1A-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix: (water/soil/waste) _____ Lab Sample ID: _____

Sample wt/vol: _____(g/mL)____ Lab File ID: _____

Level: (low/med) _____ Date Received: _____

% Moisture: (not decanted) _____ Date Analyzed: _____

GC Column: _____ ID: _____(m) _____(mm) _____(µm)

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Dilution Factor: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)_____	Q
75-71-8	Dichlorodifluoromethane		
74-87-3	Chloromethane		
75-01-4	Vinyl Chloride		
74-83-9	Bromomethane		
75-00-3	Chloroethane		
75-69-4	Trichlorofluoromethane		
75-35-4	1,1-Dichloroethene		
67-64-1	Acetone		
75-15-0	Carbon Disulfide		
75-09-2	Methylene Chloride		
156-60-5	trans-1,2-Dichloroethene		
75-34-3	1,1-Dichloroethane		
590-20-7	2,2-Dichloropropane		
78-93-3	2-Butanone		
156-59-4	cis-1,2-Dichloroethene		
67-66-3	Chloroform		
74-97-5	Bromochloromethane		
71-55-6	1,1,1-Trichloroethane		
563-58-6	1,1-Dichloropropene		
56-23-5	Carbon Tetrachloride		
71-43-2	Benzene		
107-06-2	1,2-Dichloroethane		
79-01-6	Trichloroethene		
78-87-5	1,2-Dichloropropane		
75-27-4	Bromodichloromethane		
74-95-3	Dibromomethane		
108-10-1	4-Methyl-2-Pentanone		
10061-02-6	trans-1,3-Dichloropropene		
108-88-3	Toluene		
10061-01-5	cis-1,3-Dichloropropene		
124-48-1	Dibromochloromethane		
79-00-5	1,1,2-Trichloroethane		
591-78-6	2-Hexanone		

1A-2

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix: (water/soil/waste) _____ Lab Sample ID: _____

Sample wt/vol: _____(g/mL)____ Lab File ID: _____

Level: (low/med) _____ Date Received: _____

% Moisture: (not decanted) _____ Date Analyzed: _____

GC Column: _____ ID: _____(m) _____(mm) _____(µm)

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Dilution Factor: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)_____	Q
127-18-4	Tetrachloroethene		
123-91-1	1,4-Dioxane		
109-99-9	Tetrahydrofuran		
142-28-9	1,3-Dichloropropane		
124-48-1	Dibromochloromethane		
75-25-2	Bromoform		
98-82-8	Isopropylbenzene		
106-93-4	1,2-Dibromoethane		
108-90-7	Chlorobenzene		
100-41-4	Ethylbenzene		
630-20-6	1,1,1,2-Tetrachloroethane		
79-34-5	1,1,2,2-Tetrachloroethane		
1330-20-7	Xylene (total)		
100-42-5	Styrene		
108-86-1	Bromobenzene		
103-65-1	N-Propylbenzene		
96-18-4	1,2,3-Trichloropropane		
95-49-8	2-Chlorotoluene		
108-67-8	1,3,5-Trimethylbenzene		
106-43-4	4-Chlorotoluene		
98-06-6	tert-Butylbenzene		
95-63-6	1,2,4-Trimethylbenzene		
135-98-8	sec-Butylbenzene		
99-87-6	4-Isopropyltoluene		
541-73-1	1,3-Dichlorobenzene		
106-46-7	1,4-Dichlorobenzene		
104-51-8	N-Butylbenzene		
95-50-1	1,2-Dichlorobenzene		
96-12-8	1,2-Dibromo-3-Chloropropane		
120-82-1	1,2,4-Trichlorobenzene		
87-68-3	Hexachlorobutadiene		
91-20-3	Naphthalene		
87-61-6	1,2,3-Trichlorobenzene		

1A-3

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix: (water/soil/waste) _____ Lab Sample ID: _____

Sample wt/vol: _____(g/mL)____ Lab File ID: _____

Level: (low/med) _____ Date Received: _____

% Moisture: (not decanted) _____ Date Analyzed: _____

GC Column: _____ ID: _____(m) _____(mm) _____(µm)

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Dilution Factor: _____

Number TICs found: _____

CONCENTRATION UNITS:
(ug/L or ug/Kg)_____

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

1B-1

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix: (water/soil/waste) _____ Lab Sample ID: _____

Sample wt/vol: _____(g/mL)____ Lab File ID: _____

Level: (low/med) _____ Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:_____

Concentrated Extract Volume: _____(uL) Date Analyzed: _____

Injection Volume: _____(uL) Dilution Factor: _____

GPC Cleanup: (Y/N)___ pH:____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)_____	Q
108-95-2	Phenol		
111-44-4	bis(2-Chloroethyl)ether		
95-57-8	2-Chlorophenol		
541-73-1	1,3-Dichlorobenzene		
106-46-7	1,4-Dichlorobenzene		
95-50-1	1,2-Dichlorobenzene		
95-48-7	2-Methylphenol		
108-60-1	2,2'-oxybis(1-Chloropropane)		
106-44-5	4-Methylphenol		
621-64-7	N-Nitroso-di-n-propylamine		
67-72-1	Hexachloroethane		
98-95-3	Nitrobenzene		
78-59-1	Isophorone		
88-75-5	2-Nitrophenol		
105-67-9	2,4-Dimethylphenol		
111-91-1	bis(2-Chloroethoxy)methane		
120-83-2	2,4-Dichlorophenol		
120-82-1	1,2,4-Trichlorobenzene		
91-20-3	Naphthalene		
106-47-8	4-Chloroaniline		
87-68-3	Hexachlorobutadiene		
59-50-7	4-Chloro-3-methylphenol		
91-57-6	2-Methylnaphthalene		
77-47-4	Hexachlorocyclopentadiene		
88-06-2	2,4,6-Trichlorophenol		
95-95-4	2,4,5-Trichlorophenol		
91-58-7	2-Chloronaphthalene		
88-74-4	2-Nitroaniline		
131-11-3	Dimethylphthalate		
208-96-8	Acenaphthylene		
606-20-2	2,6-Dinitrotoluene		
99-09-2	3-Nitroaniline		
83-32-9	Acenaphthene		

1B-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix: (water/soil/waste) _____ Lab Sample ID: _____

Sample wt/vol: _____(g/mL)____ Lab File ID: _____

Level: (low/med) _____ Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:_____

Concentrated Extract Volume: _____(uL) Date Analyzed: _____

Injection Volume: _____(uL) Dilution Factor: _____

GPC Cleanup: (Y/N)___ pH:____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)_____	Q
51-28-5	2,4-Dinitrophenol		
100-02-7	4-Nitrophenol		
132-64-9	Dibenzofuran		
121-14-2	2,4-Dinitrotoluene		
84-66-2	Diethylphthalate		
7005-72-3	4-Chlorophenyl-phenylether		
86-73-7	Fluorene		
100-01-6	4-Nitroaniline		
534-52-1	4,6-Dinitro-2-methylphenol		
86-30-6	N-Nitrosodiphenylamine (1)		
101-55-3	4-Bromophenyl-phenylether		
118-74-1	Hexachlorobenzene		
87-86-5	Pentachlorophenol		
85-01-8	Phenanthrene		
120-12-7	Anthracene		
86-74-8	Carbazole		
84-74-2	Di-n-butylphthalate		
206-44-0	Fluoranthene		
129-00-0	Pyrene		
85-68-7	Butylbenzylphthalate		
91-94-1	3,3'-Dichlorobenzidine		
56-55-3	Benzo(a)anthracene		
218-01-9	Chrysene		
117-81-7	bis(2-Ethylhexyl)phthalate		
103-23-1	Di(2-ethylhexyl)adipate		
117-84-0	Di-n-octylphthalate		
205-99-2	Benzo(b)fluoranthene		
207-08-9	Benzo(k)fluoranthene		
50-32-8	Benzo(a)pyrene		
193-39-5	Indeno(1,2,3-cd)pyrene		
53-70-3	Dibenz(a,h)anthracene		
191-24-2	Benzo(g,h,i)perylene		

(1) - Cannot be separated from Diphenylamine

1B-3

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix: (water/soil/waste) _____ Lab Sample ID: _____

Sample wt/vol: _____(g/mL)____ Lab File ID: _____

Level: (low/med) _____ Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:_____

Concentrated Extract Volume: _____(uL) Date Analyzed: _____

Injection Volume: _____(uL) Dilution Factor: _____

GPC Cleanup: (Y/N)___ pH:____

Number TICs found: _____

CONCENTRATION UNITS:
(ug/L or ug/Kg)_____

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1._____	_____	_____	_____	_____
2._____	_____	_____	_____	_____
3._____	_____	_____	_____	_____
4._____	_____	_____	_____	_____
5._____	_____	_____	_____	_____
6._____	_____	_____	_____	_____
7._____	_____	_____	_____	_____
8._____	_____	_____	_____	_____
9._____	_____	_____	_____	_____
10._____	_____	_____	_____	_____
11._____	_____	_____	_____	_____
12._____	_____	_____	_____	_____
13._____	_____	_____	_____	_____
14._____	_____	_____	_____	_____
15._____	_____	_____	_____	_____

1C

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix: (water/soil/waste) _____ Lab Sample ID: _____

Sample wt/vol: _____(g/mL)____ Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: _____(uL) Date Analyzed: _____

Injection Volume: _____(uL) Dilution Factor: _____

GPC Cleanup: (Y/N)___ pH:____ Sulfur Cleanup: (Y/N) ___

Aroclor Acid Cleanup: (Y/N)___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)_____	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
7421-93-4	Endrin aldehyde		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016		
11104-28-2	Aroclor-1221		
11141-16-5	Aroclor-1232		
53469-21-9	Aroclor-1242		
12672-29-6	Aroclor-1248		
11097-69-1	Aroclor-1254		
11096-82-5	Aroclor-1260		
37324-23-5	Aroclor-1262		
11100-14-4	Aroclor-1268		

1D-1
MODIFIED 524.2 VOLATILE ORGANICS
ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix: water Lab Sample ID: _____

Sample volume: _____(mL) Lab File ID: _____

Dilution Factor: _____ Date Received: _____

Date Analyzed: _____

GC Column: _____ ID: _____(m) _____(mm) _____(µm)

CAS NO.	COMPOUND	CONCENTRATION: (ug/L)	Q
75-71-8	Dichlorodifluoromethane		
74-87-3	Chloromethane		
75-01-4	Vinyl Chloride		
74-83-9	Bromomethane		
75-00-3	Chloroethane		
75-69-4	Trichlorofluoromethane		
75-35-4	1,1-Dichloroethene		
67-64-1	Acetone		
75-15-0	Carbon Disulfide		
75-09-2	Methylene Chloride		
156-60-5	trans-1,2-Dichloroethene		
75-34-3	1,1-Dichloroethane		
590-20-7	2,2-Dichloropropane		
78-93-3	2-Butanone		
156-59-4	cis-1,2-Dichloroethene		
67-66-3	Chloroform		
74-97-5	Bromochloromethane		
71-55-6	1,1,1-Trichloroethane		
563-58-6	1,1-Dichloropropene		
56-23-5	Carbon Tetrachloride		
71-43-2	Benzene		
107-06-2	1,2-Dichloroethane		
79-01-6	Trichloroethene		
78-87-5	1,2-Dichloropropane		
75-27-4	Bromodichloromethane		
74-95-3	Dibromomethane		
108-10-1	4-Methyl-2-Pentanone		
10061-02-6	trans-1,3-Dichloropropene		
108-88-3	Toluene		
10061-01-5	cis-1,3-Dichloropropene		
124-48-1	Dibromochloromethane		
79-00-5	1,1,2-Trichloroethane		
591-78-6	2-Hexanone		

1D-2
MODIFIED 524.2 VOLATILE ORGANICS
ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix: water Lab Sample ID: _____

Sample volume: _____(mL) Lab File ID: _____

Dilution Factor: _____ Date Received: _____

Date Analyzed: _____

GC Column: _____ ID: _____(m) _____(mm) _____(µm)

CAS NO.	COMPOUND	CONCENTRATION: (ug/L)	Q
127-18-4	Tetrachloroethene		
123-91-1	1,4-Dioxane		
109-99-9	Tetrahydrofuran		
142-28-9	1,3-Dichloropropane		
124-48-1	Dibromochloromethane		
75-25-2	Bromoform		
98-82-8	Isopropylbenzene		
106-93-4	1,2-Dibromoethane		
108-90-7	Chlorobenzene		
100-41-4	Ethylbenzene		
630-20-6	1,1,1,2-Tetrachloroethane		
79-34-5	1,1,2,2-Tetrachloroethane		
1330-20-7	Xylene (total)		
100-42-5	Styrene		
108-86-1	Bromobenzene		
103-65-1	N-Propylbenzene		
96-18-4	1,2,3-Trichloropropane		
95-49-8	2-Chlorotoluene		
108-67-8	1,3,5-Trimethylbenzene		
106-43-4	4-Chlorotoluene		
98-06-6	tert-Butylbenzene		
95-63-6	1,2,4-Trimethylbenzene		
135-98-8	sec-Butylbenzene		
99-87-6	4-Isopropyltoluene		
541-73-1	1,3-Dichlorobenzene		
106-46-7	1,4-Dichlorobenzene		
104-51-8	N-Butylbenzene		
95-50-1	1,2-Dichlorobenzene		
96-12-8	1,2-Dibromo-3-Chloropropane		
120-82-1	1,2,4-Trichlorobenzene		
87-68-3	Hexachlorobutadiene		
91-20-3	Naphthalene		
87-61-6	1,2,3-Trichlorobenzene		

1D-3

MODIFIED 524.2 VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix: water Lab Sample ID: _____

Sample volume: _____(mL) Lab File ID: _____

Dilution Factor: _____ Date Received: _____

Date Analyzed: _____

GC Column: _____ ID: _____(m) _____(mm) _____(µm)

Number TICs found: _____

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

1E

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix: (water/soil/waste) _____ Lab Sample ID: _____

Sample wt/vol: _____(g/mL)____ Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: _____(uL) Date Analyzed: _____

