Table 2-1. Data Field Dictionary -- HWC Data Base in Access

Field	Format	Description	Examples / Comments
<u>Table: Source Information</u>			
Source ID No.	Text	Assigned 3 or 4 digit ID No. Specific (unique) to each combustion unit. Sister (data-in-lieu) units assigned an "A", "B", etc.	200, 300, 300A (sister unit to 300)
EPA ID No.	Text	9 digit EPA ID No. given to all facilities handling hazardous waste	TXD001893284
Facility Name	Text	Name of company which owns/operates the hazardous waste combustor	Safety Kleen
City	Text	City location of hazardous waste combustor	Beaumont
State	Text	State location of hazardous waste combustor	TX
Unit ID Name	Text	Name of hazardous waste combustor given to by (referred to by) the facility	Kiln No. 2, NCIN-1
Other Sister Facilities	Text	Narrative description of other sister (data-in-lieu) units represented by this unit; or other units in the database which are used to represent this unit.	Boiler No. 1
Number of Sister Units	Number	Number of additional identical, sister (data-in-lieu) units that this unit currently represents, including other units that have a Source ID No.	0
Combustor Category	Text	General category of hazardous waste combustor. 6 possible entries: Cement kiln, Lightweight aggregate kiln, liquid boiler, coal boiler, HCl production furnace, incinerator	Incinerator

Combustor Class	Text	Descriptive category of hazardous waste combustor. Key words: cement kiln (CK), lightweight aggregate kiln (LWAK), incinerator (onsite, commercial, mixed waste, government, munitions, popping, chem demil), boiler (liquid, coal), process heater, HCl production furnace	Onsite Incinerator, chem demil incinerator
Munitions Popping Furnace	Yes/No	Identifies munitions / popping furnace incinerators	Yes
Short Cement Kiln	Yes/No	Identifies short cement kilns	No
Chemical Weapons Demilitarization Units	Yes/No	Identifies chemical demilitarization furnaces	Yes
Mixed Radioactive Waste	Yes/No	Identifies mixed radioactive waste handling units	No
Government	Yes/No	Identifies government owned units	No
Commercial vs Onsite	Text	Identifies unit as commercial (treats offsite generated waste for a tipping fee, hazardous waste combustion is primary business at the site) vs on-site (treats onsite generated waste, and/or waste generated from same company without tipping fee)	Comm or OS
Liquid Injection Incinerator	Yes/No	Identifies liquid injection incinerators	
Combustor Type	Text	Combustor design. Key words: cement kilns -- wet, dry, short, long, preheater, precalciner, in-line raw mill (ILRM) incinerators -- rotary kiln, liquid injection, fluidized bed, controlled air, rotary hearth, fixed hearth boilers -- pulverized, stoker, liquid fired, liquid injection	Wet, long, rotary kiln
Combustor Characteristics	Text	Narrative description of combustor design, features.	
Capacity (MMBtu/hr)	Text	Total fuel heat input capacity of combustor, usually provided in MMBtu/hr	

Sootblowing	Text	Narrative discussion on sootblowing practices	
Waste Heat Boiler	Yes/No	Yes for units with waste heat boiler; no for units without waste heat boiler	Yes
APCS Detailed Acronym	Text	Acronym string used to define specific components of the air pollution control system. Acronym list is shown in attached list.	SD/FF/PBS/DM
APCS General Class / Components	Text	General components of APCS. Including: FF, HEWS, LEWS, CI, CB, WESP, ESP, RH, IWS, DS, WHB, HE, WQ. Acronym list shown in attached list.	SD, FF, LEWS
Dry vs Wet PM APCD	Text	Dry -- uses dry PM APCD, must be prior to wet scrubber if used. Wet -- uses wet PM APCD and does not use a dry PM APCD. None -- does not use active PM APCD	Dry, Wet, None
APCS Characteristics	Text	Narrative description of APCS design, features	
Hazardous Waste Type	Text	General class of hazardous waste that is combusted. Including: liquid, solid, sludge.	
Hazardous Waste Description	Text	Narrative description of hazardous waste. Such as origin, types, ID Nos., names, any other interesting characteristics of waste.	
Supplemental Fuel	Text	List of other non-hazardous waste fuels used. Including: coal, natural gas, fuel oil.	
Stack Diameter (ft)	Text	Stack diameter	
Stack Height (ft)	Number	Stack height	
Stack Gas Temperature (F)	Number	Stack gas temperature (nominal rated)	
Stack Gas Velocity (ft/s)	Number	Stack gas velocity (nominal rated)	
Permitting Status	Text	Narrative of permitting/compliance procedures, such as BIF compliance Tiers for metals and chlorine, Low Risk Waste Exemption for boilers, etc.	

Operating Status	Text	Operating status of facility. Y if still operating. N if closed (with date of closure).	

