

Table A-2. Tank Descriptions, Tanks Requiring Waste Removal and Decontamination during Demolition Activities, Former Encycle/Texas, Inc. Facility, Corpus Christi, Texas

Tank ID	Tank Location	Material of Construction	Tank Capacity (gallons)	Estimated Water Volume (gallons) <sup>a</sup>	Estimated Sludge/Solid Volume (gallons) <sup>a</sup>	Remarks
705040	Facility #1	Wood	40,000	20,000	8,000	NOR Tank (NOR #51)
705060	Facility #1	Stainless Steel	1,500	500	500	NOR Tank (NOR #78)
705100	Facility #1	Stainless Steel	1,000	250	250	
705120	Facility #1	Wood	40,000	25,000	8,000	NOR Tank (NOR #52)
705130	Facility #1	Wood	40,000	25,000	8,000	NOR Tank (NOR #53)
705140	Facility #1	Stainless Steel	1,500	500	500	NOR Tank (NOR #77)
705170	Facility #1	Wood	40,000	20,000	8,000	NOR Tank (NOR #55)
705184	Facility #1	Fiberglass	1,500	500	500	
705300	Facility #1	Wood	20,000	1,000	1,000	
705400	Facility #1	Wood	40,000	5,000	5,000	NOR Tank (NOR #85)
705620	Facility #1	Wood	30,000	10,000	2,000	NOR Tank (NOR #58)
705629	Facility #1	Wood	40,000	10,000	2,000	NOR Tank (NOR #59)
705630	Facility #1	Wood	40,000	10,000	2,000	NOR Tank (NOR #60)
705631	Facility #1	Wood	40,000	10,000	2,000	NOR Tank (NOR #86)
715020	Facility #1	Wood	20,000	10,000	2,000	NOR Tank (NOR #61)
655075	Facility #2	Wood	40,000	10,000	2,000	NOR Tank (NOR #65)
655080	Facility #2	Concrete	121,000	30,000	20,000	NOR Tank (NOR #66)
655128	Facility #2	Wood	40,000	2,000	2,000	NOR Tank (NOR #67)
565160	Facility #2	Stainless Steel	850	100	100	NOR Tank (NOR #201)
Facility 2 Tank 25	Facility #2	Wood	4,000	100	1,000	Old ASARCO Tank on 2nd Floor <sup>b</sup>
Facility 2 Tank 26	Facility #2	Wood	4,000	100	1,000	Old ASARCO Tank on 2nd Floor <sup>b</sup>
Facility 2 Tank 27	Facility #2	Wood	4,000	100	1,000	Old ASARCO Tank on 2nd Floor <sup>b</sup>
Facility 2 Tank 28	Facility #2	Wood	4,000	100	1,000	Old ASARCO Tank on 2nd Floor <sup>b</sup>
80591	WWTP	Steel/FRP	---	0	1,000	Drum Filter
Decontamination Rinse Water <sup>c</sup>	---	---	---	25,000	---	Unit Decontamination Water
				<u>Est. Water Volume: 215,250</u>		
					<u>Est. Sludge/Solids Volume: 78,850</u>	(488 tons) <sup>d</sup>

NOR TCEQ Notice of Registration (NOR) for Solid Waste Registration Number 30003 (Encycle/Texas, Inc.).

WWTP Encycle wastewater treatment plant.

- a Water and sludge thickness visually estimated during April 2010, volumes subject to change due to rainfall and evaporation.
- b These four wooden tanks on the 2nd floor near the northeast end of the Facility #2 building are not safely accessible due to the deteriorated floor. These tanks can be moved during demolition to a safe secondary containment area for decontamination.
- c Average 1,000 gallons of decontamination rinse water per tank. Verification rinse water samples to be collected by others.
- d Estimated Sludge/Solid Volume = 78,850 gallons = 390 cubic yards. 390 cubic yards x 1.25 tons/cubic yard = 488 tons.

Table A-3. Empty Waste Management Units Tanks Requiring Triple-Rinsing during Demolition Activities, Former Encycle/Texas, Inc. Facility, Corpus Christi, Texas

Unit ID	Unit Location	Material of Construction	Remarks
Container Storage Area	<90 Day Storage Building	Concrete	NOR Unit #004
Container Storage Area	Oil House	Concrete	NOR Unit #009
Misc. Storage Area	Drum Shredder Area	Concrete	NOR Unit #014
Container Storage Area	Parking Lot west of Maintenance Bldg.	Concrete	NOR Unit #037
Container Storage Area	North of Scale	Concrete	NOR Unit #038
Container Storage Area	South of Facility #1	Concrete	NOR Unit #039
Container Storage Area	Yard Office Area	Concrete	NOR Unit #041
Container Storage Area	Scrap Metal Rolloff Area by Maintenance Bldg.	Concrete	NOR Unit #042
Container Storage Area	Bermed Concrete area north of Feed Tank 2	Concrete	NOR Unit #043
Container Storage Area	Facility #1 Drum Wash Area	Concrete	NOR Unit #044
Container Storage Area	Paint House	Concrete	NOR Unit #045
Container Storage Area	East of Facility #1	Concrete	NOR Unit #046
Container Storage Area	East of Lettered Bins Building	Concrete	NOR Unit #049
Misc. Storage Area	3-Sided Bin north of Facility #2	Concrete	NOR Unit #190

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- Notes:
- (1) Contractor shall rinse all of the unit floors, collect rinse water (i.e., vacuum truck), and dispose of rinse water at part of Base Bid.
  - (2) Estimate rinse water volume is 1,000 gallons per unit (14,000 gallons total).
  - (3) Verification rinse water sample collection and analysis following unit rinsing to be conducted by others.
  - (4) NOR Unit closure report to be prepared by others.

