	A	B	C	D	E	F
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13		column 1				
14		Rf	CF		CF	
15		level 1		level 2		level 3
16	dcb	129641	12964100	258733	12936650	512528
17	tcx	90628	18125600	185943	18594300	375739
18	a-BHC	124185	24837000	273671	27367100	546724
19	aldrin	104978	20995600	227885	22788500	451702
20	endrin	104678	10467800	226809	11340450	433310
21						
22		column 2				
23		level 1		level 2		level 3
24	dcb	87053	8705300	172642	8632100	344504
25	tcx	62889	12577800	128572	12857200	261828
26	a-BHC	84888	16977600	188847	18884700	382909
27	aldrin	71264	14252800	150673	15067300	301174
28	endrin	76706	7670600	167683	8384150	330164
29						
30	CCV					
31	column I	area	CF	%D	Column II	area
32	dcb	517071	12926775	2.38757007	dcb	359800
33	tcx	382223	19111150	3.05548403	tcx	271502
34	a-BHC	550998	27549900	1.68944429	a-BHC	396799
35	aldrin	457107	22855350	1.91583678	aldrin	312750
36	endrin	431238	10780950	3.20152606	endrin	344632
37						
38						
39		column 1				
40		Rf	CF		CF	
41	Aroclor	level 1		level 2		level 3
42	TCMX	369.2	73840	667.1	66710	1179.2
43	DCB	579.3	57930	859.9	42995	1556.5
44	1016-1	154.7	1547	274.7	1373.5	470.5
45	1016-2	89.99	899.9	165.4	827	281.6
46	1016-3	177.3	1773	303	1515	490.2
47						

	A	B	C	D	E	F
48		column 2				
49	Aroclor	level 1		level 2		level 3
50	TCMX	444.8	88960	845.3	84530	1743.1
51	DCB	733.6	73360	1328.3	66415	2736.2
52	1016-1	183.7	1837	319.4	1597	690.9
53	1016-2	167.1	1671	306.6	1533	589.5
54	1016-3	208	2080	384.6	1923	858.4
55						
56	CCV					
57	column I	area	CF	%D	Column II	area
58	tcmx	1444.1	72205	12.5823942	tcmx	1781.6
59	DCB	2012.7	50317.5	15.8972144	DCB	2617.3
60	1016-1	534.7	1336.75	4.74660607	1016-1	740.1
61	1016-2	326.1	815.25	6.68647068	1016-2	614.2
62	1016-3	594.3	1485.75	8.17156742	1016-3	909.2
63						
64		column 1				
65		Rf	CF		CF	
66	Aroclor	level 1		level 2		level 3
67	TCMX		0		0	
68	DCB		0		0	
69	1260-1	383.1	3831	636.1	3180.5	1084.6
70	1260-2	535.5	5355	870.1	4350.5	1504.3
71	1260-3	354.7	3547	571.7	2858.5	1054.9
72						
73		column 2				
74	Aroclor	level 1		level 2		level 3
75	TCMX		0		0	
76	DCB		0		0	
77	1260-1	458.8	4588	847.9	4239.5	1681.1
78	1260-2	575.6	5756	1072.7	5363.5	2127.8
79	1260-3	460.9	4609	849.6	4248	1689.2
80						
81	CCV					
82	column I	area	CF	%D	Column II	area
83	tcmx		0	#DIV/0!	tcmx	
84	DCB		0	#DIV/0!	DCB	
85	1260-1	1374.3	3435.75	15.2573645	1260-1	1676.9
86	1260-2	1943.9	4859.75	16.7521532	1260-2	2099.3
87	1260-3	1249.4	3123.5	12.1302412	1260-3	1664.5
88						
89						
90	AQUEOUS					
91			Column I			
92				mean CF	area	concentration
93			peak 1	1276.175	153.8	1.205163869
94			peak 2	764.155	87.14	1.140344564

	A	B	C	D	E	F
95			peak 3	1373.5125	157.6	1.147423121
96			Column 2			
97				mean CF	area	concentration
98			peak 1	1666.5375	154.8	0.928871988
99			peak 2	1438.8375	124.4	0.864586863
100			peak 3	1996.6375	229.6	1.149933325
101						
102			Column I			
103				mean CF	area	concentration
104			peak 1	2980.9375	346.7	1.163056924
105			peak 2	4162.45	487.4	1.170944996
106			peak 3	2785.6	313.4	1.125071798
107			Column 2			
108				mean CF	area	concentration
109			peak 1	4129.1625	434.3	1.051787136
110			peak 2	5223.0125	554.2	1.061073471
111			peak 3	4174.1	437.3	1.047650991
112						
113						
114						
115						
116			Column I			
117				mean CF	area	concentration
118			peak 1	36534	14027	955.0838897
119			peak 2	68159	26317	960.477327
120			peak 3	44026	19447	1098.796663
121			peak 4	35436	27866	1956.157804
122			peak 5	91075	41721	1139.539743
123			Column 2			
124				mean CF	area	concentration
125			peak 1	22317	11071	1234.027916
126			peak 2	37012	13420	901.9530038
127			peak 3	29742	14112	1180.299832

	A	B	C	D	E	F
128			peak 4	23381	10086	1073.074387
129			peak 5	65628	24323	921.9384276
130						
131						
132						
133						
134						
135						
136	DRO					
137		Rf	CF		CF	
138		level 1		level 2		level 3
139	O-TERPHENYL	104619	2092.38	437611	1750.444	913748
140	DRO	1315518	2631.036	6305903	2522.3612	12153014
141						
142						
143	CCV					
144	column I	area	CF	%D		area
145	O-TERP	762178	1524.356	-18.03573		874951
146	DRO	11078478	2215.6956	-10.715549		18095399
147						
148						
149						
150						
151						
152	SOIL					
153			Column I			
154				mean CF	area	concentration
155			peak 1	1276.175	122.4	31.97053696
156			peak 2	764.155	75.28	32.83801498
157			peak 3	1373.5125	113.5	27.54495014
158			Column 2			
159				mean CF	area	concentration
160			peak 1	1666.5375	140.7	28.14218102
161			peak 2	1438.8375	133.6	30.95091234
162			peak 3	1996.6375	219	36.56146897
163						
164						
165			Column I			
166				mean CF	area	concentration
167			peak 1	1276.175	768.9	313.0311497

	A	B	C	D	E	F
168			peak 2	764.155	412.4	280.3916818
169			peak 3	1373.5125	683.5	258.5436233
170			Column 2			
171				mean CF	area	concentration
172			peak 1	1666.5375	810.5	252.6770843
173			peak 2	1438.8375	486.4	175.6344666
174			peak 3	1996.6375	987.1	256.8560836
175						
176			Column I			
177				mean CF	area	concentration
178			peak 1	1276.175	695	288.6042165
179			peak 2	764.155	371.8	257.8434041
180			peak 3	1373.5125	630.4	243.2269468
181			Column 2			
182				mean CF	area	concentration
183			peak 1	1666.5375	952.1	302.7579629
184			peak 2	1438.8375	531.8	195.8685393
185			peak 3	1996.6375	1073.4	284.8986998
186						
187						
188	SOIL					
189			Column I			
190				mean CF	area	concentration
191			peak 1	2980.9375	387.5	43.33088723
192			peak 2	4162.45	522.3	41.82632824
193			peak 3	2785.6	329.2	39.39306912
194			Column 2			
195				mean CF	area	concentration
196			peak 1	4129.1625	415.2	33.51769275
197			peak 2	5223.0125	530.5	33.85657862
198			peak 3	4174.1	408.6	32.62978846
199						
200						
201			Column I			
202				mean CF	area	concentration

