

Table	Title
1.1	Summary of Key Results
1.2	Summary of Key Operating Parameters
1.3	Summary of Deviations and Exceptions
2.1	Testing Schedule
3.1	Mass Feed Rates and Heat Input
3.2	Operating Data Summary for Condition ____
4.1	Waste Stream #1 Characterization
4.2	Waste Stream #2 Characterization
4.3	Constituent Feed Rates
4.4	Cross Reference Data Table for Feedstream Sampling and Analysis
5.1	Stack Sampling Summary of Actual Stack Gas Flow Rate, Dry Standard Stack Gas Flow Rate, Temperature, and Sampling Time
5.2	Method 0023A Sampling Train Operating Data (Dioxin/Furan)
5.3	PCDD/PCDF Emission Results TEQ Basis
5.4	Method 29 Sampling Train Operating Data (Multiple Metals)
5.5	Method 0061 Sampling Train Operating Data (Hexavalent Chromium)
5.6	Metal Emissions
5.7	Method 26A / 0050 Sampling Train Operating Data (PM, HCl, Cl <sub>2</sub> )
5.8	Method 5 Sampling Train Operating Data (Particle Size Distribution Determination (PSDD))
5.9	Emission Results for PM, HCl, and Cl <sub>2</sub>
5.10	Method 0010 Sampling Train Operating Data (Semivolatile Organics, TCO/GRAV)
5.11	Method 0030 Sampling Train Operating Parameters (VOST)
5.12	Method 0040 Sampling Train Operating Data (Tedlar Bags)
5.13	Volatile POHC Destruction and Removal Efficiency
5.14	Semivolatile POHC Destruction and Removal Efficiency
5.15	O <sub>2</sub> /CO/HC Emissions (CEMS Output)
5.16	Cross Reference Data Table for Stack Gas Sampling and Analysis
6.1	Ash Characterization
6.2	APCE Effluent #1 Characterization
6.3	APCE Effluent #2 Characterization
6.4	Other APCE Residue Characterization
6.5	Cross Reference Data Table for APCE Residue Sampling and Analysis
7.1	Summary of Analytical Methods and Procedures - Stack Gas Samples
7.2	Summary of Analytical Methods and Procedures - Feedstream Samples
7.3	Summary of Sampling and Analytical QA/QC: Stack Gas - Volatile Organics
7.4	Summary of Sampling and Analytical QA/QC: Stack Gas - Semi-Volatile Organics
7.5	Summary of Sampling and Analytical QA/QC: Stack Gas - Metals/Mercury
7.6	Summary of Sampling and Analytical QA/QC: Stack Gas - Particulates
7.7	Summary of Sampling and Analytical QA/QC: Stack Gas - PCDD/PCDF
7.8	Summary of Sampling and Analytical QA/QC: Stack Gas - HCl/Cl <sub>2</sub>
7.9	Summary of Sampling and Analytical QA/QC: Waste Feedstream #1 - Volatile Organics
7.10	Summary of Sampling and Analytical QA/QC: Waste Feedstream #1 - Semi-Volatile Organics
	<b>Add additional Summaries of Sampling and Analytical QA/QC as needed</b>
7.12	<i>Reserved</i>
7.13	Sampling Equipment Calibration Requirements and Results
8.1	Proposed Operating Limits
9.1	Method Detection Limits (MDL's) for Analytes Used in Risk Assessment
9.2	Total Organic Emissions (TOE)
9.3	VOC Emissions
9.4	SVOC Emissions
9.5	PAH Emissions
9.6	PCB Emissions - Totals
9.7	PCB Emissions - Coplanar
9.8	Particle Size Distribution Results



**Table 1.2  
Summary of Key Operating Data**

PARAMETER	UNITS	CONDITION 1						CONDITION 2						
		TARGET		RUN 1	RUN 2	RUN 3	AVERAGE	TARGET		RUN 1	RUN 2	RUN 3	AVERAGE	
Combustion Chamber Temperature	°F		Avg						Avg					
			Max						Max					
			Min						Min					
Combustion Chamber Pressure	in w.c.		Avg						Avg					
			Max						Max					
			Min						Min					
Total Hazardous Waste Flow	lb/hr		Avg						Avg					
			Max						Max					
			Min						Min					
Total Liquid Waste Flow	lb/hr		Avg						Avg					
			Max						Max					
			Min						Min					
Ash Feed Rate	lb/hr		Avg						Avg					
			Max						Max					
			Min						Min					
Total Chloride Feed Rate	lb/hr		Avg						Avg					
			Max						Max					
			Min						Min					
SVM Feed Rate	lb/hr		Avg						Avg					
			Max						Max					
			Min						Min					
LVM Feed Rate	lb/hr		Avg						Avg					
			Max						Max					
			Min						Min					
Mercury Feed Rate	lb/hr		Avg						Avg					
			Max						Max					
			Min						Min					
Atomizing Pressure	psig		Avg						Avg					
			Max						Max					
			Min						Min					
Liquid Fuel Pressure	psig		Avg						Avg					
			Max						Max					
			Min						Min					
Waste as-fired Viscosity	cP		Avg						Avg					
			Max						Max					
			Min						Min					
Auxiliary Fuel Flowrate	lb/min		Avg						Avg					
			Max						Max					
			Min						Min					
Steam Production	Thousand lb/hr		Avg						Avg					
			Max						Max					
			Min						Min					