Table A-4. Residual Hazardous Wastes in Buildings Requiring Removal During Demolition Activities, Former Encycle/Texas, Inc. Facility, Corpus Christi, Texas

Waste Description	Waste Location	Estimated Liquid Volume (gallons)	Estimated Sludge/solid Volume (cubic yards)	TCLP Metals Concentration (mg/L) <sup>a</sup>	Remarks
Smokestack Floor	Smokestack floor and attached brick building.	---	30	Cd = 2.8 - 45 Pb = 7.9 - 14	Debris on smokestack floor and adjacent connected brick building.
West Cell House Floor	Debris on ground level floor and second floor	---	250	Pb = <0.1 - 11	Debris on ground level floor and 2nd floor.
East Baghouse	Debris inside East Baghouse building	---	20	Pb = 9.2	Debris inside baghouse.
West Baghouse	Debris inside West Baghouse building	---	20	Cd = 2.4 - 44 Pb = 13 - 49	Debris inside baghouse.
Facility 1 Silos	Three steel hoppers/silos north of Facility #1	---	100	Pb = <0.1 - 34	Located directly north of Facility #1.
Facility 2 Silos	Six steel hoppers/silos west of Facility #2	---	100	Cd = 0.11 - 31 Pb = 0.15 - 87	Located between Facility #2 and #3.
Facility 4 Silos	Two steel hoppers/silos in Facility #4.	---	50	---	Located at Facility #4.
Percol 611	Wastewater treatment system tank 805324 & Neutralizer building	500	5	---	Wastewater treatment system reagent.
Lime	Facility 1 tank 810040 & WWTP hopper 805362, power house.	2,000	10	---	Wastewater treatment system reagent
Ferric Sulfate	Facility 1 tank 810070	1,000	5	---	Wastewater treatment system reagent
Residual Debris	Debris inside Old Casing Building, East Cell House vessels, West Cell House vessels, Reagent Storage Buildings, Power House vessels, Facility 2 east half, and Facility 1-4 process equipment (debris inside ovens, piping, vessels, etc.)	6,500	450	---	Debris inside plant process equipment and inside piping.
		<u>Estimated Total Waste Volume: 10,000 gal. 1,040 yd<sup>3</sup></u>		<u>(1,300 tons)<sup>b</sup></u>	

TCLP Toxicity characteristic leaching procedure  
 WWTP Encycle wastewater treatment plant  
 --- Not analyzed

a Waste evaluation samples collected during 2000, concentrations exceeding TCLP characteristic limits shown.  
 b Estimated Liquid/Sludge/Solid Volume = 1,040 cubic yards. 1,040 cubic yards x 1.25 tons/cubic yard = 1,300 tons.

**ATTACHMENT A-1**

**DECONTAMINATION RINSEATE  
STANDARDS**

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## 11.0 QUALITY CONSIDERATIONS:

- Strict adherence to the decontamination procedures outlined below will result in the following quality-related benefits:
- The concentration of the decontamination media (water or sand) produced during the decontamination procedure will be less than the decontamination performance standards for the eight RCRA metals listed Table 3.
- Representative grab samples of the units final decontamination media will be collected and analyzed for eight RCRA metals following methods described by "Test Methods for the Evaluation of Solid Waste" (EPA SW-846 Method 6010) and "Standard Methods for the Examination of Water and Wastewater," American Society for Testing and Materials (ASTM) Standard Methods (Method 3120).
  - \* For liquid decontamination media (water), a 1 L unfiltered liquid rinsate sample will be collected and preserved in amber plastic (acid rinsed) containers. Each sample will be acidified to pH < 2 with HNO<sub>3</sub>. (Standard Methods 3010B)
  - \* For solid decontamination media, six (6) random samples will be collected from the final "clean" solid (sand) and combined into a single sample (SW-846).
  - \* Before analysis is conducted for the eight RCRA metals, the detection limit of the instrument must be determined. Detection Limits must be less than the levels listed in Table 3.
  - \* At the minimum for each analytical run a calibration curve composed of a blank, standards, an external reference standard, a replicate, and a known addition to verify the absence of matrix interference must be determined.

**Table 3 - Decontamination Rinsate Standards**

Arsenic	5.00
Barium	100.00
Cadmium	0.50
Chromium	5.00

<b>Lead</b>	<b>1.50</b>
<b>Mercury</b>	<b>0.20</b>
<b>Selenium</b>	<b>1.00</b>
<b>Silver</b>	<b>2.00</b>

\*Units for liquid decontamination media rinsate - mg/L

\*Units for solid decontamination media rinsate - mg/kg

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