Injection Volume: _____(uL) Dilution Factor: _____

Sulfur Cleanup: (Y/N) ___ pH:____

Acid Cleanup: (Y/N)___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)_____	Q
12674-11-2	Aroclor-1016		
11104-28-2	Aroclor-1221		
11141-16-5	Aroclor-1232		
53469-21-9	Aroclor-1242		
12672-29-6	Aroclor-1248		
11097-69-1	Aroclor-1254		
11096-82-5	Aroclor-1260		
37324-23-5	Aroclor-1262		
11100-14-4	Aroclor-1268		

1F

WATER SOLUBLE ORGANICS - GC/NPD
ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix: (water/soil/waste) _____ Lab Sample ID: _____

Sample wt/vol: _____(g/mL)____ Lab File ID: _____

% Moisture: (not decanted) _____ Date Received: _____

Soil Extraction Volume: _____(mL) Date Prep/Extracted:_____

Injection Volume: _____(uL) Date Analyzed: _____

Dilution Factor: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)_____	Q
68-12-2	N,N-Dimethylformamide		
75-05-8	Acetonitrile		
51-79-6	Urethane		
623-78-9	Ethylurethane		
107-13-1	Acrylonitrile		

1G

WATER SOLUBLE ORGANICS - GC/FID ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix: (water/soil/waste) _____ Lab Sample ID: _____

Sample wt/vol: _____(g/mL)____ Lab File ID: _____

% Moisture: (not decanted) _____ Date Received: _____

Soil Extraction Volume: _____(mL) Date Prep/Extracted:_____

Injection Volume: _____(uL) Date Analyzed: _____

Dilution Factor: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)_____	Q
109-86-4	2-Methoxyethanol		
60-29-7	Diethyl Ether		
67-56-1	Methanol		
64-17-5	Ethanol		
71-23-8	N-Propanol		
107-21-1	Ethylene Glycol		
57-55-6	Propylene Glycol		
123-91-1	1,4-Dioxane		
67-68-5	Dimethyl Sulfoxide		

2A-1

WATER - VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

	EPA SAMPLE NO.	SMC1 (DCE) #	SMC2 (DCB) #	OTHER	TOT OUT
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

	QC LIMITS
SMC1 (DCE) = 1,2-Dichloroethane-d4	(80-120)
SMC2 (DCB) = 1,2-Dichlorobenzene-d4	(80-120)

Column to be used to flag recovery values
* Values outside of contract required QC limits

page __ of __

2A-2

SOIL - VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Level:(low/med) _____ Matrix (soil/waste)_____

	EPA SAMPLE NO.	SMC1 (DCE) #	SMC2 (DCB) #	OTHER	TOT OUT
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

	QC LIMITS
SMC1 (DCE) = 1,2-Dichloroethane-d4	(80-120)
SMC2 (DCB) = 1,2-Dichlorobenzene-d4	(80-120)

Column to be used to flag recovery values
* Values outside of contract required QC limits

page __ of __

2B-1
WATER - SEMIVOLATILE SURROGATE RECOVERY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

	QC LIMITS	
S1 (NBZ) = Nitrobenzene-d5	(35-114)	
S2 (FBP) = 2-Fluorobiphenyl	(43-116)	
S3 (TPH) = Terphenyl-d14	(33-141)	
S4 (PHL) = Phenol-d5	(10-110)	
S5 (2FP) = 2-Fluorophenol	(21-110)	
S6 (TBP) = 2,4,6-Tribromophenol	(10-123)	
S7 (2CP) = 2-Chlorophenol-d4	(33-110)	(advisory)
S8 (DCB) = 1,2-Dichlorobenzene-d4	(16-110)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

page __ of __

FORM II SV-1

2B-2
SOIL - SEMIVOLATILE SURROGATE RECOVERY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Level:(low/med)_____ Matrix (soil/waste)_____

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

	QC LIMITS	
S1 (NBZ) = Nitrobenzene-d5	(23-120)	
S2 (FBP) = 2-Fluorobiphenyl	(30-115)	
S3 (TPH) = Terphenyl-d14	(18-137)	
S4 (PHL) = Phenol-d5	(24-113)	
S5 (2FP) = 2-Fluorophenol	(25-121)	
S6 (TBP) = 2,4,6-Tribromophenol	(19-122)	
S7 (2CP) = 2-Chlorophenol-d4	(20-130)	(advisory)
S8 (DCB) = 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

page __ of __

FORM II SV-2

2C-1
WATER - PESTICIDE SURROGATE RECOVERY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

GC Column(1): _____ ID: _____(m) _____(mm) _____(µm)

GC Column(2): _____ ID: _____(m) _____(mm) _____(µm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

page __ of __

2C-2

SOIL - PESTICIDE SURROGATE RECOVERY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix (soil/waste)_____

GC Column(1): _____ ID: _____(m) _____(mm) _____(µm)

GC Column(2): _____ ID: _____(m) _____(mm) _____(µm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

page __ of __

2D
WATER - MODIFIED 524.2 VOLATILE
SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

	EPA SAMPLE NO.	SMC1 (DCE) #	SMC2 (DCB) #	OTHER	TOT OUT
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

	QC LIMITS
SMC1 (DCE) = 1,2-Dichloroethane-d4	(80-120)
SMC2 (DCB) = 1,2-Dichlorobenzene-d4	(80-120)

Column to be used to flag recovery values
* Values outside of contract required QC limits

page __ of __

2E-1
WATER - AROCLOR SURROGATE RECOVERY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

GC Column(1): _____ ID: _____(m) _____(mm) _____(µm)

GC Column(2): _____ ID: _____(m) _____(mm) _____(µm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

page __ of __

2E-2

SOIL - AROCLOR SURROGATE RECOVERY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix (soil/waste)_____

GC Column(1): _____ ID: _____(m) _____(mm) _____(µm)

GC Column(2): _____ ID: _____(m) _____(mm) _____(µm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

page __ of __

2F-1
WATER - WATER SOLUBLE ORGANICS - GC/NPD
SURROGATE RECOVERY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

GC Column(1): _____ ID: _____(m) _____(mm) _____(µm)

GC Column(2): _____ ID: _____(m) _____(mm) _____(µm)

	EPA SAMPLE NO.	DMA 1 %REC #	DMA 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

QC LIMITS

DMA = N,N-Dimethylacetamide (70-130)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

page __ of __

FORM II WSO/NPD-1

2F-2
SOIL - WATER SOLUBLE ORGANICS - GC/NPD
SURROGATE RECOVERY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Sample Matrix (soil/waste)_____

GC Column(1): _____ ID: _____(m) _____(mm) _____(µm)

GC Column(2): _____ ID: _____(m) _____(mm) _____(µm)

	EPA SAMPLE NO.	DMA 1 %REC #	DMA 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

QC LIMITS

DMA = N,N-Dimethylacetamide (70-130)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

page __ of __

FORM II WSO/NPD-2

2G-1
WATER - WATER SOLUBLE ORGANICS - GC/FID
SURROGATE RECOVERY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

GC Column(1): _____ ID: _____(m) _____(mm) _____(µm)

GC Column(2): _____ ID: _____(m) _____(mm) _____(µm)

	EPA SAMPLE NO.	2EE 1 %REC #	2EE 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

QC LIMITS

2EE = 2-Ethoxyethanol (70-130)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

page __ of __

FORM II WSO/FID-1

2G-2
SOIL - WATER SOLUBLE ORGANICS - GC/FID
SURROGATE RECOVERY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Sample Matrix (soil/waste)_____

GC Column(1): _____ ID: _____(m) _____(mm) _____(µm)

GC Column(2): _____ ID: _____(m) _____(mm) _____(µm)

	EPA SAMPLE NO.	2EE 1 %REC #	2EE 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

QC LIMITS

2EE = 2-Ethoxyethanol (70-130)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

page __ of __

FORM II WSO/FID-2

3A-1

WATER - VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No.: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Vinyl chloride					80-120
1,2-Dichloroethane					80-120
Carbon tetrachloride					80-120
1,2-Dichloropropane					80-120
Trichloroethene					80-120
1,1,2-Trichloroethane					80-120
Benzene					80-120
cis-1,3-Dichloropropene					80-120
Bromoform					80-120
Tetrachloroethene					80-120
1,2-Dibromoethane					80-120
1,4-Dichlorobenzene					80-120
2-Hexanone					80-120
Tetrahydrofuran					80-120

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Vinyl chloride					25	80-120
1,2-Dichloroethane					25	80-120
Carbon tetrachloride					25	80-120
1,2-Dichloropropane					25	80-120
Trichloroethene					25	80-120
1,1,2-Trichloroethane					25	80-120
Benzene					25	80-120
cis-1,3-Dichloropropene					25	80-120
Bromoform					25	80-120
Tetrachloroethene					25	80-120
1,2-Dibromoethane					25	80-120
1,4-Dichlorobenzene					25	80-120
2-Hexanone					25	80-120
Tetrahydrofuran					25	80-120

Column to be used to flag % Recovery and RPD values with an asterisk
* Values outside of QC limits

RPD:_____ out of _____ outside limits

Spike Recovery:_____ out of _____ outside limits

COMMENTS: _____

_____

FORM III VOA-1

SOIL - VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No.: _____

Level:(low/med) _____ Matrix (soil/waste)_____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC. LIMITS REC.
Vinyl chloride					80-120
1,2-Dichloroethane					80-120
Carbon tetrachloride					80-120
1,2-Dichloropropane					80-120
Trichloroethene					80-120
1,1,2-Trichloroethane					80-120
Benzene					80-120
cis-1,3-Dichloropropene					80-120
Bromoform					80-120
Tetrachloroethene					80-120
1,2-Dibromoethane					80-120
1,4-Dichlorobenzene					80-120
2-Hexanone					80-120
Tetrahydrofuran					80-120

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Vinyl chloride					25	80-120
1,2-Dichloroethane					25	80-120
Carbon tetrachloride					25	80-120
1,2-Dichloropropane					25	80-120
Trichloroethene					25	80-120
1,1,2-Trichloroethane					25	80-120
Benzene					25	80-120
cis-1,3-Dichloropropene					25	80-120
Bromoform					25	80-120
Tetrachloroethene					25	80-120
1,2-Dibromoethane					25	80-120
1,4-Dichlorobenzene					25	80-120
2-Hexanone					25	80-120
Tetrahydrofuran					25	80-120

Column to be used to flag % Recovery and RPD values with an asterisk
* Values outside of QC limits

RPD:_____ out of _____ outside limits

Spike Recovery:_____ out of _____ outside limits

COMMENTS: _____

_____

WATER - SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No.: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Phenol					12-110
2-Chlorophenol					27-123
1,4-Dichlorobenzene					36- 97
N-Nitroso-di-n-prop.(1)					41-116
1,2,4-Trichlorobenzene					39- 98
4-Chloro-3-methylphenol					23- 97
Acenaphthene					46-118
4-Nitrophenol					10- 80
2,4-Dinitrotoluene					24- 96
Pentachlorophenol					9-103
Pyrene					26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol					42	12-110
2-Chlorophenol					40	27-123
1,4-Dichlorobenzene					28	36- 97
N-Nitroso-di-n-prop.(1)					38	41-116
1,2,4-Trichlorobenzene					28	39- 98
4-Chloro-3-methylphenol					42	23- 97
Acenaphthene					31	46-118
4-Nitrophenol					50	10- 80
2,4-Dinitrotoluene					38	24- 96
Pentachlorophenol					50	9-103
Pyrene					31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag % Recovery and RPD values with an asterisk
* Values outside of QC limits

RPD:_____ out of _____ outside limits

Spike Recovery:_____ out of _____ outside limits

COMMENTS: _____

_____

SOIL - SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No.: _____

Level:(low/med) _____ Matrix (soil/waste)_____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol					26- 90
2-Chlorophenol					25-102
1,4-Dichlorobenzene					28-104
N-Nitroso-di-n-prop.(1)					41-126
1,2,4-Trichlorobenzene					38-107
4-Chloro-3-methylphenol					26-103
Acenaphthene					31-137
4-Nitrophenol					11-114
2,4-Dinitrotoluene					28- 89
Pentachlorophenol					17-109
Pyrene					35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol					35	26- 90
2-Chlorophenol					50	25-102
1,4-Dichlorobenzene					27	28-104
N-Nitroso-di-n-prop.(1)					38	41-126
1,2,4-Trichlorobenzene					23	38-107
4-Chloro-3-methylphenol					33	26-103
Acenaphthene					19	31-137
4-Nitrophenol					50	11-114
2,4-Dinitrotoluene					47	28- 89
Pentachlorophenol					47	17-109
Pyrene					36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag % Recovery and RPD values with an asterisk
* Values outside of QC limits

RPD:_____ out of _____ outside limits

Spike Recovery:_____ out of _____ outside limits

COMMENTS: _____

_____

3C-1

WATER - PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No.: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)					56-123
Heptachlor					40-131
Aldrin					40-120
Dieldrin					52-126
Endrin					56-121
4,4'-DDT					38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)					15	56-123
Heptachlor					20	40-131
Aldrin					22	40-120
Dieldrin					18	52-126
Endrin					21	56-121
4,4'-DDT					27	38-127

Column to be used to flag % Recovery and RPD values with an asterisk
* Values outside of QC limits

RPD:_____ out of _____ outside limits

Spike Recovery:_____ out of _____ outside limits

COMMENTS: _____

_____

SOIL - PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No.: _____

Matrix (soil/waste)_____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)					46-127
Heptachlor					35-130
Aldrin					34-132
Dieldrin					31-134
Endrin					42-139
4,4'-DDT					23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)					50	46-127
Heptachlor					31	35-130
Aldrin					43	34-132
Dieldrin					38	31-134
Endrin					45	42-139
4,4'-DDT					50	23-134

Column to be used to flag % Recovery and RPD values with an asterisk
* Values outside of QC limits

RPD:_____ out of _____ outside limits

Spike Recovery:_____ out of _____ outside limits

COMMENTS: _____
_____

3D
WATER - MODIFIED 524.2 VOLATILE
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No.: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Vinyl chloride					80-120
1,2-Dichloroethane					80-120
Carbon tetrachloride					80-120
1,2-Dichloropropane					80-120
Trichloroethene					80-120
1,1,2-Trichloroethane					80-120
Benzene					80-120
cis-1,3-Dichloropropene					80-120
Bromoform					80-120
Tetrachloroethene					80-120
1,2-Dibromoethane					80-120
1,4-Dichlorobenzene					80-120
2-Hexanone					80-120
Tetrahydrofuran					80-120

