EPA R1 Data Validation Worksheet
VOA/SV/Pest/PCB

Case: _____ SDG: _____

COMPLETE SDG FILE (CSF) AUDIT

Organic Fractions: _____

Missing Information	Date Lab Contacted	Date Received

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
VOA/SV/Pest/PCB-I

Case: _____ SDG: _____

I. PRESERVATION AND HOLDING TIMES - Circle sample numbers with exceeded technical holding times or omitted preservation.
List all required preservation codes and circle omitted preservation codes.
Circle all exceeded technical holding times.
Identify extraction technique after "# of Days"/(*Extraction Code).

Sample No. (TR No.)	Matrix	Pres. Code	Date Sampled	VOA			BNA					PEST/PCB				
				Date Analyzed	# of Days from Sampling to Analysis	Action	Date Extracted	# of Days from Sampling to Extr./(*)	Date Analyzed	# of Days from Sampling to Anal.	Action	Date Extracted	# of Days from Sampling to Extr/.(*)	Date Analyzed	# of Days from Sampling to Anal.	Action

Sampler: _____ Company: _____ Contacted: Yes No Date: _____

Preservation Code:
1. Cool @ 4°C (± 2°)
2. Preserve with HCl to at least pH 2
3. Protect from light
4. Freeze
5. Room Temperature (Avoid excessive heat)

(*Extraction Code:)
L/L - Liquid/Liquid
SON - Sonication
SEP - Separatory Funnel
SOX - Soxhlet
SPE - Solid Phase Extraction

Action Code:
J - Estimate (J) Detected Values
UJ - Estimate (UJ) Non-Detected Values
R - Reject (R) Non-Detected Values

Validator: _____ Date: _____

EPA R1 Data Validation Worksheet
VOA/SV-II-A

Case: _____ SDG: _____

II A. GC/MS INSTRUMENT PERFORMANCE CHECK – (TUNING) **Note: NOT for Selected Ion Monitoring (SIM) Analysis**

List all Instrument Performance Checks that are outside method QC tuning acceptance criteria.

VOA Instrument Performance Check (Compound Name)	Analysis Date and Time	Instrument	Ions Affected	Percent Relative Abundance	QC Limits	Samples Affected	Action
Comments:							

SV Instrument Performance Check (Compound Name)	Analysis Date and Time	Instrument	Ions Affected	Percent Relative Abundance	QC Limits	Samples Affected	Action
Comments:							

If tuning compounds and criteria are different from those specified in CLP SOW SFAM01.X, the validator should include a copy of the method-specific tuning criteria with this worksheet.

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
VOA/SV-II-B

Case: _____ SDG: _____

II B. GC/MS INSTRUMENT PERFORMANCE CHECK – 12-hour clock

List all Instrument Performance Checks and/or calibration standards that were analyzed beyond the 12-hour requirement.

Fraction (VOA or SV)	Tune Standard or CCV ID	Injection Date and Time	Time Elapsed (hours)	Samples Affected	Action

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
Pest/PCB-II-A

Case: _____ SDG: _____

II A. GC/ECD INSTRUMENT PERFORMANCE CHECK - Resolution - List all analytes that are outside resolution criteria.

RCM (Section II)	Date/Time	Instr.	Column	Compound	% Resolution	Samples Affected	Action
PEM (Section II and IV)							
INDA & B (Section III)							
INDA & B (Section IV)							

Validator:_____ Date:_____

Case: _____ SDG: _____

II B. GC/ECD INSTRUMENT PERFORMANCE CHECK - Retention Times - List all analytes that exceed retention time criteria.

PEM (Section II and IV)	Date/Time	Instr.	Column	Compound	RT Window	RT	Samples Affected	Action
INDA & B (Section IV)								

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
Pest/PCB-II-C

Case: _____ SDG: _____

II C. GC/ECD INSTRUMENT PERFORMANCE CHECK - Accuracy Check of Initial Calibration

List all analytes that are outside the %D criteria.

PEM Sample ID	Date/Time	Instr.	Column	Compound	%D	Samples Affected	Action

Validator:_____ Date:_____

Case: _____ SDG: _____

II D. GC/ECD INSTRUMENT PERFORMANCE CHECK - Pesticide Degradation - List all analytes that exceed degradation criteria.

