Permit Number 90163

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

| Emission Point No. (1) | | Air Contominant Name (2) | Emission | Emission Rates | | |
|------------------------|---|--------------------------|----------|----------------|--|--|
| | Source Name (2) | Air Contaminant Name (3) | lbs/hour | TPY (4) | | |
| 1 | TDU Dryer (32 MMBtu/hr Natural | PM ₁₀ | 0.24 | 1.04 | | |
| | Gas fired) | PM _{2.5} | 0.24 | 1.04 | | |
| | | SO ₂ | 0.02 | 0.08 | | |
| | | NO _x | 3.14 | 13.74 | | |
| | | со | 2.64 | 11.54 | | |
| | | VOC | 0.17 | 0.76 | | |
| | | HAP | 0.06 | 0.32 | | |
| 7 | TDU Steam Boiler (8 MMBtu/hr Natural Gas fired) | PM ₁₀ | 0.06 | 0.26 | | |
| | | PM _{2.5} | 0.06 | 0.26 | | |
| | | SO ₂ | 0.01 | 0.02 | | |
| | | NOx | 0.78 | 3.44 | | |
| | | СО | 0.66 | 2.89 | | |
| | | VOC | 0.04 | 0.19 | | |
| | | HAP | 0.01 | 0.06 | | |
| 8A | TDU Conveyor | PM ₁₀ | 0.02 | 0.03 | | |
| OA | | PM _{2.5} | 0.01 | 0.01 | | |
| op. | TDU Transfer Points (Desorbed Solids Bin) | PM | 0.15 | 0.29 | | |
| 8B | (Described Solids Dill) | PM _{2.5} | 0.02 | 0.04 | | |

| | | | Emissior | Emission Rates | |
|------------------------|-----------------------------|--------------------------------|----------|----------------|--|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | lbs/hour | TPY (4) | |
| | TDU Baghouse/Venturi | PM ₁₀ | 0.09 | 0.38 | |
| | Scrubber | PM _{2.5} | 0.09 | 0.38 | |
| | | VOC | 0.20 | 0.37 | |
| | | H ₂ SO ₄ | 0.01 | 0.01 | |
| | | NH ₃ | 0.01 | 0.03 | |
| BH/Venturi | | HNO₃ | 0.01 | 0.01 | |
| DH/ Veriluii | | H ₃ PO ₄ | 0.01 | 0.01 | |
| | | H ₂ O ₂ | 0.01 | 0.03 | |
| | | НАР | 0.20 | | |
| | | H ₂ S | 0.01 | 0.27 (0) | |
| | | HF | 0.01 | 0.37 (8) | |
| | | HCI | 0.01 | | |
| | TDU Cooling Tower | PM | 0.62 | 2.72 | |
| СТ | | PM ₁₀ | 0.62 | 2.72 | |
| | | PM _{2.5} | 0.62 | 2.72 | |
| | TDU Centrifuge Cake Rolloff | VOC | 11.84 | 1.76 | |
| | Kolloli | HAP | 4.23 | | |
| | | H ₂ S | <0.01 | 0.04 (0) | |
| | | HF | <0.01 | 0.04 (8) | |
| BOX-1 | | HCI | 0.03 | | |
| | | NH ₃ | 0.15 | 0.06 | |
| | | HNO₃ | 0.01 | <0.01 | |
| | | H ₃ PO ₄ | <0.01 | <0.01 | |
| | | H ₂ O ₂ | <0.01 | <0.01 | |