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Vinyl chloride					20	80-120
1,2-Dichloroethane					20	80-120
Carbon tetrachloride					20	80-120
1,2-Dichloropropane					20	80-120
Trichloroethene					20	80-120
1,1,2-Trichloroethane					20	80-120
Benzene					20	80-120
cis-1,3-Dichloropropene					20	80-120
Bromoform					20	80-120
Tetrachloroethene					20	80-120
1,2-Dibromoethane					20	80-120
1,4-Dichlorobenzene					20	80-120
2-Hexanone					20	80-120
Tetrahydrofuran					20	80-120

Column to be used to flag % Recovery and RPD values with an asterisk
* Values outside of QC limits

RPD:_____ out of _____ outside limits

Spike Recovery:_____ out of _____ outside limits

COMMENTS: _____
_____

3E-1

WATER - AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No.: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Aroclor 1254					50-150
Other:					50-150

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	RPD # (%)	QC LIMITS RPD	QC LIMITS REC.
Aroclor1254					25	50-150
Other:					25	50-150

Column to be used to flag % Recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

_____

FORM III PCB-1

SOIL - AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No.: _____

Matrix (soil/waste)_____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Aroclor1254 _____	_____	_____	_____	_____	50-150
Other: _____	_____	_____	_____	_____	50-150

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	RPD # (%)	QC LIMITS RPD	QC LIMITS REC.
Aroclor1254_____	_____	_____	_____	_____	40	50-150
Other:_____	_____	_____	_____	_____	40	50-150

Column to be used to flag % Recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____
_____

3F-1
WATER - WATER SOLUBLE ORGANICS - GC/NPD
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No.: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC. LIMITS REC.
N,N-Dimethylformamide					60-140
Acetonitrile					60-140
Other:					60-140
Other:					60-140

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	RPD (%)	QC LIMITS RPD	QC LIMITS REC.
N,N-Dimethylformamide					30	60-140
Acetonitrile					30	60-140
Other:					30	60-140
Other:					30	60-140

Column to be used to flag % Recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____
_____

3F-2
SOIL - WATER SOLUBLE ORGANICS - GC/NPD
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No.: _____

Matrix (soil/waste)_____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC. LIMITS REC.
N,N-Dimethylformamide					60-140
Acetonitrile					60-140
Other:					60-140
Other:					60-140

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	RPD (%)	QC LIMITS RPD	QC LIMITS REC.
N,N-Dimethylformamide					30	60-140
Acetonitrile					30	60-140
Other:					30	60-140
Other:					30	60-140

Column to be used to flag % Recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____
_____

3G-1
WATER - WATER SOLUBLE ORGANICS - GC/FID
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No.: _____

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC. LIMITS REC.
2-Methoxyethanol					60-140
n-Propanol					60-140
Ethylene Glycol					60-140
Other:					60-140
Other:					60-140
Other:					60-140

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	RPD (%)	QC LIMITS RPD	QC LIMITS REC.
2-Methoxyethanol					30	60-140
n-Propanol					30	60-140
Ethylene Glycol					30	60-140
Other:					30	60-140
Other:					30	60-140
Other:					30	60-140

Column to be used to flag % Recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____
_____

3G-2
SOIL - WATER SOLUBLE ORGANICS - GC/FID
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No.: _____

Matrix (soil/waste)_____

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC. LIMITS REC.
2-Methoxyethanol_____	_____	_____	_____	_____	60-140
n-Propanol_____	_____	_____	_____	_____	60-140
Ethylene Glycol_____	_____	_____	_____	_____	60-140
Other:_____	_____	_____	_____	_____	60-140
Other:_____	_____	_____	_____	_____	60-140
Other:_____	_____	_____	_____	_____	60-140

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	RPD (%)	QC LIMITS RPD	QC LIMITS REC.
2-Methoxyethanol_____	_____	_____	_____	_____	30	60-140
n-Propanol_____	_____	_____	_____	_____	30	60-140
Ethylene Glycol_____	_____	_____	_____	_____	30	60-140
Other:_____	_____	_____	_____	_____	30	60-140
Other:_____	_____	_____	_____	_____	30	60-140
Other:_____	_____	_____	_____	_____	30	60-140

Column to be used to flag % Recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____
_____

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Lab Sample ID: _____ Lab File ID: _____

Date Analyzed: _____ Time Analyzed: _____

Instrument ID: _____ Heated Purge: (Y/N) ___

GC Column: _____ ID: _____(m) _____(mm) _____(µm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

_____

page __ of __

4B

EPA SAMPLE NO.

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Lab Sample ID: _____ Lab File ID: _____

Instrument ID: _____ Date Extracted:_____

Matrix: (water/soil/waste) _____ Date Analyzed: _____

Level:(low/med) _____ Time Analyzed: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

_____

page __ of __

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Lab Sample ID: _____ Lab File ID: _____

Matrix: (water/soil/waste) _____ Sulfur Cleanup: (Y/N) _____

GPC Cleanup: _____ Aroclor Acid Cleanup: (Y/N) _____

Extraction:(SepF/Cont/Sonc) _____ Date Extracted: _____

Date Analyzed (1): _____ Date Analyzed (2): _____

Time Analyzed (1): _____ Time Analyzed (2): _____

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): _____ ID: _____(m) _____(mm) _____(µm)

GC Column (2): _____ ID: _____(m) _____(mm) _____(µm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

_____

page __ of __

4D
MODIFIED 524.2 VOLATILE
METHOD BLANK SUMMARY

EPA SAMPLE NO.
_____

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Lab Sample ID: _____ Lab File ID: _____

Date Analyzed: _____ Time Analyzed: _____

Instrument ID: _____

GC Column: _____ ID: _____(m) _____(mm) _____(µm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

_____

page __ of __

4E

EPA SAMPLE NO.

AROCLOR METHOD BLANK SUMMARY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Lab Sample ID: _____ Lab File ID: _____

Matrix: (water/soil/waste) _____ Sulfur Cleanup: (Y/N) _____

Extraction:(SepF/Cont/Sonc) _____ Date Extracted: _____

Date Analyzed (1): _____ Date Analyzed (2): _____

Time Analyzed (1): _____ Time Analyzed (2): _____

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): _____ ID: _____(m) _____(mm) _____(µm)

GC Column (2): _____ ID: _____(m) _____(mm) _____(µm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

_____

FORM IV PCB

4F

WATER SOLUBLE ORGANICS - GC/NPD
METHOD BLANK SUMMARY

EPA SAMPLE NO.
_____

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Lab Sample ID: _____ Lab File ID: _____

Matrix: (water/soil/waste) _____ Date Prep/Extracted: _____

Date Analyzed (1): _____ Date Analyzed (2): _____

Time Analyzed (1): _____ Time Analyzed (2): _____

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): _____ ID: _____(m) _____(mm) _____(µm)

GC Column (2): _____ ID: _____(m) _____(mm) _____(µm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

_____

page __ of __

4G

WATER SOLUBLE ORGANICS - GC/FID
METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Lab Sample ID: _____ Lab File ID: _____

Matrix: (water/soil/waste) _____ Date Prep/Extracted: _____

Date Analyzed (1): _____ Date Analyzed (2): _____

Time Analyzed (1): _____ Time Analyzed (2): _____

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): _____ ID: _____(m) _____(mm) _____(µm)

GC Column (2): _____ ID: _____(m) _____(mm) _____(µm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

_____

page __ of __

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Lab File ID: _____ BFB Injection Date:_____

Instrument ID: _____ BFB Injection Time:_____

Heated Purge: (Y/N) ___

GC Column: _____ ID: _____(m) _____(mm) _____(µm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	
75	30.0 - 66.0% of mass 95	
95	Base peak, 100% relative abundance	
96	5.0 - 9.0% of mass 95	
173	Less than 2.0% of mass 174	( )1
174	50.0 - 120.0% of mass 95	
175	4.0 - 9.0 % of mass 174	( )1
176	93.0 - 101.0% of mass 174	( )1
177	5.0 - 9.0% of mass 176	( )2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

page __ of __

FORM V VOA

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Lab File ID: _____ DFTPP Injection Date:_____

Instrument ID: _____ DFTPP Injection Time:_____

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	
68	Less than 2.0% of mass 69	( )1
69	Mass 69 relative abundance	
70	Less than 2.0% of mass 69	( )1
127	25.0 - 75.0% of mass 198	
197	Less than 1.0% of mass 198	
198	Base Peak, 100% relative abundance	
199	5.0 to 9.0% of mass 198	
275	10.0 - 30.0% of mass 198	
365	Greater than 0.75% of mass 198	
441	Present, but less than mass 443	
442	40.0 - 110.0% of mass 198	
443	15.0 - 24.0% of mass 442	( )2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

page __ of __

5D

MODIFIED 524.2 VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Lab File ID: _____ BFB Injection Date:_____

Instrument ID: _____ BFB Injection Time:_____

GC Column: _____ ID: _____(m)_____(mm) _____(µm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	
75	30.0 - 66.0% of mass 95	
95	Base peak, 100% relative abundance	
96	5.0 - 9.0% of mass 95	
173	Less than 2.0% of mass 174	( )1
174	50.0 - 120.0% of mass 95	
175	4.0 - 9.0 % of mass 174	( )1
176	93.0 - 101.0% of mass 174	( )1
177	5.0 - 9.0% of mass 176	( )2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

page __ of __

6A-1

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Calibration Date(s):_____ _____

Heated Purge: (Y/N) ___ Calibration Times: _____ _____

GC Column: _____ ID: _____(m) _____(mm) _____(µm)

LAB FILE ID: RRF10 =_____ RRF20 =_____
RRF50 =_____ RRF100=_____ RRF200=_____

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Dichlorodifluoromethane							
Chloromethane							
Vinyl Chloride							
Bromomethane							
Chloroethane							
Trichlorofluoromethane							
1,1-Dichloroethene							
Acetone							
Carbon Disulfide							
Methylene Chloride							
trans-1,2-Dichloroethene							
1,1-Dichloroethane							
2,2-Dichloropropane							
2-Butanone							
cis-1,2-Dichloroethene							
Chloroform							
Bromochloromethane							
1,1,1-Trichloroethane							
1,1-Dichloropropene							
Carbon Tetrachloride							
Benzene							
1,2-Dichloroethane							
Trichloroethene							
1,2-Dichloropropane							
Bromodichloromethane							
Dibromomethane							
4-Methyl-2-Pentanone							
trans-1,3-Dichloropropene							
Toluene							
cis-1,3-Dichloropropene							
1,1,2-Trichloroethane							
2-Hexanone							

6A-2

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Calibration Date(s):_____ _____

Heated Purge: (Y/N) ___ Calibration Times: _____ _____

GC Column: _____ ID: _____(m) _____(mm) _____(µm)

LAB FILE ID: RRF10 =_____ RRF20 =_____
RRF50 =_____ RRF100=_____ RRF200=_____

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Tetrachloroethene							
1,4-Dioxane							
Tetrahydrofuran							
1,3-Dichloropropane							
Dibromochloromethane							
Bromoform							
Isopropylbenzene							
1,2-Dibromoethane							
Chlorobenzene							
Ethylbenzene							
1,1,1,2-Tetrachloroethane							
1,1,2,2-Tetrachloroethane							
Xylene (total)							
Styrene							
Bromobenzene							
N-Propylbenzene							
1,2,3-Trichloropropane							
2-Chlorotoluene							
1,3,5-Trimethylbenzene							
4-Chlorotoluene							
tert-Butylbenzene							
1,2,4-Trimethylbenzene							
sec-Butylbenzene							
4-Isopropyltoluene							
1,3-Dichlorobenzene							
1,4-Dichlorobenzene							
N-Butylbenzene							
1,2-Dichlorobenzene							
1,2-Dibromo-3-Chloropropane							
1,2,4-Trichlorobenzene							
Hexachlorobutadiene							
Naphthalene							
1,2,3-trichlorobenzene							
1,2-Dichlorobenzene-d4							
1,2-Dichloroethane-d4							

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Calibration Date(s):_____ _____

Calibration Times: _____ _____

LAB FILE ID: RRF20 =_____ RRF50 =_____
RRF80 =_____ RRF120=_____ RRF160=_____

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	___ RRF	% RSD
Phenol							
bis(2-Chloroethyl)ether							
2-Chlorophenol							
1,3-Dichlorobenzene							
1,4-Dichlorobenzene							
1,2-Dichlorobenzene							
2-Methylphenol							
2,2'-oxybis(1-Chloropropane)							
4-Methylphenol							
N-Nitroso-di-n-propylamine							
Hexachloroethane							
Nitrobenzene							
Isophorone							
2-Nitrophenol							
2,4-Dimethylphenol							
bis(2-Chloroethoxy)methane							
2,4-Dichlorophenol							
1,2,4-Trichlorobenzene							
Naphthalene							
4-Chloroaniline							
Hexachlorobutadiene							
4-Chloro-3-methylphenol							
2-Methylnaphthalene							
Hexachlorocyclopentadiene							
2,4,6-Trichlorophenol							
2,4,5-Trichlorophenol							
2-Chloronaphthalene							
2-Nitroaniline							
Dimethylphthalate							
Acenaphthylene							
2,6-Dinitrotoluene							
3-Nitroaniline							
Acenaphthene							
2,4-Dinitrophenol							
4-Nitrophenol							
Dibenzofuran							
2,4-Dinitrotoluene							

6B-2

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Calibration Date(s):_____ _____

Calibration Times: _____ _____

LAB FILE ID: RRF20 =_____ RRF50 =_____

RRF80 =_____ RRF120=_____ RRF160=_____

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	___ RRF	% RSD
Diethylphthalate							
4-Chlorophenyl-phenylether							
Fluorene							
4-Nitroaniline							
4,6-Dinitro-2-methylphenol							
N-Nitrosodiphenylamine (1)							
4-Bromophenyl-phenylether							
Hexachlorobenzene							
Pentachlorophenol							
Phenanthrene							
Anthracene							
Carbazole							
Di-n-butylphthalate							
Fluoranthene							
Pyrene							
Butylbenzylphthalate							
3,3'-Dichlorobenzidine							
Benzo(a)anthracene							
Chrysene							
bis(2-Ethylhexyl)phthalate							
Di-n-octylphthalate							
Benzo(b)fluoranthene							
Benzo(k)fluoranthene							
Benzo(a)pyrene							
Indeno(1,2,3-cd)pyrene							
Dibenz(a,h)anthracene							
Benzo(g,h,i)perylene							
Nitrobenzene-d5							
2-Fluorobiphenyl							
Terphenyl-d14							
Phenol-d5							
2-Fluorophenol							
2,4,6-Tribromophenol							
2-Chlorophenol-d4							
1,2-Dichlorobenzene-d4							

(1) Cannot be separated from Diphenylamine

6C-1

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Date(s) Analyzed: _____ _____

Level (x low): low _____ mid _____ high _____

GC Column (1,2) ___ : _____ ID: _____(m) _____(mm) _____(µm)

Lab File ID: Individual Mix A Individual Mix B

Low _____ Low _____
Mid _____ Mid _____
High _____ High _____

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC						
beta-BHC						
delta-BHC						
gamma-BHC (Lindane)						
Heptachlor						
Aldrin						
Heptachlor epoxide						
Endosulfan I						
Dieldrin						
4,4'-DDE						
Endrin						
Endosulfan II						
4,4'-DDD						
Endosulfan sulfate						
4,4'-DDT						
Methoxychlor						
Endrin ketone						
Endrin aldehyde						
alpha-Chlordane						
gamma-Chlordane						
Tetrachloro-m-xylene						
Decachlorobiphenyl						

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are ±0.05 minutes for all compounds that elute before Heptachlor epoxide, ±0.07 minutes for all other compounds, except ±0.10 minutes for Decachlorobiphenyl.