PEM (Section II)	Date/Time	Instr.	Column	DDT, Endrin, or Combined	% Breakdown	DDD, DDE, Endrin ketone, Endrin aldehyde Present	Samples Affected	Action
PEM (Section IV)								

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
VOA/SV-III

Case: _____ SDG: _____

III. INITIAL CALIBRATION - List all analytes that are outside calibration criteria.

Date of ICAL	Instrument	Fraction	Matrix	Compound	%RSD	RRF*	Samples Affected	Action (Detect/ND)
Comments:								

* RRF and average RRF

Did the laboratory follow the correct 12-hour clock analytical sequence? If no, fill out Worksheet VOA/SV-II B. **Y N**

Did the laboratory analyze the initial calibration at the appropriate levels? **Y N**

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
Pest/PCB-III

Case: _____ SDG: _____

III. INITIAL CALIBRATION - List all analytes that are outside calibration criteria.

INDA/INDB, INDC, or Multicomponent	Date	Instrument	Column	Analytes	Recalculated RT Window	%RSD	Samples Affected	Action
A. % RSD Linearity								
B. Retention Time Windows								

Did the laboratory follow the correct analytical sequence? **Y N**

Did the laboratory analyze the initial calibration at the appropriate concentration levels? **Y N**

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
VOA/SV-IV

Case: _____ SDG: _____

IV. CONTINUING CALIBRATION - List all analytes that are outside calibration criteria.

Fraction (VOA/SV)	Instrument	Date of ICAL	Date & Time of CCAL	Matrix	Compound	%D	RRF	Samples Affected	Action (Detect/ND)

Comments:

Did the laboratory follow the correct 12-hour clock analytical sequence? If no, fill out Worksheet VOA/SV-II B. **Y N**

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
Pest/PCB-IV-A

Case: _____ SDG: _____

IV A. CALIBRATION VERIFICATION - Accuracy Check (%D) - List all analytes that are outside calibration criteria.

Standard ID	Date	Time	Instrument	Column	Analyte	%D	Samples Affected	Action (Detect/ND)

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
Pest/PCB-IV-B

Case: _____ SDG: _____

IV B. CALIBRATION VERIFICATION – Time Elapsed - List all non-compliant standards.

Fraction (PEST or PCB)	Instrument and Column ID	Instrument Blank or Sample ID	Injection Date and Time	Time Elapsed (hours)	Samples Affected	Action (Detect/ND)

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
VOA/SV/Pest/PCB-V-A

Case: _____ SDG: _____

V A. BLANK ANALYSIS - List the blank contamination below. Concentration Level:_____

Sampler: _____ Company: _____ Contacted: Yes No Date:_____

1. Laboratory: Method, Storage and Instrument Blanks

Fraction/ Matrix	Sample ID (Blank Type)	Date Extracted	Date Analyzed	Instrument/ Column	Compound	Conc. (units)

2. Field: Equipment (Rinsate), Trip and Bottle Blanks

Fraction/ Matrix	Sample ID (Blank Type)	Date Extracted	Date Analyzed	Instrument/ Column	Compound	Conc. (units)

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
VOA/SV/Pest/PCB-V-B

Case: _____ SDG: _____

V. B. BLANK ACTIONS - List the maximum concentrations of blank compounds.

Compound	Type of Blank	Date Blank Sampled, Originated, or Analyzed	Max. Conc. (unit)	Blank CRQL (unit)	Blank 2xCRQL[1] (unit)	Blank 5xCRQL[2] (unit)	Samples Affected	Action

[1] For methylene chloride, 2-butanone, and acetone only.
[2] For bis(2-ethylhexyl)phthalate only.

Comments: _____

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
VOA-VI

Case: _____ SDG: _____

VI. DEUTERATED MONITORING COMPOUNDs (DMCs) – List all DMC recoveries that are outside the control limits.

NOTE: The same control limits are applied to the selected ion monitoring (SIM) analysis.