Table: Condition Description

Condition ID No.	Text	ID number assigned to each unique test condition. Structured as: first (starting from the left) the 3 or 4 digit Source ID No., followed by the condition number, such as "C1", "C2", "A1", "B1", "D1", ...	200C1, 200C2, 319D2
Report Name / Date	Text	Name and date of report that information is taken from (bibliographic reference)	
Report Preparer	Text	Name of firm which is responsible for preparing test report	
Testing Firm	Text	Name of firm which performed the testing	
Testing Dates	Text	Date(s) during which the test condition was performed	Sept 11-14, 1997
Condition Date	Date	Month during which test condition was performed	Sept 1997
Condition Description	Text	Narrative description of purpose of test condition	Trial burn, low combustion temperature DRE
Content	Text	Measurements taken during test condition	
Test Type	Text	General purpose of testing. See more detailed description in main report.	CT, TB, N, B
Soot Blowing Run No.	Text	Test condition run, if any, during which soot blowing conducted.	R3, R2, No
Soot Blow Comments	Text		
ILRM Status	Text	Operating status of cement kiln in line raw mill (on / off)	Off
Cl Campaign No.	Text	Testing campaign number assigned to each test condition. See more detailed description in the main report	1, 2, 3
Cl Spiking	Text	Status of spiking during testing (Y/N)	Y

Cl Tier	Text	RCRA Tier Compliance status (1, 2, or 3)	1
Cl Rating	Text	Rating of test condition. For example, compliance test (CT), normal (N), in-between (IB), etc. See more detailed description in main report.	CT, N, U, NA, RT
Cl Rating Comments	Text	Notes on rationale for rating	
Similar sets of fields like chlorine above, for rest of HAPs (D/F, Hg, LVM, Cr, SVM, PM)			

Tables: Stack Gas Emissions Tables (different table for each pollutant: Hg, SVM, LVM, PM, etc.)

Condition ID No.	Text	See above	
Emission Concentration	Number	Value of stack gas emissions concentration. Individual runs and condition average provided in fields for each test condition record. Units of the emissions concentration value, corrected to 7% oxygen: PM -- gr/dscf; CO, HC, HCl, Cl2, Total Chlorine -- ppmv; metals -- ug/dscm, D/F -- ng TEQ/dscm. Non-detect measurements (measurements reported as less than a provided detection limit) are considered at the full detection limit (i.e., the Access database contains the value corresponding to 100% of the provided detection limit).	
ND	Number	Percentage of the emission concentration contributed from measurements reported at the detection limit (non-detects). For an individual HAP (e.g., Cr, PM, HCl, 2,3,7,8-TCDD) and individual run, the ND % will be either 0 or 100% (0 if detected, 100 if non-detect). For test condition averages, or individual runs for a grouped HAP (SVM, LVM, PCDD/PCDF TEQ, or Total Chlorine), the ND % is anywhere between 0 and 100% (e.g., 57%). As mentioned above, the non-detect measurements are treated at the full detection limit.	

Comments	Text	Miscellaneous issues related to the measurement.	
Tables: Feedrates (different table for each pollutant: ash, Cl, Hg, SVM, LVM, Cr, Cd, Ni, etc.)			
Condition ID No.		See above	
Feedrate	Number	Value of feedrate MTEC for individual runs and condition average for 6 different feedstream categories: hazardous waste (HW), spike, coal, raw materials (RM), other nonhazardous fuels (MF), and total. MTECs shown in units of ug/dscm for metals and Cl, mg/dscm for ash. Non-detect measurements are considered at the full detection limit.	
ND	Number	Percentage of the feedrate MTEC contributed by measurements reported at the detection limit. Non-detect measurements are considered at the full detection limit.	
Tables: System Removal Efficiency (different table for each pollutant: ash, Cl, Hg, SVM, Cr, Cd, Ni, etc.)			
System Removal Efficiency (SRE)	Number	System removal efficiency, shown by run and test condition average. Calculated as the ratio of the total feedrate minus the stack gas emission rate to the total feedrate (or alternatively, 1 minus the ratio of the emissions rate to the feedrate). Expressed in %. The following procedures are used for handling of non-detects: for stack gas emissions, considered at the full detection limit; for feedrates, treated as 0 (zero) (i.e., feedrates reported as less than a detection limit are treated as 0). When all feedstreams are non-detect, SRE is not calculated.	
ND	Text	">" qualifiers are shown for SREs for which either the feedrate or emissions rate contains non-detect contributors (levels which are reported as being present at less than a detection limit). This is because the actual SRE is equal to or greater than the SRE that is shown. This is a result of handling non-detects in the stack gas emissions at the full detection limit, and non-detects in the feed as 0 (zero).	

SRE Campaign Number	Text	Testing campaign number assigned to each test condition. See more detailed description in the main report	
SRE Rating	Text	Rating of test condition. For example, compliance test (CT), normal (N), in-between (IB), etc. See more detailed description in main report.	
SRE Rating Comment	Text	Notes on rationale for rating	
Tables: Process Information (dry PM operating inlet temperature)			
Condition ID No.	Text	See above	
Operating Parameter	Text	Miscellaneous combustor and air pollution control device operating parameters, such as temperature, pressure drops, voltage, scrubber liquor feedrate, pH, etc.	
Parameter Level	Number	Value of operating parameter by run and condition average	
Units	Text	Unit of operating parameter	
Comments	Text	Miscellaneous issues relating to operating parameter	