

DISPOSAL OF OILFIELD WASTES AT NMED SOLID WASTE LANDFILLS - AUGUST 17, 1999

DESCRIPTION OF WASTE ITEMS	RCRA EXEMPT STATUS	WRITTEN APPROVAL REQUIRED BY THE OILFIELD OPERATOR FROM THE OCD	TREATMENT OR TESTING REQUIRED	WRITTEN APPROVAL REQUIRED BY THE LANDFILL OPERATOR FROM THE NMED SOLID WASTE BUREAU
activated alumina	Yes	No	None	Yes - Disposal Management Plan (DMP) required
activated carbon	No	No	None	Yes - DMP required
amine fillers	Yes	No	Drain, air dry 48 hrs, TPH, BTEX.	Yes - DMP required
asbestos and asbestos contaminated waste material -friable	Yes (see NESHAP)	No	Comply with federal and state regulations for friable asbestos materials. Remove asbestos from steel pipe and boilers, recycle steel if possible.	No - if permit includes asbestos
asbestos and asbestos contaminated waste material -non-friable	Yes	No	Comply with federal and state regulations for asbestos materials. Remove asbestos from steel pipe and boilers, recycle steel if possible.	No
barrels / drums 5-gallon buckets, 1-gallon containers	No	No	Must be empty and EPA clean - recycle if possible	No
brush & vegetation from clearing land - uncontaminated		No	None.	No
catalysts	No	Yes	Testing determined on a case-by-case basis.	Yes - DMP required
chemical contaminated soil	No	Yes	Testing determined on a case-by-case basis.	Yes - DMP required
concrete from gas plants, compressor stations & other oil & gas facilities - contaminated	No	Yes	Testing determined on a case-by-case basis.	Yes - DMP required
concrete from production facilities - uncontaminated		No	None.	No
construction debris - uncontaminated	No	No	None	No
cooling tower fillers	Yes	No	Drain, air dry 48 hrs, TCLP for total chromium.	Yes - DMP required
dehydration filter media	Yes	No	Drain, air dry 48 hrs, TPH, BTEX.	Yes - DMP required
dismantment debris	No	Yes	Testing determined on a case-by-case basis.	Yes - DMP required - on a case-by-case basis
detergent buckets	No	No	Must be empty - recycle if possible.	No
dry chemicals - unused	No	No	Recycle if possible. Otherwise, determine if hazardous. Testing determined on a case-by-case basis. MSDS sheets.	Yes - DMP required

TABULAR

EXHIBIT/000

1

DISPOSAL OF OILFIELD WASTES AT NMED SOLID WASTE LANDFILLS - AUGUST 17, 1999

DESCRIPTION OF WASTE ITEMS	RCRA EXEMPT STATUS	WRITTEN APPROVAL REQUIRED BY THE OILFIELD OPERATOR FROM THE OCD	TREATMENT OR TESTING REQUIRED	WRITTEN APPROVAL REQUIRED BY THE LANDFILL OPERATOR FROM THE NMED SOLID WASTE BUREAU
ferrous sulfate, elemental sulfur - contaminated	Yes	Yes	Testing determined on a case-by-case basis.	Yes - DMP required
ferrous sulfate, elemental sulfur - uncontaminated	Yes	No	Recover & sell as raw material.	Yes - DMP required
fiberglass tanks	No	No	Must be empty, EPA clean, recycle if possible, cut up or shred for disposal.	No
gas condensate filters	Yes	No	Drain, air dry 48 hrs, TPH, BTEX.	Yes - DMP required
glycol filters	Yes	No	Drain, air dry 48 hrs, TPH, BTEX.	Yes - DMP required
grease buckets	No	No	Must be empty and EPA clean - recycle if possible (scrap metal).	No
iron sponge	Yes	Yes	Allow to oxidize completely to prevent threat of combustion. Ignitability testing	Yes - DMP required
junked pumps, valves, metal pipe.	No	Yes	NORM - recycle if possible.	Yes - DMP required - on a case - by-case basis
metal plate, metal cable	No	No	Recycle if possible.	No
molecular sieves	Yes	No	Cool in non-hydrocarbon, inert atmosphere, hydrate in ambient air 24 hrs, TPH, BTEX	Yes - DMP required
office trash	No	No	None	No
paper, paper bags	No	No	Bags must be empty.	No
pipe dope - unused	No	No	Recycle if possible. Otherwise, determine if hazardous. Testing determined on a case-by-case basis. MSDS sheets.	Yes - DMP required - on a case - by-case basis
pipe scale & other deposits removed from piping and equipment - RCRA Exempt.	Yes	Yes	TPH, TCLP metals, NORM.	Yes - DMP required
plastic pit liners	Yes	No	Clean well.	Yes - DMP required - on a case - by-case basis

