

EPA Identification Numbers of all generation sites using a common waste profile analysis.

II.D.6. The Permittee may accept the following wastes residues, only if these wastes are a process residue from incineration or thermal treatment from an off-site permitted facility and the wastes comply with land disposal restrictions as required by R315-13-1:

- i. Water reactive materials
- ii. Pyrophoric materials
- iii. Class 1.1, 1.2, 1.3, and 1.4 explosives
- iv. Shock sensitive materials
- (v) F020, F021, F022, F023, F026 & F027, except for storage in containers or management of off-site generated, incineration/thermal treatment residues of the wastes bearing these codes, and F028 wastes, when such wastes are compliant with UAC Section R315-13 - Land Disposal Restrictions (LDR) (40 CFR Part 268.41) or can be rendered compliant with the LDR or other land disposal requirements utilizing any other additional permitted treatment/management techniques available at the facility prior to final disposal. All subject wastes shall be managed in accordance with the latest approved version of the Supplemental Waste Management Plan, Attachment II-8, for F020-F023 & F026-F027 Waste Treatment Residues and F028 Wastes.

II.D.7. Storage facilities that accept hazardous wastes from a third party generator, and keep that waste separate, may use the same waste analysis and profile identification number to manifest the material to the Grassy Mountain Facility.

II.D.8. The Permittee shall only accept those hazardous wastes authorized by this permit or other RCRA Federal or State (Utah) permits.

**U.S. Pollution Control, Inc.**  
**Grassy Mountain Facility**  
**II.D.9, Table 1**  
**Waste Identification List**

**SEE NOTES AT END OF TABLE.**

Not all waste management units and scenarios are listed in this table.  
Refer also to the individual Permit Modules.

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12
EPA Waste Code List	Module III (Containers)		Module IV (Tanks)			Module VI (Landfills)		Module IV (Other Tanks)			
	May store these wastes	May store as ash ONLY	May treat these wastes	May treat these wastes	May treat as ash ONLY	May dispose these wastes	May dispose as ash ONLY	May store these wastes	May store these wastes	May store these wastes	May store these wastes
			REACTION TANK	STABIL. TANKS	STABIL. TANKS			SOLVENT TANKS	ACID TANKS	CAUSTIC TANKS	TREATED LIQUID TANKS
(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
D001	D001			D001		D001		D001			
D002	D002		D002	D002		D002			D002	D002	D002
D003	D003		D003	D003		D003				D003	D003
D004	D004			D004		D004					
D005	D005		D005	D005		D005			D005		D005
D006	D006		D006	D006		D006			D006		D006

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			REACTION TANK	STABIL. TANKS	STABIL. TANKS			SOLVENT TANKS	ACID TANKS	CAUSTIC TANKS	TREATED LIQUID TANKS
(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
D007	D007		D007	D007		D007			D007		D007
D008	D008		D008	D008		D008			D008		D008
D009	D009		D009	D009		D009			D009		D009
D010	D010		D010	D010		D010			D010		D010
D011	D011		D011	D011		D011			D011		D011
D012	D012			D012		D012					
D013	D013			D013		D013					
D014	D014			D014		D014					
D015	D015			D015		D015					
D016	D016			D016		D016					
D017	D017			D017		D017					
D018	D018			D018		D018					
D019	D019			D019		D019					
D020	D020			D020		D020					
D021	D021			D021		D021					
D022	D022			D022		D022					
D023	D023			D023		D023					
D024	D024			D024		D024					

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(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
D025	D025			D025		D025					
D026	D026			D026		D026					
D027	D027			D027		D027					
D028	D028			D028		D028					
D029	D029			D029		D029					
D030	D030			D030		D030					
D031	D031			D031		D031					
D032	D032			D032		D032					
D033	D033			D033		D033					
D034	D034			D034		D034					
D035	D035			D035		D035					
D036	D036			D036		D036					
D037	D037			D037		D037					
D038	D038			D038		D038					
D039	D039			D039		D039					
D040	D040			D040		D040					
D041	D041			D041		D041					
D042	D042			D042		D042					

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(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
D043	D043			D043		D043					
F001	F001			F001		F001		F001			
F002	F002			F002		F002		F002			
F003	F003			F003		F003		F003			
F004	F004			F004		F004		F004		F004	
F005	F005			F005		F005		F005			
F006	F006			F006		F006					
F007	F007		F007	F007		F007				F007	F007
F008	F008		F008	F008		F008				F008	F008
F009	F009		F009	F009		F009				F009	F009
F010	F010		F010	F010		F010				F010	F010
F011	F011		F011	F011		F011				F011	F011
F012	F012		F012	F012		F012				F012	F012
F019	F019			F019							
F020	F020				F020*		F020*				
F021	F021				F021*		F021*				
F022	F022				F022*		F022*				
F023	F023				F023*		F023*				

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(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
F024 F025 F026	F024  F026	F025		F024 F025	F025* F026*	F024	F025* F026*				
F027 F028 F032 F034 F035	F027 F028 F032 F034 F035				F027* F028*	F032 F034 F035	F027* F028*				
F037 F038 F039	F037 F038 F039 F999			F037 F038 F039 F999		F037 F038 F039 F999					
K001 K002 K003 K004 K005	K001 K002 K003 K004 K005			K001 K002 K003 K004 K005		K001 K002 K003 K004 K005					
K006	K006			K006		K006					

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(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
K007	K007			K007		K007					
K008	K008			K008		K008					
K009	K009			K009		K009					
K010	K010			K010		K010					
K011		K011			K011		K011				
K013		K013			K013		K013				
K014	K014			K014		K014					
K015	K015			K015		K015					
K016	K016			K016		K016					
K017	K017			K017		K017					
K018	K018			K018		K018					
K019	K019			K019		K019					
K020	K020			K020		K020					
K021	K021			K021		K021					
K022	K022			K022		K022					
K023	K023			K023		K023					
K024	K024			K024		K024					
K025	K025			K025		K025					

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(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
K026	K026			K026		K026					
K027		K027			K027		K027				
K028	K028			K028		K028					
K029	K029			K029		K029					
K030	K030			K030		K030					
K031	K031			K031		K031					
K032	K032			K032		K032					
K033	K033			K033		K033					
K034	K034			K034		K034					
K035	K035			K035		K035					
K036	K036			K036		K036					
K037	K037			K037		K037					
K038	K038			K038		K038					
K039	K039			K039		K039					
K040	K040			K040		K040					
K041	K041			K041		K041					
K042	K042			K042		K042					
K043	K043			K043		K043					



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(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
K044 K045 K046	K046	K044 K045		K046	K044 K045	K046	K044 K045				
K047 K048 K049 K050 K051	K048 K049 K050 K051	K047	K048 K049 K051	K048 K049 K051	K047	K048 K049 K051	K047			K048 K049 K051	K048 K049 K051
K052 K060 K061 K062 K064	K052 K060 K061 K062		K062	K052 K060 K061 K062		K052 K060 K061 K062			K062		K062
K065 K066 K069 K071 K073	K069 K071 K073	K065 K066		K069 K071 K073	K065 K066	K069 K071 K073	K065 K066				

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(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
K083	K083			K083		K083					
K084	K084			K084		K084					
K085	K085			K085		K085					
K086	K086			K086		K086				K086	
K087	K087			K087		K087					
K088	K088			K088		K088					
K090	K090			K090		K090					
K091	K091			K091		K091					
K093	K093			K093		K093					
K094	K094			K094		K094					
K095	K095			K095		K095					
K096	K096			K096		K096					
K097	K097			K097		K097					
K098	K098			K098		K098					
K099	K099			K099		K099					
K100	K100			K100		K100					
K101	K101			K101		K101					
K102	K102			K102		K102					

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(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
K103	K103			K103		K103					
K104	K104			K104		K104					
K105	K105			K105		K105					
K106	K106			K106		K106					
K107		K107			K107		K107				
K108		K108			K108		K108				
K109		K109			K109		K109				
K110		K110			K110		K110				
K111	K111			K111		K111					
K112	K112			K112		K112					
K113	K113			K113		K113					
K114	K114			K114		K114					
K115	K115			K115		K115					
K116	K116			K116		K116					
K117		K117			K117		K117				
K118		K118			K118		K118				
K123	K123			K123		K123					
K124	K124			K124		K124					

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(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
K125 K126 K131 K132	K125 K126			K125 K126		K125 K126					
K136 K141 K142 K143 K144		K136 K141 K142 K143 K144			K136 K141 K142 K143 K144		K136 K141 K142 K143 K144				
K145 K147 K148 K149 K150		K145 K147 K148 K149 K150			K145 K147 K148 K149 K150		K145 K147 K148 K149 K150				
K151		K151			K151		K151				

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(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
P001	P001			P001		P001					
P002	P002			P002		P002					
P003	P003			P003		P003					
P004	P004			P004		P004					
P005	P005			P005		P005					
P006	P006			P006		P006					
P007	P007			P007		P007					
P008	P008			P008		P008					
P009		P009			P009		P009				
P010	P010			P010		P010					
P011	P011			P011		P011					
P012	P012			P012		P012					
P013	P013			P013		P013					
P014	P014			P014		P014					
P015	P015			P015		P015					
P016	P016			P016		P016					
P017	P017			P017		P017					
P018	P018			P018		P018				P018	

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(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
P020	P020			P020		P020					
P021	P021			P021		P021					
P022	P022			P022		P022		P022			
P023	P023			P023		P023					
P024	P024			P024		P024					
P026	P026			P026		P026					
P027	P027			P027		P027					
P028	P028			P028		P028					
P029	P029			P029		P029					
P030	P030		P030	P030		P030				P030	P030
P031	P031			P031		P031					
P033	P033			P033		P033					
P034	P034			P034		P034					
P036	P036			P036		P036					
P037	P037			P037		P037					
P038	P038			P038		P038					
P039	P039			P039		P039					
P040	P040			P040		P040					

