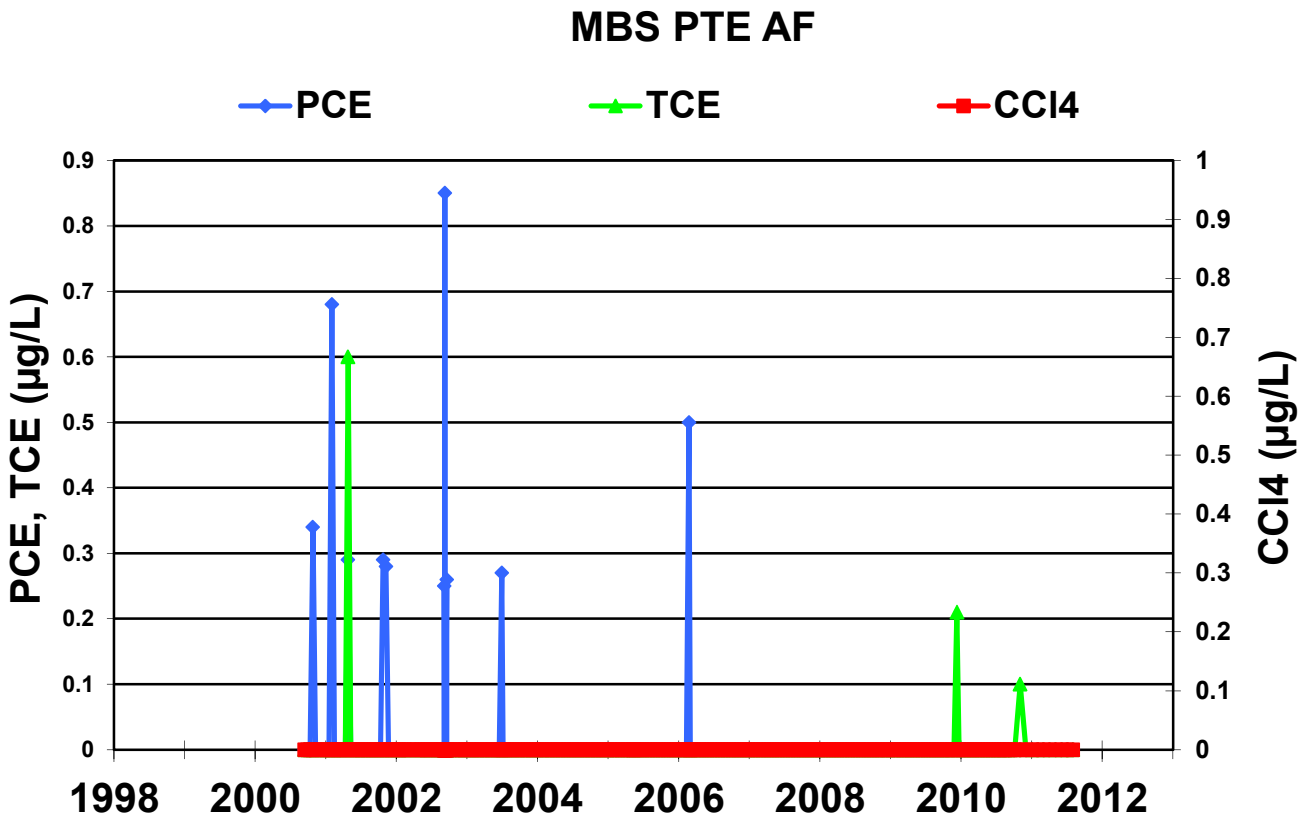

MBS EW7ABu
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
1
2
3
4
5
6
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1998
2000
2002
2004
2006
2008
2010
2012

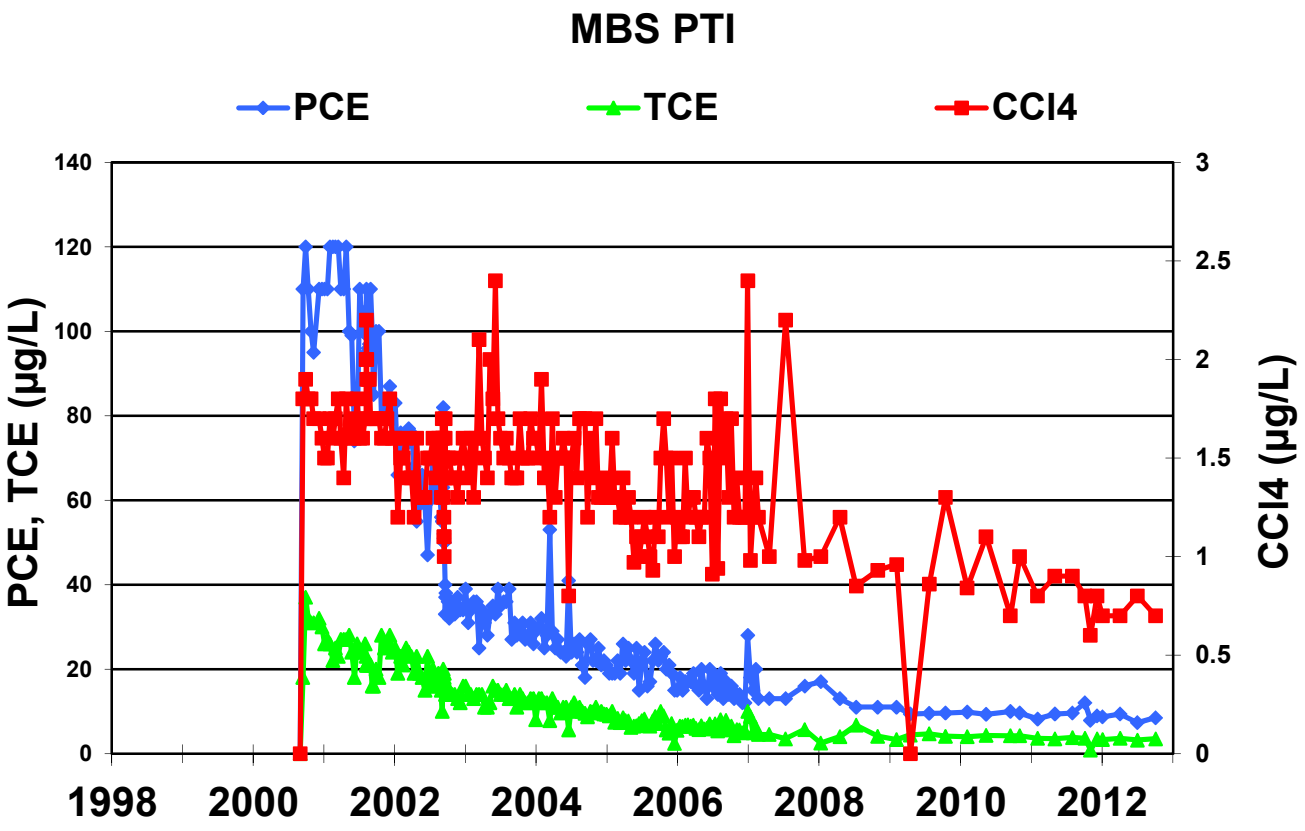

MBS EW-7B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
5
10
15
20
25
30
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1998
2000
2002
2004
2006
2008
2010
2012

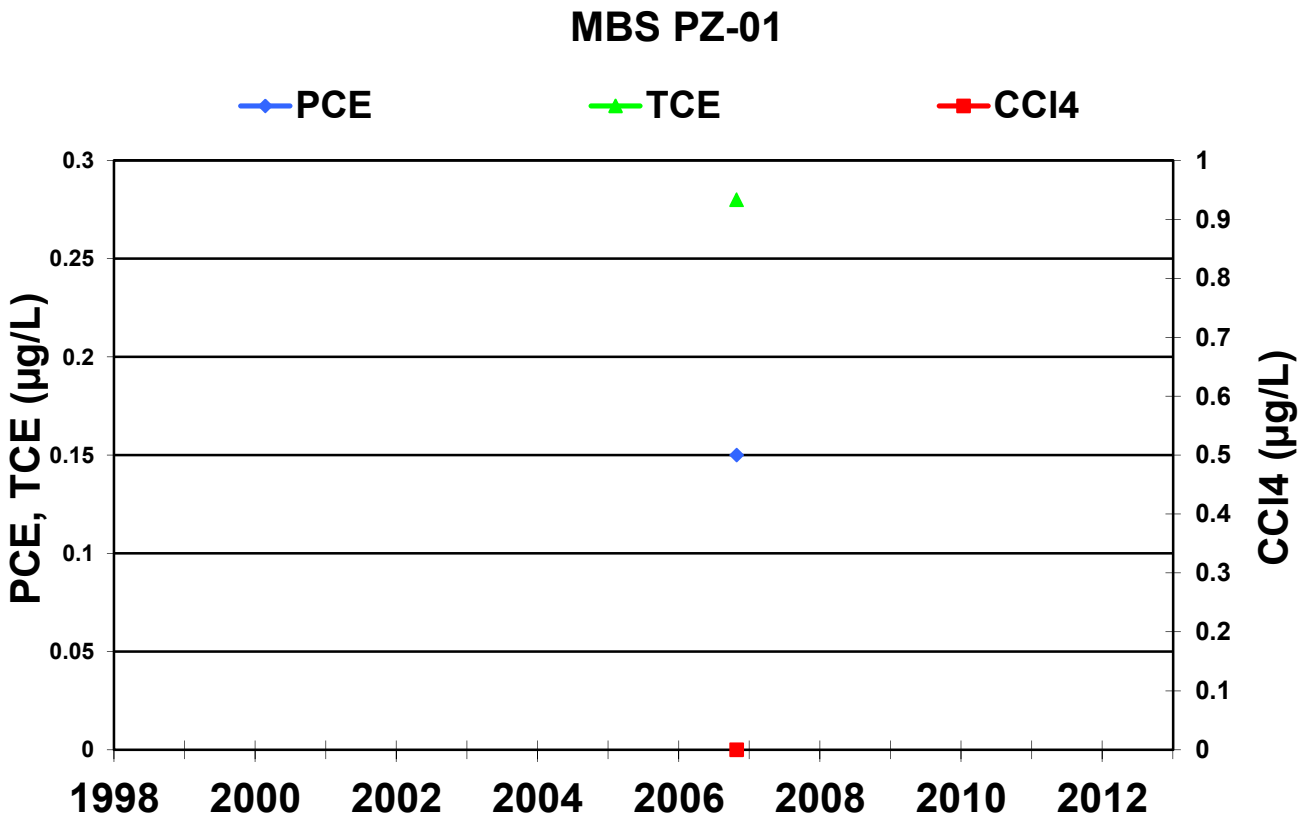

MBS EW-8B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
25
20
15
10
5
0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

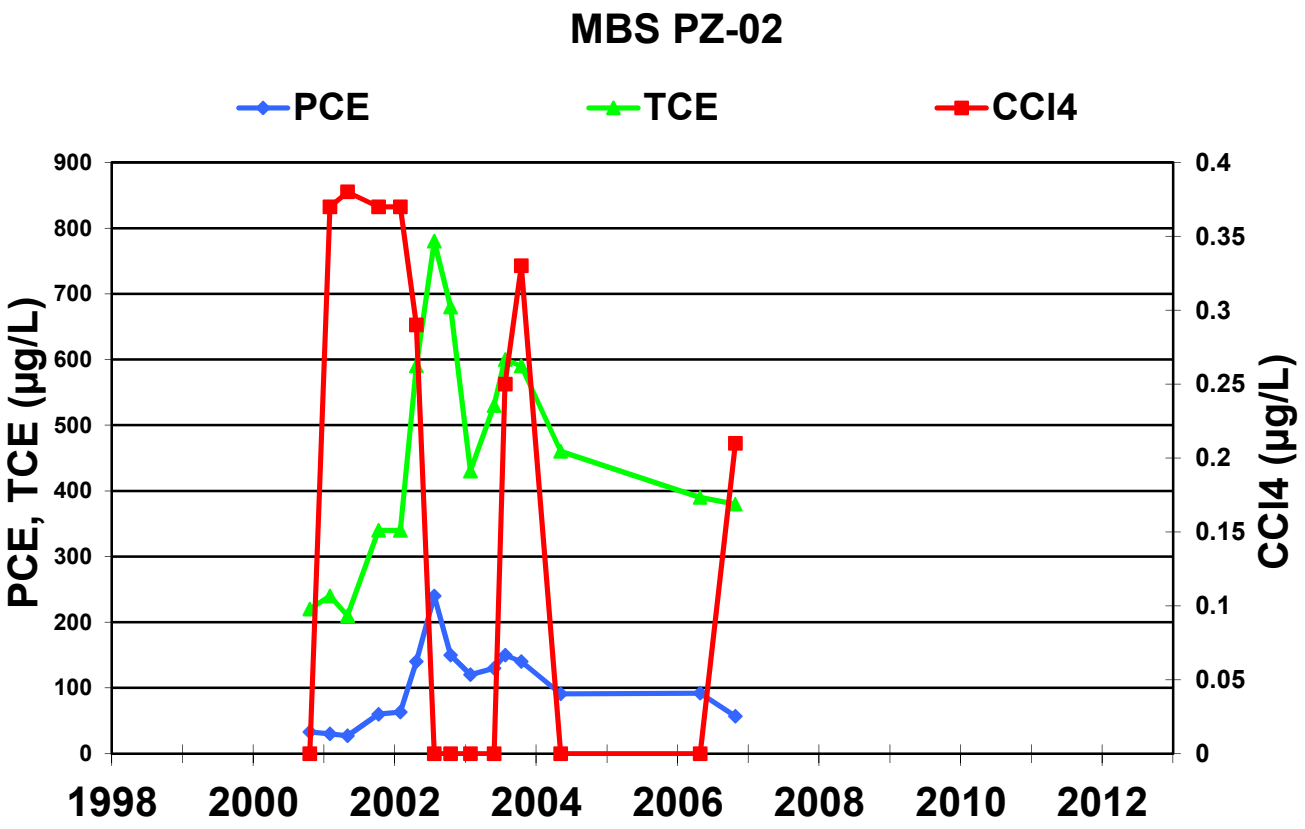

MBS EW-9B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
70
60
50
40
30
20
10
0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

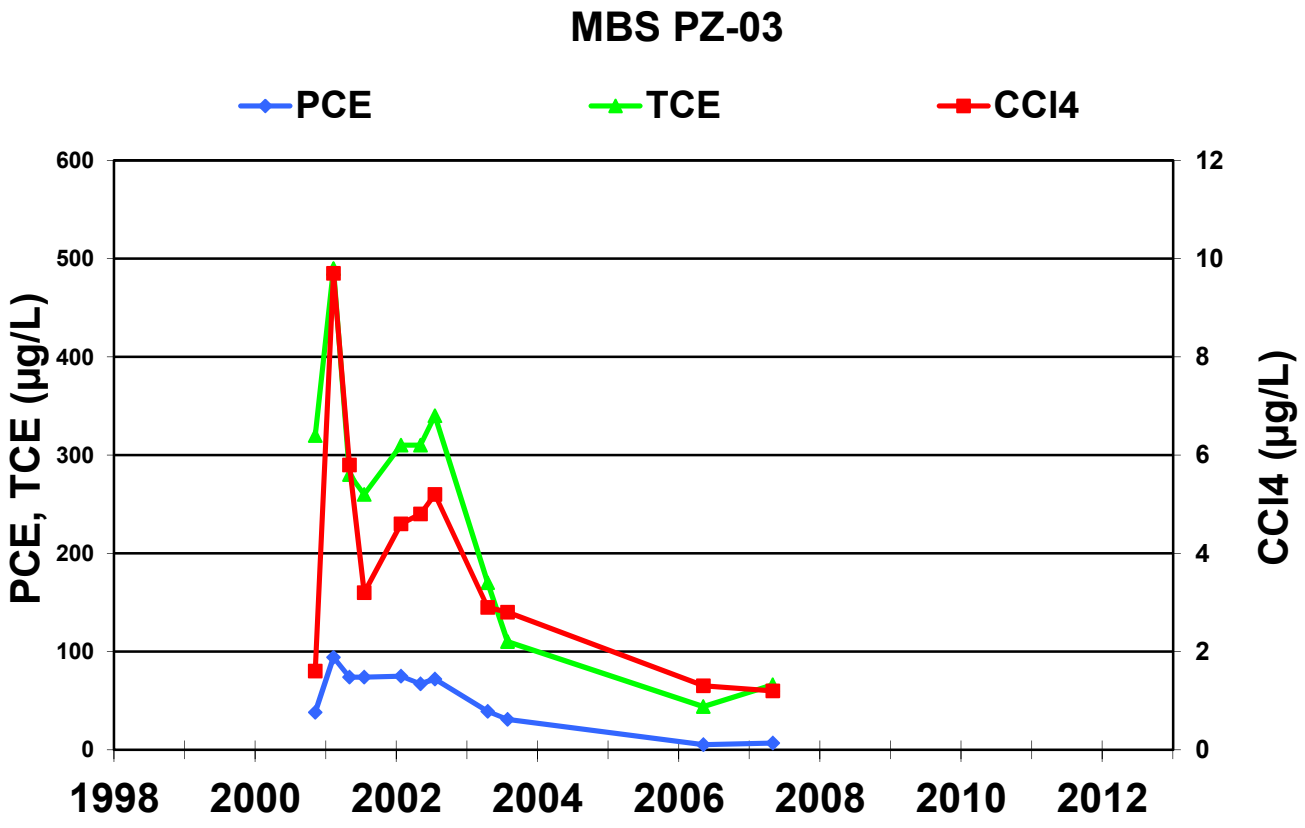

MBS IW-502
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

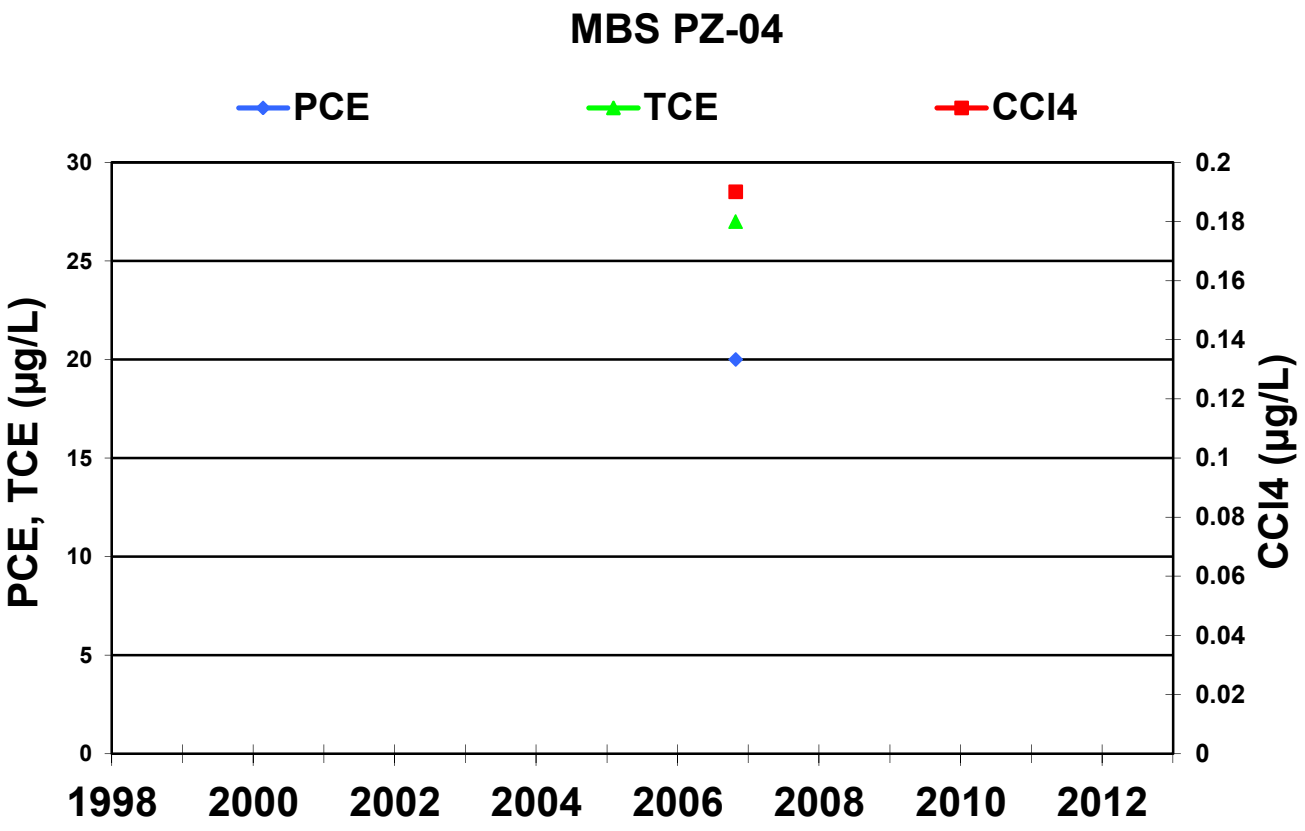

MBS PTE AF
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

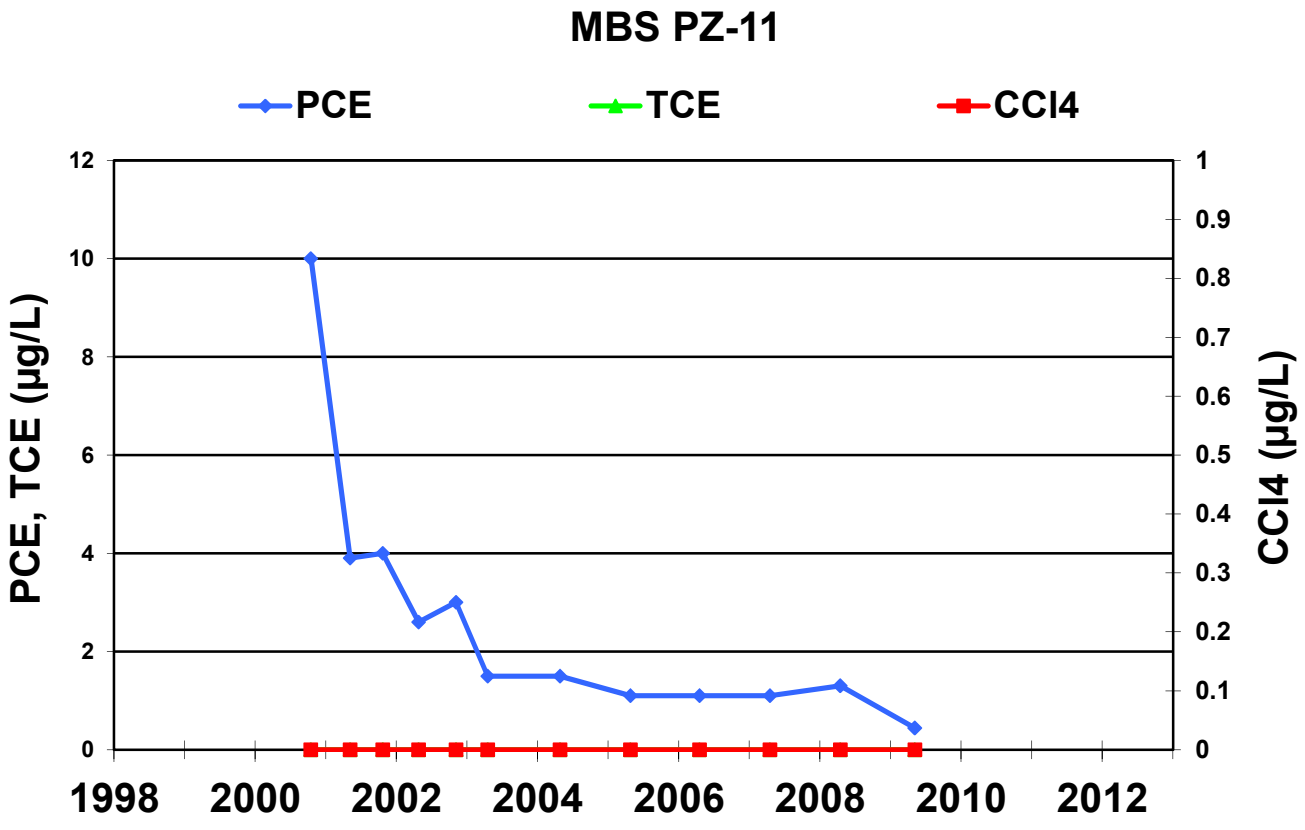

MBS PTI
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
140
120
100
80
60
40
20
0
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

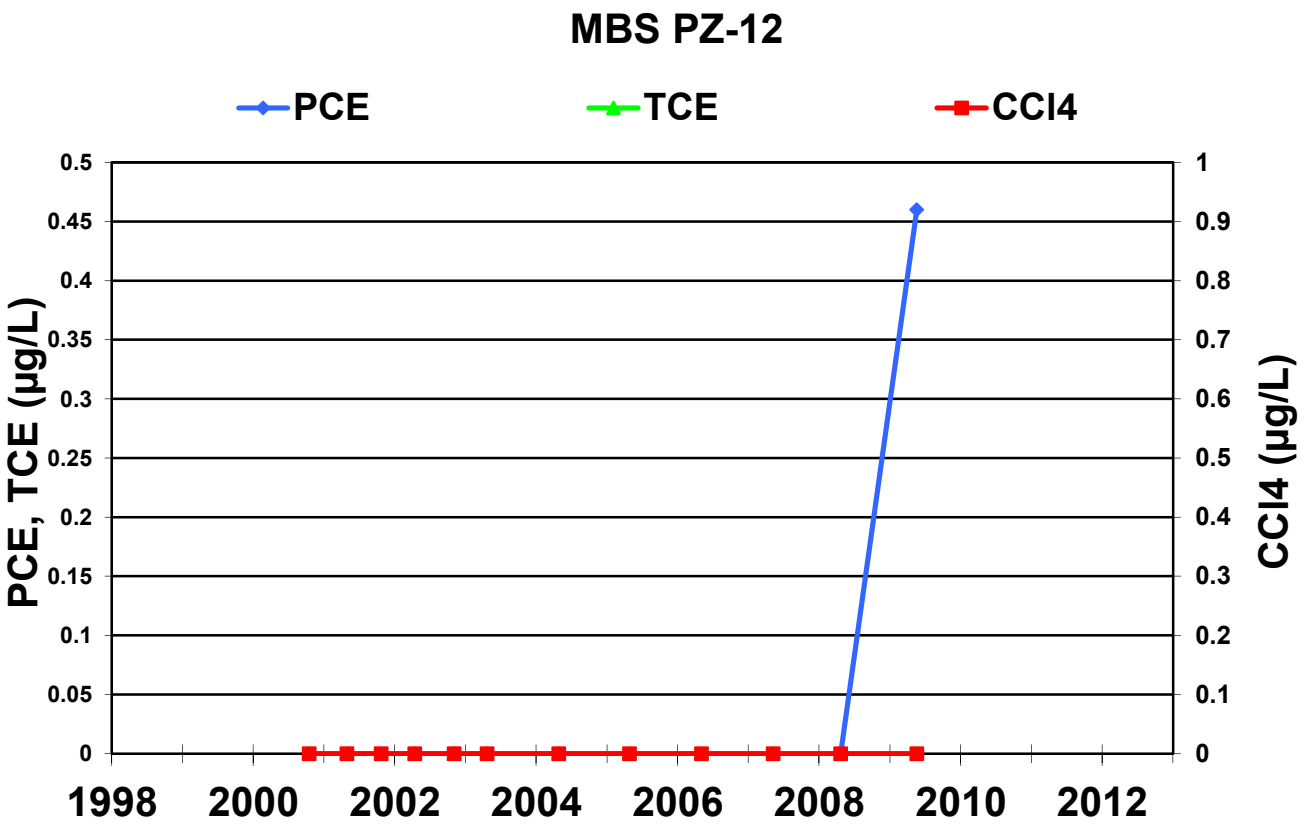

MBS PZ-01
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

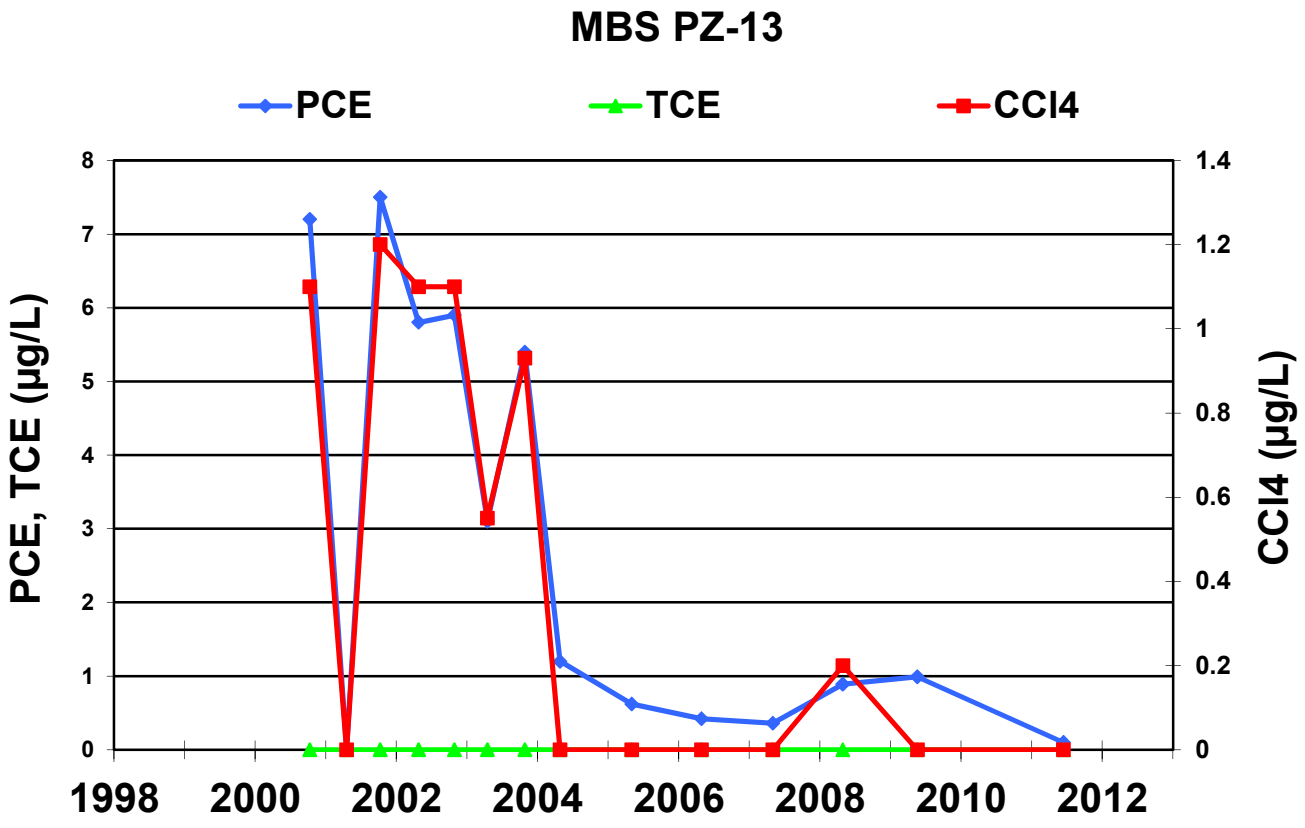

MBS PZ-02
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
900
800
700
600
500
400
300
200
100
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

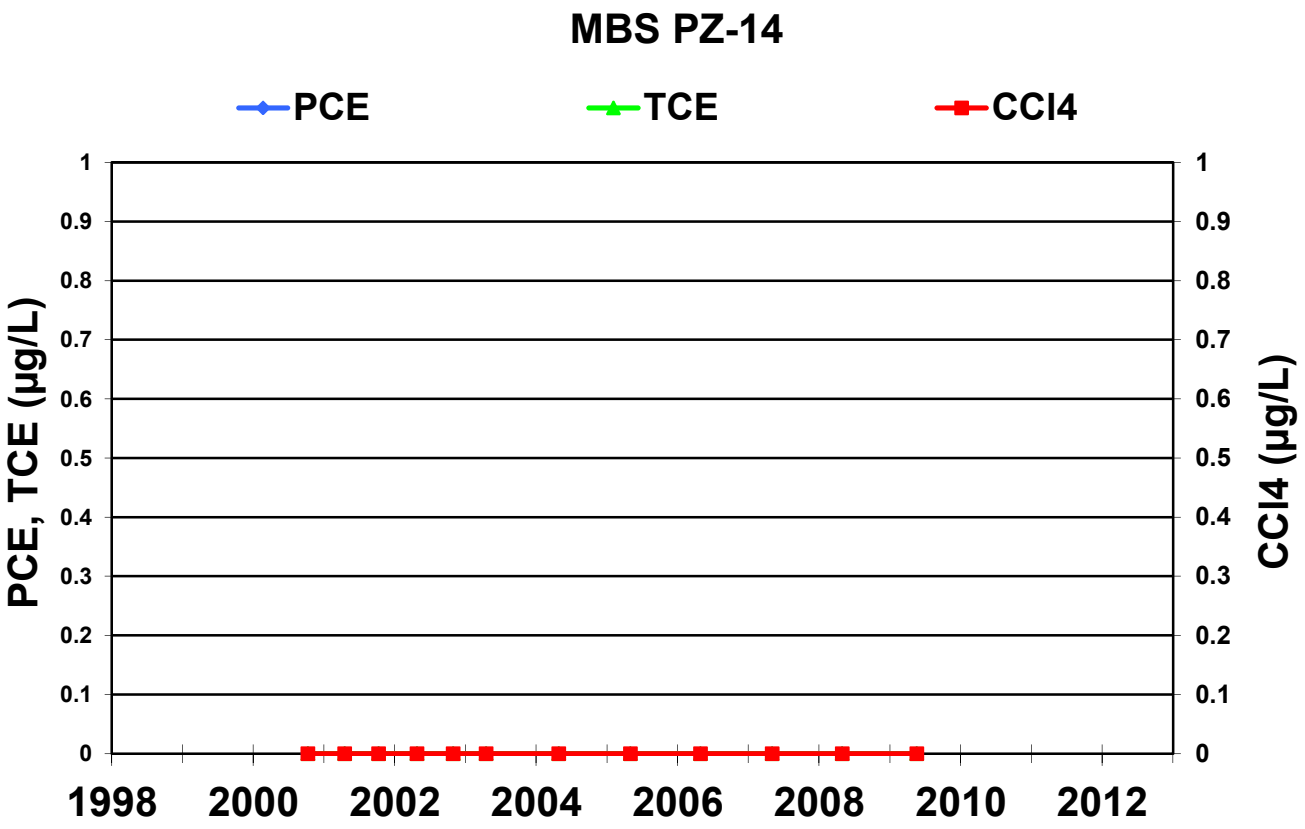

MBS PZ-03
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
600
500
400
300
200
100
0
12
10
8
6
4
2
0
1998
2000
2002
2004
2006
2008
2010
2012

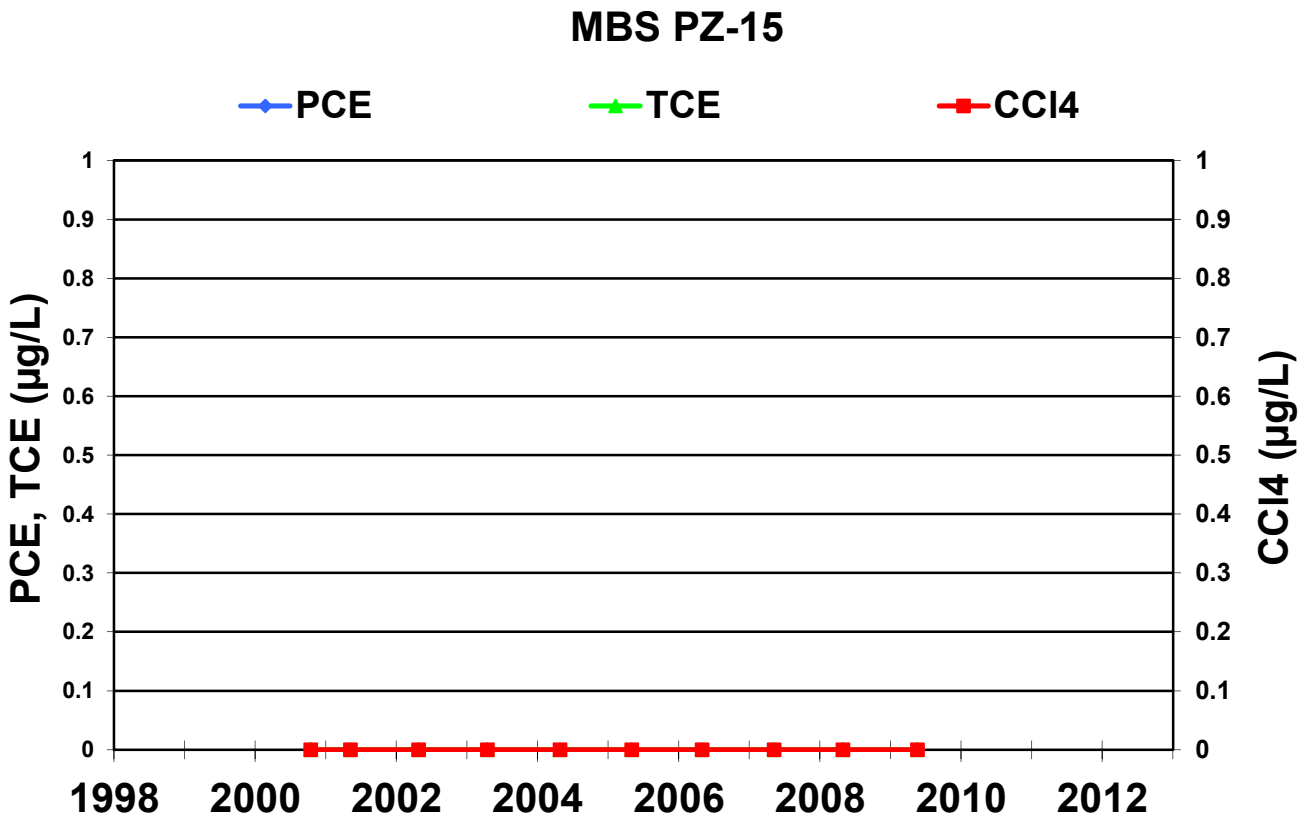

MBS PZ-04
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
30
25
20
15
10
5
0
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1998
2000
2002
2004
2006
2008
2010
2012

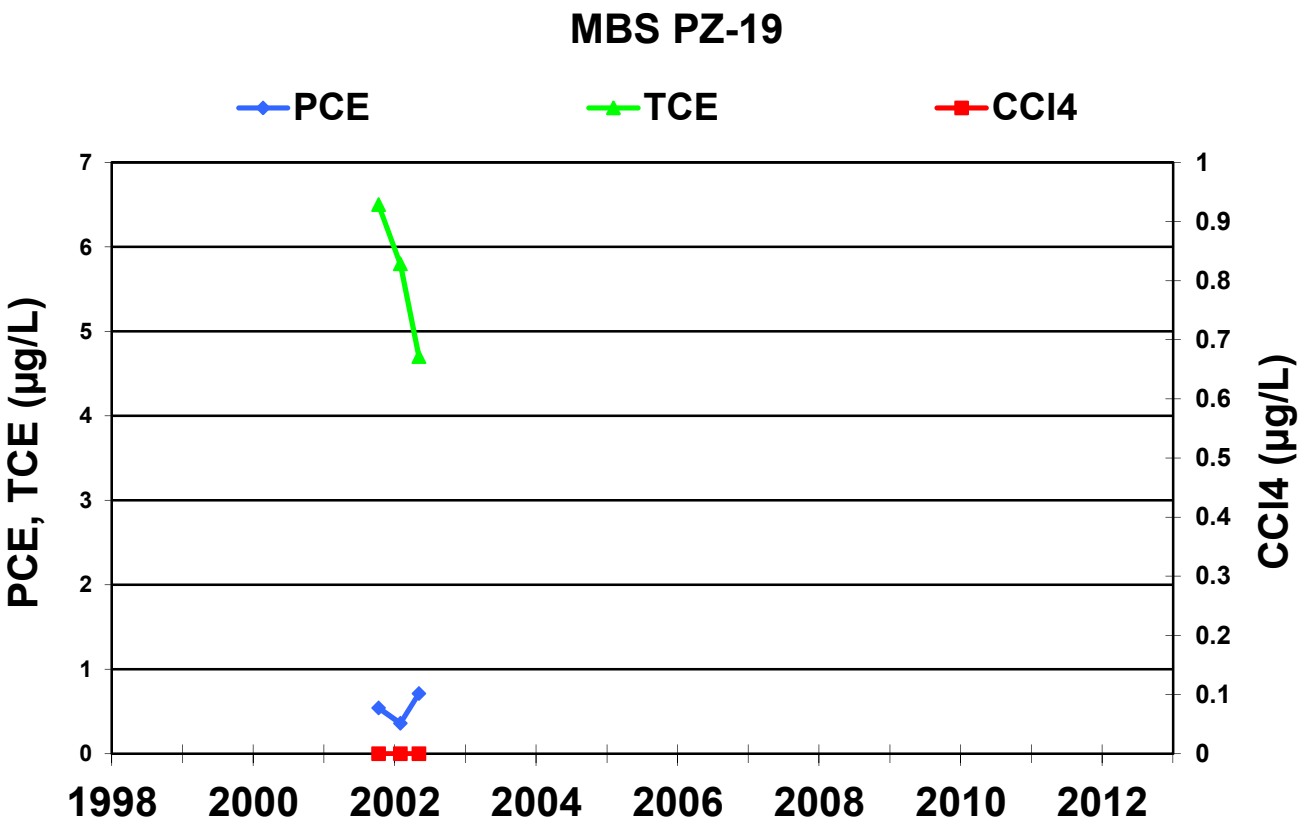

MBS PZ-11
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

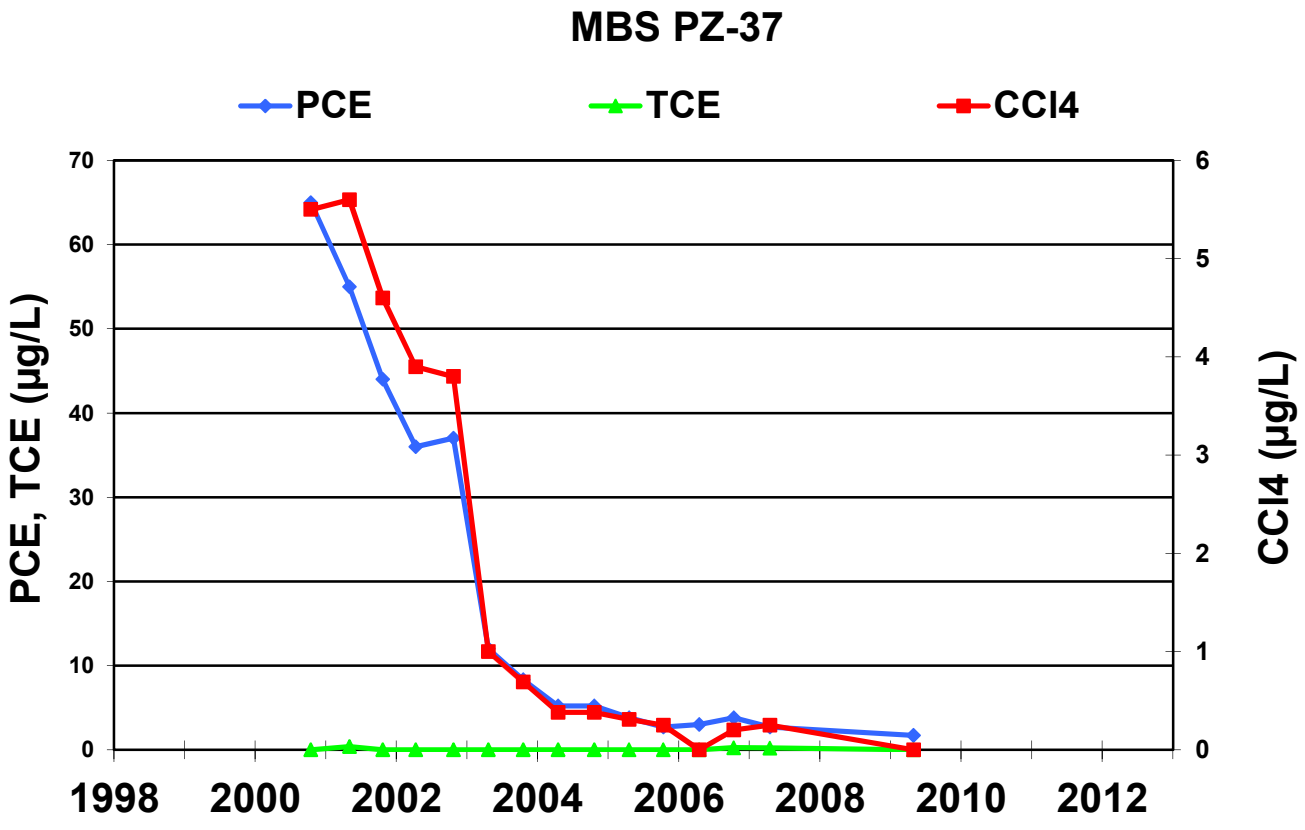

MBS PZ-12
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

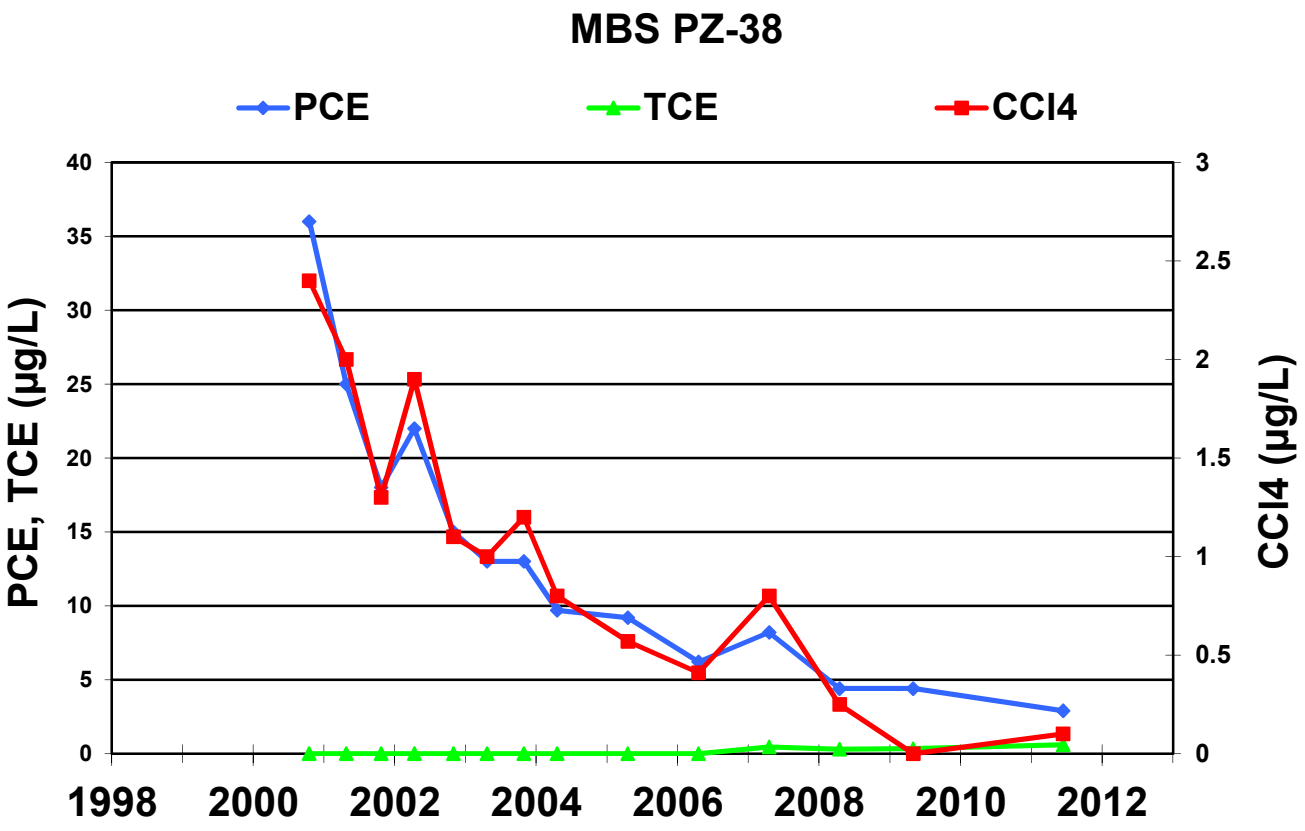

MBS PZ-13
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
8
7
6
5
4
3
2
1
0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

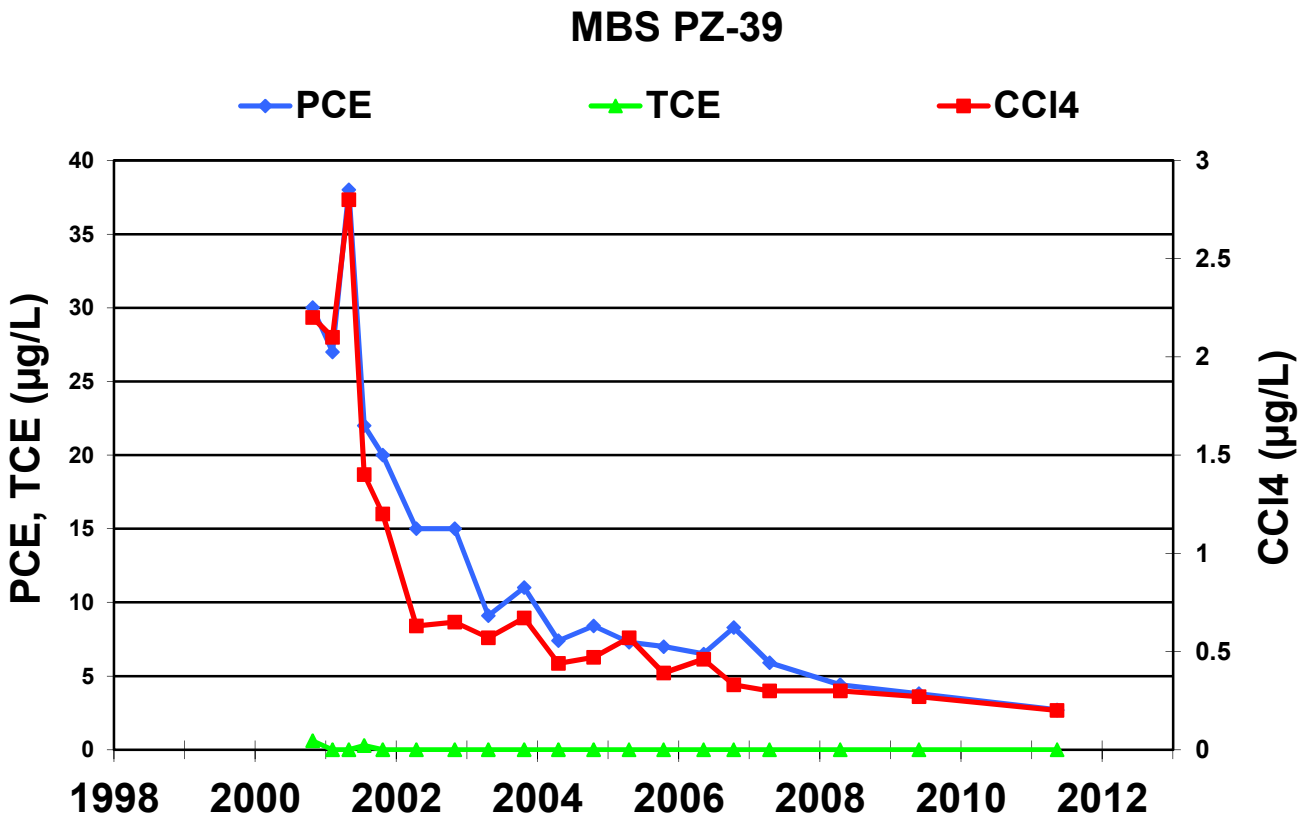

MBS PZ-14
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

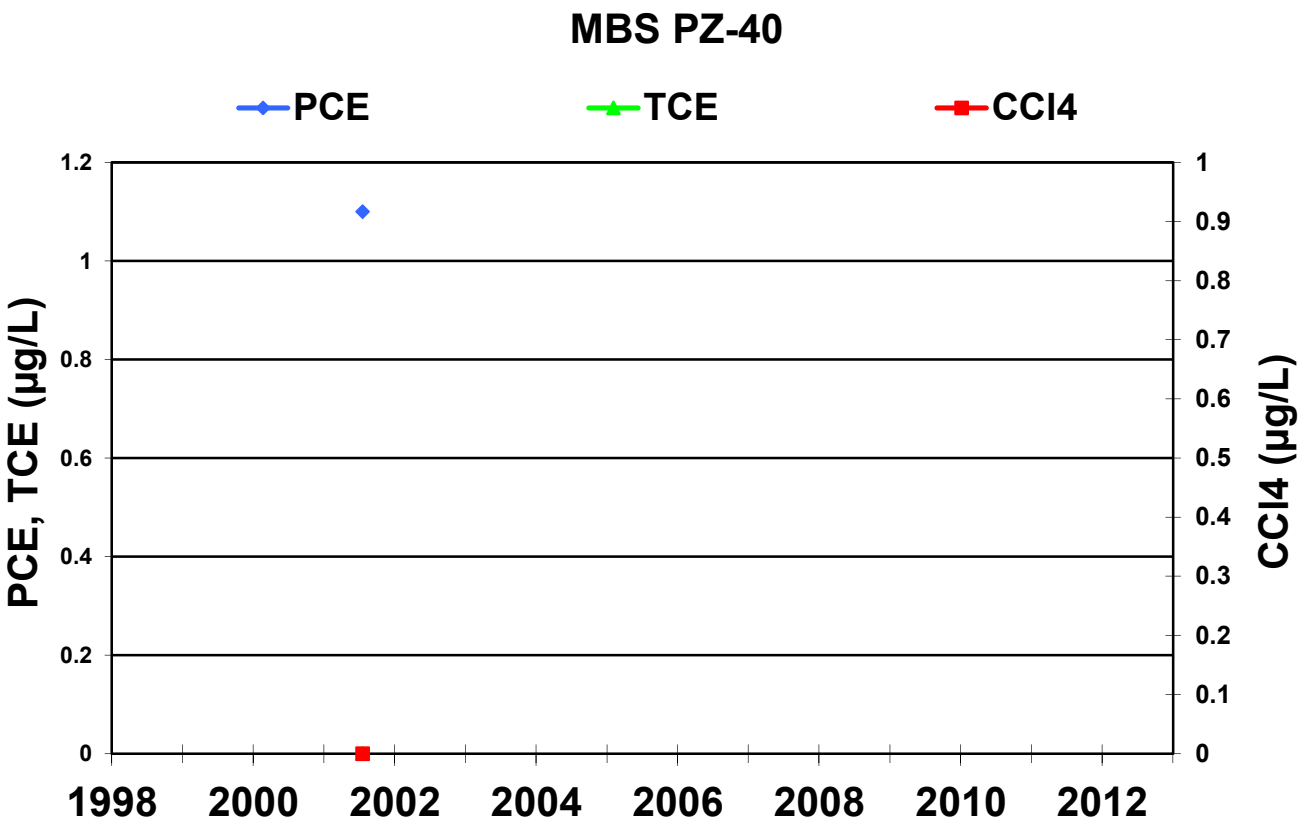

MBS PZ-15
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

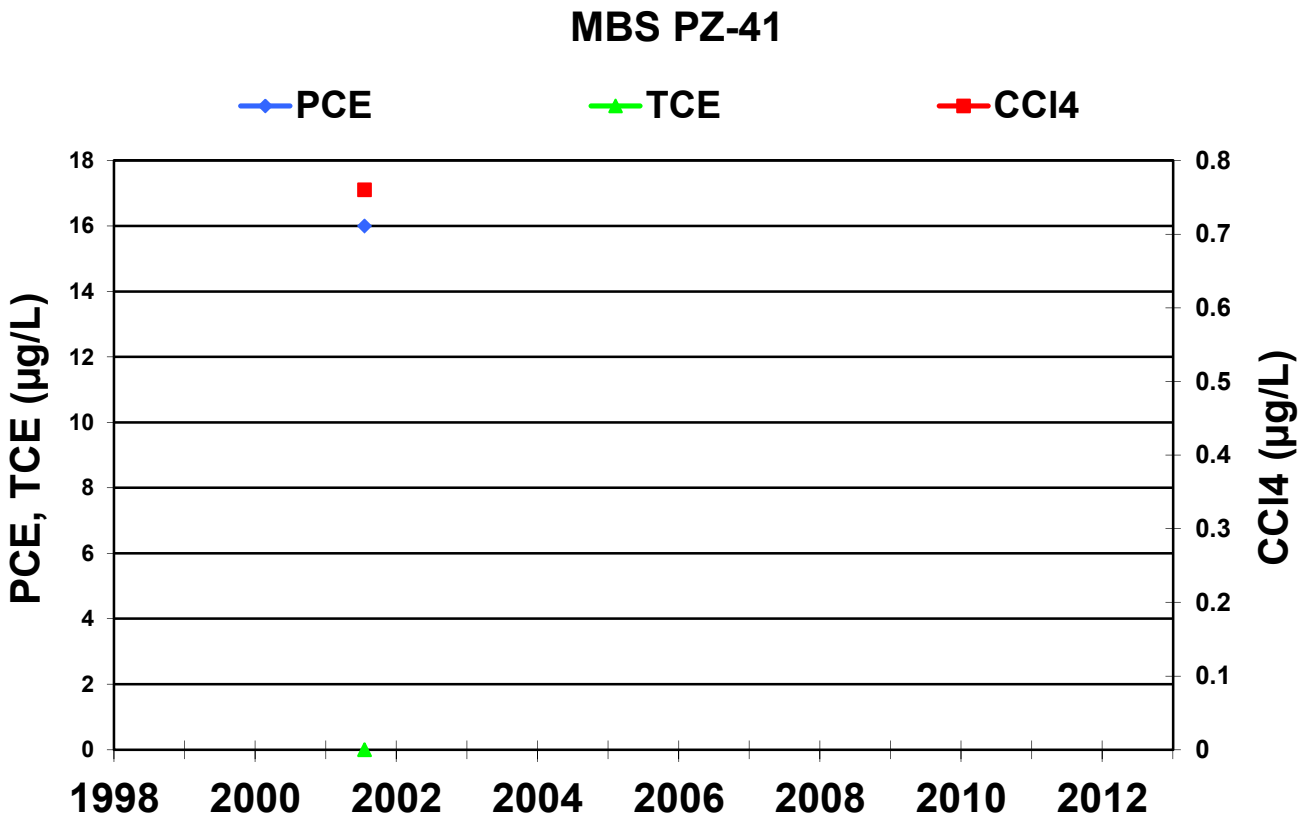

MBS PZ-19
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
1
2
3
4
5
6
7
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1998
2000
2002
2004
2006
2008
2010
2012

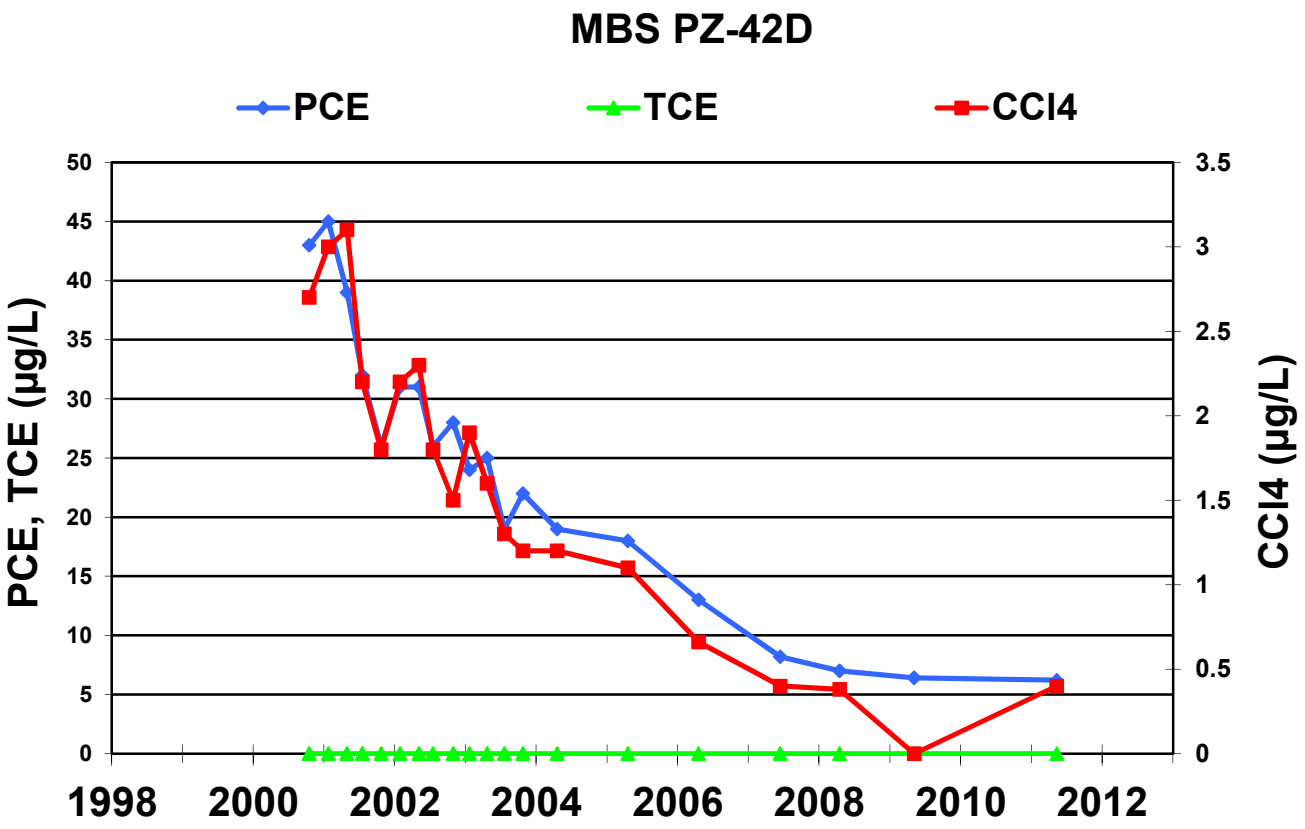

MBS PZ-37
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
10
20
30
40
50
60
70
0
1
2
3
4
5
6
1998
2000
2002
2004
2006
2008
2010
2012

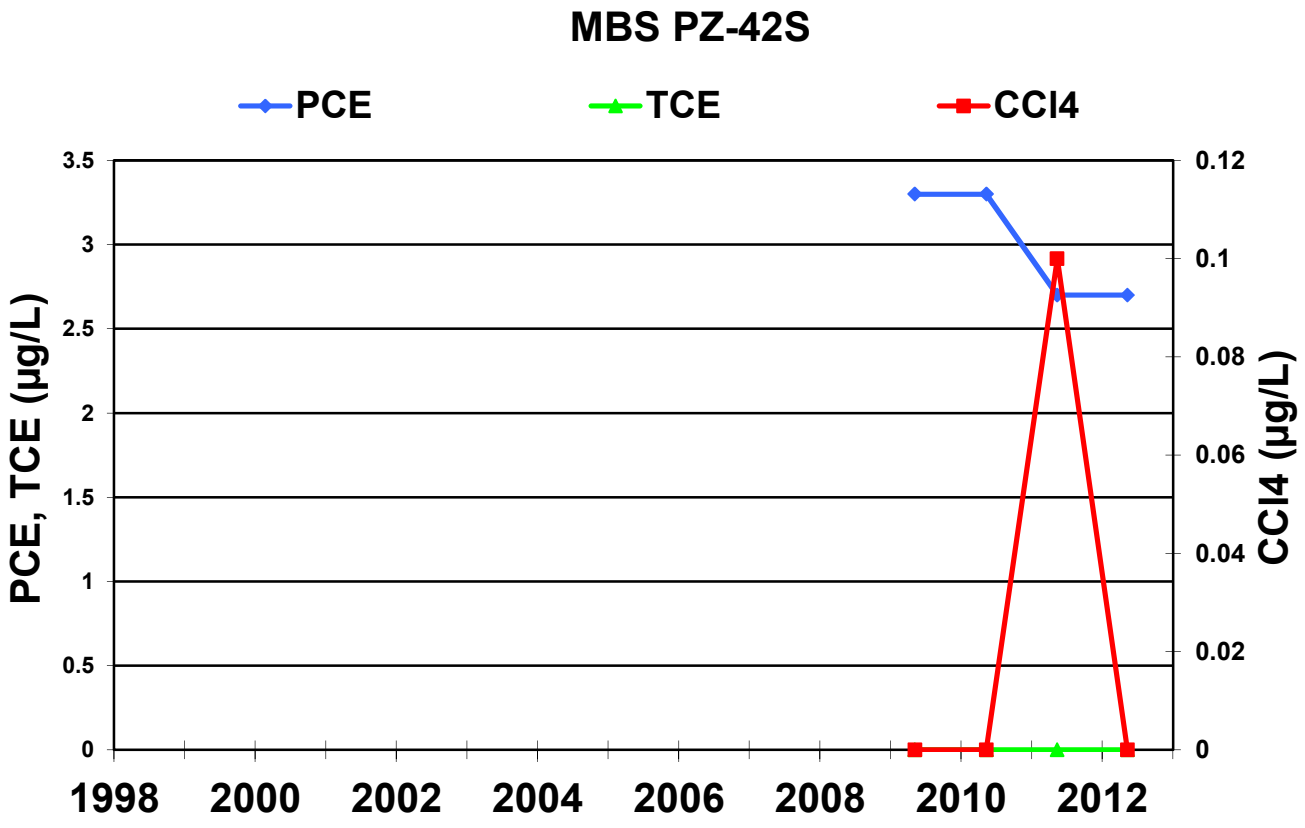

MBS PZ-38
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
40
35
30
25
20
15
10
5
0
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