Method		Volatile Method QC Acceptance Criteria													
SFAM01.X		Vinyl chloride-d_3		Chloroethane-d_5		DCE		2-Butanone-d_5		Chloroform-d		DCA		Benzene-d_6	
		Water	Soil	Water	Soil	Water	Soil	Water	Soil	Water	Soil	Water	Soil	Water	Soil
	Trace	40-130	-	65-130	-	60-125	-	40-130	-	70-125	-	70-130	-	70-125	-
	L/M	60-135	30-150	70-130	30-150	60-125	45-110	40-130	20-135	70-125	40-150	70-125	70-130	70-125	20-135
Other:															
Sample ID	Matrix	% Recovery		% Recovery		% Recovery		% Recovery		% Recovery		% Recovery		% Recovery	

DCE= 1,1-Dichloroethene –d_2 DCA= 1,2-Dichloroethane-d_4

Note: Refer to NFG for guidance on actions required for failures in DMC recoveries.

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
VOA-VI (Cont'd)

Case: _____ SDG: _____

VI. DEUTERATED MONITORING COMPOUNDs (DMCs) – List all DMC recoveries that are outside the control limits.

NOTE: The same control limits are applied to the selected ion monitoring (SIM) analysis.

Method		Volatile Method QC Acceptance Criteria												
SFAM01.X		DPA		Toluene-d_8		TDP		2-Hexanone-d_5		TCA		DCZ		
		Water	Soil	Water	Soil	Water	Soil	Water	Soil	Water	Soil	Water	Soil	
	Trace	60-140	-	70-130	-	65-120	-	45-130	-	65-120	-	80-120	-	
	L/M	70-120	70-120	80-120	30-130	65-120	45-120	45-130	20-135	65-120	45-120	80-120	75-120	
Other:														
Sample ID	Matrix	% Recovery		% Recovery		% Recovery		% Recovery		% Recovery		% Recovery		

DPA= 1,2-Dichloropropane –d_6 TDP= trans-1,3-Dichloropropene-d_4 TCA= 1,1,2,2-Tetracholoroethane-d_2 DCZ= 1,2-Dichlorobenzene-d_4

Note: Refer to NFG for guidance on actions required for failures in DMC recoveries.

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
SV-VI-A

Case: _____ SDG: _____

VI A. DEUTERATED MONITORING COMPOUNDs (DMCs) – List all DMC recoveries that are outside the control limits.

Method		Semi-Volatile Method QC Acceptance Criteria															
SFAM01.X		1,4-Dioxane-d_8		Pyridine-d_5		Phenol-d_5		BCE		2CP		4MP		NBZ		2NP		DCP	
		Water	Soil	Water	Soil	Water	Soil	Water	Soil	Water	Soil	Water	Soil	Water	Soil	Water	Soil	Water	Soil
		15-120*	15-120*	20-120*	-	10-130	10-130	25-120	10-150	20-130	15-120	25-125	10-140	20-125	10-135	20-130	10-120	20-120	10-140
Other:																			
Sample ID	Matrix	% Recovery		% Recovery		% Recovery		% Recovery		% Recovery		% Recovery		% Recovery		% Recovery		% Recovery	

BCE= Bis(2-chloroethyl)ether-d_8 2CP= 2-Chlorophenol-d_4 4MP= 4-Methyhlphenol-d_8 NBZ= Nitrobenzene-d_5 2NP= 2-Nitrophenol-d_4 DCP= 2,4-Dichlorophenol-d_3

*Advisory Limits
Note: Refer to NFG for guidance on actions required for failures in DMC recoveries.

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
SV-VI-A (Cont'd)

Case: _____ SDG: _____

VI A. DEUTERATED MONITORING COMPOUNDs (DMCs) – List all DMC recoveries that are outside the control limits.