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P041	P041			P041		P041					
P042	P042			P042		P042					
P043	P043			P043		P043					
P044	P044			P044		P044					
P045	P045			P045		P045					
P046	P046			P046		P046					
P047	P047			P047		P047					
P048	P048			P048		P048					
P049	P049			P049		P049					
P050	P050			P050		P050					
P051	P051			P051		P051					
P054	P054			P054		P054				P054	
P056	P056			P056		P056					
P057	P057			P057		P057					
P058	P058			P058		P058					
P059	P059			P059		P059					
P060	P060			P060		P060					
P062	P062			P062		P062					

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	May store these wastes	May store as ash ONLY	May treat these wastes	May treat these wastes	May treat as ash ONLY	May dispose these wastes	May dispose as ash ONLY	May store these wastes	May store these wastes	May store these wastes	May store these wastes
			REACTION TANK	STABIL. TANKS	STABIL. TANKS			SOLVENT TANKS	ACID TANKS	CAUSTIC TANKS	TREATED LIQUID TANKS
(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
P063	P063			P063		P063					
P064	P064	P065		P064	P065	P064	P065				
P065											
P066	P066			P066		P066					
P067	P067			P067		P067					
P068	P068			P068		P068					
P069	P069			P069		P069					
P070	P070			P070		P070					
P071	P071			P071		P071					
P072	P072			P072		P072					
P073	P073			P073		P073					
P074	P074			P074		P074					
P075	P075			P075		P075					
P076	P076			P076		P076					
P077		P077			P077		P077				
P078	P078			P078		P078					
P081		P081			P081		P081				
P082	P082			P082		P082					



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Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12
EPA Waste Code List	Module III (Containers)		Module IV (Tanks)			Module VI (Landfills)		Module IV (Other Tanks)			
	May store these wastes	May store as ash ONLY	May treat these wastes	May treat these wastes	May treat as ash ONLY	May dispose these wastes	May dispose as ash ONLY	May store these wastes	May store these wastes	May store these wastes	May store these wastes
			REACTION TANK	STABIL. TANKS	STABIL. TANKS			SOLVENT TANKS	ACID TANKS	CAUSTIC TANKS	TREATED LIQUID TANKS
(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
P084	P084			P084		P084					
P085	P085			P085		P085					
P087	P087			P087		P087					
P088	P088			P088		P088					
P089	P089			P089		P089					
P092	P092			P092		P092					
P093	P093			P093		P093					
P094	P094			P094		P094					
P095	P095			P095		P095					
P096	P096			P096		P096					
P097	P097			P097		P097					
P098	P098			P098		P098					
P099	P099			P099		P099					
P101	P101			P101		P101					
P102	P102			P102		P102					
P103	P103			P103		P103					
P104	P104			P104		P104					
P105	P105			P105		P105					

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Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12
EPA Waste Code List	Module III (Containers)		Module IV (Tanks)			Module VI (Landfills)		Module IV (Other Tanks)			
	May store these wastes	May store as ash ONLY	May treat these wastes	May treat these wastes	May treat as ash ONLY	May dispose these wastes	May dispose as ash ONLY	May store these wastes	May store these wastes	May store these wastes	May store these wastes
			REACTION TANK	STABIL. TANKS	STABIL. TANKS			SOLVENT TANKS	ACID TANKS	CAUSTIC TANKS	TREATED LIQUID TANKS
(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
P106 P108 P109 P110 P111	P106 P108 P109 P110 P111			P106 P108 P109 P110 P111		P106 P108 P109 P110 P111				P108	
P112 P113 P114 P115 P116	P113 P114 P115 P116	P112		P113 P114 P115 P116	P112	P113 P114 P115 P116	P112				
P118 P119 P120 P121 P122	P118 P119 P120 P121			P118 P119 P120 P121		P118 P119 P120 P121					
P123	P123 P999	P122		P123 P999	P122	P123 P999	P122				

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Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12
EPA Waste Code List	Module III (Containers)		Module IV (Tanks)			Module VI (Landfills)		Module IV (Other Tanks)			
	May store these wastes	May store as ash ONLY	May treat these wastes	May treat these wastes	May treat as ash ONLY	May dispose these wastes	May dispose as ash ONLY	May store these wastes	May store these wastes	May store these wastes	May store these wastes
			REACTION TANK	STABIL. TANKS	STABIL. TANKS			SOLVENT TANKS	ACID TANKS	CAUSTIC TANKS	TREATED LIQUID TANKS
(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
U001	U001			U001		U001		U002			
U002	U002			U002		U002					
U003	U003			U003		U003					
U004	U004			U004		U004					
U005	U005			U005		U005					
U006		U006			U006		U006				
U007	U007			U007		U007					
U008	U008			U008		U008					
U009	U009			U009		U009					
U010	U010			U010		U010					
U011	U011			U011		U011					
U012	U012			U012		U012					
U014	U014			U014		U014					
U015	U015			U015		U015					
U016	U016			U016		U016					
U017	U017			U017		U017					
U018	U018			U018		U018					
U019	U019			U019		U019		U019			

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Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12
EPA Waste Code List	Module III (Containers)		Module IV (Tanks)			Module VI (Landfills)		Module IV (Other Tanks)			
	May store these wastes	May store as ash ONLY	May treat these wastes	May treat these wastes	May treat as ash ONLY	May dispose these wastes	May dispose as ash ONLY	May store these wastes	May store these wastes	May store these wastes	May store these wastes
			REACTION TANK	STABIL. TANKS	STABIL. TANKS			SOLVENT TANKS	ACID TANKS	CAUSTIC TANKS	TREATED LIQUID TANKS
(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
U020		U020			U020		U020				
U021	U021			U021		U021					
U022	U022			U022		U022					
U023		U023			U023		U023				
U024	U024			U024		U024					
U025	U025			U025		U025					
U026	U026			U026		U026					
U027	U027			U027		U027					
U028	U028			U028		U028					
U029	U029			U029		U029					
U030	U030			U030		U030					
U031	U031			U031		U031		U031			
U032	U032			U032		U032					
U033		U033			U033		U033				
U034	U034			U034		U034					
U035	U035			U035		U035					
U036	U036			U036		U036					
U037	U037			U037		U037		U037			

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Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12
EPA Waste Code List	Module III (Containers)		Module IV (Tanks)			Module VI (Landfills)		Module IV (Other Tanks)			
	May store these wastes	May store as ash ONLY	May treat these wastes	May treat these wastes	May treat as ash ONLY	May dispose these wastes	May dispose as ash ONLY	May store these wastes	May store these wastes	May store these wastes	May store these wastes
			REACTION TANK	STABIL. TANKS	STABIL. TANKS			SOLVENT TANKS	ACID TANKS	CAUSTIC TANKS	TREATED LIQUID TANKS
(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
U038	U038			U038		U038					
U039	U039			U039		U039					
U041	U041			U041		U041					
U042	U042			U042		U042					
U043	U043			U043		U043					
U044	U044			U044		U044					
U045	U045			U045		U045					
U046	U046			U046		U046					
U047	U047			U047		U047					
U048	U048			U048		U048					
U049	U049			U049		U049					
U050	U050			U050		U050					
U051	U051			U051		U051				U051	
U052	U052			U052		U052		U052			
U053	U053			U053		U053					
U055	U055			U055		U055					
U056	U056			U056		U056					
U057	U057			U057		U057		U057			

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Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12
EPA Waste Code List	Module III (Containers)		Module IV (Tanks)			Module VI (Landfills)		Module IV (Other Tanks)			
	May store these wastes	May store as ash ONLY	May treat these wastes	May treat these wastes	May treat as ash ONLY	May dispose these wastes	May dispose as ash ONLY	May store these wastes	May store these wastes	May store these wastes	May store these wastes
			REACTION TANK	STABIL. TANKS	STABIL. TANKS			SOLVENT TANKS	ACID TANKS	CAUSTIC TANKS	TREATED LIQUID TANKS
(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
U058	U058			U058		U058					
U059	U059			U059		U059					
U060	U060			U060		U060					
U061	U061			U061		U061					
U062	U062			U062		U062					
U063	U063			U063		U063					
U064	U064			U064		U064					
U066	U066			U066		U066					
U067	U067			U067		U067					
U068	U068			U068		U068					
U069	U069			U069		U069					
U070	U070			U070		U070		U070			
U071	U071			U071		U071					
U072	U072			U072		U072					
U073	U073			U073		U073					
U074	U074			U074		U074					
U075	U075			U075		U075					
U076	U076			U076		U076					

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Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12
EPA Waste Code List	Module III (Containers)		Module IV (Tanks)			Module VI (Landfills)		Module IV (Other Tanks)			
	May store these wastes	May store as ash ONLY	May treat these wastes	May treat these wastes	May treat as ash ONLY	May dispose these wastes	May dispose as ash ONLY	May store these wastes	May store these wastes	May store these wastes	May store these wastes
			REACTION TANK	STABIL. TANKS	STABIL. TANKS			SOLVENT TANKS	ACID TANKS	CAUSTIC TANKS	TREATED LIQUID TANKS
(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
U077	U077			U077		U077					
U078	U078			U078		U078					
U079	U079			U079		U079					
U080	U080			U080		U080		U080			
U081	U081			U081		U081					
U082	U082			U082		U082					
U083	U083			U083		U083					
U084	U084			U084		U084					
U085	U085			U085		U085					
U086	U086			U086		U086					
U087	U087			U087		U087					
U088	U088			U088		U088					
U089	U089			U089		U089					
U090	U090			U090		U090					
U091	U091			U091		U091					
U092	U092			U092		U092					
U093	U093			U093		U093					
U094	U094			U094		U094					