**Table 1.2  
Summary of Key Operating Data**

PARAMETER	UNITS	CONDITION 1						CONDITION 2					
		TARGET		RUN 1	RUN 2	RUN 3	AVERAGE	TARGET		RUN 1	RUN 2	RUN 3	AVERAGE
Stack Gas Carbon Monoxide	ppmv		Avg						Avg				
			Max						Max				
			Min						Min				
Stack Gas Oxygen Concentration	%		Avg						Avg				
			Max						Max				
			Min						Min				
Stack Gas Carbon Monoxide (corrected to 7% oxygen)	ppmv		Avg						Avg				
			Max						Max				
			Min						Min				
Combustion Gas Flow Rate	scfm		Avg						Avg				
			Max						Max				
			Min						Min				
Baghouse Inlet Thermocouple #1	°F		Avg						Avg				
			Max						Max				
			Min						Min				
Baghouse Inlet Thermocouple #2	°F		Avg						Avg				
			Max						Max				
			Min						Min				
Baghouse Differential Pressure	in. w.c.		Avg						Avg				
			Max						Max				
			Min						Min				
Wet Scrubber L/G ratio	gpm/acfm		Avg						Avg				
			Max						Max				
			Min						Min				
Wet Scrubber Pressure Drop	in w.c.		Avg						Avg				
			Max						Max				
			Min						Min				
Wet Scrubber Liquid Feed Pressure	in w.c.		Avg						Avg				
			Max						Max				
			Min						Min				
Wet Scrubber Recirculation Flow	gpm		Avg						Avg				
			Max						Max				
			Min						Min				
Wet Scrubber Blowdown	gpm		Avg						Avg				
			Max						Max				
			Min						Min				
Wet Scrubber Sump Level	in		Avg						Avg				
			Max						Max				
			Min						Min				
Wet Scrubber pH	pH units		Avg						Avg				
			Max						Max				
			Min						Min				

**Table 1.3  
Summary of Deviations and Exceptions**

Test Element	Deviation/Exception (reference deviation from what is in CPTP, QAPP,etc.)	Significance of Deviation	Corrective Action
<b>Stack Sampling</b>			
Example: Stack sampling time			
<b>Process Sampling</b>			
Example: Ash Collection and Analysis			
<b>Miscellaneous</b>			
Example: Soot Blowing			
<b>Analytical</b>			
Example: VOST Audit			



**Table 3.1**  
**Mass Feed Rates and Heat Input**

PARAMETER	UNITS	TARGET	RUN 1	RUN 2	RUN 3	AVERAGE
Total Mass Feed Rate	lb/hr					
Total Heat Input	MMBtu/hr					
Waste Stream #1 Mass Feed Rate	lb/hr					
Waste Stream #1 Heating Value	Btu/lb					
Waste Stream #1 Heat Input	MMBtu/hr					
Waste Stream #2 Mass Feed Rate	lb/hr					
Waste Stream #2 Heating Value	Btu/lb					
Waste Stream #2 Heat Input	MMBtu/hr					
Waste Stream #3 Mass Feed Rate	lb/hr					
Waste Stream #3 Heating Value	Btu/lb					
Waste Stream #3 Heat Input	MMBtu/hr					
Waste Stream #4 Mass Feed Rate	lb/hr					
Waste Stream #4 Heating Value	Btu/lb					
Waste Stream #4 Heat Input	MMBtu/hr					
Vent Stream Feed Rate	acfm					
Vent Stream Heating Value	Btu/lb					
Vent Stream Heat Input	MMBtu/hr					
Auxiliary Fuel Feed Rate	lb/hr					
Auxiliary Fuel Heating Value	Btu/lb					
Auxiliary Fuel Heat Input	MMBtu/hr					
POHC #1 Feed Rate	lb/hr					
POHC #2 Feed Rate	lb/hr					
POHC #3 Feed Rate	lb/hr					