Method		Semi-Volatile Method QC Acceptance Criteria															
SFAM01.X		4CA		DMP		ACY		4NP		FLR		NMP		ANC		PYR		BAP	
		Water	Soil	Water	Soil	Water	Soil	Water	Soil	Water	Soil	Water	Soil	Water	Soil	Water	Soil	Water	Soil
		1-146*	1-145*	47-114	43-111	41-107	20-97	33-116	16-166	42-111	40-108	22-104	1-121	44-110	22-98	52-119	51-120	32-121	43-111
Other:																			
Sample ID	Matrix	% Recovery		% Recovery		% Recovery		% Recovery		% Recovery		% Recovery		% Recovery		% Recovery		% Recovery	

4CA= 4-Chloroaniline-d_4 DMP=Dimethylphthalate-d_6 ACY=Acenaphthylene-d_8 4NP=4-Nitrophenol-d_4
FLR=Fluorene-d_{10} NMP=4,6-Dinitro-2-methylphenol-d_2 ANC=Anthracene-d_{10} PYR=Pyrene-d_{10}
BAP=Benzo(a)pyene-d_{12}

*Advisory Limits
Note: Refer to NFG for guidance on actions required for failures in DMC recoveries.

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
SV-VI-B

Case: _____ SDG: _____

VI B. DEUTERATED MONITORING COMPOUNDs (DMCs) for SIM – List all DMC recoveries that are outside the control limits.

Method		Semi-Volatiles by Selected Ion Monitoring Analysis Method QC Acceptance Criteria								
SFAM01.X		**Fluoranthene-d_{10}**			**2-Methylnaphthalene-d_{10}**			**1,4-Dioxane-d_8**		
		Water 30-130	Soil 30-130	Affected Analytes / Action (Detect/ ND)	Water 30-130	Soil 20-140	Affected Analytes / Action (Detect/ ND)	Water 15-120*	Soil 15-120*	Affected Analytes / Action (Detect/ ND)
Other:										
Sample ID	Matrix	% Recovery			% Recovery			% Recovery		
				Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,2-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene			Naphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Fluorene, Pentachlorophenol, Phenanthrene, Anthracene			1,4-Dioxane	

*Advisory Limits
Note: Refer to NFG for guidance on actions required for failures in DMC recoveries.

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
Pest/PCB-VI

Case: _____ SDG: _____

VI. SURROGATE COMPOUNDS: Spike Recoveries and Retention Time Shift

List all surrogate analytes that are outside the percent recovery and retention time criteria.

Method		% Recovery QC Limits				Retention Time Windows				
		Column 1 _____		Column 2 _____		Column 1 _____		Column 2 _____		
		TCX	DCB	TCX	DCB	TCX	DCB	TCX	DCB	
SFAM01.X		30-150	30-150	30-150	30-150					
Other:										
Sample Number/Matrix	**Date/Time**	**% Recovery**				**Retention Time Shift**				**Action**

Note: Refer to NFG for guidance on actions required for failures in surrogate recoveries.

Validator:_____ Date:_____

Case: _____ SDG: _____

VII. SEMIVOLATILE CLEANUP - GPC Calibration and Verification– List all analytes that are outside method cleanup QC criteria.

Type of Cleanup	Instrument # or Lot #	Date/Time GPC Calibrated or Check Solution Analyzed	Compound	% Rec	QC Limits	Samples Affected	Action

Did the GPC column meet: resolution requirements? **Y N**
Peak shape requirements? **Y N**
Retention time shift requirements? **Y N**

Was the GPC calibration, Silica Gel cleanup checked at the method required frequency with correct compounds and concentrations? **Y N**

Were all compounds less than QL for the GPC/Silica Gel/Acid-Partition blank? **Y N**

Did the blank surrogate recoveries and IS area counts and RTs (if added) meet method QC acceptance criteria? **Y N**

Comments:

_____

_____

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
Pest/PCB-VII-A

Case: _____ SDG: _____

VII A. PESTICIDE/PCB CLEANUP - GPC Calibration and Verification

The GPC Calibration data and GPC Calibration Verification Solution recovery data were reviewed and found to meet criteria. **Y N NA**

If no, list the compounds and samples affected by the unacceptable GPC performance.

