Onsite Tiered Permitting - Flowchart

(For non-RCRA or exempt hazardous waste facilities conducting onsite treatment.)

1. Aqueous wastes with chromium VI
   Reduction to chromium III

   - ≤ 55 gallons/mo./facility → CESQT
   - >55 gallons/mo.
     - <750 ppm → CA*
     - ≥ 750 ppm → PBR

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CESQT - Conditionally Exempt Small Quantity Treatment
(Health and Safety Code (HSC § 25201.5(a)))
CESW - Conditionally Exempt Specified Wastestream (HSC § 25201.5(c))
CEL - Conditionally Exempt-Limited (HSC § 25201.14)
CECL - Conditionally Exempt Commercial Laundries (HSC § 25144.6(c))
CA - Conditional Authorization (HSC § 25200.3)
PBR - Permit by Rule (Title 22, CCR, Div. 4.5, Chapter 45)

*Must be hazardous solely due to this characteristic
In tanks or containers, such as breathing and evaporation through vents and floating roofs, without the addition of pressure, chemicals, or heat other than sunlight or ambient room lighting or heating.

Evaporation

pH Adjustment
(≥2, ≤12.5)
Precipitation or
Crystallization
Ion Exchange
Reverse Osmosis
Metallic Replacement
Plating onto an Electrode
Electrodialysis
Electrowinning or
Electrolytic recovery
Chemical Stabilization
Adsorption

≤ 55 gallons/mo./facility

CESQT

>55 gallons/mo.
>1,400 ppm

PBR

Phase Separation

During storage or accumulation in tanks or containers only if, the separation is unaided by the addition of heat or chemical.**

NO authorization required

Aqueous wastes with metals listed in T22 § 66261.24

**Closed except adding/removing (T22, § 66265.173)
Aqueous wastes with metals listed in T22 § 66261.24

Ion Exchange
Reverse Osmosis
Adsorption
pH Adjustment
(≥2, ≤12.5)
Electrowinning
(no hydrochloric acid)

Phase Separation

During storage or accumulation in tanks or containers only if, the separation is unaided by the addition of heat or chemical.**

>55 gallons/mo.
<1,400 ppm

CA*

NO authorization required

*Must be hazardous solely due to this characteristic
**Closed except adding/removing (T22, § 66265.173)
3a Aqueous waste with organic compounds
not listed and containing <10% total organic carbon and <1% volatile organic compound

Adsorption
Distillation
Biological Processes
Photodegradation (with or without ozone or hydrogen peroxide)
Air Stripping

Phase Separation excluding super critical fluid extraction

During storage or accumulation in tanks or containers only if, the separation is unaided by the addition of heat or chemical.**

≤ 55 gallons/mo./facility → CESQT

>55 gallons/mo. → PBR

NO authorization required

*Must be hazardous solely due to this characteristic
**Closed except adding/removing (T22, § 66265.173)
3 b

Aqueous waste with organic compounds listed in § 66261.24(a)(1)(B) or § 66261.24(a)(2)(B)

Adsorption

<750 ppm

CA*

Phase Separation excluding super critical fluid extraction

During storage or accumulation in tanks or containers only if, the separation is unaided by the addition of heat or chemical.**

NO authorization required

*Must be hazardous solely due to this characteristic

**Closed except adding/removing (T22, § 66265.173)
Sludges (wastewater treatment and other types), solid metal objects, workings (containing or contaminated with metals).

4a

In tanks or containers, such as breathing and evaporation through vents and floating roofs, without the addition of pressure, chemicals, or heat other than sunlight or ambient room lighting or heating.

Drying (to remove water)

Grinding
Shredding
Crushing
Compact
Separation (based on size, magnetism or density).

Chemical stabilization

≤ 500 lbs/mo./facility

CESQT

>500 lbs/mo.

PBR

NO authorization required
Wastewater treatment sludges, solid metal objects, metal workings containing or contaminated with metals and Dusts containing $\leq 750$ ppm metal

In tanks or containers, such as breathing and evaporation through vents and floating roofs, without the addition of pressure, chemicals, or heat other than sunlight or ambient room lighting or heating.

NO authorization required

Centrifuge
Gravity Settling
Grinding
Shredding
Crushing
Compact
Separation (based on size, magnetism or density).

≤ 45,000 lbs/mo.

CA*

4b

Drying (to remove water)

Filtration

Sieving or filtering liquid hazardous waste to remove solid fractions, without added heat, chemicals, or pressure, as the waste is added to or removed from a storage or accumulation tank or container. For this activity, sieving or filtering does not include adsorptions, reverse osmosis, or ultrafiltration.