**Table 4.1  
Waste Stream #1 Characterization**

PARAMETER	UNITS	RUN 1	RUN 2	RUN 3	AVERAGE
Feedstream Flow Rate	gpm	Max			
		Min			
		Ave			
Ash content	% by wt.				
Density	g/cm <sup>3</sup>				
Temperature when sampled	°F				
Viscosity (at Temp. when sampled)	cP				
<b>Chlorine &amp; Chlorides</b>					
Organic Chlorides	ppm				
Inorganic Chlorides	ppm				
<b>Metals</b>					
Antimony	mg/kg				
Arsenic	mg/kg				
Barium	mg/kg				
Beryllium	mg/kg				
Cadmium	mg/kg				
Chromium	mg/kg				
Lead	mg/kg				
Mercury	mg/kg				
Nickel	mg/kg				
Selenium	mg/kg				
Silver	mg/kg				
Thallium	mg/kg				
<b>POHCs</b>					
(POHC #1)	ppm				
(POHC #2)	ppm				
<b>Volatile Organic Compounds (VOCs)</b>					
(VOC #1)	ppm				
(VOC #2)	ppm				
<b>Semivolatile Organic Compounds (SVOCs)</b>					
(SVOC #1)	ppm				
(SVOC #2)	ppm				
<b>PCBs</b>					
Monochlorobiphenyls	µg/kg				
Dichlorobiphenyls	µg/kg				
Trichlorobiphenyls	µg/kg				
Tetrachlorobiphenyls	µg/kg				
Pentachlorobiphenyls	µg/kg				
Hexachlorobiphenyls	µg/kg				
Heptachlorobiphenyls	µg/kg				
Octachlorobiphenyls	µg/kg				
Nonachlorobiphenyls	µg/kg				
Decachlorobiphenyls	µg/kg				



**Table 4.2**  
**Waste Stream #2 Characterization**

PARAMETER	UNITS	RUN 1	RUN 2	RUN 3	AVERAGE
Feedstream Flow Rate	gpm	Max			
		Min			
		Ave			
Ash content	% by wt.				
Density	g/cm <sup>3</sup>				
Temperature when sampled	°F				
Viscosity (at Temp. when sampled)	cP				
<b>Chlorine &amp; Chlorides</b>					
Organic Chlorides	ppm				
Inorganic Chlorides	ppm				
<b>Metals</b>					
Antimony	mg/kg				
Arsenic	mg/kg				
Barium	mg/kg				
Beryllium	mg/kg				
Cadmium	mg/kg				
Chromium	mg/kg				
Lead	mg/kg				
Mercury	mg/kg				
Nickel	mg/kg				
Selenium	mg/kg				
Silver	mg/kg				
Thallium	mg/kg				
<b>POHCs</b>					
(POHC #1)	ppm				
(POHC #2)	ppm				
(POHC #3)	ppm				
<b>Volatile Organic Compounds (VOCs)</b>					
(VOC #1)	ppm				
(VOC #2)	ppm				
<b>Semivolatile Organic Compounds (SVOCs)</b>					
(SVOC #1)	ppm				
(SVOC #2)	ppm				
<b>PCBs</b>					
Monochlorobiphenyls	µg/kg				
Dichlorobiphenyls	µg/kg				
Trichlorobiphenyls	µg/kg				
Tetrachlorobiphenyls	µg/kg				
Pentachlorobiphenyls	µg/kg				
Hexachlorobiphenyls	µg/kg				
Heptachlorobiphenyls	µg/kg				
Octachlorobiphenyls	µg/kg				
Nonachlorobiphenyls	µg/kg				
Decachlorobiphenyls	µg/kg				





**Table 5.1**  
**Stack Sampling Summary of Actual Stack Gas Flow Rate,**  
**Dry Standard Stack Gas Flow Rate,**  
**Temperature, and Sampling Time**

Parameter	Units	Condition A				Condition B			
		Run 1	Run 2	Run 3	Avg.	Run 1	Run 2	Run 3	Avg.
Particulate Train	acfm								
	dscfm								
	°F								
	min								
PSD Train	acfm								
	dscfm								
	°F								
	min								
Method X Train	acfm								
	dscfm								
	°F								
	min								
Method Y Train	acfm								
	dscfm								
	°F								
	min								
Method Z Train	acfm								
	dscfm								
	°F								
	min								
Hex. Chromium Train	acfm								
	dscfm								
	°F								
	min								



**Table 5.3  
PCDD / PCDF Emission Results, TEQ Basis**

	Run No.	1			2			3		
	Date									
	Start Time									
	Stop Time									
	Units									
PCDD / PCDF Congeners	TEF	pg/sample	ng/m <sup>3</sup> TEQ	g/s	pg/sample	ng/m <sup>3</sup> TEQ	g/s	pg/sample	ng/m <sup>3</sup> TEQ	g/s
2,3,7,8-TCDD	1.0									
<b>TOTAL TCDD</b>										
1,2,3,7,8-PeCDD	0.5									
<b>TOTAL PeCDD</b>										
1,2,3,4,7,8-HxCDD	0.1									
1,2,3,6,7,8-HxCDD	0.1									
1,2,3,7,8,9-HxCDD	0.1									
<b>TOTAL HxCDD</b>										
1,2,3,4,6,7,8-HpCDD	0.01									
<b>TOTAL HpCDD</b>										
OCDD	0.001									
2,3,7,8-TCDF	0.1									
<b>TOTAL TCDF</b>										
1,2,3,7,8-PeCDF	0.05									
2,3,4,7,8-PeCDF	0.5									
<b>TOTAL PeCDF</b>										
1,2,3,4,7,8-HxCDF	0.1									
1,2,3,6,7,8-HxCDF	0.1									
2,3,4,6,7,8-HxCDF	0.1									
1,2,3,7,8,9-HxCDF	0.1									
<b>TOTAL HxCDF</b>										
1,2,3,4,6,7,8-HpCDF	0.01									
1,2,3,4,7,8,9-HpCDF	0.01									
<b>TOTAL HpCDF</b>										
OCDF	0.001									
<b>TOTAL TEQ's (ng/m<sup>3</sup>)</b>										
<b>TOTAL TEQ's (ng/m<sup>3</sup> @ 7% O<sub>2</sub>)</b>										
<b>TOTAL TEQ's (g/s)</b>										