	A	B	C	D	E	F
203			peak 1	2980.9375	1637.1	285.3318591
204			peak 2	4162.45	2287.9	285.5722062
205			peak 3	2785.6	1367.6	255.075218
206			Column 2			
207				mean CF	area	concentration
208			peak 1	4129.1625	1823	229.3784545
209			peak 2	5223.0125	3682.6	366.3206589
210			peak 3	4174.1	1800.8	224.1457769
211						
212			Column I			
213				mean CF	area	concentration
214			peak 1	2980.9375	1481.7	263.4119724
215			peak 2	4162.45	2064.7	262.8669753
216			peak 3	2785.6	1220.3	232.1538858
217			Column 2			
218				mean CF	area	concentration
219			peak 1	4129.1625	2034.6	261.1230233
220			peak 2	5223.0125	4121.4	418.1689684
221			peak 3	4174.1	1996.1	253.4238854
222						
223						
224						
225						
226						
227						
228						
229						
230						
231						
232						
233						
234		Rf	CF		CF	
235		level 1		level 2		level 3
236	methane	17821	178210000	3160880	158044000	15820238
237	hydrogen	798865	79886500	44548044	111370110	213335386
238						
239						
240						
241						
242						
243						

	A	B	C	D	E	F
244						LCS
245					x	EG
246					area x	4568682
247					CF	481672.3088
248					DF	2
249					volume conc extract	1
250					GPC	1
251					volume injected	1
252					weight of sample	1
253					D	1
254					concentration	18.97008367
255						
256						
257						
258						
259						
260						
261						
262		**Rf**	**CF**		**CF**	
263		**level 1**		**level 2**		**level 3**
264	**EG**	**4592495**	**459249.5**	**9973849**	**498692.45**	**20558557**
265						

	G	H	I	J	K	L	M
1		c0030	soil				
2		x	dde	dieldrin	ddt	tcx	dcb
3		area x	501449940	436.6	1482.3	1439.3	1009.9
4		CF	2481	24201.5	16992.5	235478.3	15998
5		DF	1	1	1	1	1
6		volume conc extract	5000	5000	5000	5000	5000
7		GPC	1	2	2	2	2
8		volume injected	5000	1	1	1	1
9		weight of sample	0.21	1	1	1	1
10		D	0.674	1	1	1	1
11		concentration	1427978.367	180.4020412	872.3260262	61.12240491	631.266408
12							
13							
14	CF		CF		CF		
15		level 4		level 5		mean CF	SD
16	12813200	994066	12425825	1917905	11986906.25	12625336.25	416643.589
17	18786950	748798	18719950	1479666	18495825	18544525	259755.273
18	27336200	1124406	28110150	2224841	27810512.5	27092192.5	1301271.31
19	22585100	923037	23075925	1814674	22683425	22425710	820279.363
20	10832750	821963	10274537.5	1490716	9316975	10446502.5	750697.539
21							
22							
23		level 4		level 5			
24	8612600	678913	8486412.5	1363149	8519681.25	8591218.75	88381.1773
25	13091400	527704	13192600	1070045	13375562.5	13018912.5	309577.203
26	19145450	808247	20206175	1660562	20757025	19194190	1455850.07
27	15058700	632442	15811050	1298266	16228325	15283635	763318.931
28	8254100	679147	8489337.5	1348596	8428725	8245382.5	332729.564
29							
30							
31	CF	%D					
32	8995000	4.699929798					
33	13575100	4.272150228					
34	19839950	3.3643514					
35	15637500	2.315319621					
36	8615800	4.492423487					
37							
38							
39							
40	CF		CF		CF		
41		level 4		level 5		mean CF	SD
42	58960	2507.2	62680	4678.9	58486.25	64135.25	6356.56504
43	38912.5	3087.8	38597.5	6182.9	38643.125	43415.625	8323.3591
44	1176.25	962.3	1202.875	1730	1081.25	1276.175	184.507444
45	704	584.3	730.375	1055.2	659.5	764.155	97.5814794
46	1225.5	1008.7	1260.875	1749.1	1093.1875	1373.5125	270.548511
47							

	G	H	I	J	K	L	M
48							
49		level 4		level 5			
50	87155	3411.4	85285	6660.8	83260	85838	2244.11063
51	68405	5344	66800	10426.5	65165.625	68029.125	3196.68932
52	1727.25	1271	1588.75	2532.3	1582.6875	1666.5375	112.539608
53	1473.75	1078.7	1348.375	1868.9	1168.0625	1438.8375	190.714086
54	2146	1541	1926.25	3052.7	1907.9375	1996.6375	108.975954
55							
56							
57	CF	%D					
58	89080	3.776882034					
59	65432.5	-3.816931351					
60	1850.25	11.02360433					
61	1535.5	6.718097075					
62	2273	13.84139585					
63							
64							
65	CF		CF		CF		
66		level 4		level 5		mean CF	SD
67	0		0		0	0	0
68	0		0		0	0	0
69	2711.5	2160.9	2701.125	3968.9	2480.5625	2980.9375	539.374218
70	3760.75	3032.8	3791	5688	3555	4162.45	729.018484
71	2637.25	2078.1	2597.625	3660.2	2287.625	2785.6	471.795982
72							
73							
74		level 4		level 5			
75	0		0		0	0	0
76	0		0		0	0	0
77	4202.75	3176.6	3970.75	5831.7	3644.8125	4129.1625	349.21726
78	5319.5	3970.1	4962.625	7541.5	4713.4375	5223.0125	400.184514
79	4223	3220.8	4026	6023.2	3764.5	4174.1	310.924509
80							
81							
82	CF	%D					
83	0	#DIV/0!					
84	0	#DIV/0!					
85	4192.25	1.527852198					
86	5248.25	0.483198154					
87	4161.25	-0.307850794					
88							
89							
90							
91	mean	% difference					
92							
93							
94							

	G	H	I	J	K	L	M
95	**1.164310518**	**-15.73289856**					
96	**0.981130725**						
97							
98							
99							
100							
101							
102	**mean**	**% difference**					
103							
104				sample	ms	msd	**rpd**
105				**0.88**	**14**	**15**	**7.34214391**
106	**1.153024573**	**-8.631273731**		**0**	**14**	**15**	**6.89655172**
107	**1.053503866**			0.059	**14**	15	**6.9247282**
108				2.9	47	50	**6.57894737**
109				1	36	39	**8.21917808**
110				8.4	90	98	**9.34579439**
111				0	0	1.2	**200**
112				0	0	33	**200**
113				0	0	24	**200**
114							
115							
116	**mean**	**% difference**					
117						[high]	1200
118						[low]	1100
119						%D	9.09090909
120		**-13.07290696**					
121				non spike stuff			
122	**1222.011085**			sample	ms	msd	rpd
123	**1062.258713**			36	4.24	4.32	1.86915888
124			0	0.18	0.18	0.18	0
125							
126							
127							

	G	H	I	J	K	L	M
128							
129							
130							
131							
132							
133							
134							
135							
136							
137	**CF**		**CF**		**CF**		
138		**level 4**		**level 5**		**mean CF**	**SD**
139	**1827.496**	**1882231**	**1882.231**	**3492709**	**1746.3545**	**1859.7811**	**141.835088**
140	**2430.6028**	**24756313**	**2475.6313**	**46968793**	**2348.43965**	**2481.61419**	**105.309794**
141							
142							
143							
144	**concentration**						
145	94.09182618						
146	1458.357151						
147							
148							
149							
150							
151							
152							
153	**mean**	**% difference**					
154							
155							
156							
157	**30.78450069**	**3.574374745**					
158	**31.88485411**						
159							
160							
161							
162							
163							
164							
165	**mean**	**% difference**					
166							
167							