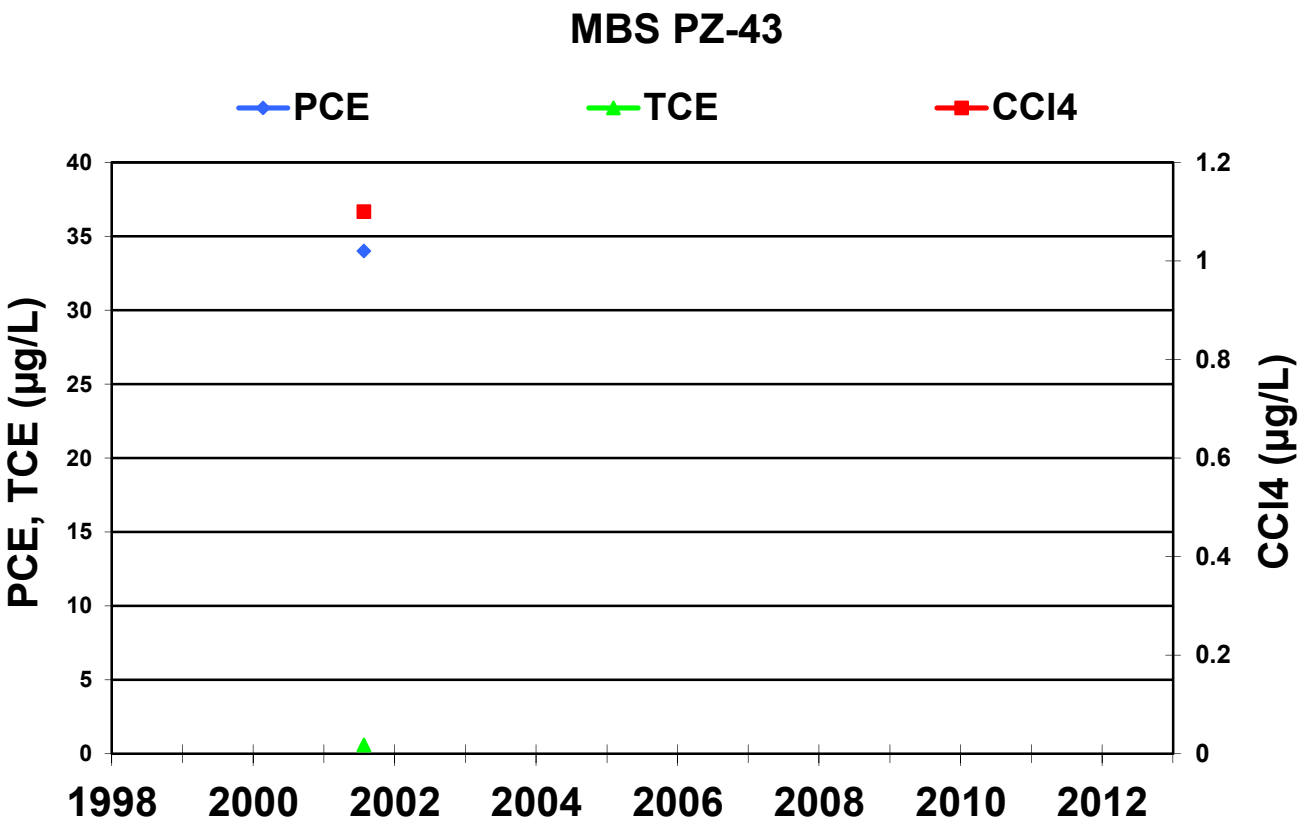

MBS PZ-39
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
40
35
30
25
20
15
10
5
0
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

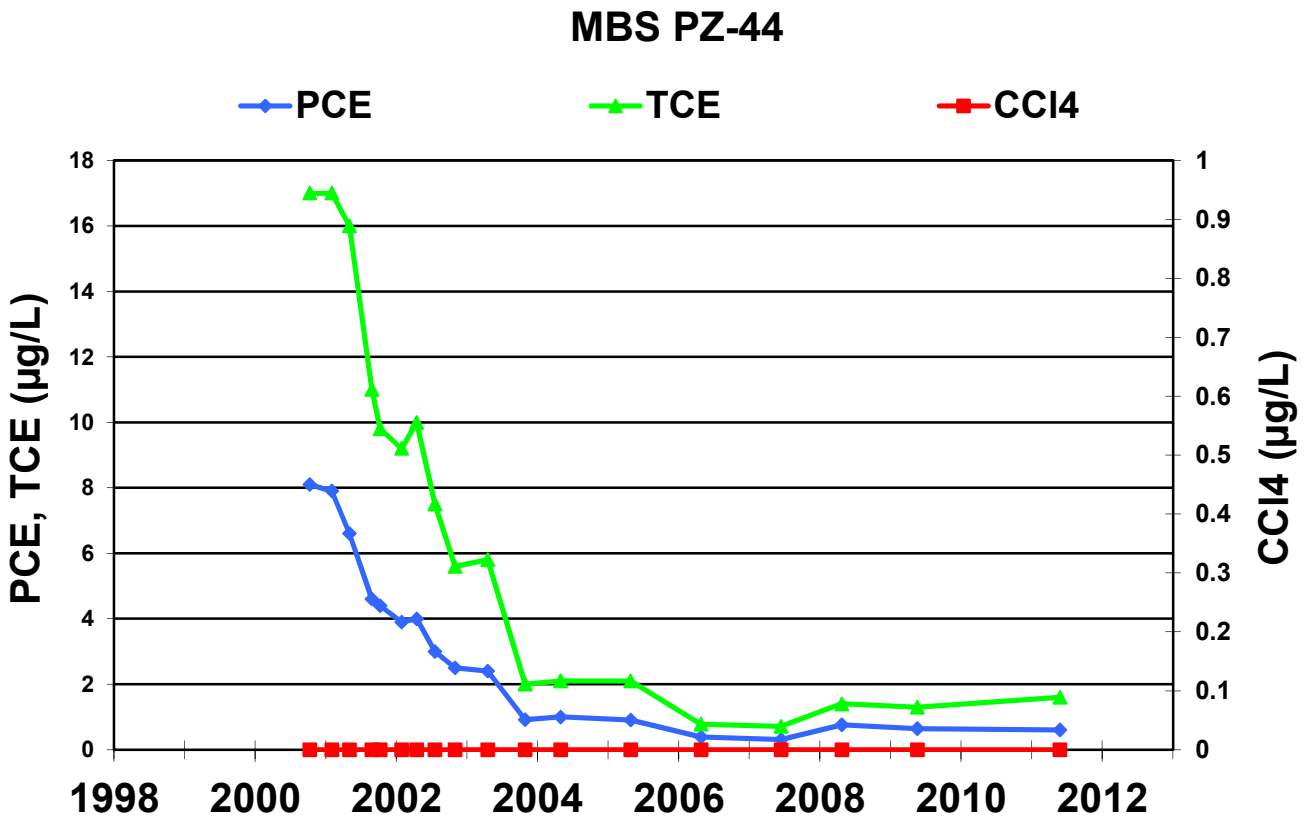

MBS PZ-40
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

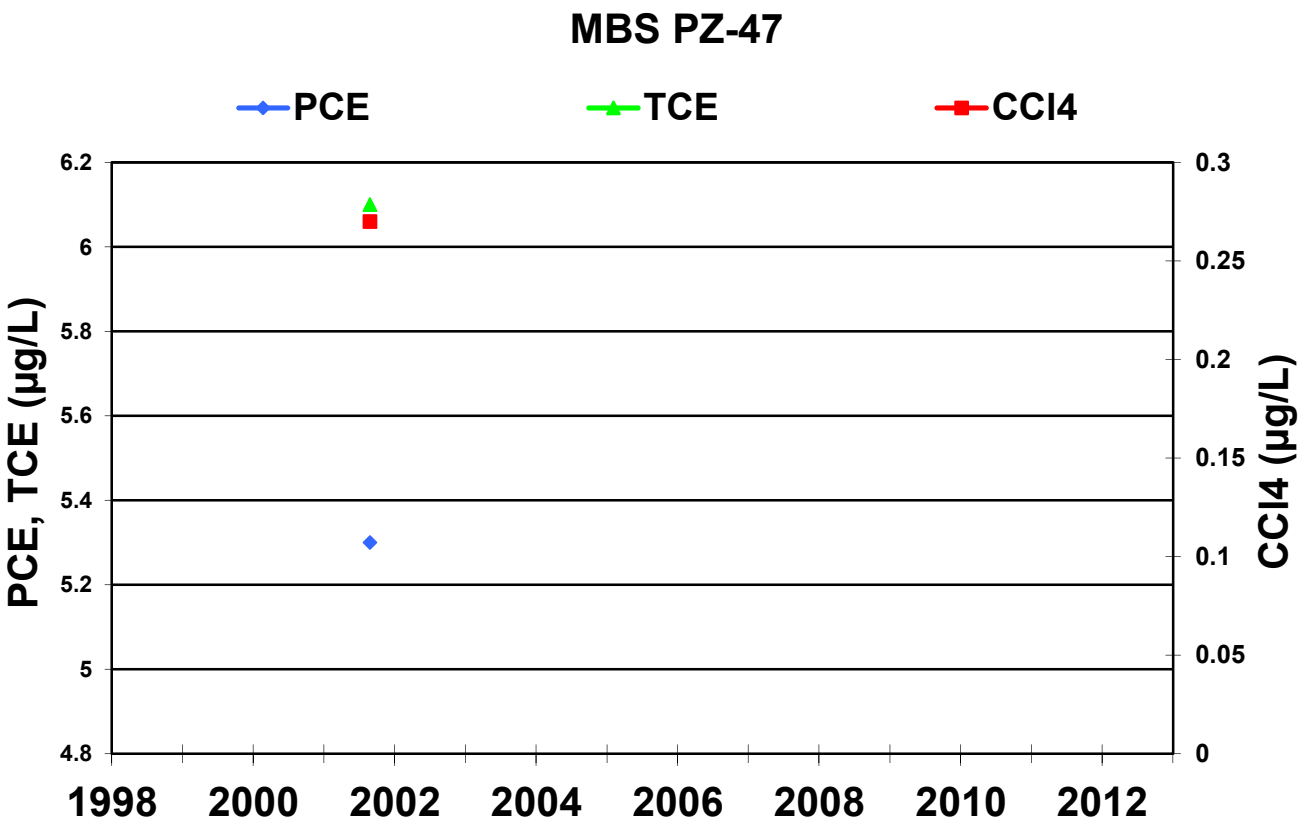

MBS PZ-41
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
18
16
14
12
10
8
6
4
2
0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

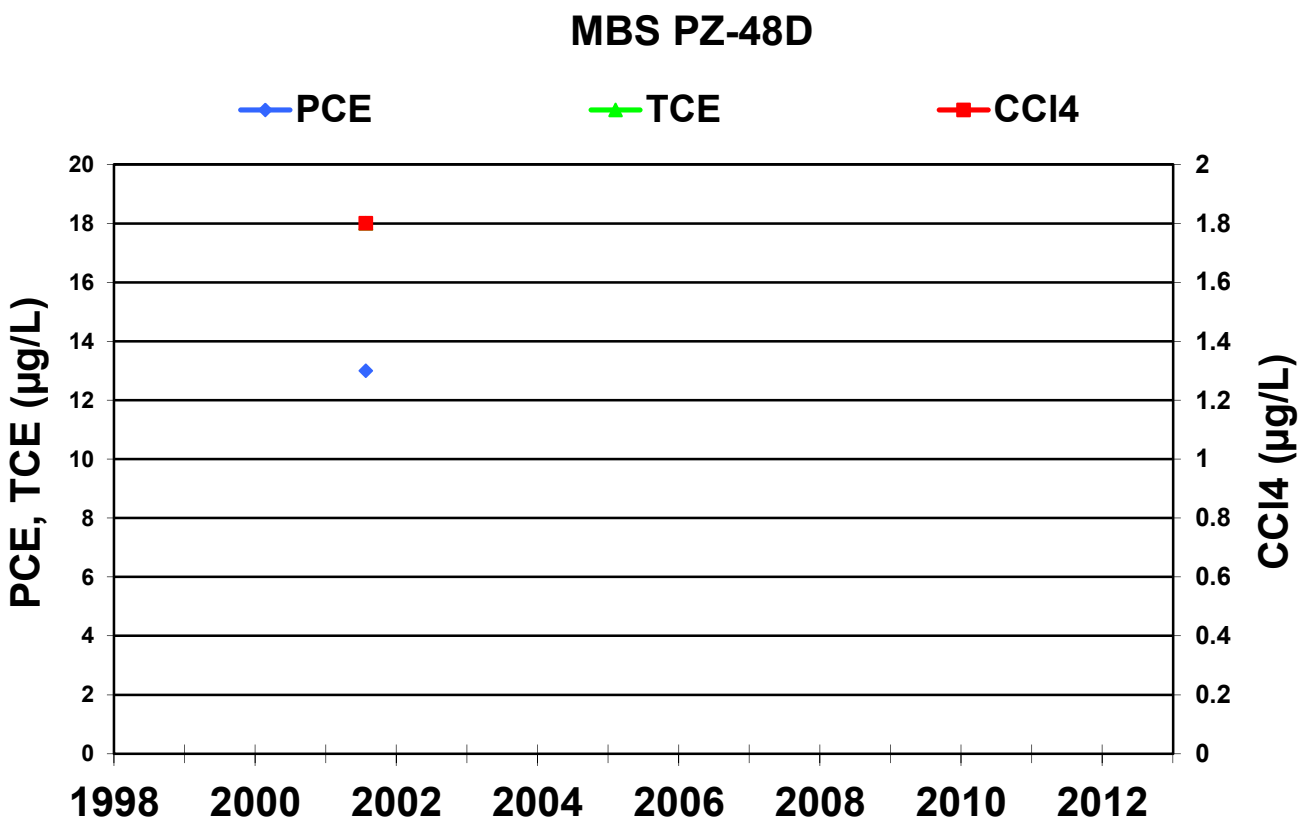

MBS PZ-42D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
50
45
40
35
30
25
20
15
10
5
0
3.5
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

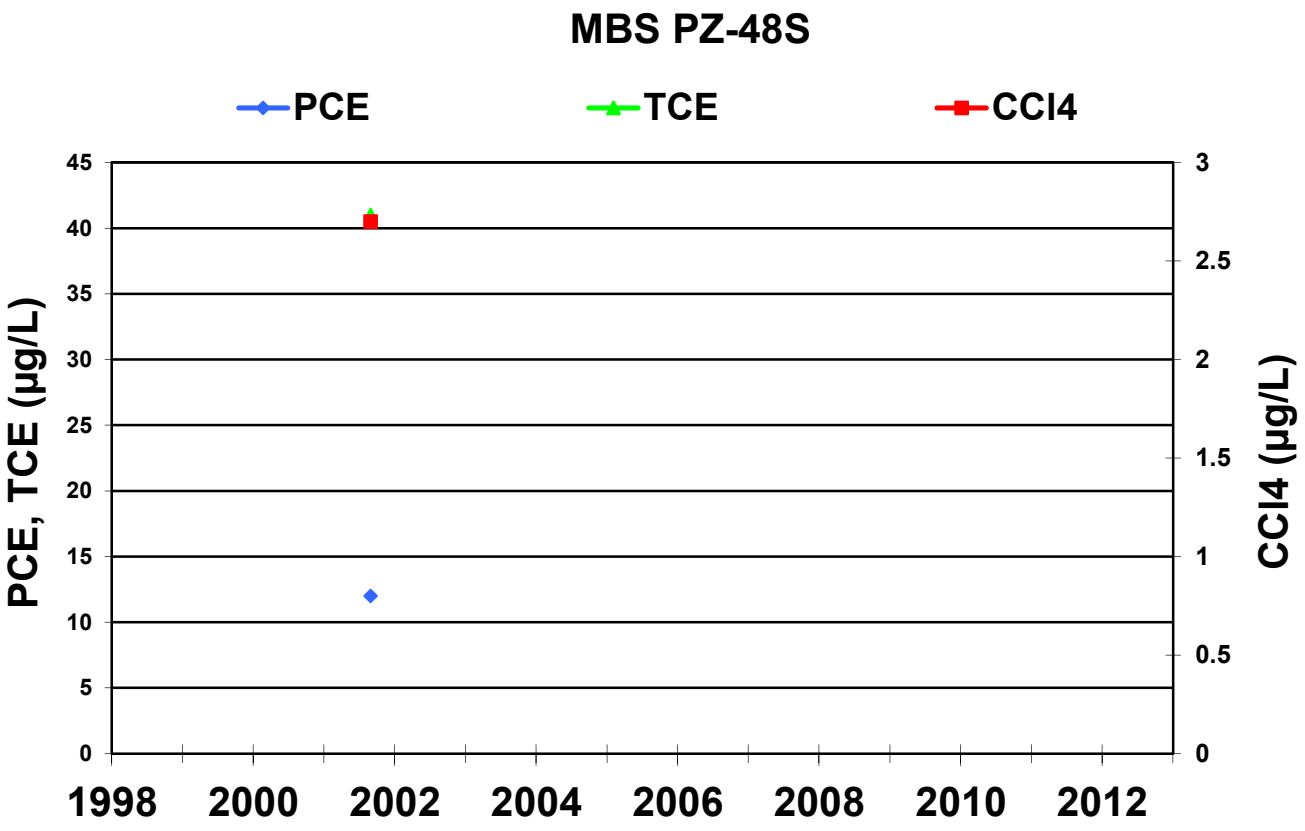

MBS PZ-42S
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
3.5
3
2.5
2
1.5
1
0.5
0
0.12
0.1
0.08
0.06
0.04
0.02
0
1998
2000
2002
2004
2006
2008
2010
2012

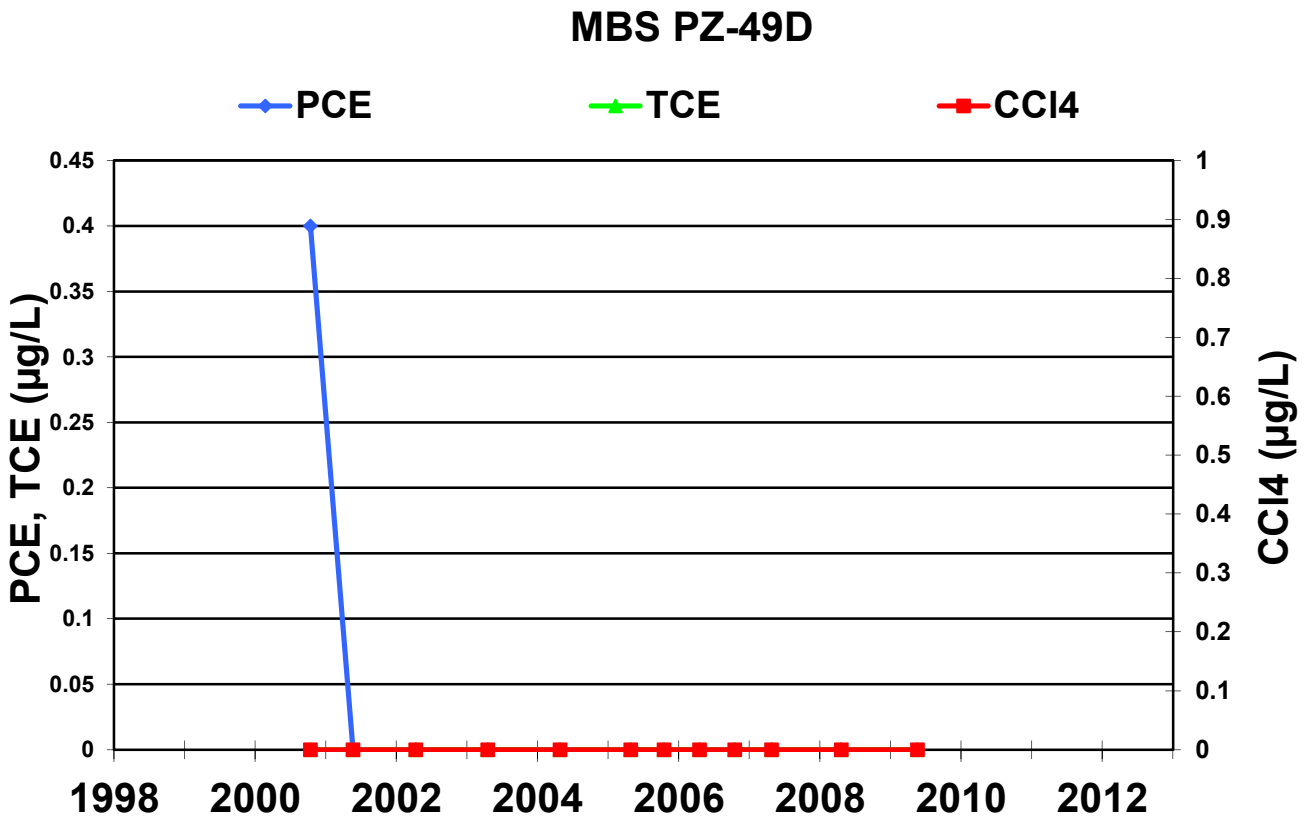

MBS PZ-43
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
40
35
30
25
20
15
10
5
0
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

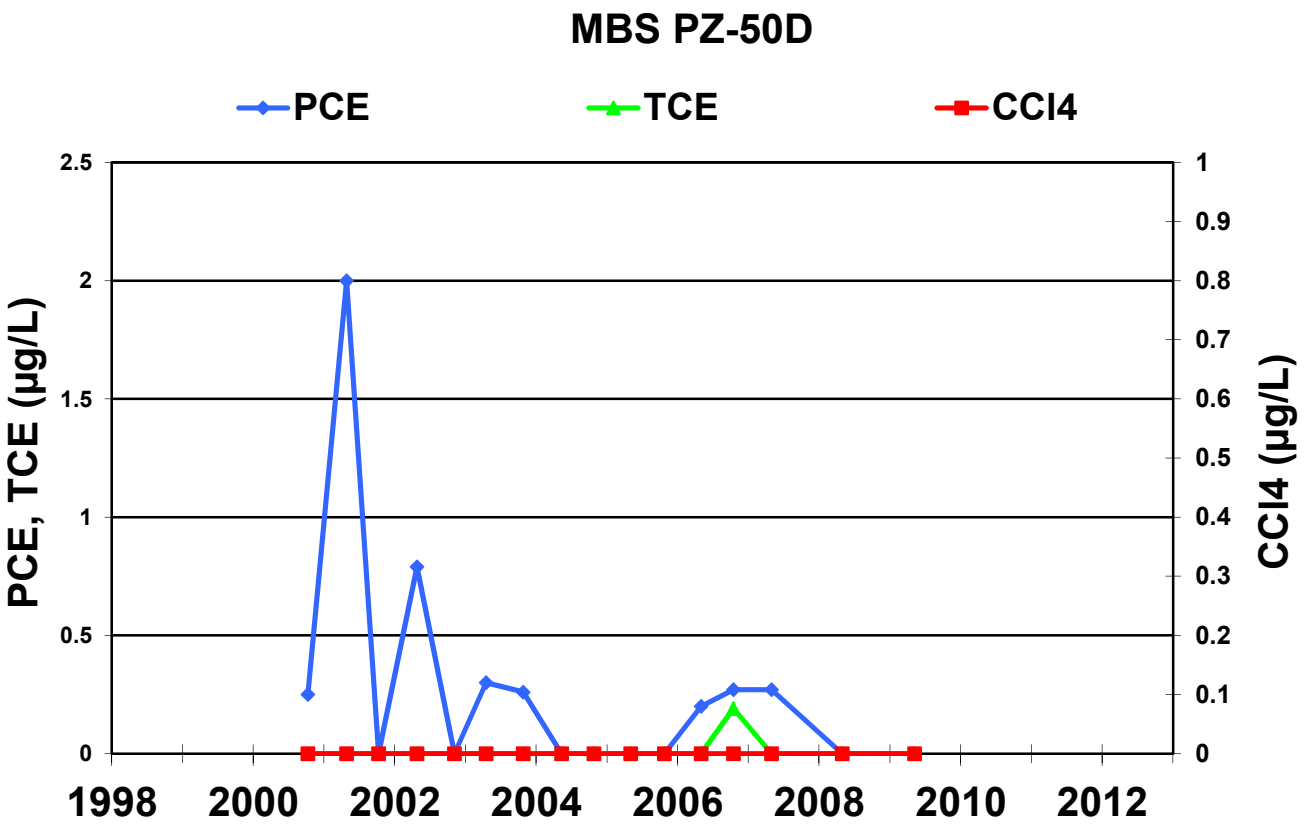

MBS PZ-44
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
18
16
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

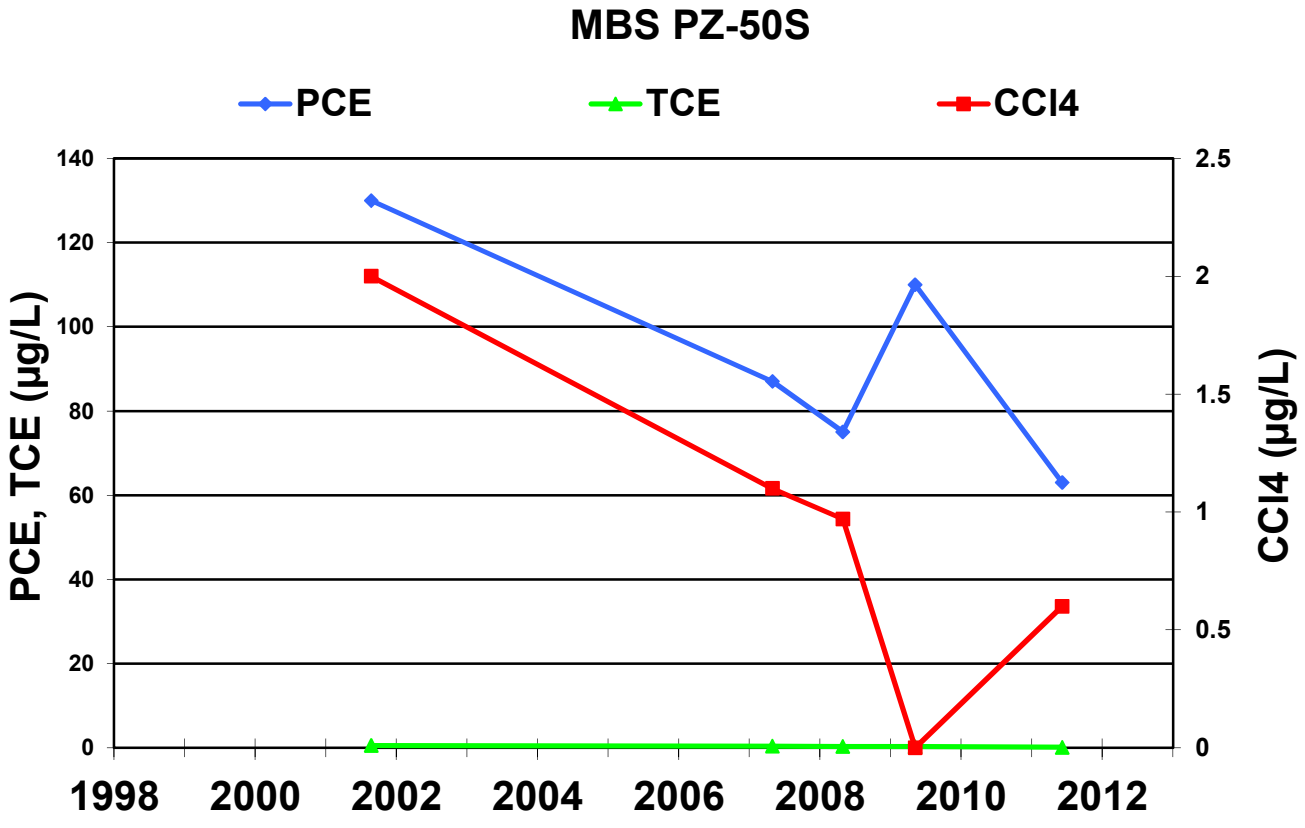

MBS PZ-47
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
6.2
6
5.8
5.6
5.4
5.2
5
4.8
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

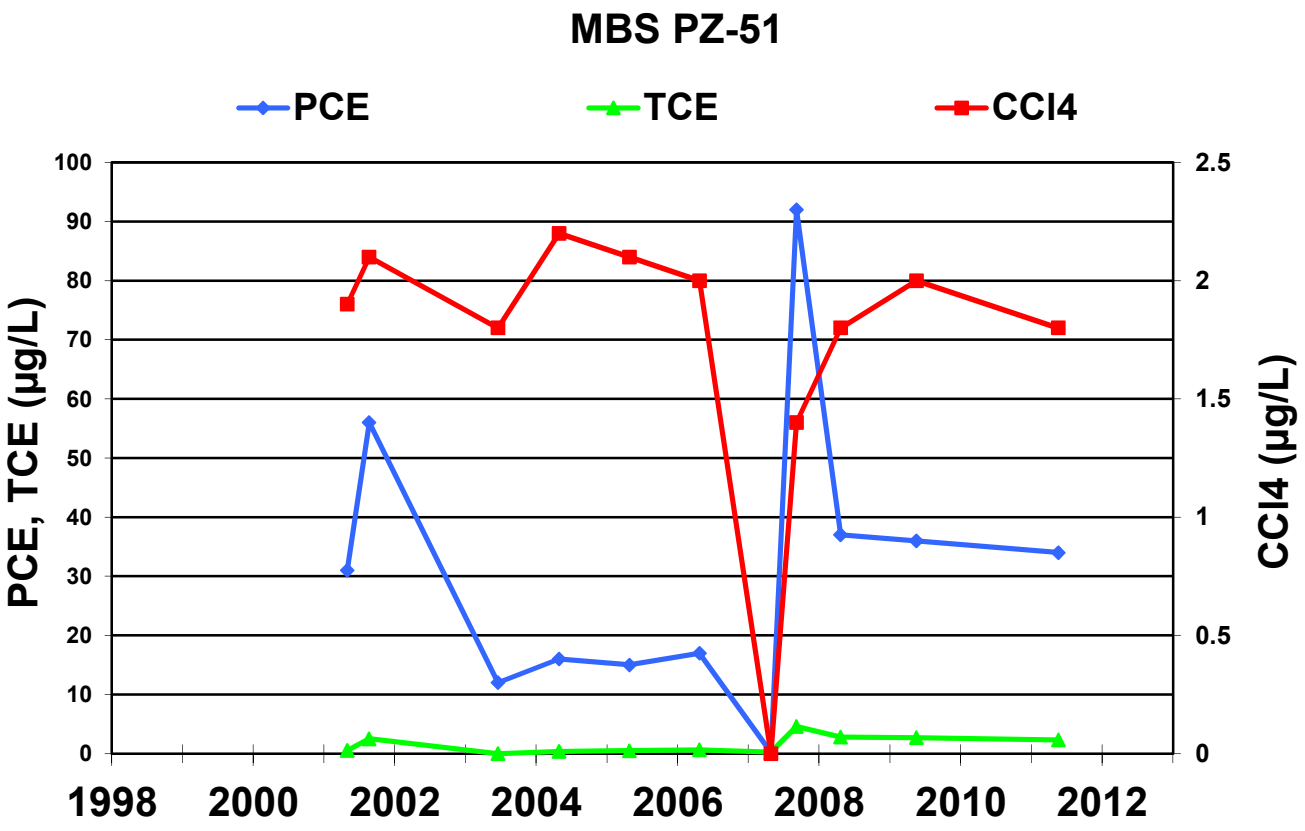

MBS PZ-48D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
20
18
16
14
12
10
8
6
4
2
0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

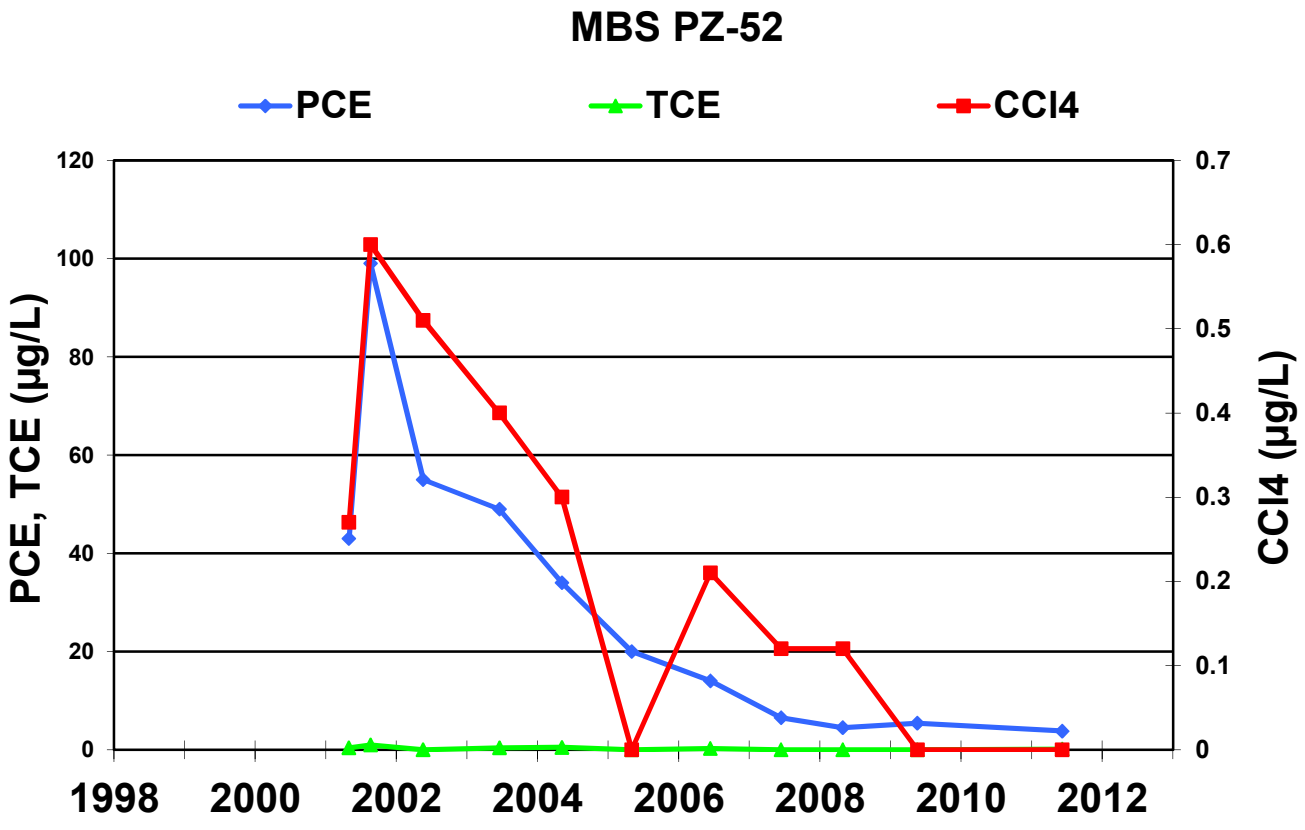

MBS PZ-48S
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
45
40
35
30
25
20
15
10
5
0
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

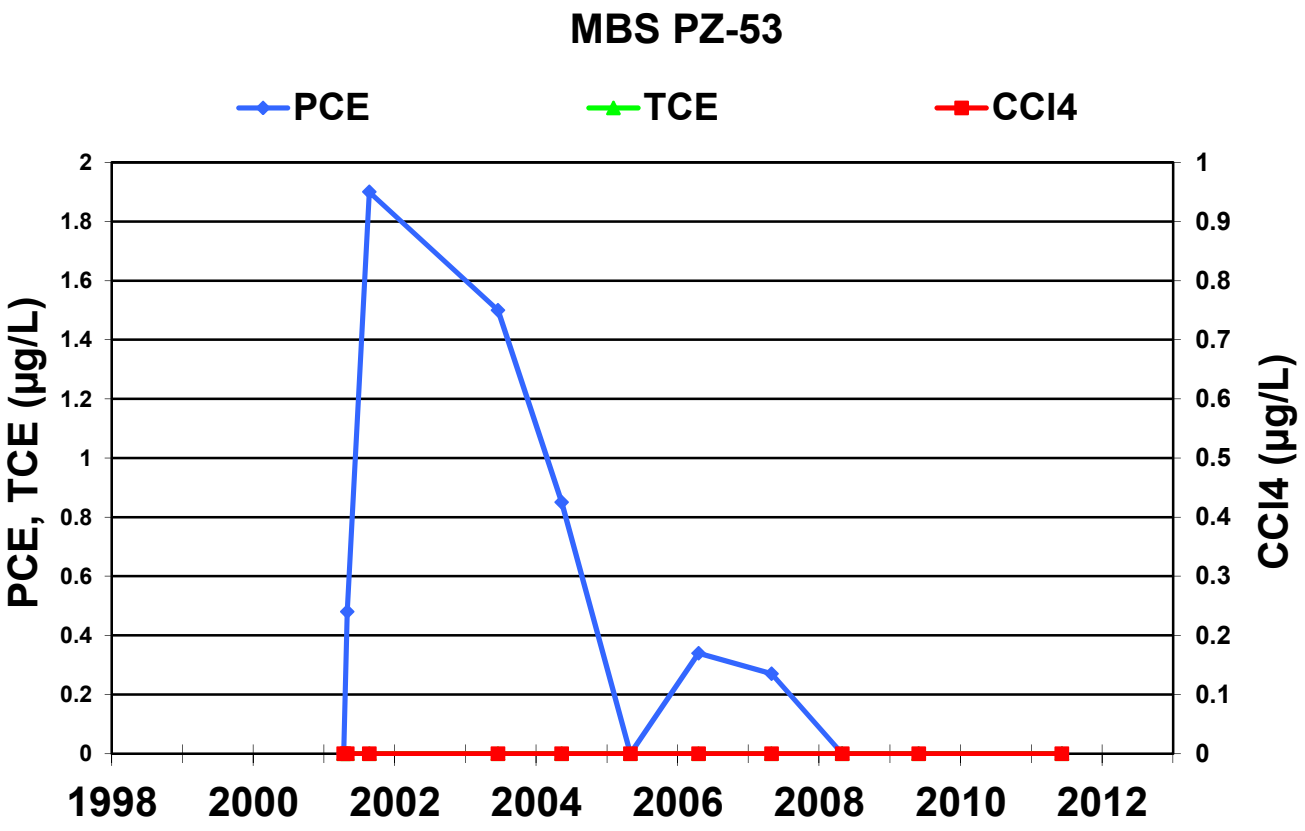

MBS PZ-49D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

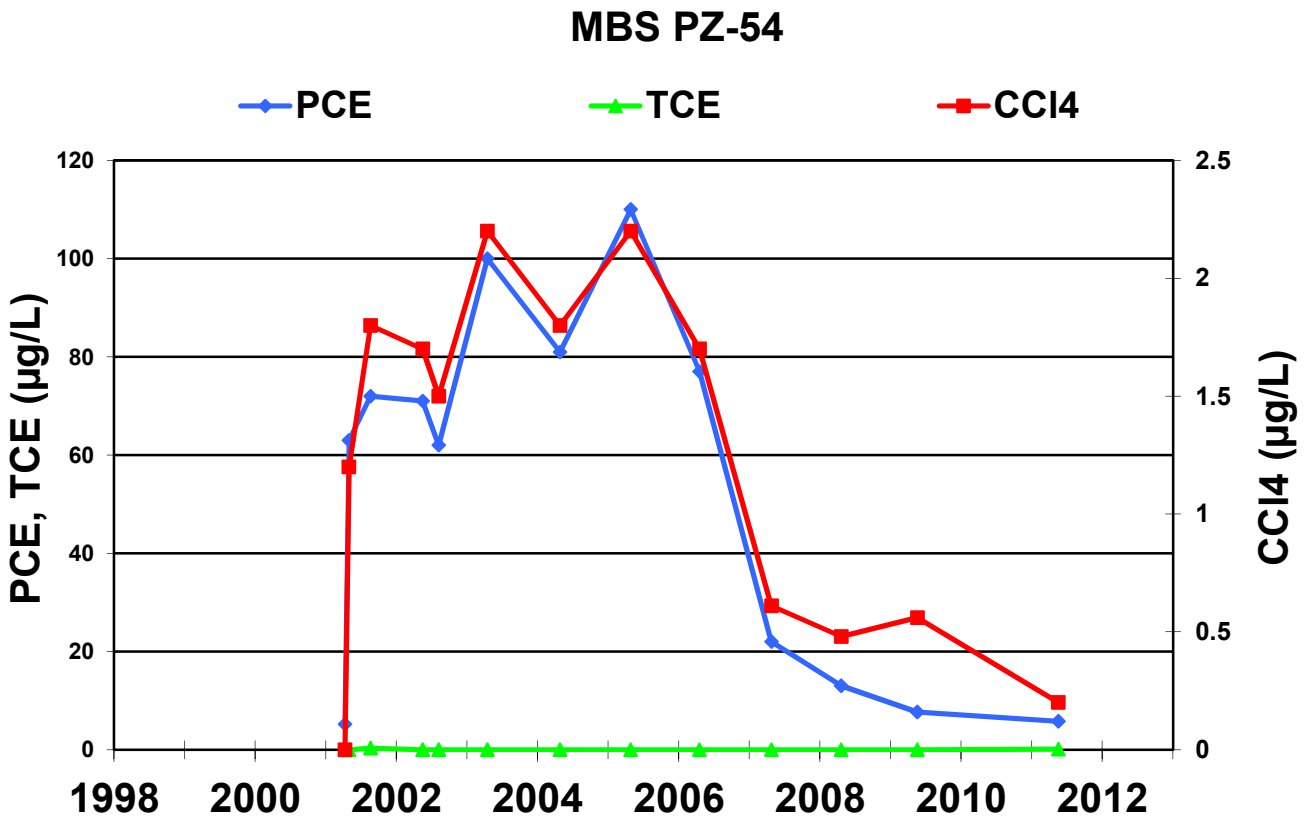

MBS PZ-50D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

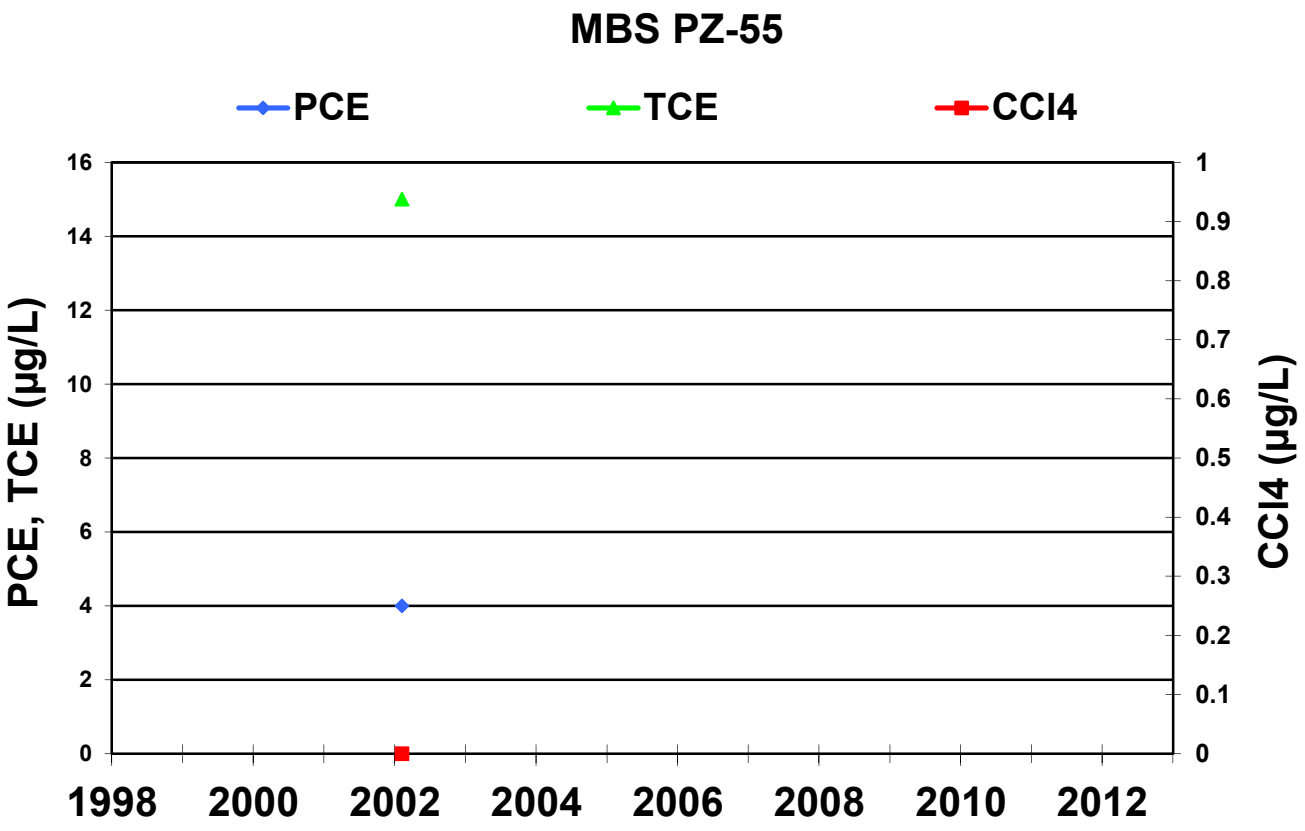

MBS PZ-50S
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
140
120
100
80
60
40
20
0
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

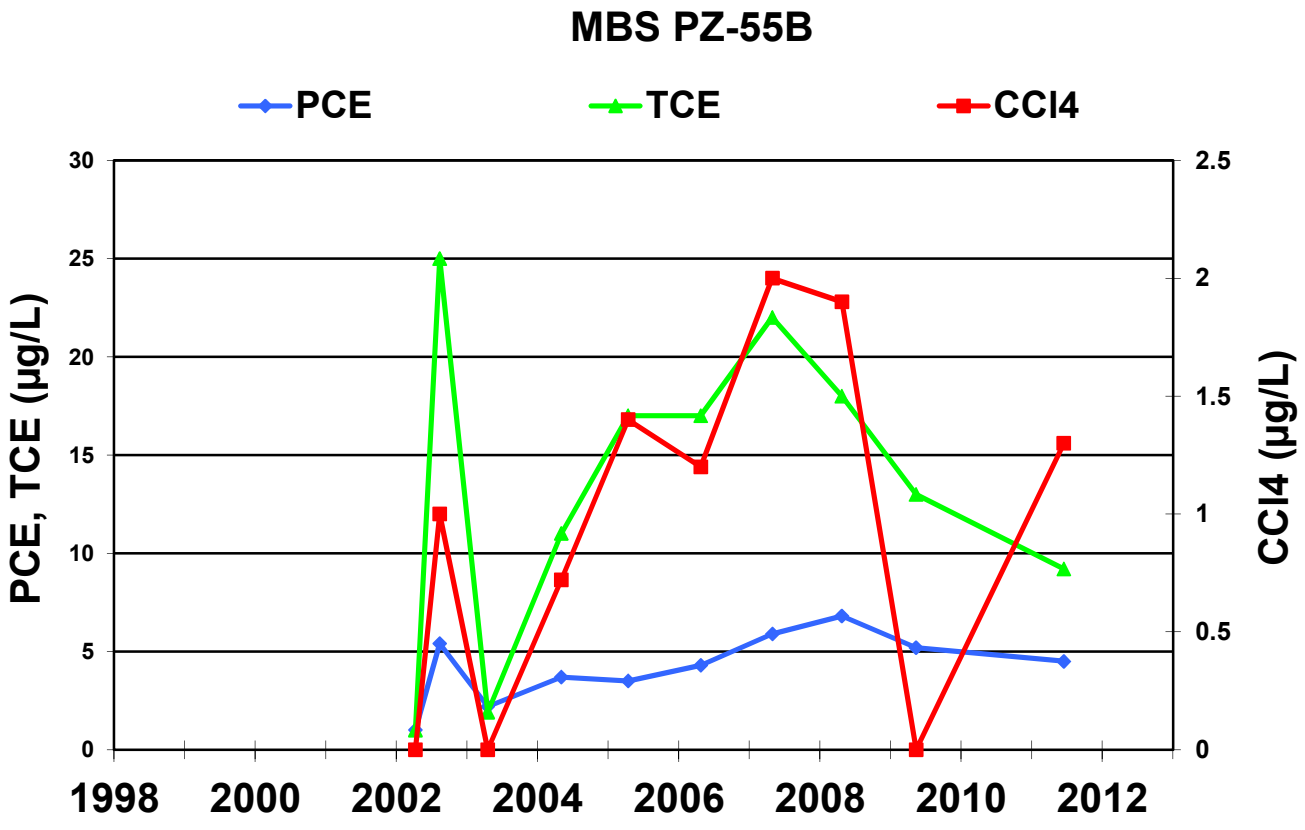

MBS PZ-51
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
100
90
80
70
60
50
40
30
20
10
0
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

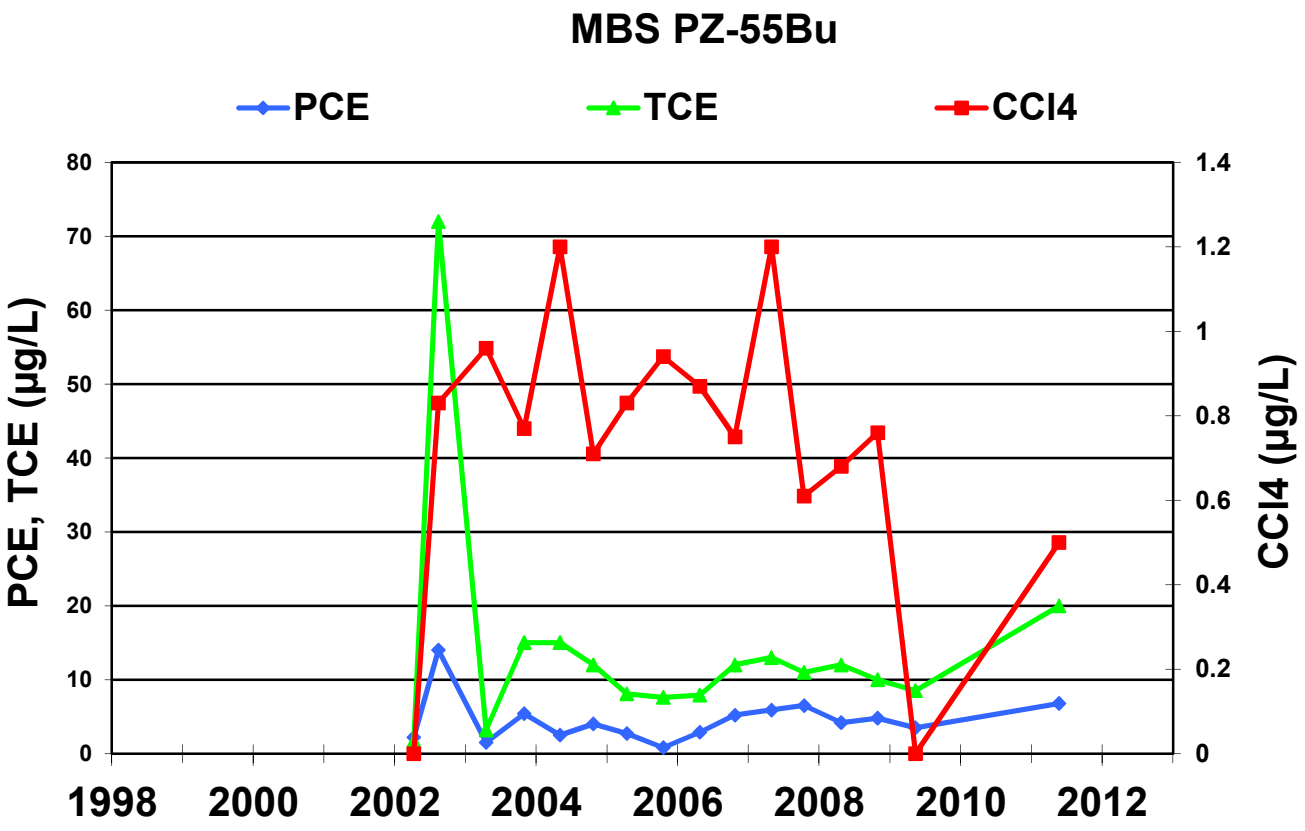

MBS PZ-52
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
120
100
80
60
40
20
0
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

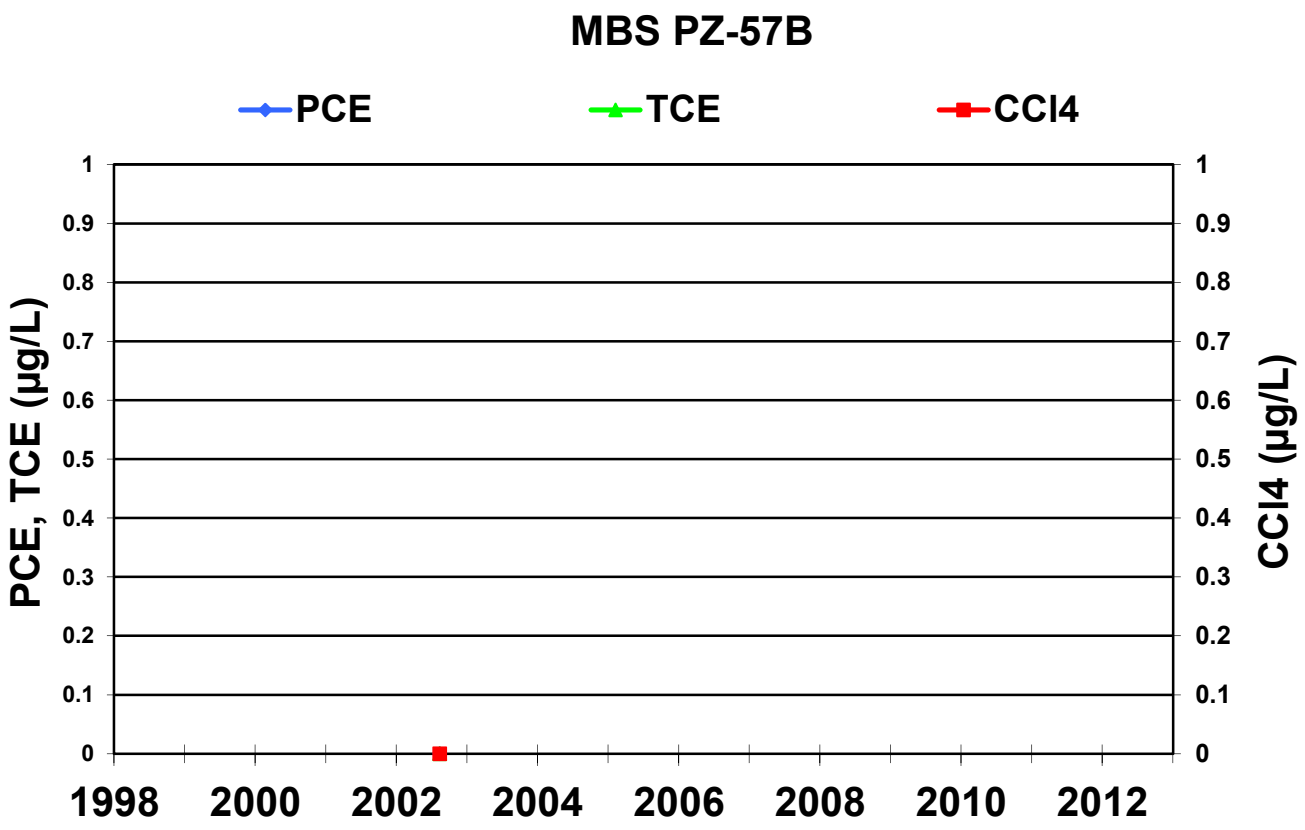

MBS PZ-53
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

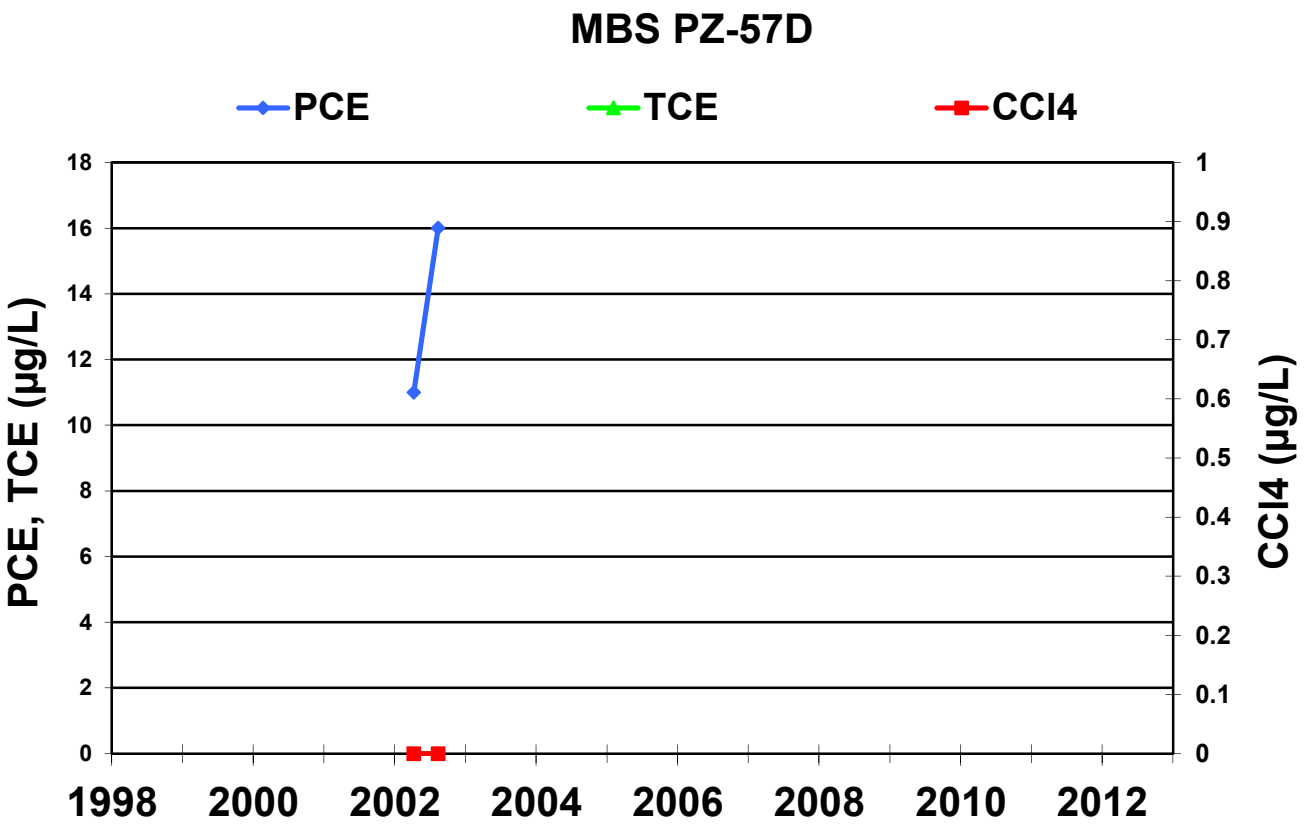

MBS PZ-54
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
120
100
80
60
40
20
0
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

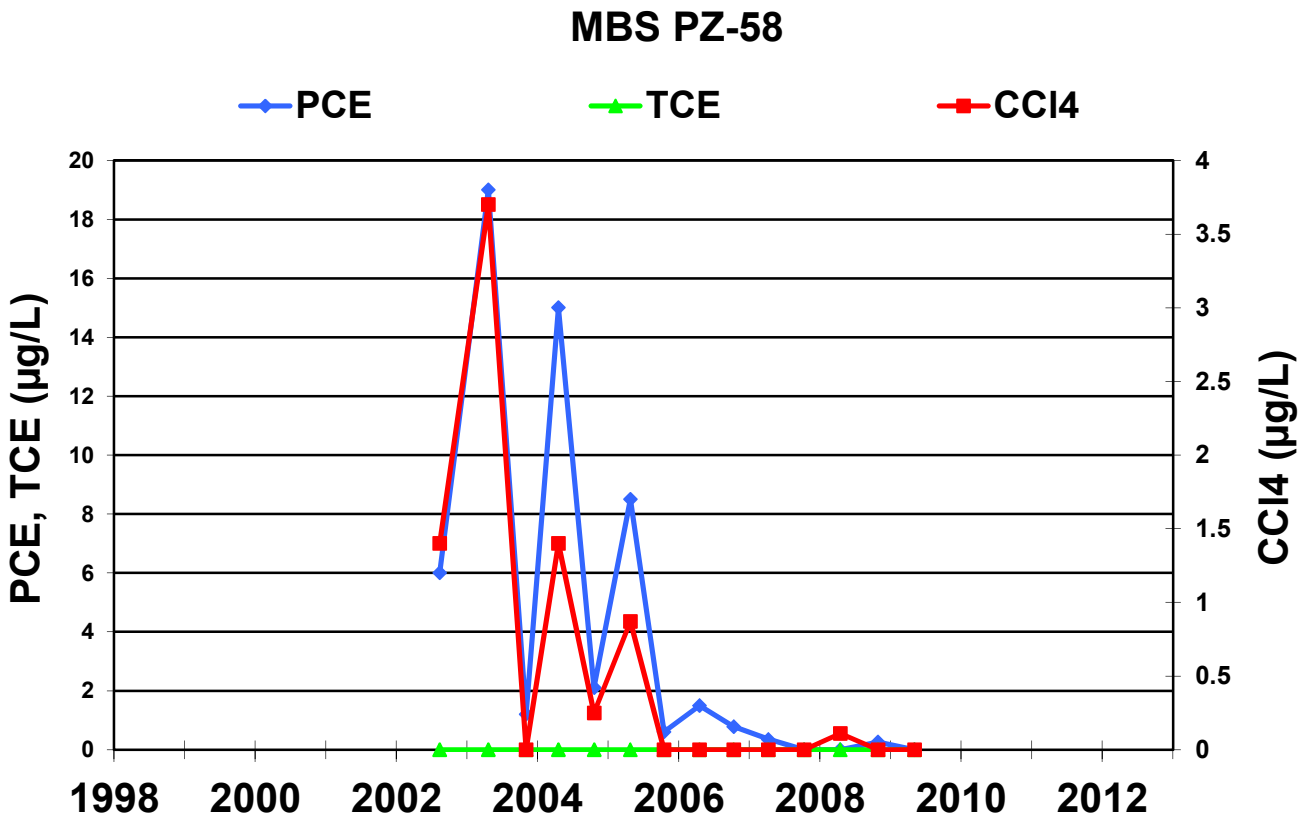

MBS PZ-55
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
16
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

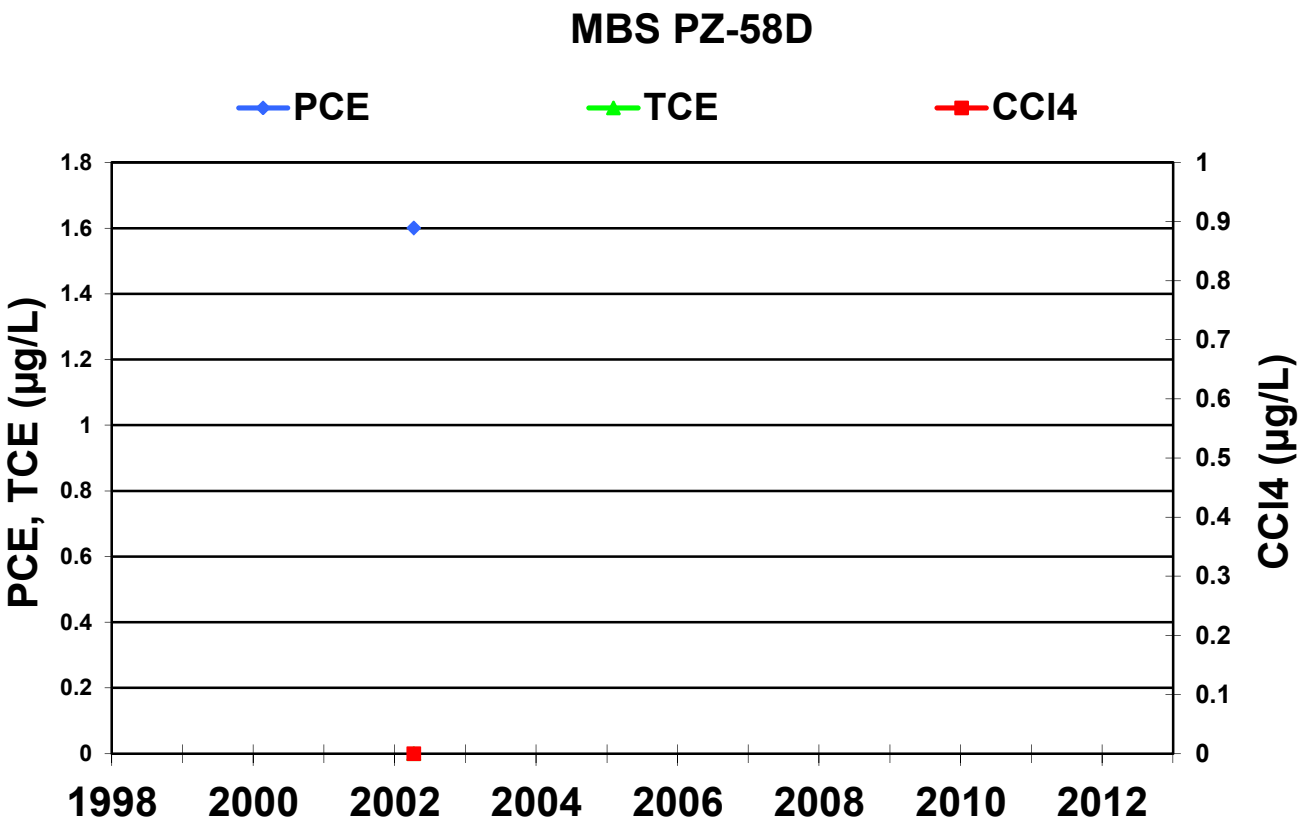

MBS PZ-55B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
30
25
20
15
10
5
0
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