**Table 5.6  
Metal Emissions**

Metal	Units	Condition A				Condition B			
		Run 1	Run 2	Run 3	Average	Run 1	Run 2	Run 3	Average
Antimony	g/sec								
	μg/dscm (@ 7% O <sub>2</sub> )								
Arsenic	g/sec								
	μg/dscm (@ 7% O <sub>2</sub> )								
Barium	g/sec								
	μg/dscm (@ 7% O <sub>2</sub> )								
Beryllium	g/sec								
	μg/dscm (@ 7% O <sub>2</sub> )								
Cadmium	g/sec								
	μg/dscm (@ 7% O <sub>2</sub> )								
Total Chromium	g/sec								
	μg/dscm (@ 7% O <sub>2</sub> )								
Chrome 6	g/sec								
	μg/dscm (@ 7% O <sub>2</sub> )								
Lead	g/sec								
	μg/dscm (@ 7% O <sub>2</sub> )								
Mercury	g/sec								
	μg/dscm (@ 7% O <sub>2</sub> )								
Nickel	g/sec								
	μg/dscm (@ 7% O <sub>2</sub> )								
Selenium	g/sec								
	μg/dscm (@ 7% O <sub>2</sub> )								
Silver	g/sec								
	μg/dscm (@ 7% O <sub>2</sub> )								
Thallium	g/sec								
	μg/dscm (@ 7% O <sub>2</sub> )								
<i>Total Semivolatile (Cd, Pb)</i>	g/sec								
	μg/dscm (@ 7% O <sub>2</sub> )								
<i>Total Low Volatile (As, Be, Cr)</i>	g/sec								
	μg/dscm (@ 7% O <sub>2</sub> )								





**Table 5.9  
Emission Results for PM, HCl, and Cl<sub>2</sub>**

Parameter	Units	Run 1	Run 2	Run 3	Average for Condition
<b>PARTICULATE EMISSION RESULTS</b>					
Front Half Rinse	mg				
Particulate Filter	mg				
Total Particulate	mg				
Particulate Concentration	grains/dscf				
Particulate Concentration	µg/dscm				
Emission Rate	lb/hr				
<b>HCl EMISSION RESULTS</b>					
Impinger Volume	mL				
Total (Equivalent) HCl	mg/L				
Total (Equivalent) HCl	ppm				
Emission Rate (as HCl)	lb/hr				
<b>Cl<sub>2</sub> EMISSION RESULTS</b>					
Impinger Volume	mL				
Total (Equivalent) Cl <sub>2</sub>	mg/L				
Total (Equivalent) Cl <sub>2</sub>	ppm				
Emission Rate (as Cl <sub>2</sub> )	lb/hr				
<b>TOTAL CHLORIDES EMISSIONS RESULTS</b>					
Total Chlorides	ppm				
Total Chlorides Emissions Rate	lb/hr				

















**Table 6.1**  
**Ash Characterization**

PARAMETER	UNITS	RUN 1	RUN 2	RUN 3	AVERAGE
<b>Chlorine &amp; Chlorides</b>					
Chlorine	ppm				
HCl	ppm				
<b>Metals</b>					
Antimony	ppm				
Arsenic	ppm				
Barium	ppm				
Beryllium	ppm				
Cadmium	ppm				
Chromium	ppm				
Lead	ppm				
Mercury	ppm				
Nickel	ppm				
Selenium	ppm				
Silver	ppm				
Thallium	ppm				
<b>POHCs</b>					
(POHC #1)	ppm				
(POHC #2)	ppm				
<b>Volatile Organic Compounds (VOCs)</b>					
(VOC #1)	ppm				
(VOC #2)	ppm				
<b>Semivolatile Organic Compounds (SVOCs)</b>					
(SVOC #1)	ppm				
(SVOC #2)	ppm				