	G	H	I	J	K	L	M
168							
169	**283.9888183**	**-19.57809716**					
170	**228.3892115**						
171							
172							
173							
174							
175							
176	**mean**	**% difference**					
177							
178							
179							
180	**263.2248558**	**-0.778721453**					
181	**261.1750674**						
182							
183							
184							
185							
186							
187							
188							
189	**mean**	**% difference**					
190							
191							
192							
193	**41.51676153**	**-19.70788332**					
194	**33.33468661**						
195							
196							
197							
198							
199							
200							
201	**mean**	**% difference**					
202							

	G	H	I	J	K	L	M
203							
204							
205	275.3264277	-0.742681218					
206	273.2816301						
207							
208							
209							
210							
211							
212	mean	% difference					
213							
214							
215							
216	252.8109445	22.97936428					
217	310.9052924						
218							
219							
220							
221							
222							
223							
224							
225							
226							
227							
228							
229							
230							
231							
232							
233							
234	CF		CF		CF		CF
235		level 4		level 5		level 6	
236	156636019.8	158444129	156875375.2	383764277	151985852.3	1541067943	152580984
237	106667693	1021140153	102114015.3	2442487721	97699508.84		
238							
239							
240							
241							
242							
243							

	G	H	I	J	K	L	M
244	MS	MSD					
245	EG	EG					
246	4856735	4869708					
247	481672.3088	481672.3088					
248	2	2					
249	1	1					
250	1	1					
251	1	1					
252	1	1					
253	1	1					
254	20.16613748	20.22000398					
255							
256							
257							
258							
259							
260							
261							
262	**CF**		**CF**				
263		**level 4**		**mean CF**	**SD**	**%RSD**	
264	**513963.925**	**22739168**	**454783.36**	**481672.3088**	**29201.77852**	**6.062581964**	
265							

	N	O	P	Q	R	S	T
1							
2	dde	diendrin	ddt	tcx	dcb		
3	330	489.8	921.1	893.8	691.6		
4	10670	12732.2	10486.3	11556.4	9702.7		
5	1	1	1	1	1		
6	5000	5000	5000	5000	5000		
7	2	2	2	2	2		
8	1	1	1	1	1		
9	1	1	1	1	1		
10	1	1	1	1	1		
11	309.2783505	384.6939256	878.3841775	773.42425	712.7912849		
12							
13							
14							
15	**%RSD**						
16	**3.300059348**						
17	**1.400711385**	ms	msd	%rpd			
18	**4.803122933**	28	30	6.8965517			
19	**3.657763181**						
20	**7.186113623**						
21							
22							
23							
24	**1.028738528**						
25	**2.377903706**						
26	**7.584847676**						
27	**4.994354622**						
28	**4.035344192**						
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41	**%RSD**						
42	**9.911187742**						
43	**19.17134464**						
44	**14.45784818**						
45	**12.76985421**						
46	**19.69756454**						
47							

	N	O	P	Q	R	S	T
48							
49							
50	**2.614355677**						
51	**4.699001075**						
52	**6.752899806**						
53	**13.25473417**						
54	**5.457973929**						
55							
56							
57							
58							
59							
60							
61							
62							
63							
64							
65							
66	**%RSD**						
67	**#DIV/0!**						
68	**#DIV/0!**						
69	**18.09411361**						
70	**17.51416795**						
71	**16.93696086**						
72							
73							
74							
75	**#DIV/0!**						
76	**#DIV/0!**						
77	**8.457338741**						
78	**7.661948236**						
79	**7.448899368**						
80							
81							
82							
83							
84							
85							
86							
87							
88							
89							
90							
91							
92							
93							
94							

	N	O	P	Q	R	S	T
95							
96							
97							
98							
99							
100							
101							
102							
103							
104	mean	SD	%RSD	ms %R	msd%R	MS spike added	MSD spike added
105	**9.96**	**7.879390839**	**79.11034979**	**0.656**	**0.706**	**20**	**20**
106	**9.666666667**	**8.386497084**	**86.75686638**	**0.7**	**0.75**	**20**	**20**
107	9.686333333	8.352494258	86.22968022	0.69705	0.74705	**20**	**20**
108	33.3	26.36986917	79.1887963	1.1307692	1.207692308	**39**	**39**
109	25.33333333	21.1266025	83.39448357	0.8974359	0.974358974	**39**	**39**
110	65.46666667	49.58279271	75.73746341	2.0923077	2.297435897	**39**	**39**
111	0.4	0.692820323	173.2050808	0	0.705882353	**1.7**	**1.7**
112	11	19.05255888	173.2050808	0	0.804878049	**42**	41
113	8	13.85640646	173.2050808	0	0.585365854	**42**	41
114							
115							
116							
117							
118							
119							
120							
121							
122	mean	SD	RSD				
123	14.85333333	18.31359422	123.2961909				
124	0.135	0.09	66.66666667				
125							
126							
127							

	N	O	P	Q	R	S	T
128							
129							
130							
131							
132							
133							
134							
135							
136							
137							
138	**%RSD**						
139	**7.626439919**						
140	**4.243600586**						
141							
142							
143							
144							
145							
146							
147							
148							
149							
150							
151							
152							
153							
154							
155							
156							
157							
158							
159							
160							
161							
162							
163							
164							
165							
166							
167							

	N	O	P	Q	R	S	T
168							
169							
170							
171							
172							
173							
174							
175							
176							
177							
178							
179							
180							
181							
182							
183							
184							
185							
186							
187							
188							
189							
190							
191							
192							
193							
194							
195							
196							
197							
198							
199							
200							
201							
202							

	N	O	P	Q	R	S	T
203							
204							
205							
206							
207							
208							
209							
210							
211							
212							
213							
214							
215							
216							
217							
218							
219							
220							
221							
222							
223							
224							
225							
226							
227							
228							
229							
230							
231							
232							
233							
234		**CF**					
235	**level 7**		**mean CF**	**SD**	**%RSD**		
236	**15359733411**	**155148822.3**	**158497293.4**	**8976869.1**	**5.663736506**		
237			**99547565.43**	**12114333**	**12.16939146**		
238							
239							
240							
241							
242							
243							

	N	O	P	Q	R	S	T
244							
245							
246							
247							
248							
249							
250							
251							
252							
253							
254							
255							
256							
257							
258							
259							
260							
261							
262							
263							
264							
265							

	A	B	C	D	E	F	G	H	I
1	**Init Calib ratio n**								
2	RRF=(Ax/Ais)*(Cis-Cx)				water, low				
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									

	A	B	C	D	E	F	G	H	I
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31	solids								
32	cocq3								
33		CYCLOHEXANE	benzene	**methylcyclohexane**	toluene	**isopropylbenzene**			
34	area of compound	2848140	1922449	**50057173**	2163216	**126289918**			
35	area of IS	4380761	4380761	**15146407**	4380761	**15146407**			

	A	B	C	D	E	F	G	H	I
36	amount of IS	250	250	**250**	250	**250**			
37	mean rrf from initial cal std	0.4866	2.3356	**1.0287**	3.2876	**2.6667**			
38	total volume purged	5	5	**5**	5	**5**			
39	dil factor	1	1	**1**	1	**1**			
40	weight of sample added	5	5	**5**	5	**5**			
41	D (100-% moisture)/100	1	1	**1**	1	**1**			
42	concentration	66.805108	9.394568	**160.6342**	7.5100246	**156.33453**			
43		9277.8934	1304.718	**88460.35**	1042.9922	**86092.555**			
44									
45									
46									
47									
48									
49									
50									
51	dilution factor calculation for medium level analysis								
52	weight		4.8						
53	% moisture		28						
54	D		0.72						
55	soil extract volume		5000						
56	soil aliquot volume		12						
57	DF (used in calculation)		550.6944						
58									
59									
60									
61	BFB	count 1	count 2	count 3	avg	rel abundance			
62	50	12072	19168	8078	13106	35.931788			