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Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12
EPA Waste Code List	Module III (Containers)		Module IV (Tanks)			Module VI (Landfills)		Module IV (Other Tanks)			
	May store these wastes	May store as ash ONLY	May treat these wastes	May treat these wastes	May treat as ash ONLY	May dispose these wastes	May dispose as ash ONLY	May store these wastes	May store these wastes	May store these wastes	May store these wastes
			REACTION TANK	STABIL. TANKS	STABIL. TANKS			SOLVENT TANKS	ACID TANKS	CAUSTIC TANKS	TREATED LIQUID TANKS
(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
U095	U095	U096		U095	U096	U095	U096				
U096											
U097	U097			U097		U097					
U098	U098			U098		U098					
U099	U099			U099		U099					
U101	U101			U101		U101					
U102	U102			U102		U102					
U103	U103			U103		U103					
U105	U105			U105		U105					
U106	U106			U106		U106					
U107	U107			U107		U107					
U108	U108			U108		U108					
U109	U109			U109		U109					
U110	U110			U110		U110					
U111	U111			U111		U111					
U112	U112			U112		U112		U112			
U113	U113			U113		U113					
U114	U114			U114		U114					



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Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12
EPA Waste Code List	Module III (Containers)		Module IV (Tanks)			Module VI (Landfills)		Module IV (Other Tanks)			
	May store these wastes	May store as ash ONLY	May treat these wastes	May treat these wastes	May treat as ash ONLY	May dispose these wastes	May dispose as ash ONLY	May store these wastes	May store these wastes	May store these wastes	May store these wastes
			REACTION TANK	STABIL. TANKS	STABIL. TANKS			SOLVENT TANKS	ACID TANKS	CAUSTIC TANKS	TREATED LIQUID TANKS
(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
U115	U115			U115		U115					
U116	U116			U116		U116					
U117	U117			U117		U117		U117			
U118	U118			U118		U118					
U119	U119			U119		U119					
U120	U120			U120		U120					
U121	U121			U121		U121		U121			
U122	U122			U122		U122					
U123	U123			U123		U123					
U124	U124			U124		U124					
U125	U125			U125		U125					
U126	U126			U126		U126					
U127	U127			U127		U127					
U128	U128			U128		U128					
U129	U129			U129		U129					
U130	U130			U130		U130					
U131	U131			U131		U131					
U132	U132			U132		U132					

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Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12
EPA Waste Code List	Module III (Containers)		Module IV (Tanks)			Module VI (Landfills)		Module IV (Other Tanks)			
	May store these wastes	May store as ash ONLY	May treat these wastes	May treat these wastes	May treat as ash ONLY	May dispose these wastes	May dispose as ash ONLY	May store these wastes	May store these wastes	May store these wastes	May store these wastes
			REACTION TANK	STABIL. TANKS	STABIL. TANKS			SOLVENT TANKS	ACID TANKS	CAUSTIC TANKS	TREATED LIQUID TANKS
(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
U133		U133			U133		U133				
U134	U134			U134		U134			U134		U134
U135	U135		U135	U135		U135					U135
U136	U136			U136		U136				U136	
U137	U137			U137		U137					
U138	U138			U138		U138					
	U139			U139		U139					
U140	U140			U140		U140		U140			
U141	U141			U141		U141					
U142	U142			U142		U142					
U143	U143			U143		U143					
U144	U144			U144		U144					
U145	U145			U145		U145					
U146	U146			U146		U146					
U147	U147			U147		U147					
U148	U148			U148		U148					
U149	U149			U149		U149					
U150	U150			U150		U150					

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Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12
EPA Waste Code List	Module III (Containers)		Module IV (Tanks)			Module VI (Landfills)		Module IV (Other Tanks)			
	May store these wastes	May store as ash ONLY	May treat these wastes	May treat these wastes	May treat as ash ONLY	May dispose these wastes	May dispose as ash ONLY	May store these wastes	May store these wastes	May store these wastes	May store these wastes
			REACTION TANK	STABIL. TANKS	STABIL. TANKS			SOLVENT TANKS	ACID TANKS	CAUSTIC TANKS	TREATED LIQUID TANKS
(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
U151	U151			U151		U151					
U152	U152			U152		U152					
U153	U153			U153		U153					
U154	U154			U154		U154		U154			
U155	U155			U155		U155					
U156	U156			U156		U156					
U157		U157			U157		U157				
U158	U158			U158		U158					
U159	U159			U159		U159		U159			
U160		U160			U160		U160				
U161	U161			U161		U161		U161			
U162	U162			U162		U162					
U163	U163			U163		U163					
U164	U164			U164		U164					
U165	U165			U165		U165					
U166	U166			U166		U166					
U167	U167			U167		U167				U167	
U168	U168			U168		U168				U168	

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Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12
EPA Waste Code List	Module III (Containers)		Module IV (Tanks)			Module VI (Landfills)		Module IV (Other Tanks)			
	May store these wastes	May store as ash ONLY	May treat these wastes	May treat these wastes	May treat as ash ONLY	May dispose these wastes	May dispose as ash ONLY	May store these wastes	May store these wastes	May store these wastes	May store these wastes
			REACTION TANK	STABIL. TANKS	STABIL. TANKS			SOLVENT TANKS	ACID TANKS	CAUSTIC TANKS	TREATED LIQUID TANKS
(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
U169	U169			U169		U169		U169			
U170	U170			U170		U170					
U171	U171			U171		U171		U171			
U172	U172			U172		U172					
U173	U173			U173		U173					
U174	U174			U174		U174					
	U175										
U176	U176			U176		U176					
U177	U177			U177		U177					
U178	U178			U178		U178					
U179	U179			U179		U179					
U180	U180			U180		U180					
U181	U181			U181		U181					
U182	U182			U182		U182					
U183	U183			U183		U183					
U184	U184			U184		U184					
U185	U185			U185		U185					
U186	U186			U186		U186					

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Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12
EPA Waste Code List	Module III (Containers)		Module IV (Tanks)			Module VI (Landfills)		Module IV (Other Tanks)			
	May store these wastes	May store as ash ONLY	May treat these wastes	May treat these wastes	May treat as ash ONLY	May dispose these wastes	May dispose as ash ONLY	May store these wastes	May store these wastes	May store these wastes	May store these wastes
			REACTION TANK	STABIL. TANKS	STABIL. TANKS			SOLVENT TANKS	ACID TANKS	CAUSTIC TANKS	TREATED LIQUID TANKS
(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
U187	U187	U189	U188	U187	U189	U187	U189		U188		U188
U188	U188			U188		U188					
U189											
U190	U190			U190		U190					
U191	U191			U191		U191					
U192	U192			U192		U192		U196		U194	
U193	U193			U193		U193					
U194	U194			U194		U194					
U196	U196			U196		U196					
U197	U197			U197		U197					
U200	U200		U204	U200		U200					
U201	U201			U201		U201					
U202	U202			U202		U202					
U203	U203			U203		U203					
U204	U204			U204		U204					
U205		U205			U205		U205				
U206	U206			U206		U206					
U207	U207			U207		U207					

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General Facility Conditions  
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Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12
EPA Waste Code List	Module III (Containers)		Module IV (Tanks)			Module VI (Landfills)		Module IV (Other Tanks)			
	May store these wastes	May store as ash ONLY	May treat these wastes	May treat these wastes	May treat as ash ONLY	May dispose these wastes	May dispose as ash ONLY	May store these wastes	May store these wastes	May store these wastes	May store these wastes
			REACTION TANK	STABIL. TANKS	STABIL. TANKS			SOLVENT TANKS	ACID TANKS	CAUSTIC TANKS	TREATED LIQUID TANKS
(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
U208	U208			U208		U208					
U209	U209			U209		U209					
U210	U210			U210		U210		U210			
U211	U211			U211		U211		U211			
U213	U213			U213		U213					
U214	U214			U214		U214					
U215	U215			U215		U215					
U216	U216			U216		U216					
U217	U217			U217		U217					
U218	U218			U218		U218					
U219	U219			U219		U219					
U220	U220			U220		U220		U220			
U221	U221			U221		U221					
U222	U222			U222		U222					
U223		U223			U223		U223				
U225	U225			U225		U225					
U226	U226			U226		U226		U226			
U227	U227			U227		U227		U227			

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Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12
EPA Waste Code List	Module III (Containers)		Module IV (Tanks)			Module VI (Landfills)		Module IV (Other Tanks)			
	May store these wastes	May store as ash ONLY	May treat these wastes	May treat these wastes	May treat as ash ONLY	May dispose these wastes	May dispose as ash ONLY	May store these wastes	May store these wastes	May store these wastes	May store these wastes
			REACTION TANK	STABIL. TANKS	STABIL. TANKS			SOLVENT TANKS	ACID TANKS	CAUSTIC TANKS	TREATED LIQUID TANKS
(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
U228 U234 U235 U236	U228  U235 U236	U234		U228  U235 U236	U234	U228  U235 U236	U234	U228			
U237 U238 U239 U240 U243	U237 U238 U239 U240 U243			U237 U238 U239 U240 U243		U237 U238 U239 U240 U243		U239			
U244 U246 U247 U248 U249	U244 U246 U247	U248 U249		U244 U246 U247	U248 U249	U244 U246 U247	U248 U249				
U328 U353 U359		U328 U353 U359			U328 U353 U359		U328 U353 U359				

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Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12
EPA Waste Code List	Module III (Containers)		Module IV (Tanks)			Module VI (Landfills)		Module IV (Other Tanks)			
	May store these wastes	May store as ash ONLY	May treat these wastes	May treat these wastes	May treat as ash ONLY	May dispose these wastes	May dispose as ash ONLY	May store these wastes	May store these wastes	May store these wastes	May store these wastes
			REACTION TANK	STABIL. TANKS	STABIL. TANKS			SOLVENT TANKS	ACID TANKS	CAUSTIC TANKS	TREATED LIQUID TANKS
(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
NOTES:	1. "EPA LIST" (Column 1) are all EPA Waste Codes found in 40 CFR Part 261										
	2. Under the permit "ash" means any "waste residues from incineration."										
	On-site generated wastes derived from the handling of incineration residues										
	shall be managed in the same manner as the incineration residues themselves.										
	3. For the dioxin wastes marked with an "*", only certain ash wastes										
	may be handled. Refer also to the Supplemental Waste Management Plan,										
	Attachment II-8.										
	4. If a waste code is listed in both Columns 2 and 3, Column 3 shall control.										
	5. If a waste code is listed in both Columns 5 and 6, Column 6 shall control.										
	6. If a waste code is listed in both Columns 7 and 8, Column 8 shall control.										