**Table 6.2**  
**APCE Effluent #1 Characterization**

PARAMETER	UNITS	RUN 1	RUN 2	RUN 3	AVERAGE
<b>Chlorine &amp; Chlorides</b>					
Chlorine	ppm				
HCl	ppm				
<b>Metals</b>					
Antimony	ppm				
Arsenic	ppm				
Barium	ppm				
Beryllium	ppm				
Cadmium	ppm				
Chromium	ppm				
Lead	ppm				
Mercury	ppm				
Nickel	ppm				
Selenium	ppm				
Silver	ppm				
Thallium	ppm				
<b>POHCs</b>					
(POHC #1)	ppm				
(POHC #2)	ppm				
<b>Volatile Organic Compounds (VOCs)</b>					
(VOC #1)	ppm				
(VOC #2)	ppm				
<b>Semivolatile Organic Compounds (SVOCs)</b>					
(SVOC #1)	ppm				
(SVOC #2)	ppm				

**Table 6.3**  
**APCE Effluent #2 Characterization**

PARAMETER	UNITS	RUN 1	RUN 2	RUN 3	AVERAGE
<b>Chlorine &amp; Chlorides</b>					
Chlorine	ppm				
HCl	ppm				
<b>Metals</b>					
Antimony	ppm				
Arsenic	ppm				
Barium	ppm				
Beryllium	ppm				
Cadmium	ppm				
Chromium	ppm				
Lead	ppm				
Mercury	ppm				
Nickel	ppm				
Selenium	ppm				
Silver	ppm				
Thallium	ppm				
<b>POHCs</b>					
(POHC #1)	ppm				
(POHC #2)	ppm				
<b>Volatile Organic Compounds (VOCs)</b>					
(VOC #1)	ppm				
(VOC #2)	ppm				
<b>Semivolatile Organic Compounds (SVOCs)</b>					
(SVOC #1)	ppm				
(SVOC #2)	ppm				

**Table 6.4**  
**Other APCE Residue Characterization**

PARAMETER	UNITS	RUN 1	RUN 2	RUN 3	AVERAGE
<b>Chlorine &amp; Chlorides</b>					
Chlorine	ppm				
HCl	ppm				
<b>Metals</b>					
Antimony	ppm				
Arsenic	ppm				
Barium	ppm				
Beryllium	ppm				
Cadmium	ppm				
Chromium	ppm				
Lead	ppm				
Mercury	ppm				
Nickel	ppm				
Selenium	ppm				
Silver	ppm				
Thallium	ppm				
<b>POHCs</b>					
(POHC #1)	ppm				
(POHC #2)	ppm				
<b>Volatile Organic Compounds (VOCs)</b>					
(VOC #1)	ppm				
(VOC #2)	ppm				
<b>Semivolatile Organic Compounds (SVOCs)</b>					
(SVOC #1)	ppm				
(SVOC #2)	ppm				





**Table 7.1  
Summary of Analytical Methods and Procedures - Stack Gas Samples**

<b>Analysis</b>	<b>Sampling Method(s)</b>	<b>Prep Method(s) (if necessary)</b>	<b>Analytical Method(s)</b>	<b>Noted Deviations</b>
Volatile Organics				
Metals				
Particulates				
Dioxin/Furan				
HCl/Cl <sub>2</sub>				
Mercury				
Hexavalent Chromium				
Semivolatile Organics				
Total Chromatographable Organic Material				
PCBs				
PAHs				

The above Analyses are listed as examples only and may not include all analyses actually run.  
It is the responsibility of the facility to ensure the list incorporates all analyses actually run on the samples

**Table 7.2**  
**Summary of Analytical Methods and Procedures - Feedstream Samples**

<b>Analysis</b>	<b>Sampling Method(s)</b>	<b>Prep Method(s) (if necessary)</b>	<b>Analytical Method(s)</b>	<b>Discuss Any Deviations from Methods</b>
Volatile Organics				
Semivolatile Organics				
Heating Value				
Density				
Elemental				
Ash Content				
Total Chloride				

The above Analyses are listed as examples only and may not include all analyses actually run.  
 It is the responsibility of the facility to ensure the list incorporates all analyses actually run on the samples

**Table 7.3**  
**Summary of Sampling and Analytical QA/QC**

**Stack Gas - Volatile Organics**

**Condition**

Quality Control Check	Frequency	Acceptance Criteria	Loc. Of Raw Data in CPT Report	Noted Deviations
Initial Calibration				
Continuing Calibration				
Laboratory Control Sample				
BFB Tuning				
System Performance Check				
Calibration Check				
Surrogate Spike Recoveries				
Internal Standard Spike Recoveries				
Matrix spike/matrix spike duplicate				
<b>OR</b>				
Matrix spike/duplicate unspiked sample				
Method Blank				
EPA Audit Cylinder Analysis (if requested)				
Field Duplicate				
Equipment Rinsate				
Trip Blank				
Breakthrough Results				
Temperature of Samples as Received				
Holding Time				

The above Quality Control Checks parameters are listed as examples only and may not include all potential methods QA/QC parameters.

It is the responsibility of the facility to ensure the list incorporates all appropriate QA/QC parameters as defined in the CPT Plan and QAPP.