	A	B	C	D	E	F	G	H	I
63	75	28280	35176	19888	27781.333	76.166106			
64	95	39224	44752	25448	36474.667				
65	96	2248	2935	1289	2157.3333	5.9146074			
66	173	197	318	281	265.33333	0.966207			
67	174	31256	34656	16472	27461.333	75.288785			
68	175	2747	3011	1595	2451	8.9252768			
69	176	33936	35200	18776	29304	106.71004			
70	177	1891	1924	1188	1667.6667	5.6909182			
71									
72									
73									
74	BLANK EVALUATION								
75	[blank]	3.7							
76	multiplier	10							
77	dilution factor	1							
78	% moisture	7							
79	D	0.93							
80	value	39.784946							
81									
82									
83									
84									
85									
86									
87									
88									

	A	B	C	D	E	F	G	H	I
89									
90									
91									
92									
93									
94									
95									
96									
97									
98									
99									
100									
101									
102									
103									
104									
105									
106									

	J	K	L	M	N	O	P	Q	R
1							**Init Cali brati on**		
2							RRF=(Ax/Ais)*(Cis-Cx)		
3									
4							Ax	Ais	Cis
5							6809	345837	50
6							5936	345837	50
7									
8							17352	343710	50
9							14953	343710	50
10									
11							100021	370850	50
12							88336	370850	50
13									
14							195485	384962	50
15							157100	384962	50
16									
17							380416	384711	50
18							327959	384711	50
19									

	J	K	L	M	N	O	P	Q	R
20									
21									
22									
23							Cont. Calibration		
24							RRF=(Ax/Ais)*(Cis-Cx)		
25									
26							Ax	Ais	Cis
27							98409	366983	50
28							85908	366983	50
29									
30									
31		aqueous							
32									
33									
34									
35									

	J	K	L	M	N	O	P	Q	R
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									
51									
52									
53									
54									
55									
56									
57									
58		**g60**							
59				**acetone**	**dcm**	**tce**			
60		**area of compound**		**17353**	**5724**	**4949**			
61		**area of IS**		**162135**	**162135**	**155229**			
62		**amount of IS**		**125**	**125**	**125**			

	J	K	L	M	N	O	P	Q	R
63		mean rrf from initial cal std		0.149	0.591	0.516			
64		total volume purged		25	25	25			
65		dil factor		1	1	1			
66									
67									
68		concentration		3.591547	0.298679	0.308933			
69									
70									
71		g65							
72				vinyl chl	1,1-dce	acetone	dcm	trans-1,2	cis-1,2
73		area of compound		112895	94323	14232	5252	44117	11548
74		area of IS		170943	170943	170943	170943	170943	141801
75		amount of IS		125	125	125	125	125	125
76		mean rrf from initial cal std		0.815	0.401	0.149	0.591	0.479	0.463
77		total volume purged		25	25	25	25	25	25
78		dil factor		1	1	1	1	1	200
79									
80									
81		concentration		4.051686	6.880055	2.79382	0.25993	2.693948	175.8922
82									
83									
84		g60							
85				chloromethane	acetone	dcm			
86		area of compound		4023	13899	5575			
87		area of IS		168127	168127	168127			
88		amount of IS		125	125	125			

	J	K	L	M	N	O	P	Q	R
89		mean rrf from initial cal std		1.05	0.149	0.591			
90		total volume purged		25	25	25			
91		dil factor		1	1	1			
92									
93									
94		concentration		0.113944	2.774149	0.280537			
95									
96		g76							
97				acetone	dcm				
98		area of compound		17358	10446				
99		area of IS		154603	154603				
100		amount of IS		125	125				
101		mean rrf from initial cal std		0.149	0.591				
102		total volume purged		25	25				
103		dil factor		1	1				
104									
105									
106		concentration		3.767606	0.571629				

	S	T	U	V	W	X	Y	Z	AA
1									
2		2nd cal							
3									
4	Cx	RRF							
5	5	0.1968847		vinyl chloride					
6	5	0.1716416		vinyl chloride-d3					
7									
8	10	0.2524221		vinyl chloride					
9	10	0.2175235		vinyl chloride-d3					
10								mean RRF	SD
11	50	0.2697074		vinyl chloride				0.244025	0.027659
12	50	0.2381987		vinyl chloride-d3				0.208906	0.024302
13									
14	100	0.2539017		vinyl chloride					
15	100	0.2040461		vinyl chloride-d3					
16									
17	200	0.2472089		vinyl chloride					
18	200	0.2131204		vinyl chloride-d3					
19									

	S	T	U	V	W	X	Y	Z	AA
20									
21									
22									
23									
24									
25									
26	Cx	RRF						% D	
27	50	0.2681568		vinyl chloride				9.8891	
28	50	0.2340926		vinyl chloride-d3				12.05639	
29									
30									
31									
32									
33									
34									
35									

	S	T	U	V	W	X	Y	Z	AA
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									
51									
52									
53									
54									
55									
56									
57									
58									
59									
60									
61									
62									

	S	T	U	V	W	X	Y	Z	AA
63									
64									
65									
66									
67									
68									
69									
70									
71									
72	**tce**	**perc**							
73	**145584**	**13060**							
74	**153843**	**162006**							
75	**125**	**125**							
76	**0.516**	**0.434**							
77	**25**	**25**							
78	**200**	**1**							
79									
80									
81	**1833.945**	**0.9287362**							
82									
83									
84									
85									
86									
87									
88									

	S	T	U	V	W	X	Y	Z	AA
89									
90									
91									
92									
93									
94									
95									
96									
97									
98									
99									
100									
101									
102									
103									
104									
105									
106									

	AB	AC	AD	AE	AF	AG	AH	AI	AJ
1									
2									
3									
4				Ax	Ais	Cis	Cx	RRF	
5				18034	559908	50	5	0.322089	
6									
7									
8				93343	516292	50	25	0.36159	
9									
10	%RSD								
11	11.33434			207929	572228	50	50	0.363367	
12	11.63297								
13									
14				322139	609694	50	75	0.352241	
15									
16									
17				431724	654604	50	100	0.32976	
18									
19									

	AB	AC	AD	AE	AF	AG	AH	AI	AJ
20				801213	668764	50	175	0.3423	
21									
22									
23				907703	692564	50	200	0.32766	
24									
25									
26				Ax	Ais	Cis	Cx	RRF	
27	IS:			208882	596061	50	5	3.504373	
28	1,4-Difluorobenzene								
29									
30									
31									
32									
33									
34									
35									

	AB	AC	AD	AE	AF	AG	AH	AI	AJ
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									
51									
52									
53									
54									
55									
56									
57									
58									
59									
60									
61									
62									

	AB	AC	AD	AE	AF	AG	AH	AI	AJ
63									
64									
65									
66									
67									
68									
69									
70									
71									
72									
73									
74									
75									
76									
77									
78									
79									
80									
81									
82									
83									
84									
85									
86									
87									
88									

	AB	AC	AD	AE	AF	AG	AH	AI	AJ
89									
90									
91									
92									
93									
94									
95									
96									
97									
98									
99									
100									
101									
102									
103									
104									
105									
106									

	AK	AL	AM	AN	AO	AP	AQ
1							
2							
3							
4							
5	dichlorodifluoromethane						
6							
7							
8	dichlorodifluoromethane						
9							
10					mean RRF	SD	%RSD
11	dichlorodifluoromethane				0.342715	0.016801	4.902312
12							
13							
14	dichlorodifluoromethane						
15							
16							
17	dichlorodifluoromethane						
18							
19							