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Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12
EPA Waste Code List	Module III (Containers)		Module IV (Tanks)			Module VI (Landfills)		Module IV (Other Tanks)			
	May store these wastes	May store as ash ONLY	May treat these wastes	May treat these wastes	May treat as ash ONLY	May dispose these wastes	May dispose as ash ONLY	May store these wastes	May store these wastes	May store these wastes	May store these wastes
			REACTION TANK	STABIL. TANKS	STABIL. TANKS			SOLVENT TANKS	ACID TANKS	CAUSTIC TANKS	TREATED LIQUID TANKS
(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
Newly-Listed Hazardous Wastes (EPA, February 9, 1995)											
K156											
K157											
K158											
K159											
K160											
K161											
P127											
P128											
P185											
P188											
P188											
P189											
P190											
P191											

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Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12
EPA Waste Code List	Module III (Containers)		Module IV (Tanks)			Module VI (Landfills)		Module IV (Other Tanks)			
	May store these wastes	May store as ash ONLY	May treat these wastes	May treat these wastes	May treat as ash ONLY	May dispose these wastes	May dispose as ash ONLY	May store these wastes	May store these wastes	May store these wastes	May store these wastes
			REACTION TANK	STABIL. TANKS	STABIL. TANKS			SOLVENT TANKS	ACID TANKS	CAUSTIC TANKS	TREATED LIQUID TANKS
(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
P192											
P194											
P194											
P196											
P196											
P197											
P197											
P198											
P199											
P201											
P202											
P203											
P204											
P205											
U271											
U277											

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Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12
EPA Waste Code List	Module III (Containers)		Module IV (Tanks)			Module VI (Landfills)		Module IV (Other Tanks)			
	May store these wastes	May store as ash ONLY	May treat these wastes	May treat these wastes	May treat as ash ONLY	May dispose these wastes	May dispose as ash ONLY	May store these wastes	May store these wastes	May store these wastes	May store these wastes
			REACTION TANK	STABIL. TANKS	STABIL. TANKS			SOLVENT TANKS	ACID TANKS	CAUSTIC TANKS	TREATED LIQUID TANKS
(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
U278											
U279											
U280											
U364											
U365											
U366											
U367											
U372											
U373											
U375											
U376											
U377											
U378											
U379											
U381											
U382											
U383											

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Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12
EPA Waste Code List	Module III (Containers)		Module IV (Tanks)			Module VI (Landfills)		Module IV (Other Tanks)			
	May store these wastes	May store as ash ONLY	May treat these wastes	May treat these wastes	May treat as ash ONLY	May dispose these wastes	May dispose as ash ONLY	May store these wastes	May store these wastes	May store these wastes	May store these wastes
			REACTION TANK	STABIL. TANKS	STABIL. TANKS			SOLVENT TANKS	ACID TANKS	CAUSTIC TANKS	TREATED LIQUID TANKS
(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
U384											
U385											
U386											
U387											
U389											
U390											
U391											
U392											
U393											
U394											
U395											
U396											
U400											
U401											
U402											
U403											
U404											

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Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12
EPA Waste Code List	Module III (Containers)		Module IV (Tanks)			Module VI (Landfills)		Module IV (Other Tanks)			
	May store these wastes	May store as ash ONLY	May treat these wastes	May treat these wastes	May treat as ash ONLY	May dispose these wastes	May dispose as ash ONLY	May store these wastes	May store these wastes	May store these wastes	May store these wastes
			REACTION TANK	STABIL. TANKS	STABIL. TANKS			SOLVENT TANKS	ACID TANKS	CAUSTIC TANKS	TREATED LIQUID TANKS
(See Note 1)	(See Note 4)	(See Notes 2,4)		(See Note 5)	(See Notes 2,5)	(See Note 6)	(See Notes 2,3,6)				
U407											
U409											
U410											
U411											

Figure 1-2 - Profile Sheet, Page 2 of 2 (Typical, Reduced)

process. Therefore, the containers are subject to the fingerprint analysis to ensure conformity with the pre-acceptance documentation.

#### II.D.9.g.1.iii.1. Ignitable, Reactive, and Incompatible Wastes

Ignitable, reactive, or incompatible incoming wastes are identified and classified by the sampling and analytical procedures described earlier, and information submitted by the generator.

The fingerprint procedures detailed previously check for pH, reactivity ( $\text{CN}^-$  and  $\text{S}^{2-}$ ) and flammability. The containers are segregated accordingly.

#### II.D.9.g.1.iii.2. On-Site Management Procedures

Wastes received in containers are also subject to the analytical work for the proposed management process. For example, a drum of F001 waste would be subject to an inspection for the fingerprint parameters (including free standing liquids). Depending on whether it was subject to an extension or petition or was a treatment residue, it might also be subjected to verification testing (e.g.: TOC analysis, TCLP, etc...). Further, depending on what, if any, treatment process it might be subject to, it might be subject to the analytical protocol for that process (e.g.: Paint Filter Liquids test for stabilization,...). Finally, it might also be subject to the protocol for the landfill, if that waste the ultimate disposal option on-site.

#### II.D.9.g.1.iii.3. Laboratory Packs

Drums packed with small quantities of waste are accepted for storage and disposal under special provision listed in Section II.D.9.d.vi. and II.D.9.e.1. As with all wastes destined for land disposal, all wastes contained within the lab pack must not be prohibited from land disposal.

#### II.D.9.g.1.iii.4. Management of Residues

Management of sump residues, floor sweepings, and other miscellaneous debris originating out of the drum management area will be managed as on-site generated waste under the conditions of Section II.D.9.e.1.(1). However, where the material is identifiable to a specific waste, it shall be managed in accordance with the approved management conditions for that waste (e.g.: a spill of F002 material may be managed as F002), or if precluded by permit, regulation, or operational conditions, it may be reprofiled for alternative management, as appropriate.

#### II.D.9.g.2. Treatment Operations

The proper and complete treatment of a particular waste depends upon appropriate sampling and analysis during selected phases of the operation. The

TABLE 2A  
ANNUAL PHYSICAL AND CHEMICAL ANALYSIS  
(WASTE CHARACTERIZATION)

MODIFIED "SKINNER LIST" FOR PRINCIPAL HAZARDOUS CONSTITUENTS  
IN PETROLEUM REFINING WASTES LAND TREATMENT

A. REQUIRED ANALYSES FOR K048, K049, K050, K051, K052 AND NON-HAZARDOUS WASTES AND D002, D003, D004, D005, D006, D007, D008, D009, D010, D011 AND K062 WASTES.

1. METALS (TOTAL)

Anitomy	Arsenic	Barium
Beryllium	Cobalt	Cadmium
Chromium	Copper	Lead
Mercury	Nickel	Selenium
Vanadium	Zinc	

2. VOLATILES

Benzene	Carbon disulfide	Chlorobenzene
Chloroform	Cyclohexane	1,2 Dichlorethane
Ethylbenzene	Ethylene dibromide	Methyl ethyl Acetone
Styrene	Toluene	Zylene (m, o, & p)

3. SEMI-VOLATILE BASE/NEUTRAL EXTRACTABLE COMPOUNDS

Athracene	Benzo (a) anthracene	Benzo (b) flourathene
Benzo (k) flourathene	Benzo (g,h,i) perylene	Benzo (a) pyrene
Bis(2-ethylhexyl)phythalate	Butyl Benzyl Phthalate	Chrysene
Dibenz(a,h) anthracene	Dichlorobenzenes	Diethyl phthalate
Dimethyl phthalate	7, 12-Dimethylbenz(a)-anthracene	
Di (n) octyl phthalate	Di (n) butyl phthalate	Flouranthene
Flourene	Idene	Ideno (1,2,3-c,d)pyrene
1-methylnapthalene	2-methylnapththalene	Napthalene
Phenathrene	Pyridine	Pyrene
Quinoline		

4. SEMI-VOLATILE ACID-EXTRACTABLE COMPOUNDS

o-Cresol	p-Cresol	m-Cresol	
2,4-dimethylphenol	2,4-dinitrophenol	4-nitrophenol	Phenol

5. MISCELLANEOUS ANALYSES



%Water	pH	Total Solids
Total oil and grease		Ash content

---

B. ADDITIONAL ANALYSES FOR D002, D003, D004, D005, D006, D007, D008, D009, D010, D011, AND KO62 WASTES.

---

1. EP TOXICITY

Arsenic	Barium	Beryllium
Cadmium	Chromium	Cobalt
Copper	Lead	Manganese
Mercury	Molybdenum	Nickel
Selenium	Silver	Zinc

2. MISCELLANEOUS ANALYSES

Total Organic Carbon (TOC)	Purgeable Organic Halogen (POH)
Total Dissolved Solids (TDS)	Total Suspended Solids (TSS)
Sulfide	Gross Cations and Anions

---

II.D.9.g.2.v.3.Additional Load Analysis

To ensure organic chlorides are not land applied, each material destined for land treatment will be tested for TOX on the pre-acceptance analysis and, for each waste stream with results greater than 500 mg/l TOX, this analysis will be reconfirmed upon arrival for approximately 10% of the incoming loads for that waste stream (to ensure it does not exceed 1,000 mg/l TOX) and, if after close observation and study, the General Manager finds the nature of the material is such that it is not likely to exceed 1,000, this additional study may be concluded after a minimum of 20 reanalyses. If the material contains less than 1,000 mg/l TOX the material will be considered acceptable. If the TOX test indicates greater than 1,000 mg/l TOX are present, the material will be rejected for land treatment or total organic chlorine may be determined to ensure it is not above 1,000 mg/l. If the total organic chlorine is above 1,000 mg/l, the material will not be acceptable for the surface impoundment unless evaluation of liner and waste compatibility indicates the waste may be safely managed.

II.D.9.g.2.v.4.Analysis of Residues

The residue is also characterized before application. The samples used for analysis must come from the tank, impoundment, or other sources where each waste load will be obtained for filling the applicator. This analysis is normally

The following table lists the precision and accuracy goals for the fingerprint analysis parameters which are used to verify loads. See Glossary of Terms for calculations.