**Table 7.4**  
**Summary of Sampling and Analytical QA/QC**

**Stack Gas - Semi -Volatile Organics**

**Condition** \_\_\_\_\_

Quality Control Check	Frequency	Acceptance Criteria	Loc. Of Raw Data in CPT Report	Noted Deviations
Washing solution blanks				
Method blank (laboratory blank sorbent tubes, reagent water purge)				
Matrix spike/matrix spike duplicate <b>OR</b>				
Matrix spike/duplicate unspiked sample				
Laboratory Control Sample				
Internal Standard Spike				
DFTPP Tuning				
Initial calibration				
Calibration Verification				
Relative Retention Time Evaluation				
Surrogate Spikes				
Temperature of Samples as Received				
Holding Time				

The above Quality Control Checks parameters are listed as examples only and may not include all potential methods QA/QC parameters.  
It is the responsibility of the facility to ensure the list incorporates all appropriate QA/QC parameters as defined in the CPT Plan and QAPP.

**Table 7.5**  
**Summary of Sampling and Analytical QA/QC**

<b>Stack Gas - Metals/Mercury</b>	<b>Condition</b>			
Quality Control Check	Frequency	Acceptance Criteria	Loc. Of Raw Data in CPT Report	Noted Deviations
Field Reagent Blanks				
Duplicate Analysis for direct aspiration and/or graphite furnace AA analysis				
Post Digestion spike for direct aspiration and/or graphite furnace AA analysis				
Duplicate analysis for cold vapor AA analysis for mercury				
Post Digestion spike for cold vapor AA analysis for mercury				
Method Blank				
Matrix Spike Duplicate				
Continuing Calibration Verification				
Initial Calibration Verification				
Calibration blank				
Interference check sample				
Internal Standard Intensity				
Dilution Test				
Post-Digestion Spike				
Laboratory Control Sample				
Instrument Check Standard Test				
Temperature of Samples as Received				
Holding Time				

The above Quality Control Checks parameters are listed as examples only and may not include all potential methods QA/QC parameters. It is the responsibility of the facility to ensure the list incorporates all appropriate QA/QC parameters as defined in the CPT Plan and QAPP.

**Table 7.6**  
**Summary of Sampling and Analytical QA/QC**

**Stack Gas - Particulates**

**Condition** \_\_\_\_\_

Quality Control Check	Frequency	Acceptance Criteria	Loc. Of Raw Data in CPT Report	Noted Deviations
Water blank				
Acetone blank				
Field Duplicate				
Temperature of Samples as Received				
Holding Time				

The above Quality Control Checks parameters are listed as examples only and may not include all potential methods QA/QC parameters.  
 It is the responsibility of the facility to ensure the list incorporates all appropriate QA/QC parameters as defined in the CPT Plan and QAPP.

**Table 7.7**  
**Summary of Sampling and Analytical QA/QC**

<i>Stack Gas - PCDD/PCDF</i>	<i>Condition</i> _____			
Quality Control Check	Frequency	Acceptance Criteria	Loc. Of Raw Data in CPT Report	Noted Deviations
Reagent Blanks				
Proof Blanks				
Filter Surrogate Recoveries				
XAD-2 Surrogate Recoveries				
Equipment Rinsate				
Method Blank				
Fortified Field Blank				
GC Column Performance Check				
High-resolution Concentration Calibration				
Mass Resolution Check				
Fortified Rinsate Sample				
Duplicate Sample Analysis				
Matrix Spike and Matrix Spike Duplicate				
Continuing Calibration				
Internal Standard Recovery				
Temperature of Samples as Received				
Holding Time				

The above Quality Control Checks parameters are listed as examples only and may not include all potential methods QA/QC parameters. It is the responsibility of the facility to ensure the list incorporates all appropriate QA/QC parameters as defined in the CPT Plan and QAPP.

**Table 7.8**  
**Summary of Sampling and Analytical QA/QC**

**Stack Gas - HCl/Cl<sub>2</sub>**

**Condition** \_\_\_\_\_

Quality Control Check	Frequency	Acceptance Criteria	Loc. Of Raw Data in CPT Report	Noted Deviations
Reagent Water Blanks				
Sulfuric Acid Blanks				
Sodium Hydroxide Blanks				
Acetone Blanks				
Quality Control Check Sample				
Matrix Spike/Matrix Spike Duplicate				
Field Duplicate				
Equipment Rinsate				
Temperature of Samples as Received				
Holding Time				

The above Quality Control Checks parameters are listed as examples only and may not include all potential methods QA/QC parameters.  
It is the responsibility of the facility to ensure the list incorporates all appropriate QA/QC parameters as defined in the CPT Plan and QAPP.



**Table 7.9**  
**Summary of Sampling and Analytical QA/QC**

**Waste Feedstream #1 - Volatile Organics**

*Condition*

Quality Control Check	Frequency	Acceptance Criteria	Loc. Of Raw Data in CPT Report	Noted Deviations
Initial Calibration				
Continuing Calibration				
Laboratory Control Sample				
BFB Tuning				
System Performance Check				
Calibration Check				
Surrogate Spike Recoveries				
Internal Standard Spike Recoveries				
Matrix spike/matrix spike duplicate				
<b>OR</b>				
Matrix spike/duplicate unspiked sample				
Method Blank				
EPA Audit Cylinder Analysis (if requested)				
Field Duplicate				
Equipment Rinsate				
Trip Blank				
Breakthrough Results				
Temperature of Samples as Received				
Holding Time				

The above Quality Control Checks parameters are listed as examples only and may not include all potential methods QA/QC parameters.