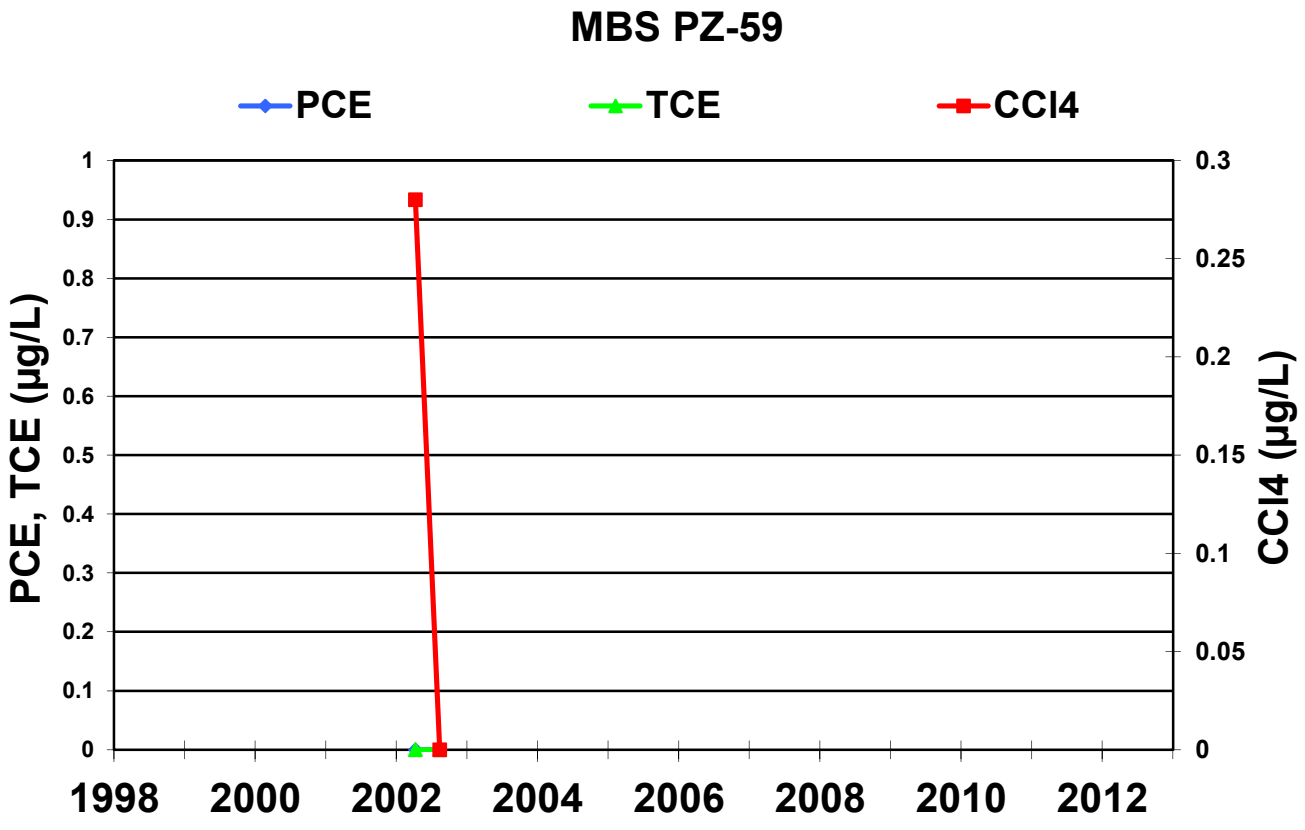

MBS PZ-55Bu
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
80
70
60
50
40
30
20
10
0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

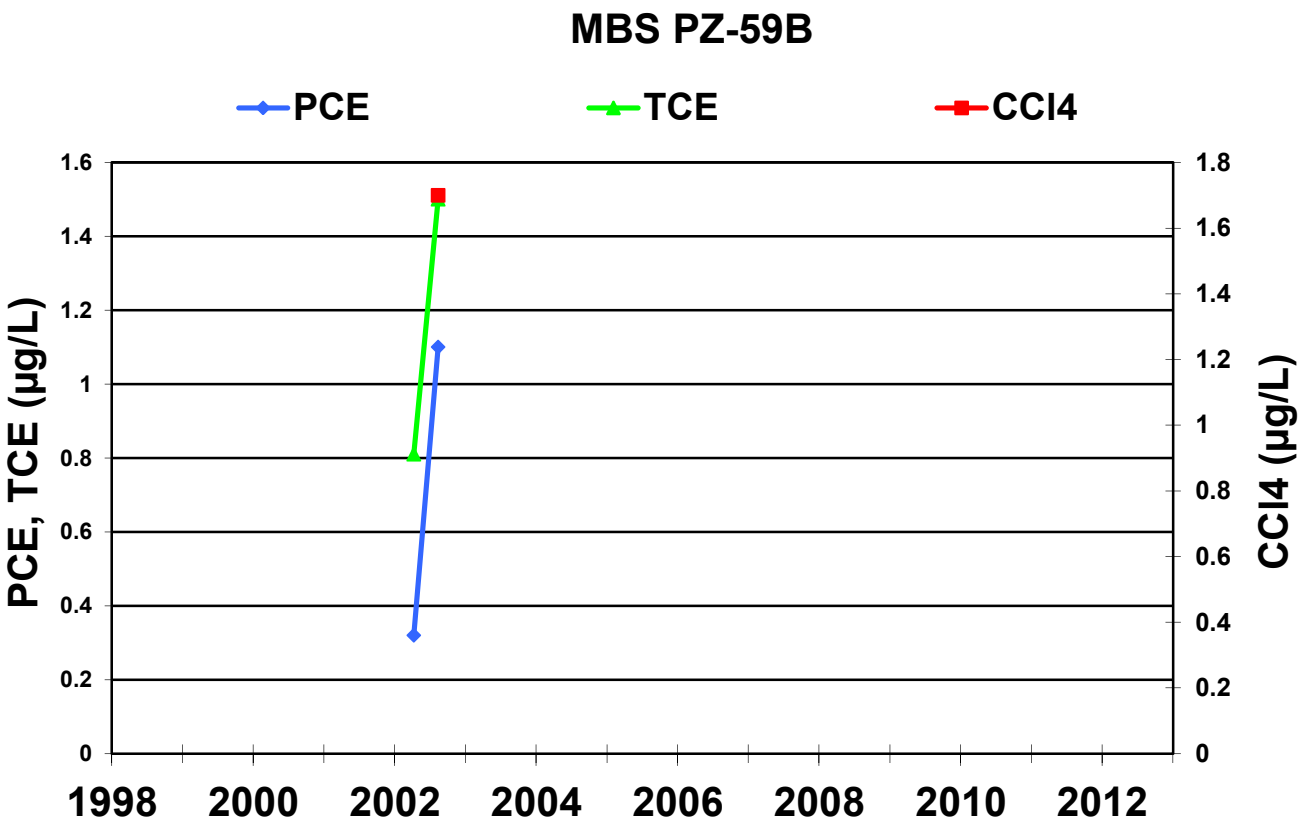

MBS PZ-57B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

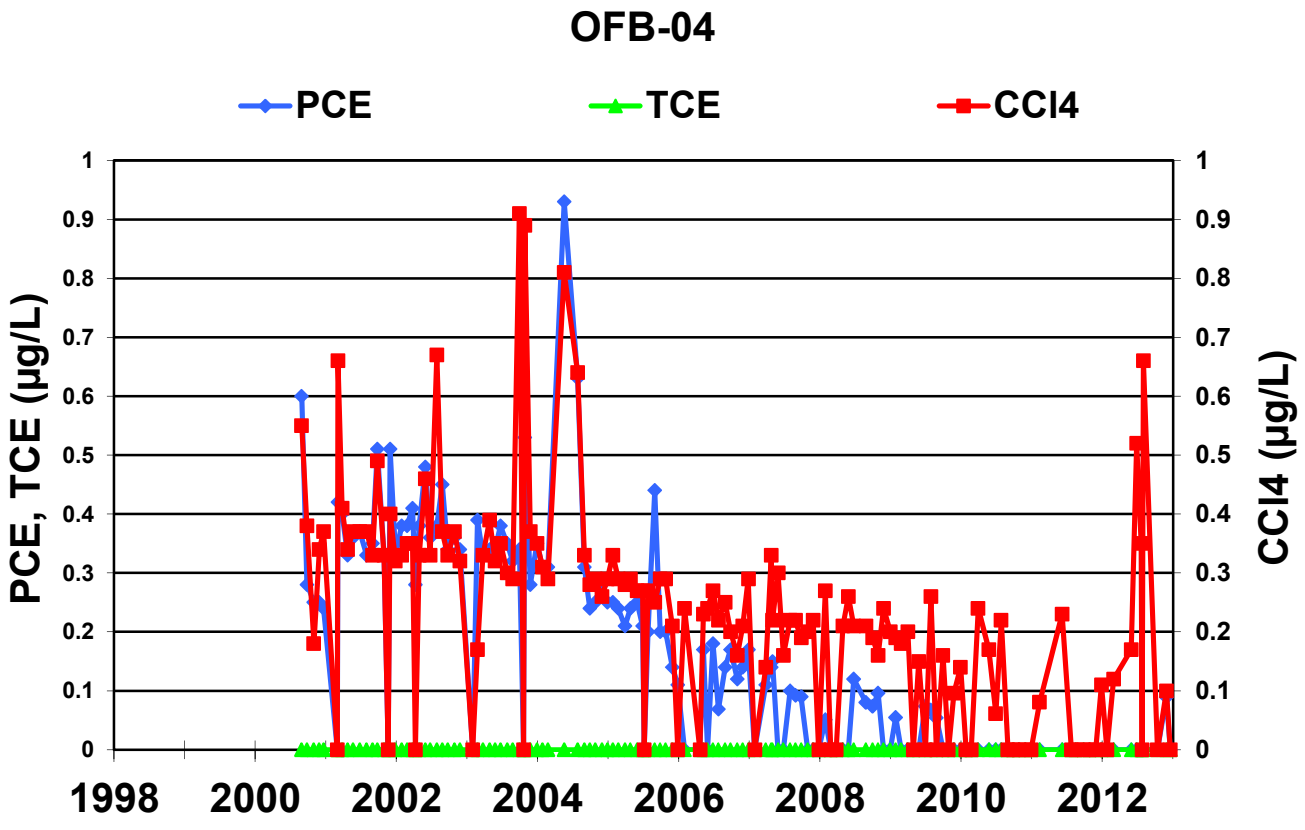

MBS PZ-57D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
18
16
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

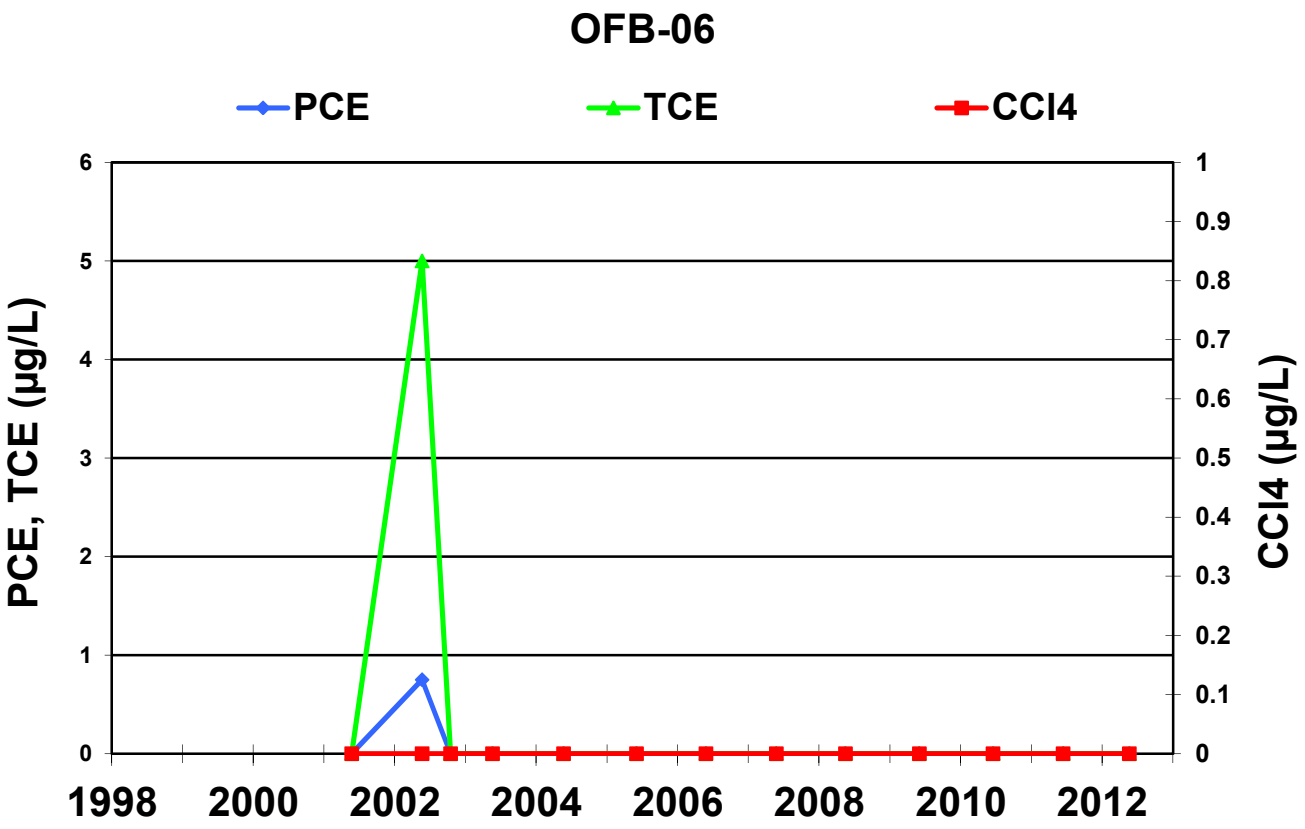

MBS PZ-58
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
20
18
16
14
12
10
8
6
4
2
0
4
3.5
3
2.5
2
1.5
1
0.5
0
1998
2000
2002
2004
2006
2008
2010
2012

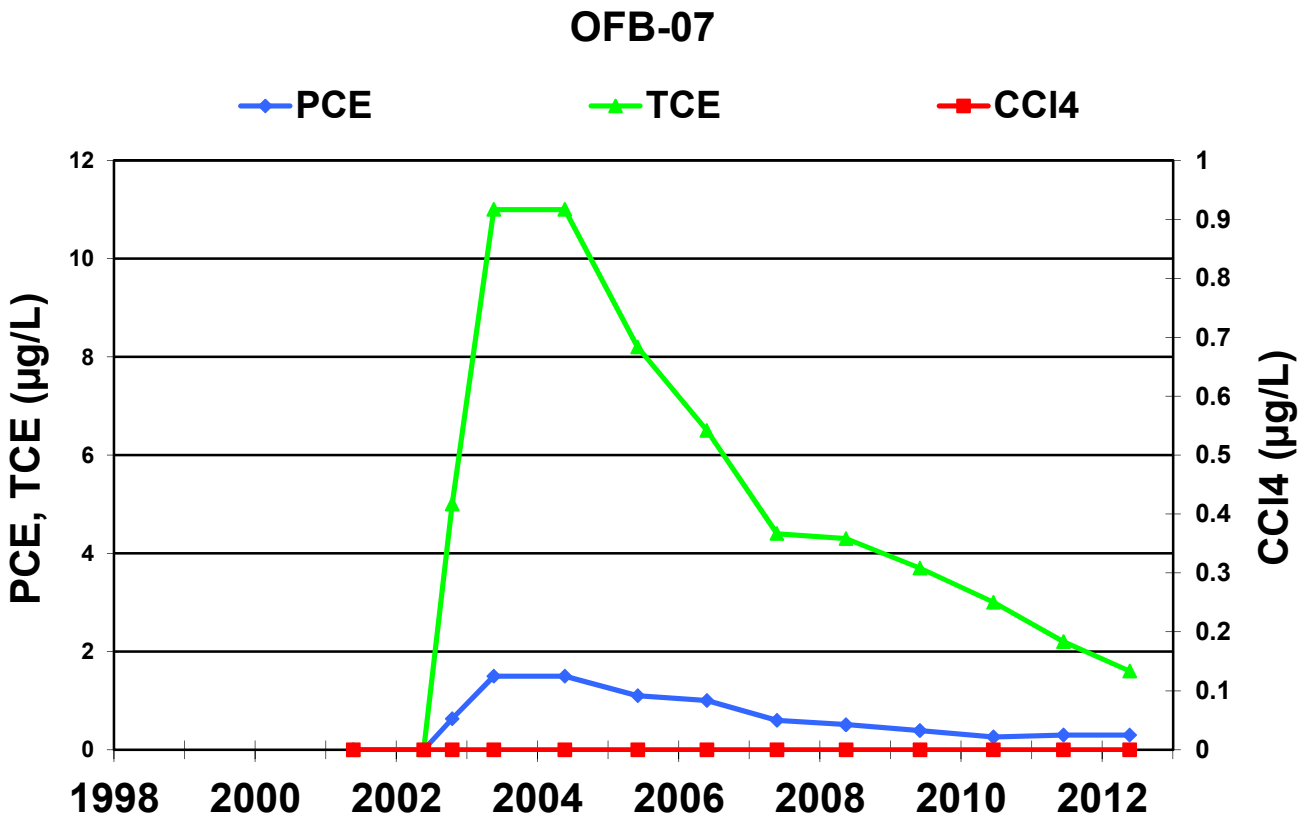

MBS PZ-58D
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

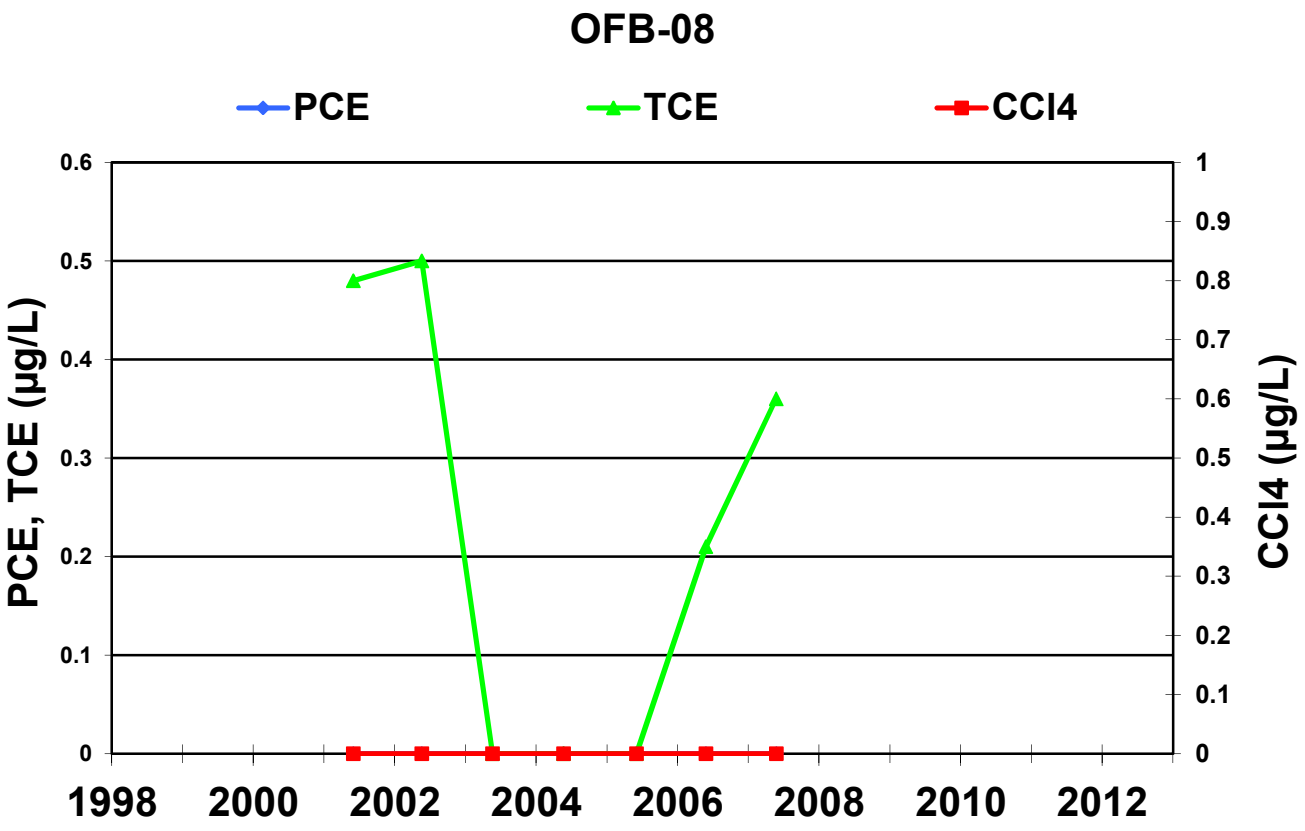

MBS PZ-59
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0.3
0.25
0.2
0.15
0.1
0.05
0
1998
2000
2002
2004
2006
2008
2010
2012

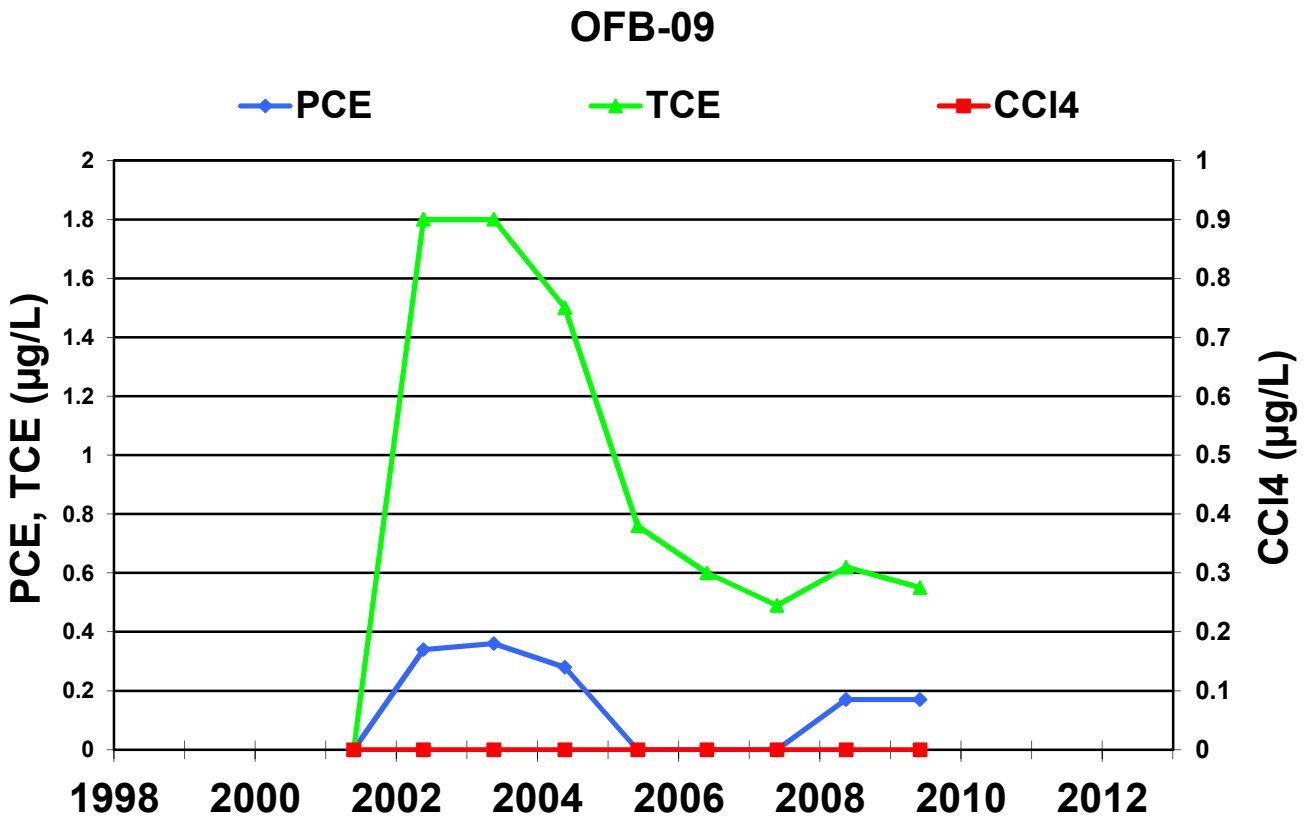

MBS PZ-59B
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1.8
1998
2000
2002
2004
2006
2008
2010
2012

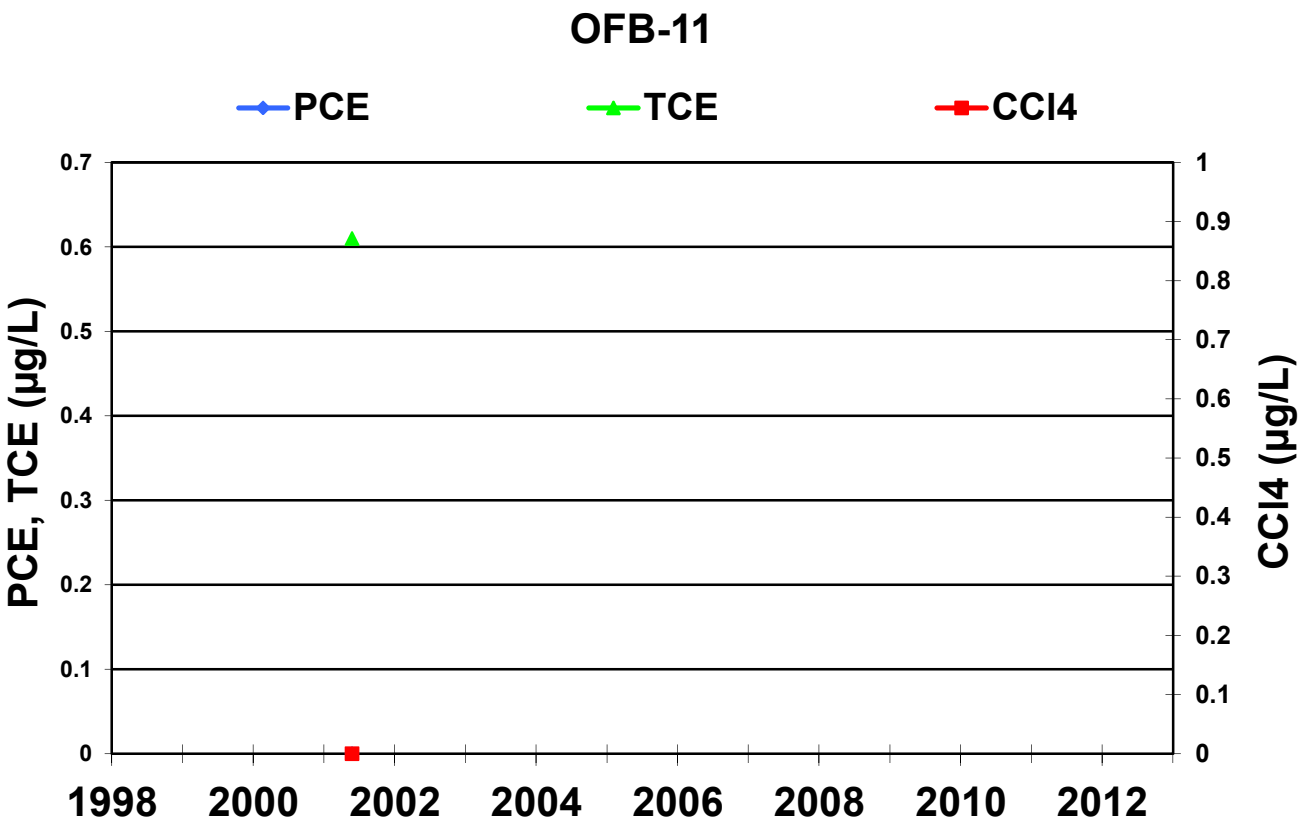

OFB-04
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

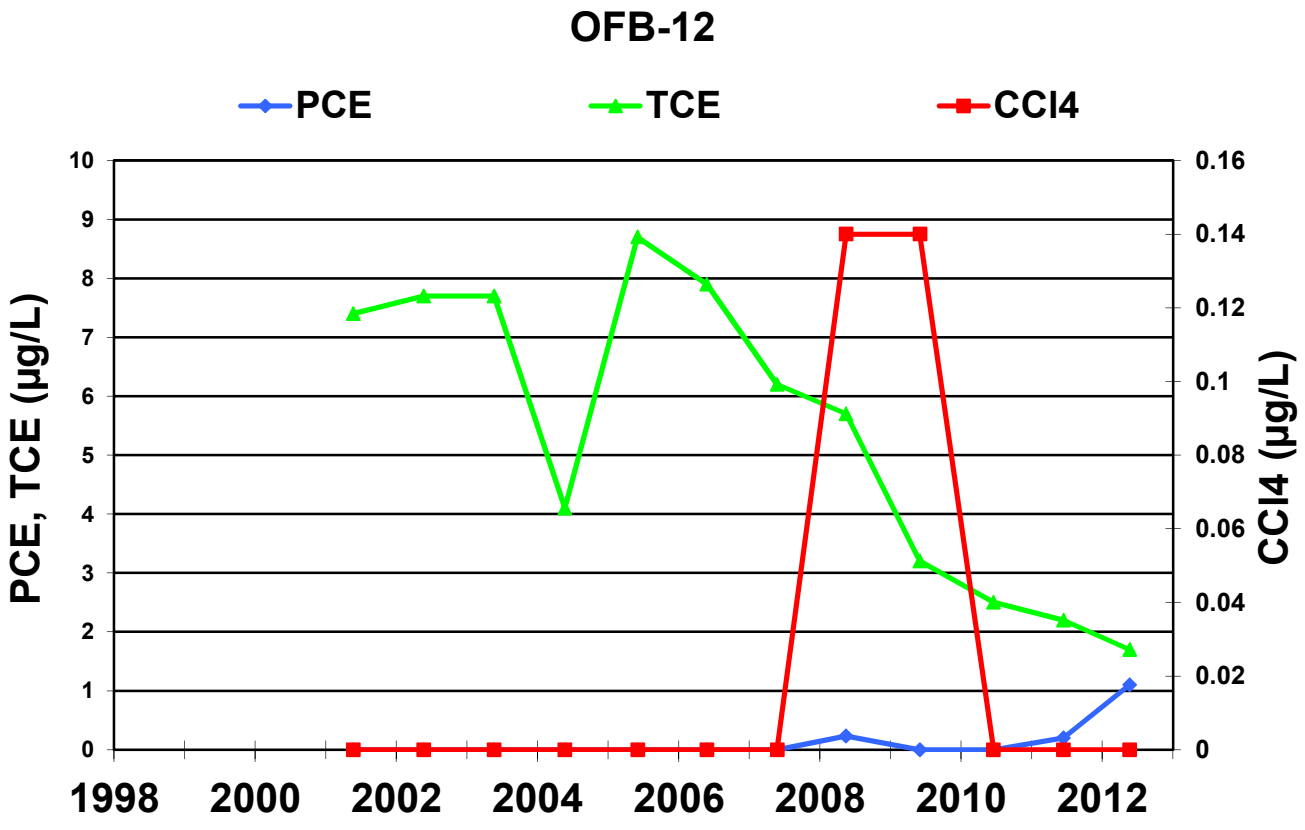

OFB-06
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
1
2
3
4
5
6
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1998
2000
2002
2004
2006
2008
2010
2012

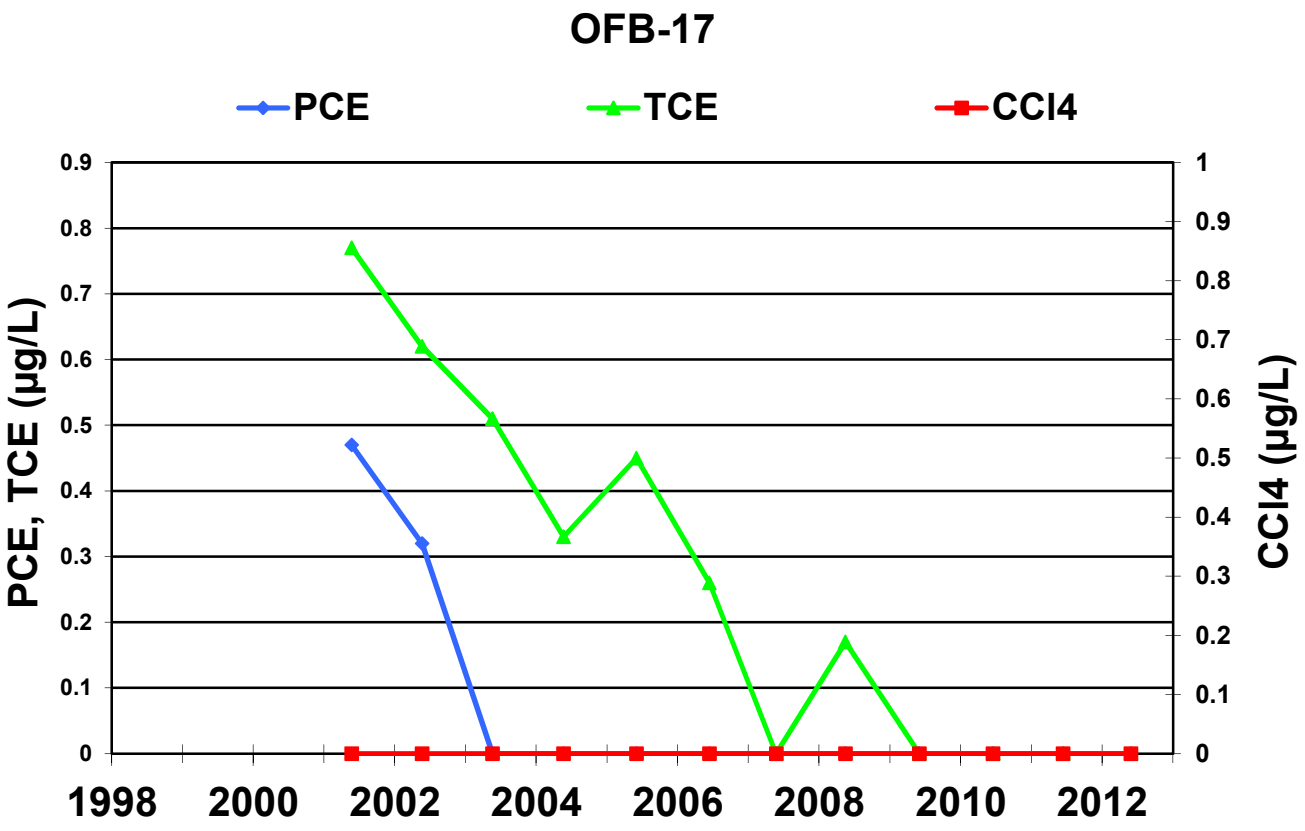

OFB-07
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0
2
4
6
8
10
12
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1998
2000
2002
2004
2006
2008
2010
2012

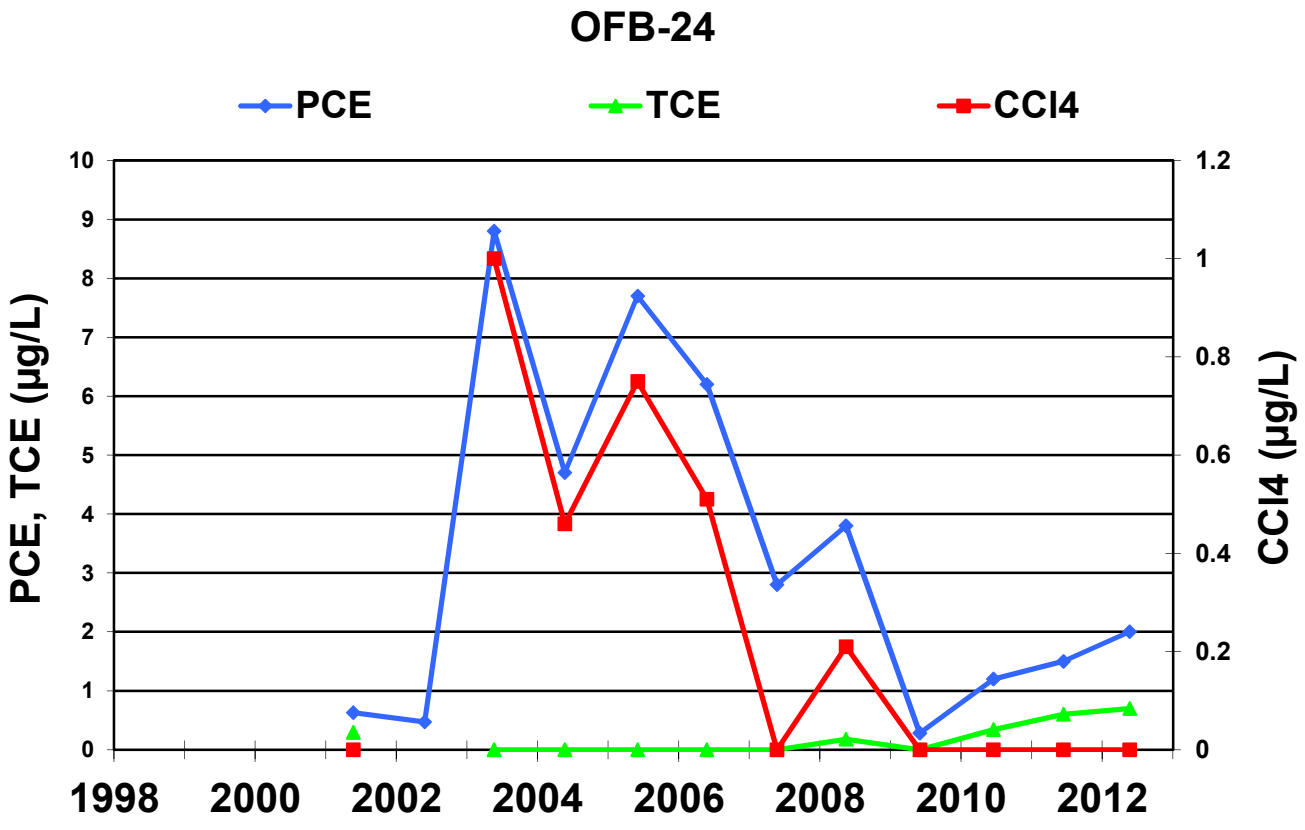

OFB-08
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

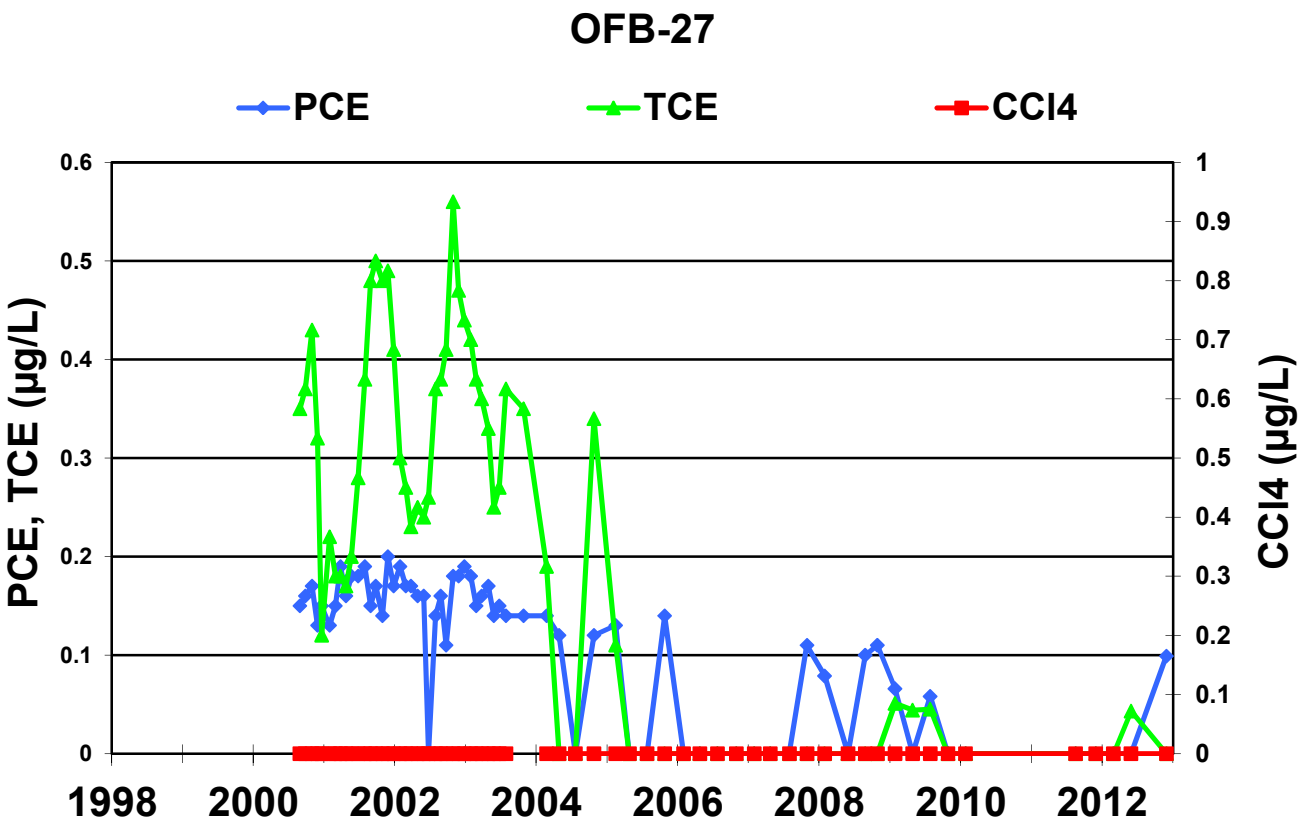

OFB-09
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

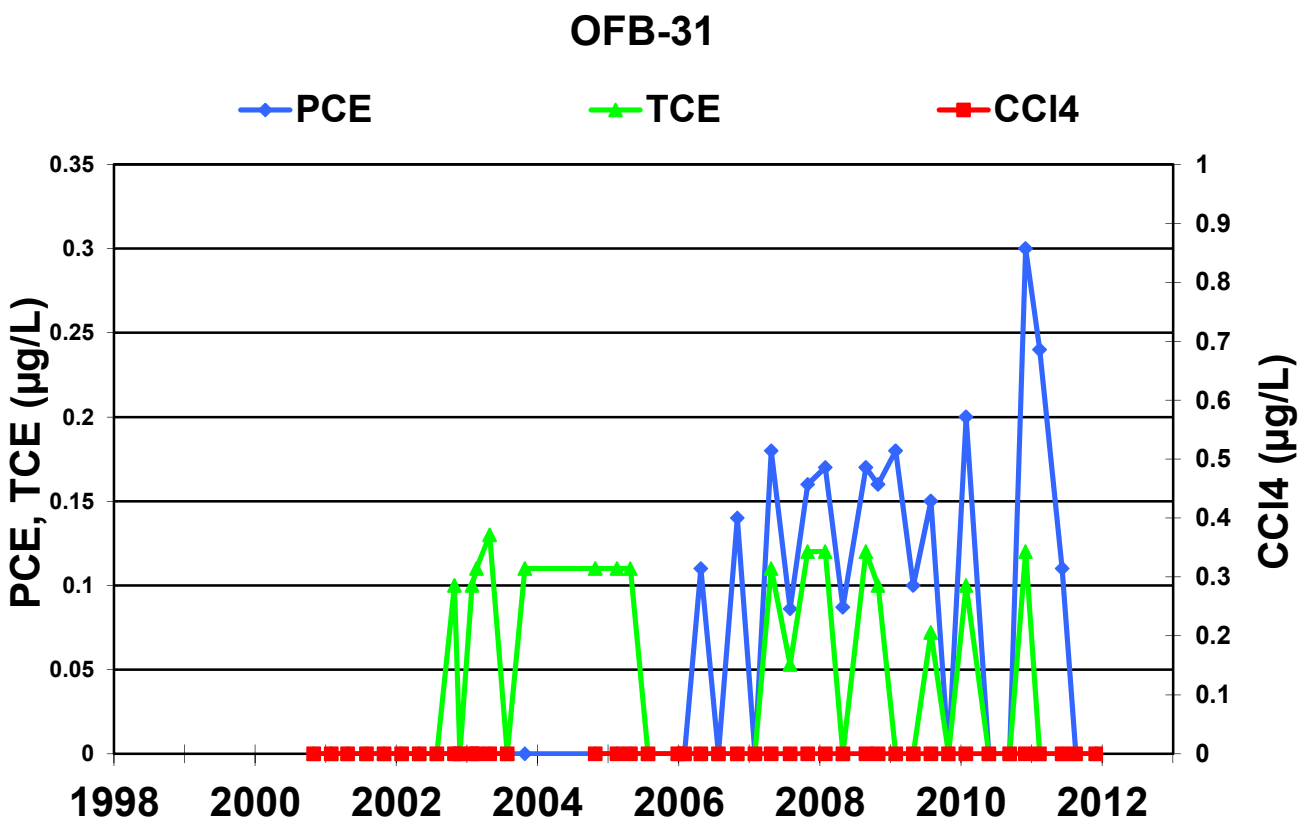

OFB-11
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

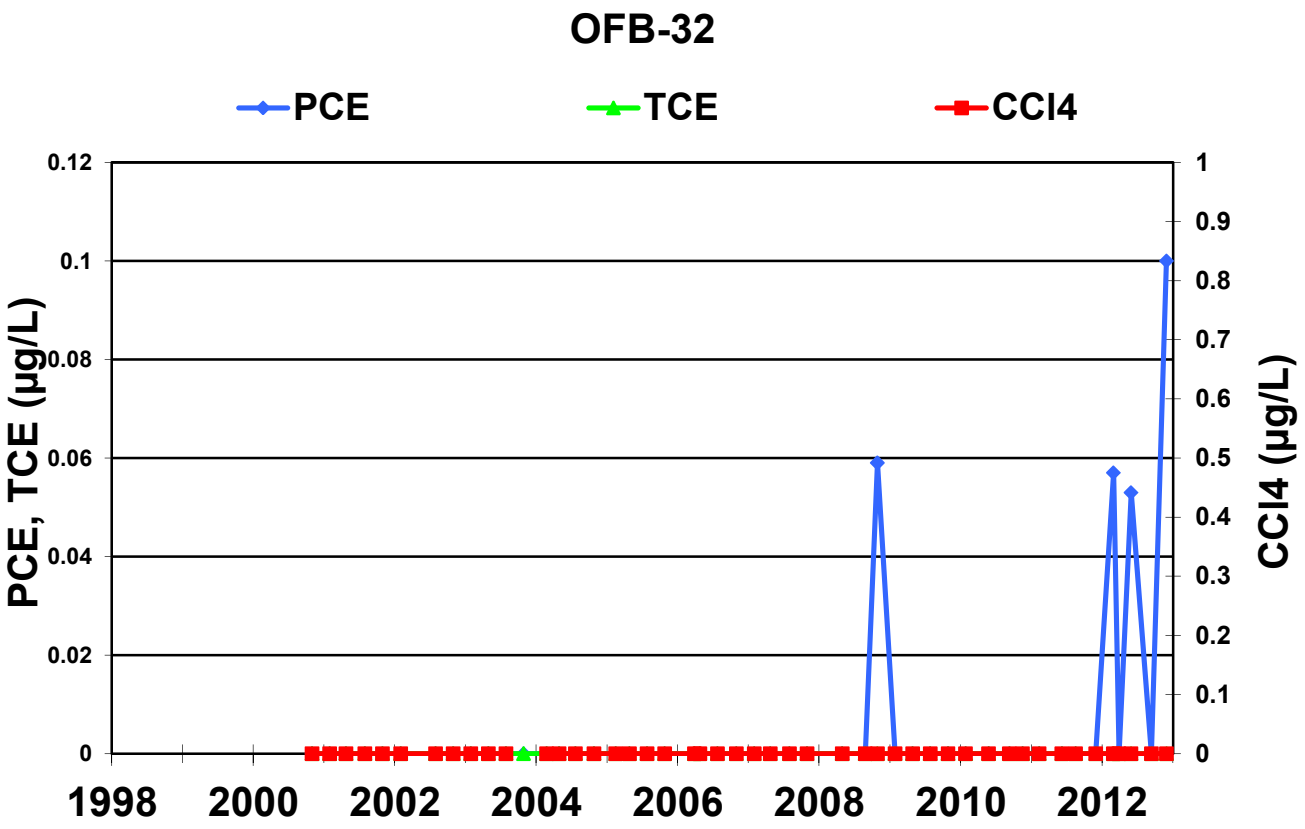

OFB-12
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
10
9
8
7
6
5
4
3
2
1
0
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1998
2000
2002
2004
2006
2008
2010
2012

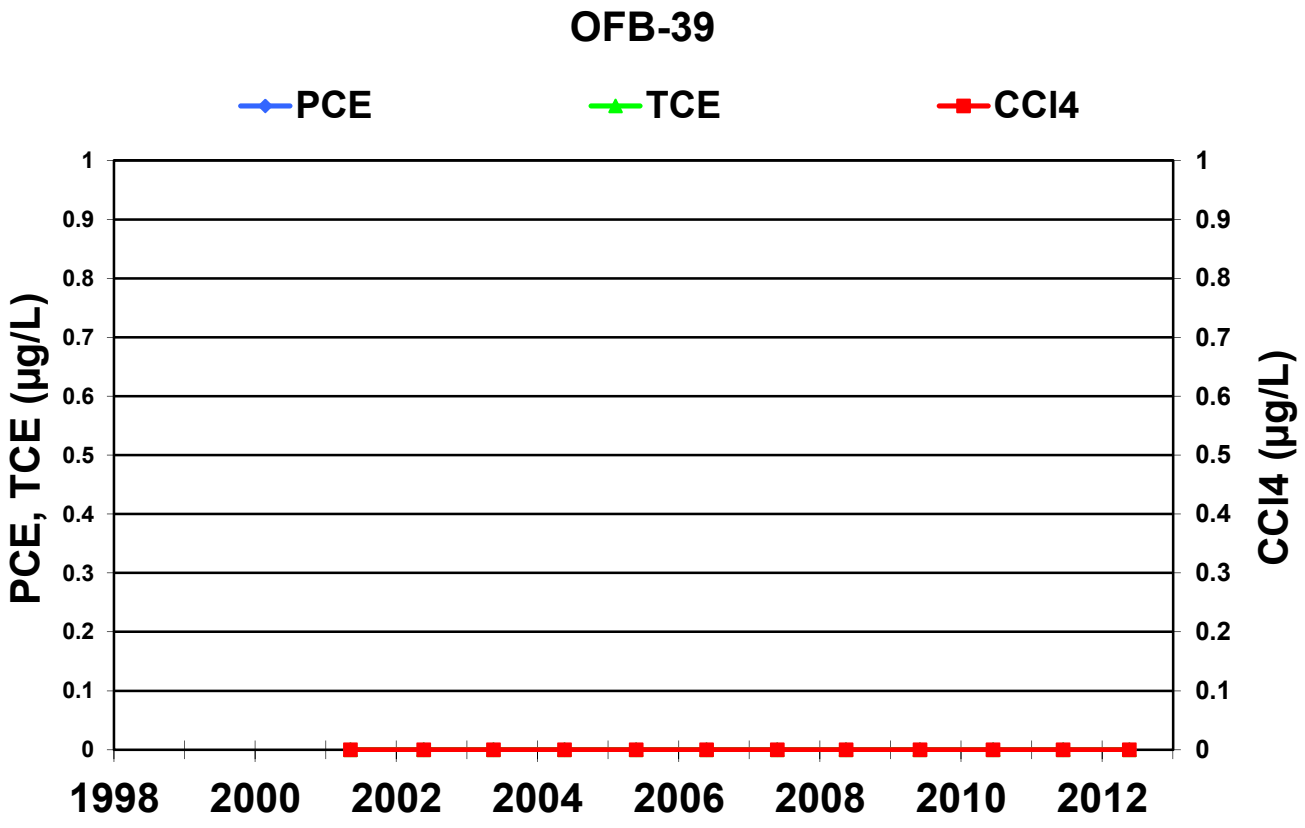

OFB-17
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

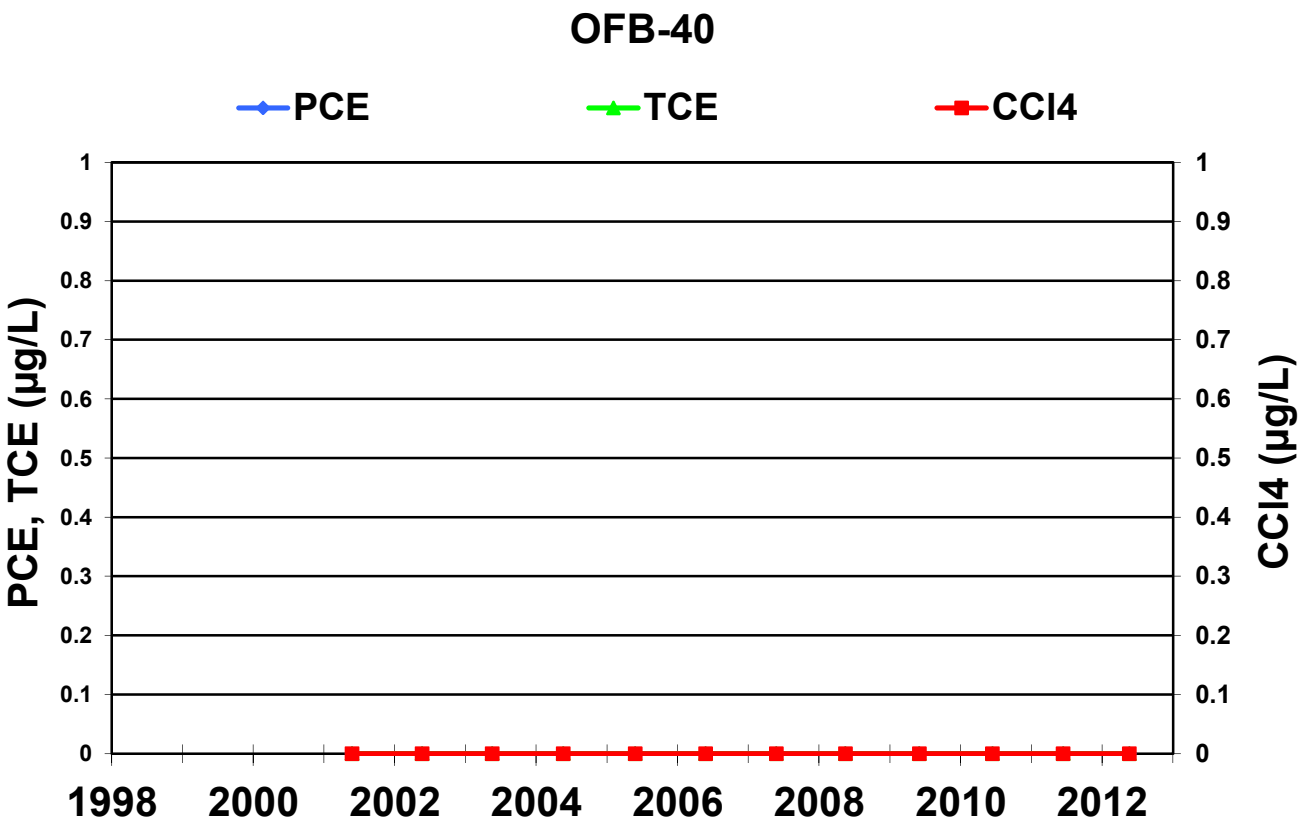

OFB-24
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
10
9
8
7
6
5
4
3
2
1
0
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

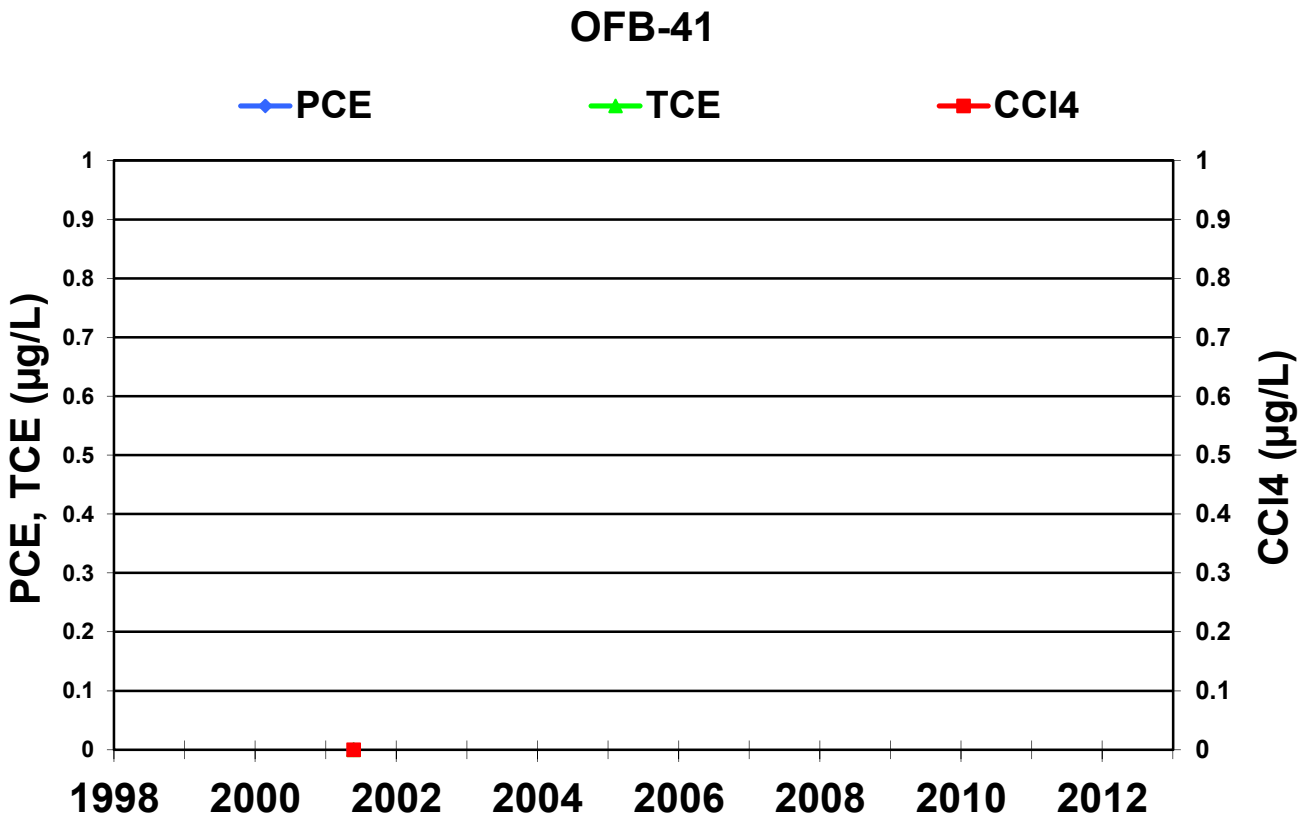

OFB-27
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

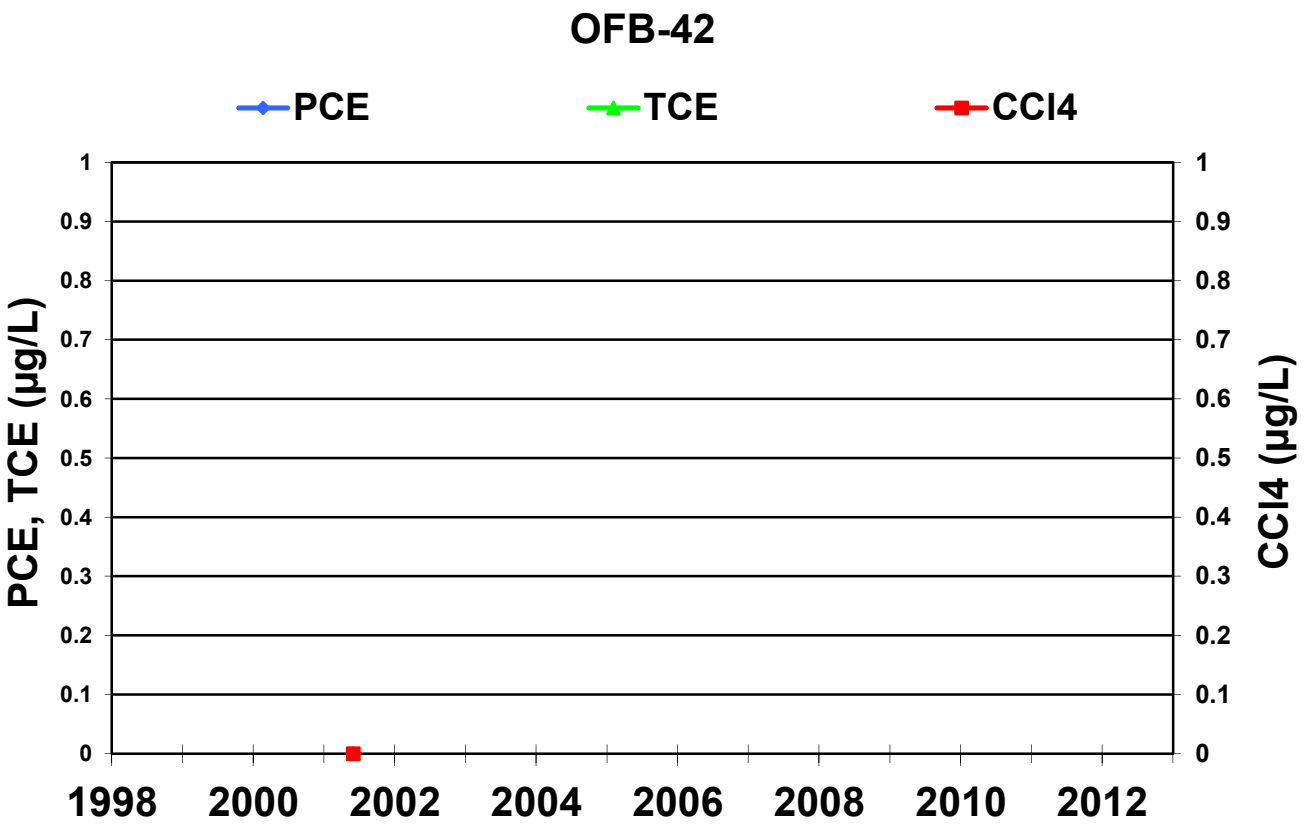

OFB-31
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

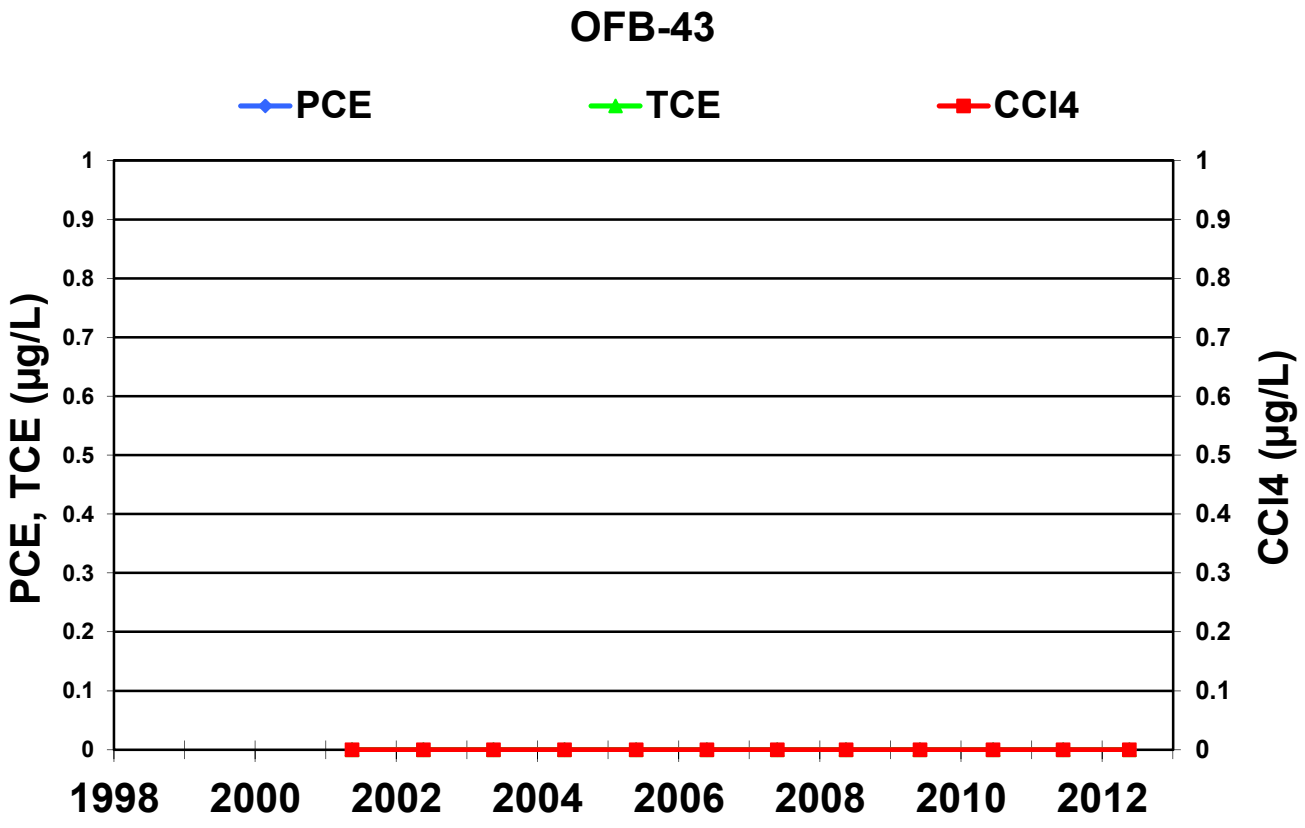

OFB-32
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.12
0.1
0.08
0.06
0.04
0.02
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