Measurement Parameter	Reference	Experimental Conditions	Precision	Accuracy	Completeness
pH	SW 846 9040	Industrial Waste Samples	±2pH Units	±.5pH Units	100%
Paint Filter Test	SW 846 9095	Industrial Waste Samples	PASS/FAIL	PASS/FAIL	100%
Reactivity (Water)	USPCI 4	Industrial Waste Samples	PASS/FAIL	PASS/FAIL	100%
Reactivity (Cyanide)	USPCI 4	Industrial Waste Samples	±20%	±25%	100%
Reactivity (Cyanide)	SW 846 7.3.3.2	Industrial Waste Samples	±20%	±25%	100% when screen is positive
Reactivity (Cyanide)	SW 846 9010	Industrial Waste Samples	±20%	±25%	100% when screen is positive
Reactivity (Sulfide)	USPCI 4	Industrial Waste Samples	±20%	±25%	100%
Reactivity (Sulfide)	SW 846 7.3.4.2	Industrial Waste Samples	±20%	±25%	100% when screen is positive
Reactivity (Sulfide)	SW 846 9030	Industrial Waste Samples	±20%	±25%	100% when screen is positive
TLV Sniff	USPCI 5	Industrial Waste Samples	±20%	±25%	100%

Measurement Parameter	Reference	Experimental Conditions	Precision	Accuracy	Completeness
Radioactivity Screen	USPCI 7	Industrial Waste Samples	$\pm 20\%$	(2)	100%
Oxidizer Reducer Screen	USPCI	Industrial Waste Samples	PASS/FAIL	PASS/FAIL	100%
TOX	SW 846 9020	Industrial Waste Samples	$\pm 20\%$	$\pm 20\%$	100% as required

The facility cannot evaluate accuracy data on this test due to lack of calibration materials. The meter must have annual calibration.

Reactivity could have either the two quantitative tests performed depending on the source of the waste and/or governing regulations.

The following table lists the precision and accuracy requirements for the load and profile analysis parameters which are used as support tests. Completeness which states "as required" indicates the result is not required on all loads.

Measurement Parameter	Reference	Experimental Conditions	Precision	Accuracy	Completeness
Specific Gravity(5)	SM 213E 9010	Industrial Waste Samples	$\pm 20\%$	$\pm 20\%$	90%
Normality	USPCI 1	Industrial Waste Samples	$\pm 30\%$	$\pm 30\%$	100% as required
Solids	USPCI 3	Industrial Waste Samples	$\pm 10\%$	$\pm 10\%$	90%
BTU	ASTM D-240-85	Industrial Waste Samples	$\pm 20\%$	$\pm 20\%$	90% as required

PCBs	SW 846 8080	Industrial Waste Samples	±25%	±25%	100% as required
------	----------------	--------------------------------	------	------	---------------------

#### II.D.9.i.4. Sampling Procedures

The main goal in a chemical analysis is to make a measurement of some property of an article. Decisions are then made about the article based on the results of this measurement. More often than not, it is impractical or impossible to analyze the entire article. Therefore, it is imperative to have a sample which globally represents the universe concern.

#### II.D.9.i.4.i. Initial Considerations

The first item is to protect personnel from possible exposure to hazardous material. Most of the incoming loads contain some level of harmful matter. At a minimum, the sampling personnel will wear safety glasses, rubber gloves, and boots. Additional protective items will be required as dictated by the suspected contaminants involved. Sampling personnel are required to check the manifest or any shipping documents so that they are familiar enough with the waste stream to take all for the necessary safety precautions in collecting a representative sample of the waste stream.

The next item is to define what is to be sampled; liquid, solid; homogeneous or irregular. This will dictate what type of sampler and procedure is to be used. There are four basic types of samplers used for collecting waste load samples:

Coliwasa Thief  
Probe Trier

#### II.D.9.i.4.i.1. Sludges

A probe is used to collect a composite sample of sludges. The probe is especially useful for sludges that form a number of phases. One probe is used for sampling oily sludges and a second is used to sample other sludges.

Incoming loads of a sludge are sampled with a probe as follows:

1. Prior to sampling, inspect the apparatus to insure it is clean. If not, wash with clean water or appropriate cleaning solution and rinse with water.
2. Slowly insert the probe (metal, glass, or plastic) into the container insuring that the tube reaches the bottom of the container.
3. Seal the top of the tube by placing thumb or hand over the tube.

If high volumes of gas are detected or suspected, a respirator should be worn. No flames or sparks should ever be present.

## **5.0 APPARATUS AND EQUIPMENT**

5.1 TLV Sniffer - Bacharach by United Technologies, or equivalent.

5.2 Gas Calibration Kit - Bacharach, Code 51-7199, or equivalent.

## **6.0 REAGENTS**

None

## **7.0 SAMPLE HANDLING AND PRESERVATION**

Keep sample container tightly sealed. DO NOT open until starting analysis. If highly volatile, refrigerate sample at 4 degrees Celsius.

## **8.0 CALIBRATION AND STANDARDIZATION**

8.1 Battery test:

Turn MODE SELECTOR knob from OFF position to BATT TEST position. Meter pointer should come to rest in BATTERY GOOD range of meter scale. (Both a meter reading below BATTERY GOOD range and an audible signal warn of batteries too weak to sustain normal operation).

8.2 Setting meter pointer to zero:

8.2.1 Attach air sampling probe connector to instrument intake on left side of case by pulling back spring collar of connector, pressing connector over intake, and releasing spring collar.

8.2.2 Place TLV Sniffer in position in which meter indications will be read (usually in meter up position).

NOTE: Heat distribution from active and reference filaments of the detector sensor changes from vertical to horizontal position. The resulting change in electrical balance between elements causes a shift in pointer zero from one position to the other.

8.2.3 Set MODE SELECTOR switch to pm x 100 and operate instrument for 10 minutes to allow circuits to stabilize.

8.2.4 In fresh air, set ZERO ADJUST knob at midpoint (five full turns from either extreme position). If fresh air is not available, use Bacharach Kit 51-7199 to apply known pure air to the Sniffer intake (instructions in kit).

8.2.5 Turn coarse adjustment screw, located under ZERO ADJUST knob, to move Meter pointer to zero on the meter scale.

8.2.6 Turn MODE SELECTOR to pm x 10 position and turn ZERO ADJUST knob to set pointer to zero.

8.2.7 Turn MODE SELECTOR to pm x 1 position and turn ZERO ADJUST knob to set pointer to zero.

NOTE: The TLV Sniffer is extremely sensitive in the pm x 1 range. CO<sub>2</sub> from breath too close to the intake, cigarette smoke, auto fumes, etc., can interfere with accurate setting of the pointer to meter zero.

8.3 Setting meter pointer deflection (gain calibration).

To insure proper operation and to check calibration, it is necessary to periodically check the instrument against a known standard blend of calibration gas.

The Bacharach Code 51-7199 gas calibration kit and optionally available Code 51-1120 rectified gas cylinder containing 500 pm hexane in air are readily available to meet this requirement.

Connect the gas transfer assembly, making certain all connections are air tight. Use the retaining clips (2 each) to mount Flowmeter (06-6163) to its mounting bracket (51-1201). Make certain to connect rubber tubing at the base inlet connection on the flowmeter, then to the barbed fitting on the regulator and to the quick connect fitting previously on the regulator and to the quick connect fitting previously installed on the TLV sample in (inlet fitting). Turn regulator valve (03-4318) fully counterclockwise

(closed position) before attempting to screw regulator into calibration gas tank. This test is to be performed in a clean, fresh air (combustible free) environment. If this is not possible, substitute Code 51-7131 zero calibration gas for the Code 51-1120 cylinder of hexane-air mixture.

Connect the gas transfer assembly at the TLV sample in (inlet) fitting.

Open the regulator valve (clockwise) and adjust for flowmeter indication of (1) cfh to ensure adequate pump flow.

Remove Code 51-7131 zero calibration gas and substitute the Code 51-1121 cylinder of hexane/air mixture before proceeding with Step 6.

To calibrate the instrument in fresh air (combustible free) environment, proceed as follows:

8.3.1 Remove case cover for access to internal adjustments and temporarily break gas transfer assembly connection at the TLV Sample-In (inlet) fitting.

8.3.2 Turn FINE ZERO ADJUST (pot) full clockwise and then five turns counterclockwise to mid-range. Then turn COARSE ADJUST (pot) full clockwise and ten turns counterclockwise to mid-range.

8.3.3 Turn MODE SELECTOR to BATT TEST position. The meter pointer must indicate with BATTERY GOOD range, if not recharge.

Connect a Voltmeter between TP-3 (+) and ground (-), check for 6 VDC. If not, adjust for  $6 \text{ VDC} \pm 0.01 \text{ VDC}$ .

8.3.4 After allowing for five minute warm up, turn MODE SELECTOR switch to pm x 100 position and adjust R-13 for meter pointer indication of scale zero.

8.3.5 Turn MODE SELECTOR switch to pm x 10 position and adjust COARSE ADJUST or meter pointer indication of scale zero. Readjust per steps 4 and 5 until meter pointer indicates a relatively constant scale zero when MODE SELECTOR is switched between pm x 100 range.

III.B. WASTE IDENTIFICATION

- III.B.1. The Permittee may store the wastes listed in II.D.9. Table 1 column 2 in containers at the facility, subject to the terms of this permit.
- III.B.2. CERCLA Hazardous Wastes. The Permittee may receive wastes that arrive without E.P.A. waste code numbers, provided that these wastes are from remediation sites regulated under CERCLA and they comply with all CERCLA off-site management policies. These wastes shall be managed as hazardous wastes and are subject to the terms of this permit. The most current copy of the CERCLA off-site procedures shall be kept at the facility.
- III.B.3. The Permittee may store the wastes listed in Table II.D.9. Table 1 column 3 only as waste residues from incineration. Also permitted are on-site generated wastes derived from the handling of these residues.
- III.B.4. The Permittee may store, treat and dispose of waste with a P999 waste code but only if the waste is also subject to the F999 waste code.