It is the responsibility of the facility to ensure the list incorporates all appropriate QA/QC parameters as defined in the CPT Plan and QAPP.

**Table 7.10**  
**Summary of Sampling and Analytical QA/QC**

**Waste Feedstream #1 - Semi -Volatile Organics**

Quality Control Check	Frequency	Acceptance Criteria	Loc. Of Raw Data in CPT Report	Noted Deviations
Washing solution blanks				
Method blank (laboratory blank sorbent tubes, reagent water purge)				
Matrix spike/matrix spike duplicate <b>OR</b>				
Matrix spike/duplicate unspiked sample				
Laboratory Control Sample				
Internal Standard Spike				
DFTPP Tuning				
Initial calibration				
Calibration Verification				
Relative Retention Time Evaluation				
Surrogate Spikes				
Temperature of Samples as Received				
Holding Time				

The above Quality Control Checks parameters are listed as examples only and may not include all potential methods QA/QC parameters.  
It is the responsibility of the facility to ensure the list incorporates all appropriate QA/QC parameters as defined in the CPT Plan and QAPP.

**Table 7.13**  
**Sampling Equipment Calibration Requirements and Results**

Stack Sampling Equipment	Acceptance Criteria	Measurement Frequency	Results
<b>Volumetric Flow Measurements</b>			
Type S pitot tube inspection			
Type S pitot tube calibration			
Barometers			
Stack gas temperature measurement system			
Pressure sensors (excludes inclined manometer)			
Wet test meter			
Dry gas meters			
Assembled isokinetic sampling train leakage			
Tedlar bags			
Orsat analyzer leak check			
Viability of Orsat analyzer solutions			
Analytical balance (for moisture)			
<b>Sampling Train Heating Systems and Thermocouples</b>			
Probe heating system (isokinetic sampling trains)			
Probe nozzle (isokinetic sampling trains)			
Probe heating system (VOST)			
Thermocouples (stack gas meters and final impinger)			

**Table 8.1**  
**Proposed Operating Limits**

Operational Parameters	Units	Instrument ID	Limit	AWFCO	Averaging Period
Maximum total waste feed rate	lb/hr			Yes	Hourly Rolling Average
Maximum waste heat input	MMBtu/hr			Yes	Hourly Rolling Average
Maximum total combustion air flow rate	scfm			Yes	Hourly Rolling Average
Maximum total ash feed rate	lb/hr			Yes	Hourly Rolling Average
Maximum total chloride feed rate	lb/hr			Yes	Hourly Rolling Average
Maximum total semivolatile metals (SVM) feed rate	g/hr			Yes	12-Hour Rolling Average
Maximum total low volatility metals (LVM) feed rate	g/hr			Yes	12-Hour Rolling Average
Maximum mercury (Hg) feed rate	g/hr			Yes	Hourly Rolling Average
Maximum waste as-fired viscosity	cP			No	Hourly Rolling Average
Minimum waste atomization media pressure	psig			Yes	Instantaneous
Minimum combustion temperature	°F			Yes	Hourly Rolling Average
Maximum combustion temperature	°F			No	Instantaneous
Baghouse inlet temperature	°F			Yes	Instantaneous
Baghouse differential pressure	inwc			Yes	Hourly Rolling Average
Minimum packed bed scrubber L/G	gpm/scfm			Yes	Hourly Rolling Average
Minimum packed bed caustic scrubber recycle pH				Yes	Hourly Rolling Average
Minimum packed bed scrubber sump blowdown rate	gpm			Yes	Hourly Rolling Average
Minimum packed bed sump level	in			Yes	Hourly Rolling Average
Minimum packed bed scrubber differential pressure	inwc			Yes	Hourly Rolling Average
Minimum stack gas O <sub>2</sub> concentration	%			Yes	10-Minute Rolling Average
Maximum stack gas CO concentration	ppmv, dry @ 7% O <sub>2</sub>			Yes	Hourly Rolling Average

**Table 9.1**  
**Method Detection Limits (MDLs)**  
**for Analytes Used in Risk Assessment**

Analyte	Method Detection Limit	Concentration
Analyte #1		
Analyte #2		
Analyte #3		
Analyte #4		
Analyte #5		
Analyte #6		
Analyte #7		
Analyte #8		
Analyte #9		
Analyte #10		
Analyte #11		
Analyte #12		
Analyte #13		
Analyte #14		
Analyte #15		