| | | | Emission Rates | | |
|------------------------|-------------------------------|--------------------------------|----------------|-----------|--|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | lbs/hour | TPY (4) | |
| | TDU Centrifuge Cake Rolloff | voc | 11.84 | 1.76 | |
| | Kolloli | HAP | 4.23 | | |
| | | H ₂ S | <0.01 | 0.04(0) | |
| | | HF | <0.01 | 0.04 (8) | |
| BOX-1B | | HCI | 0.03 | | |
| | | NH ₃ | 0.15 | 0.06 | |
| | | HNO ₃ | 0.01 | <0.01 | |
| | | H ₃ PO ₄ | <0.01 | <0.01 | |
| | | H ₂ O ₂ | <0.01 | <0.01 | |
| | TDU Gas Treatment Cake Box | VOC | 0.36 | 0.42 | |
| | Cake box | HAP | 0.13 | | |
| | | H ₂ S | <0.01 | 0.04 (0) | |
| | | HF | <0.01 | <0.01 (8) | |
| BOX-2 | | HCI | <0.01 | | |
| | | NH ₃ | <0.01 | 0.02 | |
| | | HNO ₃ | <0.01 | <0.01 | |
| | | H ₃ PO ₄ | <0.01 | <0.01 | |
| | | H ₂ O ₂ | <0.01 | <0.01 | |
| | TDU Shaker Box | VOC | 0.47 | 0.14 | |
| | | НАР | 0.17 | | |
| | | H ₂ S | <0.01 | 0.04 (0) | |
| | | HF | <0.01 | <0.01 (8) | |
| SHAKER | | HCI | <0.01 | | |
| | | NH ₃ | <0.01 | <0.01 | |
| | | HNO ₃ | <0.01 | <0.01 | |
| | | H ₃ PO ₄ | <0.01 | <0.01 | |
| | | H ₂ O ₂ | <0.01 | <0.01 | |

| | | | Emissior | Emission Rates | | |
|------------------------|-------------------------------|--------------------------------|----------|----------------|--|--|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | lbs/hour | TPY (4) | | |
| | Feed Bin Fugitives (5) | VOC | 14.26 | 9.09 | | |
| | | HAP | 5.09 | | | |
| | | H ₂ S | <0.01 | 0.40 (0) | | |
| | | HF | <0.01 | 0.18 (8) | | |
| BIN-FUG | | HCI | 0.03 | | | |
| | | NH ₃ | 0.18 | 0.33 | | |
| | | HNO ₃ | 0.02 | 0.03 | | |
| | | H ₃ PO ₄ | <0.01 | <0.01 | | |
| | | H ₂ O ₂ | <0.01 | 0.02 | | |
| | Fixed Bin Fugitives | VOC | 9.75 | 6.53 | | |
| | | HAP | 3.48 | | | |
| | | H ₂ S | <0.01 | | | |
| | | HF | <0.01 | 0.13 | | |
| FXBIN-FUG | | HCI | 0.02 | | | |
| | | NH ₃ | 0.13 | 0.24 | | |
| | | HNO ₃ | 0.01 | 0.02 | | |
| | | H ₃ PO ₄ | <0.01 | <0.01 | | |
| | | H ₂ O ₂ | <0.01 | <0.01 | | |
| | Carbon Adsorption System 1 | VOC | 0.01 | 0.01 | | |
| | System 1 | HAP | 0.01 | | | |
| | | H ₂ S | 0.01 | 0.040 (0) | | |
| | | HF | 0.01 | 0.013 (8) | | |
| CARBFLT1 | | HCI | 0.01 | | | |
| | | NH ₃ | 0.01 | 0.01 | | |
| | | HNO ₃ | 0.01 | 0.01 | | |
| | | H ₃ PO ₄ | 0.01 | 0.01 | | |
| | | H ₂ O ₂ | 0.01 | 0.01 | | |

| | | | Emissior | Emission Rates | |
|------------------------|-------------------------------|--------------------------------|----------|----------------|--|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | lbs/hour | TPY (4) | |
| | Carbon Adsorption System 2 | VOC | 0.10 | 0.03 | |
| | System 2 | HAP | 0.10 | | |
| | | H ₂ S | 0.01 | 0.00 (0) | |
| | | HF | 0.01 | 0.03 (8) | |
| CARBFLT2 | | HCI | 0.01 | | |
| | | NH ₃ | 0.01 | 0.01 | |
| | | HNO ₃ | 0.01 | 0.01 | |
| | | H ₃ PO ₄ | 0.01 | 0.01 | |
| | | H ₂ O ₂ | 0.01 | 0.01 | |
| | Carbon Adsorption System 3 | VOC | 0.15 | 0.01 | |
| | System 3 | HAP | 0.15 | | |
| | | H ₂ S | 0.01 | 0.04 (0) | |
| | | HF | 0.01 | 0.01 (8) | |
| CARBFLT3 | | HCI | 0.01 | | |
| | | NH ₃ | 0.01 | 0.01 | |
| | | HNO ₃ | 0.01 | 0.01 | |
| | | H ₃ PO ₄ | 0.01 | 0.01 | |
| | | H ₂ O ₂ | 0.01 | 0.01 | |
| | TDU Piping Fugitives (5) | VOC | 0.16 | 0.18 | |
| | (3) | НАР | 0.03 | | |
| | | H ₂ S | 0.01 | 0.00 (0) | |
| | | HF | 0.01 | 0.02 (8) | |
| FUG-TDU | | HCI | 0.01 | | |
| | | NH ₃ | 0.024 | 0.10 | |
| | | HNO₃ | 0.01 | 0.01 | |
| | | H ₃ PO ₄ | 0.01 | 0.01 | |
| | | H ₂ O ₂ | 0.01 | 0.04 | |