Date/Time of GPC Calibration or Calib. Verification	GC Analysis Date	Analyte	GPC % Resolution or RT Shift	% Rec	QC Limits	Samples Affected	Action

Were all target compounds less than QL for the GPC blank? **Y N**

Were acceptable GPC Calibration Verifications performed at the correct frequency? **Y N**

Were Aroclor patterns similar to those corresponding Aroclor standards of the Initial Calibration sequence? **Y N**

Action: Refer to NFG for the appropriate action to be taken. Comment on any action taken below:

_____

_____

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
Pest/PCB-VII-B

Case: _____ SDG: _____

VII B. PESTICIDE/PCB CLEANUP - Florisil Cartridge Performance Check

The Florisil Cartridge Performance Check recovery data were reviewed and found to meet criteria. **Y N**

If no, list the analytes and samples affected by the unacceptable Florisil Cartridge Check.

Florisil Cartridge Lot #	Date of Florisil Cartridge Check	GC Analysis Date	Analyte	% Rec.	QC Limits	Samples Affected	Action

Were acceptable Florisil Cartridge Performance Checks performed at the correct frequency? **Y N**

Action: Refer to NFG for the appropriate action to be taken. Comment on any action taken below:

_____

_____

Validator:_____ Date:_____

Case: _____ SDG: _____

VII C. PESTICIDE/PCB CLEANUP - Sulfur Cleanup

Sample chromatograms were reviewed and found to be free from interfering sulfur peaks. **Y N**

If no, list the compounds and samples affected by the unacceptable sulfur cleanup.

Samples Affected	Sulfur Interference (Major/Minor/Limited)	Action

Were all target compounds less than QL for the Sulfur blank? **Y N**

Action: Refer to EPA R1 DR Supplement guidance (Section 2.9) for actions to be taken for deficient sulfur cleanup. Comment on any action taken below.

_____

_____

_____

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
Pest/PCB-VII-D

Case: _____ SDG: _____

VII D. PESTICIDE/PCB CLEANUP - Other Cleanup Procedures

Cleanup Procedure: _____, appropriate for samples? **Y N**

Cleanup also performed for associated QC samples? **Y N**

Sample chromatograms were reviewed and found to be free from interferences. **Y N**

If no, list the analytes and samples affected by the unacceptable cleanup procedure.

Samples Affected	Description and Degree of Interference (Major/Minor/Limited)	Action

Comments:

_____

_____

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
VOA/SV/Pest/PCB-VIII

Case: _____ SDG: _____

VIII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE - List all MS/MSD analytes that are outside method QC acceptance criteria. Use a separate worksheet for each MS/MSD pair.

Sample # _____ Matrix_____ Concentration Level _____

Fraction	Compound	Column 1			Column 2*			Method QC Limits		Action
		MS % Rec.	MSD % Rec.	RPD	MS % Rec.	MSD % Rec.	RPD	% Recovery	RPD	

* For Pest/PCB only.

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
VOA/SV/Pest/PCB-IX

Case: _____ SDG: _____

IX. FIELD DUPLICATE PRECISION - List all field duplicate analytes that are outside criteria.
Use a separate worksheet for each field duplicate pair.

Sample Number _____ Duplicate Sample Number _____ Matrix _____

Fraction	Compound	Sample Conc.	Sample QL		Duplicate Conc.	Duplicate QL		RPD	QC Acceptance Criteria RPD or NA*	Action
			SQL	2xSQL		SQL	2xSQL			

*For instances where one duplicate result is ND (or reported less than the sample QL).

Does the MS/MSD data indicate acceptable laboratory precision? **Y N**

Refer to EPA R1 DR Supplement guidance for field duplicate actions (Section 2.7).

Comments: _____

_____

Sampler Name: _____ Contractor Name: _____ Date Contacted: _____

Reason for Contact and resolution obtained: _____

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
VOA/SV/Pest/PCB-X-A

Case: _____ SDG: _____

X A. ACCURACY CHECK (**Performance Evaluation Results**) - List all analytes that are outside criteria.

Are more than one-half of the PES analytes within criteria for each parameter? **Y N**

PE Sample Number	Ampule Number	Fraction	Type of PES	Matrix	Analyte	Conc.	Region I EPA PES Scores*	Non-EPA PES Scores**	Samples Affected	Action

Refer to NFG for PES actions.