6C-2

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Date(s) Analyzed: _____ _____

Level (x low): low _____ mid _____ high _____

GC Column (1,2) ___ : _____ ID: _____(m) _____(mm) _____(µm)

Lab File ID: Individual Mix A Individual Mix B

Low _____ Low _____
Mid _____ Mid _____
High _____ High _____

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC					
beta-BHC					
delta-BHC					
gamma-BHC (Lindane)					
Heptachlor					
Aldrin					
Heptachlor epoxide					
Endosulfan I					
Dieldrin					
4,4'-DDE					
Endrin					
Endosulfan II					
4,4'-DDD					
Endosulfan sulfate					
4,4'-DDT					
Methoxychlor					
Endrin ketone					
Endrin aldehyde					
alpha-Chlordane					
gamma-Chlordane					
Tetrachloro-m-xylene					
Decachlorobiphenyl					

* Surrogate calibration factors are measured from Standard Mix A analyses.

6C-3

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Date(s) Analyzed: _____ _____

GC Column (1,2) ___ : _____ ID: _____(m) _____(mm) _____(µm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	_____	*1	_____	_____	_____	_____
		*2	_____	_____	_____	_____
Lab File ID: _____		*3	_____	_____	_____	_____
		4	_____	_____	_____	_____
		5	_____	_____	_____	_____
Aroclor 1016	_____	*1	_____	_____	_____	_____
		*2	_____	_____	_____	_____
Lab File ID: _____		*3	_____	_____	_____	_____
		4	_____	_____	_____	_____
		5	_____	_____	_____	_____
Aroclor 1221	_____	*1	_____	_____	_____	_____
		*2	_____	_____	_____	_____
Lab File ID: _____		*3	_____	_____	_____	_____
		4	_____	_____	_____	_____
		5	_____	_____	_____	_____
Aroclor 1232	_____	*1	_____	_____	_____	_____
		*2	_____	_____	_____	_____
Lab File ID: _____		*3	_____	_____	_____	_____
		4	_____	_____	_____	_____
		5	_____	_____	_____	_____
Aroclor 1242	_____	*1	_____	_____	_____	_____
		*2	_____	_____	_____	_____
Lab File ID: _____		*3	_____	_____	_____	_____
		4	_____	_____	_____	_____
		5	_____	_____	_____	_____
Aroclor 1248	_____	*1	_____	_____	_____	_____
		*2	_____	_____	_____	_____
Lab File ID: _____		*3	_____	_____	_____	_____
		4	_____	_____	_____	_____
		5	_____	_____	_____	_____
Aroclor 1254	_____	*1	_____	_____	_____	_____
		*2	_____	_____	_____	_____
Lab File ID: _____		*3	_____	_____	_____	_____
		4	_____	_____	_____	_____
		5	_____	_____	_____	_____
Aroclor 1260	_____	*1	_____	_____	_____	_____
		*2	_____	_____	_____	_____
Lab File ID: _____		*3	_____	_____	_____	_____
		4	_____	_____	_____	_____
		5	_____	_____	_____	_____

* Denotes required peaks

6C-4

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Date(s) Analyzed: _____ _____

GC Column (1,2) ___ : _____ ID: _____(m) _____(mm) _____(µm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor 1262	_____	*1	_____	_____	_____	_____
		*2	_____	_____	_____	_____
Lab File ID: _____		*3	_____	_____	_____	_____
		4	_____	_____	_____	_____
		5	_____	_____	_____	_____
Aroclor 1068	_____	*1	_____	_____	_____	_____
		*2	_____	_____	_____	_____
Lab File ID: _____		*3	_____	_____	_____	_____
		4	_____	_____	_____	_____
		5	_____	_____	_____	_____

* Denotes required peaks

6C-5

PESTICIDE ANALYTE RESOLUTION SUMMARY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID (1): _____ EPA Sample No. (Standard 1): _____

Lab File ID (1): _____ Lab Sample ID (1): _____

Date Analyzed (1): _____ Time Analyzed (1): _____

GC Column (1): _____ ID:_____(m) _____(mm) _____(µm)

	ANALYTE	RT	RESOLUTION (%)
1			
2			
3			
4			
5			
6			
7			
8			
9			

Instrument ID (2): _____ EPA Sample No. (Standard 2): _____

Lab File ID: _____ Lab Sample ID (2): _____

Date Analyzed (2): _____ Time Analyzed (2): _____

GC Column (2): _____ ID:_____(m) _____(mm) _____(µm)

	ANALYTE	RT	RESOLUTION (%)
1			
2			
3			
4			
5			
6			
7			
8			
9			

6C-6
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID (1): _____ EPA Sample No. (Standard 1): _____

Lab File ID: _____ Lab Sample ID (1): _____

Date Analyzed (1): _____ Time Analyzed (1): _____

GC Column (1): _____ ID:_____(m) _____(mm) _____(µm)

	ANALYTE	RT	RESOLUTION (%)
1			
2			
3			
4			
5			
6			
7			
8			

Instrument ID (2): _____ EPA Sample No. (Standard 2): _____

Lab File ID: _____ Lab Sample ID (2): _____

Date Analyzed (2): _____ Time Analyzed (2): _____

GC Column (2): _____ ID:_____(m) _____(mm) _____(µm)

	ANALYTE	RT	RESOLUTION (%)
1			
2			
3			
4			
5			
6			
7			
8			

6C-7
INDIVIDUAL STANDARD MIXTURE A

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID (1): _____ EPA Sample No. (Standard 1): _____

Lab File ID: _____ Lab Sample ID (1): _____

Date Analyzed (1): _____ Time Analyzed (1): _____

GC Column (1): _____ ID:_____(m) _____(mm) _____(µm)

	ANALYTE	RT	RESOLUTION (%)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			

Instrument ID (2): _____ EPA Sample No. (Standard 2): _____

Lab File ID: _____ Lab Sample ID (2): _____

Date Analyzed (2): _____ Time Analyzed (2): _____

GC Column (2): _____ ID:_____(m) _____(mm) _____(µm)

	ANALYTE	RT	RESOLUTION (%)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			

6C-8
INDIVIDUAL STANDARD MIXTURE B

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID (1): _____ EPA Sample No. (Standard 1): _____

Lab File ID: _____ Lab Sample ID (1): _____

Date Analyzed (1): _____ Time Analyzed (1): _____

GC Column (1): _____ ID:_____(m) _____(mm) _____(µm)

	ANALYTE	RT	RESOLUTION (%)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			

Instrument ID (2): _____ EPA Sample No. (Standard 2): _____

Lab File ID: _____ Lab Sample ID (2): _____

Date Analyzed (2): _____ Time Analyzed (2): _____

GC Column (2): _____ ID:_____(m) _____(mm) _____(µm)

	ANALYTE	RT	RESOLUTION (%)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			

MODIFIED 524.2 VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Calibration Date(s):_____ _____

Calibration Times: _____ _____

GC Column: _____ ID: _____(m) _____(mm) _____(µm)

LAB FILE ID: RRF 2 =_____ RRF 5 =_____
RRF 10 =_____ RRF 25 =_____ RRF 50 =_____

	COMPOUND	RRF 2	RRF 5	RRF 10	RRF 25	RRF 50	___ RRF	% RSD
	Dichlorodifluoromethane							
	Chloromethane							
	Vinyl Chloride							
	Bromomethane							
	Chloroethane							
	Trichlorofluoromethane							
	1,1-Dichloroethene							
#	Acetone							
	Carbon Disulfide							
	Methylene Chloride							
	trans-1,2-Dichloroethene							
	1,1-Dichloroethane							
	2,2-Dichloropropane							
#	2-Butanone							
	cis-1,2-Dichloroethene							
	Chloroform							
	Bromochloromethane							
	1,1,1-Trichloroethane							
	1,1-Dichloropropene							
	Carbon Tetrachloride							
	Benzene							
	1,2-Dichloroethane							
	Trichloroethene							
	1,2-Dichloropropane							
	Bromodichloromethane							
	Dibromomethane							
#	4-Methyl-2-Pentanone							
	trans-1,3-Dichloropropene							
	Toluene							
	cis-1,3-Dichloropropene							
	1,1,2-Trichloroethane							
#	2-Hexanone							

= Alternate Initial Calibration Series = 5.0, 10, 25, 50, 100 µg/L.

6D-2

MODIFIED 524.2 VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Calibration Date(s):_____ _____

Calibration Times: _____ _____

GC Column: _____ ID: _____(m) _____(mm) _____(µm)

LAB FILE ID: RRF 2 =_____ RRF 5 =_____

RRF 10 =_____ RRF 25 =_____ RRF 50 =_____

	COMPOUND	RRF 2	RRF 5	RRF 10	RRF 25	RRF 50	___ RRF	% RSD
	Tetrachloroethene							
+	1,4-Dioxane							
+	Tetrahydrofuran							
	1,3-Dichloropropane							
	Dibromochloromethane							
	Bromoform							
	Isopropylbenzene							
	1,2-Dibromoethane							
	Chlorobenzene							
	Ethylbenzene							
	1,1,1,2-Tetrachloroethane							
	1,1,2,2-Tetrachloroethane							
	Xylene (total)							
	Styrene							
	Bromobenzene							
	N-Propylbenzene							
	1,2,3-Trichloropropane							
	2-Chlorotoluene							
	1,3,5-Trimethylbenzene							
	4-Chlorotoluene							
	tert-Butylbenzene							
	1,2,4-Trimethylbenzene							
	sec-Butylbenzene							
	4-Isopropyltoluene							
	1,3-Dichlorobenzene							
	1,4-Dichlorobenzene							
	N-Butylbenzene							
	1,2-Dichlorobenzene							
	1,2-Dibromo-3-Chloropropane							
	1,2,4-Trichlorobenzene							
	Hexachlorobutadiene							
	Naphthalene							
	1,2,3-trichlorobenzene							
	1,2-Dichloroethane-d4							
	1,2-Dichlorobenzene-d4							

+ = Altenate Initial Calibration Series = 50, 100, 250, 500, 1000 µg/L.

6E-1

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Date(s) Analyzed: _____ _____

GC Column (1,2) ___ : _____ ID: _____(m) _____(mm) _____(µm)

Level (x low): low _____ mid _____ high _____

COMPOUND Lab File IDs	PEAK	RT OF STANDARDS LOW	MID	HIGH	MEAN STD RT	RT WINDOW FROM	TO
Aroclor 1016	*1						
Low _____	*2						
Mid _____	*3						
High _____	4						
	5						
Aroclor 1221	*1						
Low _____	*2						
Mid _____	*3						
High _____	4						
	5						
Aroclor 1232	*1						
Low _____	*2						
Mid _____	*3						
High _____	4						
	5						
Aroclor 1242	*1						
Low _____	*2						
Mid _____	*3						
High _____	4						
	5						
Aroclor 1248	*1						
Low _____	*2						
Mid _____	*3						
High _____	4						
	5						
Aroclor 1254	*1						
Low _____	*2						
Mid _____	*3						
High _____	4						
	5						
Aroclor 1260	*1						
Low _____	*2						
Mid _____	*3						
High _____	4						
	5						
Aroclor 1262	*1						
Low _____	*2						
Mid _____	*3						
High _____	4						
	5						
Aroclor 1268	*1						
Low _____	*2						
Mid _____	*3						
High _____	4						
	5						
Tetrachloro-m-xylene___	*						
Decachlorobiphenyl_____	*						

* = Denotes required peaks

6E-2

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Date(s) Analyzed: _____ _____

GC Column (1,2) ___ : _____ ID: _____(m) _____(mm) _____(µm)

Level (x low): low _____ mid _____ high _____

Concentration Units: (ug/L)

COMPOUND	PEAK	LOW STD CONC.	CALIBRATION FACTORS (CF) LOW	MID	HIGH	MEAN CF	%RSD
Aroclor 1016	*1						
	*2						
	*3						
	4						
	5						
Aroclor 1221	*1						
	*2						
	*3						
	4						
	5						
Aroclor 1232	*1						
	*2						
	*3						
	4						
	5						
Aroclor 1242	*1						
	*2						
	*3						
	4						
	5						
Aroclor 1248	*1						
	*2						
	*3						
	4						
	5						
Aroclor 1254	*1						
	*2						
	*3						
	4						
	5						
Aroclor 1260	*1						
	*2						
	*3						
	4						
	5						
Aroclor 1262	*1						
	*2						
	*3						
	4						
	5						
Aroclor 1268	*1						
	*2						
	*3						
	4						
	5						
Tetrachloro-m-xylene	*						
Decachlorobiphenyl	*						

* = Denotes required peaks

FORM VI PCB-2

6E-3

AROCLOR MID POINT STANDARD RESOLUTION SUMMARY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____

GC Column (1,2) ___ : _____ ID: _____(m) _____(mm) _____(µm)