III.C. CONDITION OF CONTAINERS

- III.C.1. If a container holding hazardous waste is not in good condition (e.g., severe rusting, bulging, apparent structural defects) or it begins to leak, the Permittee shall transfer the hazardous waste from such container, or the container of hazardous waste itself, to a DOT approved container in accordance with R315-8-9.2. This shall be completed as soon as possible, but no later than 24 hours from the time the problem was first discovered and noted in the inspection log portion of the operating record.
- III.C.2. Facility personnel shall ensure that the replacement containers referenced in condition III.C.1. are sufficiently labeled to allow identification and tracking of the waste while it is managed at the facility.



III.F. CONTAINMENT AREAS AND CAPACITIES

- III.F.1. The Permittee shall administer the container management facilities in accordance with the R315-8-9.6. The Permittee may store the following quantities of hazardous wastes:
- III.F.1.a. Dock 1 - maximum capacity 18,850 gallons of liquid waste in containers (342 55-gal drums); (This area is also named as "Top Dock 1", or "TD01" in facility records.)
- III.F.1.b. Pad 2 - maximum capacity 66,000 gallons of waste in containers (1,200 55-gal drums); (This area is subdivided into two container management sub-areas known as the "North Pad" or "NP01", and the "South Pad", or "SP01", in facility records.)
- III.F.1.c. (Reserved)
- III.F.1.d. Pad 3A - maximum capacity 20,900 gallons of waste in containers (380 55-gal drums). (This area is also named as "Top Dock 2", or "TD02" in facility records.)
- III.F.1.e. Pad 3B - maximum capacity 20,900 gallons of waste in containers (380 55-gal drums). (This area is also named as the "Sample Pad", or "SPAD" in facility records.)
- III.F.1.f. Dock 1, Pad 2 and Pad 3 shall not be considered 90 day storage or satellite storage areas.
- III.F.2. The minimum allowable aisle space shall be 2'-6" except along walls which may be 18".
- III.F.2.a. Containers may not be stored more than 8 ft. high to the top of the uppermost container.
- III.F.3. Any containers of hazardous, non-hazardous waste stored on Dock 1, Pad 2 or Pad 3 will be considered as liquid hazardous waste for the purposes of determining compliance with containment standards.
- III.F.4. Container management area sumps shall be inspected in accordance with, Attachment II-3 for presence of liquids. If liquids are discovered in the sump, the Permittee shall determine the source and

## MODULE IV - STORAGE AND TREATMENT IN TANKS

### IV.A. APPLICABILITY

The requirements of this Module pertain to the storage and treatment of hazardous waste in the tank systems identified in condition IV.B. The Permittee shall comply with R315-8-10 and the conditions of this permit for all tank systems.

### IV.B. WASTE IDENTIFICATION AND TANK USAGE

- IV.B.1. CERCLA Hazardous Wastes. The Permittee may receive wastes that arrive without E.P.A. waste code numbers, provided that these wastes are from remediation sites regulated under CERCLA and they comply with all CERCLA off-site management policies. These wastes shall be managed as hazardous wastes and are subject to the terms of this permit. The most current copy of CERCLA off-site procedures shall be kept at the facility.
- IV.B.2. The Permittee shall only treat or store the following hazardous wastes in the tanks specified in conditions IV.B.3. through IV.B.11., subject to the terms of this permit and the Land Disposal Restriction (LDR) treatment standards specified in R315-13-1.
- IV.B.3. Reaction Tank, 121-TN-001
- IV.B.3.a. Design - maximum capacity 2,000 gallons, 7'-0" diameter x 7'-0" high, stainless steel construction.
- IV.B.3.b. The Permittee shall only treat the hazardous wastes listed in II.D.9. Table 1 column 4 in tank 121-TN-001.
- IV.B.3.c. The Permittee shall install, maintain, and operate a real time pH monitoring system capable of accurately measuring the hazardous waste contents in tank 121-TN-001.
- V.B.3.d. The treated waste liquid shall have a pH less than or equal to 8 and greater than or equal to 3.

IV.B.4. Waste Stabilization Tanks 122-TN-001, -002 AND -003

IV.B.4.a. Design - maximum allowable capacity of 13,800 gallons per tank, 20'-0" long x 20'-0" wide x 6'-0" high, carbon steel construction.

IV.B.4.b. The Permittee shall only treat or store (during treatment) the hazardous wastes listed in II.D.9. Table 1 column 5 in the waste stabilization tanks 122-TN-001, 122-TN-002 and 122-TN-003

IV.B.4.c. The Permittee may place and store the incineration treatment residues listed in II.D.9. Table 1 column 6 in the Waste Stabilization Tank System providing that these wastes meet the Land Disposal Restrictions listed in R315-13. Also permitted are on-site generated wastes derived from the handling of these residues.

IV.B.4.d. The waste management practices specified in the Special Waste Management Plan in Attachment II-8 shall apply to wastes F020, F021, F022, F023, F026, F027 and F028.

IV.B.4.e. The stabilization tanks shall be filled no more than half-full with waste to be treated. The half-full level shall be marked on the inside and outside of each of the stabilization tanks. No waste shall splash over the sides of the tank.

IV.B.4.f. For each open stabilization tank, 4,150 gallons of freeboard shall be maintained to accommodate the precipitation from a 25 year 24 hour storm event. The 13,800 gallon permitted capacity level shall be marked on the inside and outside of each stabilization tank. Sufficient space shall be allowed for the addition of reagents and treatment agents so the total treatment volumes do not exceed the 13,800 gallon capacity.

IV.B.4.g. P999 wastes may only be placed in these tanks if the waste is also subject to the F999 waste code for wastes in porous media such as soils.

IV.B.5. Carbon Adsorption Tanks 118-TN-001, -002 AND -003

IV.B.5.a. Design - maximum allowable capacity shall not exceed 1,500 gallons per tank.

- IV.B.5.b. The Permittee shall only treat run-off containment waters from secondary containment or multi-source leachate, F039, hazardous waste in the carbon adsorption tanks: The Permittee shall not cause impermissible dilution under LDR of the F039 wastes placed in the carbon adsorption tanks.
- IV.B.5.c. The carbon adsorption tanks, 118-TN-001, 118-TN-002 and 118-TN-003, shall only be operated in an area where secondary containment is provided for 100% of the volume of the largest tank in that area.
- IV.B.5.d. The carbon adsorption tanks shall not be moved from the secondary containment area until all free liquids (less than one gallon) have been drained.
- IV.B.6. RESERVED
- IV.B.7. Leachate Storage Tanks 119-TN-001, -002, -003 and -004
- IV.B.7.a. Design - maximum allowable capacity 16,000 gallons per tank for tanks 119-TN-001, -002 and -003, 12'-0" diameter x 20'-0" high, and maximum allowable capacity 16,000 gallons for tank 119-TN-004, 12'-0" diameter x 28'-11" high, carbon steel construction.
- IV.B.7.b. The Permittee shall only store run-off containment waters from secondary containment and multi-source leachate, F039, hazardous waste in the leachate storage tanks 119-TN-001, 119-TN-002 119-TN-003 and 119-TN-004. Treatment is not allowed in these tanks. The Permittee shall not cause impermissible dilution under LDR of the F039 wastes placed in the leachate storage tanks.
- IV.B.7.c. The Permittee shall presume the contents of any individual leachate storage tank to be untreated leachate unless the tank is specifically and clearly marked as containing treated leachate.
- IV.B.8. Waste Solvent Storage Tanks 117-TN-001 AND 117-TN-002
- IV.B.8.a. Tank 117-TN-001 design - maximum allowable capacity 20,000 gallons, 10'-0" diameter x 30'-0" high, carbon steel construction.
- IV.B.8.b. Tank 117-TN-002 design - maximum allowable capacity 8,000 gallons, 8'-0" diameter x 20'-0" high, carbon steel construction.

- IV.B.8.c. The Permittee shall only use the waste solvent storage tanks WT-2 and WT-3 to store the hazardous wastes listed in II.D.9. Table 1 column 9 for off-site solvent recovery. Treatment shall not be performed in these tanks.
- IV.B.9. Acid Storage Tanks 121-TN-002 and 121-TN-003
- IV.B.9.a. Tank 121-TN-002 design - maximum allowable capacity 10,000 gallons, 10'-4" diameter x 16'-7" high, FRP construction.
- IV.B.9.b. Tank 121-TN-003 design - maximum allowable capacity 7,250 gallons, 9'-0" diameter x 15'-0" high, Kynar construction.
- IV.B.9.c. Treatment shall not be performed in the acid storage tanks. The Permittee shall only use acid storage tanks 121-TN-002 and 121-TN-003 to store the inorganic acid hazardous wastes listed in II.D.9. Table 1 column 10 prior to neutralization in Reaction tank 121-TN-001:
- IV.B.10. Caustic Storage Tanks 121-TN-004 and 121-TN-005
- IV.B.10.a. Design - maximum allowable capacity 16,000 gallons per tank, 12'-0" diameter x 20'-0" high, carbon steel construction
- IV.B.10.a. Design - maximum allowable capacity 16,000 gallons per tank, 12'-0" diameter x 20'-0"
- IV.B.10.b. The Permittee shall only use caustic storage tanks 121-TN-004 and 121-TN-005 to store the hazardous wastes listed in II.D.9. Table 1 column 11 prior to neutralization in a reaction tank. Treatment is not allowed in these tanks.
- IV.B.11. Treated Liquid Storage Tank 121-TN-006
- IV.B.11.a. Design - maximum allowable capacity 11,500 gallons, 12'-0" diameter x 14'-6" high, carbon steel construction.
- IV.B.11.b. The Permittee shall only use the treated liquid storage tank to store the hazardous wastes listed in II.D.9. Table 1-1 column 12. Treatment shall not be performed in these tanks.