NO authorization required

*Must be hazardous solely due to this characteristic
During storage or accumulation in tanks or containers only if, the separation is unaided by the addition of heat or chemical.**

- **Phase Separation**
  - **Chemical Stabilization**
  - **Drying (to remove water)**
    - In tanks or containers, such as breathing and evaporation through vents and floating roofs, without the addition of pressure, chemicals, or heat other than sunlight or ambient room lighting or heating.

*Must be hazardous solely due to this characteristic

**Closed except adding/removing (T22, § 66265.173)

5

- **Alum, gypsum, lime, sulfur, or phosphate sludges**
  - ≤ 500 lbs/mo./facility → CESQT
  - ≤ 45,000 lbs/mo./unit → CA*
  - >45,000 lbs/mo. → PBR
  - >500 lbs/mo./unit → CESQT
  - >500 lbs/mo. → PBR

NO authorization required

DTSC          8/23/02          Page 8
During storage or accumulation in tanks or containers only if, the separation is unaided by the addition of heat or chemical.**

- **Phase Separation**
  - Screening to separate components (based on size)
  - Separation (based on size, magnetism or density)
  - Drying (to remove water)

- **In tanks or containers, such as breathing and evaporation through vents and floating roofs, without the addition of pressure, chemicals, or heat other than sunlight or ambient room lighting or heating.**

- **Chemical Stabilization**

Waste listed in § 66261.120, which meets the criteria and requirements for classification as special waste

- NO authorization required
  - CESQT
  - CA*
  - PBR

- NO authorization required
  - CESQT
  - PBR

- >45,000 lbs/mo.

*Must be hazardous solely due to this characteristic

**Closed except adding/removing (T22, § 66265.173)
During storage or accumulation in tanks or containers only if, the separation is unaided by the addition of heat or chemical.**

- **Phase Separation**
  - Chemical Stabilization
  - Drying
    - In tanks or containers, such as breathing and evaporation through vents and floating roofs, without the addition of pressure, chemicals, or heat other than sunlight or ambient room lighting or heating.

- Magnetic Separation Drying (by pressing or passive evaporation)

- NO authorization required
  - CESQT
  - PBR
  - CESW

**Closed except adding/removing (T22, § 66265.173)**
*Must be hazardous solely due to this characteristic

**Closed except adding/removing (T22, § 66265.173)
8 a

Inorganic acid or alkaline wastes

pH Adjustment Neutralization

- ≤ 55 gallons/mo./facility
  - CESQT
- >55 gal. or 500 lbs/mo.
  - <10% acid/base by wt.
    - CA*
    - >10% acid/base by wt.
      - >10% acid/base by wt.
        - PBR
      - <10% acid/base by wt.
        - CA*

8 b

Corrosive waste
from regeneration of ion exchange residues (used to demineralize water) § 25201.13

Neutralization

- <10% acid/base by wt.
  - NO authorization required
- >10% acid/base by wt.
  - Go to 8 a

8 c

Acid/alkaline wastes
corrosive due to presence of food products AND generated by SIC group 20 HSC, § 25201.5

Neutralization

- <10% acid/base by wt.
  - NO authorization required
- >10% acid/base by wt.
  - CESW

*Must be hazardous solely due to this characteristic
Neutralization

Acid/alkaline wastes
Laboratory conducting treatment pursuant to HSC, § 25200.3.1

Neutralization

NO authorization required

<10% acid/base by wt.

>10% acid/base by wt.

Go to

8 a

Acid/alkaline wastes
from Biotechnology manufacturing or process by SIC Code subgroups 283, 2833, 2834, 2836, 8731, 8732, 8733
HSC, § 25201.15

NO authorization required

<10% acid/base by wt.

>10% acid/base by wt.

Go to

8 a
Soils contaminated with metals

- **Screening Magnetic Separation**
  - ≤ 500 lbs/mo./facility → CESQT
  - ≤ 45,000 lbs/mo./unit → CA*
    - > 45,000 lbs/mo. → PBR
  - > 500 lbs/mo. → PBR

- **Chemical Stabilization**
  - < 500 lbs/mo./facility → CESQT
  - > 500 lbs/mo. → PBR

*Must be hazardous solely due to this characteristic*
10a

Used oil, unrefined oil waste, mixed oil, oil mixed with water or oil/water separator defined in HSC § 25250.1

During storage or accumulation in tanks or containers only if, the separation is unaided by the addition of heat or chemical.**

Distillation
Neutralization
Separation (based on size magnetism or density)
Reverse Osmosis
Biological Processes

≤ 55 gallons/mo./facility → CESQT

>55 gal./mo. → PBR

NO authorization required

**Closed except adding/removing (T22, § 66265.173)
**10 b**

Oil mixed with water OR oil-water separation sludge

- Separation (based on size magnetism or density)
  - Reverse Osmosis

- Phase Separation
  - If avg. amount of oil recovered /mo. <25 barrels AND aqueous waste from gravity settling is non-hazardous