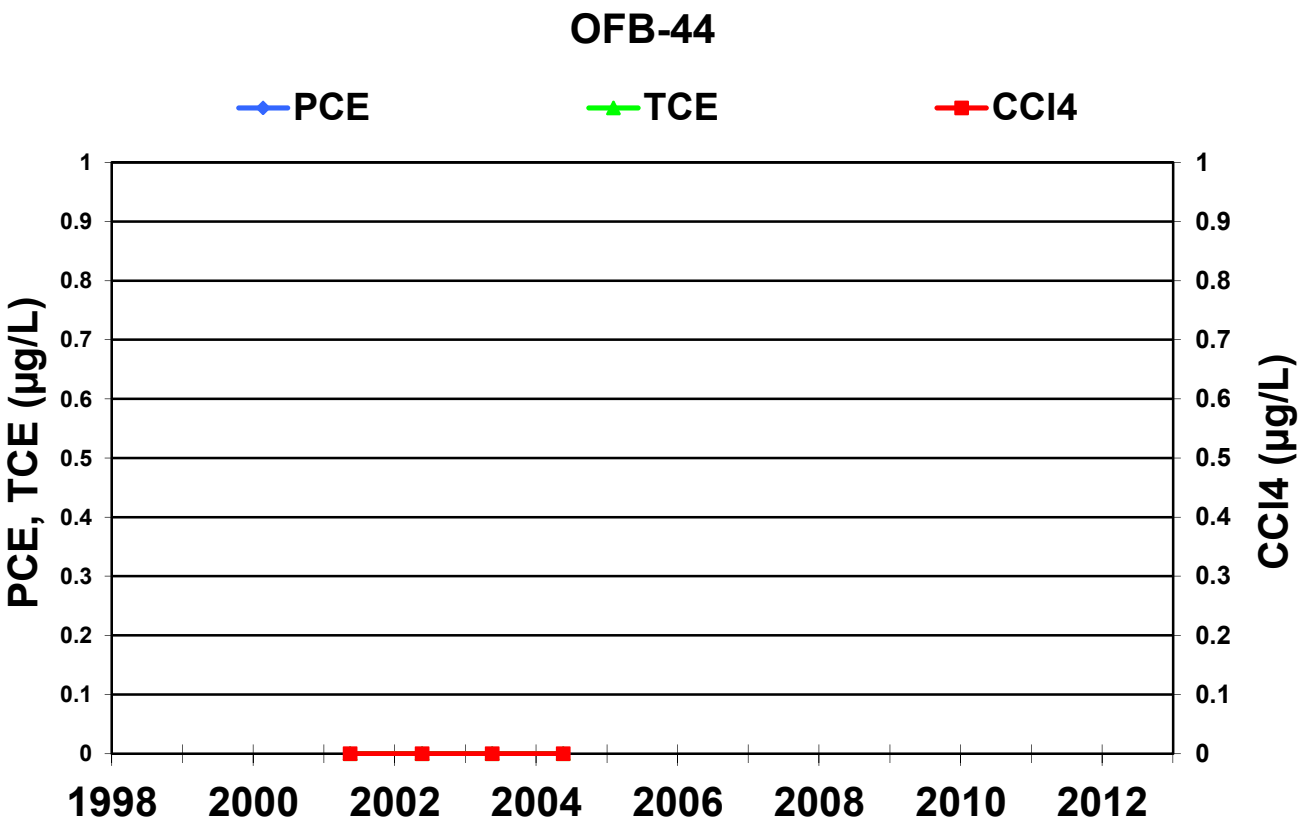

OFB-39
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

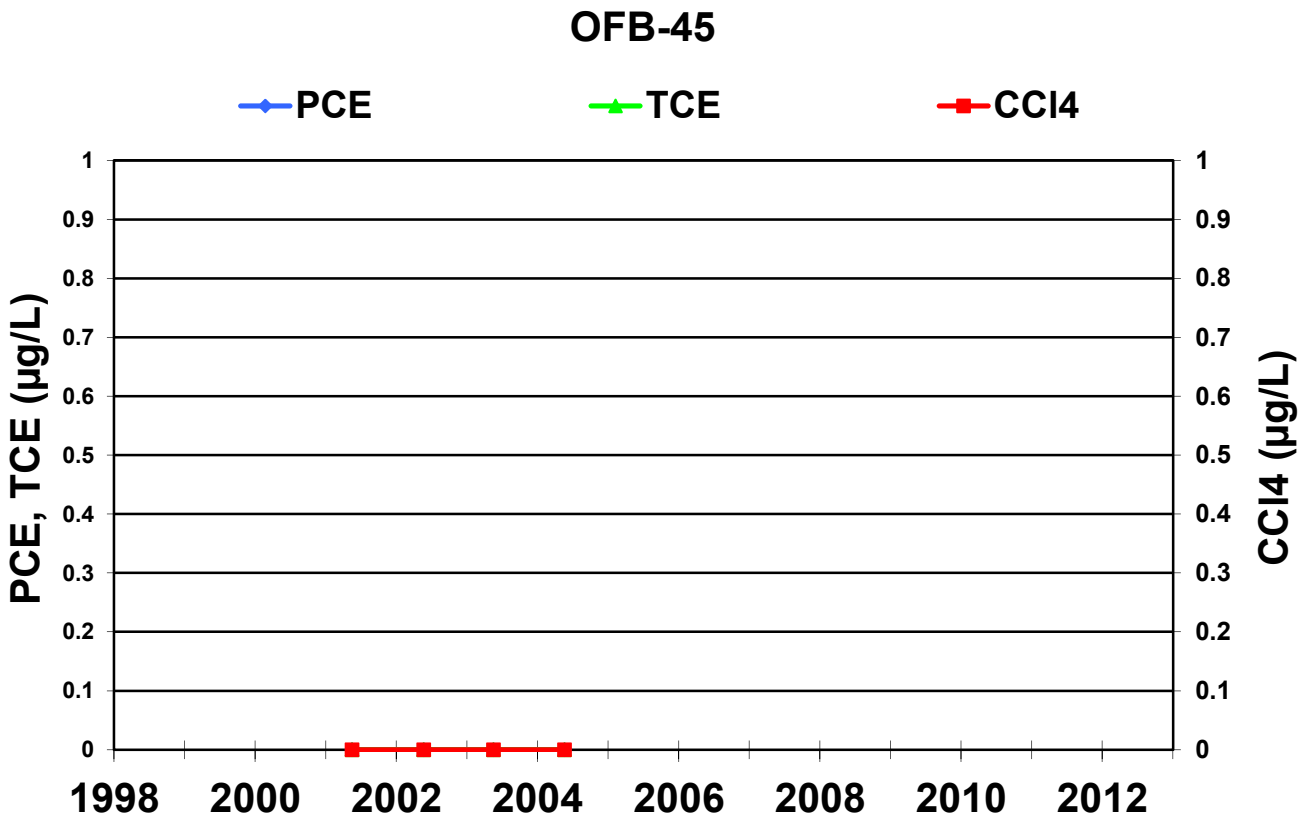

OFB-40
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

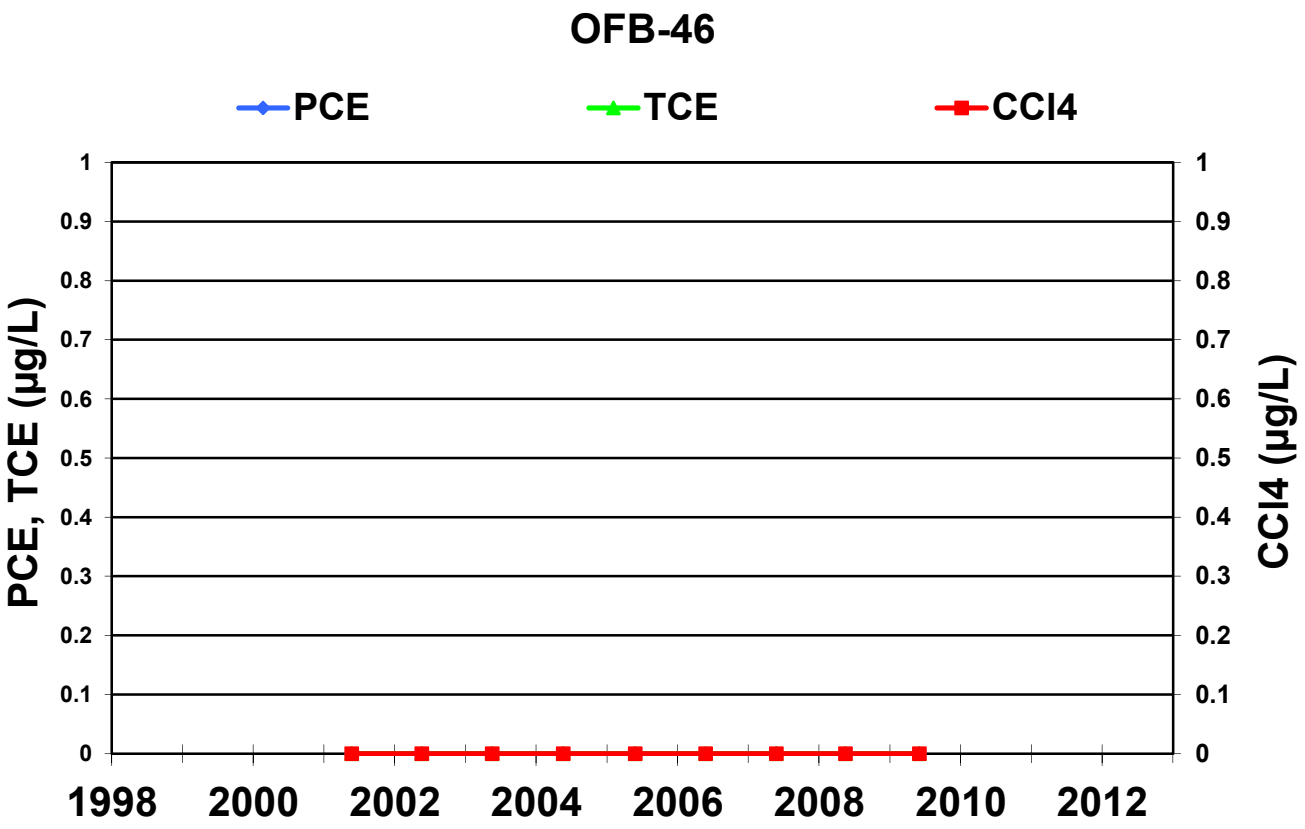

OFB-41
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

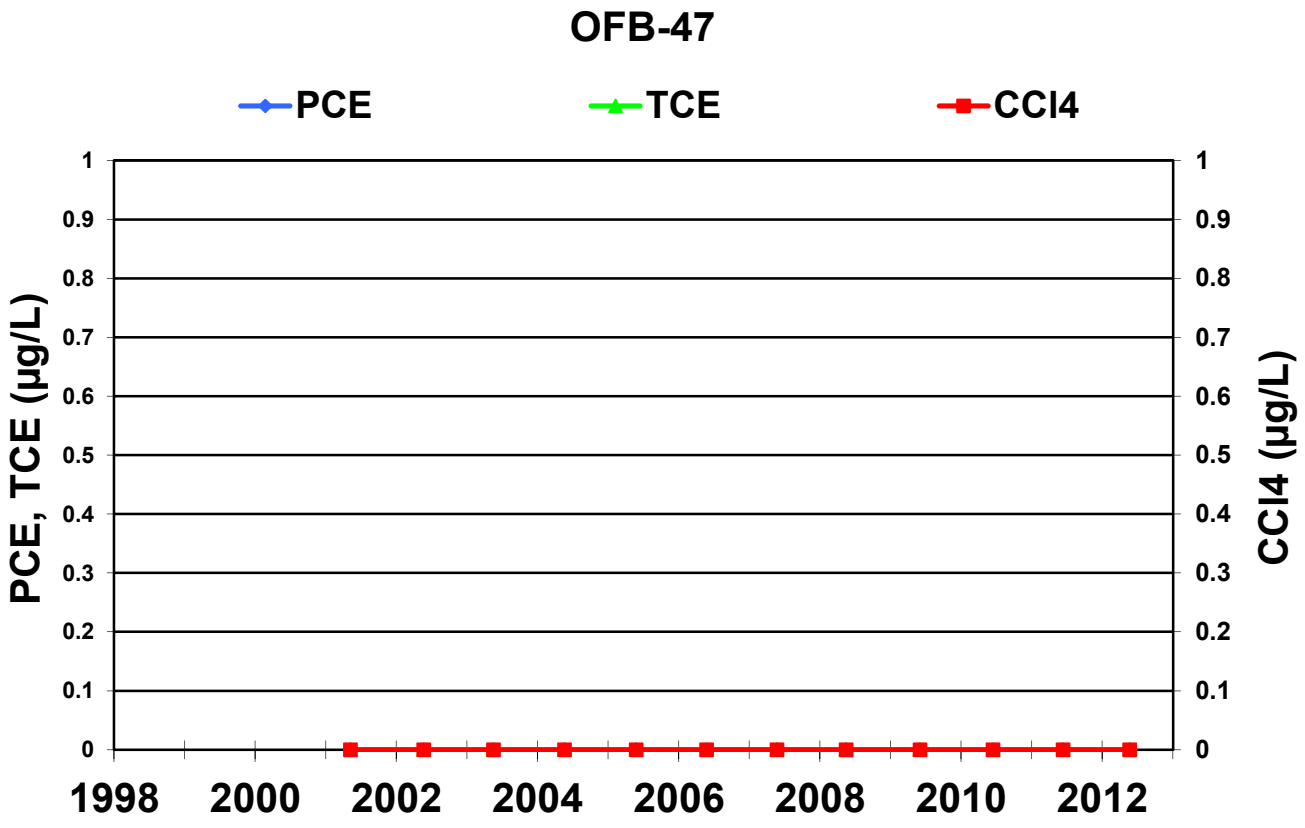

OFB-42
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

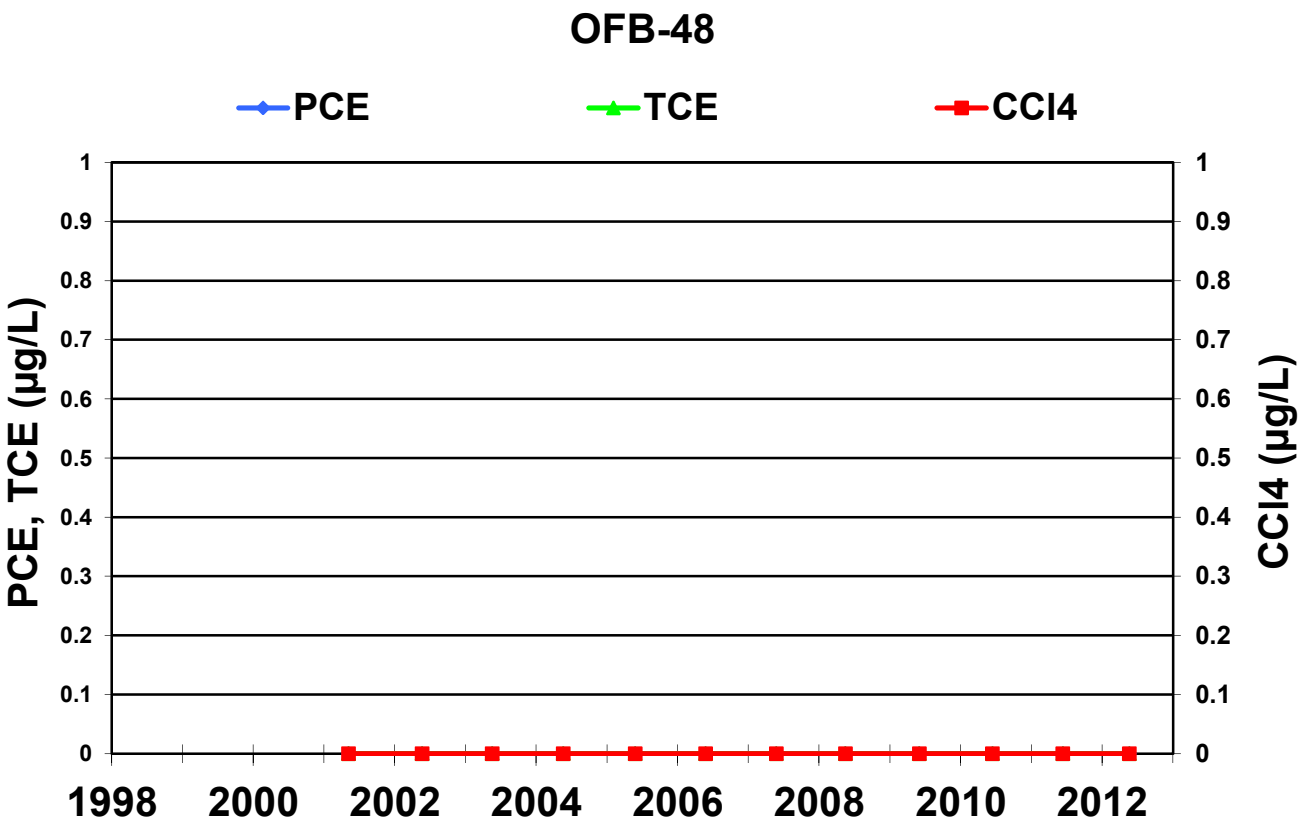

OFB-43
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

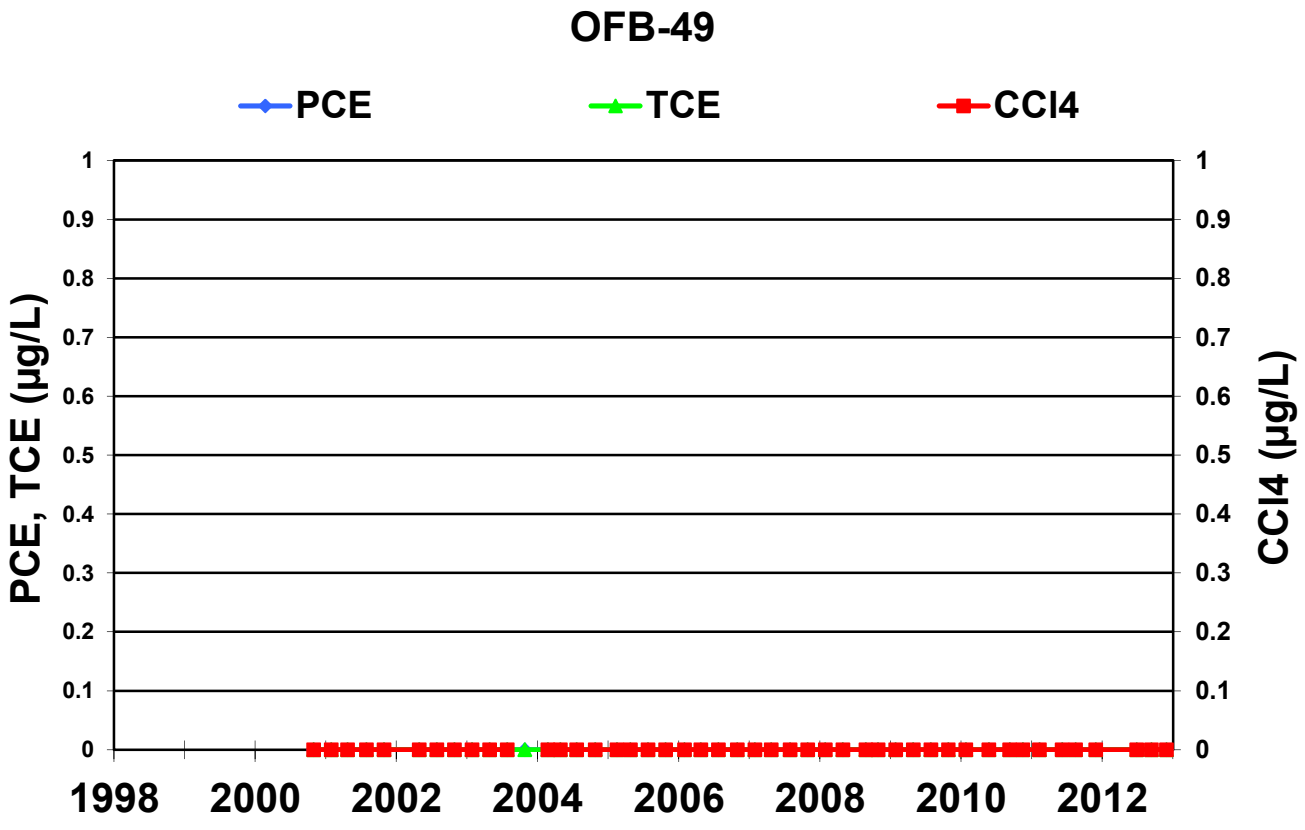

OFB-44
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

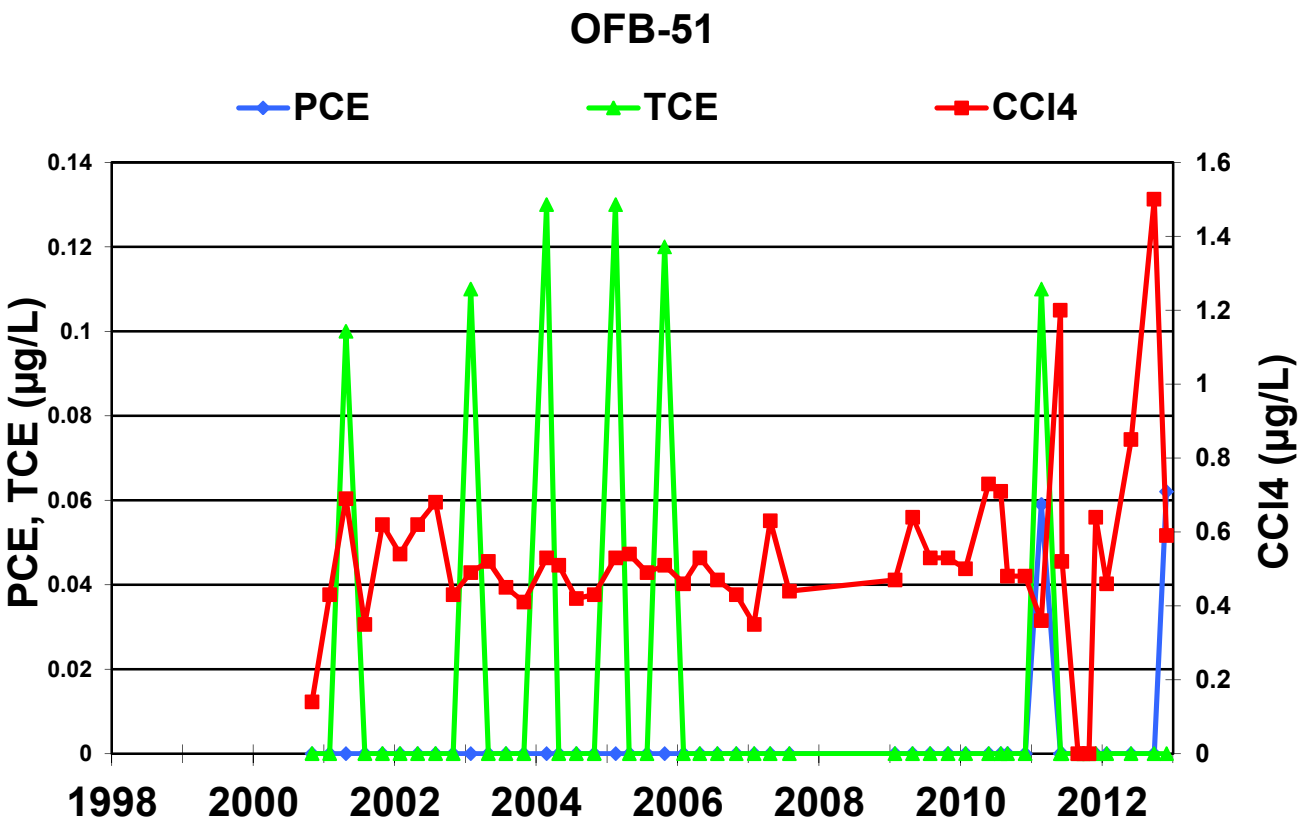

OFB-45
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

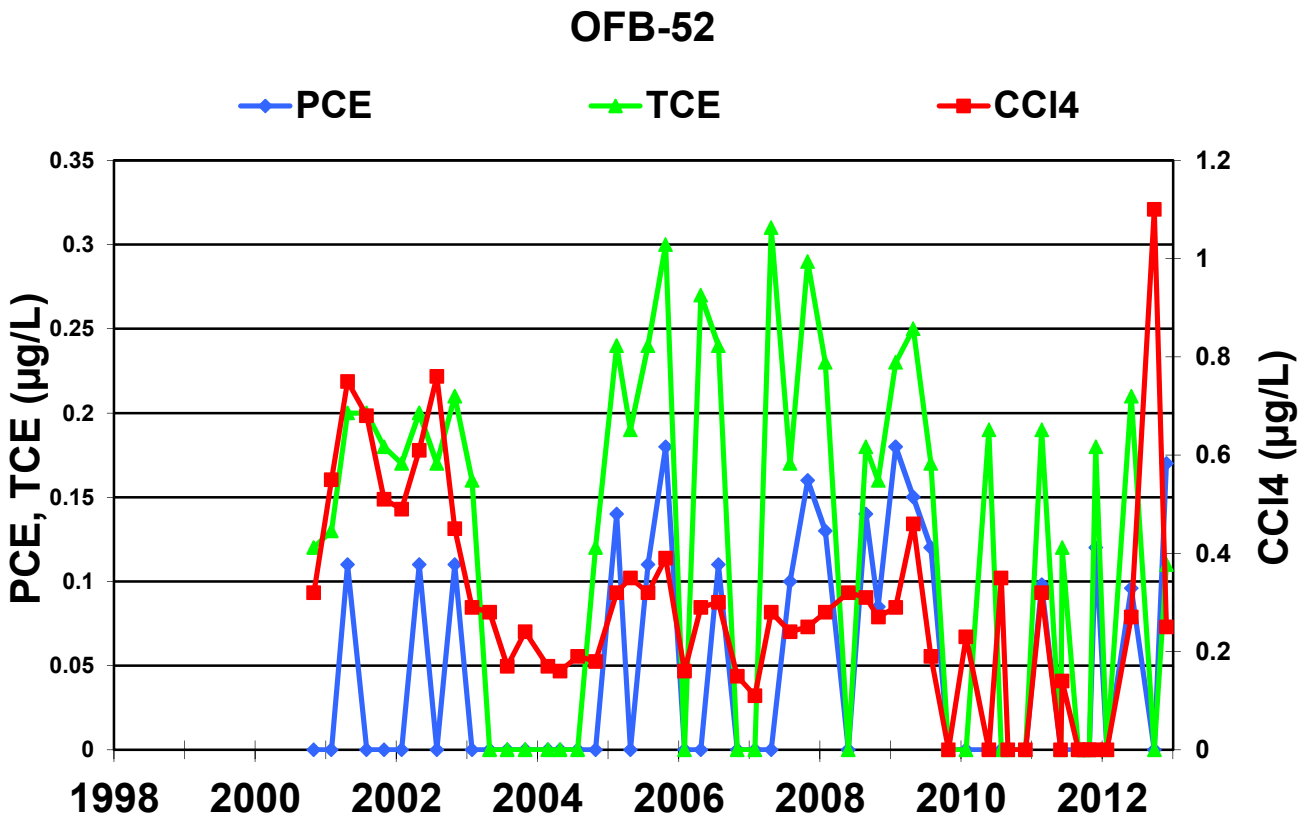

OFB-46
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

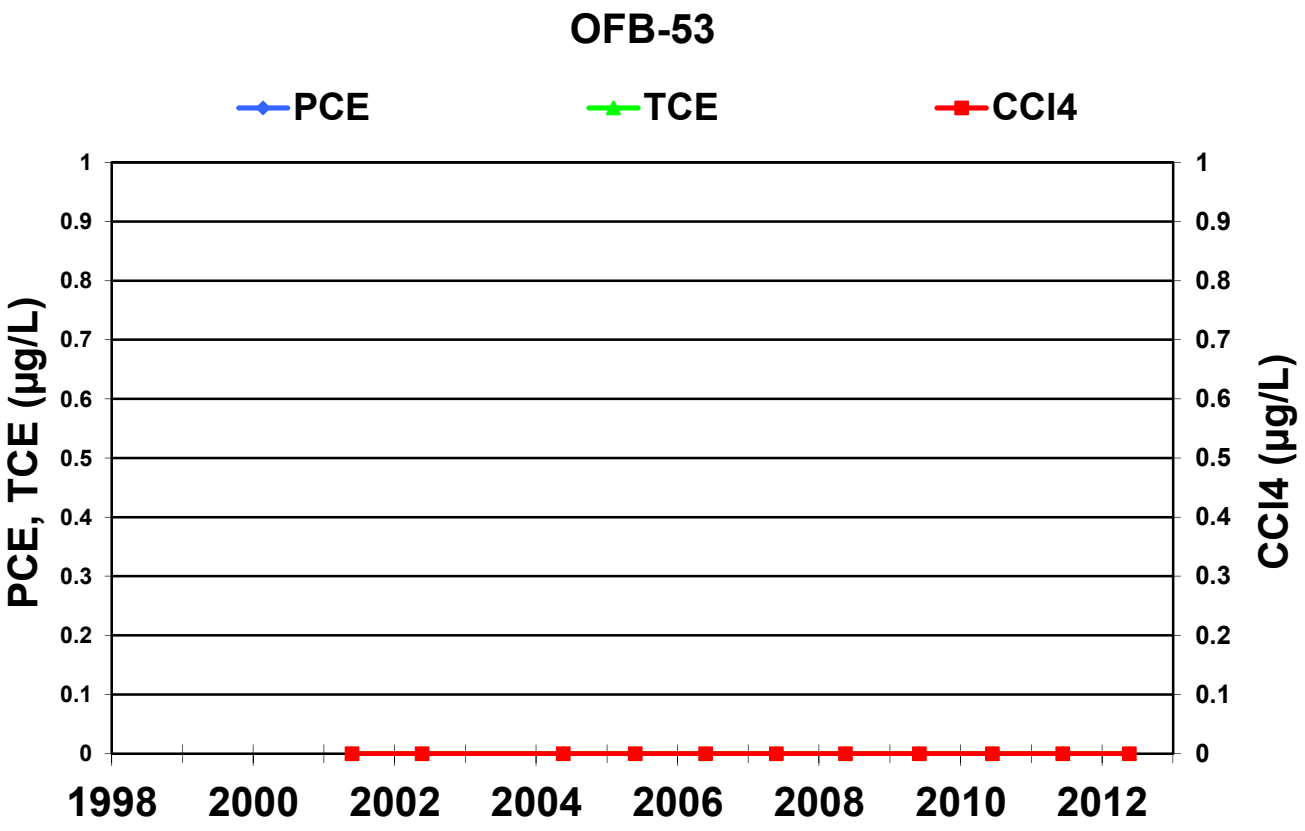

OFB-47
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

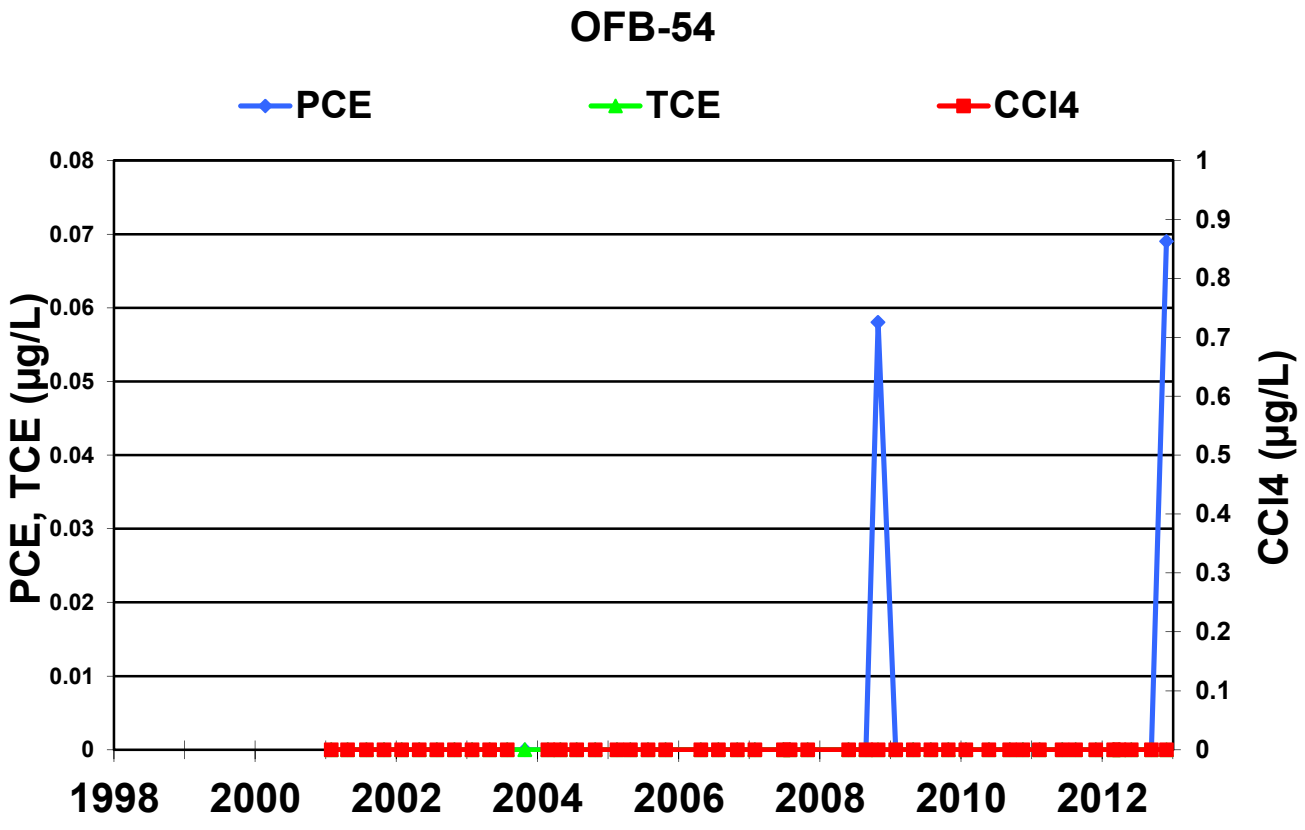

OFB-48
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

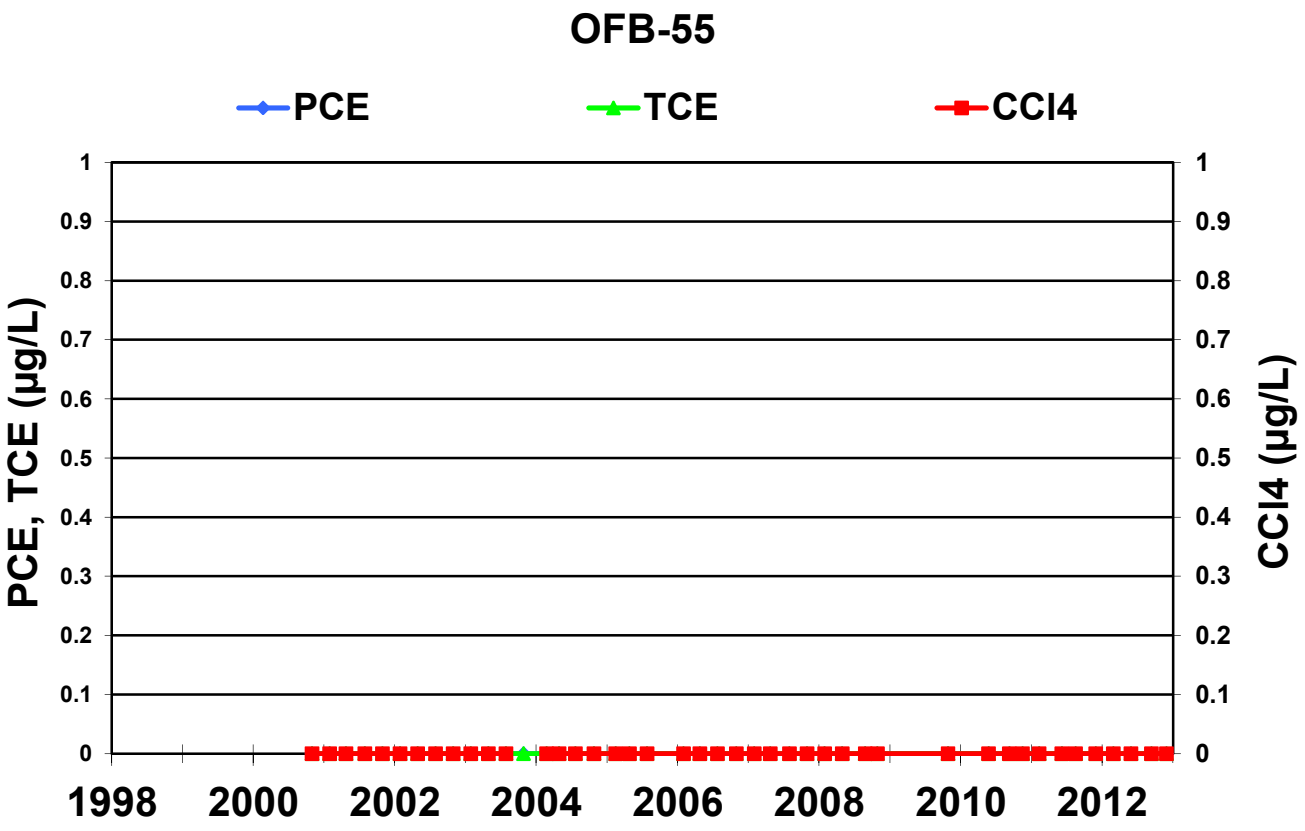

OFB-49
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

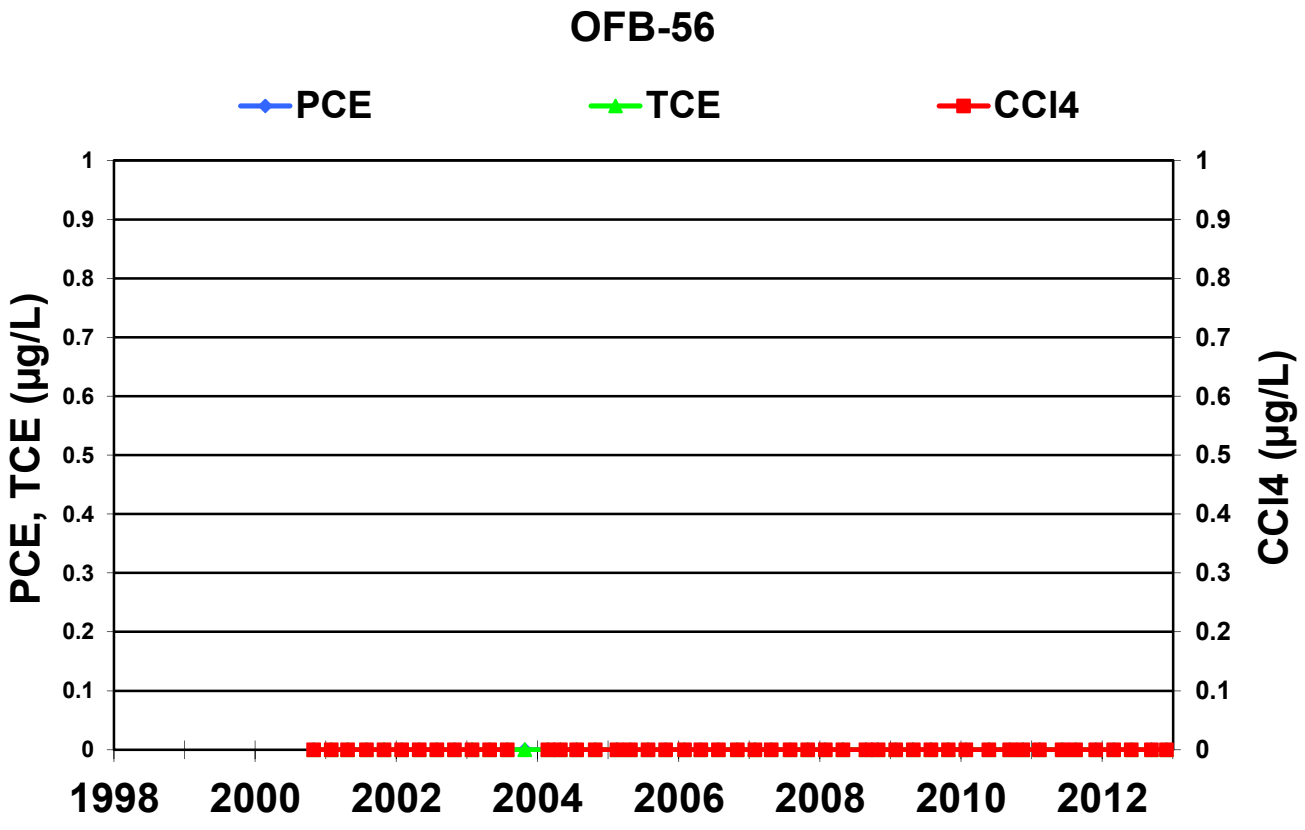

OFB-51
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

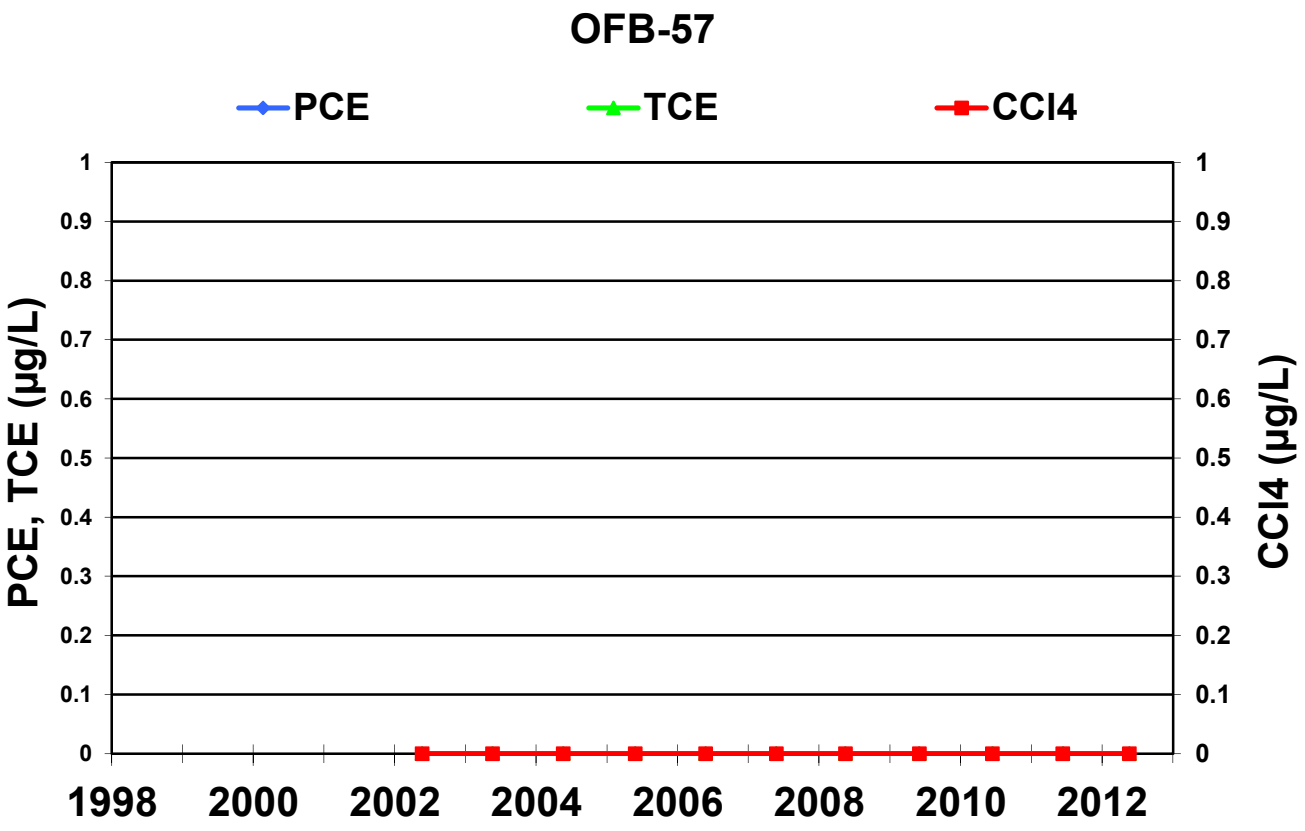

OFB-52
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1.2
1
0.8
0.6
0.4
0.2
0
1998
2000
2002
2004
2006
2008
2010
2012