	PEAK	RT	RESOLUTION LEFT (%)	RESOLUTION RIGHT (%)
Aroclor 1016	*1			
	*2			
Lab File ID: _____	*3			
	4			
	5			
Aroclor 1221	*1			
	*2			
Lab File ID: _____	*3			
	4			
	5			
Aroclor 1232	*1			
	*2			
Lab File ID: _____	*3			
	4			
	5			
Aroclor 1242	*1			
	*2			
Lab File ID: _____	*3			
	4			
	5			
Aroclor 1248	*1			
	*2			
Lab File ID: _____	*3			
	4			
	5			
Aroclor 1254	*1			
	*2			
Lab File ID: _____	*3			
	4			
	5			
Aroclor 1260	*1			
	*2			
Lab File ID: _____	*3			
	4			
	5			
Aroclor 1262	*1			
	*2			
Lab File ID: _____	*3			
	4			
	5			
Aroclor 1268	*1			
	*2			
Lab File ID: _____	*3			
	4			
	5			

* = Denotes required peaks

6F-1
WATER SOLUBLE ORGANICS - GC/NPD
INITIAL CALIBRATION

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Date(s) Analyzed: _____ _____

GC Column (1,2) ___ : _____ ID: _____(m) _____(mm) _____(µm)

Level (x low): low _____ mid _____ high _____

Lab File ID: Low =_____ Mid =_____ High =_____

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN STD RT	RT WINDOW FROM	TO
N,N-Dimethyformamide						
Acetonitrile						
Urethane						
Ethylurethane						
Acrylontrile						
N,N-Dimethylacetamide						

Concentration Units: (ug/L)

COMPOUND	LOW STD CONC.	CALIBRATION FACTORS (CF) LOW	MID	HIGH	MEAN CF	%RSD
N,N-Dimethylformamide						
Acetonitrile						
Urethane						
Ethylurethane						
Acrylonitrile						
N,N-Dimethylacetamide						

6F-2
WATER SOLUBLE ORGANICS - GC/NPD
MID POINT STANDARD RESOLUTION SUMMARY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID (1): _____ EPA Sample No. (Standard 1): _____

Lab File ID: _____ Lab Sample ID (1): _____

Date Analyzed (1): _____ Time Analyzed (1): _____

GC Column (1): _____ ID:_____(m) _____(mm) _____(µm)

	ANALYTE	RT	RESOLUTION (%)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Instrument ID (2): _____ EPA Sample No. (Standard 2): _____

Lab File ID: _____ Lab Sample ID (2): _____

Date Analyzed (2): _____ Time Analyzed (2): _____

GC Column (2): _____ ID:_____(m) _____(mm) _____(µm)

	ANALYTE	RT	RESOLUTION (%)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

6G-1
WATER SOLUBLE ORGANICS - GC/FID
INITIAL CALIBRATION

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Date(s) Analyzed: _____ _____

Level (x low): low _____ mid _____ high _____

GC Column (1,2) ___ : _____ ID: _____(m) _____(mm) _____(µm)

Level (x low): low _____ mid _____ high _____

Lab File ID: Low =_____ Mid =_____ High =_____

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN STD RT	RT WINDOW FROM	TO
2-Methoxyethanol						
Diethyl Ether						
Methanol						
Ethanol						
N-Propanol						
Ethylene Glycol						
Propylene Glycol						
1,4-Dioxane						
Dimethyl Sulfoxide						
2-Ethoxyethanol						

Concentration Units: (mg/L)

COMPOUND	LOW STD CONC.	CALIBRATION FACTORS (CF) LOW	MID	HIGH	MEAN CF	%RSD
2-Methoxyethanol						
Diethyl Ether						
Methanol						
Ethanol						
N-Propanol						
Ethylene Glycol						
Propylene Glycol						
1,4-Dioxane						
Dimethyl Sufoxide						
2-Ethoxyethanol						

6G-2
WATER SOLUBLE ORGANICS - GC/FID
MID POINT STANDARD RESOLUTION SUMMARY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID (1): _____ EPA Sample No. (Standard 1): _____

Lab File ID: _____ Lab Sample ID (1): _____

Date Analyzed (1): _____ Time Analyzed (1): _____

GC Column (1): _____ ID:_____(m) _____(mm) _____(µm)

	ANALYTE	RT	RESOLUTION (%)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Instrument ID (2): _____ EPA Sample No. (Standard 2): _____

Lab File ID: _____ Lab Sample ID (2): _____

Date Analyzed (2): _____ Time Analyzed (2): _____

GC Column (2): _____ ID:_____(m) _____(mm) _____(µm)

	ANALYTE	RT	RESOLUTION (%)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

7A-1
VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Verification Date:_____ Time:_____

Lab File ID: _____ Init. Calib. Date(s):_____ _____

Heated Purge: (Y/N) ___ Init. Calib. Times: _____ _____

GC Column: _____ ID: _____(m) _____(mm) _____(µm)

COMPOUND	___ RRF	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane			0.050		30.0
Chloromethane			0.050		30.0
Vinyl Chloride			0.050		30.0
Bromomethane			0.050		30.0
Chloroethane			0.050		30.0
Trichlorofluoromethane			0.050		30.0
1,1-Dichloroethene			0.050		30.0
Acetone			0.020		30.0
Carbon Disulfide			0.050		30.0
Methylene Chloride			0.050		30.0
trans-1,2-Dichloroethene			0.050		30.0
1,1-Dichloroethane			0.050		30.0
2,2-Dichloropropane			0.050		30.0
2-Butanone			0.020		30.0
cis-1,2-Dichloroethene			0.050		30.0
Chloroform			0.050		30.0
Bromochloromethane			0.020		30.0
1,1,1-Trichloroethane			0.050		30.0
1,1-Dichloropropene			0.050		30.0
Carbon Tetrachloride			0.050		30.0
Benzene			0.050		30.0
1,2-Dichloroethane			0.050		30.0
Trichloroethene			0.050		30.0
1,2-Dichloropropane			0.050		30.0
Bromodichloromethane			0.050		30.0
Dibromomethane			0.020		30.0
4-Methyl-2-Pentanone			0.020		30.0
trans-1,3-Dichloropropene			0.050		30.0
Toluene			0.050		30.0
cis-1,3-Dichloropropene			0.050		30.0
1,1,2-Trichloroethane			0.050		30.0
2-Hexanone			0.020		30.0

7A-2
VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Verification Date:_____ Time:_____

Lab File ID: _____ Init. Calib. Date(s):_____ _____

Heated Purge: (Y/N) ___ Init. Calib. Times: _____ _____

GC Column: _____ ID: _____(m) _____(mm) _____(µm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Tetrachloroethene			0.050		30.0
1,4-Dioxane			0.010		30.0
Tetrahydrofuran			0.020		30.0
1,3-Dichloropropane			0.050		30.0
Dibromochloromethane			0.020		30.0
Bromoform			0.020		30.0
Isopropylbenzene			0.050		30.0
1,2-Dibromoethane			0.020		30.0
Chlorobenzene			0.050		30.0
Ethylbenzene			0.050		30.0
1,1,1,2-Tetrachloroethane			0.050		30.0
1,1,2,2-Tetrachloroethane			0.050		30.0
Xylene (total)			0.050		30.0
Styrene			0.050		30.0
Bromobenzene			0.050		30.0
N-Propylbenzene			0.050		30.0
1,2,3-Trichloropropane			0.050		30.0
2-Chlorotoluene			0.050		30.0
1,3,5-Trimethylbenzene			0.050		30.0
4-Chlorotoluene			0.050		30.0
tert-Butylbenzene			0.050		30.0
1,2,4-Trimethylbenzene			0.050		30.0
sec-Butylbenzene			0.050		30.0
4-Isopropyltoluene			0.050		30.0
1,3-Dichlorobenzene			0.050		30.0
1,4-Dichlorobenzene			0.050		30.0
N-Butylbenzene			0.050		30.0
1,2-Dichlorobenzene			0.050		30.0
1,2-Dibromo-3-Chloropropane			0.020		30.0
1,2,4-Trichlorobenzene			0.050		30.0
Hexachlorobutadiene			0.050		30.0
Naphthalene			0.050		30.0
1,2,3-trichlorobenzene			0.050		30.0
1,2-Dichloroethane-d4			0.010		30.0
1,2-Dichlorobenzene-d4			0.010		30.0

7B-1
SEMIVOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Verification Date:_____ Time:_____

Lab File ID: _____ Init. Calib. Date(s):_____ _____

Init. Calib. Times: _____ _____

COMPOUND	___ RRF	RRF50	MIN RRF	%D	MAX %D
Phenol			0.800		30.0
bis(2-Chloroethyl)ether			0.700		30.0
2-Chlorophenol			0.800		30.0
1,3-Dichlorobenzene			0.600		30.0
1,4-Dichlorobenzene			0.500		30.0
1,2-Dichlorobenzene			0.400		30.0
2-Methylphenol			0.700		30.0
2,2'-oxybis(1-Chloropropane)			0.010		30.0
4-Methylphenol			0.600		30.0
N-Nitroso-di-n-propylamine			0.500		30.0
Hexachloroethane			0.300		30.0
Nitrobenzene			0.200		30.0
Isophorone			0.400		30.0
2-Nitrophenol			0.100		30.0
2,4-Dimethylphenol			0.200		30.0
bis(2-Chloroethoxy)methane			0.300		30.0
2,4-Dichlorophenol			0.200		30.0
1,2,4-Trichlorobenzene			0.200		30.0
Naphthalene			0.700		30.0
4-Chloroaniline			0.010		30.0
Hexachlorobutadiene			0.010		30.0
4-Chloro-3-methylphenol			0.200		30.0
2-Methylnaphthalene			0.400		30.0
Hexachlorocyclopentadiene			0.010		30.0
2,4,6-Trichlorophenol			0.200		30.0
2,4,5-Trichlorophenol			0.200		30.0
2-Chloronaphthalene			0.800		30.0
2-Nitroaniline			0.010		30.0
Dimethylphthalate			0.010		30.0
Acenaphthylene			0.900		30.0
2,6-Dinitrotoluene			0.200		30.0
3-Nitroaniline			0.010		30.0
Acenaphthene			0.900		30.0
2,4-Dinitrophenol			0.010		30.0
4-Nitrophenol			0.010		30.0
Dibenzofuran			0.800		30.0
2,4-Dinitrotoluene			0.200		30.0

SEMIVOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Verification Date:_____ Time:_____

Lab File ID: _____ Init. Calib. Date(s):_____ _____

Init. Calib. Times: _____ _____

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate			0.101		30.0
4-Chlorophenyl-phenylether			0.400		30.0
Fluorene			0.900		30.0
4-Nitroaniline			0.010		30.0
4,6-Dinitro-2-methylphenol			0.010		30.0
N-Nitrosodiphenylamine (1)			0.010		30.0
4-Bromophenyl-phenylether			0.100		30.0
Hexachlorobenzene			0.100		30.0
Pentachlorophenol			0.050		30.0
Phenanthrene			0.700		30.0
Anthracene			0.700		30.0
Carbazole			0.010		30.0
Di-n-butylphthalate			0.010		30.0
Fluoranthene			0.600		30.0
Pyrene			0.600		30.0
Butylbenzylphthalate			0.010		30.0
3,3'-Dichlorobenzidine			0.010		30.0
Benzo(a)anthracene			0.800		30.0
Chrysene			0.700		30.0
bis(2-Ethylhexyl)phthalate			0.010		30.0
Di-n-octylphthalate			0.010		30.0
Benzo(b)fluoranthene			0.700		30.0
Benzo(k)fluoranthene			0.700		30.0
Benzo(a)pyrene			0.700		30.0
Indeno(1,2,3-cd)pyrene			0.500		30.0
Dibenz(a,h)anthracene			0.400		30.0
Benzo(g,h,i)perylene			0.500		30.0
Nitrobenzene-d5			0.200		30.0
2-Fluorobiphenyl			0.700		30.0
Terphenyl-d14			0.500		30.0
Phenol-d5			0.800		30.0
2-Fluorophenol			0.600		30.0
2,4,6-Tribromophenol			0.010		30.0
2-Chlorophenol-d4			0.800		30.0
1,2-Dichlorobenzene-d4			0.400		30.0

(1) Cannot be separated from Diphenylamine

MODIFIED 524.2 VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Verification Date:_____ Time:_____

Lab File ID: _____ Init. Calib. Date(s):_____ _____

Init. Calib. Times: _____ _____

GC Column: _____ ID: _____(m) _____(mm) _____(µm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Dichlorodifluoromethane			0.050		30.0
Chloromethane			0.050		30.0
Vinyl Chloride			0.050		30.0
Bromomethane			0.050		30.0
Chloroethane			0.050		30.0
Trichlorofluoromethane			0.050		30.0
1,1-Dichloroethene			0.050		30.0
Acetone			0.020		30.0
Carbon Disulfide			0.050		30.0
Methylene Chloride			0.050		30.0
trans-1,2-Dichloroethene			0.050		30.0
1,1-Dichloroethane			0.050		30.0
2,2-Dichloropropane			0.050		30.0
2-Butanone			0.010		30.0
cis-1,2-Dichloroethene			0.050		30.0
Chloroform			0.050		30.0
Bromochloromethane			0.020		30.0
1,1,1-Trichloroethane			0.050		30.0
1,1-Dichloropropene			0.050		30.0
Carbon Tetrachloride			0.050		30.0
Benzene			0.050		30.0
1,2-Dichloroethane			0.050		30.0
Trichloroethene			0.050		30.0
1,2-Dichloropropane			0.050		30.0
Bromodichloromethane			0.050		30.0
Dibromomethane			0.020		30.0
4-Methyl-2-Pentanone			0.020		30.0
trans-1,3-Dichloropropene			0.050		30.0
Toluene			0.050		30.0
cis-1,3-Dichloropropene			0.050		30.0
1,1,2-Trichloroethane			0.050		30.0
2-Hexanone			0.020		30.0

MODIFIED 524.2 VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Verification Date:_____ Time:_____