During storage or accumulation in tanks or containers only if, the separation is unaided by the addition of heat or chemical.**

- CA*
- CESW
- NO authorization required

**10 c**

Used oil mixed with water hazardous ONLY because of oil content, EXCLUDING contaminated groundwater, water containing gasoline, or >2% diesel

- Gravity Separation (where aqueous waste is non-hazardous)
  - Centrifugation
  - Membrane Technology (such as reverse osmosis)
  - Heating ≤20 degrees F below flashpoint of the used oil component of the mixture
  - Addition of demulsifiers (to water containing used oil)

- If recovered used oil is properly transported to an authorized offsite oil recycler
  - CEL
- If recovered used oil is NOT properly transported to an authorized offsite oil recycler
  - 10 (a) or (b)

*Must be hazardous solely due to this characteristic

**Closed except adding/removing (T22, § 66265.173)
11 a

Containers ≤110 gallon capacity (no wood, paper, cardboard, fabric or other absorptive material)

Rinsing
Crushing
Shredding
Grinding
Puncturing

If container is exempt per Title 22, 66261.7

NO volume limit

≥ 500 lbs/mo./facility

CESW

CESQT

PBR

11 b

Aerosol Cans

Puncturing
Draining
Crushing

NO authorization required if handler complies with HSC §25201.16 (h) requirements

NO volume limit

≥ 500 lbs/mo.

CESW

CESQT

PBR

12

Resins

Treatment of resins Mixed or Cured in accordance with manufacturer's instructions

NO volume limit

≤ 500 lbs/mo./facility

CESW

CESQT

PBR

Treatment of resins Mixed in accordance with manufacturer's instructions

≤ 500 lbs/mo./facility

>500 lbs/mo.
Photographic Wastes
HSC § 25143.13
(Silver-only RCRA-exempt wastestreams or photoimaging solution (SB 2111))

Silver Recovery

NO authorization required

Dry Cleaning wastes
(hazardous solely due to PCE [perchloroethylene] content)

< 180 gal./mo.

NO authorization required (HSC §25201.8)

> 180 gal./mo.

Go to 3a

Commercial laundry facility
HSC § 25144.6

Reusable textile materials (uniforms, gloves, linens and towels).

CECL
16a

Laboratory Waste
HSC § 25200.3.1

16b

Quality Control or Quality Assurance Laboratory
(HSC § 25201.5(c)(8))

NO authorization required if treatment complies with HSC § 25200.3.1 AB 966 (Stats. 1998, Ch. 506)

NO authorization required if treatment complies with HSC § 25200.3.1 AB 966 (Stats. 1998, Ch. 506)
*Must be hazardous solely due to this characteristic

Healthcare Facilities
- treating formaldehyde

NO authorization required if treatment complies with HSC § 25200.3.1 (AB 966)

Healthcare Facilities
- treating glutaraldehyde or orthophthalaldehyde with glycine per HSC § 25123.5(c)

Wastestream/Technology Combination Certified by DTSC (HSC §§ 25200.3.(a)(10), 25201.5(c)(9))

Technology Certified by DTSC (HSC §§ 25200.1.5, 25201.5(c)(10))

Healthcare Facilities
- treating formaldehyde

Healthcare Facilities
- treating glutaraldehyde or orthophthalaldehyde with glycine per HSC § 25123.5(c)
Sieving or filtering liquid hazardous waste to remove solid fractions, without added heat, chemicals, or pressure, as the waste is added to or removed from a storage or accumulation tank or container. For this activity, sieving or filtering does not include adsorptions, reverse osmosis, or ultrafiltration.

Phase separation of hazardous waste during storage or accumulation in tanks or containers, if the separation is unaided by the addition of heat or chemicals.**

Consolidation from remote sites

Special authorization; Notification required. (DTSC form 1196)

NO authorization required

**Closed except adding/removing (T22, § 66265.173)
Transportable Treatment Units

WASTE STREAM & TREATMENT PROCESSES

-CE-
HSC §25201.5

TTU Owner/Operator is AUTHORIZED

NOTIFICATION FORMS

FORMS
1199 (unit)
1198 (site)

-PBR-
Title 22, CCR
§67450.11

TTU May ONLY operate if TTU Owner / Operator is AUTHORIZED

FORMS
1199 (unit)
1197 (site)

ALL OTHERS

Standardized Permit, Variance, or RD&D

Contact DTSC Regional Staff

Note - SUBMIT TTU NOTIFICATIONS TO DTSC, NOT TO THE CUPA.