	AK	AL	AM	AN	AO	AP	AQ
20	dichlorodifluoromethane						
21							
22							
23	dichlorodifluoromethane						
24							
25							
26					% D		
27	dichlorodifluoromethane				922.5317		IS:
28							
29							
30							
31							
32							
33							
34							
35							

	AK	AL	AM	AN	AO	AP	AQ
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							
51							
52							
53							
54							
55							
56							
57							
58							
59							
60							
61							
62							

	AK	AL	AM	AN	AO	AP	AQ
63							
64							
65							
66							
67							
68							
69							
70							
71							
72							
73							
74							
75							
76							
77							
78							
79							
80							
81							
82							
83							
84							
85							
86							
87							
88							

	AK	AL	AM	AN	AO	AP	AQ
89							
90							
91							
92							
93							
94							
95							
96							
97							
98							
99							
100							
101							
102							
103							
104							
105							
106							

	A	B	C	D	E	F	G	H
1	**Init Calibration**							
2	RRF=(Ax/Ais)*(Cis-Cx)							
3	Ax	Ais	Cis	Cx	RRF			
4								
5	6407	154318	8	0.4	0.8303633		benzaldehyde	
6								
7								
8	29573	152186	8	2	0.7772857		benzaldehyde	
9								
10								
11	32086	146804	8	4	0.4371271		benzaldehyde	
12								
13								
14	191692	135945	8	10	1.1280562		benzaldehyde	
15								
16								
17	424412	166122	8	20	1.0219285		benzaldehyde	
18								
19								
20	755214	164122	8	40	0.9203081		benzaldehyde	
21								
22								
23	1043930	173768	8	60	0.8010144		benzaldehyde	
24								
25								
26	1261302	181864	8	80	0.6935413		benzaldehyde	
27								
28								
29	**Calibra**							
30	RRF=(Ax/Ais)*(Cis-Cx)							
31								
32	Ax	Ais	Cis	Cx	RRF			

	A	B	C	D	E	F	G	H
33	92581	81346	8	40	0.2276227		benzaldehyde	
34								
35								
36								
37								
38								
39	SOLID							
40							SMCs	
41		fluorene	phenanthrene	di-n-butyl	fluoranthene	pyrene	phenol	nitrobenzene
42	area of compound	1626727	5068010	3489422	1431072	2139076	399744	187743
43	area of IS	12407748	23600993	23600993	23600993	23333409	231740	962690
44	amount of IS	20	20	20	20	20	20	20
45	mean rrf from initial cal std	1.3216	1.0538	1.2306	1.0334	1.3072	2.059	0.268
46	volume of conc. Extract	5000	5000	5000	5000	5000		
47	GPC factor	2	2	2	2	2		
48	weight of sample added	1	1	1	1	1		
49	D (100-% moisture)/100	1	1	1	1	1		
50	concentration	19840.46	40754.82	24029.03	11735.261	14026.07	16.75539	14.55367
51	% recovery						41.88848	36.38417
52								
53	AQUEOUS							
54								
55		**acetophenone**	**naphthalene**	**2-methylnaphthalene**	**1,1'-**	**acenaphthylene**	**acenaphthene**	**dibenzofuran**
56	**area of compound**	**1626727**	**44657074**	**4135345**	**1185478**	**3483268**	**2586981**	**197877**
57	**area of IS**	**12407748**	**1579678**	**1579678**	**1285202**	**1285202**	**1285202**	**1285202**
58	**amount of IS**	**20**	**20**	**20**	**20**	**20**	**20**	**20**
59	**mean rrf from initial cal std**	**1.3216**	**0.909**	**0.5297**	**1.3729**	**1.7259**	**1.0898**	**1.515**
60								
61	**GPC factor**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
62								
63								
64	**concentration**	**1.984046**	**621.9963**	**98.84238**	**13.437337**	**31.40725**	**36.94069**	**2.03255**
65								
66								
67								
68	**BLANK EVALUATION**							
69	**[blank]**	**0.16**						

	A	B	C	D	E	F	G	H
70	multiplier	5						
71	dilution factor	0.99						
72	% moisture	2.9						
73	D	0.971						
74	value	27.16128						

	I	J	K	L	M	N
1						
2						
3						
4						
5						
6						
7				1,4-dichlorobenzene		
8						
9						
10			mean RRF	SD	%RSD	
11			0.8262031	0.2105447	25.48341	
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32			% D			

	I	J	K	L	M	N
33			-72.44954			
34						
35						
36						
37						
38						
39						
40						
41	DMP	4,6	pyrene	benzo(a)		
42	512527	49540	349252	264051		
43	420870	479906	306360	258796		
44	20	20	20	20		
45	1.561	0.172	1.655	1.375		
46						
47						
48						
49						
50	15.60256	12.00332	13.776498	14.840808		
51	39.0064	30.0083	34.441245	37.102021		
52						
53						
54						
55	**fluorene**	**phenanthrene**	**anthracene**	**carbazole**	**fluoranthene**	**pyrene**
56	**1047059**	**2636361**	**413384**	**567289**	**311022**	**372130**
57	**1285202**	**2238190**	**2238190**	**2238190**	**2238190**	**2379417**
58	**20**	**20**	**20**	**20**	**20**	**20**
59	**1.2489**	**1.001**	**1.0028**	**0.9392**	**1.0588**	**1.0754**
60						
61	**1**	**1**	**1**	**1**	**1**	**1**
62						
63						
64	**13.04674**	**23.53444**	**3.6835993**	**5.3973344**	**2.624885**	**2.908601**
65						
66						
67						
68						
69						

	I	J	K	L	M	N
70						
71						
72						
73						
74						

	A	B	C	D	E	F	G	H	I
1									
2		PCM asbestos (Fibers/mm$^{2)}$					Concentration (Fibers/cc)		
3		fiber count			2		Fibers/mm^2		
4		graticle field			102		collection area		
5		blank fiber count			0		sample volume		
6		graticle field			100		constant		
7		graticle field area			0.00785				
8					2.497814				
9									
10		Bias determination (Fibers/mm2)							
11		count 1	3						
12		count 2	4						
13		valueA	0.267949						
14		X	1.866025	average of the square roots of the two fiber counts					
15		S`r	0.185						
16		Sr	0.37	reference relative standard deviation					
17		valueB	0.956245						

	A	B	C	D	E	F	G	H	I
18		If ValueA > ValueB, then bias is present and results are rejected							
19									
20									
21		Analytical Sensitivity (S/cc)							
22		filter area (mm^2)			385				
23		# grid openings examined			19				
24		mean area (mm^2) of grid openings			0.0132				
25		volume of air sampled			3756				
26					0.000409				
27									
28									
29		concentration (S/cc)		0.0020435					

	A	B	C	D	E	F	G	H	I
30		# structures		5		ISO 10312			
31									
32		Density (S/mm^2)		19.936204					
33									
34		RL (Reporting Limit, S/mm^2)			3.987241				
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									
51									
52									
53									
54									
55									

	J	K	L	M	N	O
1						
2				Density RL (fibers/mm^2)		
3	2.497814			# fibers		5.5
4	385			filter area (mm^2)		0.00785
5	1084.3			# fields		102
6	1000					6.86899
7	0.000887					
8				fiber concentration RL (fibers/cc)		
9				filter area (mm^2)		385
10				volume		1084.3
11						0.002439
12		NIOSH 7400/7402				
13						
14						
15						
16						
17						

	J	K	L	M	N	O
18						
19						
20	**EPA 100.2**					
21		**Concentration**			**1781.481481**	
22		**# asbestos fibers counted**			**10**	
23		**filter area**			**962**	
24		**dilution**			**1**	
25		**# grid openings**			**10**	
26		**area of grid openings**			**0.0135**	
27		**volume of sample**			**40**	
28		**millions fibers/liter**			**1.781481481**	
29		**upper 95%**				