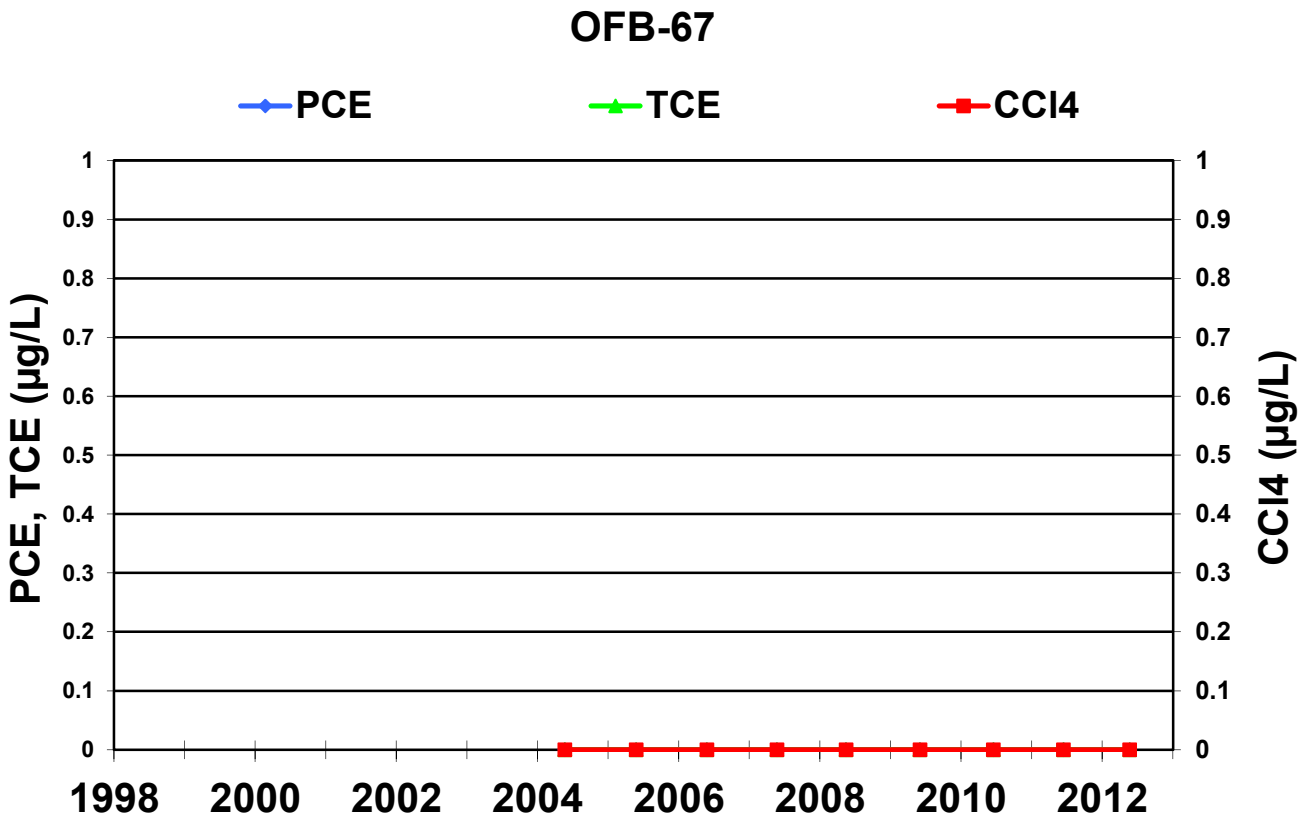

OFB-53
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

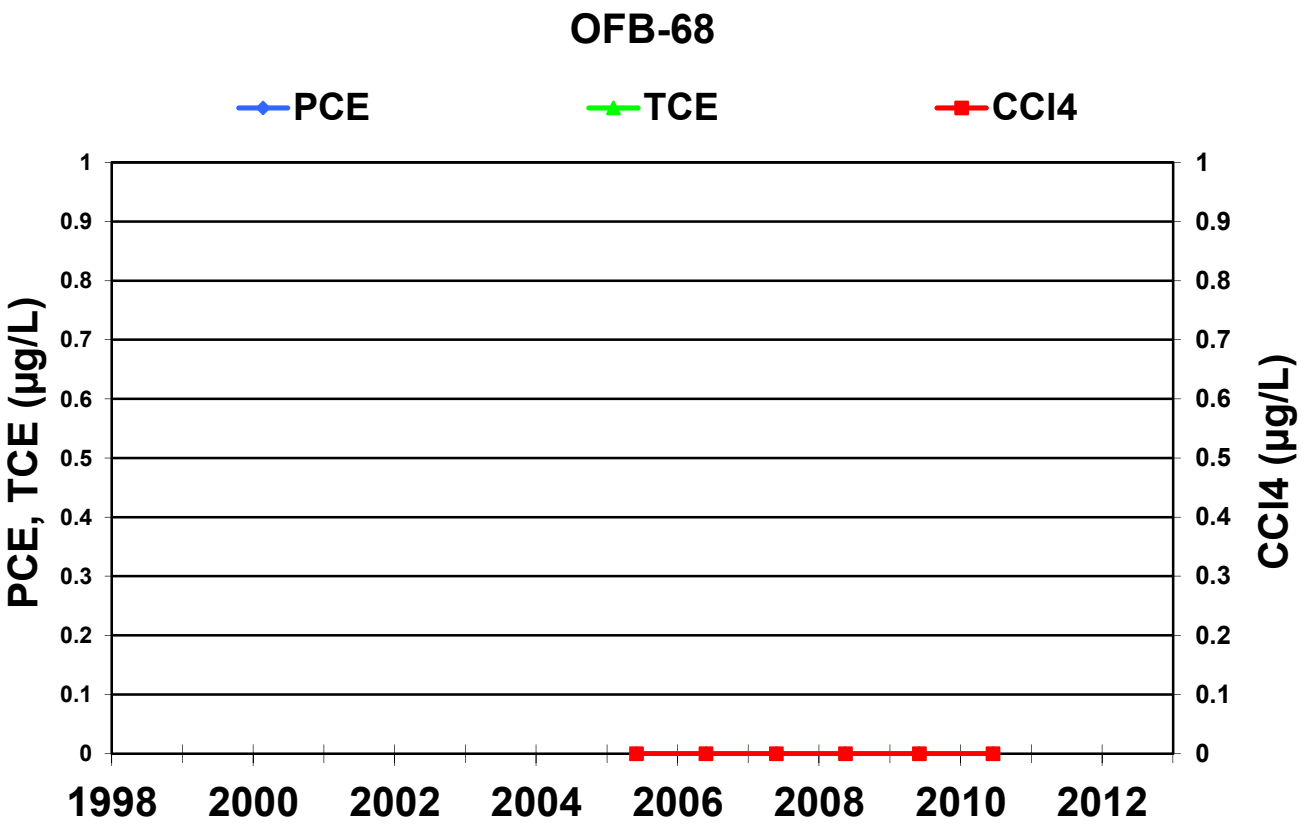

OFB-54
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

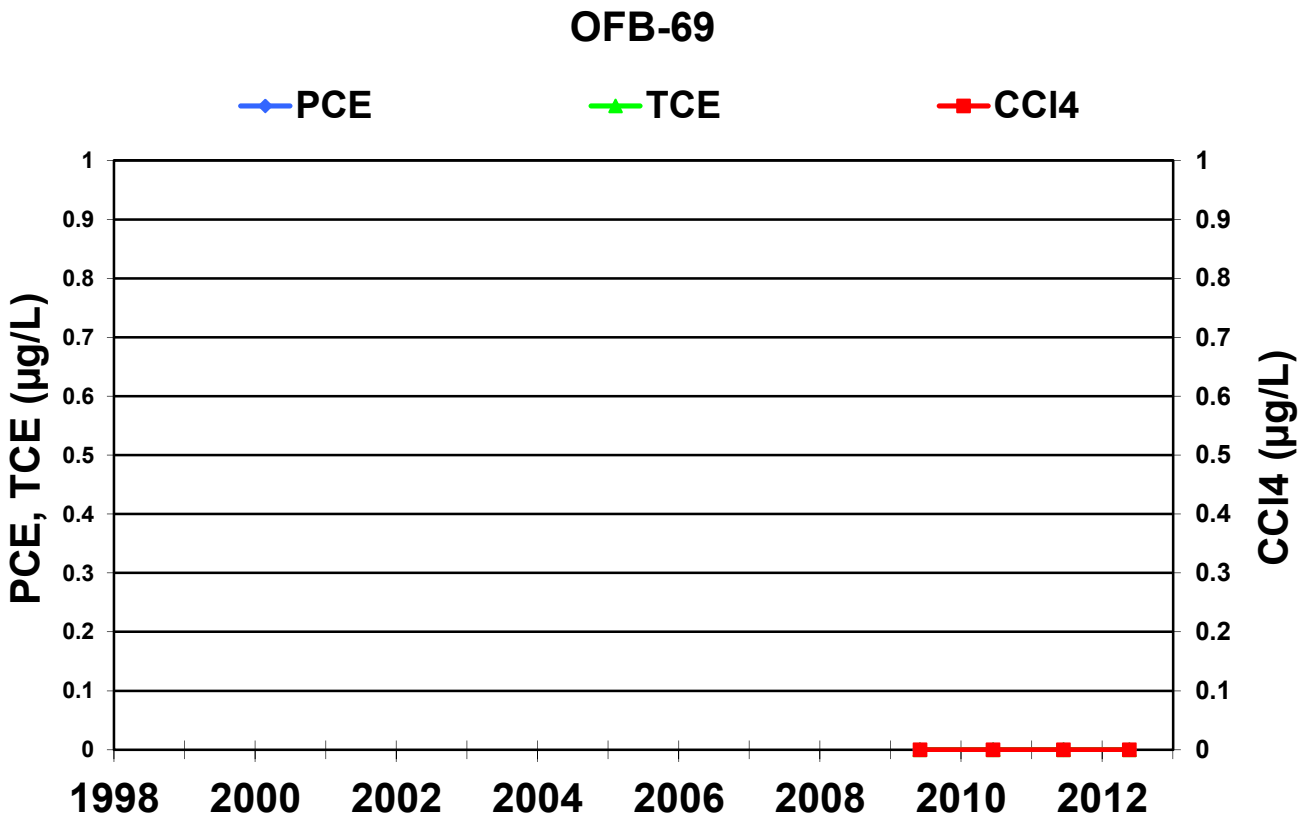

OFB-55
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

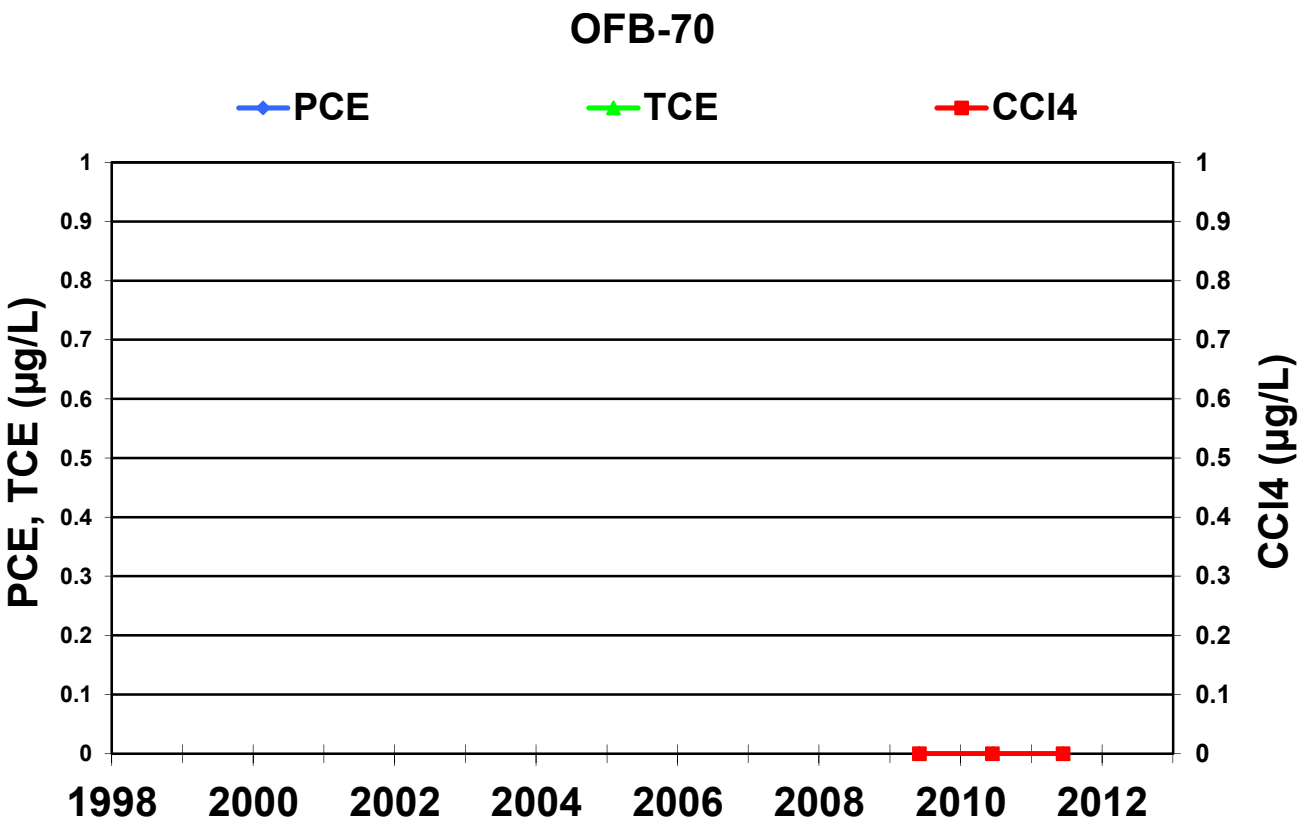

OFB-56
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

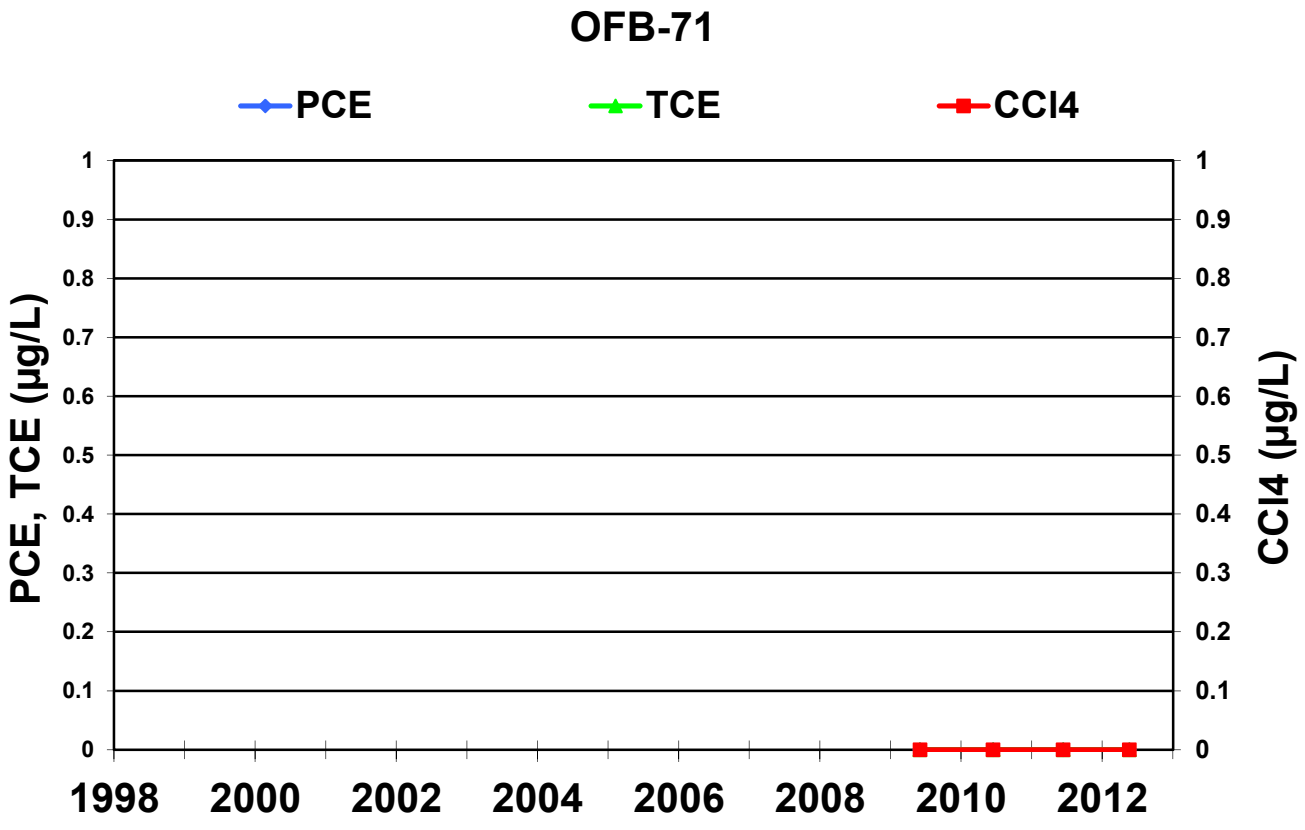

OFB-57
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

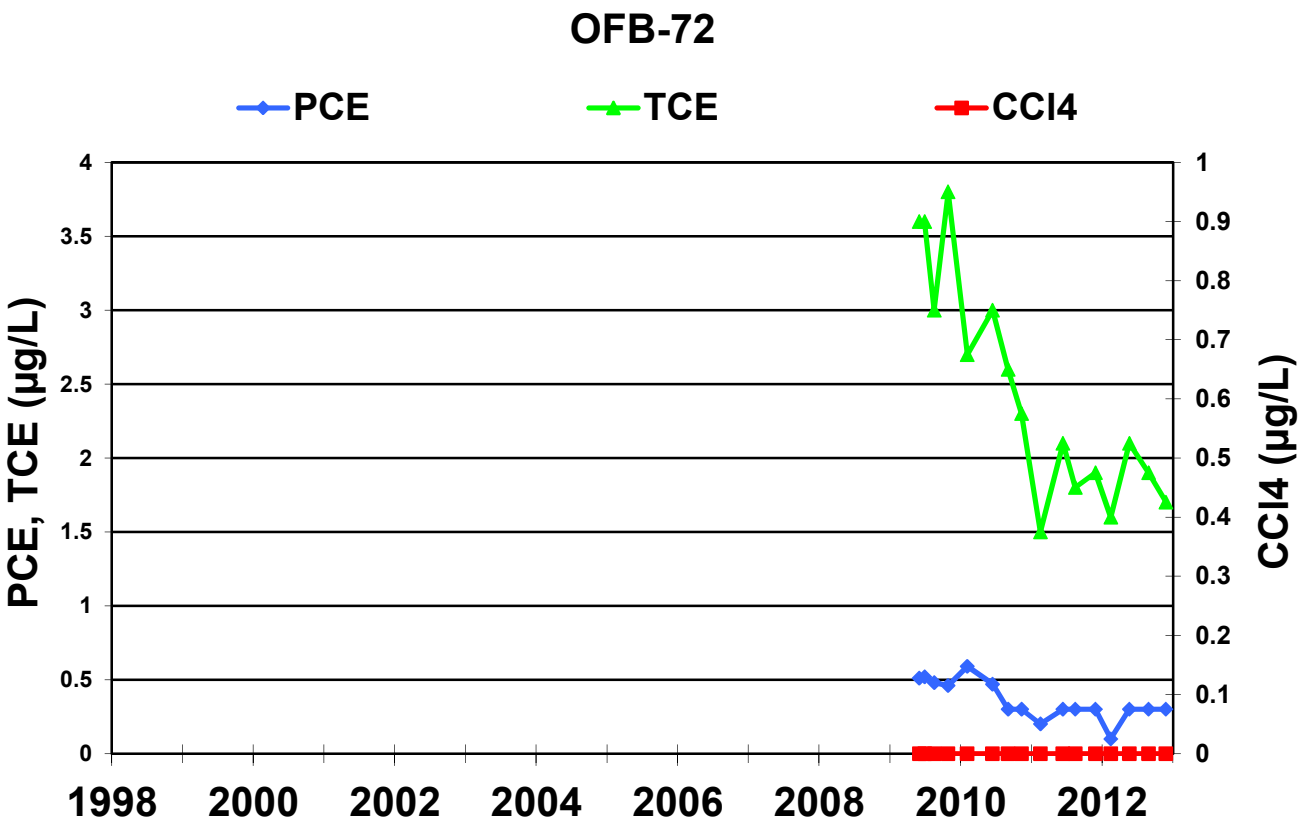

OFB-67
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

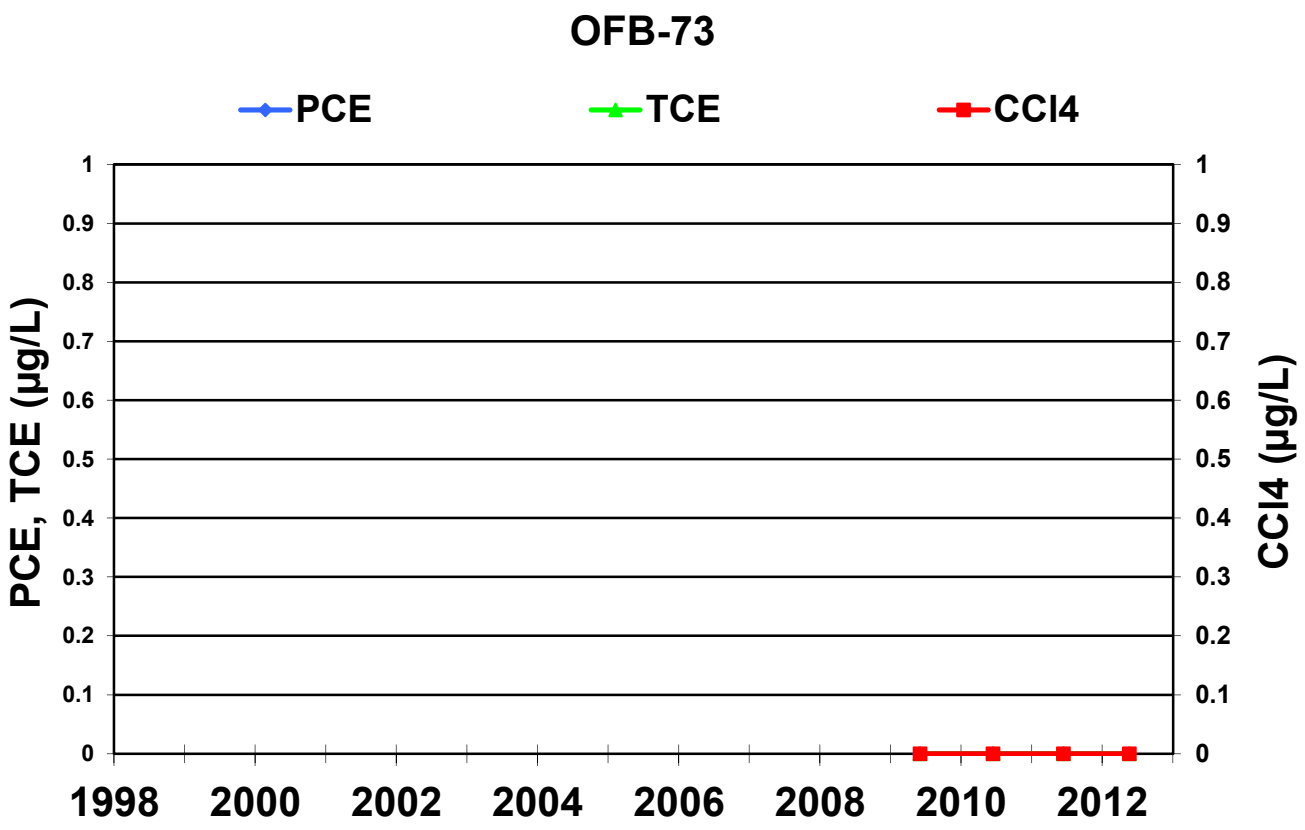

OFB-68
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

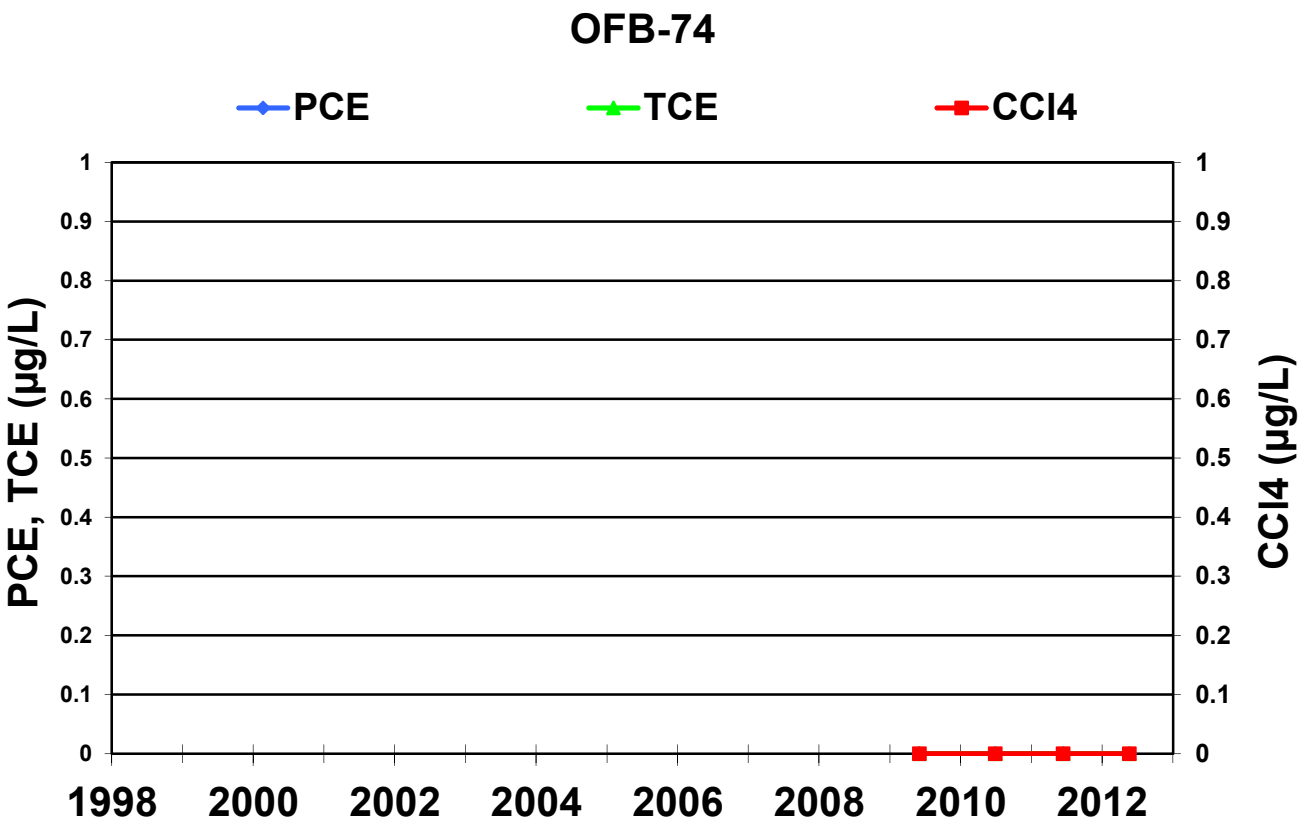

OFB-69
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

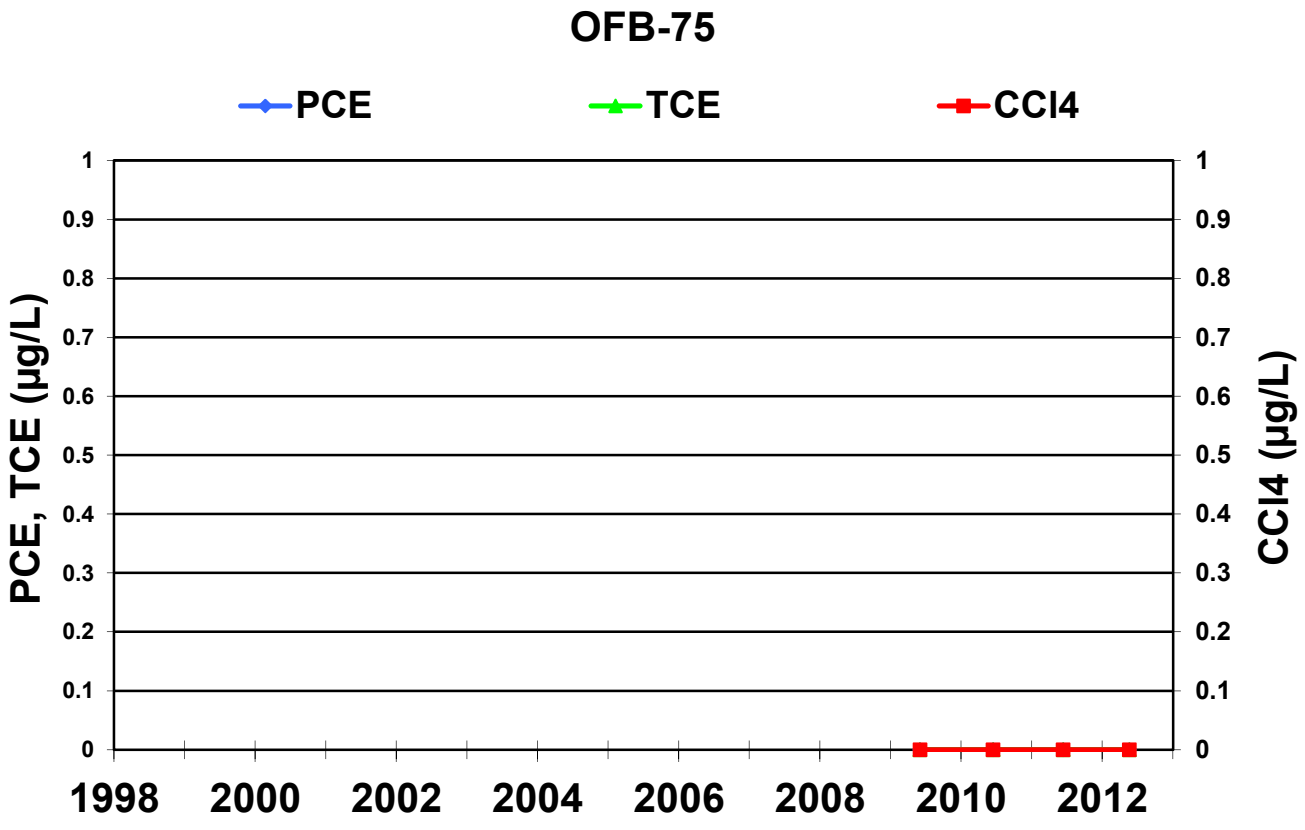

OFB-70
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

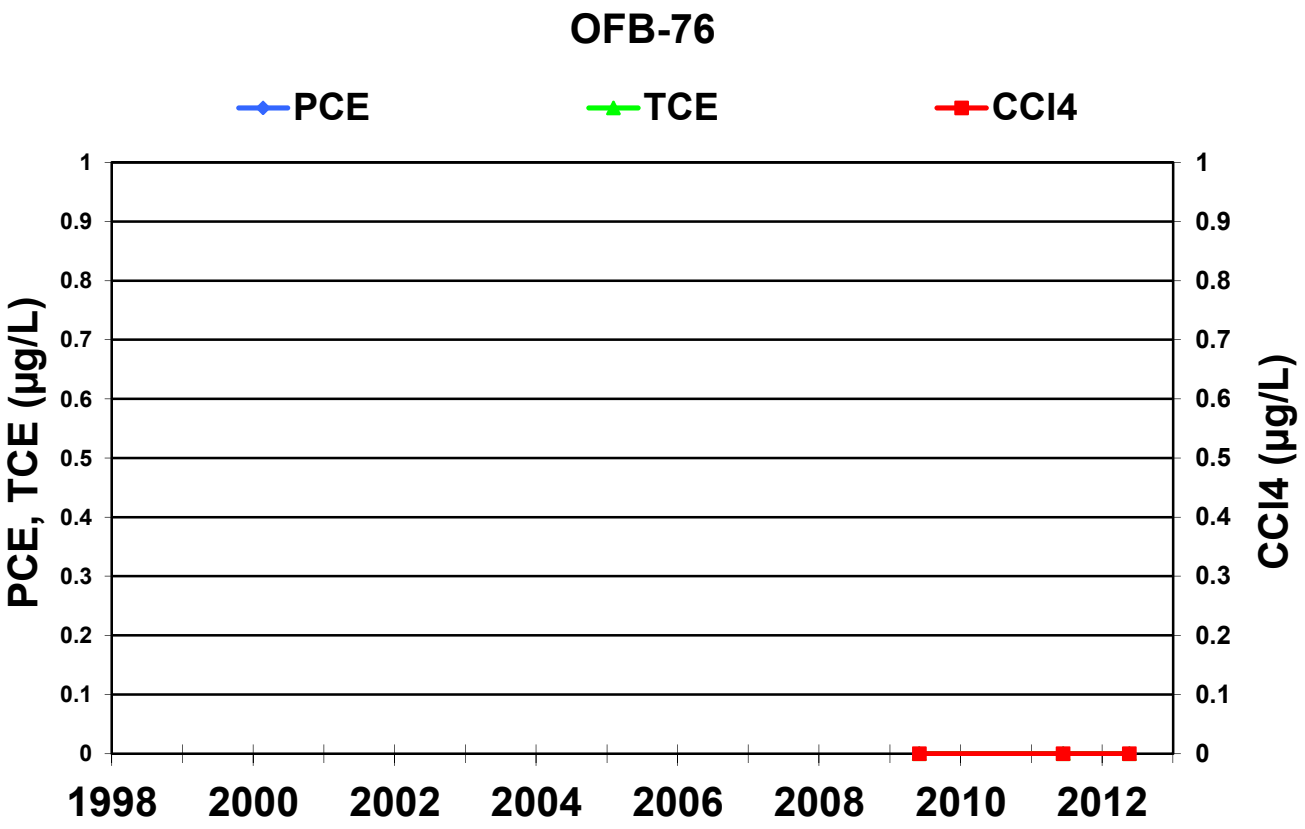

OFB-71
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

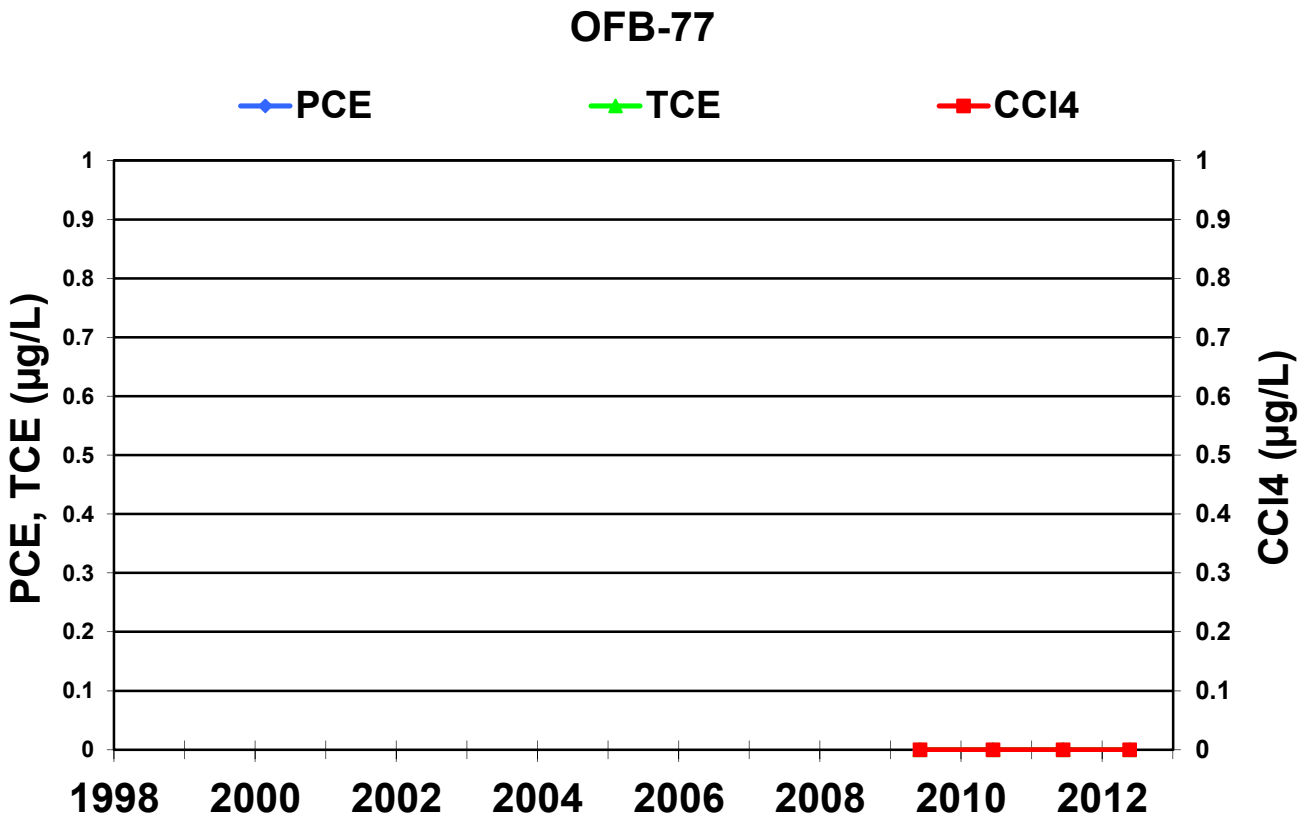

OFB-72
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

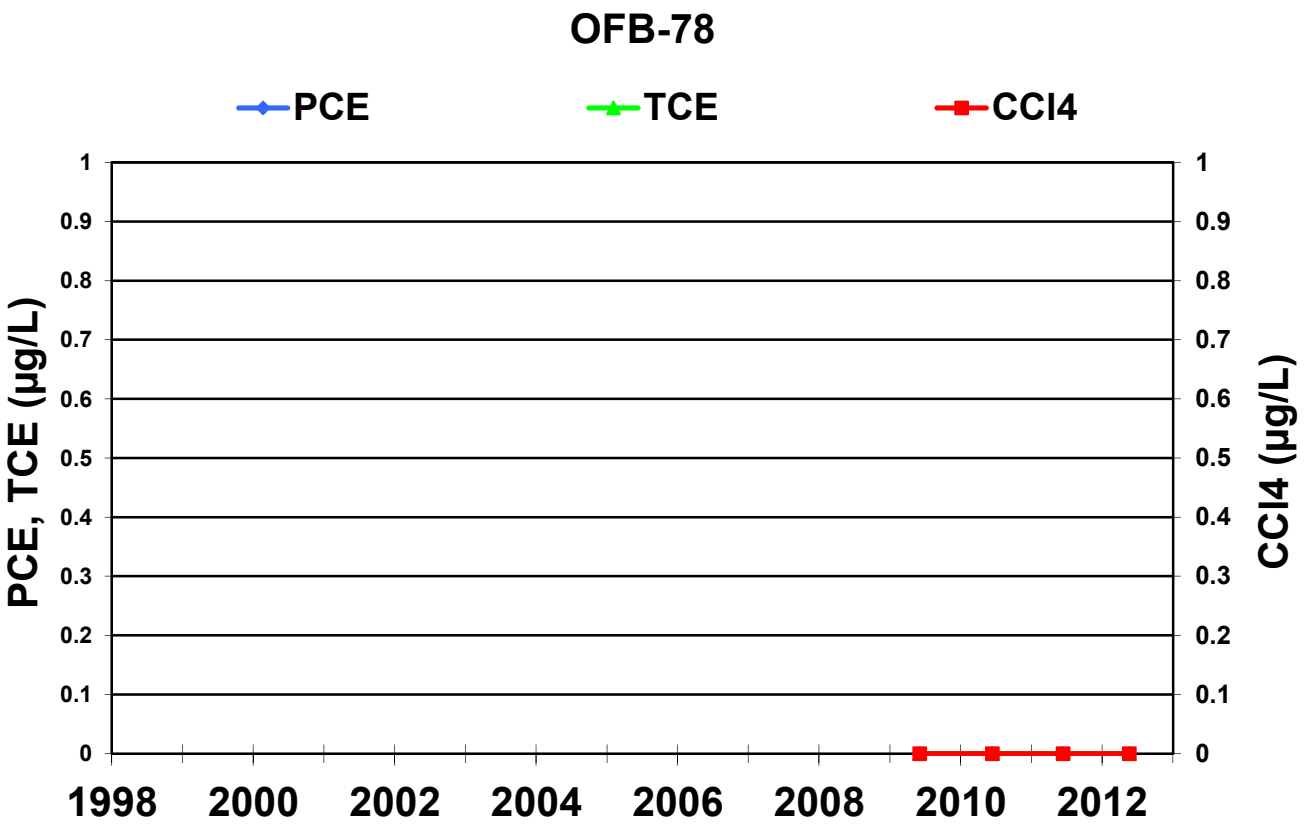

OFB-73
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

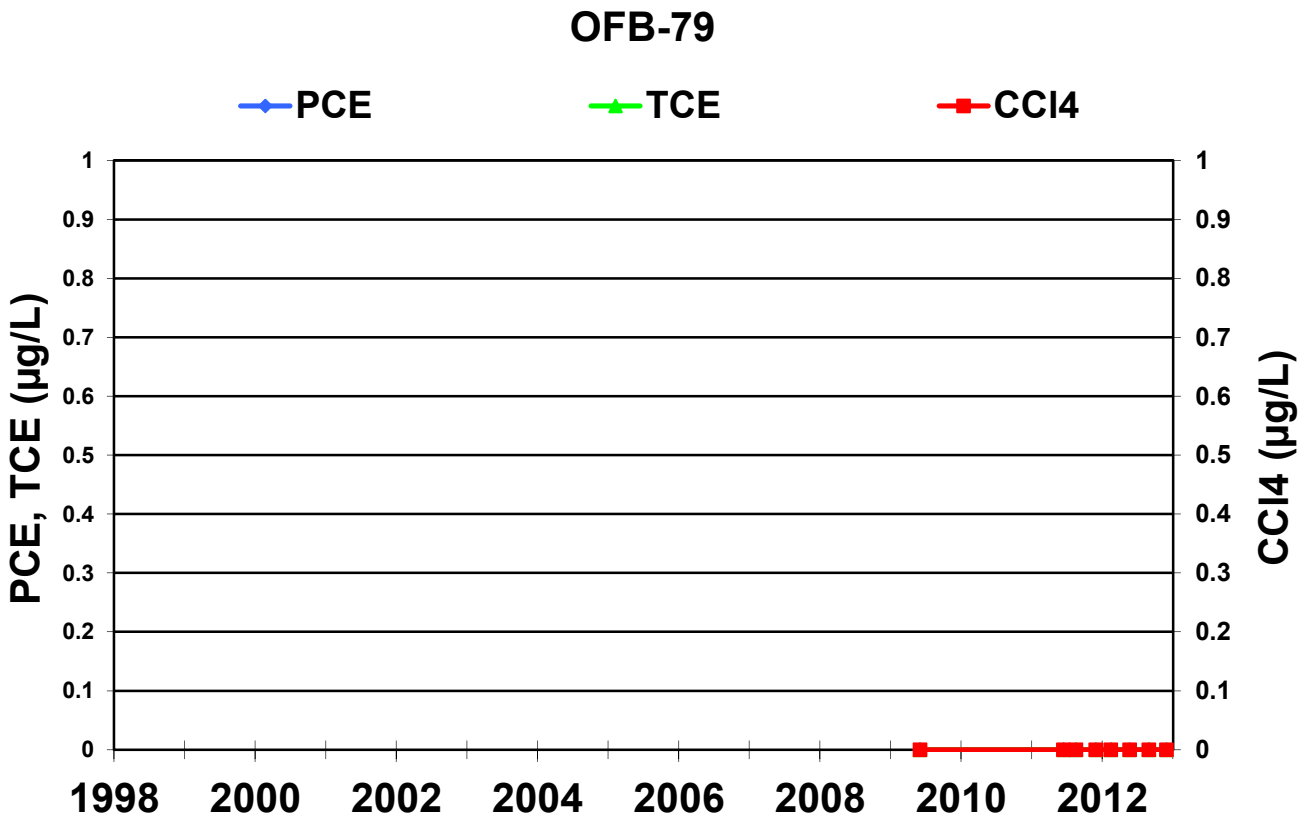

OFB-74
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

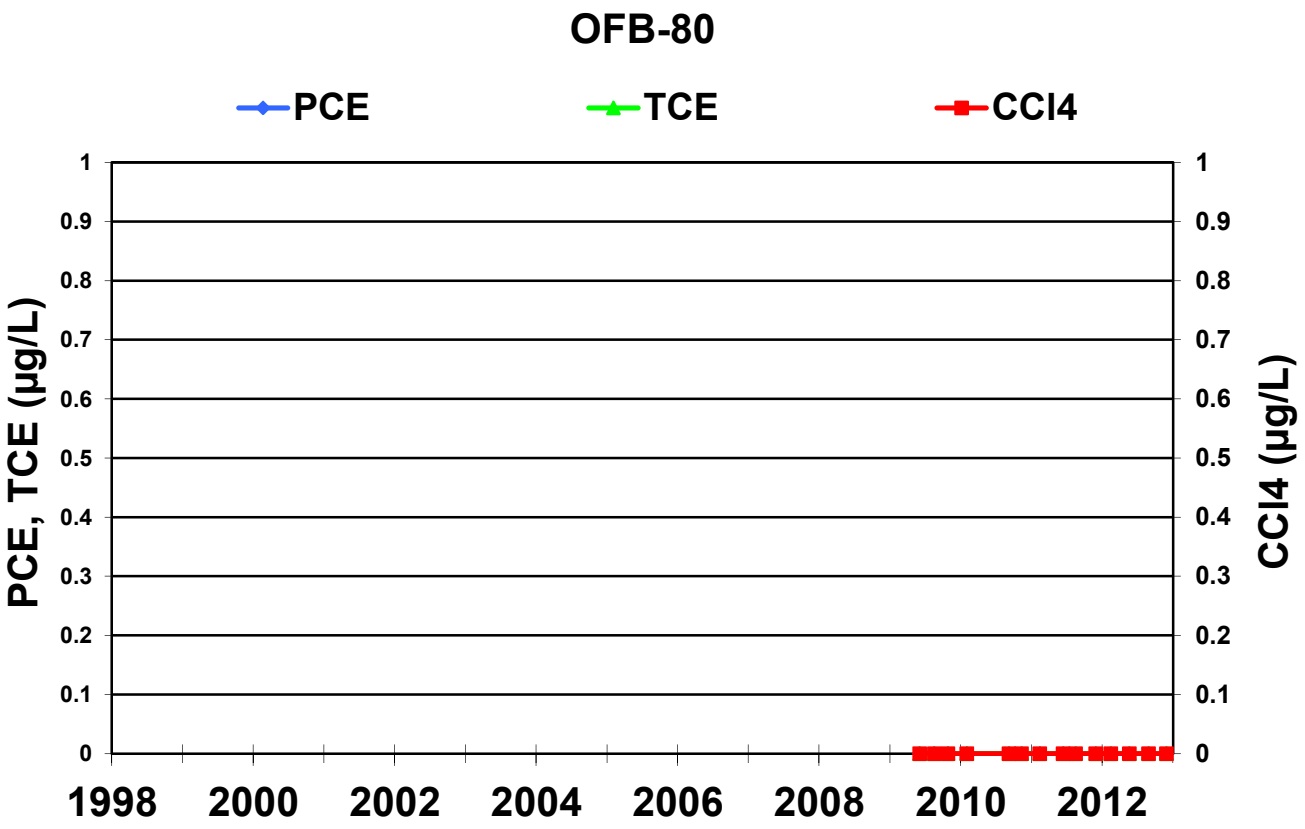

OFB-75
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

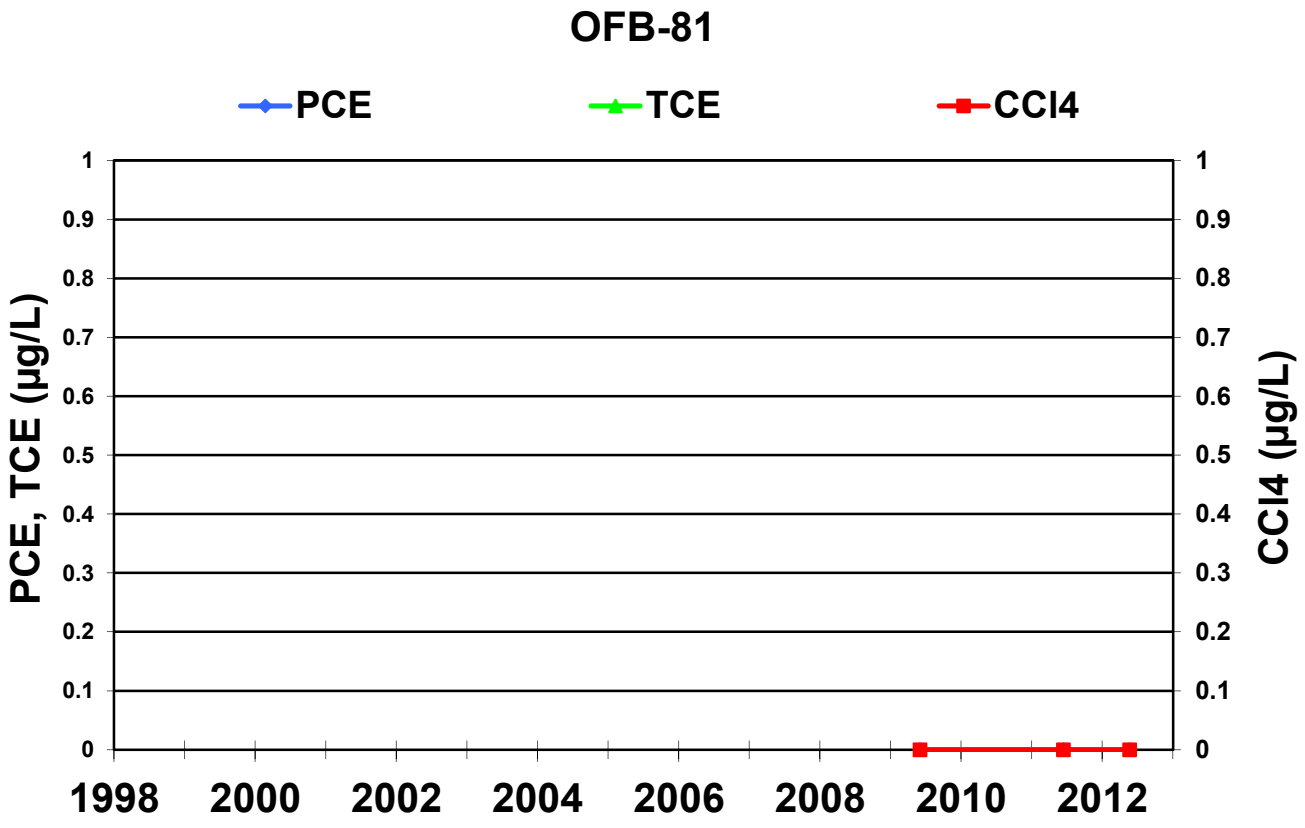

OFB-76
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

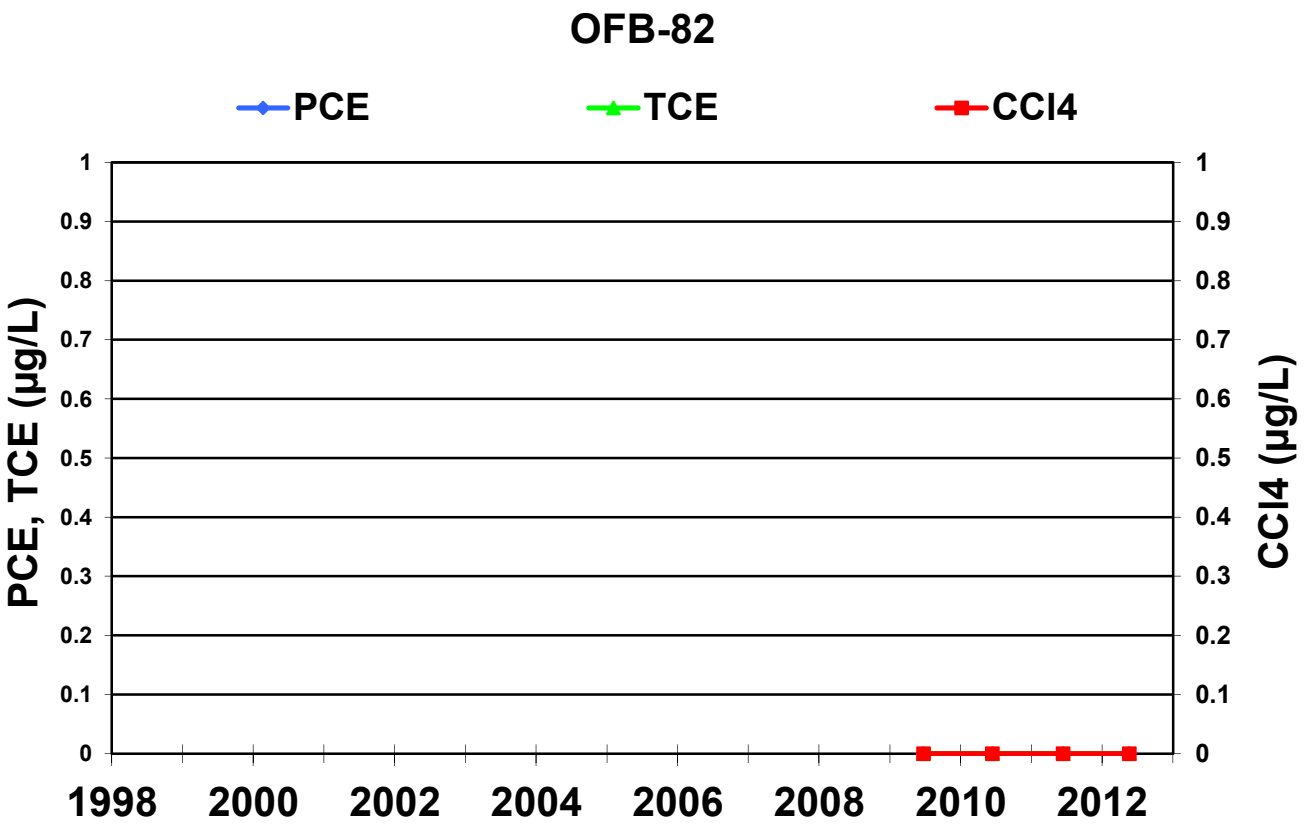

OFB-77
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

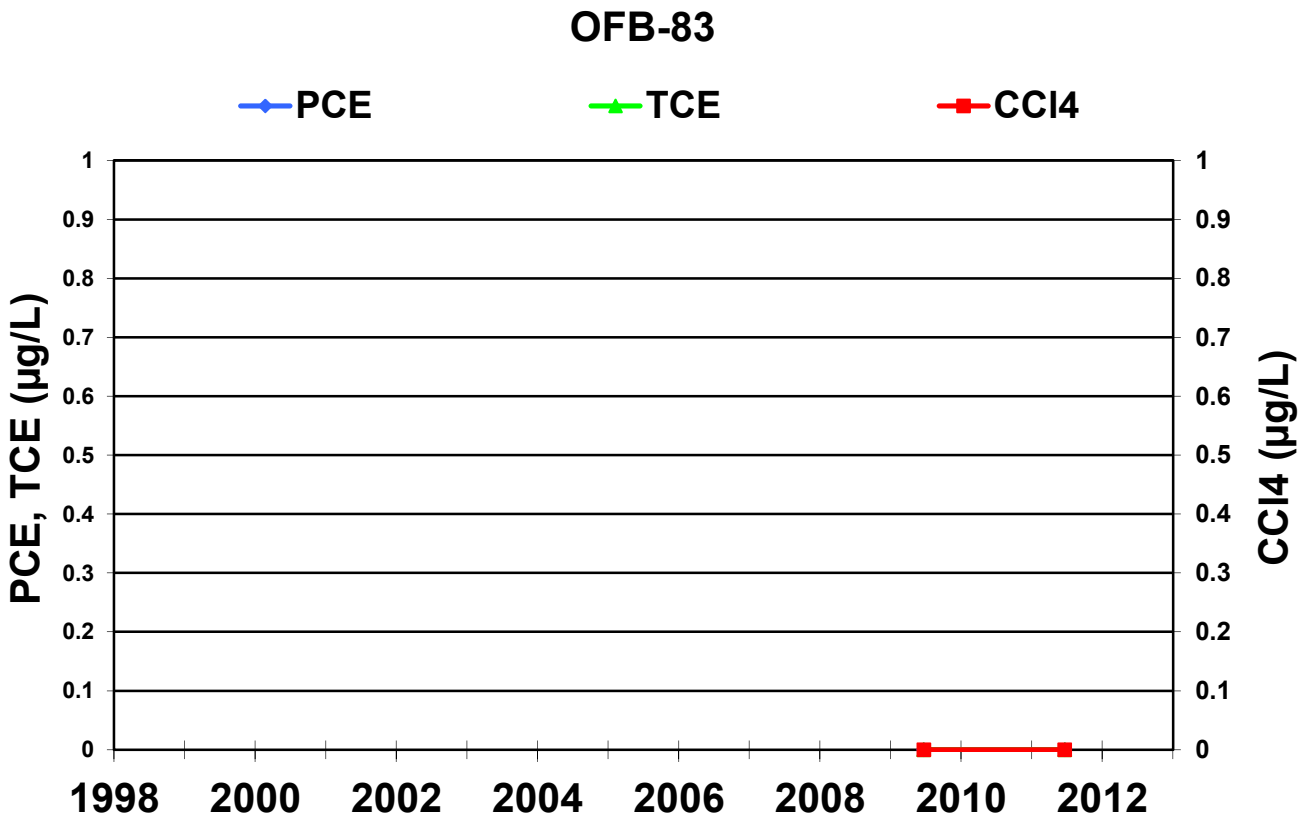

OFB-78
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

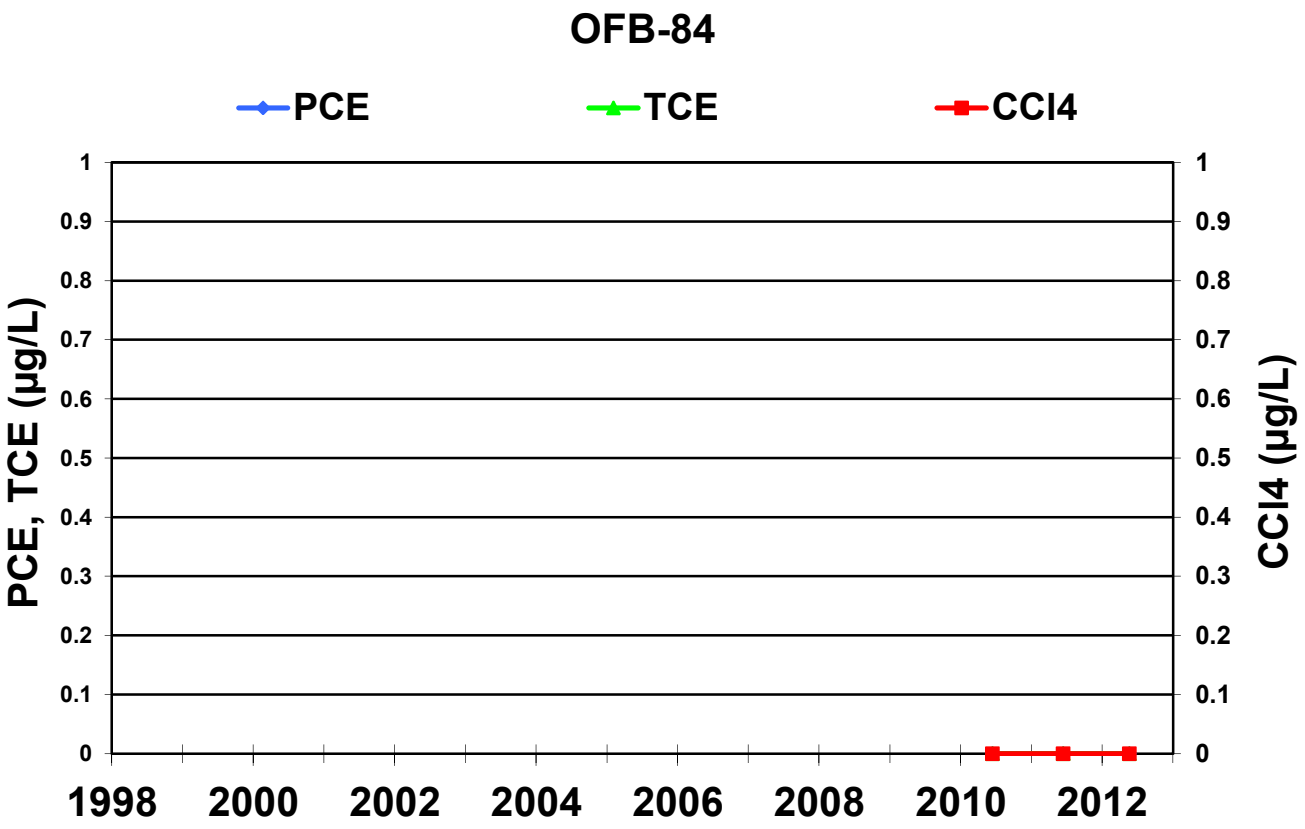

OFB-79
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

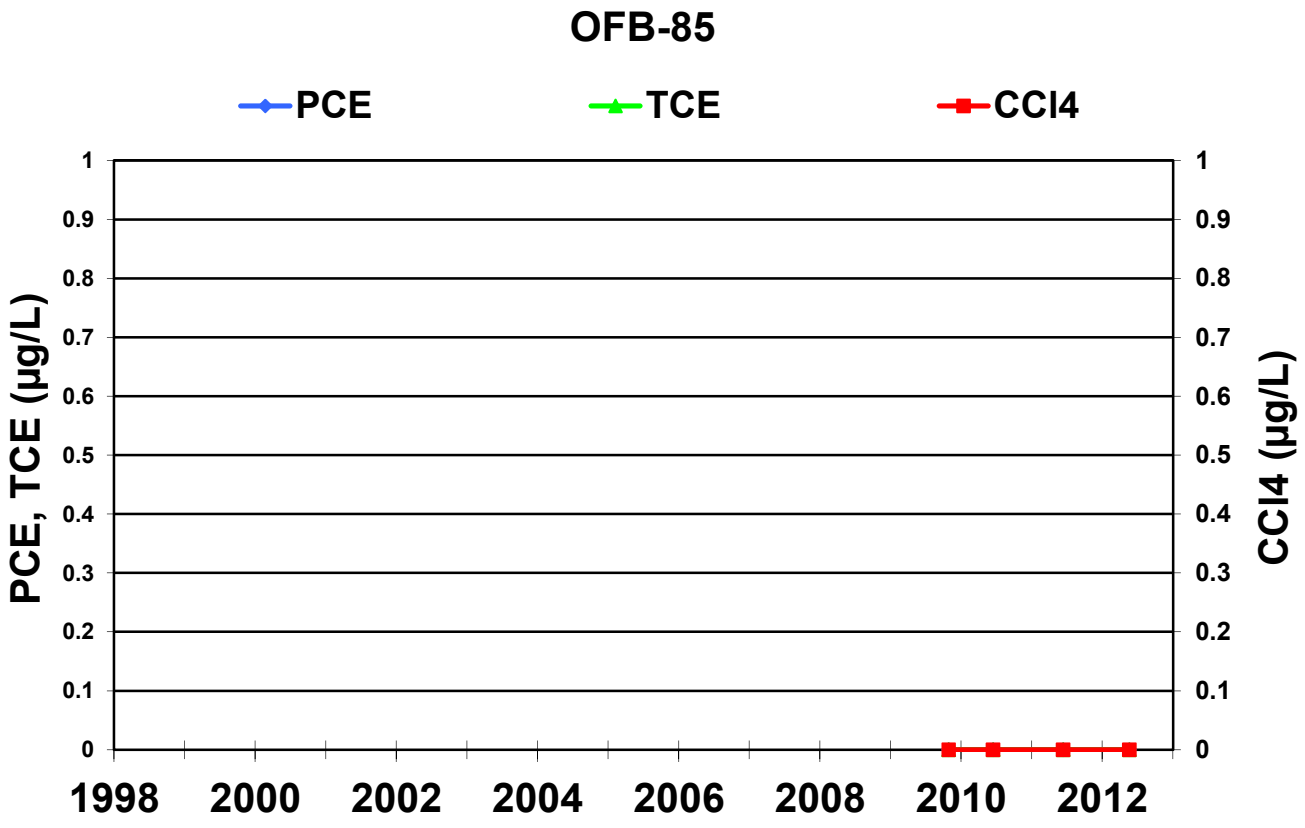

OFB-80
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

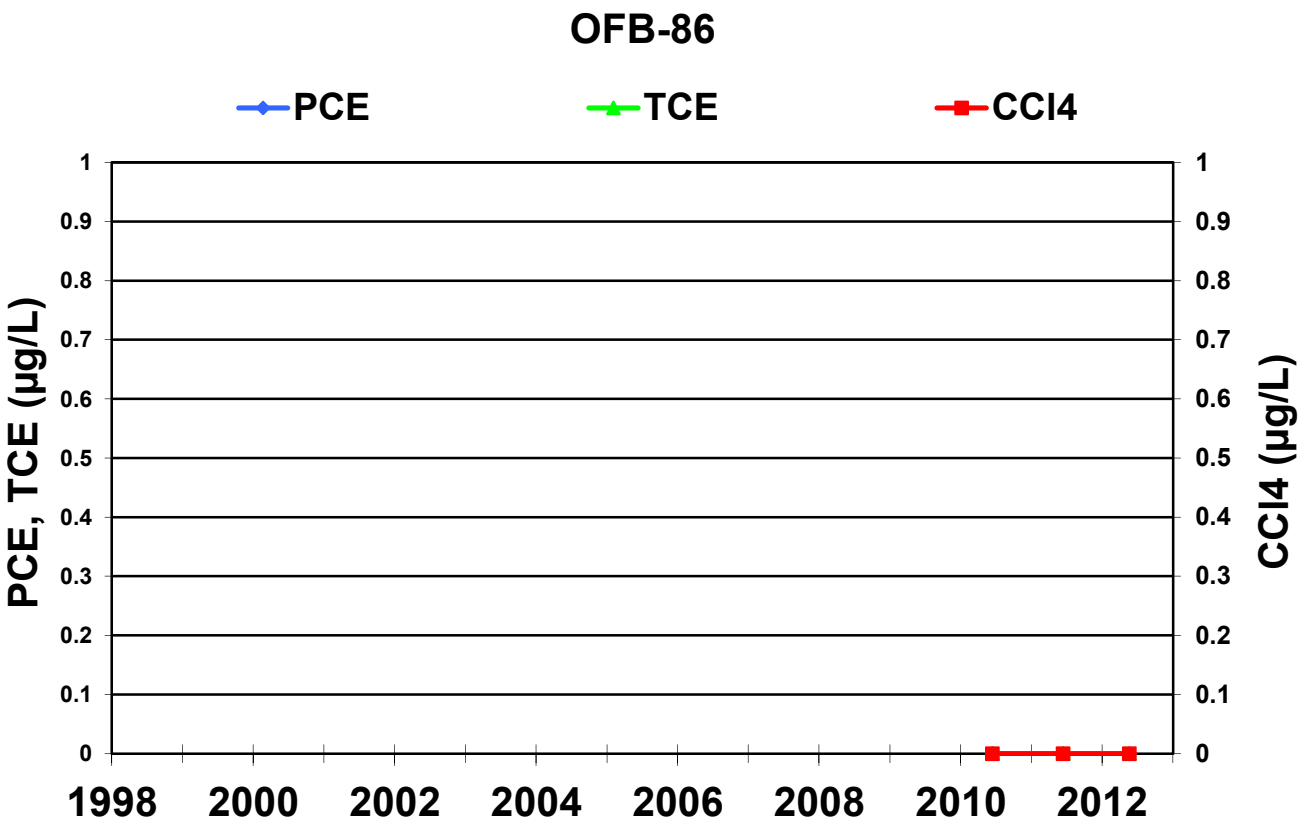

OFB-81
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012


OFB-82
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012


OFB-83
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012


OFB-84
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012


OFB-85
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012


OFB-86
PCE
TCE
CCl4
PCE, TCE (µg/L)
CCl4 (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1998
2000
2002
2004
2006
2008
2010
2012

APPENDIX D

Main Base/SAC Area, AC&W, and Site 7 Plume Treatment Plant Air Strippers: Compliance with Air Emissions Standards

TABLE D-1

EMISSION STANDARD COMPLIANCE FOR THE AC&W TREATMENT SYSTEM
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 2)

Date	Average Incremental Treatment rate (gpm)	Air Stripper Influent TCE Concentration (mg/L)	Average Influent TCE Concentration (mg/L)	Mass Removed (lbs)	Average Mass Removal Rate (lbs per day)
12/18/03	181	21	19.5	0.567	0.041
12/30/03	142	18	19.5	0.497	0.041
1/23/04	168	16	17	0.889	0.037
2/18/04	151	19	17.5	0.908	0.035
3/04/04	157	17	18	0.490	0.033
3/18/04	169	18	17.5	0.505	0.036
4/1/04	168	19	18.5	0.531	0.038
4/9/04	168	17	18	0.291	0.036
4/23/04	168	17	17	0.481	0.034
5/7/04	167	16	16.5	0.465	0.033
5/21/04	171	17	16.5	0.475	0.034
6/4/04	187	18	17.5	0.551	0.039
6/18/04	187	15	16.5	0.519	0.037
7/2/04	186	15	15	0.469	0.034
7/30/04	186	17	16	1.000	0.036
8/13/04	186	18	17.5	0.546	0.039
8/27/04	185	18	18	0.561	0.040
9/10/04	176	15	16.5	0.490	0.035
9/24/04	184	15	15	0.463	0.033
10/8/04	183	15	15	0.462	0.033
10/22/04	183	14	14.5	0.446	0.032
11/5/04	183	14	14	0.430	0.031
11/9/04	165	15	14.5	0.403	0.101
12/3/04	180	16	15.5	0.469	0.020
2/10/05	168	14	15	2.086	0.030
4/21/05	178	13	13.5	2.024	0.029
7/28/05	178	12	12.5	2.623	0.027
10/20/05	163	11	11.5	1.897	0.023
1/26/06	180	12	11.5	2.438	0.025
4/20/06	188	11	11.5	2.179	0.026
7/27/06	182	11	11	2.353	0.024
10/19/06	187	12	11.5	2.170	0.026
1/25/07	186	12	12	2.631	0.027
4/19/07	172	18	15	2.601	0.031
7/12/07	163	8.1	13.05	2.154	0.026
10/18/07	175	9.5	8.8	1.812	0.018
1/10/08	192	8.2	8.85	1.712	0.020
4/17/08	190	6.9	7.55	1.693	0.017
7/10/08	195	7.4	7.15	1.408	0.017
10/30/08	176	6.3	6.85	1.624	0.014
2/4/09	174	5.8	6.05	1.229	0.013
4/16/09	190	5.6	5.7	0.925	0.013
7/23/09	184	6.9	6.25	1.354	0.014
10/15/09	169	6	6.45	1.103	0.013
02/04/10	152	5.3	5.65	1.156	0.010
05/13/10	138	5	5.15	0.837	0.009
09/15/10	121	6	5.5	1.000	0.008
11/02/10	113	6.4	6.2	0.403	0.008
02/02/11	101	6	6.2	0.689	0.007
05/03/11	108	5.6	5.8	0.678	0.008
08/02/11	115	5	5.3	0.664	0.007
10/05/11	106	4.8	4.9	0.400	0.006

TABLE D-1

EMISSION STANDARD COMPLIANCE FOR THE AC&W TREATMENT SYSTEM
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Date	Average Incremental Treatment rate (gpm)	Air Stripper Influent TCE Concentration (mg/L)	Average Influent TCE Concentration (mg/L)	Mass Removed (lbs)	Average Mass Removal Rate (lbs per day)
01/03/12	97	7	5.9	0.618	0.007
04/03/12	104	5.8	6.4	0.730	0.008
07/02/12	101	6.4	6.1	0.668	0.007
10/03/12	74	6.1	6.25	0.515	0.006
Input parameters used in the risk calculations	188		18.5		

Notes:

Average Incremental Treatment rate was calculated using SCADA data

µg/L - micrograms per liter
lbs - pounds
lbs/day - pounds per day
TCE - trichloroethene

TABLE D-2

EMISSION STANDARD COMPLIANCE FOR THE SITE 7 TREATMENT SYSTEM
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 2)

		Trichloroethene (TCE)				Tetrachloroethene (PCE)[a]				cis-1,2-Dichloroethene (cis-1,2-DCE)					
	Average Incremental	Influent Concentration		Mass of TCE Removed		Influent Concentration		Mass of PCE Removed		Influent Concentration		Mass of PCE Removed		Total	
Date	Treatment rate (gpm)	Measured (µg/L)	Average (µg/L)	Incremental (lbs)	Per Day (lbs/day)	Measured (µg/L)	Average (µg/L)	Incremental (lbs)	Per Day (lbs/day)	Measured (µg/L)	Average (µg/L)	Incremental (lbs)	Per Day (lbs/day)	VOCs (lbs/day)	ROC[a] (lbs/day)
4/11/2002	-	21	28	0.33	0.020	2.3	4.0	0.05	0.003	1.4	1.4	0.02	0.001	0.023	0.021
4/26/2002	52	29	25	0.23	0.015	3.3	2.8	0.03	0.002	2.0	1.7	0.02	0.001	0.018	0.017
5/9/2002	52	26	28	0.22	0.017	3.0	3.2	0.03	0.002	1.8	1.9	0.02	0.001	0.020	0.018
5/23/2002	47	24	25	0.20	0.014	3.0	3.0	0.02	0.002	1.9	1.9	0.01	0.001	0.017	0.015
6/6/2002	51	27	26	0.22	0.016	3.2	3.1	0.03	0.002	1.9	1.9	0.02	0.001	0.019	0.017
6/20/2002	38	28	28	0.17	0.012	3.5	3.4	0.02	0.002	2.2	2.1	0.01	0.001	0.015	0.013
7/2/2002	35	26	27	0.14	0.011	3.1	3.3	0.02	0.001	1.9	2.1	0.01	0.001	0.014	0.012
7/17/2002	30	28	27	0.15	0.010	3.5	3.3	0.02	0.001	2.0	2.0	0.01	0.001	0.012	0.010
8/1/2002	53	27	28	0.26	0.018	3.6	3.6	0.03	0.002	2.0	2.0	0.02	0.001	0.021	0.019
8/15/2002	45	26	27	0.20	0.014	3.1	3.4	0.03	0.002	2.0	2.0	0.02	0.001	0.017	0.015
8/29/2002	43	27	27	0.19	0.014	3.5	3.3	0.02	0.002	1.5	1.8	0.01	0.001	0.016	0.015
9/12/2002	54	27	27	0.24	0.017	3.1	3.3	0.03	0.002	1.9	1.7	0.02	0.001	0.021	0.019
9/26/2002	50	33	30	0.25	0.018	3.8	3.5	0.03	0.002	2.2	2.1	0.02	0.001	0.021	0.019
10/10/2002	46	30	32	0.24	0.017	3.6	3.7	0.03	0.002	1.9	2.1	0.02	0.001	0.021	0.019
10/23/2002	39	30	30	0.18	0.014	3.9	3.8	0.02	0.002	1.7	1.8	0.01	0.001	0.017	0.015
11/7/2002	54	27	29	0.27	0.018	3.5	3.7	0.04	0.002	1.9	1.8	0.02	0.001	0.022	0.019
11/22/2002	40	34	31	0.22	0.015	3.8	3.7	0.03	0.002	2.1	2.0	0.01	0.001	0.017	0.016
12/5/2002	58	31	33	0.29	0.023	4.0	3.9	0.04	0.003	2.1	2.1	0.02	0.001	0.027	0.024
12/19/2002	47	30	31	0.24	0.017	4.0	4.0	0.03	0.002	2.0	2.1	0.02	0.001	0.021	0.019
1/2/2003	52	30	30	0.26	0.019	4.1	4.1	0.04	0.003	2.0	2.0	0.02	0.001	0.022	0.020
1/15/2003	52	29	30	0.24	0.018	3.4	3.8	0.03	0.002	1.9	2.0	0.02	0.001	0.022	0.020
1/29/2003	52	31	30	0.26	0.019	3.7	3.6	0.03	0.002	2.1	2.0	0.02	0.001	0.022	0.020
2/27/2003	51	32	31	0.56	0.019	4.7	4.2	0.07	0.003	2.1	2.1	0.04	0.001	0.023	0.020
3/13/2003	52	31	32	0.28	0.020	3.7	4.2	0.04	0.003	0.075	1.1	0.01	0.001	0.023	0.020
3/27/2003	52	30	31	0.27	0.019	3.9	3.8	0.03	0.002	2.2	1.1	0.01	0.001	0.022	0.020
4/10/2003	52	34	32	0.28	0.020	3.9	3.9	0.03	0.002	2.1	2.2	0.02	0.001	0.024	0.021
12/18/2006	-	44	39	0.35	0.000	6.2	5.1	0.05	0.000	2.0	2.1	0.02	0.000	0.000	0.000
12/19/2006	96	49	47	0.05	0.054	6.0	6.1	0.01	0.007	2.0	2.0	0.00	0.002	0.063	0.056
12/20/2006	96	55	52	0.06	0.060	6.6	6.3	0.01	0.007	2.2	2.1	0.00	0.002	0.070	0.063
12/28/2006	96	83	69	0.64	0.079	11.0	8.8	0.08	0.010	3.9	3.1	0.03	0.004	0.093	0.083
1/4/2007	86	38	61	0.44	0.063	5.5	8.3	0.06	0.009	2.1	3.0	0.02	0.003	0.074	0.066
1/11/2007	96	39	39	0.31	0.044	5.5	5.5	0.04	0.006	2.1	2.1	0.02	0.002	0.053	0.047
1/25/2007	63	41	40	0.42	0.030	5.9	5.7	0.06	0.004	2.2	2.2	0.02	0.002	0.036	0.032
2/22/2007	97	29	29	0.48	0.034	4.3	4.0	0.07	0.005	1.6	1.6	0.03	0.002	0.041	0.036
4/19/2007	97	63	46	3.00	0.054	7.5	5.9	0.38	0.007	3.7	2.7	0.17	0.003	0.064	0.057
7/12/2007	88	24	44	3.88	0.046	3.4	5.5	0.49	0.006	1.4	2.6	0.23	0.003	0.055	0.049
10/18/07	92	22	23	2.49	0.025	3.3	3.4	0.36	0.004	1.5	1.5	0.16	0.002	0.031	0.027
1/10/08	84	17	20	1.65	0.020	3	3.0	0.27	0.003	0.7	1.1	0.09	0.001	0.024	0.021
4/17/08	71	25	21	1.75	0.018	3.3	3.2	0.26	0.003	1.7	1.2	0.10	0.001	0.022	0.019
8/7/08	58	24	25	1.91	0.017	3.3	3.7	0.26	0.002	2.2	2.0	0.15	0.001	0.021	0.021
10/30/08	71	17	21	1.47	0.017	2	3.0	0.19	0.002	1.4	1.8	0.13	0.002	0.021	0.021
2/04/09	58	7	12	0.79	0.008	1.4	1.7	0.11	0.001	0.26	0.8	0.06	0.001	0.010	0.010
4/16/09	68	17	12	0.68	0.010	2.3	1.9	0.11	0.002	1.4	0.8	0.05	0.001	0.012	0.012
7/23/09	75	22	20	1.71	0.017	2.7	2.5	0.22	0.002	1.9	1.7	0.14	0.001	0.021	0.021
10/15/09	67	21	22	1.45	0.017	2.8	2.8	0.19	0.002	1.5	1.7	0.11	0.001	0.021	0.021
02/04/10	70	17	19	1.79	0.016	2.9	2.9	0.27	0.002	1.6	1.6	0.15	0.001	0.020	0.017
05/13/10	67	15	16	1.26	0.013	2.4	2.7	0.21	0.002	1.4	1.5	0.12	0.001	0.016	0.014
09/15/10	60	16	16	1.39	0.011	2.6	2.5	0.22	0.002	1.8	1.6	0.14	0.001	0.014	0.012
11/02/10	56	17	17	0.53	0.011	2.6	2.6	0.08	0.002	1.7	1.8	0.06	0.001	0.014	0.012
02/02/11	52	16	17	0.96	0.010	2.1	2.4	0.14	0.001	1.5	1.6	0.09	0.001	0.013	0.011
05/03/11	52	15	16	0.87	0.010	2.2	2.2	0.12	0.001	1.5	1.5	0.08	0.001	0.012	0.011
08/02/11	52	13	14	0.80	0.009	1.8	2.0	0.11	0.001	1.2	1.4	0.08	0.001	0.011	0.010

TABLE D-2

EMISSION STANDARD COMPLIANCE FOR THE SITE 7 TREATMENT SYSTEM
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 2)

		Trichloroethene (TCE)				Tetrachloroethene (PCE)[a]				cis-1,2-Dichloroethene (cis-1,2-DCE)					
	Average Incremental	Influent Concentration		Mass of TCE Removed		Influent Concentration		Mass of PCE Removed		Influent Concentration		Mass of PCE Removed		Total	
Date	Treatment rate (gpm)	Measured (µg/L)	Average (µg/L)	Incremental (lbs)	Per Day (lbs/day)	Measured (µg/L)	Average (µg/L)	Incremental (lbs)	Per Day (lbs/day)	Measured (µg/L)	Average (µg/L)	Incremental (lbs)	Per Day (lbs/day)	VOCs (lbs/day)	ROC[a] (lbs/day)
10/05/11	53	12	13	0.51	0.008	2	1.9	0.08	0.001	1.3	1.3	0.05	0.001	0.010	0.009
01/03/12	46	13	13	0.62	0.007	2	2.0	0.10	0.001	1.3	1.3	0.06	0.001	0.009	0.008
04/03/12	45	14	14	0.67	0.007	2.2	2.1	0.10	0.001	1.7	1.5	0.07	0.001	0.009	0.008
07/02/12	44	13	14	0.64	0.007	1.9	2.1	0.10	0.001	1.2	1.5	0.07	0.001	0.009	0.008
10/03/12	47	15	14	0.73	0.008	2.9	2.4	0.12	0.001	1.5	1.4	0.07	0.001	0.010	0.009
Average Values [b] =	45.4	13.8				2.3				1.4				0.01	0.008
Air Emission Standards[c] :	250	150				30				NA				10	10

Notes:
[a] PCE is not regulated as an ROC
[b] Average value for current year based on quarterly data.
[c] Air Emission Standards based on calculations of excess cancer risk (Rule 402, Best Available Control Technology for Toxics [TBACT]) and ROC (Rule 202, Best Available Control Technology [BACT]) presented to the Sacramento Metropolitan Air Quality Management District in a letter dated February 18, 1997.

gpm - gallons per minute
lbs - pounds
lbs/day - pounds per day
NA - not applicable
PCE - tetrachloroethene
ROC - Reactive organic compounds. Calculated from adding results from VOC detected compounds (included in this table) above PQLs. Does not include PCE as PCE is not regulated as an ROC.
TCE - trichloroethene
VOC - volatile organic compounds
1,2-DCE - 1,2-dichloroethene
µg/L - micrograms per liter

TABLE D-3

EMISSION STANDARD COMPLIANCE
FOR THE MAIN BASE/SAC AREA TREATMENT SYSTEM
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 2)