**IV.C.      GENERAL OPERATING REQUIREMENTS**

- IV.C.1.      The Permittee shall only place hazardous wastes in tanks for the purpose of treatment or storage as specified by conditions in section IV.B.
- IV.C.2.      The treatment of hazardous wastes in the tanks identified in condition IV.B. shall meet all treatment standards specified in R315-13-1.
- IV.C.3.      All sludges and liquids shall be removed from the treatment tanks and their ancillary systems at the end of each operating day; except for the activated carbon adsorption and stabilization tanks identified in conditions IV.B.4. and IV.B.5.
- IV.C.4.      The Permittee shall use the controls and practices to prevent spills and overflows from each tank system, as specified in Attachment II-5, "Preparedness and Prevention,"
- IV.C.5      The Permittee shall stop adding wastes to the affected tank system in the event of an equipment or power failure of the affected tank.
- IV.C.6.      The Permittee shall comply with the requirements specified in R315-8-10 when there has been a leak or spill in a tank or the system is unfit for use.
- IV.C.7.      The Permittee shall comply with the requirements specified in the facility Contingency Plan, Attachment II-6, when there has been a release from a tank system that threatens human health or the environment.
- IV.C.8.      The Permittee shall notify the Executive Secretary as soon as possible, but no later than 24 hours of detection of a release of a reportable quantity from a tank system to the environment.
- IV.C.9.      The Permittee shall submit, to the Executive Secretary within 15 days of detection of a release to the environment, a report identifying details of the release, as specified in R315-8-10.
- IV.C.10.     The Permittee shall repair a tank system from which there has been a leak or spill or close the tank, if it is unfit for use, as specified in R315-8-10.

- IV.C.11. Before a repaired tank or ancillary piping system is returned to service after a major repair, it must be certificated by a qualified, independent Utah certified, professional engineer, that the repaired equipment is capable of handling hazardous waste without release for the intended life of the system. The Permittee shall submit the tank certification report to the Executive Secretary within 15 days of returning the repaired system to service.
- IV.C.12. Any tank that has been out of service for 360 or more days shall be certified by a qualified, independent professional engineer that the tank system is capable of handling hazardous waste without release for the intended life of the system. The Permittee shall have this certification performed before the tank is put back into service. The certification report shall then be submitted to the Executive Secretary within 15 days of returning the tank system to service.

**IV.D. SPECIFIC OPERATING REQUIREMENTS**

- IV.D.1. All F039 leachate shall meet the LDR treatment standards specified in R315-13-1 before final disposal at the facility.
- IV.D.2. All container storage run-off shall meet the LDR treatment standards specified in R315-13-1 before final disposal at the facility.
- IV.D.3. All hazardous waste residues from incineration and thermal treatment that are stored or treated in the tank system identified in condition IV.B. shall meet land disposal restrictions prior to final disposal at the facility.

**IV.E. SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE WASTES**

- IV.E.1. Ignitable or reactive waste shall not be placed in a tank system unless the provisions of R315-8-2.8 and R315-8-10 are met.
- IV.E.2. The Permittee shall record compliance with condition IV.E.1. as required by R315-8-2.8 and place this documentation in the facility operating record.

IV.E.3. The Permittee shall maintain the safety separation distance around tank systems as specified in the most recent version of the Uniform Building Code.

IV.E.4. The Permittee shall ground all rail cars and truck tankers during the unloading ignitable waste, to a effective positive earth ground by means of a heavy clamp and cable prior to and during unloading.

IV.F. SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTES

IV.F.1. The Permittee shall not store acids or oxidizing halides in any carbon steel tank systems.

IV.F.2. The Permittee shall not store organic material or oxidizing acids in any fiberglass reinforced plastic tank systems.

IV.F.3. The Permittee shall not place hazardous waste in an unwashed tank system that previously held incompatible waste or material. The general requirements for incompatible wastes identified in R315-8-2.8 shall apply.

IV.F.4. The Permittee shall record compliance with condition IV.F.3. as required by R315-8-2.8 and place this documentation in the facility operating record.

IV.G. INSPECTION REQUIREMENTS

IV.G.1. The Permittee shall comply with the inspection requirements specified in R315-8-10, condition II.F. and the Tank Inspection Schedules as shown in Attachment II-3; except that the tank heating coils need only be inspected on a yearly basis.

IV.G.2. The Waste Stabilization tank systems, 122-TN-001, 122-TN-002 and 122-TN-003, shall be inspected for leaks at least once during each operating day. Any liquids accumulated in the annulus between the inner and outer shells, shall be removed, analyzed and handled appropriately.



- IV.G.3. All tank systems identified in condition IV.B., except the carbon adsorption tanks listed in condition IV.B.5. shall be certified by a qualified, independent Utah certified, professional engineer, at least once every twelve months. Certification shall state that these tanks are capable of handling hazardous waste without release for the intended life of the system. The Permittee shall have this annual certification performed within 12 months of the last inspection. The certification report shall then be submitted to the Executive Secretary within 60 days of the inspection.
- IV.G.4. Any unlined portable activated carbon adsorption tanks, 118-TN-001, 118-TN-002 and 118-TN-003, shall be certified by a qualified, independent Utah registered professional engineer, at least every six (6) months. Certification shall state that these tanks are capable of handling hazardous waste without release for a six (6) month period. The Permittee shall have this bi-annual certification performed within six (6) months of the last inspection. The certification report shall then be submitted to the Executive Secretary within 60 days of the inspection. Corrosion resistant lined activated carbon adsorption tanks shall be inspected according to condition IV.G.3.
- IV.G.5. For each tank system found unfit for use as a result of the inspections required in conditions IV.G.3. and IV.G.4., the Permittee shall comply with the repair and notification requirements specified in conditions IV.C.10 and IV.C.11.
- IV.G.6. All tank inspection logs and certification reports shall be made part of the operating record and shall be maintained at the facility for a period of three (3) years.

IV.H. NEW AND MODIFIED TANK SYSTEMS

The Permittee shall comply with conditions I.P., covering planned changes, and I.R., certification of new construction and modifications. All new tanks systems and modification to existing systems shall also meet secondary containment and leak detection requirements specified in R315-8-10.

**IV.I. CLOSURE AND POST-CLOSURE CARE**

- IV.I.1. To close a tank system, the Permittee shall remove all waste residues and decontaminate the system as specified in R315-8-7 and R315-8-10, and permit condition II.N.
- IV.I.2. If a current cost estimate to close a tank system and provide post closure care is greater than the closure plan cost estimates specified in Attachment II-7, the Permittee shall notify the Executive Secretary as specified in R315-7-14 and provide the documentation for financial assurance based on the revised closure plan and post closure care within 90 days of the initiation of closure.
- IV.I.3. Post-closure care of all tank systems shall meet the requirements of R315-8-14.5 and permit condition II.N.

## MODULE V - SURFACE IMPOUNDMENTS

### V.A. APPLICABILITY

The Permittee may operate one (1) surface impoundment identified as impoundment A, as shown in Attachment II-1. The maximum operating capacity shall be 1,430,000 gallons. The Permittee shall operate and maintain this surface impoundment as required by R315-8-11.

### V.B. WASTE IDENTIFICATION

V.B.1. The Permittee may store the following off-site generated wastes in surface impoundment A in accordance with R315-8-11 and the conditions of this permit:

F039

V.B.2. The Permittee may store the following site-generated wastes (excluding PCB-contaminated liquids and sludges) in the surface impoundment A in accordance with R315-8-11 and the conditions of this permit:

- a. Floor drainage
- b. Multi-Source Leachate (F039) from hazardous waste units.
- c. Treated liquids/sludges from the wastewater treatment system.
- d. Non hazardous liquid wastes.
- e. Contaminated run-on and runoff waters.

V.B.3. To ensure compatibility with the liner system, site-generated wastes, identified in condition V.B.2., must be analyzed prior to placement in surface impoundments in accordance with the waste analysis plan identified in condition II.D.

V.B.4. CERCLA Hazardous Wastes. The Permittee may receive wastes that arrive without E.P.A. waste code numbers, provided that these wastes are from remediation sites regulated under CERCLA and they comply with all CERCLA off-site management policies. These wastes shall be managed as hazardous wastes and are subject to the terms of

this permit. The most current copy of CERCLA off-site procedures shall be kept at the facility.

**V.C.        SPECIAL OPERATING REQUIREMENTS**

- V.C.1.        At least three (3) feet of freeboard shall be maintained in surface impoundments at all times.
- V.C.2.        All F039 wastes, that do not meet organic constituent LDR standards must be treated in the carbon adsorption tanks as specified in condition IV.D.1. prior to placement in surface impoundment A.
- V.C.3.        All floor drainage and container storage run-off, that do not meet organic constituent LDR standards must be treated in the carbon adsorption tanks as specified in condition IV.B.5 prior to placement in surface impoundment A.
- V.C.4.        The treatment of hazardous waste in surface impoundments shall meet the LDR sampling, residue removal and recordkeeping requirements of R315-13-1.

**V.D.        RESERVED**

**V.E.        SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTES**

- V.E.1.        The Permittee shall comply with all requirements specified in R315-8-11.7 governing the management of incompatible wastes in surface impoundments.
- V.E.2.        When required to comply with the incompatible waste requirements of R315-8-2.8, the Permittee shall document that compliance in the facility operating record.

**V.F.        MONITORING AND INSPECTION**

- V.F.1.        The Permittee shall follow the inspection schedule contained in Attachment II-3 for surface impoundment A.

VI.B.2. The Permittee may landfill the incineration treatment residues listed in II.D.9. Table 1 column 8 providing that these wastes meet the Land Disposal Restrictions listed in R315-13. Also permitted are on-site generated wastes derived from the handling of these residues.

VI.B.3. The waste management practices specified in the Supplemental Waste Management Plan in Attachment II-8 shall apply to wastes F020, F021, F022, F023, F026, F027 and F028. On-site generated wastes derived from the handling of these residues shall also be managed according to the Plan.

VI.B.4. The Permittee may dispose in landfills the following on-site generated wastes not specified by EPA waste code numbers providing that all free liquids are stabilized or removed and documented in the operating record:

- \* Floor drain and sump residues
- \* Non hazardous waste

To comply with this permit condition, on-site generated waste listed above shall not be mixed with off-site generated hazardous waste.