Lab File ID: _____ Init. Calib. Date(s):_____ _____

Init. Calib. Times: _____ _____

GC Column: _____ ID: _____(m) _____(mm) _____(µm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Tetrachloroethene			0.050		30.0
1,4-Dioxane			none		30.0
Tetrahydrofuran			0.020		30.0
1,3-Dichloropropane			0.050		30.0
Dibromochloromethane			0.020		30.0
Bromoform			0.020		30.0
Isopropylbenzene			0.050		30.0
1,2-Dibromoethane			0.020		30.0
Chlorobenzene			0.050		30.0
Ethylbenzene			0.050		30.0
1,1,1,2-Tetrachloroethane			0.050		30.0
1,1,2,2-Tetrachloroethane			0.050		30.0
Xylene (total)			0.050		30.0
Styrene			0.050		30.0
Bromobenzene			0.050		30.0
N-Propylbenzene			0.050		30.0
1,2,3-Trichloropropane			0.050		30.0
2-Chlorotoluene			0.050		30.0
1,3,5-Trimethylbenzene			0.050		30.0
4-Chlorotoluene			0.050		30.0
tert-Butylbenzene			0.050		30.0
1,2,4-Trimethylbenzene			0.050		30.0
sec-Butylbenzene			0.050		30.0
4-Isopropyltoluene			0.050		30.0
1,3-Dichlorobenzene			0.050		30.0
1,4-Dichlorobenzene			0.050		30.0
N-Butylbenzene			0.050		30.0
1,2-Dichlorobenzene			0.050		30.0
1,2-Dibromo-3-Chloropropane			0.020		30.0
1,2,4-Trichlorobenzene			0.050		30.0
Hexachlorobutadiene			0.050		30.0
Naphthalene			0.050		30.0
1,2,3-trichlorobenzene			0.050		30.0
1,2-Dichloroethane-d4			0.050		30.0
1,2-Dichlorobenzene-d4			0.050		30.0

7F
WATER SOLUBLE ORGANICS - GC/NPD
INITIAL CALIBRATION VERIFICATION

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Verification Date:_____ Time:_____

Lab File ID: _____ Init. Calib. Date(s):_____ _____

Init. Calib. Times: _____ _____

GC Column (1,2) ___ : _____ ID: _____(m) _____(mm) _____(µm)

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (µg/L)	NOM AMOUNT (µg/L)	%D
N,N-Dimethylformamide						
Acetonitrile						
Urethane						
Ethylurethane						
Acrylonitrile						
N,N-Dimethylacetamide						

7G
WATER SOLUBLE ORGANICS - GC/FID
INITIAL CALIBRATION VERIFICATION

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Verification Date:_____ Time:_____

Lab File ID: _____ Init. Calib. Date(s):_____ _____

Init. Calib. Times: _____ _____

GC Column (1,2) ___ : _____ ID: _____(m) _____(mm) _____(µm)

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (mg/L)	NOM AMOUNT (mg/L)	%D
2-Methoxyethanol						
Diethyl Ether						
Methanol						
Ethanol						
N-Propanol						
Ethylene Glycol						
Propylene Glycol						
1,4-Dioxane						
Dimethyl Sulfoxide						
2-Ethoxyethanol						

8A-1
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Calibration Date:_____ Time:_____

Lab File ID: _____ Init. Calib. Date(s):_____ _____

Heated Purge: (Y/N) ___ Init. Calib. Times: _____ _____

GC Column: _____ ID: _____(m) _____(mm) _____(µm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane			0.050		30.0
Chloromethane			0.050		30.0
Vinyl Chloride			0.050		25.0
Bromomethane			0.050		25.0
Chloroethane			0.050		25.0
Trichlorofluoromethane			0.050		25.0
1,1-Dichloroethene			0.050		25.0
Acetone			0.020		30.0
Carbon Disulfide			0.050		30.0
Methylene Chloride			0.050		30.0
trans-1,2-Dichloroethene			0.050		25.0
1,1-Dichloroethane			0.050		25.0
2,2-Dichloropropane			0.050		25.0
2-Butanone			0.020		30.0
cis-1,2-Dichloroethene			0.050		25.0
Chloroform			0.050		25.0
Bromochloromethane			0.020		25.0
1,1,1-Trichloroethane			0.050		25.0
1,1-Dichloropropene			0.050		25.0
Carbon Tetrachloride			0.050		25.0
Benzene			0.050		25.0
1,2-Dichloroethane			0.050		25.0
Trichloroethene			0.050		25.0
1,2-Dichloropropane			0.050		25.0
Bromodichloromethane			0.050		25.0
Dibromomethane			0.020		25.0
4-Methyl-2-Pentanone			0.020		30.0
trans-1,3-Dichloropropene			0.050		25.0
Toluene			0.050		25.0
cis-1,3-Dichloropropene			0.050		25.0
1,1,2-Trichloroethane			0.050		25.0
2-Hexanone			0.020		30.0

8A-2
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Calibration Date:_____ Time:_____

Lab File ID: _____ Init. Calib. Date(s):_____ _____

Heated Purge: (Y/N) ___ Init. Calib. Times: _____ _____

GC Column: _____ ID: _____(m) _____(mm) _____(µm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Tetrachloroethene			0.050		25.0
1,4-Dioxane			0.010		30.0
Tetrahydrofuran			0.020		25.0
1,3-Dichloropropane			0.050		25.0
Dibromochloromethane			0.020		25.0
Bromoform			0.020		25.0
Isopropylbenzene			0.050		25.0
1,2-Dibromoethane			0.020		25.0
Chlorobenzene			0.050		25.0
Ethylbenzene			0.050		25.0
1,1,1,2-Tetrachloroethane			0.050		25.0
1,1,2,2-Tetrachloroethane			0.050		25.0
Xylene (total)			0.050		25.0
Styrene			0.050		25.0
Bromobenzene			0.050		25.0
N-Propylbenzene			0.050		25.0
1,2,3-Trichloropropane			0.050		25.0
2-Chlorotoluene			0.050		25.0
1,3,5-Trimethylbenzene			0.050		25.0
4-Chlorotoluene			0.050		25.0
tert-Butylbenzene			0.050		25.0
1,2,4-Trimethylbenzene			0.050		25.0
sec-Butylbenzene			0.050		25.0
4-Isopropyltoluene			0.050		25.0
1,3-Dichlorobenzene			0.050		25.0
1,4-Dichlorobenzene			0.050		25.0
N-Butylbenzene			0.050		25.0
1,2-Dichlorobenzene			0.050		25.0
1,2-Dibromo-3-Chloropropane			0.020		25.0
1,2,4-Trichlorobenzene			0.050		25.0
Hexachlorobutadiene			0.050		25.0
Naphthalene			0.050		25.0
1,2,3-trichlorobenzene			0.050		25.0
1,2-Dichloroethane-d4			0.050		30.0
1,2-Dichlorobenzene-d4			0.050		30.0

8B-1
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Calibration Date:_____ Time:_____

Lab File ID: _____ Init. Calib. Date(s):_____ _____

Init. Calib. Times: _____ _____

COMPOUND	___ RRF	RRF50	MIN RRF	%D	MAX %D
Phenol			0.800		25.0
bis(2-Chloroethyl)ether			0.700		25.0
2-Chlorophenol			0.800		25.0
1,3-Dichlorobenzene			0.600		25.0
1,4-Dichlorobenzene			0.500		25.0
1,2-Dichlorobenzene			0.400		25.0
2-Methylphenol			0.700		25.0
2,2'-oxybis(1-Chloropropane)			0.010		30.0
4-Methylphenol			0.600		25.0
N-Nitroso-di-n-propylamine			0.500		25.0
Hexachloroethane			0.300		25.0
Nitrobenzene			0.200		25.0
Isophorone			0.400		25.0
2-Nitrophenol			0.100		25.0
2,4-Dimethylphenol			0.200		25.0
bis(2-Chloroethoxy)methane			0.300		25.0
2,4-Dichlorophenol			0.200		25.0
1,2,4-Trichlorobenzene			0.200		25.0
Naphthalene			0.700		25.0
4-Chloroaniline			0.010		30.0
Hexachlorobutadiene			0.010		30.0
4-Chloro-3-methylphenol			0.200		25.0
2-Methylnaphthalene			0.400		25.0
Hexachlorocyclopentadiene			0.010		30.0
2,4,6-Trichlorophenol			0.200		25.0
2,4,5-Trichlorophenol			0.200		25.0
2-Chloronaphthalene			0.800		25.0
2-Nitroaniline			0.010		30.0
Dimethylphthalate			0.010		30.0
Acenaphthylene			0.900		25.0
2,6-Dinitrotoluene			0.200		25.0
3-Nitroaniline			0.010		30.0
Acenaphthene			0.900		25.0
2,4-Dinitrophenol			0.010		30.0
4-Nitrophenol			0.010		30.0
Dibenzofuran			0.800		25.0
2,4-Dinitrotoluene			0.200		25.0

8B-2
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Calibration Date:_____ Time:_____

Lab File ID: _____ Init. Calib. Date(s):_____ _____

Init. Calib. Times: _____ _____

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate			0.010		30.0
4-Chlorophenyl-phenylether			0.400		25.0
Fluorene			0.900		25.0
4-Nitroaniline			0.010		30.0
4,6-Dinitro-2-methylphenol			0.010		30.0
N-Nitrosodiphenylamine (1)			0.010		30.0
4-Bromophenyl-phenylether			0.100		25.0
Hexachlorobenzene			0.100		25.0
Pentachlorophenol			0.050		25.0
Phenanthrene			0.700		25.0
Anthracene			0.700		25.0
Carbazole			0.010		30.0
Di-n-butylphthalate			0.010		30.0
Fluoranthene			0.600		25.0
Pyrene			0.600		25.0
Butylbenzylphthalate			0.010		30.0
3,3'-Dichlorobenzidine			0.010		30.0
Benzo(a)anthracene			0.800		25.0
Chrysene			0.700		25.0
bis(2-Ethylhexyl)phthalate			0.010		30.0
Di-n-octylphthalate			0.010		30.0
Benzo(b)fluoranthene			0.700		25.0
Benzo(k)fluoranthene			0.700		25.0
Benzo(a)pyrene			0.700		25.0
Indeno(1,2,3-cd)pyrene			0.500		25.0
Dibenz(a,h)anthracene			0.400		25.0
Benzo(g,h,i)perylene			0.500		25.0
Nitrobenzene-d5			0.200		25.0
2-Fluorobiphenyl			0.700		25.0
Terphenyl-d14			0.500		25.0
Phenol-d5			0.800		25.0
2-Fluorophenol			0.600		25.0
2,4,6-Tribromophenol			0.010		30.0
2-Chlorophenol-d4			0.800		25.0
1,2-Dichlorobenzene-d4			0.400		25.0

(1) Cannot be separated from Diphenylamine

8C-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Init. Calib. Date(s):_____ _____

Init. Calib. Times: _____ _____

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab File ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): _____ Date Analyzed :_____

Lab File ID (PEM): _____ Time Analyzed :_____

GC Column (1,2) ___ : _____ ID: _____(m) _____(mm) _____(µm)

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC						
beta-BHC						
gamma-BHC (Lindane)						
Endrin						
4,4'-DDT						
Methoxychlor						

4,4'-DDT % breakdown (1): _____ Endrin % breakdown (1): _____

Combined % breakdown (1): _____

8C-2

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Init. Calib. Date(s):_____ _____

Init. Calib. Times: _____ _____

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab File ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(INDA): _____ Date Analyzed :_____

Lab File ID (INDA): _____ Time Analyzed :_____

GC Column (1,2) ___ : _____ ID: _____(m) _____(mm) _____(µm)

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC						
gamma-BHC (Lindane)						
Heptachlor						
Endosulfan I						
Dieldrin						
Endrin						
4,4'-DDD						
4,4'-DDT						
Methoxychlor						
Tetrachloro-m-xylene						
Decachlorobiphenyl						

EPA Sample No.(INDB): _____ Date Analyzed :_____

Lab File ID (INDB): _____ Time Analyzed :_____

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC						
delta-BHC						
Aldrin						
Heptachlor epoxide						
4,4'-DDE						
Endosulfan II						
Endosulfan sulfate						
Endrin ketone						
Endrin aldehyde						
alpha-Chlordane						
gamma-Chlordane						
Tetrachloro-m-xylene						
Decachlorobiphenyl						

MODIFIED 524.2 VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Calibration Date:_____ Time:_____

Lab File ID: _____ Init. Calib. Date(s):_____ _____

Init. Calib. Times: _____ _____

GC Column: _____ ID: _____(m) _____(mm) _____(µm)

COMPOUND	___ RRF	RRF10	MIN RRF	%D	MAX %D
Dichlorodifluoromethane			0.050		30.0
Chloromethane			0.050		30.0
Vinyl Chloride			0.050		30.0
Bromomethane			0.050		30.0
Chloroethane			0.050		30.0
Trichlorofluoromethane			0.050		30.0
1,1-Dichloroethene			0.050		30.0
Acetone			0.020		30.0
Carbon Disulfide			0.050		30.0
Methylene Chloride			0.050		30.0
trans-1,2-Dichloroethene			0.050		30.0
1,1-Dichloroethane			0.050		30.0
2,2-Dichloropropane			0.050		30.0
2-Butanone			0.010		30.0
cis-1,2-Dichloroethene			0.050		30.0
Chloroform			0.050		30.0
Bromochloromethane			0.020		30.0
1,1,1-Trichloroethane			0.050		30.0
1,1-Dichloropropene			0.050		30.0
Carbon Tetrachloride			0.050		30.0
Benzene			0.050		30.0
1,2-Dichloroethane			0.050		30.0
Trichloroethene			0.050		30.0
1,2-Dichloropropane			0.050		30.0
Bromodichloromethane			0.050		30.0
Dibromomethane			0.020		30.0
4-Methyl-2-Pentanone			0.020		30.0
trans-1,3-Dichloropropene			0.050		30.0
Toluene			0.050		30.0
cis-1,3-Dichloropropene			0.050		30.0
1,1,2-Trichloroethane			0.050		30.0
2-Hexanone			0.020		30.0

MODIFIED 524.2 VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Calibration Date:_____ Time:_____