	Average Incremental Treatment Rate	Trichloroethene (TCE)				Tetrachloroethene (PCE)				Carbon Tetrachloride (CCl_4)				[a] 1,1-Dichloroethene (1,1-DCE)				ROC
		Influent Concentration		Mass of TCE Removed		Influent Concentration		Mass of PCE Removed		Influent Concentration		Mass of CCl_4 Removed		Influent Concentration		Mass of 1,1-DCE Removed		
Date	(gpm)	Measured (µg/L)	Average (µg/L)	Incremental (lbs)	Per Day (lbs/day)	Measured (µg/L)	Average (µg/L)	Incremental (lbs)	Per Day (lbs)	Measured (µg/L)	Average (µg/L)	Incremental (lbs)	Per Day (lbs/day)	Measured (µg/L)	Average (µg/L)	Incremental (lbs)	Per Day (lbs/day)	(lbs/day)
9/11/2003	1,520	14	14	3.5	0.2	31	29	7.4	0.5	1.4	1.4	0.4	0.03	0.64	0.5	0.1	0.01	0.74
9/23/2003	1,540	12	13	2.9	0.2	31	31	6.9	0.6	1.3	1.4	0.3	0.02	0.48	0.6	0.1	0.01	0.85
10/9/2003	1,531	14	13	3.8	0.2	30	31	9.0	0.6	1.7	1.5	0.4	0.03	0.51	0.5	0.1	0.01	0.84
10/23/2003	1,441	13	14	3.3	0.2	31	31	7.4	0.5	1.5	1.6	0.4	0.03	0.53	0.5	0.1	0.01	0.80
11/6/2003	1,555	12	13	3.3	0.2	27	29	7.6	0.5	1.5	1.5	0.4	0.03	0.49	0.5	0.1	0.01	0.81
11/20/2003	1,482	12	12	3.0	0.2	28	28	6.9	0.5	1.5	1.5	0.4	0.03	0.47	0.5	0.1	0.01	0.74
12/4/2003	1,448	13	13	3.0	0.2	31	30	7.2	0.5	1.7	1.6	0.4	0.03	0.51	0.5	0.1	0.01	0.77
12/18/2003	1,424	12	13	3.0	0.2	28	30	7.1	0.5	1.6	1.7	0.4	0.03	0.58	0.5	0.1	0.01	0.76
12/30/2003	1,455	8	10	2.1	0.2	29	29	6.0	0.5	1.6	1.6	0.3	0.03	0.30	0.4	0.1	0.01	0.71
1/15/2004	1,407	13	11	2.8	0.2	30	30	8.0	0.5	1.5	1.6	0.4	0.03	0.42	0.4	0.1	0.01	0.71
1/29/2004	1,375	13	13	3.0	0.2	32	31	7.2	0.5	1.9	1.7	0.4	0.03	0.48	0.5	0.1	0.01	0.76
2/12/2004	1,467	12	13	3.1	0.2	25	29	7.0	0.5	1.4	1.7	0.4	0.03	0.46	0.5	0.1	0.01	0.76
2/26/2004	1,185	12	12	2.4	0.2	28	27	5.3	0.4	1.5	1.5	0.3	0.02	0.49	0.5	0.1	0.01	0.58
3/11/2004	1,391	8	10	2.3	0.2	53	41	9.5	0.7	1.2	1.4	0.3	0.02	0.075	0.3	0.1	0.00	0.87
3/25/2004	1,372	13	10	2.4	0.2	29	41	9.5	0.7	1.7	1.5	0.3	0.02	0.46	0.3	0.1	0.00	0.88
4/8/2004	1,297	11	12	2.6	0.2	25	27	5.9	0.4	1.3	1.5	0.3	0.02	0.45	0.5	0.1	0.01	0.64
4/22/2004	1,402	11	11	2.6	0.2	27	26	6.1	0.4	1.5	1.4	0.3	0.02	0.82	0.6	0.1	0.01	0.66
5/6/2004	1,397	9.6	10	2.4	0.2	24	26	6.0	0.4	1.5	1.5	0.4	0.03	0.49	0.7	0.2	0.01	0.64
5/20/2004	1,500	11	10	2.6	0.2	24	24	6.1	0.4	1.6	1.6	0.4	0.03	0.46	0.5	0.1	0.01	0.66
6/3/2004	1,358	11	11	2.5	0.2	23	24	5.4	0.4	1.5	1.6	0.4	0.03	0.45	0.5	0.1	0.01	0.60
6/17/2004	1,418	6	8	2.0	0.1	41	32	7.6	0.5	0.8	1.2	0.3	0.02	0.08	0.3	0.1	0.00	0.71
7/1/2004	1,275	11	8	1.8	0.1	24	33	7.0	0.5	1.5	1.2	0.2	0.02	0.41	0.2	0.1	0.00	0.65
7/29/2004	1,473	10	11	5.2	0.2	24	24	11.9	0.4	1.4	1.5	0.7	0.03	0.29	0.4	0.2	0.01	0.64
8/12/2004	1,396	11	11	2.5	0.2	27	26	6.0	0.4	1.7	1.6	0.4	0.03	0.28	0.3	0.1	0.00	0.63
8/26/2004	1,520	10	11	2.7	0.2	21	24	6.1	0.4	1.7	1.7	0.4	0.03	0.30	0.3	0.1	0.01	0.67
9/9/2004	1,228	10	10	2.0	0.1	18	20	4.0	0.3	1.7	1.7	0.4	0.03	0.42	0.4	0.1	0.01	0.46
9/23/2004	1,462	9	9	2.2	0.2	26	22	5.4	0.4	1.2	1.5	0.4	0.03	0.33	0.4	0.1	0.01	0.58
10/7/2004	1,524	10	9	2.2	0.2	27	22	5.4	0.4	1.6	1.5	0.4	0.03	0.33	0.4	0.1	0.01	0.69
10/22/2004	1,422	10	9	2.2	0.2	22	22	5.4	0.4	1.4	1.5	0.4	0.03	0.33	0.4	0.1	0.01	0.62
11/4/2004	1,429	11	9	2.2	0.2	22	22	5.4	0.4	1.7	1.5	0.4	0.03	0.33	0.4	0.1	0.01	0.59
11/18/2004	1,441	10	9	2.2	0.2	25	22	5.4	0.4	1.3	1.5	0.4	0.03	0.33	0.4	0.1	0.01	0.62
12/2/2004	1,442	10	9	2.2	0.2	21	22	5.4	0.4	1.3	1.5	0.4	0.03	0.33	0.4	0.1	0.01	0.60
12/16/2004	1,457	9	9	2.2	0.2	22	22	5.4	0.4	1.4	1.5	0.4	0.03	0.33	0.4	0.1	0.01	0.58
12/30/2004	1,364	9	9	2.2	0.2	21	22	5.4	0.4	1.3	1.5	0.4	0.03	0.33	0.4	0.1	0.01	0.53
1/13/2005	1,531	9	9	2.3	0.2	19	20	5.2	0.4	1.3	1.3	0.3	0.02	0.30	0.4	0.1	0.01	0.57
1/27/2005	1,577	10	9	2.5	0.2	19	19	5.0	0.4	1.6	1.5	0.4	0.03	0.49	0.4	0.1	0.01	0.57
2/10/2005	1,545	7	9	2.3	0.2	19	19	4.9	0.4	1.3	1.5	0.4	0.03	0.28	0.4	0.1	0.01	0.55
2/24/2005	1,549	8	9	2.2	0.1	22	20	5.2	0.2	1.3	1.4	0.4	0.01	0.36	0.4	0.1	0.00	0.28
3/10/2005	1,537	7	8	2.0	0.1	19	21	5.3	0.4	1.2	1.3	0.3	0.02	0.27	0.3	0.1	0.01	0.55
3/24/2005	1,567	9	8	2.1	0.1	26	23	5.9	0.4	1.4	1.3	0.3	0.02	0.08	0.2	0.0	0.00	0.60
4/7/2005	1,504	8	8	2.1	0.1	22	24	6.1	0.4	1.2	1.3	0.3	0.02	0.08	0.1	0.0	0.00	0.61
4/21/2005	1,657	8	8	2.2	0.2	25	24	6.6	0.5	1.3	1.3	0.3	0.02	0.08	0.1	0.0	0.00	0.65
5/5/2005	1,422	6	7	1.7	0.1	22	24	5.6	0.4	1.2	1.3	0.3	0.02	0.28	0.2	0.0	0.00	0.54
5/20/2005	1,398	7	6	1.6	0.1	19	21	5.2	0.3	1.0	1.1	0.3	0.02	0.45	0.4	0.1	0.01	0.48
6/2/2005	1,792	7	7	1.8	0.1	25	22	6.2	0.5	1.1	1.0	0.3	0.02	0.08	0.3	0.1	0.01	0.64
6/16/2005	1,637	7	7	1.9	0.1	15	20	5.5	0.4	1.0	1.1	0.3	0.02	0.27	0.2	0.0	0.00	0.55
6/30/2005	1,586	8	7	2.0	0.1	22	19	4.9	0.4	1.1	1.1	0.3	0.02	0.25	0.3	0.1	0.00	0.52
07/14/2005	1,400	8	8	1.9	0.1	24	23	5.4	0.4	1.2	1.2	0.3	0.02	0.08	0.2	0.0	0.00	0.54
07/28/2005	1,468	7	7	1.8	0.1	16	20	4.9	0.4	1.1	1.2	0.3	0.02	0.08	0.1	0.0	0.00	0.51
08/11/2005	1,562	7	7	1.7	0.1	17	17	4.3	0.3	1.0	1.1	0.3	0.02	0.08	0.1	0.0	0.00	0.45
08/25/2005	1,369	8	7	1.6	0.1	22	20	4.5	0.3	0.9	1.0	0.2	0.02	0.08	0.1	0.0	0.00	0.45
09/08/2005	1,446	9	8	2.0	0.1	26	24	5.8	0.4	1.2	1.1	0.3	0.02	0.08	0.1	0.0	0.00	0.58
09/22/2005	1,440	7	8	1.9	0.1	22	24	5.8	0.4	1.1	1.2	0.3	0.02	0.08	0.1	0.0	0.00	0.57
10/6/2005	1,389	10	9	2.0	0.1	23	23	5.3	0.4	1.5	1.3	0.3	0.02	0.34	0.2	0.0	0.00	0.54
10/20/2005	1,273	9	9	2.0	0.1	24	24	5.0	0.4	1.7	1.6	0.3	0.02	0.38	0.4	0.1	0.01	0.53
11/3/2005	1,052	6	7	1.3	0.1	20	22	3.9	0.3	1.5	1.6	0.3	0.02	0.08	0.2	0.0	0.00	0.39
11/17/2005	1,437	5	5	1.3	0.1	21	21	5.0	0.4	1.2	1.4	0.3	0.02	0.08	0.1	0.0	0.00	0.47
12/1/2005	1,385	7	6	1.4	0.1	19	20	4.7	0.3	1.5	1.4	0.3	0.02	0.08	0.1	0.0	0.00	0.46
12/15/2005	1,643	2	5	1.3	0.1	15	17	4.7	0.3	1.0	1.3	0.3	0.02	0.08	0.1	0.0	0.00	0.46
12/29/2005	1,674	6	4	1.1	0.1	15	15	4.2	0.3	1.2	1.1	0.3	0.02	0.08	0.1	0.0	0.00	0.40
1/12/2006	1,670	7	6	1.7	0.1	18	17	4.6	0.3	1.1	1.2	0.3	0.02	0.28	0.2	0.0	0.00	0.48
1/26/2006	1,668	6	6	1.8	0.1	15	17	4.6	0.3	1.1	1.1	0.3	0.02	0.32	0.3	0.1	0.01	0.49
2/9/2006	1,663	7	7	1.8	0.1	17	16	4.5	0.3	1.5	1.3	0.4	0.03	0.34	0.3	0.1	0.01	0.48
2/23/2006	1,659	7	7	1.9	0.1	17	17	4.7	0.3	1.2	1.4	0.4	0.03	0.39	0.4	0.1	0.01	0.51
3/9/2006	1,650	7	7	1.8	0.1	17	17	4.7	0.3	1.3	1.3	0.3	0.02	0.08	0.2	0.1	0.00	0.50

TABLE D-3

EMISSION STANDARD COMPLIANCE
FOR THE MAIN BASE/SAC AREA TREATMENT SYSTEM
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

	Average Incremental Treatment Rate	Trichloroethene (TCE)				Tetrachloroethene (PCE)				Carbon Tetrachloride (CCl_4)				[a] 1,1-Dichloroethene (1,1-DCE)				ROC
		Influent Concentration		Mass of TCE Removed		Influent Concentration		Mass of PCE Removed		Influent Concentration		Mass of CCl_4 Removed		Influent Concentration		Mass of 1,1-DCE Removed		
Date	(gpm)	Measured (µg/L)	Average (µg/L)	Incremental (lbs)	Per Day (lbs/day)	Measured (µg/L)	Average (µg/L)	Incremental (lbs)	Per Day (lbs)	Measured (µg/L)	Average (µg/L)	Incremental (lbs)	Per Day (lbs/day)	Measured (µg/L)	Average (µg/L)	Incremental (lbs)	Per Day (lbs/day)	(lbs/day)
3/23/2006	1,535	7	7	1.7	0.1	19	18	4.6	0.3	1.3	1.3	0.3	0.02	0.29	0.2	0.0	0.00	0.48
4/6/2006	1,562	6	6	1.7	0.1	16	18	4.6	0.3	1.2	1.3	0.3	0.02	0.27	0.3	0.1	0.01	0.48
4/20/2006	1,628	6	6	1.6	0.1	15	16	4.2	0.3	1.1	1.2	0.3	0.02	0.08	0.2	0.0	0.00	0.44
5/4/2006	1,482	7	6	1.5	0.1	20	18	4.4	0.3	1.2	1.2	0.3	0.02	0.08	0.1	0.0	0.00	0.44
5/18/2006	1,535	6	6	1.6	0.1	16	18	4.6	0.3	1.2	1.2	0.3	0.02	0.08	0.1	0.0	0.00	0.47
6/1/2006	1,593	6	6	1.6	0.1	13	15	3.9	0.3	1.6	1.4	0.4	0.03	0.53	0.3	0.1	0.01	0.42
6/15/2006	1,434	7	7	1.6	0.1	20	17	4.0	0.3	1.5	1.6	0.4	0.03	0.58	0.6	0.1	0.01	0.43
6/29/2006	1,617	6	7	1.8	0.1	16	18	4.9	0.3	0.9	1.2	0.3	0.02	0.08	0.3	0.1	0.01	0.51
7/13/2006	1,592	7	7	1.8	0.1	18	17	4.6	0.3	1.8	1.4	0.4	0.03	0.31	0.2	0.1	0.00	0.48
7/27/2006	1,432	5	6	1.5	0.1	14	16	3.9	0.3	0.9	1.4	0.3	0.02	0.08	0.2	0.0	0.00	0.42
8/10/2006	1,437	8	7	1.6	0.1	19	17	4.0	0.3	1.8	1.4	0.3	0.02	0.42	0.2	0.1	0.00	0.44
8/24/2006	1,547	6	7	1.8	0.1	13	16	4.2	0.3	1.5	1.7	0.4	0.03	0.08	0.2	0.1	0.00	0.47
9/7/2006	1,609	8	7	1.9	0.1	17	15	4.1	0.3	1.7	1.6	0.4	0.03	0.43	0.3	0.1	0.00	0.45
9/21/2006	1,580	6	7	1.8	0.1	14	16	4.1	0.3	1.3	1.5	0.4	0.03	0.08	0.3	0.1	0.00	0.33
10/5/2006	1,571	7	6	1.6	0.1	16	15	4.0	0.3	1.7	1.5	0.4	0.03	0.08	0.1	0.0	0.00	0.58
10/19/2006	1,437	4	5	1.3	0.1	13	15	3.5	0.3	1.2	1.5	0.4	0.03	0.08	0.1	0.0	0.00	0.28
11/2/2006	1,493	6	5	1.2	0.1	14	14	3.4	0.2	1.4	1.3	0.3	0.02	0.08	0.1	0.0	0.00	0.27
11/16/2006	1,483	6	6	1.4	0.1	14	14	3.5	0.2	1.2	1.3	0.3	0.02	0.08	0.1	0.0	0.00	0.27
11/30/2006	1,535	5	5	1.4	0.1	12	13	3.4	0.2	1.2	1.2	0.3	0.02	0.08	0.1	0.0	0.00	0.26
12/14/2006	1,581	5	5	1.4	0.1	12	12	3.2	0.2	1.2	1.2	0.3	0.02	0.08	0.1	0.0	0.00	0.25
12/28/2006	1,444	10	8	1.9	0.1	26	19	4.6	0.3	2.4	1.8	0.4	0.03	0.96	0.5	0.1	0.01	0.37
1/11/2007	1,328	9	9	2.1	0.1	18	22	4.9	0.4	1.0	1.7	0.4	0.03	0.36	0.7	0.1	0.01	0.54
1/25/2007	1,432	5	7	1.6	0.1	15	17	4.0	0.3	1.2	1.1	0.3	0.02	0.08	0.2	0.1	0.00	0.42
2/8/2007	1,589	6	6	1.5	0.1	20	18	4.7	0.3	1.4	1.3	0.3	0.02	0.34	0.2	0.1	0.00	0.47
2/22/2007	1,518	5	5	1.4	0.1	13	17	4.2	0.3	1.2	1.3	0.3	0.02	0.08	0.2	0.1	0.00	0.43
4/19/2007	1,490	5	5	4.5	0.1	13	13	13.0	0.2	1.0	1.1	1.1	0.02	0.08	0.1	0.1	0.00	0.32
7/12/2007	1,289	4	4	5.2	0.1	13	13	16.9	0.2	2.2	1.6	2.1	0.02	0.08	0.1	0.1	0.00	0.29
10/18/2007	1,329	6	5	7.2	0.1	16	15	22.7	0.2	1.0	1.6	2.5	0.03	0.08	0.1	0.1	0.00	0.33
1/10/2008	1,232	3	4	5.1	0.1	17	17	20.5	0.2	1.0	1.0	1.2	0.01	0.08	0.1	0.1	0.00	0.31
4/17/2008	1,222	4	3	4.7	0.0	13	15	21.6	0.2	1.2	1.1	1.6	0.02	0.08	0.1	0.1	0.00	0.29
7/10/2008	1,035	7	5	5.6	0.1	11	12	12.5	0.1	0.9	1.0	1.1	0.01	0.08	0.1	0.1	0.00	0.23
10/30/2008	923	4	5	6.7	0.1	11	11	13.7	0.1	0.9	0.9	1.1	0.01	0.08	0.1	0.1	0.00	0.19
2/4/2009	1,469	3	4	6.3	0.1	11	11	18.8	0.2	1.0	0.9	1.6	0.02	0.08	0.1	0.1	0.00	0.28
4/16/2009	1,632	4	4	5.4	0.1	9	10	14.2	0.2	0.5	0.7	1.0	0.01	0.08	0.1	0.1	0.00	0.29
7/23/2009	1,712	5	5	9.2	0.1	10	9	19.1	0.2	0.9	0.7	1.4	0.01	0.05	0.1	0.1	0.00	0.30
10/15/2009	1,675	4	4	7.4	0.1	10	10	16.1	0.2	1.3	1.1	1.8	0.02	0.05	0.1	0.1	0.00	0.30
2/4/2010	1,502	4	4	8.2	0.1	10	10	19.6	0.2	1	1	2.2	0.02	0.00	0.0	0.0	0.00	0.00
5/13/2010	1,396	4	4	6.8	0.1	9	10	15.7	0.2	1	1	1.6	0.02	0.00	0.0	0.0	0.00	0.00
9/15/2010	1,382	4	4	8.8	0.1	10	10	20.1	0.2	1	1	1.9	0.01	0.00	0.0	0.0	0.00	0.00
11/2/2010	1,427	4	4	3.5	0.1	10	10	8.1	0.2	1	1	0.7	0.01	0.00	0.0	0.0	0.00	0.00
2/2/2011	1,420	4	4	6.1	0.1	8	9	14.0	0.2	1	1	1.4	0.02	0.00	0.0	0.0	0.00	0.23
5/3/2011	1,459	4	4	5.6	0.1	9	9	13.9	0.2	1	1	1.3	0.01	0.00	0.0	0.0	0.00	0.23
8/2/2011	1,421	4	4	5.7	0.1	10	10	14.8	0.2	1	1	1.4	0.02	0.00	0.0	0.0	0.00	0.24
10/4/2011	1,406	4	4	3.9	0.1	12	11	11.5	0.2	1	1	0.9	0.01	0.10	0.0	0.0	0.00	0.26
11/2/2011	1,406	1	2	1.1	0.0	8	10	4.9	0.2	1	1	0.3	0.01	0.00	0.0	0.0	0.00	0.22
12/6/2011	1,406	3	2	1.2	0.0	9	8	4.9	0.1	1	1	0.4	0.01	0.00	0.0	0.0	0.00	0.19
1/3/2012	1,514	3	3	1.7	0.1	9	9	4.4	0.2	1	1	0.4	0.01	0.00	0.0	0.0	0.00	0.24
4/3/2012	1,468	4	3	5.5	0.1	9	9	14.5	0.2	1	1	1.1	0.01	0.00	0.0	0.0	0.00	0.23
7/2/2012	1,455	3	3	5.4	0.1	7	8	13.1	0.1	1	1	1.2	0.01	0.00	0.0	0.0	0.00	0.22
10/3/2012	1,482	4	3	5.5	0.1	9	8	13.1	0.1	1	1	1.2	0.01	0.00	0.0	0.0	0.00	0.21
Average Values [a] =	**1479.8**	**3.4**				**8.5**				**0.7**				**0.0**				**0.2**
Air Emission Standards [b]:	**1465.0**	**12.0**				**27.5**				**1.5**				**NA**				**10**

Notes:
[a] Metropolitan Air Quality Management District in a letter dated December 29, 2003.
[b] Air Emission Standards based on calculations of excess cancer risk (Rule 402, TBACT) and ROC (Rule 202 BACT) presented to the Sacramento Metropolitan Air Quality Management District in a letter dated December 29, 2003.

µg/L - micrograms per liter
gpm - gallons per minute
lbs - pounds
lbs/day - pounds per day
VOC - volatile organic compounds

ROC - Reactive organic compounds. Calculated from adding results from VOC detected compounds (included in this table) above PQLs
PCE - tetrachloroethene
TCE - trichloroethene
1,1-DCE - 1,1-dichloroethene. * This compound is not identified as carcinogenic and therefore is not included in TBACT calculations
CCl_4 - carbon tetrachloride.

APPENDIX E

First Quarter 2012 Analytical Data

TABLE E-1
Analytical Data Summary
Volatile Organic Compounds
Former Mather Air Force Base, Sacramento County, California
January through March 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
7-PTE	SW8260B	NS1	1/3/2012	1/5/2012	No Analytes Detected					
			2/7/2012	2/10/2012	No Analytes Detected					
		FD1	3/6/2012	3/12/2012	No Analytes Detected					
		NS1	3/6/2012	3/12/2012	No Analytes Detected					
7-PTI	SW8260B	NS1	1/3/2012	1/5/2012	1,1-Dichloroethane	0.500 J	0.200	1	µg/L	F
					1,1-Dichloroethene	0.200 J	0.200	0.500	µg/L	F
					1,2-Dichloroethane	0.600	0.100	0.500	µg/L	
					1,2-Dichloropropane	0.300 J	0.100	1	µg/L	F
					cis-1,2-Dichloroethene	1.30	0.100	0.500	µg/L	
					Tetrachloroethene	2	0.100	0.500	µg/L	
					Trichloroethene	13	0.100	0.500	µg/L	
ACW EW-6R	SW8260B	NS1	2/16/2012	2/23/2012	Trichloroethene	4.20	0.100	0.500	µg/L	
ACW PTE	SW8260B	NS1	1/3/2012	1/5/2012	No Analytes Detected					
			2/7/2012	2/10/2012	No Analytes Detected					
			3/6/2012	3/14/2012	No Analytes Detected					
ACW PTI	SW8260B	FD1	1/3/2012	1/6/2012	No Analytes Detected					
				1/7/2012	Trichloroethene	6.90	0.100	0.500	µg/L	
		NS1	1/3/2012	1/6/2012	No Analytes Detected					
				1/7/2012	Trichloroethene	7	0.100	0.500	µg/L	
ACW R2	SW8260B	NS1	1/3/2012	1/5/2012	No Analytes Detected					
MAFB-181	SW8260B	FD1	2/15/2012	2/23/2012	Carbon Tetrachloride	3.80	0.100	0.500	µg/L	
					Chloroform	0.200 J	0.100	0.500	µg/L	F
					Tetrachloroethene	28	0.100	0.500	µg/L	
		NS1	2/15/2012	2/23/2012	Carbon Tetrachloride	3.80	0.100	0.500	µg/L	
					Chloroform	0.200 J	0.100	0.500	µg/L	F

TABLE E-1
Analytical Data Summary
Volatile Organic Compounds
Former Mather Air Force Base, Sacramento County, California
January through March 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MAFB-181 continued . . .										
					Tetrachloroethene	27	0.100	0.500	µg/L	
MAFB-214	SW8260B	NS1	3/6/2012	3/12/2012	Tetrachloroethene	0.300 J	0.100	0.500	µg/L	F
					Trichloroethene	0.100 J	0.100	0.500	µg/L	F
MAFB-231	SW8260B	NS1	3/5/2012	3/12/2012	Chloroform	0.200 J	0.100	0.500	µg/L	BF
					Tetrachloroethene	8.20	0.100	0.500	µg/L	
					Trichloroethene	0.600	0.100	0.500	µg/L	
				3/14/2012	No Analytes Detected					
MAFB-234	SW8260B	NS1	3/5/2012	3/12/2012	Chloroform	0.200 J	0.100	0.500	µg/L	BF
					Tetrachloroethene	1.80	0.100	0.500	µg/L	
				3/14/2012	No Analytes Detected					
MAFB-300	SW8260B	NS1	1/5/2012	1/9/2012	No Analytes Detected					
				1/10/2012	Trichloroethene	0.100 J	0.100	0.500	µg/L	F
MAFB-322	E524.2	NS1	2/14/2012	2/23/2012	No Analytes Detected					
MAFB-323	E524.2	NS1	2/14/2012	2/23/2012	Chloroform	0.120 J	0.0400	0.500	µg/L	F
MAFB-324	E524.2	NS1	2/16/2012	2/23/2012	Chloroform	0.340 J	0.0400	0.500	µg/L	F
					Tetrachloroethene	0.190 J	0.0500	0.200	µg/L	F
MAFB-326	E524.2	NS1	2/14/2012	2/23/2012	Carbon Tetrachloride	0.0860 J	0.0600	0.200	µg/L	F
MAFB-327	E524.2	FD1	2/14/2012	2/23/2012	Carbon Tetrachloride	1.10	0.0600	0.200	µg/L	
					Chloroform	0.0670 J	0.0400	0.500	µg/L	F
					Tetrachloroethene	0.0960 J	0.0500	0.200	µg/L	F
		NS1	2/14/2012	2/23/2012	Carbon Tetrachloride	0.960	0.0600	0.200	µg/L	
					Chloroform	0.0700 J	0.0400	0.500	µg/L	F
					Tetrachloroethene	0.0880 J	0.0500	0.200	µg/L	F
MAFB-328	E524.2	NS1	2/16/2012	2/23/2012	Bromodichloromethane	0.0650 J	0.0200	0.500	µg/L	F
					Chloroform	0.230 J	0.0400	0.500	µg/L	F

TABLE E-1
Analytical Data Summary
Volatile Organic Compounds
Former Mather Air Force Base, Sacramento County, California
January through March 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MAFB-328 continued . . .										
					Tetrachloroethene	0.0980 J	0.0500	0.200	µg/L	F
MAFB-337	E524.2	NS1	2/14/2012	2/23/2012	No Analytes Detected					
MAFB-338	E524.2	FD1	2/16/2012	2/23/2012	Vinyl Chloride	0.120 J	0.0400	0.500	µg/L	F
		NS1	2/16/2012	2/23/2012	Benzene	0.0540 J	0.0300	0.500	µg/L	F
MAFB-349	E524.2	NS1	2/14/2012	2/23/2012	No Analytes Detected					
MAFB-378B	SW8260B	NS1	2/16/2012	2/23/2012	Chloroform	0.700	0.100	0.500	µg/L	
MAFB-378D	SW8260B	NS1	2/16/2012	2/23/2012	No Analytes Detected					
MAFB-397	SW8260B	NS1	2/16/2012	2/23/2012	No Analytes Detected					
MAFB-407	SW8260B	NS1	3/5/2012	3/14/2012	Chloroform	0.100 J	0.100	0.500	µg/L	BF
					Tetrachloroethene	0.400 J	0.100	0.500	µg/L	JF
MAFB-421	SW8260B	FD1	3/5/2012	3/12/2012	Chloroform	0.100 J	0.100	0.500	µg/L	BF
					Tetrachloroethene	1.90	0.100	0.500	µg/L	
					Trichloroethene	0.200 J	0.100	0.500	µg/L	F
		NS1	3/5/2012	3/12/2012	Chloroform	0.100 J	0.100	0.500	µg/L	BF
					Tetrachloroethene	2	0.100	0.500	µg/L	
					Trichloroethene	0.300 J	0.100	0.500	µg/L	F
MAFB-435	SW8260B	NS1	3/5/2012	3/12/2012	Tetrachloroethene	8.70	0.100	0.500	µg/L	
				3/15/2012	Carbon Tetrachloride	1.60	0.100	0.500	µg/L	
MAFB-460Bd	SW8260B	NS1	2/15/2012	2/23/2012	cis-1,2-Dichloroethene	0.200 J	0.100	0.500	µg/L	F
					Trichloroethene	0.500	0.100	0.500	µg/L	
MAFB-460Bs	SW8260B	NS1	2/15/2012	2/23/2012	cis-1,2-Dichloroethene	0.300 J	0.100	0.500	µg/L	F
					Tetrachloroethene	0.400 J	0.100	0.500	µg/L	F
					Trichloroethene	2.20	0.100	0.500	µg/L	
MAFB-461Bd	SW8260B	NS1	2/15/2012	2/23/2012	No Analytes Detected					
MAFB-461Bs	SW8260B	NS1	2/15/2012	2/23/2012	cis-1,2-Dichloroethene	0.100 J	0.100	0.500	µg/L	F

TABLE E-1
Analytical Data Summary
Volatile Organic Compounds
Former Mather Air Force Base, Sacramento County, California
January through March 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MAFB-461Bs continued . . .										
					Trichloroethene	0.200 J	0.100	0.500	µg/L	F
MAFB-462	SW8260B	NS1	2/15/2012	2/23/2012	Chloroform	0.100 J	0.100	0.500	µg/L	F
					Chloromethane	0.200 J	0.100	0.500	µg/L	F
MAFB-463D	SW8260B	NS1	2/14/2012	2/26/2012	Carbon Tetrachloride	0.400 J	0.100	0.500	µg/L	F
					Chloroform	1	0.100	0.500	µg/L	
					Tetrachloroethene	9.20	0.100	0.500	µg/L	
MAFB-463Dd	SW8260B	NS1	2/14/2012	2/24/2012	Chloroform	0.200 J	0.100	0.500	µg/L	F
MAFB-464	SW8260B	NS1	2/15/2012	2/26/2012	No Analytes Detected					
MBS 39ABuB	SW8260B	NS1	3/5/2012	3/12/2012	Chloroform	0.200 J	0.100	0.500	µg/L	BF
					Tetrachloroethene	5.30	0.100	0.500	µg/L	
MBS 39MW02	SW8260B	NS1	3/6/2012	3/14/2012	Bromomethane	0.100 J	0.100	10	µg/L	F
					Tetrachloroethene	0.200 J	0.100	0.500	µg/L	F
					Trichloroethene	0.500 J	0.100	0.500	µg/L	F
MBS 39MW04	SW8260B	NS1	3/5/2012	3/14/2012	No Analytes Detected					
				3/15/2012	Chloroform	0.100 J	0.100	0.500	µg/L	BF
					Tetrachloroethene	2.80	0.100	0.500	µg/L	J
MBS PTE SW	SW8260B	NS1	1/3/2012	1/6/2012	No Analytes Detected					
			2/7/2012	2/11/2012	No Analytes Detected					
			3/6/2012	3/12/2012	No Analytes Detected					
MBS PTI	SW8260B	NS1	1/3/2012	1/9/2012	Carbon Tetrachloride	0.700	0.100	0.500	µg/L	
					Chloroform	0.200 J	0.100	0.500	µg/L	F
					Tetrachloroethene	8.70	0.100	0.500	µg/L	
					Trichloroethene	3.30	0.100	0.500	µg/L	
MORRISON CREEK R1	SW8260B	NS1	1/3/2012	1/6/2012	No Analytes Detected					

TABLE E-1
Analytical Data Summary
Volatile Organic Compounds
Former Mather Air Force Base, Sacramento County, California
January through March 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MORRISON CREEK R2	SW8260B	NS1	1/3/2012	1/6/2012	No Analytes Detected					
			3/6/2012	3/12/2012	No Analytes Detected					
OFB-04	E524.2	NS1	1/25/2012	2/7/2012	No Analytes Detected					
			2/29/2012	3/8/2012	Carbon Tetrachloride	0.120 J	0.0600	0.200	µg/L	F
					Chloroform	0.0620 J	0.0400	0.500	µg/L	F
OFB-27	E524.2	NS1	2/29/2012	3/8/2012	Chloroform	0.240 J	0.0400	0.500	µg/L	F
OFB-32	E524.2	NS1	2/29/2012	3/8/2012	Chloroform	0.0630 J	0.0400	0.500	µg/L	F
					Tetrachloroethene	0.0570 J	0.0500	0.200	µg/L	F
			3/28/2012	4/10/2012	Hexachlorobutadiene	0.110 J	0.0500	0.500	µg/L	BF
					n-Butylbenzene	0.0570 J	0.0400	0.500	µg/L	BF
					P-Cymene (p-Isopropyltoluene)	0.0410 J	0.0300	0.500	µg/L	BF
OFB-51	E524.2	NS1	1/25/2012	2/2/2012	Carbon Tetrachloride	0.460	0.0600	0.200	µg/L	
OFB-51/52E	E524.2	NS1	1/25/2012	1/27/2012	No Analytes Detected					
			2/29/2012	3/8/2012	Chloroform	0.0990 J	0.0400	0.500	µg/L	F
OFB-51/52I	E524.2	NS1	1/25/2012	1/27/2012	Carbon Tetrachloride	0.440	0.0600	0.200	µg/L	
			2/29/2012	3/8/2012	1,1-Dichloroethane	0.0660 J	0.0200	0.500	µg/L	F
					Carbon Tetrachloride	0.310	0.0600	0.200	µg/L	
					Chloroform	0.0970 J	0.0400	0.500	µg/L	F
					cis-1,2-Dichloroethene	0.170 J	0.0200	0.500	µg/L	F
					Tetrachloroethene	0.0740 J	0.0500	0.200	µg/L	F
					Trichloroethene	0.0880 J	0.0300	0.200	µg/L	F
			3/28/2012	4/10/2012	1,1-Dichloroethane	0.0690 J	0.0200	0.500	µg/L	F
					Carbon Tetrachloride	0.260	0.0600	0.200	µg/L	

TABLE E-1
Analytical Data Summary
Volatile Organic Compounds
Former Mather Air Force Base, Sacramento County, California
January through March 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
OFB-51/52I continued . . .										
					Chloroform	0.0550 J	0.0400	0.500	µg/L	BF
					cis-1,2-Dichloroethene	0.240 J	0.0200	0.500	µg/L	F
					n-Butylbenzene	0.0720 J	0.0400	0.500	µg/L	BF
					Tetrachloroethene	0.160 J	0.0500	0.200	µg/L	F
					Trichloroethene	0.190 J	0.0300	0.200	µg/L	F
OFB-51/52M	E524.2	NS1	1/25/2012	1/27/2012	Carbon Tetrachloride	0.340	0.0600	0.200	µg/L	
					Chloroform	0.0670 J	0.0400	0.500	µg/L	F
					cis-1,2-Dichloroethene	0.180 J	0.0200	0.500	µg/L	F
			2/29/2012	3/8/2012	1,1-Dichloroethane	0.0660 J	0.0200	0.500	µg/L	F
					Carbon Tetrachloride	0.340	0.0600	0.200	µg/L	
					Chloroform	0.130 J	0.0400	0.500	µg/L	F
					cis-1,2-Dichloroethene	0.180 J	0.0200	0.500	µg/L	F
		FD1	3/28/2012	4/10/2012	1,1-Dichloroethane	0.110 J	0.0200	0.500	µg/L	F
					Chloroform	0.0630 J	0.0400	0.500	µg/L	BF
					Hexachlorobutadiene	0.100 J	0.0500	0.500	µg/L	BF
					n-Butylbenzene	0.0470 J	0.0400	0.500	µg/L	BF
					P-Cymene (p-Isopropyltoluene)	0.0360 J	0.0300	0.500	µg/L	BF
		NS1	3/28/2012	4/10/2012	1,1-Dichloroethane	0.0880 J	0.0200	0.500	µg/L	F
					1,3,5-Trimethylbenzene	0.0380 J	0.0200	0.500	µg/L	F
					Chloroform	0.0680 J	0.0400	0.500	µg/L	BF
					Hexachlorobutadiene	0.140 J	0.0500	0.500	µg/L	BF
					n-Butylbenzene	0.0650 J	0.0400	0.500	µg/L	BF
					P-Cymene (p-Isopropyltoluene)	0.0340 J	0.0300	0.500	µg/L	BF

TABLE E-1
Analytical Data Summary
Volatile Organic Compounds
Former Mather Air Force Base, Sacramento County, California
January through March 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
OFB-52	E524.2	NS1	1/25/2012	2/2/2012	Chloroform	0.0700 J	0.0400	0.500	µg/L	F
					cis-1,2-Dichloroethene	0.200 J	0.0200	0.500	µg/L	F
OFB-54	E524.2	NS1	2/29/2012	3/8/2012	1,1-Dichloroethene	0.220 J	0.0400	0.500	µg/L	F
					Chloroform	0.380 J	0.0400	0.500	µg/L	F
			3/28/2012	4/10/2012	Bromodichloromethane	0.520	0.0200	0.500	µg/L	
					Bromoform	1.10	0.0500	0.500	µg/L	
					Chloroform	1.40	0.0400	0.500	µg/L	
					Dibromochloromethane	0.720	0.0300	0.500	µg/L	
					n-Butylbenzene	0.0420 J	0.0400	0.500	µg/L	BF
					P-Cymene (p-Isopropyltoluene)	0.0350 J	0.0300	0.500	µg/L	BF
OFB-55	E524.2	NS1	2/29/2012	3/8/2012	Chloroform	0.130 J	0.0400	0.500	µg/L	F
OFB-56	E524.2	NS1	2/29/2012	3/8/2012	No Analytes Detected					
OFB-72	SW8260B	FD1	2/15/2012	2/24/2012	Tetrachloroethene	0.100 J	0.100	0.500	µg/L	F
					Trichloroethene	1	0.100	0.500	µg/L	J
		NS1	2/15/2012	2/24/2012	Tetrachloroethene	0.100 J	0.100	0.500	µg/L	F
					Trichloroethene	1.60	0.100	0.500	µg/L	J
OFB-79	SW8260B	NS1	2/15/2012	2/26/2012	No Analytes Detected					
OFB-80	SW8260B	NS1	2/15/2012	2/26/2012	No Analytes Detected					
OUTFALL 1	SW8260B	NS1	1/4/2012	1/9/2012	No Analytes Detected					
OUTFALL 7	SW8260B	NS1	1/4/2012	1/12/2012	No Analytes Detected					
TRIP BLANK	SW8260B	TB1	1/3/2012	1/6/2012	No Analytes Detected					
			2/7/2012	2/10/2012	Chloroform	0.100 J	0.100	0.500	µg/L	F
			3/6/2012	3/14/2012	Chloroform	0.100 J	0.100	0.500	µg/L	
	E524.2	TB1	3/28/2012	4/10/2012	Chloroform	0.0810 J	0.0400	0.500	µg/L	F

TABLE E-1
Analytical Data Summary
Volatile Organic Compounds
Former Mather Air Force Base, Sacramento County, California
January through March 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
TRIP BLANK continued . . .										
					Hexachlorobutadiene	0.170 J	0.0500	0.500	µg/L	F
					n-Butylbenzene	0.0620 J	0.0400	0.500	µg/L	F
					P-Cymene (p-Isopropyltoluene)	0.0470 J	0.0300	0.500	µg/L	F

Sample Type
FD = Field Duplicate
NS = Normal Sample
TB = Trip Blank

Units
µg/L = micrograms/Liter

Qualified Results (assigned by project chemist)
B = Result is considered not detected.
F = Result is less than the reporting limit but greater than the detection limit.

Lab Flags (next to result)
B = The analyte was detected in the method blank as well as the sample.
J = Result is less than the reporting limit but greater than the detection limit.

TABLE E-2
Analytical Data Summary
Metals
Former Mather Air Force Base, Sacramento County, California
January through March 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
7-PTE	SW6010B*	NS1	1/3/2012	1/5/2012	Calcium	30000	45	500	µg/L	
					Magnesium	17000	13	500	µg/L	
				1/6/2012	Sodium	16000	42	500	µg/L	
7-PTI	SW6010B*	NS1	1/3/2012	1/5/2012	Calcium	30000	45	500	µg/L	
					Magnesium	15000	13	500	µg/L	
				1/6/2012	Sodium	15000	42	500	µg/L	
ACW PTE	SW6010B*	NS1	1/3/2012	1/5/2012	Calcium	9300	45	500	µg/L	
					Magnesium	4900	13	500	µg/L	
				1/6/2012	Sodium	9000	42	500	µg/L	
ACW PTI	SW6010B*	NS1	1/3/2012	1/5/2012	Calcium	9500	45	500	µg/L	
					Magnesium	5100	13	500	µg/L	
				1/6/2012	Sodium	9000	42	500	µg/L	
MBS PTE SW	SW7470A*	FD1	1/3/2012	1/4/2012	No Analytes Detected					
	SW6010B*	FD1	1/3/2012	1/5/2012	Arsenic	2.40 J	2	6.10	µg/L	F
					Barium	52	0.700	5	µg/L	J
					Chromium	1.70 J	1.50	5	µg/L	F
					Vanadium	8.20	1.20	5	µg/L	
	SW6020*	FD1	1/3/2012	1/25/2012	No Analytes Detected					
	SW7470A*	NS1	1/3/2012	1/4/2012	No Analytes Detected					
	SW6010B*	NS1	1/3/2012	1/5/2012	Barium	52	0.700	5	µg/L	J
					Chromium	2 J	1.50	5	µg/L	F
					Vanadium	7.40	1.20	5	µg/L	
	SW6020*	NS1	1/3/2012	1/25/2012	No Analytes Detected					
MBS PTI	SW7470A*	NS1	1/3/2012	1/4/2012	No Analytes Detected					
	SW6010B*	NS1	1/3/2012	1/5/2012	Barium	54	0.700	5	µg/L	J

TABLE E-2
Analytical Data Summary
Metals
Former Mather Air Force Base, Sacramento County, California
January through March 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MBS PTI continued . . .										
					Chromium	2 J	1.50	5	µg/L	F
					Selenium	3.80 J	3.20	10	µg/L	F
					Vanadium	8.20	1.20	5	µg/L	
	SW6020*	NS1	1/3/2012	1/25/2012	No Analytes Detected					
MORRISON CREEK	SW6020*	NS1	1/3/2012	1/24/2012	Lead	0.930 J	0.120	1	µg/L	BF
MORRISON CREEK	SW6020*	NS1	1/3/2012	1/24/2012	Lead	0.690 J	0.120	1	µg/L	BF
					Selenium	0.320 J	0.220	1	µg/L	F
OUTFALL 1	SW6020	NS1	1/4/2012	1/16/2012	Lead	4	0.120	1	µg/L	
OUTFALL 7	SW6020	NS1	1/4/2012	1/24/2012	Arsenic	1.50	0.180	1	µg/L	

Sample Type
FD = Field Duplicate
NS = Normal Sample

Units
µg/L = micrograms/Liter

Qualified Results (assigned by project chemist)
F = Result is less than the reporting limit but greater than the detection limit.

Lab Flags (next to result)
J = Result is less than the reporting limit but greater than the detection limit.

* = filtered in the field

TABLE E-3
Analytical Data Summary
Total Petroleum Hydrocarbons as Diesel and Gasoline
Former Mather Air Force Base, Sacramento County, California
January through March 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
7-PTE	M8015V	NS1	1/3/2012	1/4/2012	Gasoline	16 J	13	50	µg/L	BF
	M8015D	NS1	1/3/2012	1/5/2012	No Analytes Detected					
7-PTI	M8015V	NS1	1/3/2012	1/4/2012	Gasoline	31 J	13	50	µg/L	BF
	M8015D	NS1	1/3/2012	1/5/2012	Diesel	21 J	9.60	50	µg/L	BF
MAFB-214	M8015V	NS1	3/6/2012	3/8/2012	Gasoline	18 J	6.70	50	µg/L	BF
MAFB-231	M8015V	NS1	3/5/2012	3/8/2012	Gasoline	19 J	6.70	50	µg/L	BF
MAFB-234	M8015V	NS1	3/5/2012	3/8/2012	Gasoline	20 J	6.70	50	µg/L	BF
MAFB-407	M8015V	NS1	3/5/2012	3/8/2012	Gasoline	15 J	6.70	50	µg/L	BF
MAFB-421	M8015V	FD1	3/5/2012	3/8/2012	Gasoline	15 J	6.70	50	µg/L	BF
		NS1	3/5/2012		Gasoline	17 J	6.70	50	µg/L	BF
MBS 39ABuB	M8015V	NS1	3/5/2012	3/8/2012	Gasoline	14 J	6.70	50	µg/L	BF
MBS 39MW02	M8015V	NS1	3/6/2012	3/9/2012	Gasoline	17 J	6.70	50	µg/L	BF
MBS 39MW04	M8015V	NS1	3/5/2012	3/9/2012	Gasoline	20 J	6.70	50	µg/L	BF
MBS PTE SW	M8015V	NS1	1/3/2012	1/4/2012	Gasoline	17 J	13	50	µg/L	BF
	M8015D	NS1	1/3/2012	1/5/2012	Diesel	11 J	9.60	50	µg/L	BF
MBS PTI	M8015D	FD1	1/3/2012	1/5/2012	Diesel	12 J	9.60	50	µg/L	BF
	M8015V	FD1	1/3/2012	1/5/2012	Gasoline	21 J	13	50	µg/L	BF
	M8015D	NS1	1/3/2012	1/5/2012	Diesel	14 J	9.60	50	µg/L	BF
	M8015V	NS1	1/3/2012	1/5/2012	Gasoline	28 J	13	50	µg/L	BF
OUTFALL 1	M8015D	NS1	1/4/2012	1/12/2012	Diesel	170 Y	9.60	50	µg/L	J
TRIP BLANK	M8015V	TB1	1/3/2012	1/5/2012	Gasoline	18 J	13	50	µg/L	BF
			3/6/2012	3/8/2012	Gasoline	20 J	6.70	50	µg/L	BF

TABLE E-3
Analytical Data Summary
Total Petroleum Hydrocarbons as Diesel and Gasoline
Former Mather Air Force Base, Sacramento County, California
January through March 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result

Sample Type
FD = Field Duplicate
NS = Normal Sample
TB = Trip Blank

Units
µg/L = micrograms/Liter

Qualified Results (assigned by project chemist)
B = Result is considered not detected.
F = Result is less than the reporting limit but greater than the detection limit.

Lab Flags (next to result)
J = Result is less than the reporting limit but greater than the detection limit.
Y = ??? - chemist will have to provide

TABLE E-4
Analytical Data Summary
General Chemistry
Former Mather Air Force Base, Sacramento County, California
January through March 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
7-PTE	E300.0	NS1	1/3/2012	1/4/2012	Chloride	9.50	0.0140	0.200	mg/L	
					Nitrite, Nitrate-Nonspecific	2.40	0.0100	0.0500	mg/L	
					Sulfate	23	0.0260	0.500	mg/L	
	E130.2	NS1	1/3/2012	1/5/2012	Hardness, as CaCO3	170	3.30	3.30	mg/L	
	A2540C	NS1	1/3/2012	1/5/2012	Total Dissolved Solids	250	10	10	mg/L	
	A2320	NS1	1/3/2012	1/9/2012	Alkalinity	130	6.70	6.70	mg/L	
					Bicarbonate	130	6.70	6.70	mg/L	
7-PTI	E300.0	NS1	1/3/2012	1/4/2012	Chloride	9.50	0.0140	0.200	mg/L	
					Nitrite, Nitrate-Nonspecific	2.40	0.0100	0.0500	mg/L	
					Sulfate	24	0.0260	0.500	mg/L	
	E130.2	NS1	1/3/2012	1/5/2012	Hardness, as CaCO3	150	3.30	3.30	mg/L	
	A2540C	NS1	1/3/2012	1/5/2012	Total Dissolved Solids	260	10	10	mg/L	
	A2320	NS1	1/3/2012	1/9/2012	Alkalinity	140	6.70	6.70	mg/L	
					Bicarbonate	140	6.70	6.70	mg/L	
ACW PTE	E300.0	NS1	1/3/2012	1/4/2012	Chloride	3.50	0.0140	0.200	mg/L	
					Nitrite, Nitrate-Nonspecific	2.80	0.0100	0.0500	mg/L	
					Sulfate	2.10	0.0260	0.500	mg/L	
	E130.2	NS1	1/3/2012	1/5/2012	Hardness, as CaCO3	49	3.30	3.30	mg/L	
	A2540C	NS1	1/3/2012	1/5/2012	Total Dissolved Solids	120	10	10	mg/L	
	A2320	NS1	1/3/2012	1/9/2012	Alkalinity	49	1	1	mg/L	
					Bicarbonate	49	1	1	mg/L	
ACW PTI	E300.0	NS1	1/3/2012	1/4/2012	Chloride	3.50	0.0140	0.200	mg/L	
					Nitrite, Nitrate-Nonspecific	2.80	0.0100	0.0500	mg/L	
					Sulfate	2.10	0.0260	0.500	mg/L	
	A2540C	NS1	1/3/2012	1/5/2012	Total Dissolved Solids	130	10	10	mg/L	

TABLE E-4
Analytical Data Summary
General Chemistry
Former Mather Air Force Base, Sacramento County, California
January through March 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
ACW PTI continued . . .										
	E130.2	NS1	1/3/2012	1/6/2012	Hardness, as CaCO3	43	3.30	3.30	mg/L	
	A2320	NS1	1/3/2012	1/9/2012	Alkalinity	49	1	1	mg/L	
					Bicarbonate	49	1	1	mg/L	
MBS PTE SW	E300.0	NS1	1/3/2012	1/4/2012	Chloride	7.80	0.0140	0.200	mg/L	
					Nitrite, Nitrate-Nonspecific	3.40	0.0100	0.0500	mg/L	
					Sulfate	11	0.0260	0.500	mg/L	
	A2540C	NS1	1/3/2012	1/5/2012	Total Dissolved Solids	200	10	10	mg/L	
	E130.2	NS1	1/3/2012	1/6/2012	Hardness, as CaCO3	93	3.30	3.30	mg/L	
	A2320	NS1	1/3/2012	1/9/2012	Alkalinity	98	4	4	mg/L	
					Bicarbonate	98	4	4	mg/L	
	E160.2	NS1	1/5/2012	1/6/2012	No Analytes Detected					
			3/6/2012	3/9/2012	No Analytes Detected					
MBS PTI	E300.0	NS1	1/3/2012	1/4/2012	Chloride	7.70	0.0140	0.200	mg/L	
					Nitrite, Nitrate-Nonspecific	3.40	0.0100	0.0500	mg/L	
					Sulfate	11	0.0260	0.500	mg/L	
	A2540C	NS1	1/3/2012	1/5/2012	Total Dissolved Solids	190	10	10	mg/L	J
	E130.2	NS1	1/3/2012	1/6/2012	Hardness, as CaCO3	92	3.30	3.30	mg/L	
	A2320	NS1	1/3/2012	1/9/2012	Alkalinity	95	4	4	mg/L	
					Bicarbonate	95	4	4	mg/L	
MORRISON CREEK R1	E130.2	NS1	1/3/2012	1/6/2012	Hardness, as CaCO3	43	3.30	3.30	mg/L	
	E160.2	NS1	1/3/2012	1/6/2012	Total Suspended Solids	19	5	5	mg/L	
MORRISON CREEK R2	E130.2	NS1	1/3/2012	1/6/2012	Hardness, as CaCO3	63	3.30	3.30	mg/L	
	E160.2	NS1	1/3/2012	1/6/2012	No Analytes Detected					

TABLE E-4
Analytical Data Summary
General Chemistry
Former Mather Air Force Base, Sacramento County, California
January through March 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
OUTFALL 1	A2540C	NS1	1/4/2012	1/9/2012	Total Dissolved Solids	210	10	10	mg/L	J
OUTFALL 7	A2540C	NS1	1/4/2012	1/9/2012	Total Dissolved Solids	4340	25	25	mg/L	
OUTFALL 9	A2540C	NS1	3/21/2012	3/28/2012	Total Dissolved Solids	150	10	10	mg/L	J

Sample Type
FD = Field Duplicate
NS = Normal Sample

Units
mg/L = milligrams/Liter

APPENDIX F

Second Quarter 2012 Analytical Data

TABLE F-1
Analytical Data Summary
Volatile Organic Compounds
Former Mather Air Force Base, Sacramento County, California
April through June 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
7-BV-08	SW8260B	FD1	5/3/2012	5/14/2012	Trichloroethene	7.30	0.100	0.500	µg/L	
				5/16/2012	Tetrachloroethene	0.800	0.100	0.500	µg/L	
		NS1	5/3/2012	5/14/2012	Trichloroethene	7.10	0.100	0.500	µg/L	
				5/16/2012	Tetrachloroethene	0.900	0.100	0.500	µg/L	
7-PTE	SW8260B	NS1	4/3/2012	4/5/2012	No Analytes Detected					
			5/1/2012	5/9/2012	No Analytes Detected					
		FD1	6/5/2012	6/11/2012	No Analytes Detected					
		NS1	6/5/2012	6/11/2012	No Analytes Detected					
7-PTI	SW8260B	NS1	4/3/2012	4/6/2012	1,1-Dichloroethane	0.500 J	0.200	1	µg/L	F
					1,1-Dichloroethene	0.200 J	0.200	0.500	µg/L	F
					1,2-Dichloroethane	0.600	0.100	0.500	µg/L	
					1,2-Dichloropropane	0.300 J	0.100	1	µg/L	F
					cis-1,2-Dichloroethene	1.70	0.100	0.500	µg/L	
					Tetrachloroethene	2.20	0.100	0.500	µg/L	
					Trichloroethene	14	0.100	0.500	µg/L	
7-PZ-37P	SW8260B	FD1	5/8/2012	5/17/2012	1,1-Dichloroethane	0.300 J	0.100	1	µg/L	F
					1,1-Dichloroethene	0.300 J	0.100	0.500	µg/L	F
					1,2-Dichlorobenzene	0.400 J	0.100	2	µg/L	F
					1,4-Dichlorobenzene	0.800	0.100	0.500	µg/L	
					Chlorobenzene	1.70 J	0.100	2.50	µg/L	F
					cis-1,2-Dichloroethene	0.800	0.100	0.500	µg/L	
					Tetrachloroethene	1.40	0.100	0.500	µg/L	
					Trichloroethene	5	0.100	0.500	µg/L	
		NS1	5/8/2012	5/17/2012	1,1-Dichloroethane	0.300 J	0.100	1	µg/L	F
					1,1-Dichloroethene	0.300 J	0.100	0.500	µg/L	F

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7-PZ-37P continued . . .										
					1,2-Dichlorobenzene	0.400 J	0.100	2	µg/L	F
					1,4-Dichlorobenzene	0.800	0.100	0.500	µg/L	
					Chlorobenzene	1.80 J	0.100	2.50	µg/L	F
					cis-1,2-Dichloroethene	0.900	0.100	0.500	µg/L	
					Tetrachloroethene	1.40	0.100	0.500	µg/L	
					Trichloroethene	5.20	0.100	0.500	µg/L	
ACW AT-1	SW8260B	NS1	5/11/2012	5/22/2012	Chloroform	0.200 J	0.100	0.500	µg/L	BF
					Trichloroethene	22	0.100	0.500	µg/L	J
ACW AT-2	SW8260B	FD1	5/11/2012	5/22/2012	Trichloroethene	13	0.100	0.500	µg/L	J
		NS1	5/11/2012	5/22/2012	Trichloroethene	14	0.100	0.500	µg/L	J
ACW EW-1	SW8260B	NS1	5/11/2012	5/22/2012	Trichloroethene	8.50	0.100	0.500	µg/L	J
ACW EW-2	SW8260B	NS1	5/11/2012	5/22/2012	Trichloroethene	2.50	0.100	0.500	µg/L	J
ACW EW-3	SW8260B	NS1	5/11/2012	5/22/2012	Trichloroethene	2.40	0.100	0.500	µg/L	J
ACW EW-4	SW8260B	NS1	5/11/2012	5/22/2012	Trichloroethene	0.100 J	0.100	0.500	µg/L	FJ
ACW EW-6R	SW8260B	NS1	5/11/2012	5/22/2012	Trichloroethene	3.70	0.100	0.500	µg/L	J
ACW PTE	SW8260B	NS1	4/3/2012	4/5/2012	No Analytes Detected					
		FD1	5/1/2012	5/9/2012	No Analytes Detected					
		NS1	5/1/2012	5/9/2012	No Analytes Detected					
			6/5/2012	6/11/2012	No Analytes Detected					
ACW PTI	SW8260B	NS1	4/3/2012	4/5/2012	Trichloroethene	5.80	0.100	0.500	µg/L	
ACW R2	SW8260B	NS1	4/3/2012	4/5/2012	No Analytes Detected					
FFS MW15-6	SW8260B	NS1	5/10/2012	5/23/2012	Carbon Tetrachloride	0.900	0.100	0.500	µg/L	
					Chloroform	0.500	0.100	0.500	µg/L	B
					cis-1,2-Dichloroethene	0.300 J	0.100	0.500	µg/L	F
					Tetrachloroethene	4	0.100	0.500	µg/L	

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FFS MW15-6 continued . . .										
					Trichloroethene	6.30	0.100	0.500	µg/L	
MAFB-041	SW8260B	NS1	5/7/2012	5/16/2012	1,2-Dichloroethane	3.70	0.100	0.500	µg/L	
					1,2-Dichloropropane	3.20	0.100	1	µg/L	
					cis-1,2-Dichloroethene	4.90	0.100	0.500	µg/L	
					Tetrachloroethene	1.20	0.100	0.500	µg/L	
					Trichloroethene	17	0.100	0.500	µg/L	
MAFB-104	SW8260B	FD1	5/9/2012	5/17/2012	Carbon Tetrachloride	1	0.100	0.500	µg/L	
					Chloroform	0.200 J	0.100	0.500	µg/L	F
					cis-1,2-Dichloroethene	0.200 J	0.100	0.500	µg/L	F
					Tetrachloroethene	12	0.100	0.500	µg/L	
					Trichloroethene	2.40	0.100	0.500	µg/L	
		NS1	5/9/2012	5/17/2012	Carbon Tetrachloride	0.900	0.100	0.500	µg/L	
					Chloroform	0.200 J	0.100	0.500	µg/L	F
					cis-1,2-Dichloroethene	0.200 J	0.100	0.500	µg/L	F
					Tetrachloroethene	12	0.100	0.500	µg/L	
					Trichloroethene	2.40	0.100	0.500	µg/L	
MAFB-111	SW8260B	NS1	5/9/2012	5/17/2012	Tetrachloroethene	1.40	0.100	0.500	µg/L	
					Trichloroethene	0.100 J	0.100	0.500	µg/L	F
MAFB-112	SW8260B	NS1	5/2/2012	5/14/2012	cis-1,2-Dichloroethene	0.200 J	0.100	0.500	µg/L	F
					Trichloroethene	0.100 J	0.100	0.500	µg/L	F
				5/16/2012	Tetrachloroethene	0.800	0.100	0.500	µg/L	
MAFB-132	SW8260B	NS1	5/9/2012	5/17/2012	1,2-Dichloroethane	0.200 J	0.100	0.500	µg/L	F
					1,2-Dichloropropane	0.100 J	0.100	1	µg/L	F
					cis-1,2-Dichloroethene	34	0.100	0.500	µg/L	
					Tetrachloroethene	35	0.100	0.500	µg/L	

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MAFB-132 continued . . .										
					Trichloroethene	7.20	0.100	0.500	µg/L	
MAFB-133	SW8260B	NS1	4/30/2012	5/7/2012	cis-1,2-Dichloroethene	2.10	0.100	0.500	µg/L	
					Tetrachloroethene	5.10	0.100	0.500	µg/L	
					Trichloroethene	0.700	0.100	0.500	µg/L	
MAFB-136	SW8260B	NS1	5/9/2012	5/17/2012	cis-1,2-Dichloroethene	2	0.100	0.500	µg/L	
					Tetrachloroethene	2.20	0.100	0.500	µg/L	
					Trichloroethene	0.400 J	0.100	0.500	µg/L	F
MAFB-149	SW8260B	NS1	5/8/2012	5/17/2012	1,1-Dichloroethene	0.500	0.100	0.500	µg/L	
					Tetrachloroethene	0.200 J	0.100	0.500	µg/L	F
MAFB-181	SW8260B	NS1	5/9/2012	5/18/2012	Tetrachloroethene	27	0.100	0.500	µg/L	
				5/19/2012	Carbon Tetrachloride	2.90	0.100	0.500	µg/L	J
					Chloroform	0.200 J	0.100	0.500	µg/L	FJ
MAFB-222	SW8260B	NS1	5/1/2012	5/7/2012	Carbon Tetrachloride	0.600	0.100	0.500	µg/L	
					Chloroform	0.200 J	0.100	0.500	µg/L	F
					Tetrachloroethene	3.50	0.100	0.500	µg/L	
					Trichloroethene	1.50	0.100	0.500	µg/L	
MAFB-243	SW8260B	FD1	5/30/2012	6/6/2012	Carbon Tetrachloride	0.700	0.100	0.500	µg/L	
					Chloroform	0.200 J	0.100	0.500	µg/L	F
					Tetrachloroethene	1.90	0.100	0.500	µg/L	
					Trichloroethene	0.900	0.100	0.500	µg/L	
		NS1	5/30/2012	6/6/2012	Carbon Tetrachloride	0.800	0.100	0.500	µg/L	
					Chloroform	0.200 J	0.100	0.500	µg/L	F
					Tetrachloroethene	2.10	0.100	0.500	µg/L	
					Trichloroethene	0.900	0.100	0.500	µg/L	
MAFB-284	SW8260B	NS1	5/8/2012	5/18/2012	1,2-Dichloroethane	0.300 J	0.100	0.500	µg/L	FJ

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MAFB-284 continued . . .										
					1,2-Dichloropropane	0.400 J	0.100	1	µg/L	FJ
					cis-1,2-Dichloroethene	0.400 J	0.100	0.500	µg/L	FJ
					Tetrachloroethene	1.10	0.100	0.500	µg/L	J
					Trichloroethene	5.20	0.100	0.500	µg/L	J
MAFB-301	SW8260B	FD1	5/1/2012	5/7/2012	Trichloroethene	1.90	0.100	0.500	µg/L	J
		NS1	5/1/2012	5/7/2012	Trichloroethene	2.40	0.100	0.500	µg/L	J
MAFB-322	E524.2	NS1	5/1/2012	5/11/2012	No Analytes Detected					
MAFB-323	E524.2	NS1	5/4/2012	5/11/2012	Chloroform	0.210 J	0.0400	0.500	µg/L	F
MAFB-324	E524.2	NS1	5/4/2012	5/11/2012	Chloroform	0.440 J	0.0400	0.500	µg/L	F
					Tetrachloroethene	0.220	0.0500	0.200	µg/L	
MAFB-326	E524.2	NS1	5/4/2012	5/11/2012	No Analytes Detected					
MAFB-327	E524.2	NS1	5/4/2012	5/11/2012	Carbon Tetrachloride	1.30	0.0600	0.200	µg/L	
					Tetrachloroethene	0.150 J	0.0500	0.200	µg/L	F
MAFB-328	E524.2	NS1	5/4/2012	5/11/2012	Chloroform	0.340 J	0.0400	0.500	µg/L	F
MAFB-330	E524.2	FD1	5/4/2012	5/11/2012	1,1-Dichloroethane	0.190 J	0.0200	0.500	µg/L	F
					Carbon Tetrachloride	0.940	0.0600	0.200	µg/L	
					Chloroform	0.170 J	0.0400	0.500	µg/L	FJ
					Tetrachloroethene	0.640	0.0500	0.200	µg/L	
					Trichloroethene	0.800	0.0300	0.200	µg/L	
		NS1	5/4/2012	5/11/2012	1,3,5-Trimethylbenzene	0.0360 J	0.0200	0.500	µg/L	BF
					Carbon Tetrachloride	0.840	0.0600	0.200	µg/L	
					Chloroform	0.120 J	0.0400	0.500	µg/L	FJ
					cis-1,2-Dichloroethene	0.210 J	0.0200	0.500	µg/L	F
					Tetrachloroethene	0.630	0.0500	0.200	µg/L	
					Trichloroethene	0.730	0.0300	0.200	µg/L	

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Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MAFB-337	E524.2	NS1	5/4/2012	5/11/2012	No Analytes Detected					
MAFB-338	E524.2	NS1	5/4/2012	5/11/2012	Toluene	0.130 J	0.100	0.500	µg/L	F
MAFB-349	E524.2	NS1	5/4/2012	5/11/2012	Total Xylenes	0.290 J	0.110	0.500	µg/L	F
MAFB-378B	SW8260B	NS1	5/9/2012	5/18/2012	No Analytes Detected					
				5/19/2012	Chloroform	0.700	0.100	0.500	µg/L	
MAFB-378D	SW8260B	NS1	5/9/2012	5/20/2012	No Analytes Detected					
MAFB-391	SW8260B	FD1	5/7/2012	5/16/2012	1,2-Dichloroethane	0.300 J	0.100	0.500	µg/L	F
					1,2-Dichloropropane	0.300 J	0.100	1	µg/L	F
					cis-1,2-Dichloroethene	0.300 J	0.100	0.500	µg/L	F
					Tetrachloroethene	0.200 J	0.100	0.500	µg/L	F
					Trichloroethene	2.20	0.100	0.500	µg/L	
		NS1	5/7/2012	5/16/2012	1,2-Dichloroethane	0.300 J	0.100	0.500	µg/L	F
					1,2-Dichloropropane	0.300 J	0.100	1	µg/L	F
					cis-1,2-Dichloroethene	0.300 J	0.100	0.500	µg/L	F
					Tetrachloroethene	0.300 J	0.100	0.500	µg/L	F
					Trichloroethene	2.20	0.100	0.500	µg/L	
MAFB-397	SW8260B	NS1	5/9/2012	5/20/2012	Chloromethane	0.100 J	0.100	0.500	µg/L	F
MAFB-398	SW8260B	NS1	5/8/2012	5/18/2012	No Analytes Detected					
				5/19/2012	cis-1,2-Dichloroethene	0.700	0.100	0.500	µg/L	
					Tetrachloroethene	6.40	0.100	0.500	µg/L	
					Trichloroethene	0.800	0.100	0.500	µg/L	
MAFB-398C	SW8260B	NS1	4/30/2012	5/7/2012	1,2-Dichloropropane	0.500 J	0.100	1	µg/L	F
					cis-1,2-Dichloroethene	6.60	0.100	0.500	µg/L	
					Tetrachloroethene	3.70	0.100	0.500	µg/L	
					Trichloroethene	0.900	0.100	0.500	µg/L	

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Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MAFB-399	SW8260B	NS1	5/1/2012	5/7/2012	cis-1,2-Dichloroethene	3	0.100	0.500	µg/L	
					Tetrachloroethene	4.30	0.100	0.500	µg/L	
					Trichloroethene	0.700	0.100	0.500	µg/L	
MAFB-400	SW8260B	FD1	5/4/2012	5/14/2012	cis-1,2-Dichloroethene	3.80	0.100	0.500	µg/L	
					Tetrachloroethene	6.40	0.100	0.500	µg/L	J
					Trichloroethene	1.30	0.100	0.500	µg/L	
		NS1	5/4/2012	5/15/2012	cis-1,2-Dichloroethene	3.50	0.100	0.500	µg/L	
					Tetrachloroethene	5	0.100	0.500	µg/L	J
					Trichloroethene	1.20	0.100	0.500	µg/L	
MAFB-403	SW8260B	NS1	5/8/2012	5/18/2012	Trichloroethene	4.70	0.100	0.500	µg/L	J
MAFB-413	SW8260B	NS1	5/2/2012	5/10/2012	No Analytes Detected					
				5/11/2012	No Analytes Detected					
MAFB-430	SW8260B	NS1	5/10/2012	5/23/2012	Carbon Tetrachloride	0.500 J	0.100	0.500	µg/L	F
					Tetrachloroethene	1.90	0.100	0.500	µg/L	
MAFB-435	SW8260B	NS1	5/9/2012	5/18/2012	No Analytes Detected					
				5/19/2012	Carbon Tetrachloride	1.20	0.100	0.500	µg/L	
					Tetrachloroethene	9	0.100	0.500	µg/L	
MAFB-436	SW8260B	NS1	5/4/2012	5/15/2012	Carbon Tetrachloride	0.200 J	0.100	0.500	µg/L	F
					Chloroform	0.100 J	0.100	0.500	µg/L	F
					Tetrachloroethene	4.80	0.100	0.500	µg/L	
					Trichloroethene	0.400 J	0.100	0.500	µg/L	
MAFB-448	SW8260B	FD1	5/7/2012	5/17/2012	Tetrachloroethene	1	0.100	0.500	µg/L	
					Trichloroethene	4.40	0.100	0.500	µg/L	
		NS1	5/7/2012	5/17/2012	Tetrachloroethene	0.900	0.100	0.500	µg/L	
					Trichloroethene	4.50	0.100	0.500	µg/L	