	J	K	L	M	N	O
30		**lower 95%**				
31						
32		6				
33		2				
34		1				
35		4				
36		3				
37		3				
38		4				
39		8				
40		6				
41		5				
42		11				
43		6				
44		5				
45		8				
46		10				
47		4				
48		9				
49		8				
50		7				
51	sum	110	7333.333			
52	number grids	19				
53	mean	5.789474				
54	std dev	2.740214				
55	median	6				

	A	B	C	D	E	F	G	H	I
1									
2	$A1_n$ (area primary ratio)					2340	9760	43600	177000
3	$A2_n$ (area secondary ratio)					2880	12600	53500	229000
4	C_1 (concentration of labeled compound in cal std)					100	100	100	100
5	$A1_1$ (area of primary ratio for labeled compound)					496000	528000	431000	410000
6	$A2_1$ (area secondary ratio for labeled compound)					629000	665000	546000	516000
7	C_N (concentration of native compound in std)					0.5	2	10	40
8	RR (Relative Response of each native congener relative to the labeled compound)					0.928	0.937133	0.993859	1.096112

	A	B	C	D	E	F	G	H	I
9									
10									
11		[extract]	0.5						
12	aqueous	final result	0.453817						
13		sample weight	10						
14	soil	final result	0.453817						
15									
16									
17						CONGENER			
18						CRQLs			
19									
20						water			
21						contract CRQL			

	A	B	C	D	E	F	G	H	I
22						contract sample vol (mL)			
23						volume of concentrated extract (uL)			
24						DF			
25						volume of water extract (mL)			
26						contract concentrated extract vol (uL)			
27						% soild factor			
28						weight of dry sample (residue)			
29						weight of wet sample			
30									
31									
32						cs1	cs2	cs3	cs4
33						1514.26	7894.76	100016.1	768523.9
34						2242.41	11125.03	134054.3	996768.4
35						100	100	100	100
36						144748.6	154096.1	191932.2	176674.3
37						185505.3	190518.9	243989	225050.2
38						1.13751	1.103828	1.073911	1.098571

	J	K	L	M	N	O	P	Q	R
1						Dioxin / Furans			
2	1210000					Isotope Dilution			
3	1550000					extract concentration (C_{ex})			
4	100					$A1_n$ (area primary ratio)			
5	591000					$A2_n$ (area secondary ratio)			
6	747000					C_1 (concentration of labeled compound in cal std)			
7	200					$A1_1$ (area of primary ratio for labeled compound)			
8	1.03139	0.997299	Mean RR			$A2_1$ (area secondary ratio for labeled compound)			

	J	K	L	M	N	O	P	Q	R
9						Mean Relative Response (RR)			
10									
11						Internal Standardization			
12						extract concentration (C_{ex})			
13						$A1_n$ (area primary ratio)			
14						$A2_n$ (area secondary ratio)			
15						C_1 (concentration of labeled compound in cal std)			
16						$A1_1$ (area of primary ratio for labeled compound)			
17						$A2_1$ (area secondary ratio for labeled compound)			
18						Mean Relative Response Factor (RRF)			
19									
20	21.05839					EDL Soild	**0.005631**	EDL Liquid	**0.055184**
21	20								

	J	K	L	M	N	O	P	Q	R
22	1000					quantity of relevant labeled standard (Q_L)			
23	20					peak heights of the noise for both quant. Ions (H_{X1}, H_{X2})			
24	1								
25	949.74					dilution factor (D)			
26	20					Weight in g (W)			
27	1					Volume in L (V)			
28	1446.1					peak height of the labeled standard ions (H_{L1}, H_{L2})			
29	1446.1								
30						mean relative response (RR)			
31									
32	cs5								
33	4581008								
34	6003357								
35	100								
36	213485.5								
37	269813								
38	1.095013	1.101767							

	S	T	U	V	W	X	Y	Z
1								
2				sample concentration, solid (ng/Kg)				**220.48**
3		**0.11024**		sample concentration, aqueous (pg/L)				**2.16051**
4		169						
5		182		C_{ex}	0.11024			
6		100		V_{ex}	20000			
7		162000		W_s	10			
8		152000		V_s	1020.5			

	S	T	U	V	W	X	Y	Z
9		1.014						
10								
11								
12		**1**						
13		1						
14		1						
15		1						
16		1						
17		1						
18		1						
19								
20				EMPC				
21								

	S	T	U	V	W	X	Y	Z
22		100		solid			**0.010802**	
23		889		aqueous			**0.105854**	
24		865		dilution factor (D)			0.9799	
25		1		weight of solid in Kg (W_s)			10	
26		10		volume of liquid in L (V_s)			1.0205	
27		1.0205						
28		3390000						
29		4420000						
30		0.997						
31								
32								
33								
34								
35								
36								
37								
38								

	A	B	C	D
1				
2	soil density	131.2		
3	water density	0.99808		TDS
4	mass dry soil	49.8		weight of dried residue + dish
5	mass pyc, h2o and soil	710.6		weight of dish
6	mass pyc +h2o	679.6		volume
7	sg @20C	2.648591809		
8	k	0.99987		TSS
9				weight of filter + residue
10				weight of filter
11				mL sample
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28	Raw TOC	0.1815		
29	R1	0.208		
30	R2	0.155		
31	W (mg)	1		
32				
33				
34				
35				
36				
37				
38				
39				
40	seed 1 init DO	8.71		
41	seed 1 final DO	7.28		
42	seed 2 init DO	8.69		
43	seed 2 final DO	5.56		

	A	B	C	D
44	Vs 1	0.666666667		
45	P 1	0.333333333		
46	Vs 2	0.166666667		
47	P 2	0.833333333		
48	V1	100		
49	V2	250		
50	DF	1		
51	S	0.351666667		
52	S1	0.286		
53	S2	0.417333333		
54	V1	10		
55	V2	15		
56	dilution 1 init DO	8.71		
57	dilution 1 final DO	7.28		
58	dilution 2 init DO	8.69		
59	dilution 2 final DO	5.56		
60	BOD 1	3.586666667		
61	BOD 2	3.685666667		
62	BOD	3.636166667		SULFIDE
63				
64				mL Iodine
65				Normality Iodine
66				mL $Na_2S_2O_3$
67				Normality $Na_2S_2O_3$
68				method conversion factor
69				sample volume (L)
70				
71				
72				
73				
74				
75				
76				
77				
78				
79				
80				
81				
82				
83				
84				
85				
86				
87				
88				
89				

	A	B	C	D
90				
91				
92				
93				
94				
95				
96				
97				
98				
99				
100				
101				
102				
103				
104				
105				
106				
107				
108				
109				
110				
111				
112				
113				
114				
115				
116				
117				
118	V = volume (cm^3)	285.4262421		
119	diameter (in.)	2.846	72.2884	mm
120	height (in.)	2.738	69.5452	mm
121	dry density (P_d) in g/cm^3 or Mg/m^3	1.854119898		
122	(P_m) density of total(moist) specimen	2.100717844		
123	water content of soil (W)	13.3		
124				
125	dry density	1.854119898		
126	mass of moist specimen (M_t)	599.6		
127	y_m (moist unit weight)	131.1436136	in lbf/cubic feet	
128	y_d (dry unit weight)	115.748997	in lbf/cubic feet	
129				
130				
131				
132	TOC			
133	raw 1			