**Table 9.2**  
**Total Organic Emissions**

Parameter	Units	Run 1	Run 2	Run 3	Average
<b>Volatile Organic Carbon</b>					
Total Volatile Organics (Bag Analysis)	mg/m <sup>3</sup>				
Total Volatile Organics	mg				
Bag Condensate	mg/m <sup>3</sup>				
<b>Semivolatile Organic Carbon</b>					
Total Chromatographable Organics	mg				
TCO Fraction	mg/m <sup>3</sup>				
<b>Nonvolatile Organic Carbon</b>					
Total Nonvolatile Organics	mg				
GRAV Fraction	mg/m <sup>3</sup>				
<b>Total Organics</b>	mg/m <sup>3</sup>				
	g/sec				















**Table 9.5  
PAH Emissions**

PAH's		Run 1		Run 2		Run 3		Avg.	
		ng	g/sec	ng	g/sec	ng	g/sec	ng	g/sec
<b>Noncarcinogenic PAHs</b>									
Naphthalene									
2-Methylnaphthalene									
Acenaphthalene									
Acenaphthene									
Fluorene									
Phenanthrene									
Anthracene									
Fluoranthene									
Pyrene									
Benzo(e)pyrene									
Benzo(g,h,i)perylene									
<b>Carcinogenic PAHs</b>									
Benzo(a)anthracene									
Chrysene									
Benzo(b)fluoranthene									
Benzo(k)fluoranthene									
Benzo(a)pyrene									
Perylene									
Indeno(1,2,3-c,d)pyrene									
Dibenzo(a,h)anthracene									
Carcinogenic PAHs		Run 1		Run 2		Run 3		Avg.	
		ng/sample	ng/m <sup>3</sup> BaP equiv	ng/sample	ng/m <sup>3</sup> BaP equiv	ng/sample	ng/m <sup>3</sup> BaP equiv	ng/sample	ng/m <sup>3</sup> BaP equiv
	BaP equiv								
Benzo(a)anthracene	0.1								
Chrysene	0.001								
Benzo(b)fluoranthene	0.1								
Benzo(k)fluoranthene	0.01								
Benzo(a)pyrene	1.0								
Indeno(1,2,3-c,d)pyrene	0.1								
Dibenzo(a,h)anthracene	1.0								
<b>TOTAL BaP equiv (ng/m<sup>3</sup>)</b>		=		=		=		=	
<b>TOTAL BaP equiv (g/s)</b>		=		=		=		=	

**Table 9.6  
PCB Emissions - Totals**

	Run No.	1			2			3		
	Date									
	Start Time									
	Stop Time									
	Units									
Sample Volume	dscf									
Sample Volume	m <sup>3</sup>									
Moisture Content	% v/v									
O <sub>2</sub> Concentration	% v/v (dry)									
CO <sub>2</sub> Concentration	% v/v (dry)									
Isokinetics	%									
Stack Flowrate	dscfm									
PCB Compounds		ng/sample	ng/m <sup>3</sup> TEQ	g/s	ng/sample	ng/m <sup>3</sup> TEQ	g/s	ng/sample	ng/m <sup>3</sup> TEQ	g/s
Mono										
Di										
Tri										
Tetra										
Penta										
Hexa										
Hepta										
Octa										
Nona										
Deca										
<b>TOTAL TEQ's (ng/m<sup>3</sup>)</b>										
<b>TOTAL TEQ's (ng/m<sup>3</sup> @ 7% O<sub>2</sub>)</b>										
<b>TOTAL TEQ's (g/s)</b>										

**Table 9.7  
PCB Emissions - Coplanar**

	Run No.	1			2			3		
	Date									
	Start Time									
	Stop Time									
	Units									
Sample Volume	dscf									
Sample Volume	m <sup>3</sup>									
Moisture Content	% v/v									
O <sub>2</sub> Concentration	% v/v (dry)									
CO <sub>2</sub> Concentration	% v/v (dry)									
Isokinetics	%									
Stack Flowrate	dscfm									
PCB Compounds	TEF	ng/sample	ng/m <sup>3</sup> TEQ	g/s	ng/sample	ng/m <sup>3</sup> TEQ	g/s	ng/sample	ng/m <sup>3</sup> TEQ	g/s
PCB-77	0.00010									
PCB-81	0.00010									
PCB-105	0.00010									
PCB-114	0.00050									
PCB-118	0.00010									
PCB-123	0.00010									
PCB-126	0.10000									
PCB-128/167	0.00001									
PCB-156	0.00050									
PCB-157	0.00050									
PCB-169	0.01000									
PCB-170										
PCB-180										
PCB-189	0.00010									
<b>TOTAL TEQ's (ng/m<sup>3</sup>)</b>										
<b>TOTAL TEQ's (ng/m<sup>3</sup> @ 7% O<sub>2</sub>)</b>										
<b>TOTAL TEQ's (g/s)</b>										

# Table 9.8

## Particle Size Distribution Results

Distribution by Average Diameter (microns)					
Distribution Type	0.2 - 0.5	0.5 - 1.0	1.0 - 2.5	2.5 - 5.0	5.0 - 10.0
Number %					
Mass %					