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MAFB-453	SW8260B	NS1	5/10/2012	5/23/2012	cis-1,2-Dichloroethene	0.600	0.100	0.500	µg/L	
					Trichloroethene	28	0.100	0.500	µg/L	
MAFB-460Bd	SW8260B	NS1	5/7/2012	5/17/2012	Trichloroethene	0.500	0.100	0.500	µg/L	
MAFB-460Bs	SW8260B	NS1	5/7/2012	5/17/2012	cis-1,2-Dichloroethene	0.200 J	0.100	0.500	µg/L	F
					Tetrachloroethene	0.300 J	0.100	0.500	µg/L	F
					Trichloroethene	2.20	0.100	0.500	µg/L	
MAFB-461Bd	SW8260B	NS1	5/7/2012	5/17/2012	No Analytes Detected					
MAFB-461Bs	SW8260B	NS1	5/7/2012	5/17/2012	Trichloroethene	0.300 J	0.100	0.500	µg/L	F
MAFB-462	SW8260B	NS1	5/7/2012	5/17/2012	No Analytes Detected					
MAFB-463D	SW8260B	NS1	5/9/2012	5/17/2012	Carbon Tetrachloride	0.300 J	0.100	0.500	µg/L	F
					Chloroform	0.700	0.100	0.500	µg/L	
					Tetrachloroethene	10	0.100	0.500	µg/L	
					Trichloroethene	0.300 J	0.100	0.500	µg/L	F
MAFB-463Dd	SW8260B	NS1	5/9/2012	5/22/2012	Chloroform	0.100 J	0.100	0.500	µg/L	F
					Tetrachloroethene	0.200 J	0.100	0.500	µg/L	F
MAFB-464	SW8260B	NS1	5/7/2012	5/17/2012	No Analytes Detected					
MBS 19EW01	SW8260B	NS1	5/7/2012	5/17/2012	Chloroform	0.300 J	0.100	0.500	µg/L	F
					Tetrachloroethene	0.800	0.100	0.500	µg/L	
MBS 19MW01	SW8260B	NS1	5/9/2012	5/17/2012	Carbon Tetrachloride	0.200 J	0.100	0.500	µg/L	F
					Chloroform	0.300 J	0.100	0.500	µg/L	F
					Tetrachloroethene	1.50	0.100	0.500	µg/L	
MBS 39EW02	SW8260B	NS1	5/4/2012	5/15/2012	Chloroform	0.200 J	0.100	0.500	µg/L	F
					Tetrachloroethene	1.90	0.100	0.500	µg/L	
					Trichloroethene	0.100 J	0.100	0.500	µg/L	F
MBS 39MW03	SW8260B	NS1	5/4/2012	5/15/2012	Chloroform	0.200 J	0.100	0.500	µg/L	F

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MBS 39MW03 continued . . .										
					Tetrachloroethene	2.10	0.100	0.500	µg/L	
MBS EW-12AB	SW8260B	NS1	5/11/2012	5/23/2012	Chloroform	0.100 J	0.100	0.500	µg/L	BF
					Tetrachloroethene	0.900	0.100	0.500	µg/L	
MBS EW-2AR	SW8260B	NS1	5/10/2012	5/23/2012	1,1-Dichloroethene	1.20	0.100	0.500	µg/L	
					1,2-Dichloroethane	0.100 J	0.100	0.500	µg/L	F
					Carbon Tetrachloride	12	0.100	0.500	µg/L	
					Chloroform	1.50	0.100	0.500	µg/L	
					cis-1,2-Dichloroethene	0.400 J	0.100	0.500	µg/L	F
					Tetrachloroethene	7.50	0.100	0.500	µg/L	
					Trichloroethene	15	0.100	0.500	µg/L	
MBS EW-5B	SW8260B	NS1	5/10/2012	5/22/2012	Carbon Tetrachloride	0.400 Jb	0.100	0.500	µg/L	FJ
					Chloroform	0.400 J	0.100	0.500	µg/L	BF
					Tetrachloroethene	4.90	0.100	0.500	µg/L	J
MBS EW6ABu	SW8260B	NS1	5/15/2012	5/24/2012	Tetrachloroethene	0.200 J	0.100	0.500	µg/L	F
					Trichloroethene	0.200 J	0.100	0.500	µg/L	F
MBS EW-6B	SW8260B	NS1	5/10/2012	5/23/2012	Carbon Tetrachloride	0.100 J	0.100	0.500	µg/L	F
					Chloroform	0.700	0.100	0.500	µg/L	
					Tetrachloroethene	1.90	0.100	0.500	µg/L	
					Trichloroethene	0.300 J	0.100	0.500	µg/L	F
MBS EW7ABu	SW8260B	NS1	5/15/2012	5/24/2012	Chloroform	0.100 J	0.100	0.500	µg/L	F
					Tetrachloroethene	1.50	0.100	0.500	µg/L	
					Trichloroethene	0.300 J	0.100	0.500	µg/L	F
MBS EW-8B	SW8260B	NS1	5/15/2012	5/24/2012	Chloroform	0.200 J	0.100	0.500	µg/L	F
					Tetrachloroethene	2.80	0.100	0.500	µg/L	
					Trichloroethene	0.100 J	0.100	0.500	µg/L	F

TABLE F-1
Analytical Data Summary
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Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MBS PTE SW	SW8260B	NS1	4/3/2012	4/6/2012	Chlorobenzene	0.100 J	0.100	2.50	µg/L	F
			5/1/2012	5/11/2012	No Analytes Detected					
			6/5/2012	6/11/2012	No Analytes Detected					
MBS PTI	SW8260B	NS1	4/3/2012	4/6/2012	Carbon Tetrachloride	0.700	0.100	0.500	µg/L	
					Chloroform	0.200 J	0.100	0.500	µg/L	F
					cis-1,2-Dichloroethene	0.200 J	0.100	0.500	µg/L	F
					Tetrachloroethene	9.40	0.100	0.500	µg/L	
					Trichloroethene	3.60	0.100	0.500	µg/L	
MBS PZ-42S	SW8260B	FD1	5/10/2012	5/23/2012	Chloroform	0.400 J	0.100	0.500	µg/L	BF
					Tetrachloroethene	2.60	0.100	0.500	µg/L	
		NS1	5/10/2012	5/23/2012	Chloroform	0.400 J	0.100	0.500	µg/L	BF
					Tetrachloroethene	2.70	0.100	0.500	µg/L	
MORRISON CREEK	SW8260B	NS1	4/3/2012	4/6/2012	No Analytes Detected					
MORRISON CREEK	SW8260B	NS1	4/3/2012	4/5/2012	No Analytes Detected					
OFB-04	E524.2	NS1	5/30/2012	6/9/2012	Carbon Tetrachloride	0.170 J	0.0600	0.200	µg/L	F
			6/27/2012	7/3/2012	Carbon Tetrachloride	0.520	0.0600	0.200	µg/L	
OFB-06	SW8260B	NS1	5/22/2012	5/29/2012	No Analytes Detected					
OFB-07	SW8260B	NS1	5/22/2012	5/30/2012	cis-1,2-Dichloroethene	0.300 J	0.100	0.500	µg/L	F
					Tetrachloroethene	0.300 J	0.100	0.500	µg/L	F
					Trichloroethene	1.60	0.100	0.500	µg/L	
OFB-12	SW8260B	NS1	5/22/2012	5/29/2012	Tetrachloroethene	1.10	0.100	0.500	µg/L	
					Trichloroethene	1.70	0.100	0.500	µg/L	
OFB-17	SW8260B	NS1	5/29/2012	6/6/2012	No Analytes Detected					
OFB-24	SW8260B	FD1	5/22/2012	5/29/2012	Chloroform	0.800	0.100	0.500	µg/L	
					Tetrachloroethene	1.90	0.100	0.500	µg/L	

TABLE F-1
Analytical Data Summary
Volatile Organic Compounds
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Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
OFB-24 continued . . .										
					Trichloroethene	0.700	0.100	0.500	µg/L	
		NS1	5/22/2012	5/29/2012	Chloroform	0.800	0.100	0.500	µg/L	
					Tetrachloroethene	2	0.100	0.500	µg/L	
					Trichloroethene	0.700	0.100	0.500	µg/L	
OFB-27	E524.2	NS1	5/30/2012	6/13/2012	Chloroform	0.0880 J	0.0400	0.500	µg/L	F
					Trichloroethene	0.0430 J	0.0300	0.200	µg/L	F
OFB-32	E524.2	NS1	5/30/2012	6/8/2012	Tetrachloroethene	0.0530 J	0.0500	0.200	µg/L	F
OFB-39	SW8260B	NS1	5/21/2012	5/30/2012	No Analytes Detected					
OFB-40	SW8260B	NS1	5/22/2012	5/30/2012	No Analytes Detected					
OFB-43	SW8260B	NS1	5/21/2012	5/30/2012	No Analytes Detected					
OFB-47	SW8260B	NS1	5/22/2012	5/30/2012	No Analytes Detected					
OFB-48	SW8260B	NS1	5/22/2012	5/30/2012	No Analytes Detected					
OFB-49	E524.2	NS1	6/27/2012	7/3/2012	No Analytes Detected					
OFB-51	E524.2	NS1	5/30/2012	6/8/2012	Carbon Tetrachloride	0.850	0.0600	0.200	µg/L	
					Chloroform	0.0950 J	0.0400	0.500	µg/L	F
OFB-51/52I	E524.2	NS1	4/24/2012	4/26/2012	1,1-Dichloroethane	0.0960 J	0.0200	0.500	µg/L	F
					Carbon Tetrachloride	0.220	0.0600	0.200	µg/L	
					cis-1,2-Dichloroethene	0.230 J	0.0200	0.500	µg/L	F
					Tetrachloroethene	0.0530 J	0.0500	0.200	µg/L	F
					Trichloroethene	0.150 J	0.0300	0.200	µg/L	F
			5/30/2012	6/8/2012	1,1-Dichloroethane	0.0920 J	0.0200	0.500	µg/L	F
					Carbon Tetrachloride	0.360	0.0600	0.200	µg/L	
					Chloroform	0.0630 J	0.0400	0.500	µg/L	F
					cis-1,2-Dichloroethene	0.300 J	0.0200	0.500	µg/L	F
					Tetrachloroethene	0.0660 J	0.0500	0.200	µg/L	F

TABLE F-1
Analytical Data Summary
Volatile Organic Compounds
Former Mather Air Force Base, Sacramento County, California
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Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
OFB-51/52I continued . . .										
					Trichloroethene	0.250	0.0300	0.200	µg/L	
			6/27/2012	7/3/2012	Carbon Tetrachloride	0.710	0.0600	0.200	µg/L	
					cis-1,2-Dichloroethene	0.140 J	0.0200	0.500	µg/L	F
					P-Cymene (p-Isopropyltoluene)	0.0840 J	0.0300	0.500	µg/L	F
					Trichloroethene	0.100 J	0.0300	0.200	µg/L	F
OFB-51/52M	E524.2	NS1	4/24/2012	4/26/2012	1,1-Dichloroethane	0.130 J	0.0200	0.500	µg/L	F
					Chloroform	0.0630 J	0.0400	0.500	µg/L	F
			5/30/2012	6/8/2012	1,1-Dichloroethane	0.200 J	0.0200	0.500	µg/L	F
					Chloroform	0.130 J	0.0400	0.500	µg/L	F
		FD1	6/27/2012	7/3/2012	1,1-Dichloroethane	0.120 J	0.0200	0.500	µg/L	F
					Chloroform	0.0920 J	0.0400	0.500	µg/L	F
					P-Cymene (p-Isopropyltoluene)	0.0660 J	0.0300	0.500	µg/L	F
		NS1	6/27/2012	7/3/2012	No Analytes Detected					
OFB-52	E524.2	NS1	5/30/2012	6/8/2012	1,1-Dichloroethane	0.0660 J	0.0200	0.500	µg/L	F
					Carbon Tetrachloride	0.270	0.0600	0.200	µg/L	
					Chloroform	0.0590 J	0.0400	0.500	µg/L	F
					cis-1,2-Dichloroethene	0.240 J	0.0200	0.500	µg/L	F
					Tetrachloroethene	0.0960 J	0.0500	0.200	µg/L	F
					Trichloroethene	0.210	0.0300	0.200	µg/L	
OFB-53	SW8260B	NS1	5/22/2012	5/30/2012	No Analytes Detected					
OFB-54	E524.2	NS1	5/30/2012	6/9/2012	1,1-Dichloroethene	0.380 J	0.0400	0.500	µg/L	F
					Chloroform	0.700	0.0400	0.500	µg/L	
OFB-55	E524.2	NS1	5/30/2012	6/9/2012	Chloroform	0.160 J	0.0400	0.500	µg/L	F

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Volatile Organic Compounds
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Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
OFB-56	E524.2	FD1	5/30/2012	6/9/2012	No Analytes Detected					
		NS1	5/30/2012	6/9/2012	No Analytes Detected					
OFB-57	SW8260B	NS1	5/21/2012	5/30/2012	No Analytes Detected					
OFB-67	SW8260B	NS1	5/22/2012	5/30/2012	No Analytes Detected					
OFB-69	SW8260B	NS1	5/21/2012	5/30/2012	No Analytes Detected					
OFB-71	SW8260B	NS1	5/21/2012	5/30/2012	No Analytes Detected					
OFB-72	SW8260B	NS1	5/21/2012	5/30/2012	cis-1,2-Dichloroethene	0.200 J	0.100	0.500	µg/L	F
					Tetrachloroethene	0.300 J	0.100	0.500	µg/L	F
					Trichloroethene	2.10	0.100	0.500	µg/L	
OFB-73	SW8260B	NS1	5/21/2012	5/30/2012	No Analytes Detected					
OFB-74	SW8260B	NS1	5/21/2012	5/30/2012	No Analytes Detected					
OFB-75	SW8260B	NS1	5/21/2012	5/30/2012	No Analytes Detected					
OFB-76	SW8260B	NS1	5/21/2012	5/30/2012	No Analytes Detected					
OFB-77	SW8260B	NS1	5/22/2012	5/30/2012	No Analytes Detected					
OFB-78	SW8260B	NS1	5/22/2012	5/30/2012	No Analytes Detected					
OFB-79	SW8260B	NS1	5/22/2012	5/30/2012	No Analytes Detected					
OFB-80	SW8260B	NS1	5/22/2012	5/30/2012	No Analytes Detected					
OFB-81	SW8260B	NS1	5/22/2012	5/30/2012	No Analytes Detected					
OFB-82	SW8260B	NS1	5/21/2012	5/30/2012	No Analytes Detected					
OFB-84	SW8260B	NS1	5/21/2012	5/30/2012	No Analytes Detected					
OFB-85	SW8260B	NS1	5/21/2012	5/30/2012	No Analytes Detected					
OFB-86	SW8260B	NS1	5/22/2012	5/30/2012	No Analytes Detected					
OUTFALL 1	SW8260B	NS1	5/9/2012	5/19/2012	Chloroform	0.200 J	0.100	0.500	µg/L	FJ
					Tetrachloroethene	0.400 J	0.100	0.500	µg/L	FJ
OUTFALL 6	SW8260B	NS1	4/10/2012	4/13/2012	Tetrachloroethene	14	0.100	0.500	µg/L	

TABLE F-1
Analytical Data Summary
Volatile Organic Compounds
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Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
TRIP BLANK	SW8260B	TB1	4/3/2012	4/6/2012	No Analytes Detected					
	E524.2	TB1	4/24/2012	4/26/2012	No Analytes Detected					
	SW8260B	TB1	5/1/2012	5/9/2012	No Analytes Detected					
			5/4/2012	5/15/2012	No Analytes Detected					
				5/16/2012	No Analytes Detected					
	E524.2	TB1	5/7/2012	5/11/2012	1,3,5-Trimethylbenzene	0.0530 J	0.0200	0.500	µg/L	F
	SW8260B	TB1	5/9/2012	5/17/2012	No Analytes Detected					
			5/11/2012	5/22/2012	Chloroform	0.100 J	0.100	0.500	µg/L	F
			5/16/2012	5/24/2012	No Analytes Detected					
					No Analytes Detected					
			5/23/2012	5/29/2012	No Analytes Detected					
			5/30/2012	6/6/2012	No Analytes Detected					
	E524.2	TB1	5/30/2012	6/8/2012	No Analytes Detected					
				6/9/2012	No Analytes Detected					
	SW8260B	TB1	6/5/2012	6/11/2012	No Analytes Detected					
	E524.2	TB1	6/27/2012	7/3/2012	No Analytes Detected					

Sample Type
FD = Field Duplicate
NS = Normal Sample
TB = Trip Blank

Units
µg/L = micrograms/Liter

TABLE F-1
Analytical Data Summary
Volatile Organic Compounds
Former Mather Air Force Base, Sacramento County, California
April through June 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result

Qualified Results (assigned by project chemist)

B = Result is considered not detected.
F = Result is less than the reporting limit but greater than the detection limit.
J = Analyte concentration considered an estimated value because one or more quality control specifications were not met.

Lab Flags (next to result)

b = laboratory footnote
J = Result is less than the reporting limit but greater than the detection limit.

TABLE F-2
Analytical Data Summary
Metals
Former Mather Air Force Base, Sacramento County, California
April through June 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
7-PTE	SW6010B*	NS1	4/3/2012	4/9/2012	Calcium	30000	8.20	500	µg/L	M
					Magnesium	15000	16	500	µg/L	
					Manganese	0.180 J	0.170	5	µg/L	BF
					Sodium	15000	22	500	µg/L	
					Zinc	6.50 J	2.30	20	µg/L	F
7-PTI	SW6010B*	NS1	4/3/2012	4/9/2012	Calcium	28000	8.20	500	µg/L	
					Magnesium	14000	16	500	µg/L	
					Sodium	15000	22	500	µg/L	
					Zinc	4.80 J	2.30	20	µg/L	F
7-PZ-37P	SW6020*	NS1	5/8/2012	5/13/2012	Antimony	0.310 J	0.140	1	µg/L	F
					Arsenic	0.860 J	0.150	1	µg/L	BF
					Beryllium	0.210 J	0.200	1	µg/L	F
					Cadmium	0.420 J	0.0750	1	µg/L	F
					Chromium	0.660 J	0.230	1	µg/L	F
					Cobalt	0.260 J	0.230	1	µg/L	F
					Manganese	960	0.170	1	µg/L	J
					Nickel	6.70	0.180	1	µg/L	
					Selenium	0.420 J	0.260	1	µg/L	BF
					Vanadium	5.60	0.140	1	µg/L	
				5/14/2012	Barium	87	0.110	1	µg/L	
	SW7470A*	NS1	5/8/2012	5/15/2012	Mercury	0.0370 J	0.0200	0.200	µg/L	BF
ACW PTE	SW6010B*	NS1	4/3/2012	4/9/2012	Calcium	8900	8.20	500	µg/L	M

TABLE F-2
Analytical Data Summary
Metals
Former Mather Air Force Base, Sacramento County, California
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Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
ACW PTE continued . . .										
					Magnesium	4600	16	500	µg/L	
					Sodium	9000	22	500	µg/L	
ACW PTI	SW6010B*	NS1	4/3/2012	4/9/2012	Calcium	8800	8.20	500	µg/L	
					Magnesium	4500	16	500	µg/L	
					Manganese	0.200 J	0.170	5	µg/L	BF
					Sodium	8900	22	500	µg/L	
					Zinc	8 J	2.30	20	µg/L	F
MAFB-111	SW6010B*	NS1	5/9/2012	5/15/2012	No Analytes Detected					
MAFB-112	SW6010B*	NS1	5/2/2012	5/10/2012	Chromium	18	0.630	5	µg/L	
					Nickel	280	1.20	5	µg/L	
MAFB-129	SW6010B*	NS1	5/8/2012	5/15/2012	Chromium	1.50 J	0.510	5	µg/L	F
					Nickel	1.80 J	0.760	5	µg/L	F
MAFB-132	SW6020*	FD1	5/9/2012	5/13/2012	Antimony	3.90	0.140	1	µg/L	J
					Arsenic	0.700 J	0.150	1	µg/L	BF
					Beryllium	0.340 J	0.200	1	µg/L	F
					Chromium	7.20	0.230	1	µg/L	
					Cobalt	0.310 J	0.230	1	µg/L	F
					Manganese	4.20	0.170	1	µg/L	
					Nickel	76	0.180	1	µg/L	
					Selenium	0.510 J	0.260	1	µg/L	BF
					Vanadium	4.60	0.140	1	µg/L	
				5/14/2012	Barium	50	0.110	1	µg/L	

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Analytical Data Summary
Metals
Former Mather Air Force Base, Sacramento County, California
April through June 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MAFB-132 continued . . .										
	SW7470A*	FD1	5/9/2012	5/15/2012	Mercury	0.0540 J	0.0200	0.200	µg/L	BF
	SW6020*	NS1	5/9/2012	5/13/2012	Antimony	0.270 J	0.140	1	µg/L	FJ
					Arsenic	0.690 J	0.150	1	µg/L	BF
					Chromium	5.90	0.230	1	µg/L	
					Manganese	4.80	0.170	1	µg/L	
					Nickel	77	0.180	1	µg/L	
					Selenium	0.380 J	0.260	1	µg/L	BF
					Vanadium	4.70	0.140	1	µg/L	
				5/14/2012	Barium	49	0.110	1	µg/L	
	SW7470A*	NS1	5/9/2012	5/15/2012	Mercury	0.0470 J	0.0200	0.200	µg/L	BF
MAFB-133	SW6010B*	NS1	4/30/2012	5/6/2012	Barium	21	0.380	5	µg/L	
					Chromium	0.850 J	0.510	5	µg/L	F
					Vanadium	5.30	0.460	5	µg/L	
	SW7470A*	NS1	4/30/2012	5/7/2012	Mercury	0.0430 J	0.0200	0.200	µg/L	BF
	SW6020*	NS1	4/30/2012	5/8/2012	Thallium	0.310 J	0.0770	1	µg/L	F
MAFB-136	SW6020*	NS1	5/9/2012	5/13/2012	Antimony	0.280 J	0.140	1	µg/L	F
					Arsenic	1.20	0.150	1	µg/L	
					Chromium	5	0.230	1	µg/L	
					Manganese	0.690 J	0.170	1	µg/L	F
					Nickel	32	0.180	1	µg/L	
					Selenium	0.720 J	0.260	1	µg/L	BF
					Vanadium	5.40	0.140	1	µg/L	

TABLE F-2
Analytical Data Summary
Metals
Former Mather Air Force Base, Sacramento County, California
April through June 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MAFB-136 continued . . .										
				5/14/2012	Barium	30	0.110	1	µg/L	
	SW7470A*	NS1	5/9/2012	5/15/2012	Mercury	0.0480 J	0.0200	0.200	µg/L	BF
MAFB-149	SW6020*	NS1	5/8/2012	5/13/2012	Arsenic	1.80	0.150	1	µg/L	
					Chromium	5	0.230	1	µg/L	
					Nickel	10	0.180	1	µg/L	
					Vanadium	14	0.140	1	µg/L	
				5/14/2012	Barium	26	0.110	1	µg/L	
	SW7470A*	NS1	5/8/2012	5/15/2012	Mercury	0.0430 J	0.0200	0.200	µg/L	BF
MAFB-284	SW6020*	NS1	5/8/2012	5/13/2012	Antimony	0.150 J	0.140	1	µg/L	F
					Arsenic	1.70	0.150	1	µg/L	
					Chromium	6.20	0.230	1	µg/L	
					Selenium	0.410 J	0.260	1	µg/L	BF
					Vanadium	12	0.140	1	µg/L	
				5/14/2012	Barium	46	0.110	1	µg/L	
	SW7470A*	NS1	5/8/2012	5/15/2012	Mercury	0.0490 J	0.0200	0.200	µg/L	BF
MAFB-288	SW6010B*	NS1	5/8/2012	5/15/2012	No Analytes Detected					
MAFB-398	SW6020*	FD1	5/8/2012	5/13/2012	Antimony	0.170 J	0.140	1	µg/L	F
					Arsenic	0.990 J	0.150	1	µg/L	BF
					Chromium	0.550 J	0.230	1	µg/L	FJ
					Manganese	0.810 J	0.170	1	µg/L	BF
					Vanadium	6.80	0.140	1	µg/L	
				5/14/2012	Barium	39	0.110	1	µg/L	

TABLE F-2
Analytical Data Summary
Metals
Former Mather Air Force Base, Sacramento County, California
April through June 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MAFB-398 continued . . .										
	SW7470A*	FD1	5/8/2012	5/15/2012	Mercury	0.0480 J	0.0200	0.200	µg/L	BF
	SW6020*	NS1	5/8/2012	5/14/2012	Antimony	0.150 J	0.140	1	µg/L	F
					Arsenic	0.890 J	0.150	1	µg/L	BF
					Barium	40	0.110	1	µg/L	
					Chromium	0.820 J	0.230	1	µg/L	FJ
					Manganese	0.730 J	0.170	1	µg/L	BF
					Selenium	0.260 J	0.260	1	µg/L	BF
					Vanadium	7.20	0.140	1	µg/L	
	SW7470A*	NS1	5/8/2012	5/15/2012	Mercury	0.0470 J	0.0200	0.200	µg/L	BF
MAFB-398C	SW6010B*	FD1	4/30/2012	5/6/2012	Barium	47	0.380	5	µg/L	
					Chromium	0.770 J	0.510	5	µg/L	FJ
					Vanadium	3.50 J	0.460	5	µg/L	FJ
					Zinc	3.90 J	2.30	20	µg/L	BF
	SW7470A*	FD1	4/30/2012	5/7/2012	Mercury	0.0560 J	0.0200	0.200	µg/L	BF
	SW6020*	FD1	4/30/2012	5/8/2012	No Analytes Detected					
	SW6010B*	NS1	4/30/2012	5/6/2012	Barium	45	0.380	5	µg/L	
					Chromium	0.520 J	0.510	5	µg/L	FJ
					Nickel	0.810 J	0.760	5	µg/L	F
					Vanadium	2.30 J	0.460	5	µg/L	FJ
					Zinc	13 J	2.30	20	µg/L	BF
	SW7470A*	NS1	4/30/2012	5/7/2012	Mercury	0.0590 J	0.0200	0.200	µg/L	BF
	SW6020*	NS1	4/30/2012	5/8/2012	No Analytes Detected					

TABLE F-2
Analytical Data Summary
Metals
Former Mather Air Force Base, Sacramento County, California
April through June 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MAFB-399	SW6010B*	NS1	5/1/2012	5/6/2012	Barium	30	0.380	5	µg/L	
					Chromium	0.640 J	0.510	5	µg/L	F
					Vanadium	6.90	0.460	5	µg/L	
					Zinc	2.30 J	2.30	20	µg/L	BF
	SW7470A*	NS1	5/1/2012	5/7/2012	Mercury	0.0620 J	0.0200	0.200	µg/L	BF
	SW6020*	NS1	5/1/2012	5/8/2012	No Analytes Detected					
MAFB-400	SW7470A*	NS1	5/4/2012	5/8/2012	No Analytes Detected					
	SW6010B*	NS1	5/4/2012	5/10/2012	Barium	120	0.180	5	µg/L	
					Chromium	0.710 J	0.630	5	µg/L	F
					Nickel	1.80 J	1.20	5	µg/L	F
					Vanadium	4.10 J	0.710	5	µg/L	F
	SW6020*	NS1	5/4/2012	5/11/2012	No Analytes Detected					
MAFB-413	SW6010B*	NS1	5/2/2012	5/6/2012	Barium	49	0.380	5	µg/L	
					Chromium	2.20 J	0.510	5	µg/L	F
					Vanadium	8.20	0.460	5	µg/L	
	SW7470A*	NS1	5/2/2012	5/7/2012	Mercury	0.0570 J	0.0200	0.200	µg/L	BF
	SW6020*	NS1	5/2/2012	5/8/2012	No Analytes Detected					
MBS PTE SW	SW6010B*	NS1	4/3/2012	4/9/2012	Barium	56	0.180	5	µg/L	J
					Chromium	3.50 J	0.630	5	µg/L	F
	SW7470A*	NS1	4/3/2012	4/9/2012	Mercury	0.0230 J	0.0200	0.200	µg/L	BF
	SW6010B*	NS1	4/3/2012	4/9/2012	Vanadium	9.80	0.710	5	µg/L	
	SW6020*	NS1	4/3/2012	4/11/2012	No Analytes Detected					

TABLE F-2
Analytical Data Summary
Metals
Former Mather Air Force Base, Sacramento County, California
April through June 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MBS PTE SW continued . . .										
	SW6020	NS1	4/3/2012	4/11/2012	Selenium	0.360 J	0.260	1	µg/L	BF
MBS PTI	SW6010B*	NS1	4/3/2012	4/9/2012	Barium	55	0.180	5	µg/L	
					Chromium	3.50 J	0.630	5	µg/L	F
	SW7470A*	NS1	4/3/2012	4/9/2012	Mercury	0.0360 J	0.0200	0.200	µg/L	BF
	SW6010B*	NS1	4/3/2012	4/9/2012	Vanadium	10	0.710	5	µg/L	
	SW6020*	NS1	4/3/2012	4/11/2012	No Analytes Detected					
MORRISON CREEK R1	SW6020*	NS1	4/3/2012	4/11/2012	No Analytes Detected					
	SW6020	NS1	4/3/2012	4/11/2012	Selenium	0.600 J	0.260	1	µg/L	BF
MORRISON CREEK R2	SW6020*	NS1	4/3/2012	4/11/2012	No Analytes Detected					
	SW6020	NS1	4/3/2012	4/11/2012	Selenium	0.320 J	0.260	1	µg/L	F
OUTFALL 1	SW6020	NS1	5/9/2012	5/11/2012	No Analytes Detected					

Sample Type
FD = Field Duplicate
NS = Normal Sample

Units
µg/L = micrograms/Liter

TABLE F-2
Analytical Data Summary
Metals
Former Mather Air Force Base, Sacramento County, California
April through June 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result

Qualified Results (assigned by project chemist)

B = Result is considered not detected.
F = Result is less than the reporting limit but greater than the detection limit.
J = Analyte concentration considered an estimated value because one or more quality control specifications were not met.

Lab Flags (next to result)

J = Result is less than the reporting limit but greater than the detection limit.

* = filtered in the field

TABLE F-3
Analytical Data Summary
Total Petroleum Hydrocarbons as Diesel and Gasoline
Former Mather Air Force Base, Sacramento County, California
April through June 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
7-PTE	M8015V	NS1	4/3/2012	4/5/2012	Gasoline	24 J	13	50	µg/L	BF
	M8015D	NS1	4/3/2012	4/10/2012	Diesel	20 J	12	50	µg/L	F
7-PTI	M8015V	NS1	4/3/2012	4/5/2012	Gasoline	33 J	13	50	µg/L	BF
	M8015D	NS1	4/3/2012	4/10/2012	No Analytes Detected					
7-PZ-37P	M8015V	FD1	5/8/2012	5/11/2012	Gasoline	21 J	6.20	50	µg/L	BF
	M8015D	FD1	5/8/2012	5/12/2012	Diesel	430 Y	17	53	µg/L	J
	M8015V	NS1	5/8/2012	5/11/2012	Gasoline	21 J	6.20	50	µg/L	BF
	M8015D	NS1	5/8/2012	5/12/2012	Diesel	430 Y	17	53	µg/L	J
MAFB-149	M8015V	NS1	5/8/2012	5/11/2012	Gasoline	30 J	6.20	50	µg/L	BF
	M8015D	NS1	5/8/2012	5/12/2012	Diesel	17 J	16	51	µg/L	F
MAFB-284	M8015D	NS1	5/8/2012	5/12/2012	Diesel	17 J	16	50	µg/L	F
	M8015V	NS1	5/8/2012	5/12/2012	Gasoline	11 J	6.20	50	µg/L	BF
MAFB-413	M8015V	NS1	5/2/2012	5/4/2012	Gasoline	15 J	6.70	50	µg/L	BF
	M8015D	NS1	5/2/2012	5/7/2012	Diesel	21 J	16	50	µg/L	BF
MAFB-436	M8015V	NS1	5/4/2012	5/10/2012	Gasoline	15 J	11	50	µg/L	BF
MBS 39EW02	M8015V	NS1	5/4/2012	5/10/2012	Gasoline	12 J	11	50	µg/L	BF
MBS 39MW03	M8015V	NS1	5/4/2012	5/10/2012	No Analytes Detected					
MBS PTE SW	M8015V	NS1	4/3/2012	4/5/2012	Gasoline	22 J	13	50	µg/L	BF
	M8015D	NS1	4/3/2012	4/10/2012	No Analytes Detected					
MBS PTI	M8015V	NS1	4/3/2012	4/6/2012	Gasoline	32 J	13	50	µg/L	BF
	M8015D	NS1	4/3/2012	4/10/2012	No Analytes Detected					
OUTFALL 1	M8015D	NS1	5/9/2012	5/13/2012	Diesel	64 Y	16	50	µg/L	J

TABLE F-3
Analytical Data Summary
Total Petroleum Hydrocarbons as Diesel and Gasoline
Former Mather Air Force Base, Sacramento County, California
April through June 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
TRIP BLANK	M8015V	TB1	4/3/2012	4/6/2012	Gasoline	18 J	13	50	µg/L	BF
			5/2/2012	5/4/2012	Gasoline	12 J	6.70	50	µg/L	BF
			5/4/2012	5/9/2012	Gasoline	13 J	11	50	µg/L	F
			5/9/2012	5/11/2012	Gasoline	10 J	6.20	50	µg/L	F

Sample Type
FD = Field Duplicate
NS = Normal Sample

Units
µg/L = micrograms/Liter

Qualified Results (assigned by project chemist)
B = Result is considered not detected.
F = Result is less than the reporting limit but greater than the detection limit.
J = Analyte concentration considered an estimated value because one or more quality control specifications were not met.

Lab Flags (next to result)
Y = Sample chromatogram does not match standard chromatogram.
J = Result is less than the reporting limit but greater than the detection limit.

TABLE F-4
Analytical Data Summary
General Chemistry
Former Mather Air Force Base, Sacramento County, California
April through June 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
7-PTE	E300.0	NS1	4/3/2012	4/4/2012	Chloride	9.10	0.0140	0.200	mg/L	
					Nitrite, Nitrate-Nonspecific	2.40	0.0100	0.0500	mg/L	
					Sulfate	21	0.0260	0.500	mg/L	
	A2320	NS1	4/3/2012	4/6/2012	Alkalinity	150	6.70	6.70	mg/L	
					Alkalinity,bicarbonate (as CaCO3)	150	6.70	6.70	mg/L	
	E130.2	NS1	4/3/2012	4/9/2012	Total Hardness	130	3.30	3.30	mg/L	
	A2540C	NS1	4/3/2012	4/10/2012	Total Dissolved Solids	220	10	10	mg/L	
7-PTI	E300.0	NS1	4/3/2012	4/4/2012	Chloride	9	0.0140	0.200	mg/L	
					Nitrite, Nitrate-Nonspecific	2.40	0.0100	0.0500	mg/L	
					Sulfate	21	0.0260	0.500	mg/L	
	A2320	NS1	4/3/2012	4/6/2012	Alkalinity	140	6.70	6.70	mg/L	
					Alkalinity,bicarbonate (as CaCO3)	140	6.70	6.70	mg/L	
	E130.2	NS1	4/3/2012	4/9/2012	Total Hardness	140	3.30	3.30	mg/L	
	A2540C	NS1	4/3/2012	4/10/2012	Total Dissolved Solids	230	10	10	mg/L	
ACW PTE	E300.0	NS1	4/3/2012	4/4/2012	Chloride	3.10	0.0140	0.200	mg/L	
					Nitrite, Nitrate-Nonspecific	2.70	0.0100	0.0500	mg/L	
					Sulfate	1.70	0.0260	0.500	mg/L	
	A2320	NS1	4/3/2012	4/6/2012	Alkalinity	46	1	1	mg/L	
					Alkalinity,bicarbonate (as CaCO3)	46	1	1	mg/L	
	E130.2	NS1	4/3/2012	4/9/2012	Hardness, as CaCO3	41	3.30	3.30	mg/L	
	A2540C	NS1	4/3/2012	4/10/2012	Total Dissolved Solids	100	10	10	mg/L	
ACW PTI	E300.0	NS1	4/3/2012	4/4/2012	Chloride	3.10	0.0140	0.200	mg/L	

TABLE F-4
Analytical Data Summary
General Chemistry
Former Mather Air Force Base, Sacramento County, California
April through June 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
ACW PTI continued . . .										
					Nitrite, Nitrate-Nonspecific	2.70	0.0100	0.0500	mg/L	
					Sulfate	1.80	0.0260	0.500	mg/L	
	A2320	NS1	4/3/2012	4/6/2012	Alkalinity	47	1	1	mg/L	
					Alkalinity,bicarbonate (as CaCO3)	47	1	1	mg/L	
	E130.2	NS1	4/3/2012	4/9/2012	Hardness, as CaCO3	43	3.30	3.30	mg/L	
	A2540C	NS1	4/3/2012	4/10/2012	Total Dissolved Solids	110	10	10	mg/L	
MAFB-132	E300.0	NS1	5/9/2012	5/10/2012	Chloride	34	0.0580	1	mg/L	
					Fluoride	0.170	0.00800	0.100	mg/L	
					Sulfate	5.30	0.0470	0.500	mg/L	
	E376.2	NS1	5/9/2012	5/11/2012	No Analytes Detected					
	A2320	NS1	5/9/2012	5/14/2012	Alkalinity	230	10	10	mg/L	
					Bicarbonate	230	10	10	mg/L	
	A2540C	NS1	5/9/2012	5/14/2012	Total Dissolved Solids	330	10	10	mg/L	
MAFB-133	E376.2	NS1	4/30/2012	5/3/2012	No Analytes Detected					
	A2320	NS1	4/30/2012	5/4/2012	Alkalinity	95	4	4	mg/L	
					Alkalinity,bicarbonate (as CaCO3)	95	4	4	mg/L	
	E300.0	NS1	4/30/2012	5/4/2012	Chloride	4.50	0.0120	0.200	mg/L	
					Fluoride	0.200	0.00800	0.100	mg/L	
					Sulfate	11	0.0470	0.500	mg/L	
	A2540C	NS1	4/30/2012	5/7/2012	Total Dissolved Solids	160	10	10	mg/L	
MAFB-136	E300.0	NS1	5/9/2012	5/10/2012	Chloride	32	0.0580	1	mg/L	
					Fluoride	0.200	0.00800	0.100	mg/L	
					Sulfate	10	0.0470	0.500	mg/L	

TABLE F-4
Analytical Data Summary
General Chemistry
Former Mather Air Force Base, Sacramento County, California
April through June 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MAFB-136 continued . . .										
	E376.2	NS1	5/9/2012	5/11/2012	No Analytes Detected					
	A2320	NS1	5/9/2012	5/14/2012	Alkalinity	65	1	1	mg/L	
					Bicarbonate	65	1	1	mg/L	
	A2540C	NS1	5/9/2012	5/14/2012	Total Dissolved Solids	210	10	10	mg/L	
MAFB-398	E300.0	FD1	5/8/2012	5/10/2012	Chloride	7.20	0.0580	1	mg/L	
					Fluoride	0.100	0.00800	0.100	mg/L	
					Sulfate	12	0.0470	0.500	mg/L	
	E376.2	FD1	5/8/2012	5/11/2012	Sulfide	0.0900	0.00600	0.0400	mg/L	J
	A2320	FD1	5/8/2012	5/14/2012	Alkalinity	200	1	1	mg/L	
					Bicarbonate	200	1	1	mg/L	
	A2540C	FD1	5/8/2012	5/15/2012	Total Dissolved Solids	300	10	10	mg/L	
	E300.0	NS1	5/8/2012	5/10/2012	Chloride	7.30	0.0580	1	mg/L	
					Fluoride	0.110	0.00800	0.100	mg/L	
					Sulfate	12	0.0470	0.500	mg/L	
	E376.2	NS1	5/8/2012	5/11/2012	No Analytes Detected					
	A2320	NS1	5/8/2012	5/14/2012	Alkalinity	240	10	10	mg/L	
					Bicarbonate	240	10	10	mg/L	
	A2540C	NS1	5/8/2012	5/15/2012	Total Dissolved Solids	310	10	10	mg/L	
MAFB-398C	E376.2	NS1	4/30/2012	5/3/2012	Sulfide	0.140	0.00600	0.0400	mg/L	
	A2320	NS1	4/30/2012	5/4/2012	Alkalinity	100	4	4	mg/L	
					Alkalinity,bicarbonate (as CaCO3)	100	4	4	mg/L	
	E300.0	NS1	4/30/2012	5/4/2012	Chloride	7.80	0.0230	0.400	mg/L	
					Fluoride	0.160	0.00800	0.100	mg/L	
					Sulfate	3.90	0.0470	0.500	mg/L	

TABLE F-4
Analytical Data Summary
General Chemistry
Former Mather Air Force Base, Sacramento County, California
April through June 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MAFB-398C continued . . .										
	A2540C	NS1	4/30/2012	5/7/2012	Total Dissolved Solids	170	10	10	mg/L	
MAFB-399	E376.2	NS1	5/1/2012	5/3/2012	No Analytes Detected					
	A2320	NS1	5/1/2012	5/4/2012	Alkalinity	160	4	4	mg/L	
					Alkalinity,bicarbonate (as CaCO3)	160	4	4	mg/L	
	E300.0	NS1	5/1/2012	5/4/2012	Chloride	5.60	0.0120	0.200	mg/L	
					Fluoride	0.170	0.00800	0.100	mg/L	
					Sulfate	4.90	0.0470	0.500	mg/L	
	A2540C	NS1	5/1/2012	5/7/2012	Total Dissolved Solids	140	10	10	mg/L	
MAFB-400	A2320	NS1	5/4/2012	5/8/2012	Alkalinity	190	6.70	6.70	mg/L	
					Bicarbonate	190	6.70	6.70	mg/L	
	E300.0	NS1	5/4/2012	5/8/2012	Chloride	55	0.0580	1	mg/L	
					Fluoride	0.110	0.00800	0.100	mg/L	
					Sulfate	12	0.0470	0.500	mg/L	
	E376.2	NS1	5/4/2012	5/9/2012	No Analytes Detected					
	A2540C	NS1	5/4/2012	5/9/2012	Total Dissolved Solids	350	10	10	mg/L	J
MBS PTE SW	E300.0	NS1	4/3/2012	4/4/2012	Chloride	7.20	0.0140	0.200	mg/L	
					Nitrite, Nitrate-Nonspecific	3.20	0.0100	0.0500	mg/L	
					Sulfate	9.30	0.0260	0.500	mg/L	
	A2320	NS1	4/3/2012	4/6/2012	Alkalinity	96	1	1	mg/L	
					Alkalinity,bicarbonate (as CaCO3)	96	1	1	mg/L	
	E160.2	NS1	4/3/2012	4/9/2012	No Analytes Detected					
	E130.2	NS1	4/3/2012	4/11/2012	Hardness, as CaCO3	87	3.30	3.30	mg/L	
	A2540C	NS1	4/3/2012	4/11/2012	Total Dissolved Solids	180	10	10	mg/L	J

TABLE F-4
Analytical Data Summary
General Chemistry
Former Mather Air Force Base, Sacramento County, California
April through June 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MBS PTI	E300.0	NS1	4/3/2012	4/4/2012	Chloride	7.10	0.0140	0.200	mg/L	
					Nitrite, Nitrate-Nonspecific	3.20	0.0100	0.0500	mg/L	
					Sulfate	9.20	0.0260	0.500	mg/L	
	A2320	NS1	4/3/2012	4/6/2012	Alkalinity	95	1	1	mg/L	
					Alkalinity,bicarbonate (as CaCO3)	95	1	1	mg/L	
	E130.2	NS1	4/3/2012	4/9/2012	Hardness, as CaCO3	93	3.30	3.30	mg/L	
	A2540C	NS1	4/3/2012	4/10/2012	Total Dissolved Solids	170	10	10	mg/L	J
MORRISON CREEK R1	E160.2	NS1	4/3/2012	4/9/2012	No Analytes Detected					
	E130.2	NS1	4/3/2012	4/11/2012	Hardness, as CaCO3	50	3.30	3.30	mg/L	
MORRISON CREEK R2	E130.2	NS1	4/3/2012	4/9/2012	Hardness, as CaCO3	53	3.30	3.30	mg/L	
	E160.2	NS1	4/3/2012	4/9/2012	Total Suspended Solids	6	5	5	mg/L	J
OUTFALL 6	A2540C	NS1	4/10/2012	4/16/2012	Total Dissolved Solids	34	10	10	mg/L	J

Sample Type
FD = Field Duplicate
NS = Normal Sample

Units
mg/L = milligrams/Liter

Qualified Results (assigned by project chemist)
F = Result is less than the reporting limit but greater than the detection limit.
J = Analyte concentration considered an estimated value because one or more quality control specifications were not met.
M = Results is considered an estimated value due to matrix interference.

APPENDIX G

Third Quarter 2012 Analytical Data

TABLE G-1
Analytical Data Summary
Volatile Organic Compounds
Former Mather Air Force Base, Sacramento County, California
July through September 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
7-PTE	SW8260B	NS1	7/2/2012	7/6/2012	Bromomethane	0.700 J	0.100	10	µg/L	BF
			8/7/2012	8/9/2012	No Analytes Detected					
			9/4/2012	9/10/2012	1,4-Dichlorobenzene	0.100 J	0.100	0.500	µg/L	FJ
7-PTI	SW8260B	NS1	7/2/2012	7/6/2012	1,1-Dichloroethane	0.500 J	0.100	1	µg/L	F
					1,1-Dichloroethene	0.200 J	0.200	0.500	µg/L	F
					1,2-Dichloroethane	0.700	0.100	0.500	µg/L	
					1,2-Dichloropropane	0.300 J	0.100	1	µg/L	F
					Bromomethane	0.600 J	0.100	10	µg/L	BF
					cis-1,2-Dichloroethene	1.20	0.100	0.500	µg/L	
					Tetrachloroethene	1.90	0.100	0.500	µg/L	
					Trichloroethene	13	0.100	0.500	µg/L	
ACW EW-6R	SW8260B	NS1	8/30/2012	9/4/2012	Trichloroethene	3.80	0.100	0.500	µg/L	J
ACW PTE	SW8260B	NS1	7/2/2012	7/3/2012	No Analytes Detected					
			8/7/2012	8/9/2012	No Analytes Detected					
			9/4/2012	9/10/2012	No Analytes Detected					
ACW PTI	SW8260B	NS1	7/2/2012	7/3/2012	Trichloroethene	6.40	0.100	0.500	µg/L	
ACW R2	SW8260B	NS1	7/2/2012	7/3/2012	Chloroform	0.500	0.100	0.500	µg/L	
MAFB-181	SW8260B	NS1	8/29/2012	9/4/2012	Carbon Tetrachloride	3.80	0.100	0.500	µg/L	
					Chloroform	0.300 J	0.100	0.500	µg/L	BF
					Tetrachloroethene	26	0.100	0.500	µg/L	
MAFB-322	E524.2	NS1	8/30/2012	9/6/2012	Chloroform	0.150 J	0.0400	0.500	µg/L	F
MAFB-323	E524.2	NS1	8/29/2012	9/6/2012	Chloroform	0.140 J	0.0400	0.500	µg/L	F
MAFB-324	E524.2	NS1	8/30/2012	9/6/2012	Chloroform	0.350 J	0.0400	0.500	µg/L	F
					Tetrachloroethene	0.190 J	0.0500	0.200	µg/L	F
MAFB-326	E524.2	NS1	8/30/2012	9/6/2012	No Analytes Detected					

TABLE G-1
Analytical Data Summary
Volatile Organic Compounds
Former Mather Air Force Base, Sacramento County, California
July through September 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MAFB-327	E524.2	NS1	8/29/2012	9/6/2012	Carbon Tetrachloride	1.90	0.0600	0.200	µg/L	
					Chloroform	0.140 J	0.0400	0.500	µg/L	F
					P-Cymene (p-Isopropyltoluene)	0.140 J	0.0300	0.500	µg/L	F
MAFB-328	E524.2	NS1	8/30/2012	9/6/2012	Bromodichloromethane	0.0530 J	0.0200	0.500	µg/L	F
					Chloroform	0.280 J	0.0400	0.500	µg/L	F
					Tetrachloroethene	0.120 J	0.0500	0.200	µg/L	F
MAFB-337	E524.2	NS1	8/30/2012	9/6/2012	No Analytes Detected					
MAFB-338	E524.2	NS1	8/30/2012	9/6/2012	No Analytes Detected					
MAFB-349	E524.2	NS1	8/29/2012	9/6/2012	No Analytes Detected					
MAFB-378B	SW8260B	FD1	8/29/2012	9/5/2012	Chloroform	1.40	0.100	0.500	µg/L	
		NS1	8/29/2012		Chloroform	1.40	0.100	0.500	µg/L	
MAFB-378D	SW8260B	NS1	8/29/2012	9/4/2012	No Analytes Detected					
MAFB-397	SW8260B	NS1	8/29/2012	9/4/2012	No Analytes Detected					
MAFB-435	SW8260B	NS1	8/29/2012	9/4/2012	Carbon Tetrachloride	1.30	0.100	0.500	µg/L	J
					Chloroform	0.100 J	0.100	0.500	µg/L	BF
					Tetrachloroethene	7.40	0.100	0.500	µg/L	J
MAFB-460Bd	SW8260B	NS1	9/12/2012	9/17/2012	Trichloroethene	0.900	0.100	0.500	µg/L	
MAFB-460Bs	SW8260B	NS1	8/28/2012	9/4/2012	cis-1,2-Dichloroethene	0.200 J	0.100	0.500	µg/L	FJ
					Tetrachloroethene	0.300 J	0.100	0.500	µg/L	FJ
					Trichloroethene	1.80	0.100	0.500	µg/L	J
MAFB-461Bd	SW8260B	NS1	8/28/2012	9/4/2012	No Analytes Detected					
MAFB-461Bs	SW8260B	NS1	8/28/2012	9/4/2012	Trichloroethene	0.300 J	0.100	0.500	µg/L	FJ
MAFB-462	SW8260B	NS1	8/28/2012	9/4/2012	No Analytes Detected					
MAFB-463D	SW8260B	FD1	8/29/2012	9/4/2012	Chloroform	0.900	0.100	0.500	µg/L	

TABLE G-1
Analytical Data Summary
Volatile Organic Compounds
Former Mather Air Force Base, Sacramento County, California
July through September 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MAFB-463D continued . . .										
					Tetrachloroethene	12	0.100	0.500	µg/L	
					Trichloroethene	0.300 J	0.100	0.500	µg/L	F
				9/5/2012	Carbon Tetrachloride	0.400 J	0.100	0.500	µg/L	F
		NS1	8/29/2012		Carbon Tetrachloride	0.400 J	0.100	0.500	µg/L	F
					Chloroform	1	0.100	0.500	µg/L	
					Tetrachloroethene	11	0.100	0.500	µg/L	
					Trichloroethene	0.300 J	0.100	0.500	µg/L	F
MAFB-463Dd	SW8260B	NS1	8/29/2012	9/4/2012	Tetrachloroethene	0.100 J	0.100	0.500	µg/L	F
MAFB-464	SW8260B	NS1	8/28/2012	9/4/2012	Tetrachloroethene	0.100 J	0.100	0.500	µg/L	F
					Trichloroethene	1	0.100	0.500	µg/L	
MBS PTE SW	SW8260B	NS1	7/2/2012	7/6/2012	No Analytes Detected					
		FD1	8/7/2012	8/9/2012	No Analytes Detected					
		NS1	8/7/2012		No Analytes Detected					
			9/4/2012	9/10/2012	No Analytes Detected					
MBS PTI	SW8260B	NS1	7/2/2012	7/6/2012	Bromomethane	0.300 J	0.100	10	µg/L	BF
					Carbon Tetrachloride	0.800	0.100	0.500	µg/L	
					Chloroform	0.200 J	0.100	0.500	µg/L	F
					Tetrachloroethene	7.30	0.100	0.500	µg/L	
					Trichloroethene	3.20	0.100	0.500	µg/L	
MORRISON CREEK R1	SW8260B	NS1	7/2/2012	7/6/2012	Bromomethane	0.500 J	0.100	10	µg/L	BF
MORRISON CREEK R2	SW8260B	NS1	7/2/2012	7/6/2012	Bromoform	0.900 J	0.100	2	µg/L	F
					Bromomethane	0.600 J	0.100	10	µg/L	BF
OFB-04	E524.2	FD1	7/20/2012	7/24/2012	Carbon Tetrachloride	0.400	0.0600	0.200	µg/L	

TABLE G-1
Analytical Data Summary
Volatile Organic Compounds
Former Mather Air Force Base, Sacramento County, California
July through September 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
OFB-04 continued . . .										
		NS1	7/20/2012		Carbon Tetrachloride	0.350	0.0600	0.200	µg/L	
			7/25/2012	8/1/2012	No Analytes Detected					
			8/1/2012	8/2/2012	Carbon Tetrachloride	0.660	0.0600	0.200	µg/L	
					Chloroform	0.0440 J	0.0400	0.500	µg/L	F
OFB-32	E524.2	NS1	9/12/2012	9/19/2012	No Analytes Detected					
OFB-49	E524.2	NS1	9/12/2012	9/19/2012	No Analytes Detected					
OFB-51	E524.2	NS1	9/26/2012	10/4/2012	Carbon Tetrachloride	1.50	0.0600	0.200	µg/L	
OFB-51/52E	E524.2	NS1	8/31/2012	9/6/2012	No Analytes Detected					
OFB-51/52I	E524.2	NS1	7/25/2012	8/2/2012	Carbon Tetrachloride	0.780	0.0600	0.200	µg/L	
					Chloroform	0.0500 J	0.0400	0.500	µg/L	F
			8/31/2012	9/6/2012	1,1-Dichloroethane	0.0770 J	0.0200	0.500	µg/L	F
					Carbon Tetrachloride	0.340	0.0600	0.200	µg/L	
					Chloroform	0.0490 J	0.0400	0.500	µg/L	F
					cis-1,2-Dichloroethene	0.110 J	0.0200	0.500	µg/L	F
			9/26/2012	10/4/2012	Carbon Tetrachloride	1.20	0.0600	0.200	µg/L	
OFB-51/52M	E524.2	NS1	7/25/2012	8/2/2012	1,1-Dichloroethane	0.0770 J	0.0200	0.500	µg/L	F
					Chloroform	0.120 J	0.0400	0.500	µg/L	F
					cis-1,2-Dichloroethene	0.0410 J	0.0200	0.500	µg/L	F
			8/31/2012	9/6/2012	Chloroform	0.110 J	0.0400	0.500	µg/L	F
					cis-1,2-Dichloroethene	0.0980 J	0.0200	0.500	µg/L	F
			9/26/2012	10/5/2012	Chloroform	0.140 J	0.0400	0.500	µg/L	F
OFB-52	E524.2	NS1	9/26/2012	10/4/2012	Carbon Tetrachloride	1.10	0.0600	0.200	µg/L	
OFB-54	E524.2	FD1	9/12/2012	9/19/2012	Chloroform	0.280 J	0.0400	0.500	µg/L	F
		NS1	9/12/2012		Chloroform	0.250 J	0.0400	0.500	µg/L	F
OFB-55	E524.2	NS1	9/12/2012	9/19/2012	Chloroform	0.320 J	0.0400	0.500	µg/L	F

TABLE G-1
Analytical Data Summary
Volatile Organic Compounds
Former Mather Air Force Base, Sacramento County, California
July through September 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
OFB-56	E524.2	NS1	9/12/2012	9/19/2012	No Analytes Detected					
OFB-72	SW8260B	FD1	8/28/2012	9/4/2012	cis-1,2-Dichloroethene	0.200 J	0.100	0.500	µg/L	FJ
					Tetrachloroethene	0.300 J	0.100	0.500	µg/L	FJ
					Trichloroethene	1.80	0.100	0.500	µg/L	J
		NS1	8/28/2012		cis-1,2-Dichloroethene	0.100 J	0.100	0.500	µg/L	FJ
					Tetrachloroethene	0.300 J	0.100	0.500	µg/L	FJ
					Trichloroethene	1.90	0.100	0.500	µg/L	J
OFB-79	SW8260B	NS1	8/29/2012	9/4/2012	No Analytes Detected					
OFB-80	SW8260B	NS1	8/29/2012	9/5/2012	No Analytes Detected					
TRIP BLANK	SW8260B	TB1	7/2/2012	7/6/2012	Bromomethane	0.600 J	0.100	10	µg/L	BF
	E524.2	TB1	7/20/2012	7/24/2012	No Analytes Detected					
			7/25/2012	8/1/2012	No Analytes Detected					
			8/1/2012	8/2/2012	No Analytes Detected					
	SW8260B	TB1	8/7/2012	8/9/2012	Methylene Chloride	0.200 J	0.100	2	µg/L	F
			8/30/2012	9/4/2012	Chloroform	0.100 J	0.100	0.500	µg/L	F
	E524.2	TB1	8/30/2012	9/5/2012	No Analytes Detected					
			8/31/2012	9/6/2012	Methylene Chloride	0.180 J	0.150	0.500	µg/L	F
	SW8260B	TB1	9/4/2012	9/10/2012	Methylene Chloride	0.200 J	0.100	2	µg/L	F
			9/12/2012	9/17/2012	No Analytes Detected					
	E524.2	TB1	9/12/2012	9/18/2012	No Analytes Detected					
			9/26/2012	10/4/2012	No Analytes Detected					
					No Analytes Detected					

TABLE G-1
Analytical Data Summary
Volatile Organic Compounds
Former Mather Air Force Base, Sacramento County, California
July through September 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result

Sample Type
FD = Field Duplicate
NS = Normal Sample
TB = Trip Blank

Units
µg/L = micrograms/Liter

Data Flags (next to result)
J = Result is greater than or equal to the MDL and less than the QL.

Qualified Results (assigned by project chemist)
B = Result is considered not detected.
F = Result is less than the reporting limit but greater than the detection limit.
J = Result is less than the reporting limit but greater than the detection limit.

TABLE G-2
Analytical Data Summary
Metals
Former Mather Air Force Base, Sacramento County, California
July through September 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
7-PTE	SW6010B*	NS1	7/2/2012	7/3/2012	Calcium	31000	34	500	µg/L	
					Magnesium	16000	27	500	µg/L	
					Manganese	0.560 J	0.410	5	µg/L	BF
					Sodium	14000	28	500	µg/L	
					Zinc	32	2.30	20	µg/L	
7-PTI	SW6010B*	NS1	7/2/2012	7/3/2012	Calcium	30000	34	500	µg/L	
					Magnesium	15000	27	500	µg/L	
					Sodium	14000	28	500	µg/L	
					Zinc	7.30 J	2.30	20	µg/L	F
ACW PTE	SW6010B*	NS1	7/2/2012	7/6/2012	Calcium	9800	34	500	µg/L	J
					Magnesium	5100	27	500	µg/L	J
					Sodium	9800	28	500	µg/L	
					Zinc	4.40 J	2.30	20	µg/L	F
ACW PTI	SW6010B*	NS1	7/2/2012	7/6/2012	Calcium	9200	8.20	500	µg/L	J
					Magnesium	4800	16	500	µg/L	J
					Sodium	9300	22	500	µg/L	
					Zinc	6.90 J	2.30	20	µg/L	F
MBS PTE SW	SW7470A*	FD1	7/2/2012	7/5/2012	No Analytes Detected					
	SW6010B*	FD1	7/2/2012	7/6/2012	Barium	56	0.180	5	µg/L	
					Chromium	3.70 J	0.630	5	µg/L	F
					Vanadium	9.30	0.710	5	µg/L	
					Zinc	3.30 J	2.30	20	µg/L	F
	SW6020*	FD1	7/2/2012	7/10/2012	No Analytes Detected					
	SW7470A*	NS1	7/2/2012	7/5/2012	No Analytes Detected					
	SW6010B*	NS1	7/2/2012	7/6/2012	Barium	57	0.180	5	µg/L	

TABLE G-2
Analytical Data Summary
Metals
Former Mather Air Force Base, Sacramento County, California
July through September 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MBS PTE SW continued . . .										
					Chromium	3.70 J	0.630	5	µg/L	F
					Manganese	0.190 J	0.170	5	µg/L	F
					Vanadium	9.60	0.710	5	µg/L	
					Zinc	4.20 J	2.30	20	µg/L	F
	SW6020*	NS1	7/2/2012	7/10/2012	No Analytes Detected					
	SW6020	NS1	7/2/2012	7/10/2012	Selenium	0.460 J	0.260	1	µg/L	F
			8/7/2012	8/10/2012	Lead	0.900 J	0.290	1	µg/L	BF
MBS PTI	SW7470A*	NS1	7/2/2012	7/5/2012	No Analytes Detected					
	SW6010B*	NS1	7/2/2012	7/6/2012	Barium	56	0.180	5	µg/L	
					Chromium	3.80 J	0.630	5	µg/L	F
					Manganese	0.240 J	0.170	5	µg/L	F
					Vanadium	9.70	0.710	5	µg/L	
					Zinc	5.70 J	2.30	20	µg/L	F
	SW6020*	NS1	7/2/2012	7/10/2012	No Analytes Detected					
MORRISON CREEK R1	SW6020*	NS1	7/2/2012	7/10/2012	No Analytes Detected					
	SW6020	NS1	7/2/2012	7/10/2012	Selenium	0.300 J	0.260	1	µg/L	F
			8/7/2012	8/10/2012	Lead	5.10	0.290	1	µg/L	
MORRISON CREEK R2	SW6020*	NS1	7/2/2012	7/10/2012	No Analytes Detected					
	SW6020	NS1	7/2/2012	7/10/2012	Selenium	0.370 J	0.260	1	µg/L	F
			8/7/2012	8/10/2012	Lead	0.470 J	0.290	1	µg/L	BF
OUTFALL 11	SW6020	NS1	8/22/2012	8/27/2012	No Analytes Detected					

TABLE G-2
Analytical Data Summary
Metals
Former Mather Air Force Base, Sacramento County, California
July through September 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result

Sample Type
FD = Field Duplicate
NS = Normal Sample

Units
µg/L = micrograms/Liter

Data Flags (next to result)
J = Result is greater than or equal to the MDL and less than the QL.

Qualified Results (assigned by project chemist)
B = Result is considered not detected.
F = Result is less than the reporting limit but greater than the detection limit.
J = Analyte concentration considered an estimated value because one or more quality control specifications were not met.
M = Result is considered an estimated value due to matrix interference.

* = filtered in the field

TABLE G-3
Analytical Data Summary
Total Petroleum Hydrocarbons as Diesel and Gasoline
Former Mather Air Force Base, Sacramento County, California
July through September 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
7-PTE	M8015D	NS1	7/2/2012	7/6/2012	Diesel	14 J	7.70	50	µg/L	BF
	M8015V	NS1	7/2/2012	7/6/2012	Gasoline	11 J	6.70	50	µg/L	BF
7-PTI	M8015D	FD1	7/2/2012	7/6/2012	Diesel	13 J	7.70	50	µg/L	BF
	M8015V	FD1	7/2/2012	7/6/2012	Gasoline	18 J	6.70	50	µg/L	BF
		NS1	7/2/2012		Gasoline	17 J	6.70	50	µg/L	BF
	M8015D	NS1	7/2/2012	7/6/2012	No Analytes Detected					
MBS PTE SW	M8015D	NS1	7/2/2012	7/6/2012	Diesel	16 J	7.70	50	µg/L	BF
	M8015V	NS1	7/2/2012	7/6/2012	Gasoline	16 J	13	50	µg/L	BF
MBS PTI	M8015D	NS1	7/2/2012	7/6/2012	Diesel	9.30 J	7.70	50	µg/L	BF
	M8015V	NS1	7/2/2012	7/6/2012	Gasoline	19 J	13	50	µg/L	BF
OUTFALL 11	M8015D	NS1	8/22/2012	8/26/2012	Diesel	32 J	7.70	50	µg/L	F
TRIP BLANK	M8015V	TB1	7/2/2012	7/6/2012	Gasoline	19 J	13	50	µg/L	BF

Sample Type
FD = Field Duplicate
NS = Normal Sample

Units
µg/L = micrograms/Liter

Data Flags (next to result)
J = Result is greater than or equal to the MDL and less than the QL.

Qualified Results (assigned by project chemist)
B = Result is considered not detected.
F = Result is less than the reporting limit but greater than the detection limit.