Lab File ID: _____ Init. Calib. Date(s):_____ _____

Init. Calib. Times: _____ _____

GC Column: _____ ID: _____(m) _____(mm) _____(µm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Tetrachloroethene			0.050		30.0
1,4-Dioxane			none		30.0
Tetrahydrofuran			0.020		30.0
1,3-Dichloropropane			0.050		30.0
Dibromochloromethane			0.020		30.0
Bromoform			0.020		30.0
Isopropylbenzene			0.050		30.0
1,2-Dibromoethane			0.020		30.0
Chlorobenzene			0.050		30.0
Ethylbenzene			0.050		30.0
1,1,1,2-Tetrachloroethane			0.050		30.0
1,1,2,2-Tetrachloroethane			0.050		30.0
Xylene (total)			0.050		30.0
Styrene			0.050		30.0
Bromobenzene			0.050		30.0
N-Propylbenzene			0.050		30.0
1,2,3-Trichloropropane			0.050		30.0
2-Chlorotoluene			0.050		30.0
1,3,5-Trimethylbenzene			0.050		30.0
4-Chlorotoluene			0.050		30.0
tert-Butylbenzene			0.050		30.0
1,2,4-Trimethylbenzene			0.050		30.0
sec-Butylbenzene			0.050		30.0
4-Isopropyltoluene			0.050		30.0
1,3-Dichlorobenzene			0.050		30.0
1,4-Dichlorobenzene			0.050		30.0
N-Butylbenzene			0.050		30.0
1,2-Dichlorobenzene			0.050		30.0
1,2-Dibromo-3-Chloropropane			0.020		30.0
1,2,4-Trichlorobenzene			0.050		30.0
Hexachlorobutadiene			0.050		30.0
Naphthalene			0.050		30.0
1,2,3-trichlorobenzene			0.050		30.0
1,2-Dichloroethane-d4			0.050		30.0
1,2-Dichlorobenzene-d4			0.050		30.0

8E

AROCLOR CONTINUING CALIBRATION SUMMARY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Init. Calib. Date(s):_____ _____

Init. Calib. Times: _____ _____

EPA Sample No.(AIBLK): _____ Date Analyzed :_____

Lab File ID (AIBLK): _____ Time Analyzed :_____

EPA Sample No.(CCS): _____ Date Analyzed :_____

Lab File ID (CCS): _____ Time Analyzed :_____

GC Column (1,2) ___ : _____ ID: _____(m) _____(mm) _____(µm)

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	AVG CALC AMOUNT	NOM AMOUNT	%D
Aroclor 1254	*1							
	*2							
	*3							
	4							
	5							
Aroclor ____	*1							
	*2							
	*3							
	4							
	5							
Aroclor ____	*1							
	*2							
	*3							
	4							
	5							
Aroclor ____	*1							
	*2							
	*3							
	4							
	5							
Aroclor ____	*1							
	*2							
	*3							
	4							
	5							

* Denotes required peaks

8F
WATER SOLUBLE ORGANICS - GC/NPD
CONTINUING CALIBRATION SUMMARY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Init. Calib. Date(s):_____ _____

Init. Calib. Times: _____ _____

EPA Sample No.(NIBLK): _____ Date Analyzed :_____

Lab File ID (NIBLK): _____ Time Analyzed :_____

EPA Sample No.(CCS): _____ Date Analyzed :_____

Lab File ID (CCS): _____ Time Analyzed :_____

GC Column (1,2) ___ : _____ ID: _____(m) _____(mm) _____(µm)

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
N,N-Dimethylformamide						
Acetonitrile						
Urethane						
Ethylurethane						
Acrylonitrile						
N,N-Dimethylacetamide						

FORM VIII WSO/NPD

8G
WATER SOLUBLE ORGANICS - GC/FID
CONTINUING CALIBRATION SUMMARY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Init. Calib. Date(s):_____ _____

Init. Calib. Times: _____ _____

EPA Sample No.(FIBLK): _____ Date Analyzed :_____

Lab File ID (FIBLK): _____ Time Analyzed :_____

EPA Sample No.(CCS): _____ Date Analyzed :_____

Lab File ID (CCS): _____ Time Analyzed :_____

GC Column (1,2) ___ : _____ ID: _____(m) _____(mm) _____(µm)

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
2-Methoxyethanol						
Diethyl Ether						
Methanol						
Ethanol						
N-Propanol						
Ethylene Glycol						
Propylene Glycol						
1,4-Dioxane						
Dimethyl Sulfoxide						
2-Ethoxyethanol						

9A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Lab File ID (Standard): _____ Date Analyzed:_____

Instrument ID: _____ Time Analyzed:_____

Heated Purge: (Y/N) ___

GC Column: _____ ID: _____(m) _____(mm) _____(µm)

		IS1(FBZ) AREA #	RT #	IS2(CBZ) AREA #	RT #
	12 HOUR STD				
	UPPER LIMIT				
	LOWER LIMIT				
	EPA SAMPLE NO.				
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

IS1 (FBZ) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

page __ of __

9B-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Lab File ID (Standard): _____ Date Analyzed:_____

Instrument ID: _____ Time Analyzed:_____

		IS1(DCB)		IS2(NPT)		IS3(ANT)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD						
	UPPER LIMIT						
	LOWER LIMIT						
	EPA SAMPLE NO.						
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

page __ of __

9B-2

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Lab File ID (Standard): _____ Date Analyzed:_____

Instrument ID: _____ Time Analyzed:_____

		IS4(PHN)		IS5(CRY)		IS6(PRY)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD						
	UPPER LIMIT						
	LOWER LIMIT						
	EPA SAMPLE NO.						
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

page __ of __

9C
PESTICIDE ANALYTICAL SEQUENCE

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Init. Calib. Date(s):_____ _____

GC Column (1,2) ___ : _____ ID: _____(m) _____(mm) _____(µm)

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, QC SAMPLES AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: _____ DCB: _____

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							

QC LIMITS
TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

page __ of __

FORM IX PEST

9D
MODIFIED 524.2 VOLATILE
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Lab File ID (Standard): _____ Date Analyzed:_____

Instrument ID: _____ Time Analyzed:_____

GC Column: _____ ID: _____(m) _____(mm) _____(µm)

		IS1(FBZ) AREA #	RT #	IS2(CBZ) AREA #	RT #
	12 HOUR STD				
	UPPER LIMIT				
	LOWER LIMIT				
	EPA SAMPLE NO.				
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

IS1 (FBZ) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

page __ of __

9E
AROCLOR ANALYTICAL SEQUENCE

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Init. Calib. Date(s):_____ _____

GC Column (1,2) ___ : _____ ID: _____(m) _____(mm) _____(µm)

THE ANALYTICAL SEQUENCE OF STANDARDS, SAMPLES, QC SAMPLES, AND REQUIRED BLANKS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: _____ DCB: _____

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							

QC LIMITS
TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

page __ of __

FORM IX PCB

9F
WATER SOLUBLE ORGANICS - GC/NPD
ANALYTICAL SEQUENCE

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Init. Calib. Date(s):_____ _____

GC Column (1,2) ___ : _____ ID: _____(m) _____(mm) _____(µm)

THE ANALYTICAL SEQUENCE OF STANDARDS, SAMPLES, QC SAMPLES, AND REQUIRED BLANKS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION - DMA: _____

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	DMA RT #
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS
DMA = N,N-Dimethylacetamide (± 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

page __ of __

9G
WATER SOLUBLE ORGANICS - GC/FID
ANALYTICAL SEQUENCE

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Instrument ID: _____ Init. Calib. Date(s):_____ _____

GC Column (1,2) ___ : _____ ID: _____(m) _____(mm) _____(µm)

THE ANALYTICAL SEQUENCE OF STANDARDS, SAMPLES, QC SAMPLES, AND REQUIRED BLANKS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION - 2EE: _____

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	2EE RT #
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

2EE = 2-Ethoxyethanol

QC LIMITS
(± 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

page __ of __

10C-1

PESTICIDE FLORISIL CARTRIDGE CHECK

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Florisil Cartridge Lot Number: _____ Date of Analysis: _____

GC Column(1): _____ ID: _____(m) _____(mm) _____(µm)

GC Column(2): _____ ID: _____(m) _____(mm) _____(µm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
alpha-BHC				80-120
gamma-BHC (Lindane)				80-120
Heptachlor				80-120
Endosulfan I				80-120
Dieldrin				80-120
Endrin				80-120
4,4'-DDD				80-120
4,4'-DDT				80-120
Methoxychlor				80-120
Tetrachloro-m-xylene				80-120
Decachlorobiphenyl				80-120

Column to be used to flag recovery with an asterisk.
* Values outside of QC limits.

THIS CARTRIDGE LOT APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				

page __ of __

10C-2
PESTICIDE GPC CALIBRATION

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

GPC Column: _____ Calibration Date: _____

GC Column(1): _____ ID: _____(m) _____(mm) _____(µm)

GC Column(2): _____ ID: _____(m) _____(mm) _____(µm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC. LIMITS REC.
gamma-BHC (Lindane)				80-110
Heptachlor				80-110
Aldrin				80-110
Dieldrin				80-110
Endrin				80-110
4,4'-DDT				80-110

Column to be used to flag recovery values with an asterisk
* Values outside of QC limits

THIS GPC CALIBRATION APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

page __ of __

FORM X PEST-2

11C-1

PESTICIDE IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

_____

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Lab Sample ID : _____ Date(s) Analyzed: _____ _____

Instrument ID (1): _____ Instrument ID (2): _____

GC Column(1): _____ ID: _____(m) _____(mm) _____(µm)

GC Column(2): _____ ID: _____(m) _____(mm) _____(µm)

Matrix (water/soil/waste) _____

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
_____	1	_____	_____	_____	_____	
	2	_____	_____	_____	_____	_____
_____	1	_____	_____	_____	_____	
	2	_____	_____	_____	_____	_____
_____	1	_____	_____	_____	_____	
	2	_____	_____	_____	_____	_____
_____	1	_____	_____	_____	_____	
	2	_____	_____	_____	_____	_____
_____	1	_____	_____	_____	_____	
	2	_____	_____	_____	_____	_____
_____	1	_____	_____	_____	_____	
	2	_____	_____	_____	_____	_____
_____	1	_____	_____	_____	_____	
	2	_____	_____	_____	_____	_____
_____	1	_____	_____	_____	_____	
	2	_____	_____	_____	_____	_____

page __ of __

11C-2

PESTICIDE IDENTIFICATION SUMMARY FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Lab Sample ID : _____ Date(s) Analyzed: _____ _____

Instrument ID (1): _____ Instrument ID (2): _____

GC Column(1): _____ ID: _____(m) _____(mm) _____(µm)

GC Column(2): _____ ID: _____(m) _____(mm) _____(µm)

Matrix (water/soil/waste) _____

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
_____ COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
_____ COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
_____ COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

page __ of __

FORM XI PEST-2

11E

AROCLOR IDENTIFICATION SUMMARY

EPA SAMPLE NO.

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Lab Sample ID : _____ Date(s) Analyzed: _____ _____

Instrument ID (1): _____ Instrument ID (2): _____

GC Column(1): _____ ID: _____(m) _____(mm) _____(µm)

GC Column(2): _____ ID: _____(m) _____(mm) _____(µm)

Matrix (water/soil/waste) _____

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
_____ COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
_____ COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
_____ COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

page __ of __

FORM XI PCB

11F

WATER SOLUBLE ORGANICS - GC/NPD
IDENTIFICATION SUMMARY

EPA SAMPLE NO.

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Lab Sample ID : _____ Date(s) Analyzed: _____ _____

Instrument ID (1): _____ Instrument ID (2): _____

GC Column(1): _____ ID: _____(m) _____(mm) _____(µm)

GC Column(2): _____ ID: _____(m) _____(mm) _____(µm)

Matrix (water/soil/waste) _____

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
_____	1	_____	_____	_____	_____	
	2	_____	_____	_____	_____	_____
_____	1	_____	_____	_____	_____	
	2	_____	_____	_____	_____	_____
_____	1	_____	_____	_____	_____	
	2	_____	_____	_____	_____	_____
_____	1	_____	_____	_____	_____	
	2	_____	_____	_____	_____	_____
_____	1	_____	_____	_____	_____	
	2	_____	_____	_____	_____	_____

page __ of __

11G

WATER SOLUBLE ORGANICS - GC/FID
IDENTIFICATION SUMMARY

EPA SAMPLE NO.
_____

Lab Name:_____ Contract:_____

Lab Code: _____ Case No.: _____ SDG No.: _____

Lab Sample ID : _____ Date(s) Analyzed: _____ _____

Instrument ID (1): _____ Instrument ID (2): _____

GC Column(1): _____ ID: _____(m) _____(mm) _____(µm)

GC Column(2): _____ ID: _____(m) _____(mm) _____(µm)

Matrix (water/soil/waste) _____

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
_____	1	_____	_____	_____	_____	
	2	_____	_____	_____	_____	_____
_____	1	_____	_____	_____	_____	
	2	_____	_____	_____	_____	_____
_____	1	_____	_____	_____	_____	
	2	_____	_____	_____	_____	_____
_____	1	_____	_____	_____	_____	
	2	_____	_____	_____	_____	_____
_____	1	_____	_____	_____	_____	
	2	_____	_____	_____	_____	_____
_____	1	_____	_____	_____	_____	
	2	_____	_____	_____	_____	_____
_____	1	_____	_____	_____	_____	
	2	_____	_____	_____	_____	_____

page __ of __

FORM XI WSO/FID

SAMPLE LOG-IN SHEET

Lab Name	Page _____ of _____
Received By (Print Name)	Log-in Date
Received By (Signature)	
Case Number	Sample Delivery Group No.

Remarks:		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal(s)	Present/Absent* Intact/Broken				
2. Custody Seal Nos.	_____ _____				
3. Cooler Temperature (if >10°C, then*)	_____				
4. Chain-of Custody Records	Present/Absent*				
5. Traffic Reports or Packing Lists	Present/Absent*				
6. Airbill	Airbill/Sticker Present/Absent*				
7. Airbill No.	_____ _____				
8. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
9. Sample Condition	Intact/Broken*/Leaking				
10. Does information on custody records, traffic reports, and sample tags agree?	Yes/No*				
11. Date Received at Lab	_____				
12. Time Received	_____				
Sample Transfer					
Fraction	Fraction				
Area #	Area #				
By	By				
On	On				

* Contact RSCC and attach record of resolution.