	A	B	C	D
134	result 1 (mg/Kg)	84.20040486		
135	TOC measured (ug)	0.08319		
136	sample size (g)	0.988		
137	% soild	85.41		
138	raw 2			
139	result 2 (mg/Kg)	92		
140	TOC measured (ug)	0.092		
141	sample size (g)	1		
142	% soild	85.41		
143	cumulative TOC	1.031497511		
144				
145	TOC by Walkey Black method			
146	weight sample	2.53		
147	mL $FeSO_4$	50.5		
148	mL K2Cr2O7	25		
149	N K2Cr2O7	1		
150	N FeSO4	0.4901		
151	TOC (mg/Kg)	331.9494071		
152				
153				
154				
155				
156				
157				
158				
159				
160				
161				
162				
163				
164	Permanganate Dosing Concentrations			
165	Test Number	Volume of KMnO4 soln in mL	Total vol of makeup water in mL	target permanganate dosage (g KMnO4/Kg soil dry)
166	1	3.766666667	96.23333333	2.26
167	2	18.83333333	81.16666667	11.3
168	3	37.66666667	62.33333333	22.6
169				
170	weight of soil sample	50		
171	conc. Of KMnO4	30000		
172	% moisture of soil sample	0.17		
173				

	E	F	G	H	I	J	K
1							
2							
3		0.029					
4		67.3091					
5		67.3062					
6		100					
7							
8	0.0064						
9	0.1165						
10	0.1149						
11	250						
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43					**quadratic**		

	E	F	G	H	I	J	K
44					conc	abs	
45					0	0.005	
46					5	0.027	
47					10	0.07	
48					15	0.116	
49					20	0.148	
50					25	0.19	
51					30	0.228	
52				(a)	35	0.0323	
53				(b)	corr. Coeff	0.32044583	
54				©	slope	0.00378119	
55					intercept	0.03186667	
56					unknown abs	0.082	
57					concentration	0.0343314	
58							
59							
60							
61				**Cl^-**	**NO_2**	**NO_3**	**SO_4**
62			**0.1**	**0.04**	**0.019**	**0.016**	**0.031**
63			**1**	**0.293**	**0.185**	**0.153**	**0.251**
64	8		**5**	**1.375**	**0.922**	**0.796**	**1.053**
65	0.0277		**10**	**3.079**	**1.948**	**1.661**	**2.171**
66	8.8		**20**	**6.496**	**4.045**	**3.476**	**4.48**
67	0.0254		**50**	**17.529**	**10.537**	**9.955**	**12.378**
68	16.03		**100**	**38.504**			**27.311**
69	0.05		**200**	**81.822**			**59.93**
70	-0.615552		peak area	**3.119**	**2.09**	**1.77**	**2.291**
71			[sample]	10.35419	10.31982561	9.82614132	10.9601225
72							
73							
74							
75							
76							
77							
78							
79							using CF
80							Cl
81							No2
82							No3
83							so4
84							
85							
86							IC
87							
88							
89							**M**

	E	F	G	H	I	J	K
90							**E**
91							**E**
92							**so4**
93							
94							
95							
96							
97							
98							
99							
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
121							
122							
123							
124							
125							
126							
127							
128							
129							
130							
131							
132							
133							

	E	F	G	H	I	J	K
134							
135							
136							
137							
138							
139							
140							
141							
142							
143							
144							
145							
146							
147							
148							
149							
150							
151							
152							
153							
154							
155							
156							
157							
158							
159							
160							
161							
162							
163							
164			residual conc.				
165	actual KMnO4 dose with soil moisture	measured conc.	12.89	PSOD-T1			
166	2.7	10.7	6.39	-10.17			
167	13.6	5.3	12.83	7.23			
168	27.2	10.65		14.40			
169							
170							
171							
172							
173							

	L	M	N	O	P	Q	R	S
1								no2
2								linear
3								conc
4								0
5								0.05
6								0.25
7								0.5
8								1
9								2.5
10								5
11								corr. Coeff
12								slope
13								intercept
14								unknown abs
15								concentra tion
16								sample weight
17								DF
18								% solid
19								final concentra tion
20								
21								
22								
23								
24								
25								
26								
27								
28						SO4		
29					linear			
30					conc	abs		
31					0.005	0.00037		
32					0.05	0.0034		
33					0.1	0.00685		
34					0.5	0.0345		
35								
36								
37								
38				(a)	corr. Coeff	0.999995		
39				(b)	slope	0.069032		
40				©	intercept	-2.4E-05		
41					unknown abs	0.000445		
42					concentration	0.006793		
43	Ca	31200			sample weight	2.5069		

	L	M	N	O	P	Q	R	S
44	Mg	13700			DF	1		
45	HARDNESS	134.323			% solid	49.9		
46					final concentration	0.013613		
47								
48								
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								
61								
62		**acetylene**		**ethane**		**ethene**		**methane**
63		area	amount	area	amount	area	amount	area
64		0.042	0.2049	5083	1.35	4549	0.0258	4921
65		0.264	1.2945	9259	3.62	7700	0.1091	6426
66		1.381	6.7761	16432	6.76	14005	1.0427	10235
67		7.295	35.7895	29309	13.5	25151	10.5136	16836
68		30.437	149.3158	65505	33.8	56000	25.996	34884
69				.			263.061	
70		17.295	**84.84505197**	0.002	**-1.703742727**	30.723	**-3.89682**	16.664
71								
72								
73								
74								
75								
76								
77								
78								
79	CF	area	DF	conc.				
80	1.89	163.3798	1	86.44434				
81	1771.87553	536790	1	302.9502				
82	2143.79067	10267597	1	4789.459				
83	0	20170431	1	#DIV/0!				
84								
85								
86								
87		**CF**		**CF**		**CF**		**CF**
88	**level 1**		**level 2**		**level 3**		**level 4**	
89	**4921**	**6374.352**	**6426**	**3329.534**	**10235**	**2651.554**	**16836**	**2180.829**

	L	M	N	O	P	Q	R	S
90	**4549**	**3137.241**	**7700**	**2278.107**	**14005**	**1934.392**	**25151**	**1734.552**
91	**5083**	**3765.185**	**9259**	**2557.735**	**16432**	**2430.769**	**29309**	**2171.037**
92								
93								
94								
95								
96								
97								
98								
99								
100								
101								
102								
103								
104								
105								
106								
107								
108								
109								
110								
111								
112								
113								
114								
115								
116								
117								
118								
119								
120								
121								
122								
123								
124								
125								
126								
127								
128								
129								
130								
131								
132								
133								

	L	M	N	O	P	Q	R	S
134								
135								
136								
137								
138								
139								
140								
141								
142								
143								
144								
145								
146								
147								
148								
149								
150								
151								
152								
153								
154								
155								
156								
157								
158								
159								
160								
161								
162								
163								
164								
165								
166								
167								
168								
169								
170								
171								
172								
173								

	T	U	V	W	X	Y	Z	AA
1			no3					
2			linear					
3	abs		conc	abs				
4	0		0	0				
5	129938		0.05	136204				
6	679329		0.25	678052				
7	1407826		0.5	1384163				
8	2950683		1	2885220				
9	7969891		2.5	7810650				
10	17538501		5	17215450				
11	0.9977103		corr. Coeff	0.997608				
12	3498029.5		slope	3431817				
13	-265072.32		intercept	-258022				
14	3338418		unknown abs	10267597				
15	1.0301486		concentration	3.067069				
16	2.5069		sample weight	2.5069				
17	1		DF	1				
18	49.9		% solid	49.9				
19	2.0644261		final concentration	6.146431				
20								
21								
22								
23								
24								
25								
26								
27								
28							cr6+	
29							linear	
30	BOD	2.36					conc	abs
31	D1	8.7					0	0.005
32	D2	5.44					5	0.027
33	B1	8.8					10	0.07
34	B2	7.9					15	0.116
35	f	1					20	0.148
36	P	1					25	0.19
37							30	0.228
38	O&G	43.53591					35	0.0323
39	A	98.3451					corr. Coeff	0.320446
40	B	98.3057					slope	0.003781
41	mL sample	905					intercept	0.035867
42							unknown abs	0.082
43							concentration	12.20074