TABLE G-4
Analytical Data Summary
General Chemistry
Former Mather Air Force Base, Sacramento County, California
July through September 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
7-PTE	E300.0	NS1	7/2/2012	7/2/2012	Chloride	9.50	0.0580	1	mg/L	
					Nitrite, Nitrate-Nonspecific	2.30	0.00500	0.0500	mg/L	
					Sulfate	21	0.0470	0.500	mg/L	
	E130.2	NS1	7/2/2012	7/3/2012	Total Hardness	140	3.30	3.30	mg/L	
	A2540C	NS1	7/2/2012	7/5/2012	Total Dissolved Solids	230	10	10	mg/L	J
	A2320	NS1	7/2/2012	7/6/2012	Alkalinity	130	4	4	mg/L	
					Bicarbonate	130	4	4	mg/L	
7-PTI	E300.0	NS1	7/2/2012	7/2/2012	Chloride	9.60	0.0580	1	mg/L	
					Nitrite, Nitrate-Nonspecific	2.30	0.00500	0.0500	mg/L	
					Sulfate	21	0.0470	0.500	mg/L	
	E130.2	NS1	7/2/2012	7/3/2012	Total Hardness	140	3.30	3.30	mg/L	
	A2540C	NS1	7/2/2012	7/5/2012	Total Dissolved Solids	240	10	10	mg/L	J
	A2320	NS1	7/2/2012	7/6/2012	Alkalinity	140	4	4	mg/L	
					Bicarbonate	140	4	4	mg/L	
ACW PTE	E300.0	FD1	7/2/2012	7/2/2012	Chloride	3.20	0.0120	0.200	mg/L	
					Nitrite, Nitrate-Nonspecific	2.60	0.00500	0.0500	mg/L	
					Sulfate	1.80	0.0470	0.500	mg/L	
	A2540C	FD1	7/2/2012	7/5/2012	Total Dissolved Solids	100	10	10	mg/L	J
	E130.2	FD1	7/2/2012	7/5/2012	Total Hardness	44	3.30	3.30	mg/L	
	A2320	FD1	7/2/2012	7/6/2012	Alkalinity	47	1	1	mg/L	
					Bicarbonate	47	1	1	mg/L	
	E300.0	NS1	7/2/2012	7/2/2012	Chloride	3.20	0.0120	0.200	mg/L	
					Nitrite, Nitrate-Nonspecific	2.60	0.00500	0.0500	mg/L	
					Sulfate	1.80	0.0470	0.500	mg/L	
	A2540C	NS1	7/2/2012	7/5/2012	Total Dissolved Solids	110	10	10	mg/L	J

TABLE G-4
Analytical Data Summary
General Chemistry
Former Mather Air Force Base, Sacramento County, California
July through September 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
ACW PTE continued . . .										
	E130.2	NS1	7/2/2012	7/5/2012	Total Hardness	40	3.30	3.30	mg/L	
	A2320	NS1	7/2/2012	7/6/2012	Alkalinity	48	1	1	mg/L	
					Bicarbonate	48	1	1	mg/L	
ACW PTI	E300.0	NS1	7/2/2012	7/2/2012	Chloride	3.20	0.0120	0.200	mg/L	
					Nitrite, Nitrate-Nonspecific	2.50	0.00500	0.0500	mg/L	
					Sulfate	1.80	0.0470	0.500	mg/L	
	E130.2	NS1	7/2/2012	7/5/2012	No Analytes Detected					
	A2540C	NS1	7/2/2012	7/5/2012	Total Dissolved Solids	96	10	10	mg/L	J
	A2320	NS1	7/2/2012	7/6/2012	Alkalinity	46	1	1	mg/L	
					Bicarbonate	46	1	1	mg/L	
MBS PTE SW	E160.2	FD1	7/2/2012	7/5/2012	No Analytes Detected					
	E300.0	NS1	7/2/2012	7/2/2012	Chloride	7.60	0.0120	0.200	mg/L	
					Nitrite, Nitrate-Nonspecific	3.10	0.00500	0.0500	mg/L	
					Sulfate	9.80	0.0470	0.500	mg/L	
	E160.2	NS1	7/2/2012	7/5/2012	No Analytes Detected					
	A2540C	NS1	7/2/2012	7/5/2012	Total Dissolved Solids	160	10	10	mg/L	J
	A2320	NS1	7/2/2012	7/6/2012	Alkalinity	94	4	4	mg/L	
					Bicarbonate	94	4	4	mg/L	
	E130.2	NS1	7/2/2012	7/10/2012	Total Hardness	90	3.30	3.30	mg/L	
MBS PTI	E300.0	NS1	7/2/2012	7/2/2012	Chloride	7.50	0.0120	0.200	mg/L	
					Nitrite, Nitrate-Nonspecific	3.20	0.00500	0.0500	mg/L	
					Sulfate	10	0.0470	0.500	mg/L	
	A2540C	NS1	7/2/2012	7/5/2012	Total Dissolved Solids	160	10	10	mg/L	J
	E130.2	NS1	7/2/2012	7/5/2012	Total Hardness	95	3.30	3.30	mg/L	
	A2320	NS1	7/2/2012	7/6/2012	Alkalinity	100	4	4	mg/L	

TABLE G-4
Analytical Data Summary
General Chemistry
Former Mather Air Force Base, Sacramento County, California
July through September 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MBS PTI continued . . .										
					Bicarbonate	100	4	4	mg/L	
MORRISON CREEK R1	E160.2	NS1	7/2/2012	7/5/2012	Total Suspended Solids	7	5	5	mg/L	J
	E130.2	NS1	7/2/2012	7/10/2012	Total Hardness	85	3.30	3.30	mg/L	
MORRISON CREEK R2	E160.2	NS1	7/2/2012	7/5/2012	No Analytes Detected					
	E130.2	NS1	7/2/2012	7/10/2012	Total Hardness	58	3.30	3.30	mg/L	
OUTFALL 11	A2540C	NS1	8/22/2012	8/27/2012	Total Dissolved Solids	120	10	10	mg/L	

Sample Type
FD = Field Duplicate
NS = Normal Sample

Units
mg/L = milligrams/Liter

APPENDIX H

Fourth Quarter 2012 Analytical Data

TABLE H-1
Analytical Data Summary
Volatile Organic Compounds
Former Mather Air Force Base, Sacramento County, California
October through December 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
0000BLANKS	SW8260B	TB1	11/7/2012	11/20/2012	No Analytes Detected					
			11/8/2012	11/20/2012	No Analytes Detected					
			11/27/2012	11/29/2012	No Analytes Detected					
			11/30/2012	12/4/2012	No Analytes Detected					
			12/5/2012	12/9/2012	Methylene Chloride	0.400 J	0.100	2	µg/L	BF
			12/18/2012	12/25/2012	No Analytes Detected					
7-PTE	SW8260B	NS1	10/3/2012	10/8/2012	No Analytes Detected					
			11/7/2012	11/18/2012	No Analytes Detected					
				11/19/2012	No Analytes Detected					
			12/5/2012	12/9/2012	Methylene Chloride	0.300 J	0.100	2	µg/L	BF
7-PTI	SW8260B	NS1	10/3/2012	10/8/2012	1,1-Dichloroethane	0.400 J	0.200	1	µg/L	F
					1,1-Dichloroethene	0.200 J	0.200	0.500	µg/L	F
					1,2-Dichloroethane	0.600	0.100	0.500	µg/L	
					1,2-Dichloropropane	0.300 J	0.100	1	µg/L	F
					cis-1,2-Dichloroethene	1.50	0.100	0.500	µg/L	
					Tetrachloroethene	2.90	0.100	0.500	µg/L	
					Trichloroethene	15	0.100	0.500	µg/L	
ACW EW-6R	SW8260B	NS1	11/30/2012	12/4/2012	Trichloroethene	3.40	0.100	0.500	µg/L	J
ACW PTE	SW8260B	FD1	10/3/2012	10/5/2012	No Analytes Detected					
		NS1	10/3/2012		Chloromethane	0.200 Jb	0.100	0.500	µg/L	FJ
			11/7/2012	11/20/2012	No Analytes Detected					
			12/5/2012	12/9/2012	No Analytes Detected					
ACW PTI	SW8260B	NS1	10/3/2012	10/5/2012	Trichloroethene	6.10	0.100	0.500	µg/L	J
ACW R2	SW8260B	NS1	10/3/2012	10/5/2012	Chloroform	0.200 J	0.100	0.500	µg/L	BF
MAFB-132	SW8260B	FD1	11/7/2012	11/20/2012	1,2-Dichloroethane	0.200 J	0.100	0.500	µg/L	F

TABLE H-1
Analytical Data Summary
Volatile Organic Compounds
Former Mather Air Force Base, Sacramento County, California
October through December 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MAFB-132 continued . . .										
					1,2-Dichloropropane	0.100 J	0.100	1	µg/L	F
					Chloroform	0.100 J	0.100	0.500	µg/L	F
					cis-1,2-Dichloroethene	37	0.100	0.500	µg/L	
					Tetrachloroethene	31	0.100	0.500	µg/L	
					Trichloroethene	7.50	0.100	0.500	µg/L	
		NS1	11/7/2012		1,2-Dichloroethane	0.200 J	0.100	0.500	µg/L	F
					1,2-Dichloropropane	0.100 J	0.100	1	µg/L	F
					Chloroform	0.100 J	0.100	0.500	µg/L	F
					cis-1,2-Dichloroethene	38	0.100	0.500	µg/L	
					Tetrachloroethene	33	0.100	0.500	µg/L	
					Trichloroethene	7.70	0.100	0.500	µg/L	
					Vinyl Chloride	0.100 J	0.100	0.500	µg/L	F
MAFB-181	SW8260B	FD1	11/26/2012	11/29/2012	Carbon Tetrachloride	2.90	0.100	0.500	µg/L	
					Chloroform	0.200 J	0.100	0.500	µg/L	F
					Tetrachloroethene	23	0.100	0.500	µg/L	
		NS1	11/26/2012		Carbon Tetrachloride	3	0.100	0.500	µg/L	
					Chloroform	0.200 J	0.100	0.500	µg/L	F
					Tetrachloroethene	24	0.100	0.500	µg/L	
MAFB-274	SW8260B	NS1	11/8/2012	11/20/2012	Chloroform	0.300 J	0.100	0.500	µg/L	F
					Tetrachloroethene	1	0.100	0.500	µg/L	
					Trichloroethene	0.100 J	0.100	0.500	µg/L	F
					Trichlorofluoromethane	0.200 J	0.200	1	µg/L	F
MAFB-318	SW8260B	NS1	11/8/2012	11/20/2012	Carbon Tetrachloride	6.60	0.100	0.500	µg/L	
					Chloroform	0.400 J	0.100	0.500	µg/L	F
					Tetrachloroethene	4.40	0.100	0.500	µg/L	

TABLE H-1
Analytical Data Summary
Volatile Organic Compounds
Former Mather Air Force Base, Sacramento County, California
October through December 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MAFB-322	E524.2	NS1	11/29/2012	12/3/2012	Chloroform	0.190 J	0.0400	0.500	µg/L	F
					Tetrachloroethene	0.0880 J	0.0500	0.200	µg/L	F
MAFB-323	E524.2	NS1	11/27/2012	12/3/2012	Chloroform	0.210 J	0.0400	0.500	µg/L	F
					Tetrachloroethene	0.0760 J	0.0500	0.200	µg/L	F
MAFB-324	E524.2	NS1	11/29/2012	12/3/2012	Bromodichloromethane	0.120 J	0.0200	0.500	µg/L	F
					Chloroform	0.320 J	0.0400	0.500	µg/L	F
					Tetrachloroethene	0.250	0.0500	0.200	µg/L	
MAFB-326	E524.2	NS1	11/29/2012	12/3/2012	Carbon Tetrachloride	0.190 J	0.0600	0.200	µg/L	F
					Tetrachloroethene	0.0890 J	0.0500	0.200	µg/L	F
MAFB-327	E524.2	NS1	11/27/2012	12/3/2012	Carbon Tetrachloride	1.10 M	0.0600	0.200	µg/L	M
					Chloroform	0.0970 J	0.0400	0.500	µg/L	F
					Tetrachloroethene	0.140 J	0.0500	0.200	µg/L	F
MAFB-328	E524.2	NS1	11/29/2012	12/4/2012	Bromodichloromethane	0.0630 J	0.0200	0.500	µg/L	F
					Chloroform	0.260 J	0.0400	0.500	µg/L	F
					Tetrachloroethene	0.180 J	0.0500	0.200	µg/L	F
MAFB-337	E524.2	NS1	11/29/2012	12/4/2012	No Analytes Detected					
MAFB-338	E524.2	FD1	11/29/2012	12/4/2012	No Analytes Detected					
		NS1	11/29/2012		Tetrachloroethene	0.110 J	0.0500	0.200	µg/L	F
					Vinyl Chloride	0.190 J	0.0400	0.500	µg/L	F
MAFB-349	E524.2	NS1	11/27/2012	12/4/2012	No Analytes Detected					
MAFB-377	SW8260B	NS1	12/18/2012	12/25/2012	Carbon Tetrachloride	2.20	0.100	0.500	µg/L	
					Chloroform	0.300 J	0.100	0.500	µg/L	F
					cis-1,2-Dichloroethene	0.200 J	0.100	0.500	µg/L	F
					Tetrachloroethene	2.20	0.100	0.500	µg/L	
					Trichloroethene	2.80	0.100	0.500	µg/L	

TABLE H-1
Analytical Data Summary
Volatile Organic Compounds
Former Mather Air Force Base, Sacramento County, California
October through December 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MAFB-378B	SW8260B	NS1	11/30/2012	12/5/2012	Chloroform	1	0.100	0.500	µg/L	
MAFB-378D	SW8260B	NS1	11/30/2012	12/4/2012	No Analytes Detected					
MAFB-397	SW8260B	NS1	11/30/2012	12/4/2012	No Analytes Detected					
MAFB-419	SW8260B	NS1	11/8/2012	11/20/2012	No Analytes Detected					
MAFB-435	SW8260B	NS1	11/30/2012	12/5/2012	1,4-Dichlorobenzene	0.100 J	0.100	0.500	µg/L	F
					Chloromethane	0.100 J	0.100	0.500	µg/L	F
					Tetrachloroethene	10	0.100	0.500	µg/L	
				12/6/2012	Carbon Tetrachloride	1.50	0.100	0.500	µg/L	
MAFB-460Bd	SW8260B	NS1	11/26/2012	11/30/2012	Trichloroethene	0.300 J	0.100	0.500	µg/L	F
MAFB-460Bs	SW8260B	FD1	11/26/2012	11/29/2012	cis-1,2-Dichloroethene	0.100 J	0.100	0.500	µg/L	FJ
					Tetrachloroethene	0.200 J	0.100	0.500	µg/L	F
					Trichloroethene	1.60	0.100	0.500	µg/L	
		NS1	11/26/2012		cis-1,2-Dichloroethene	0.200 J	0.100	0.500	µg/L	FJ
					Tetrachloroethene	0.200 J	0.100	0.500	µg/L	F
					Trichloroethene	1.70	0.100	0.500	µg/L	
MAFB-461Bd	SW8260B	NS1	11/26/2012	11/29/2012	No Analytes Detected					
MAFB-461Bs	SW8260B	NS1	11/26/2012	11/29/2012	Trichloroethene	0.200 J	0.100	0.500	µg/L	F
MAFB-462	SW8260B	NS1	11/26/2012	11/29/2012	No Analytes Detected					
MAFB-463D	SW8260B	NS1	11/26/2012	11/29/2012	Carbon Tetrachloride	2.70	0.100	0.500	µg/L	
					Chloroform	0.100 J	0.100	0.500	µg/L	F
					Tetrachloroethene	17	0.100	0.500	µg/L	
					Trichloroethene	0.100 J	0.100	0.500	µg/L	F
MAFB-463Dd	SW8260B	NS1	11/26/2012	11/30/2012	No Analytes Detected					
MAFB-464	SW8260B	NS1	11/26/2012	11/29/2012	Trichloroethene	1.10	0.100	0.500	µg/L	
MAFB-465	SW8260B	NS1	11/30/2012	12/5/2012	1,2-Dichloroethane	0.200 J	0.100	0.500	µg/L	F

TABLE H-1
Analytical Data Summary
Volatile Organic Compounds
Former Mather Air Force Base, Sacramento County, California
October through December 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MAFB-465 continued . . .										
					1,4-Dichlorobenzene	0.100 J	0.100	0.500	µg/L	F
					cis-1,2-Dichloroethene	28	0.100	0.500	µg/L	
					Tetrachloroethene	22	0.100	0.500	µg/L	
					Trichloroethene	5.50	0.100	0.500	µg/L	
MBS PTE SW	SW8260B	NS1	10/3/2012	10/5/2012	No Analytes Detected					
			11/7/2012	11/20/2012	No Analytes Detected					
			12/5/2012	12/9/2012	Methylene Chloride	0.400 J	0.100	2	µg/L	BF
MBS PTI	SW8260B	NS1	10/3/2012	10/5/2012	Carbon Tetrachloride	0.700	0.100	0.500	µg/L	
					Chloroform	0.300 J	0.100	0.500	µg/L	BF
					cis-1,2-Dichloroethene	0.200 J	0.100	0.500	µg/L	F
					Tetrachloroethene	8.50	0.100	0.500	µg/L	
					Trichloroethene	3.50	0.100	0.500	µg/L	
MORRISON CREEK R1	SW8260B	NS1	10/3/2012	10/5/2012	No Analytes Detected					
MORRISON CREEK R2	SW8260B	NS1	10/3/2012	10/5/2012	No Analytes Detected					
OFB-04	E524.2	NS1	10/12/2012	10/23/2012	No Analytes Detected					
			11/28/2012	12/3/2012	Carbon Tetrachloride	0.100 J	0.0600	0.200	µg/L	F
					Tetrachloroethene	0.0890 J	0.0500	0.200	µg/L	F
			12/18/2012	12/20/2012	No Analytes Detected					
OFB-04E	E524.2	NS1	10/12/2012	10/23/2012	No Analytes Detected					
			11/28/2012	12/1/2012	Chloroform	0.130 J	0.0400	0.500	µg/L	F
OFB-04M	E524.2	NS1	10/12/2012	10/23/2012	No Analytes Detected					
			11/28/2012	12/1/2012	Chloroform	0.0410 J	0.0400	0.500	µg/L	F
		FD1	12/18/2012	12/20/2012	Chloroform	0.140 J	0.0400	0.500	µg/L	F

TABLE H-1
Analytical Data Summary
Volatile Organic Compounds
Former Mather Air Force Base, Sacramento County, California
October through December 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
OFB-04M continued . . .										
		NS1	12/18/2012		Chloroform	0.160 J	0.0400	0.500	µg/L	F
OFB-27	E524.2	NS1	11/28/2012	12/4/2012	Bromodichloromethane	0.0300 J	0.0200	0.500	µg/L	F
					Chloroform	0.180 J	0.0400	0.500	µg/L	F
					Tetrachloroethene	0.0990 J	0.0500	0.200	µg/L	F
OFB-32	E524.2	NS1	11/28/2012	12/4/2012	Tetrachloroethene	0.100 J	0.0500	0.200	µg/L	F
OFB-49	E524.2	NS1	11/28/2012	12/4/2012	No Analytes Detected					
OFB-51	E524.2	NS1	11/28/2012	12/4/2012	Carbon Tetrachloride	0.590	0.0600	0.200	µg/L	
					Chloroform	0.0770 J	0.0400	0.500	µg/L	F
					cis-1,2-Dichloroethene	0.0310 J	0.0200	0.500	µg/L	F
					Tetrachloroethene	0.0620 J	0.0500	0.200	µg/L	F
OFB-51/52I	E524.2	NS1	10/24/2012	11/6/2012	No Analytes Detected					
		FD1	11/28/2012	12/1/2012	Carbon Tetrachloride	0.400	0.0600	0.200	µg/L	J
					cis-1,2-Dichloroethene	0.110 J	0.0200	0.500	µg/L	F
					Tetrachloroethene	0.130 J	0.0500	0.200	µg/L	F
		NS1	11/28/2012		Carbon Tetrachloride	0.310	0.0600	0.200	µg/L	J
					Chloroform	0.0530 J	0.0400	0.500	µg/L	F
					cis-1,2-Dichloroethene	0.110 J	0.0200	0.500	µg/L	F
					Tetrachloroethene	0.140 J	0.0500	0.200	µg/L	F
					Trichloroethene	0.0680 J	0.0300	0.200	µg/L	F
			12/18/2012	12/20/2012	Carbon Tetrachloride	0.430	0.0600	0.200	µg/L	
					Chloroform	0.0560 J	0.0400	0.500	µg/L	F
					cis-1,2-Dichloroethene	0.120 J	0.0200	0.500	µg/L	F
OFB-51/52M	E524.2	NS1	10/24/2012	11/6/2012	No Analytes Detected					
			11/28/2012	12/3/2012	1,1-Dichloroethane	0.0910 J	0.0200	0.500	µg/L	F
					Chloroform	0.120 J	0.0400	0.500	µg/L	F

TABLE H-1
Analytical Data Summary
Volatile Organic Compounds
Former Mather Air Force Base, Sacramento County, California
October through December 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
OFB-51/52M continued . . .										
					cis-1,2-Dichloroethene	0.0850 M J	0.0200	0.500	µg/L	MF
					Tetrachloroethene	0.0760 J	0.0500	0.200	µg/L	F
			12/18/2012	12/20/2012	1,1-Dichloroethane	0.110 J	0.0200	0.500	µg/L	F
					Carbon Tetrachloride	0.0850 J	0.0600	0.200	µg/L	F
					Chloroform	0.110 J	0.0400	0.500	µg/L	F
					cis-1,2-Dichloroethene	0.0890 J	0.0200	0.500	µg/L	F
OFB-52	E524.2	NS1	11/28/2012	12/4/2012	Carbon Tetrachloride	0.250	0.0600	0.200	µg/L	
					Chloroform	0.0400 J	0.0400	0.500	µg/L	F
					cis-1,2-Dichloroethene	0.210 J	0.0200	0.500	µg/L	F
					Tetrachloroethene	0.170 J	0.0500	0.200	µg/L	F
					Trichloroethene	0.110 J	0.0300	0.200	µg/L	F
OFB-54	E524.2	NS1	11/28/2012	12/4/2012	1,1-Dichloroethene	0.240 J	0.0400	0.500	µg/L	F
					Chloroform	0.560	0.0400	0.500	µg/L	
					Tetrachloroethene	0.0690 J	0.0500	0.200	µg/L	F
OFB-55	E524.2	NS1	11/28/2012	12/4/2012	Chloroform	0.140 J	0.0400	0.500	µg/L	
OFB-56	E524.2	NS1	11/28/2012	12/4/2012	No Analytes Detected					
OFB-72	SW8260B	NS1	11/26/2012	11/30/2012	cis-1,2-Dichloroethene	0.100 J	0.100	0.500	µg/L	FJ
					Tetrachloroethene	0.300 J	0.100	0.500	µg/L	FJ
					Trichloroethene	1.70	0.100	0.500	µg/L	J
OFB-79	SW8260B	NS1	11/29/2012	12/4/2012	No Analytes Detected					
OFB-80	SW8260B	NS1	11/29/2012	12/4/2012	No Analytes Detected					
TRIP BLANK	SW8260B	TB1	10/3/2012	10/5/2012	Chloroform	0.100 J	0.100	0.500	µg/L	F
					Methylene Chloride	0.100 J	0.100	2	µg/L	F
	E524.2	TB1	10/12/2012	10/23/2012	No Analytes Detected					
			10/24/2012	11/5/2012	No Analytes Detected					

TABLE H-1
Analytical Data Summary
Volatile Organic Compounds
Former Mather Air Force Base, Sacramento County, California
October through December 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
TRIP BLANK continued . . .										
			11/29/2012	11/30/2012	Methylene Chloride	0.370 J	0.150	0.500	µg/L	F
			12/18/2012	12/20/2012	No Analytes Detected					

Sample Type
FD = Field Duplicate
NS = Normal Sample
TB = Trip Blank

Units
µg/L = micrograms/Liter

Data Flags (next to result)
J = Result is greater than or equal to the MDL and less than the QL.

Qualified Results (assigned by project chemist)
B = Result is considered not detected.
F = Result is less than the reporting limit but greater than the detection limit.
J = Analyte concentration considered an estimated value because one or more quality control specifications were not met.

TABLE H-2
Analytical Data Summary
Metals and Hexavalent Chromium
Former Mather Air Force Base, Sacramento County, California
October through December 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
7-PTE	SW6010B*	FD1	10/3/2012	10/8/2012	Calcium	27000	8.20	500	µg/L	
					Magnesium	14000	16	500	µg/L	
					Manganese	0.620 J	0.170	5	µg/L	BF
					Sodium	14000	22	500	µg/L	
					Zinc	6.70 J	2.30	20	µg/L	BF
		NS1	10/3/2012	10/8/2012	Calcium	27000	8.20	500	µg/L	
					Magnesium	14000	16	500	µg/L	
					Manganese	0.390 J	0.170	5	µg/L	BF
					Sodium	14000	22	500	µg/L	
					Zinc	8.70 J	2.30	20	µg/L	BF
7-PTI	SW6010B*	NS1	10/3/2012	10/8/2012	Calcium	28000	8.20	500	µg/L	
					Magnesium	14000	16	500	µg/L	
					Manganese	2.10 J	0.170	5	µg/L	BF
					Sodium	15000	22	500	µg/L	
					Zinc	9.20 J	2.30	20	µg/L	BF
ACW PTE	SW6010B*	NS1	10/3/2012	10/8/2012	Calcium	8500	8.20	500	µg/L	
					Magnesium	4400	16	500	µg/L	
					Manganese	0.920 J	0.170	5	µg/L	BF
					Sodium	8900	22	500	µg/L	
					Zinc	7.40 J	2.30	20	µg/L	BF
ACW PTI	SW6010B*	NS1	10/3/2012	10/8/2012	Calcium	8500	8.20	500	µg/L	
					Magnesium	4400	16	500	µg/L	
					Manganese	0.680 J	0.170	5	µg/L	BF
					Sodium	8800	22	500	µg/L	
					Zinc	9.70 J	2.30	20	µg/L	BF

TABLE H-2
Analytical Data Summary
Metals and Hexavalent Chromium
Former Mather Air Force Base, Sacramento County, California
October through December 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MAFB-111	SW6010B*	FD1	11/6/2012	11/14/2012	No Analytes Detected					
		NS1	11/6/2012	11/14/2012	Nickel	2.40 J	1.20	5	µg/L	FJ
MAFB-132	SW6010B*	NS1	11/7/2012	11/14/2012	Barium	54	0.180	5	µg/L	
					Chromium	31	0.630	5	µg/L	
					Cobalt	10	0.780	5	µg/L	
					Manganese	250	0.170	5	µg/L	
					Nickel	240	1.20	5	µg/L	
					Vanadium	2.30 J	0.710	5	µg/L	F
	SW6020*	NS1	11/7/2012	11/16/2012	No Analytes Detected					
	SW7470A*	NS1	11/7/2012	11/16/2012	No Analytes Detected					
MAFB-136	SW6010B*	NS1	11/7/2012	11/14/2012	Nickel	45	1.20	5	µg/L	
MAFB-288	SW6010B*	NS1	11/9/2012	11/14/2012	No Analytes Detected					
MAFB-400	SW6010B*	NS1	11/9/2012	11/14/2012	No Analytes Detected					
MAFB-465	SW7470A*	NS1	11/30/2012	12/3/2012	No Analytes Detected					
	SW6020*	NS1	11/30/2012	12/5/2012	Arsenic	0.620 J	0.150	1	µg/L	F
					Barium	91	0.110	1	µg/L	
					Chromium	0.430 J	0.230	1	µg/L	F
					Copper	1.40 J	0.760	2.30	µg/L	BF
					Manganese	74	0.170	1	µg/L	
					Nickel	1.10	0.180	1	µg/L	
					Vanadium	3.20	0.140	1	µg/L	
					Zinc	17 J	6.50	20	µg/L	F
MBS PTE SW	SW7196A	NS1	10/3/2012	10/3/2012	No Analytes Detected					
	SW6020	NS1	10/3/2012	10/5/2012	No Analytes Detected					
	SW6010B*	NS1	10/3/2012	10/8/2012	Antimony	1.50 J	1.10	10	µg/L	BF

TABLE H-2
Analytical Data Summary
Metals and Hexavalent Chromium
Former Mather Air Force Base, Sacramento County, California
October through December 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MBS PTE SW continued . . .										
					Barium	53	0.180	5	µg/L	
					Chromium	3.50 J	0.630	5	µg/L	F
					Manganese	0.740 J	0.170	5	µg/L	BF
	SW6020*	NS1	10/3/2012	10/8/2012	No Analytes Detected					
	SW6010B*	NS1	10/3/2012	10/8/2012	Vanadium	8.60	0.710	5	µg/L	
					Zinc	6.90 J	2.30	20	µg/L	BF
	SW7470A*	NS1	10/3/2012	10/9/2012	Mercury	0.130 J	0.0360	0.200	µg/L	F
MBS PTI	SW6010B*	NS1	10/3/2012	10/8/2012	Barium	98	0.180	5	µg/L	
					Chromium	3.50 J	0.630	5	µg/L	F
					Manganese	5.50	0.170	5	µg/L	
	SW6020*	NS1	10/3/2012	10/8/2012	No Analytes Detected					
	SW6010B*	NS1	10/3/2012	10/8/2012	Vanadium	8.60	0.710	5	µg/L	
					Zinc	11 J	2.30	20	µg/L	BF
	SW7470A*	NS1	10/3/2012	10/9/2012	Mercury	0.110 J	0.0360	0.200	µg/L	F
MORRISON CREEK R1	SW6020	FD1	10/3/2012	10/5/2012	Lead	0.330 J	0.290	1	µg/L	F
	SW7196A	NS1	10/3/2012	10/3/2012	No Analytes Detected					
	SW6020	NS1	10/3/2012	10/5/2012	Lead	5.30	0.290	1	µg/L	J
	SW6020*	NS1	10/3/2012	10/5/2012	No Analytes Detected					
	SW6020	NS1	10/3/2012	10/5/2012	Selenium	0.380 J	0.260	1	µg/L	F
MORRISON CREEK R2	SW7196A	NS1	10/3/2012	10/3/2012	No Analytes Detected					
	SW6020	NS1	10/3/2012	10/5/2012	Lead	1.60	0.290	1	µg/L	
	SW6020*	NS1	10/3/2012	10/5/2012	No Analytes Detected					

TABLE H-2
Analytical Data Summary
Metals and Hexavalent Chromium
Former Mather Air Force Base, Sacramento County, California
October through December 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result

Sample Type
FD = Field Duplicate
NS = Normal Sample

Units
µg/L = micrograms/Liter

Data Flags (next to result)
J = Result is greater than or equal to the MDL and less than the QL.

Qualified Results (assigned by project chemist)
B = Result is considered not detected.
F = Result is less than the reporting limit but greater than the detection limit.
J = Analyte concentration considered an estimated value because one or more quality control specifications were not met.

* = filtered in the field

TABLE H-3
Analytical Data Summary
Total Petroleum Hydrocarbons as Diesel and Gasoline
Former Mather Air Force Base, Sacramento County, California
October through December 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
0000BLANKS	M8015V	TB1	11/8/2012	11/12/2012	Gasoline	31 J	6.20	50	µg/L	BF
7-PTE	M8015D	NS1	10/3/2012	10/5/2012	Diesel	34 J	9.80	51	µg/L	BF
	M8015V	NS1	10/3/2012	10/5/2012	No Analytes Detected					
7-PTI	M8015D	NS1	10/3/2012	10/5/2012	Diesel	16 J	9.80	51	µg/L	BF
	M8015V	NS1	10/3/2012	10/5/2012	Gasoline	15 J	11	50	µg/L	F
MAFB-274	M8015V	NS1	11/8/2012	11/12/2012	Gasoline	18 J	6.20	50	µg/L	BF
MAFB-419	M8015V	NS1	11/8/2012	11/12/2012	Gasoline	26 J	6.20	50	µg/L	BF
MBS PTE SW	M8015D	NS1	10/3/2012	10/5/2012	Diesel	38 J	9.60	50	µg/L	BF
	M8015V	NS1	10/3/2012	10/5/2012	No Analytes Detected					
MBS PTI	M8015D	NS1	10/3/2012	10/5/2012	Diesel	14 J	9.60	50	µg/L	BF
	M8015V	NS1	10/3/2012	10/5/2012	Gasoline	12 J	11	50	µg/L	F
TRIP BLANK	M8015V	TB1	10/3/2012	10/5/2012	No Analytes Detected					

Sample Type
FD = Field Duplicate
NS = Normal Sample
TB = Trip Blank

Units
µg/L = micrograms/Liter

Data Flags (next to result)
J = Result is greater than or equal to the MDL and less than the QL.

Qualified Results (assigned by project chemist)
B = Result is considered not detected.
F = Result is less than the reporting limit but greater than the detection limit.

TABLE H-4
Analytical Data Summary
General Chemistry
Former Mather Air Force Base, Sacramento County, California
October through December 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
7-PTE	E300.0	NS1	10/3/2012	10/3/2012	Chloride	9.20	0.0140	0.200	mg/L	
					Nitrite, Nitrate-Nonspecific	2.40	0.0100	0.0500	mg/L	
					Sulfate	21	0.0260	0.500	mg/L	
	A2320	NS1	10/3/2012	10/5/2012	Alkalinity	87	1	1	mg/L	
					Bicarbonate	87	1	1	mg/L	
	A2540C	NS1	10/3/2012	10/8/2012	Total Dissolved Solids	260	10	10	mg/L	
	E130.2	NS1	10/3/2012	10/8/2012	Total Hardness	130	3.30	3.30	mg/L	
7-PTI	E300.0	NS1	10/3/2012	10/3/2012	Chloride	9.30	0.0140	0.200	mg/L	
					Nitrite, Nitrate-Nonspecific	2.40	0.0100	0.0500	mg/L	
					Sulfate	21	0.0260	0.500	mg/L	
	A2320	NS1	10/3/2012	10/5/2012	Alkalinity	140	1	1	mg/L	
					Bicarbonate	140	1	1	mg/L	
	A2540C	NS1	10/3/2012	10/8/2012	Total Dissolved Solids	270	10	10	mg/L	
	E130.2	NS1	10/3/2012	10/8/2012	Total Hardness	130	3.30	3.30	mg/L	
ACW PTE	E300.0	NS1	10/3/2012	10/3/2012	Chloride	3.20	0.0140	0.200	mg/L	
					Nitrite, Nitrate-Nonspecific	2.70	0.0100	0.0500	mg/L	
					Sulfate	2	0.0260	0.500	mg/L	
	A2320	NS1	10/3/2012	10/5/2012	Alkalinity	51	1	1	mg/L	
					Bicarbonate	51	1	1	mg/L	
	A2540C	NS1	10/3/2012	10/8/2012	Total Dissolved Solids	140	10	10	mg/L	
	E130.2	NS1	10/3/2012	10/8/2012	Total Hardness	39	3.30	3.30	mg/L	
ACW PTI	E300.0	NS1	10/3/2012	10/3/2012	Chloride	3.10	0.0140	0.200	mg/L	
					Nitrite, Nitrate-Nonspecific	2.70	0.0100	0.0500	mg/L	
					Sulfate	2	0.0260	0.500	mg/L	
	A2320	NS1	10/3/2012	10/5/2012	Alkalinity	50	1	1	mg/L	

TABLE H-4
Analytical Data Summary
General Chemistry
Former Mather Air Force Base, Sacramento County, California
October through December 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
ACW PTI continued . . .										
					Bicarbonate	50	1	1	mg/L	
	A2540C	NS1	10/3/2012	10/8/2012	Total Dissolved Solids	130	10	10	mg/L	
	E130.2	NS1	10/3/2012	10/8/2012	Total Hardness	39	3.30	3.30	mg/L	
MAFB-132	E376.2	NS1	11/7/2012	11/12/2012	No Analytes Detected					
	A2320	NS1	11/7/2012	11/13/2012	Alkalinity	210	10	10	mg/L	
					Bicarbonate	210	10	10	mg/L	
	E300.0	NS1	11/7/2012	11/13/2012	Chloride	30	0.0690	1	mg/L	
					Sulfate	4.40	0.0260	0.500	mg/L	
	A2540C	NS1	11/7/2012	11/13/2012	Total Dissolved Solids	300	10	10	mg/L	
	E300.0	NS1	11/7/2012	11/14/2012	Fluoride	0.110	0.00800	0.100	mg/L	
MAFB-465	A2320	NS1	11/30/2012	12/4/2012	Alkalinity	260	6.70	6.70	mg/L	
					Bicarbonate	260	6.70	6.70	mg/L	
	E376.2	NS1	11/30/2012	12/6/2012	No Analytes Detected					
	A2540C	NS1	11/30/2012	12/6/2012	Total Dissolved Solids	360	10	10	mg/L	
	E300.0	NS1	11/30/2012	12/11/2012	Chloride	67	0.0580	1	mg/L	
					Sulfate	1.70	0.0470	0.500	mg/L	
				12/15/2012	Fluoride	0.0480 J	0.00800	0.100	mg/L	F
MBS PTE SW	E300.0	NS1	10/3/2012	10/3/2012	Chloride	7.60	0.0140	0.200	mg/L	
					Nitrite, Nitrate-Nonspecific	3.20	0.0100	0.0500	mg/L	
					Sulfate	11	0.0260	0.500	mg/L	
	A2320	NS1	10/3/2012	10/5/2012	Alkalinity	100	4	4	mg/L	
					Bicarbonate	100	4	4	mg/L	
	E130.2	NS1	10/3/2012	10/5/2012	Total Hardness	89	3.30	3.30	mg/L	
	A2540C	NS1	10/3/2012	10/8/2012	Total Dissolved Solids	210	10	10	mg/L	
	E160.2	NS1	10/3/2012	10/10/2012	No Analytes Detected					

TABLE H-4
Analytical Data Summary
General Chemistry
Former Mather Air Force Base, Sacramento County, California
October through December 2012

Well	Method	Sample Type	Date Sampled	Date Analyzed	Analyte	Result	Method Detection Limit	Reporting Limit	Units	Qualified Result
MBS PTI	E300.0	NS1	10/3/2012	10/3/2012	Chloride	7.50	0.0140	0.200	mg/L	
					Nitrite, Nitrate-Nonspecific	3.30	0.0100	0.0500	mg/L	
					Sulfate	10	0.0260	0.500	mg/L	
	A2320	NS1	10/3/2012	10/5/2012	Alkalinity	110	4	4	mg/L	
					Bicarbonate	110	4	4	mg/L	
	E130.2	NS1	10/3/2012	10/5/2012	Total Hardness	94	3.30	3.30	mg/L	
	A2540C	NS1	10/3/2012	10/8/2012	Total Dissolved Solids	200	10	10	mg/L	
MORRISON CREEK R1	E130.2	FD1	10/3/2012	10/5/2012	Total Hardness	63	3.30	3.30	mg/L	
		NS1	10/3/2012		Total Hardness	69	3.30	3.30	mg/L	
	E160.2	NS1	10/3/2012	10/10/2012	Total Suspended Solids	80	5	5	mg/L	J
MORRISON CREEK R2	E130.2	NS1	10/3/2012	10/5/2012	Total Hardness	57	3.30	3.30	mg/L	
	E160.2	NS1	10/3/2012	10/10/2012	Total Suspended Solids	6	5	5	mg/L	J

Sample Type
FD = Field Duplicate
NS = Normal Sample

Units
mg/L = milligrams/Liter

Qualified Results (assigned by project chemist)
F = Result is less than the reporting limit but greater than the detection limit.
J = Analyte concentration considered an estimated value because one or more quality control specifications were not met.

APPENDIX I

List of Dry Wells 2012

APPENDIX I

LIST OF DRY WELLS - 2012
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well ID	Study Area	Hydro-Statigraphic Zone	Reference Elevation (topc ft msl)	Screen Bottom Elevation (ft msl)	Calculated Groundwater Elevation (ft msl)				Notes
					2Q12 Groundwater Elevation	2Q12 Water Column Thickness	4Q12 Groundwater Elevation	4Q12 Water Column Thickness	
7-PZ-37	SITE 7	WT/B	75.8	-22.2	-21.65	0.55	**-22.54**	-0.34	at head of Site 7 plume, MAFB-284 has slightly overlapping screen, no need to replace
ACW PZ-06	AC&W	WT/C	121.62	-16.5					dry in 4Q07; no need to replace - no detections ever
ACW PZ-07	AC&W	WT/C	127.91	-14.5					dry in 4Q07; last sample <1/2 ACL, not needed for water levels, no need to replace
ACW PZ-08	AC&W	WT/C	123.75	-12					dry in 4Q07; last sample approx. 1/3 ACL, not needed for water levels, no need to replace
ACW PZ-09	AC&W	WT/C	126.77	-11.2					dry in 4Q07; no COC detectinos in last sample, not needed for water levels; no need to replace
ACW PZ-10	AC&W	WT/C	129.19	-8.3			-7.13	1.17	dry in 4Q07 with downward trend; historical plume extent sufficient, supplemented by MAFB-408.
MAFB-054	AC&W	WT/C	118.68	-12.72	-10.97	1.75	**-13.94**	-1.22	Historical sampling sufficient; TCE <0.3 µg/L. No need to replace
MAFB-090	MBP	WT/Bu	80.01	-11.3	-10.28	1.02	**-11.86**	-0.56	Below ACLs since 2003; no need to replace.
MAFB-092	MBP	WT/A	84.94	-9.49	-6.77	2.72			well not sampled, not necessary for water elevation
MAFB-099	MBP	WT/A	84.72	-7.29	**-7.54**	-0.25	**-7.49**	-0.2	dry in 4Q06; replaced by MAFB-421 with screen immediately below
MAFB-105	MBP	WT/A	84.47	-7.53	**-9.29**	-1.76			dry in 4Q06; replaced by MAFB-414 with screen immediately below
MAFB-108	MBP	WT/B	94.61	-1.4	-1.18	0.22	**-2.13**	-0.73	dry in 4Q07; historical sampling <ACL sufficient; no need to replace.
MAFB-110	LF03	WT/B	113.55	11.9					upgradient/cross-gradient LF-03; historical results <ACL sufficient; no need to replace
MAFB-112	LF03	WT/C	121.09	0.26	**-0.93**	**-1.19**			MAFB-399 screen 25 feet deeeper; MAFB-112 was possible downgradient well for detection monitoring if MAFB-133 or -136 has elevated metals
MAFB-121	MBP	WT/A	77.37	-14.83	-14.09	0.74	**-15.07**	-0.24	Last sampled 2Q08, downward trend just above ACL; no need to replace
MAFB-128	LF04	WT/B	122.28	-5.27	4.32	9.59	**-5.47**	-0.2	At LF-02, last sampled 4Q05; historical results ND; no need to replace
MAFB-130	LF03	WT/B	114.99	14.98	15.43	**0.45**	**14.36**	**-0.62**	West of LF-03; <ACLs since 2000; last sampled 2Q07; no need to replace
MAFB-139	LF04	WT/C	132.69	-1.96					AT LF-05; historical detections <ACLs; no need to replace
MAFB-141	LF04	WT/B	139.14	6.7	**4.38**	**-2.32**	**4.52**	**-2.18**	AT LF-05; historical detections <ACLs; no need to replace
MAFB-160	MBP	WT/A	84.89	-7.65	**-8.15**	-0.5	**-8.26**	-0.61	dry in 4Q06; replaced by both MAFB-428 and MAFB-439
MAFB-187	MBP	WT/A	86.74	-6.86	**-7.19**	-0.33	**-7.35**	-0.49	dry in 4Q06; between sites 35, 36, and Site 29/71; upgradient of watertable plumes; MAFB-419 can provide appropriate data
MAFB-188	MBP	WT/A	85.24	-8.36	**-8.94**	-0.58	**-9.4**	-1.04	dry in 4Q06; Coverage from MAFB-091 and -092; MAFB-419? (south side of Site 29/71)
MAFB-197	AC&W	WT/C	106.6	-10.88	**-11.4**	-0.52	**-11.38**	-0.5	dry in 4Q06; beyond plume capture; no longer needed
MAFB-208	MBP	WT/A	83.34	-14.6	-13.35	1.25	**-14.84**	-0.24	Had been sampled quarterly for fuels constituents as part of the 10C/68 remediation. Replaced by MAFB-417. Other nearby coverage from 209 and 037.
MAFB-209	MBP	WT/A	82.53	-13.3	-12.22	1.08	**-13.61**	-0.31	MAFB-225 screen is 23 feet below MAFB-209 screen
MAFB-212	MBP	WT/A	86.36	-11.6	-10.21	1.39	**-11.71**	-0.11	MAFB-228 screen is 25 feet below MAFB-212 screen
MAFB-257	SITE 7	PERCHED	76.26	-15.2					screened in perched zone
MAFB-278	NEP	WT/B	94.04	2					dry in 4Q07; no need to replace (downgradient NEP well)
MAFB-401	AC&W	WT/C	128.44	-9.2	-7.96	1.24	**-10.34**	-1.14	Upgradient AC&W well, no need to replace.
MAFB-403	AC&W	WT/C	132.21	-10.7	-9.39	1.31	**-11.04**	-0.34	Crossgradient AC&W well, no need to replace.
MBS 39MW01	MBP	WT/A	85.5	-9	-8.37	0.63	**-9.6**	-0.6	well not sampled, not necessary for water elevation
MBS 39MW02	MBP	WT/A	85.51	-9.49	-8.39	1.1	**-9.65**	-0.16	well not sampled, not necessary for water elevation
MBS EW-1A	MBP	WT/A	81.93	-5.27	**-5.8**	-0.53	**-10.86**	**-5.59**	Replaced by EW-7ABu

Notes:

ACL = aquifer cleanup level
ACW = Aircraft Control and Warning
4Q07 = fourth quarter of 2007
ft msl = feet above mean seal level
ID = identification
LF = landfill
MAFB = Mather Air Force Base
MBP = Main Base SAC Area Plume
ND = not detected
NEP = Northeast Plume
topc = top of porotective casing
µg/L = micrograms per liter

APPENDIX J

Technical Memorandum

Mather Well Installation: MAFB-465

TECHNICAL MEMORANDUM

TO: **AFCEC**

FROM: **Paul Graff**

COPY: **Stuart Freeman, Tim Gere**

DATE: **12 April 2013**

SUBJECT: **Mather Well Installation: MAFB-465**

This technical memorandum (tech memo) documents groundwater monitoring well installation activities and construction information relevant to new well MAFB-465 at the former Mather Air Force Base (AFB). This well was installed to evaluate whether the chromium and nickel concentrations elevated relative to the calculated background levels, detected in groundwater at landfill monitoring wells MAFB-112, MAFB-132, and MAFB-136 are the result of corrosion of the stainless steel well screen or are from another source.

The new groundwater monitoring well, with a PVC casing and screen, was installed as described in the *Revised Landfill LF-04 MAFB-465 Groundwater Monitoring Well Installation Work Plan (URS, 2012)* at a location between LF-04 and MAFB-132 (Attachment 1) in November 2012. Final construction information is summarized in the table below and provided in detail, along with borehole lithology and drilling notes, in Attachment 2.

Well Construction Summary

Well ID	MAFB-465
Installation Date	11/9/2012
Location	LF-04
Ground Surface Elevation	128.15 feet msl
Screen Depth	120-135 feet bgs
Screen Slot Size	0.010 inches
Hydrostratigraphic Unit	WT/C
Casing Diameter and Material	4-inch diameter, Schedule 40 PVC casing and screen
Approximate volume of development water	137 gallons

bgs = below ground surface

ID = identification
msl = mean sea level
PVC = polyvinyl chloride

Following installation, the well was developed to the standards presented in the workplan (URS, 2012). Attachment 3 includes well development logs. The approximate volume of water generated during the development of the well was 137 gallons.

Investigation-derived waste generated during well installation activities was containerized and disposed of as outlined in the work plan (URS, 2012). Soil cuttings were classified as non-hazardous and transported to Republic Services (formerly Forward Landfill) in Manteca, California, by ENV Environmental International, Inc. on December 12, 2012. Development water and water derived from drilling activities was added to the holding tank at Outfall #1 (on the east side of Femoyer Street, east of Grissom Avenue) to be released under Sewer Discharge Permit GRW021 once the tank approaches capacity and reported separately under that permit.

The groundwater monitoring well has been added to the groundwater monitoring program at the former Mather AFB and was initially sampled during the fourth quarter of 2012. MAFB-465 is scheduled to be sampled quarterly for VOCs and metals during 2013, per the *2013 Groundwater Monitoring Program Sampling Plan* (URS, 2013). Analytical results for this well will be reported in appropriate quarterly fact sheets and annual report(s).

REFERENCES

URS, 2012. *Revised Landfill LF-04 MAFB-465 Groundwater Monitoring Well Work Plan.* September.

URS, 2013. *2013 Groundwater Monitoring Program Sampling Plan.* February.

ATTACHMENTS

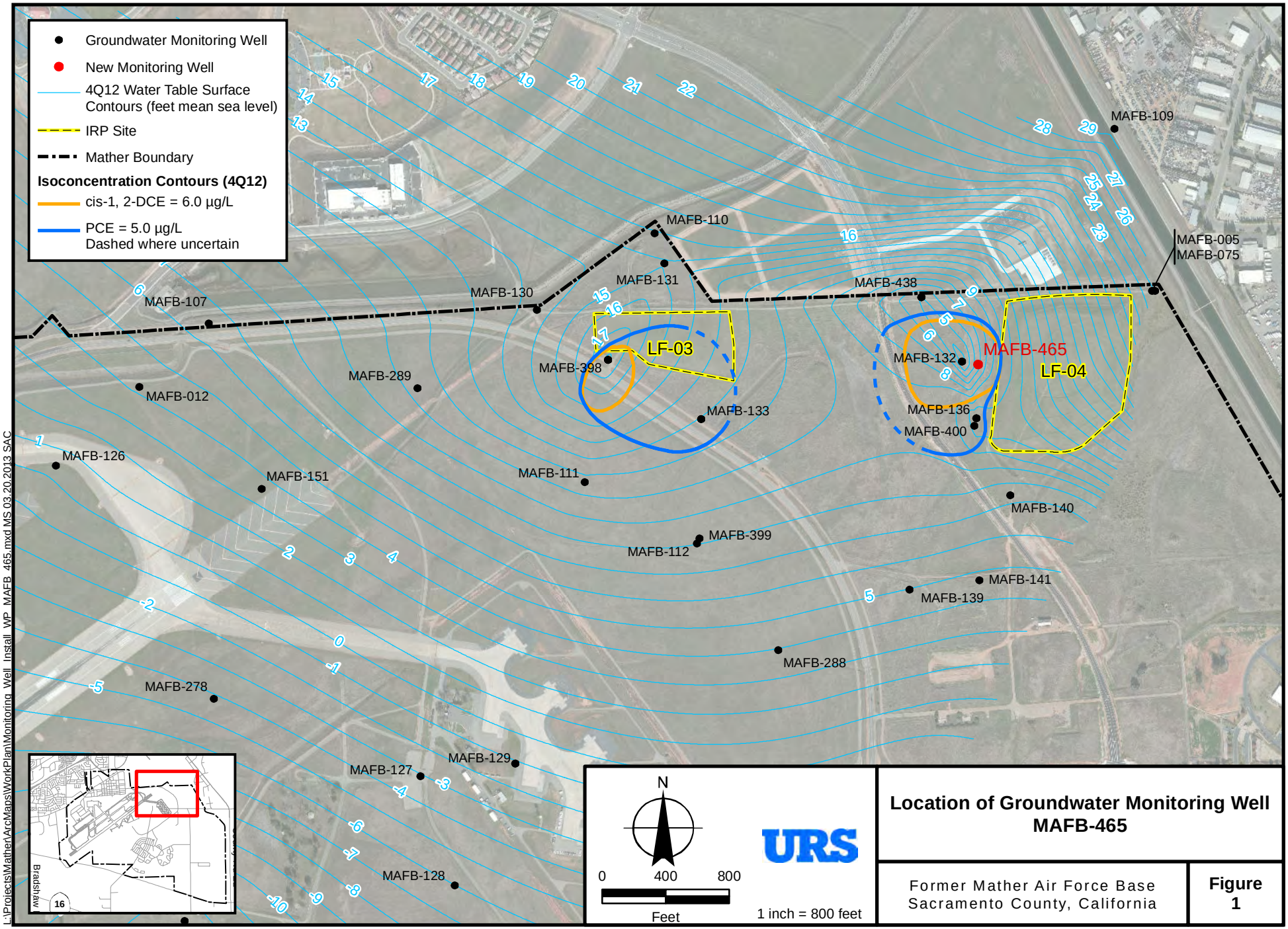
Attachment 1 – Location of New Monitoring Well MAFB-465

Attachment 2 – Boring/Well Log

Attachment 3 – Monitoring Well Development Log

ATTACHMENT 1

Location of New Monitoring Well MAFB-465


Groundwater Monitoring Well
New Monitoring Well
4Q12 Water Table Surface Contours (feet mean sea level)
IRP Site
Mather Boundary
Isoconcentration Contours (4Q12)
cis-1, 2-DCE = 6.0 µg/L
PCE = 5.0 µg/L
Dashed where uncertain
MAFB-109
MAFB-110
MAFB-131
MAFB-130
MAFB-107
MAFB-438
MAFB-005
MAFB-075
LF-03
MAFB-398
MAFB-289
MAFB-012
MAFB-133
MAFB-132
MAFB-465
LF-04
MAFB-136
MAFB-400
MAFB-126
MAFB-151
MAFB-111
MAFB-140
MAFB-399
MAFB-112
MAFB-141
MAFB-139
MAFB-288
MAFB-278
MAFB-129
MAFB-127
MAFB-128
Bradshaw
16
N
0
400
800
Feet
1 inch = 800 feet
URS
Location of Groundwater Monitoring Well MAFB-465
Former Mather Air Force Base
Sacramento County, California
Figure 1
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ATTACHMENT 2

Boring/Well Log

Project: Former Mather Air Force Base

Location: Mather, CA **Project: 18600771**

Log of Monitoring Well: MAFB-465

Drilling Contractor: Cascade	Drilled by: Steve Leslie	Borehole Name: MAFB-465	Logged By: SL/CH
Drilling Method: ARCH	Dates Drilled: 11/6-11/9/12	Well Construction: 11/9/12	Checked By: Tim Gere, P.G.
Borehole Diameter: 10-inch	Casing Diameter: 4-inch	Casing Type: Sch 40 PVC	QC Initial: C. Hutto
Total Depth Drilled: 140 feet	Screen Interval: 120-135 ft bgs	Slot Size: 0.010-inch	Ground Surface Elevation: 128.15
Sampling Method: low-flow	Top of Protective Casing Elevation: 131.01		Northing: 1969065.950 Easting: 6772016.046

Comments: Landfill 4

Depth (Vertical Feet)	Sample Interval	Hammer Count	PID (ppm) BZ	PID (ppm) Soil Core	Time (military)	Graphic Log	LITHOLOGY DESCRIPTION	WELL CONSTRUCTION
0			0.0		0730		Sandy Silt (ML), dry, brown (7.5YR 4/4), 70% silt, 30% sand, fine grained, trace mica, slow dilatancy, low plasticity	Approximate 2-foot above-ground monument with concrete pad and bollards
							Hand cleared to 5'	Cement Grout 0-113'
								Centralizers every 40'
5			0.0		1010			PVC Blank Casing 0-120'
							Trace gravels	
							Silty Sand with Gravel (SM), dry to moist, brown (7.5YR 4/4), 80% sand,15% silt, 5% gravel, subangular, fine to medium grained sand, gravels up to 0.3" diameter, nonplastic fines	
10			0.0				Silty Gravel (GM), dry, 80% gravel, 20% sand, gravels up to 1.5" diameter, subrounded to subangular, granitic, well graded	
							angular gravel from 11 to 12'	
							Gravelly Silt (ML), damp to moist, yellowish brown (10YR 5/4), 85% silt, 15% gravels, gravels up to 2" diameter, nonplastic, slow dilatancy fines, gap graded	
15			0.0					
					1050		Rig chatter 12-19'	
							Increased sand content	
					1150		Gravelly Sand with Silt (SW), moist, dark yellowish brown (10YR 4/6), 70% sand, 20% gravel, 10% silt, fine to coarse grained sand, subrounded, well graded	
20			0.0					
					1235		Silty Sand (SM), dark yellowish brown (10YR 4/6), 70% sand, 30% silt, fine to coarse grained sand, subangular	

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Sacramento, CA 95833
916-679-2000

Project: Former Mather Air Force Base

Location: Mather, CA **Project: 18600771**

Log of Monitoring Well: MAFB-465

Depth (Vertical feet)	Sample Interval	Hammer Count	PID (ppm) BZ	PID (ppm) Soil Core	Time (military)	Graphic Log	LITHOLOGY DESCRIPTION	WELL CONSTRUCTION
25			0.2		1330		Rig chatter 26-30'	
							Gravelly Silty Sand (SM), dark yellowish brown (10YR 4/6), 60% sand, 20% gravel, 20% silt, granite, quartz gravel	
							Silty gravel 29-30'	
30			0.0					
					1325		Silt with Sand (ML), moist, yellowish brown (10YR 5/4), 90% silt, 10% sand, low plasticity, rapid dilatancy	
35			0.0		1320			
							Clay (CL), moist, yellowish brown (10YR 5/4), medium plasticity, no dilatancy, some silt, trace fine grained sand	
							Sandy Silt/Silty Sand (SM-ML), moist, yellowish brown (10YR 5/4), 60% sand, 40% silt, fine grained sand, low plasticity silt	
40			0.0		1400			
							Increased sand content, decreased silt content	
							Silty Sand with Gravel (SM), moist, brown (10YR 5/3), 70% sand, 20% silt, 10% gravel, fine to coarse grained sand, 60% quartz, 25% feldspar, 10% mafics, 5% mica, gravels up to 2" diameter	
45			0.0		1420			
							Clay (CL), moist, yellowish brown (10YR 5/4), 90% clay, 10% sand, medium plasticity	
50								
							Sandy Gravel (GW), dry to moist, 70% gravel, 30% sand, gravels up to 1" diameter, subrounded, well graded.	

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Project: Former Mather Air Force Base

Location: Mather, CA **Project: 18600771**

Log of Monitoring Well: MAFB-465

Depth (Vertical feet)	Sample Interval	Hammer Count	PID (ppm) BZ	PID (ppm) Soil Core	Time (military)	Graphic Log	LITHOLOGY DESCRIPTION	WELL CONSTRUCTION
							Rig chatter	
55					1445			
60					1450		Gravel size reduced to 0.5-0.75" diameter	
							Decreased gravel content to 60%, increased sand content to 40%	
65							Silty Gravel (GM), dry to moist, loose, 70% gravel, 30% silt, gravels up to 0.5" diameter, angular to subangular, round and elongated gravels, quartz, serpentinite, granite	
							Sandy Silt with Gravel (ML), moist, dark yellowish brown (10YR 4/4), 60% silt, 20% sand, 10% gravels, fine to medium grained sand, low plasticity, rapid dilatancy, gravels up to 0.5"	
70								
					1520		Driller added water to flush out cuttings from hose to cyclone. Fines washed out from 71 to 75'. Gravels up to 2" diameter.	
75							Sandy Gravel (GW), loose, 70% gravels, 30% sand, gravels up to 1.25" diameter, subrounded to angular, medium to coarse grained sand, trace fines, quartz, granite, serpentinite	
					1540			
							Driller added water to flush out hose, fines washed out 78-81'	
80					1555			
							Gravel decreased in size to 0.5", chert, increased sand content	
							Gravelly Sand (SW), loose, 60% sand, 20% gravels, 10% fines, fine to coarse grained sand, subrounded to angular, gravels up to 1" diameter, quartz, serpentinite, granite, chert	

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Project: Former Mather Air Force Base

Location: Mather, CA **Project: 18600771**

Log of Monitoring Well: MAFB-465

Depth (Vertical feet)	Sample Interval	Hammer Count	PID (ppm) BZ	PID (ppm) Soil Core	Time (military)	Graphic Log	LITHOLOGY DESCRIPTION	WELL CONSTRUCTION
85								
90					1620			
							Sandy Gravel (GW), loose, 70% gravel, 30% sand, gravels up to 1" diameter, subangular, fine to coarse grained sand, well graded, trace silt.	
95					1635			
100								
105							Stop drilling 11/8/12. Start drilling 11/9/12. Gravel up to 2" diameter	
110								
							Sandy Silt with gravel (ML), soft, wet, yellowish brown, 70% silt, 20% sand, 10% gravels, nonplastic fines, gravels up to 1" diameter	

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Project: Former Mather Air Force Base

Location: Mather, CA **Project: 18600771**

Log of Monitoring Well: MAFB-465

Depth (Vertical feet)	Sample Interval	Hammer Count	PID (ppm) BZ	PID (ppm) Soil Core	Time (military)	Graphic Log	LITHOLOGY DESCRIPTION	WELL CONSTRUCTION
115								Bentonite Seal 113-116'
								Sand Bridge #60 116-118'
							Clayey Silt (ML), soft, wet, yellowish brown, low plasticity, trace sand	Filter Pack #2/12 118-138'
120								
125								PVC Screen 0.010" 4-inch diameter 120-135'
130							Silt (ML), saturated, yellowish brown, minor fine grained sand and gravel, subrounded, partially indurated, nonplastic	
							Sandy Silt with Gravel (ML), yellowish brown, partially indurated	
							Increasing gravel up to 1" diameter, subrounded	
135								end cap Well Depth 135.5'
							Silty Sand with Gravel (SM), dark yellowish brown, 60% sand and gravel, 40% cemented, nonplastic fines, partially indurated	
								Borehole Depth 140'
140								

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ATTACHMENT 3

Monitoring Well Development Log

Well Development Log

Installation: Mather AFB

Project: 18600771.36003

Well #: MAFB-465

Reported By: A. McGinnis

Screen Type/Interval: Sch 40 PVC, 120-135'

Screen Diameter/Slot Size: 4 inch, 0.010"

Static Water Level Prior to Development: 132.47' (TOC)

Development Started: 11/13/12 0800

Development Ended: 11/13/12 1409

TD = 138.8' bgs (TOC)

Quantity of Water Discharged During Development: 137 gallons

Equipment/Tools Used: Sneal rig

Time	Development Method	Temp °C	pH	Conductivity mS/cm	Turbidity	Comments
0838	swab					
0902	pull swab					
0909	Drop bailer					Muddy / fines & sands
0944	pull bailer					bailed ~ 32.5 gallons
0950	swab					
1002	pull swab					WL = 132.42' bgs
1008	Drop bailer					muddy / sandy
1038	pull bailer					little fines / < 1 tsp / bailer
1050	drop bailer					↳ ~ 55 gallons
1118	bail	22.02	7.03	0.680	782	turbid / cloudy
1155	bail (continued)	22.68	7.29	0.566	283	< 1 tsp. per bail WL = 134.05
—	bailed a total of ~ 110 gallons —					
—	set pump @ 137.8' bgs (TOC) —					
1313	pump					
1318	↓	22.43	7.40	0.568	183	slightly cloudy
1324		22.66	7.35	0.571	75	clear
1327		22.75	7.29	0.562	45	" "

Data-Management\forms\basic\well-development-log-2001.cdr LCT 7.02.03 SAC 1

Well Development Log (Continued)

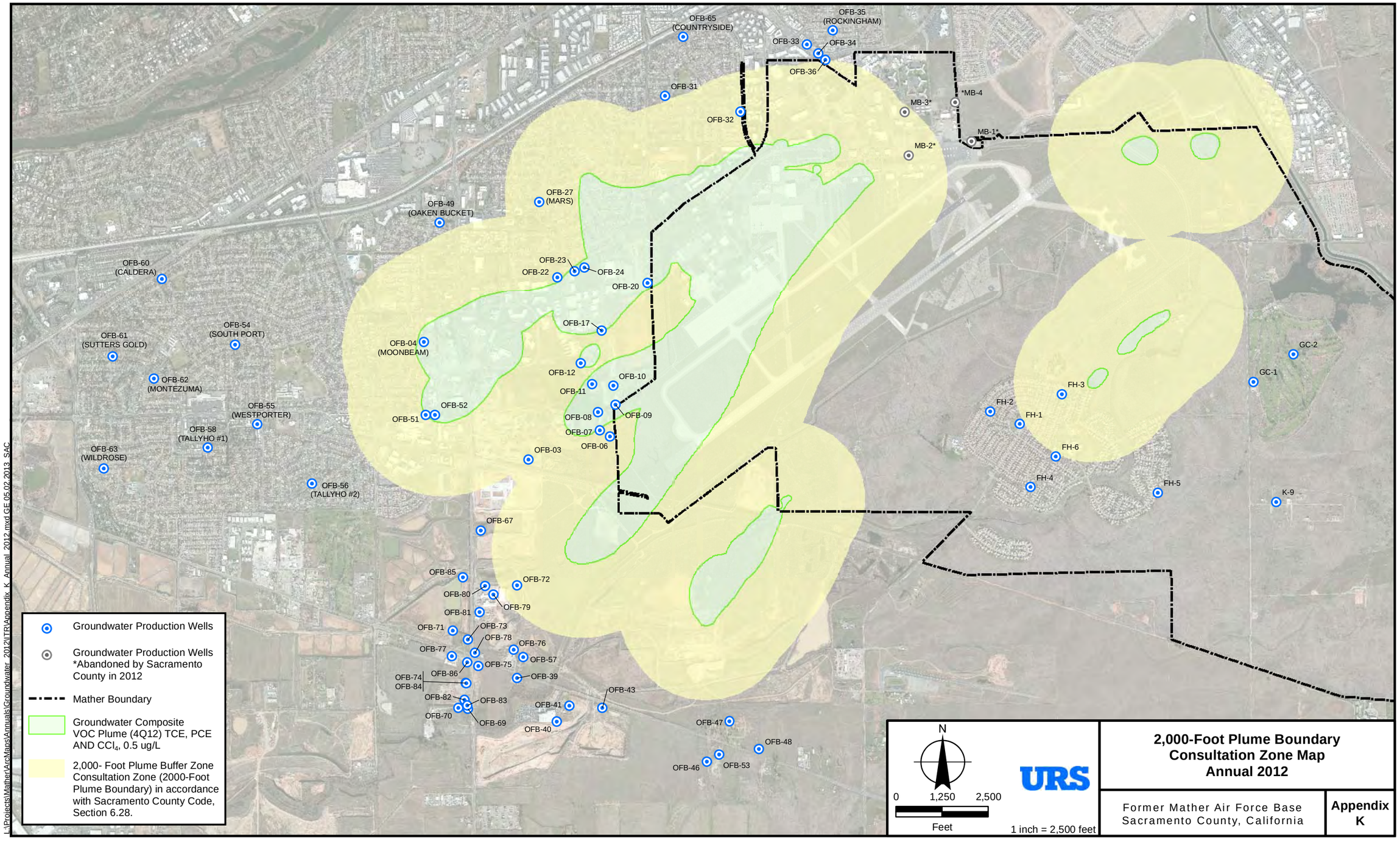
Installation: Mather AFB Project: 18600771.36003

Well #: MAFB-465

Time	Development Method	Temp °C	pH	Conductivity	Turbidity	Comments
1330	pump	22.89	7.17	0.554	41	clear
1333		22.56	7.11	0.557	35.5	" "
1336		22.56	7.23	0.564	27.3	" "
1339		23.00	7.19	0.553	24.1	" " WL=133.78
1342		23.26	7.11	0.555	23.4	" "
1345		23.37	7.07	0.554	20.3	" "
1350		23.13	7.22	0.553	16.7	" "
1353		23.17	7.11	0.548	15.5	" "
1356		23.22	7.15	0.546	12.0	" "
1359		23.23	7.16	0.547	10.0	" "
1402		23.18	7.14	0.549	9.8	" "
1405		22.96	7.11	0.549	8.8	" "
1408	pump complete					

APPENDIX K

2000-Foot Plume Boundary Consultation Zone Map
Annual 2012



2,000-Foot Plume Boundary Consultation Zone Map Annual 2012

Former Mather Air Force Base
Sacramento County, California

Appendix K

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