DISPOSAL OF OILFIELD WASTES AT NMED SOLID WASTE LANDFILLS - AUGUST 17, 1999

DESCRIPTION OF WASTE ITEMS	RCRA EXEMPT STATUS	WRITTEN APPROVAL REQUIRED BY THE OILFIELD OPERATOR FROM THE OCD	TREATMENT OR TESTING REQUIRED	WRITTEN APPROVAL REQUIRED BY THE LANDFILL OPERATOR FROM THE NMED SOLID WASTE BUREAU
produced water filters	Yes	No	Drain, air dry 48 hrs, pH, chlorides, TPH.	Yes - DMP required
sacks of unused drilling mud	No	No	Return to vendor or use at other site if usable. If unusable, verify non-hazardous, MSDS sheets.	No
sandblasting sand	No	No	TCLP metals. (Total metals may be substituted)	Yes - DMP required - on a case-by-case basis
soiled rags / gloves	No	No	None	No
sulfur contaminated soil	Yes	Yes	Testing determined on a case-by-case basis.	Yes - DMP required
support balls - generated at gas processing plant.	Yes	Yes	Testing determined on a case-by-case basis.	Yes - DMP required - on a case-by-case basis
support balls - generated at other oilfield facilities.	No	Yes	Testing determined on a case-by-case basis.	Yes - DMP required - on a case-by-case basis
lower packing materials - generated at gas processing plant.	Yes	Yes	Testing determined on a case-by-case basis.	Yes - DMP required
lower packing materials - generated at other oilfield facilities.	No	Yes	Testing determined on a case-by-case basis.	Yes - DMP required
waste oil filters	No	No	Drain thoroughly of oil for 24 hours, recycle oil, recycle metal parts if possible, TCLP metals.	No
wooden pallets - uncontaminated	No	No	None.	No
wooden pallets - contaminated	No	No	Testing determined on a case-by-case basis. Drill a 100 g sample for TCLP.	Yes - DMP required - on a case-by-case basis

DISPOSAL OF OILFIELD WASTES AT NMED SOLID WASTE LANDFILLS - AUGUST 17 1999

EXPLANATION OF ABBREVIATIONS:

BTEX	Benzene, Toluene, Ethelbenzene, Xylene	RCRA	Resource Conservation and Recovery Act
MSDS	Material Safety Data Sheet(s)	TSCA	Toxic Substances Control Act
NORM	Naturally Occurring Radioactive Materials	TCLP	Toxicity Characteristic Leaching Procedure
PCB	Polychlorinated biphenyls (or polybrominated biphenyls)	TPH	Total Petroleum Hydrocarbons (EPA Method 418.1 or modified 8015)
DMP	Disposal Management Plan to be submitted by the landfill operator to the NMED Solid Waste Bureau	NESHAP	National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)

Analyte	Limit	Analyte	TCLP Limit	Additional Testing
Benzene	< 10 mg/kg	Arsenic	5.0 mg/l	Paint Filter Test (EPA Method 9095A)
BTEX	< 500 mg/kg (sum of all)	Barium	100.0 mg/l	Ignitability Test (EPA Method 1030)
TPH	1000 mg/kg	Cadmium	1.0 mg/l	Corrosivity (EPA Method 1110)
		Chromium	5.0 mg/l	Reactivity (Appropriate Testing)
		Lead	5.0 mg/l	
		Mercury	0.2 mg/l	
		Selenium	1.0 mg/l	
		Silver	5.0 mg/l	

NOTE: Oilfield wastes not listed above will be handled on a case-by-case basis. All required OCD authorization will be on a case by-case-basis.
All required NMED Solid Waste Bureau approval requests should be directed to Charles Hules at (505) 827-2924.