* For Region I PESs indicate the Region I PES Score Report Result: Action High; Action Low; TCL MISS; TCL CONTAMINANT; TIC HIT; TIC MISS; TIC CONTAMINANT

** For Non-EPA PESs indicate the non-EPA PES Score: PES COMPOUND MISS; PES COMPOUND CONTAMINANT; PES COMPOUND HIT (% Recovery Limits)

Validator:_____ Date:_____

Case: _____ SDG: _____

X B. ACCURACY CHECK (**Laboratory Control Sample [LCS] Results) -** List all analytes that are outside criteria.

LCS ID	Matrix	Method	Fraction	Compound	Acceptable %R Range	Column 1 LCS %R	Column 2 LCS %R	Samples Affected	Action

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
VOA/SV-XI

Case: _____ SDG: _____

XI. INTERNAL STANDARD PERFORMANCE

List the internal standards that are outside the area count and retention time method QC acceptance criteria.

IS Area Count Method QC acceptance criteria: _____

IS Retention Time Method QC acceptance criteria: _____

Sample Number (TRs)	Date and Time Analyzed	Instrument	Fraction	Non-Compliant Internal Standard	Internal Standard Area	RT Shift	Acceptable Range (IS area or RT shift)	Action

Validator:_____ Date:_____

Case: _____ SDG: _____

XII. TARGET COMPOUND IDENTIFICATION – List the analytes that are outside the acceptance criteria.

Sample Number	Compound	MS Ions	RRT	Action

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
Pest/PCB-XII

Case: _____ SDG: _____

XII. ANALYTE IDENTIFICATION

List samples below that contained false positive and/or negative reported results, and samples that contained detected compounds which have a percent difference greater than ±25% between the two columns.

Sample ID	Analyte	Column 1 ID:			Column 2 ID:			%D	Action
		RT	RT Window	Conc.	RT	RT Window	Conc.		

Was GC/MS Confirmation performed for the appropriate samples? **Y N**

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
VOA/SV-XIII

Case: _____ SDG: _____

XIII. SAMPLE QUANTITATION AND % SOLIDS

Recalculate, from the raw data, the concentrations for one positive detect and one reported sample quantitation limit for a non-detect in a diluted sample or soil sample per fraction. (Note: Although NFG requires that one calculation for each fraction in each sample be performed, the validator is only required to reproduce an example, for each fraction, of one positive detect and one sample quantitation limit calculation on this worksheet.)

Do all soil/sediment samples have % solids greater than or equal to 30%? **Y N**

If no, list sample numbers_____
Refer to EPA R1 DR Supplement guidance for actions related to %solids (Section 2.8).

Fraction		Calculation
VOA		
Sample No.:		
Reported Compound:		
Reported Value:		
Not Detected Compound:		
Reported Quantitation Limit:		
BNA		
Sample No.:		
Reported Compound:		
Reported Value:		
Not Detected Compound:		
Reported Quantitation Limit:		

Validator:_____ Date:_____

EPA R1 Data Validation Worksheet
Pest/PCB-XIII

Case: _____ SDG: _____

XIII. SAMPLE QUANTITATION AND %SOLIDS

Recalculate, from the raw data, the concentrations for one positive detect and one reported sample quantitation limit for a non-detect in a diluted sample or soil sample per fraction. (Note: Although NFG requires that one calculation for each fraction in each sample be performed, the validator is only required to reproduce an example, for each fraction, of one positive detect and one sample quantitation limit calculation on this worksheet.)

Do all soil/sediment samples have % solids greater than or equal to 30%? **Y N**

If no, list sample numbers_____
Refer to EPA R1 DR Supplement guidance for actions related to %solids (Section 2.8).

Fraction		Calculation
Pesticides		
Sample No.:		
Reported Compound:		
Reported Value:		
Not Detected Compound:		
Reported Quantitation Limit:		
Aroclors		
Sample No.:		
Reported Compound:		
Reported Value:		
Not Detected Compound:		
Reported Quantitation Limit:		

Validator:_____ Date:_____

Case: _____ SDG: _____

XIV. TENTATIVELY IDENTIFIED COMPOUNDS (TICs)

List the 5 TICs having the highest concentration for each sample parameter.

Sample Number	Fraction	Compound	RRT	Est. Conc.	Action

Validator:_____ Date:_____