Reviewed By	Logbook No.
Date	Logbook Page No.

FORM DC-1

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME _____
CITY/STATE _____

CASE NO. _____ SDG NO. _____ SDG NOS. TO FOLLOW _____
_____ _____

CONTRACT NO. _____
SOW NO. _____

All documents delivered in the Complete SDG File must be original documents where possible.

	PAGE NOs FROM	TO	CHECK LAB	EPA
1. **Inventory Sheet** (Form DC-2) (Do not number)	____	____	_____	_____
2. **SDG Case Narrative**	____	____	_____	_____
3. **SDG Cover Sheet/Traffic Report**	____	____	_____	_____
4. **Volatiles Data**				
a. QC Summary				
System Monitoring Compound Summary (Form II VOA)	____	____	_____	_____
Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)	____	____	_____	_____
Method Blank Summary (Form IV VOA)	____	____	_____	_____
GC/MS Instrument Performance Check (Form V VOA)	____	____	_____	_____
Internal Standard Area and RT Summary (Form IX VOA)	____	____	_____	_____
b. Sample Data	____	____		
TCL Results - (Form I VOA-1, VOA-2)			_____	_____
Tentatively Identified Compounds (Form I VOA-TIC)			_____	_____
Reconstructed total ion chromatograms (RIC) for each sample			_____	_____
For each sample:				
Raw spectra and background-subtracted mass spectra of target compounds identified			_____	_____
Quantitation reports			_____	_____
Mass spectra of all reported TICs with three best library matches			_____	_____
c. Standards Data (All Instruments)	____	____		
Initial Calibration Data (Form VI VOA-1, VOA-2)			_____	_____
RICs and Quantitation Reports for all Standards			_____	_____
Initial Calibration Verification Data (Form VII VOA-1, VOA-2)			_____	_____
RICs and Quantitation Reports for all Standards			_____	_____
Continuing Calibration Data (Form VIII VOA-1, VOA-2)			_____	_____
RICs and Quantitation Reports for all Standards			_____	_____
d. Raw QC Data				
BFB	____	____	_____	_____
Blank Data	____	____	_____	_____
Matrix Spike/Matrix Spike Duplicate Data	____	____	_____	_____

	PAGE NOs FROM	TO	CHECK LAB	EPA
5. **Semivolatiles Data**				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II SV)	____	____	_____	_____

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. _____ SDG NO. _____ SDG NOS. TO FOLLOW _____
_____ _____

MS/MSD Summary (Form III SV)	____	____	_____	_____
Method Blank Summary (Form IV SV)	____	____	_____	_____
GC/MS Instrument Performance Check (Form V SV)	____	____	_____	_____
Internal Standard Area and RT Summary (Form VIII SV)	____	____	_____	_____
b. Sample Data	____	____		
TCL Results (Form I SV-1, SV-2)			_____	_____
Tentatively Identified Compounds (Form I SV-TIC)			_____	_____
Reconstructed total ion chromatograms (RIC) for each sample			_____	_____
For each sample:				
Raw spectra and background-subtracted mass spectra of target compounds			_____	_____
Quantitation reports			_____	_____
Mass spectra of TICs with three best library matches			_____	_____
GPC chromatograms (if GPC performed)			_____	_____
c. Standards Data (All Instruments)	____	____		
Initial Calibration Data (Form VI SV-1, SV-2)			_____	_____
RICs and Quantitation Reports for all Standards			_____	_____
Initial Calibration Verification Data (Form VII VOA)			_____	_____
RICs and Quantitation Reports for all Standards			_____	_____
Continuing Calibration Data (Form VII SV-1, SV-2)			_____	_____
RICs and Quantitation Reports for all Standards			_____	_____
d. Raw QC Data				
DFTPP	____	____	_____	_____
Blank Data	____	____	_____	_____
Matrix Spike/Matrix Spike Duplicate Data	____	____	_____	_____
e. Raw GPC Data	____	____	_____	_____
6. **Pesticides Data**				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II PEST)	____	____	_____	_____
MS/MSD Duplicate Summary (Form III PEST)	____	____	_____	_____
Method Blank Summary (Form IV PEST)	____	____	_____	_____

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. _____ SDG NO. _____ SDG NOS. TO FOLLOW _____
_____ _____

	PAGE NOs FROM	TO	CHECK LAB	EPA
6. **Pesticides Data** (Cont.)				
b. Sample Data	____	____		
TCL Results - Organic Analysis Data Sheet (Form I PEST)			_____	_____
Chromatograms (Primary Column)			_____	_____
Chromatograms from second GC column confirmation			_____	_____
GC Integration report or data system printout			_____	_____
Manual work sheets			_____	_____
For pesticides/Aroclors confirmed by GC/MS, copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)			_____	_____
c. Standards Data	____	____		
Initial Calibration of Single Component Analytes (Form VI PEST-1 and PEST-2)			_____	_____
Initial Calibration of Multicomponent Analytes (Form VI PEST-3 and PEST-4)			_____	_____
Analyte Resolution Summary (Form VI PEST-5)			_____	_____
Performance Evaluation Mixture (Form VI PEST-6)			_____	_____
Individual Standard Mixture A (Form VI PEST-7)			_____	_____
Individual Standard Mixture B (Form VI PEST-8)			_____	_____
Calibration Verification Summary (Form VII PEST-1)			_____	_____
Calibration Verification Summary (Form VII PEST-2)			_____	_____
Analytical Sequence (Form IX PEST)			_____	_____
Florisil Cartridge Check (Form X PEST-1)			_____	_____
Pesticide GPC Calibration (Form X PEST-2)			_____	_____
Pesticide Identification Summary for Single Component Analytes (Form XI PEST-1)			_____	_____
Pesticide Identification Summary for Multicomponent Analytes (Form XI PEST-2)			_____	_____
Chromatograms and data system printouts A printout of retention times and corresponding peak areas or peak heights			_____	_____
d. Raw QC Data Blank Data	____	____	_____	_____
Matrix Spike/Matrix Spike Duplicate Data	____	____	_____	_____
e. Raw GPC Data	____	____	_____	_____
f. Raw Florisil Data	____	____	_____	_____

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. _____ SDG NO. _____ SDG NOS. TO FOLLOW _____
_____ _____

	PAGE NOs FROM	TO	CHECK LAB	EPA
7. **Modified 524.2 Volatiles Data**				
a. QC Summary				
System Monitoring Compound Summary (Form II 524.2)	____	____	_____	_____
Matrix Spike/Matrix Spike Duplicate Summary (Form III 524.2)	____	____	_____	_____
Method Blank Summary (Form IV 524.2)	____	____	_____	_____
GC/MS Instrument Performance Check (Form V 524.2)	____	____	_____	_____
Internal Standard Area and RT Summary (Form IX 524.2)	____	____	_____	_____
b. Sample Data	____	____		
TCL Results - (Form I 524.2-1, 524.2-2)			_____	_____
Tentatively Identified Compounds (Form I 524.2-TIC)			_____	_____
Reconstructed total ion chromatograms (RIC) for each sample			_____	_____
For each sample: Raw spectra and background-subtracted mass spectra of target compounds identified			_____	_____
Quantitation reports			_____	_____
Mass spectra of all reported TICs with three best library matches			_____	_____
c. Standards Data (All Instruments)	____	____		
Initial Calibration Data (Form VI 524.2-1, 524.2-2)			_____	_____
RICs and Quantitation Reports for all Standards			_____	_____
Initial Calibration Verification Data (Form VII 524.2-1, 524.2-2)			_____	_____
RICs and Quantitation Reports for all Standards			_____	_____
Continuing Calibration Data (Form VIII 524.2-1, 524.2-2)			_____	_____
RICs and Quantitation Reports for all Standards			_____	_____
d. Raw QC Data				
BFB	_____	____	_____	_____
Blank Data	_____	____	_____	_____
Matrix Spike/Matrix Spike Duplicate Data	_____	____	_____	_____

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. _____ SDG NO. _____ SDG NOS. TO FOLLOW _____
_____ _____

	PAGE NOs FROM	TO	CHECK LAB	EPA
8. **Aroclors (only)**				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II PCB)	____	____	_____	_____
MS/MSD Duplicate Summary (Form III PCB)	____	____	_____	_____
Method Blank Summary (Form IV PCB)	____	____	_____	_____
b. Sample Data	____	____		
TCL Results - Organic Analysis Data Sheet (Form I PCB)			_____	_____
Chromatograms (Primary Column)			_____	_____
Chromatograms from second GC column confirmation			_____	_____
GC Integration report or data system printout			_____	_____
Manual work sheets			_____	_____
For Aroclors confirmed by GC/MS, copies of raw spectra and copies of background-subtracted mass spectra of three peak for each target Aroclor (samples & reference standards)			_____	_____
c. Standards Data	____	____		
Initial Calibration of Aroclors (Form VI PCB-1, PCB-2)			_____	_____
Aroclor Resolution Summary (Form VI PCB-3)			_____	_____
Continuing Calibration Summary (Form VIII PCB)			_____	_____
Analytical Sequence (Form IX PCB)			_____	_____
Aroclor Identification Summary (Form XI PCB)			_____	_____
Chromatograms and data system printouts A printout of retention times and corresponding peak areas or peak heights			_____	_____
d. Raw QC Data				
Blank Data	____	____	_____	_____
Matrix Spike/Matrix Spike Duplicate Data	____	____	_____	_____
9. **Water Soluble Organics - GC/NPD**				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II WSO/NPD)	____	____	_____	_____
MS/MSD Duplicate Summary (Form III WSO/NPD)	____	____	_____	_____
Method Blank Summary (Form IV WSO/NPD)	____	____	_____	_____
b. Sample Data	____	____		
TCL Results - Organic Analysis Data Sheet (Form I WSO/NPD)			_____	_____
Chromatograms (Primary Column)			_____	_____
Chromatograms from second GC column confirmation			_____	_____
GC Integration report or data system printout			_____	_____
Manual work sheets			_____	_____

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. _____ SDG NO. _____ SDG NOS. TO FOLLOW _____
_____ _____

	PAGE NOs FROM	TO	CHECK LAB	EPA
9. **Water Soluble Organics - CG/NPD** (Cont.)				
For Water Soluble Organics - GC/NPD confirmed by GC/MS, copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & reference standards)			_____	_____
c. Standards Data	____	____		
Initial Calibration of Water Soluble Organics - GC/NPD (Form VI WSO/NPD-1)			_____	_____
Water Soluble Organics - GC/NPD Resolution Summary (Form VI WSO/NPD-2)			_____	_____
Initial Calibration Verification Data (Form VII WSO/NPD)			_____	_____
Continuing Calibration Summary (Form VIII WSO/NPD)			_____	_____
Analytical Sequence (Form IX WSO/NPD)			_____	_____
Aroclor Identification Summary (Form XI WSO/NPD)			_____	_____
Chromatograms and data system printouts A printout of retention times and corresponding peak areas or peak heights			_____	_____
d. Raw QC Data				
Blank Data	____	____	_____	_____
Matrix Spike/Matrix Spike Duplicate Data	____	____	_____	_____
10. **Water Soluble Organics - GC/FID**				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II WSO/FID)	____	____	_____	_____
MS/MSD Duplicate Summary (Form III WSO/FID)	____	____	_____	_____
Method Blank Summary (Form IV WSO/FID)	____	____	_____	_____
b. Sample Data	____	____		
TCL Results - Organic Analysis Data Sheet (Form I WSO/FID)			_____	_____
Chromatograms (Primary Column)			_____	_____
Chromatograms from second GC column confirmation			_____	_____
GC Integration report or data system printout			_____	_____
Manual work sheets			_____	_____
For Water Soluble Organics - GC/FID confirmed by GC/MS, copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & reference standards)			_____	_____
c. Standards Data	____	____		
Initial Calibration of Water Soluble Organics - GC/NPD (Form VI WSO/FID-1)			_____	_____
Water Soluble Organics - GC/NPD Resolution Summary (Form VI WSO/FID-2)			_____	_____

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. _____ SDG NO. _____ SDG NOS. TO FOLLOW _____
_____ _____

	PAGE NOs FROM	TO	CHECK LAB	EPA
10. **Water Soluble Organics - GC/FID** (Cont.)				
Initial Calibration Verification Data (Form VII WSO/FID)			_____	_____
Continuing Calibration Summary (Form VIII WSO/FID)			_____	_____
Analytical Sequence (Form IX WSO/FID)			_____	_____
Aroclor Identification Summary (Form XI WSO/FID)			_____	_____
Chromatograms and data system printouts A printout of retention times and corresponding peak areas or peak heights			_____	_____
d. Raw QC Data				
Blank Data	____	____	_____	_____
Matrix Spike/Matrix Spike Duplicate Data	____	____	_____	_____
11. **Miscellaneous Data**				
Original preparation and analysis forms or copies of preparation and analysis logbook pages	____	____	_____	_____
Internal sample and sample extract transfer chain-of-custody records	____	____	_____	_____
Screening records	____	____	_____	_____
All instrument output, including strip charts from screening activities (describe or list)				
_____	____	____	_____	_____
_____	____	____	_____	_____
12. **EPA Shipping/Receiving Documents**				
Airbills (No. of shipments ___)	____	____	_____	_____
Chain-of-Custody Records	____	____	_____	_____
Sample Tags			_____	_____
Sample Log-In Sheet (Lab & DC1)	____	____	_____	_____
Miscellaneous Shipping/Receiving Records (describe or list)				
_____	____	____	_____	_____
_____	____	____	_____	_____
13. **Internal Lab Sample Transfer Records and Tracking Sheets** (describe or list)				
_____	____	____	_____	_____
_____	____	____	_____	_____

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. _____ SDG NO. _____ SDG NOS. TO FOLLOW _____
_____ _____

	PAGE NOs FROM	TO	CHECK LAB	EPA
14. **Other Records** (describe or list)				
Telephone Communication Log	____	____	_____	_____
_____	____	____	_____	_____
_____	____	____	_____	_____

15. **Comments:** _____
_____
_____

Completed by: _____ _____ _____
(REAP Lab) (Signature) (Printed Name/Title) (Date)

Verified by: _____ _____ _____
(REAP Lab) (Signature) (Printed Name/Title) (Date)

Audited by: _____ _____ _____
(EPA) (Signature) (Printed Name/Title) (Date)