	T	U	V	W	X	Y	Z	AA
44							sample weight	2.5104
45							DF	1
46							% solid	83.5
47							digestate vol (L)	0.1
48							final concentration	0.582045
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								
61								
62	**(FID)**	**methane**	**(TCD)**					
63	amount	area	amount					
64	0.0689	0.005	0					
65	0.111	0.027	5					
66	0.5456	0.07	10					
67	4.9451	0.116	15					
68	12.1386	0.148	20					
69	121.4975	0.19	25					
70	**-2.6361155**	0.228	30					
71		0.0323	35					
72		0.07	**14.78491**					
73								
74								
75								
76								
77								
78								
79								
80								
81								
82								
83								
84								
85								
86								
87		**CF**		**CF**				
88	**level 5**		**level 6**		**mean CF**	**SD**	**%RSD**	
89	**34884**	**1807.461**			**3268.746**	**1826.768**	**55.88590021**	

	T	U	V	W	X	Y	Z	AA
90	**56000**	**1546.961**			**1771.876**	**1033.289**	**58.3160999**	
91	**65505**	**1938.018**			**2143.791**	**1226.503**	**57.21188968**	
92								
93								
94								
95								
96								
97								
98								
99								
100								
101								
102								
103								
104								
105								
106								
107								
108								
109								
110								
111								
112								
113								
114								
115								
116								
117								
118								
119								
120								
121								
122								
123								
124								
125								
126								
127								
128								
129								
130								
131								
132								
133								

	T	U	V	W	X	Y	Z	AA
134								
135								
136								
137								
138								
139								
140								
141								
142								
143								
144								
145								
146								
147								
148								
149								
150								
151								
152								
153								
154								
155								
156								
157								
158								
159								
160								
161								
162								
163								
164								
165								
166								
167								
168								
169								
170								
171								
172								
173								

	A	B	C	D	E	F	G	H	I
1									
2									
3									
4									
5		Percentage passing #10 sieve			**47**		Total mass of soil passing subsequent sieves		
6									
7		mass passing #10 sieve			**47**		mass passing #10 sieve		
8		mass of soil originally split			100		mass passing #4 sieve		
9		mass retained on #10 sieve			53		mass retained on #10 sieve		
10									
11		Hygroscopic Moisture correction factor				**0.987**			
12									
13		mass of oven dried sample				98.7			
14		air-dry mass before drying				100			
15									
16									
17		Oven-dry mass of soil used in hydrometer analysis					**98.7**		
18									
19		Mass of total sample represented (W)				**210**			

	A	B	C	D	E	F	G	H	I
20		Percentage of soil in suspension (P)							
21			for hydrometer 151H		=	**13333.33**			
22			for hydrometer 152H		=	**2.309524**			
23									
24		hydrometer 151H reading						5	
25		hydrometer 152H reading						5	
26		hydrometer 151H composite correction						1	
27		hydrometer 152H composite correction						0	
28		hydrometer 151H reading with composite correction applied(R)						**4**	
29		hydrometer 152H reading with composite correction applied(R)						**5**	
30		specific gravity of soil particles (G)						7	

	A	B	C	D	E	F	G	H	I
31		specific gravity of liquid / soil suspension (G1)						8	
32		correction factor based on Table 1 (a)						0.97	
33		Diameter of particle in corresponding percentage of soil in suspension (D)							
34		K Value from table 3			0.01474			**0.02386**	
35		effective depth from table 2			13.1				
36		interval of time in minutes			5				

	J	K	L	M	N	O	P	Q	R
1									
2									
3									
4									
5			**6**		Total percentage passing each sieve				**50**
6									
7	1				Total mass passing		1		
8	2				Total mass of sample		2		
9	3								
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									

	J	K	L	M	N	O	P	Q	R
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

	J	K	L	M	N	O	P	Q	R
31									
32									
33									
34									
35									
36									

	A	B	C	D	E	F	G	H
1	sample number	% Solid	result					
2	50	0.85	**0.458824**		CCB	0.078		
3	51	0.825	**0.472727**		volume	1		
4	52	0.843	**0.462633**		weight	1		
5	70	0.796	**0.48995**		multiplier	5		
6	71	0.764	**0.510471**					
7	72	0.808	**0.482673**					
8	77	0.832	**0.46875**					
9	78	0.763	**0.51114**					
10	82	0.783	**0.498084**					
11	83	0.808	**0.482673**					
12	84	0.565	**0.690265**					
13	85	0.741	**0.526316**					
14			**#DIV/0!**					
15			**#DIV/0!**					
16			**#DIV/0!**					
17			**#DIV/0!**					
18			**#DIV/0!**					
19			**#DIV/0!**					
20			**#DIV/0!**					
21			**#DIV/0!**					
22								
23								
24								
25								
26								
27								
28	Tb_159							
29	percent relative intensity	11.50487			dish	1.17		
30	IS intensity of sample	423787			wet	9.65		
31	IS intensity of SO	3683544			dry	4.89		
32					% moisture	56.13207547		
33					% solid	43.86792453		
34	Bi_209							
35	percent relative intensity	18.66395			**SPIKE %R**			
36	IS intensity of sample	423787			**spike result**	**21.7**		
37	IS intensity of SO	2270618			**sample result**	**15.2**		
38					**spike added**	**5.2**		
39					**%R**	**125**		
40								
41								
42								

	A	B	C	D	E	F	G	H
43								
44								
45								
46								
47								
48	**DUP RPD**	**-25.5373**						
49	**sample**	**690**						
50	**dup**	**892**						
51								
52								
53	**% Difference**	**10.13746**						
54	**sample**	**58.2**						
55	**dilution**	**52.3**						
56								
57								
58	ICP-MS tune							
59	value 1	2615.239						
60	value 2	2601.237						
61	value 3	2614.906						
62	value 4	2562.23						
63	value 5	2614.573						
64	mean value	2601.637						
65	Std Dev.	22.81169						
66	%RSD	0.876821						

	I	J	K	L
1		**SOILS**		
2		**element**	**result mg/L**	**result mg/Kg**
3		**Al**	**39156**	**4711.913**
4		**Sb**	**1.006**	**0.121059**
5		**As**	**54.5**	**6.558363**
6		**Ba**	**292.3**	**35.17449**
7		**Be**	**3.417**	**0.411191**
8		**Cd**	**2.385**	**0.287004**
9		**Ca**	**7854.4**	**945.1745**
10		**Cr**	**75.29**	**9.060168**
11		**Co**	**54.99**	**6.617329**
12		**Cu**	**179.6**	**21.61252**
13		**Fe**	**208650**	**25108.3**
14		**Pb**	**103**	**12.39471**
15		**Mg**	**8376.9**	**1008.051**
16		**Mn**	**3742**	**450.3008**
17		**Ni**	**104.5**	**12.57521**
18		**K**	**3610.6**	**434.4886**
19		**Se**	**5.403**	**0.650181**
20		**Ag**	**1.128**	**0.13574**
21		**Na**		**0**
22		**Tl**	**0**	**0**
23		**V**	**104.4**	**12.56318**
24		**Zn**	**409.2**	**49.24188**
25		**Sn**	**1.128**	**0.13574**
26				
27		**% solid**	**0.831**	
28		**prep weight (g)**	**1**	
29		**prep volume (L)**	**0.1**	
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				

	I	J	K	L
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				
61				
62				
63				
64				
65				
66				