VI.B.5. CERCLA Hazardous Wastes. The Permittee may receive wastes that arrive without E.P.A. waste code numbers, provided that these wastes are from remediation sites regulated under CERCLA and they comply with all CERCLA off-site management policies. These wastes shall be managed as hazardous wastes and are subject to the terms of this permit. The most current copy of CERCLA off-site procedures shall be kept at the facility.

VI.B.6. Free liquids may not be disposed in any of the landfill cells, except as provided by VI.K.

VI.B.7. Wastes bearing a P999 waste code may only be accepted if they are treatment residues which also bear the F999 waste code and are in a porous media listed below:

- \* soils
- \* incinerator ash, scrubber residues, slag, and baghouse dust
- \* activated carbon

- VI.B.8 The Permittee shall not issue a waste acceptance for any P999/F999 waste code combination that is not identified in VI.B.7 above without prior written approval by the Executive Secretary.

VI.C. **GENERAL DESIGN AND CONSTRUCTION OF LANDFILL CELLS**

- VI.C.1. The Permittee shall design and construct landfill cells to meet the current state and federal regulations for hazardous waste facilities.
- VI.C.2. Construction of each landfill cell shall follow the construction quality assurance (CQA) program as outlined in 40 CFR 264.19. The construction quality assurance plan should cover all aspects of design and construction. This CQA plan shall be submitted with the appropriate permit modification. The final design with installation procedures must be approved by the Executive Secretary prior to commencement of construction.
- VI.C.3. The approved CQA plan shall be landfill cell specific and will remain part of the permit throughout closure and post-closure activities. This CQA Plan is Attachment VI-2 of this permit.
- VI.C.4. Field changes to the design or construction details may require a modification to the CQA plan. The "Change Control Procedures" in the CQA Plan shall be adhered to. If a modification is necessary, as determined by the field compliance inspector appointed by the Executive Secretary, construction may only proceed after the field compliance inspector evaluates the impact of the change and approves the alteration or substitution. The Permittee must document this field change and place a description of this modification in the facility's CQA plan and mail a copy to the Executive Secretary within seven (7) calendar days of the approval. All field change orders shall become a permanent record to be kept with the CQA document.
- VI.C.5. All Class 1 field modifications, affecting the CQA document after construction has started, may be submitted to the Executive Secretary in one (1) Class 1 permit modification after completion of construction. This would include all "as built" drawings and the minor modification that changed the materials of construction or the procedures to place those materials in the landfill cell.

- VII.A.5. Nothing in this permit shall conflict with requirements under the Toxic Substances and Control Act (TSCA) regarding activities at the PCB landfill cell and PCB treatment area.
- VII.A.5.a. In addition to required monitoring at the PCB landfill cell under TSCA, the Permittee shall monitor for the same compounds in detection monitoring as for regulated units defined in condition VII.A.6. This data shall be submitted to the Executive Secretary at the same time as those semi-annual or other submissions required herein, except that sampling and reporting may be adjusted to meet any required timetables under TSCA.
- VII.A.6. The Permittee must follow all of the provisions under Part R315-8-6, Groundwater Protection, and as defined by these permit conditions. For purposes of this permit, the R315-8-6 regulations for Groundwater Protection shall apply to all units at the facility defined above; however, provisions for detection and compliance monitoring shall be defined specifically for unit waste management compliance points under R315-8-6.6, except as determined by the Executive Secretary. Due to the particular nature of the groundwater piezometric surface at this facility, down gradient conditions may occur in any direction from the Waste Management Area (WMA) units. The present waste management areas and compliance points defined below are shown on Attachment VII-1:
- VII.A.6.a. There shall be a common up-gradient well system serving as background for all of the individual waste management unit down-gradient monitoring wells. Monitoring wells MW-1, PZ-06, PZ-07, and PZ-08 shall serve as the up-gradient well system.
- VII.A.6.b. WMA #1 shall enclose the surface impoundment unit. The points of compliance are a line encircling this unit at the toe of the outer dike. Wells #10, #11, and #12 shall serve as down-gradient monitoring wells for WMA #1. A map showing the location of all WMAs can be found in Attachment VII-1.
- VII.A.6.c. WMA #2 shall enclose the land treatment units as a single monitoring system. The points of compliance are a line encircling this unit at the toe of the outer berm. Wells #8, #5, #18, and #19 shall serve as down-gradient monitoring wells for WMA #2.

- VII.A.6.d. WMA #3 shall include landfill cells #1, #2, #3, and #4. The points of compliance are a line encircling these cells at the toe of the outer berm on all sides (north, south, east, and west). Wells #24, #25, #27, #28, #29, #30, #42, #43, #44, #45, #46, #58, and #59 shall serve as initial down-gradient monitoring wells for this WMA.
- VII.A.6.e. WMA #4 shall enclose PCB landfill cells X, Y and Z. The points of compliance are a line encircling these cells on all sides at the toe of the outer berm. Wells MW-2, MW-21, MW-22, MW-23, MW-36, MW-40A MW-41, MW-53, MW-54, MW-55, MW-56, MW-57, shall serve as initial down-gradient monitoring wells for this WMA.
- VII.A.6.f. WMA #5 shall enclose the industrial landfill cell #1. The points of compliance are a line encircling this unit at the toe of the outer berm. Wells #32 and #33 shall serve as initial down-gradient monitoring wells for WMA #7. The Executive Secretary shall specify any additional down-gradient wells which may be required for this WMA.
- VII.A.6.g. WMA #6 shall enclose the industrial landfill cell #2 unit. The points of compliance are a line encircling this unit at the toe of the outer berm on the southern, western and eastern sides and the center of the common dike with cell #1 on the northern side. Wells #34, and #35 shall serve as initial down-gradient monitoring wells for WMA #6.
- VII.A.6.h. WMA #7 shall enclose the landfill cell #5 unit. The points of compliance are a line encircling this unit at the toe of the outer berm on the northern, eastern, and southern sides and the center of the common dike with landfill cell #4 and #1 on the western side. Wells #50, #51, #52 and #60 shall serve as initial down-gradient monitoring wells for WMA #7.
- VII.A.6.i. WMA #8 shall enclose the industrial landfill cell #3. The points of compliance are a line encircling this unit at the toe of the outer berm on the eastern, western, and southern sides and the center of the common dike with industrial landfill cell #2 on the northern side. Wells #47, #48, and #49 shall serve as initial down-gradient monitoring wells for WMA #8.
- VII.A.6.j. WMA #9 shall enclose PCB landfill cell B. The points of compliance are a line encircling this unit at the toe of the outer berm on the northern, eastern, and southern sides and the center of the common



dike landfill cell #5 on the western side. Wells MW-67, MW-68, MW-69, MW-70, MW-71, MW-72, MW-73, MW-74, and MW-9 shall serve as initial downgradient monitoring wells for WMA#9.

VII.A.6.k. WMA #10 shall enclose the PCB landfill cell A unit. The points of compliance are a line encircling this unit at the toe of the outer berm on the northern, western, and eastern sides and the center of the common dike with industrial cell #1 on the southern side. Wells MW-61, MW-62, MW-63, MW-64, MW-65, and MW-66 shall serve as initial downgradient monitoring wells for WMA #10.

VII.A.6.l. Addition of new units subject to this section shall follow the same general procedure for defining waste management areas, or as otherwise determined by the Executive Secretary.

VII.A.7. Regulated waste management units (hazardous waste or solid waste) subject to these provisions may only be excluded based on the criteria set forth in R315-8-1.1. and 8.6.1.(b). The regulations and conditions of this permit for groundwater monitoring apply during the active life of the regulated unit including the closure period, and as defined in R315-8-6.1.(c) during compliance and post-closure periods. These regulations shall also apply for the life of solid waste management units as mentioned above, except that solid waste unit closure and post-closure requirements shall be determined by the Executive Secretary as well as other relevant provisions of law.

**VII.B. REQUIRED PROGRAMS**

VII.B.1. The Permittee shall conduct a monitoring and response program as follows for all units subject to these provisions:

VII.B.1.a Whenever hazardous constituents under R315-8-6.4. from a regulated unit or solid waste management unit are detected at the compliance point(s) under the conditions of this permit, the Permittee shall institute a compliance monitoring program as defined in this permit and R315-8-6.10.;

VII.B.1.b. Whenever the groundwater protection standard under R315-8-6.3. and condition VII.C. of this permit is exceeded, the Permittee shall

and holding surface runoff. The approved unit areas are those shown on Attachment IX-B.

- IX.C.3. The design and operation of these four (4) land treatment unit areas, as defined in this permit, shall remain the same with respect to location, elevation, slope, native soils, collection ditches, fencing and access control for the duration of this permit, except as affected by approved activities at the land treatment units. Any substantial modifications to this design or operation must be approved by the Executive Secretary following notification by the Permittee.

IX.D. HAZARDOUS CONSTITUENTS WHICH MUST BE CONSIDERED

- IX.D.1. The compounds listed in Attachment IX-A, referred to as the abbreviated Skinner list for refinery compounds, must be evaluated in this land treatment program for listed wastes K048, K049, K050, K051 and K052. In addition, the all metallic and organic constituents (as referenced in R315-50-10) must be evaluated for the specific waste categories below:

D002 D003 D004 D005 D006 D007 D008 D009D 010 D011 K062

- IX.D.2. This section shall only be applicable as it relates to the annual monitoring requirements defined in this module. It shall not be applicable to wastes to be land treated since no additional wastes shall be applied to the unit.

IX.E. HORIZONTAL AND VERTICAL DIMENSIONS OF THE TREATMENT ZONE

- IX.E.1. The horizontal dimensions of the treatment zone consist of the 206 acres of land area within the perimeter dikes and not including drainage ditches, identified in condition IX.C. The vertical dimension of the treatment zone consists of the upper soil layers to a depth of 36 inches from the present land surface within these horizontal dimensions. In no event shall the treatment zone extend more than 60 inches below the future land treatment surface. The bottom of the treatment zone shall be at least three (3) feet above the normal high water table at this site.