| | | Air Contaminant Name (3) | Emission Rates | | |
|------------------------|---|--------------------------------|----------------|----------|--|
| Emission Point No. (1) | Source Name (2) | | lbs/hour | TPY (4) | |
| | TDU Product Loading | voc | 0.36 | 0.01 | |
| | | HAP | 0.36 | | |
| | | H ₂ S | 0.01 | 0.04 (0) | |
| | | HF | 0.01 | 0.01 (8) | |
| PROD-LOAD | | HCI | 0.01 | | |
| | | NH ₃ | 0.05 | 0.01 | |
| | | HNO ₃ | 0.01 | 0.01 | |
| | | H ₃ PO ₄ | 0.01 | 0.01 | |
| | | H ₂ O ₂ | 0.02 | 0.01 | |
| | Cement Kiln Dust Stock Pile | РМ | 0.01 | 0.05 | |
| FUG-2 | Stock i lie | PM ₁₀ | 0.01 | 0.05 | |
| | | PM _{2.5} | 0.01 | 0.05 | |
| | Stabilization Building 2 Process Fugitives (5) | PM ₁₀ | 0.01 | 0.03 | |
| | Frocess rugilives (5) | PM _{2.5} | <0.01 | <0.01 | |
| | | VOC | 15.08 | (6) | |
| | | НАР | 15.08 | | |
| | | H ₂ S | 0.01 | (7) (0) | |
| FUG-1 | | HF | 0.01 | (7) (8) | |
| | | нсі | 0.42 | | |
| | | NH ₃ | 0.36 | 2.90 | |
| | | HNO ₃ | 0.12 | 1.11 | |
| | | H ₃ PO ₄ | 0.03 | 0.42 | |
| | | H ₂ O ₂ | 0.02 | 0.15 | |
| | Stabilization Building 2 Baghouse | PM ₁₀ | 2.14 | 3.43 | |
| DL1 | Dagilouse | PM _{2.5} | 2.14 | 3.43 | |
| BH1 | | VOC | 135.76 | (6) | |
| | | HAP | 135.76 | (7) (8) | |

| Footstee Bata(No. (4) | | | Emission Rates | |
|------------------------|--------------------------------------|--------------------------------|-----------------------|---------|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | lbs/hour | TPY (4) |
| | | H ₂ S | 0.01 | |
| | | HF | 0.11 | |
| | | HCI | 3.77 | |
| | | NH ₃ | 3.25 | 2.61 |
| | | HNO ₃ | 1.09 | 1.00 |
| | | H ₃ PO ₄ | 0.24 | 0.38 |
| | | H ₂ O ₂ | 0.16 | 0.13 |
| | Stabilization Building 3 Baghouse | PM ₁₀ | 2.14 | 3.43 |
| | Bagnouse | PM _{2.5} | 2.14 | 3.43 |
| | | VOC | 122.74 | (6) |
| | | HAP | 122.74 | (7) (8) |
| | | H ₂ S | 0.01 | |
| H2 | | HF | 0.02 | |
| | | HCI | 2.11 | |
| | | NH ₃ | 2.38 | 2.18 |
| | | HNO ₃ | 0.60 | 0.84 |
| | | H ₃ PO ₄ | 0.13 | 0.21 |
| | | H ₂ O ₂ | 0.14 | 0.11 |
| | Stabilization Building 3 | PM ₁₀ | 2.14 | 3.43 |
| | Baghouse | PM _{2.5} | 2.14 | 3.43 |
| | | VOC | 122.74 | (6) |
| | | НАР | 122.74 | |
| H7 | | H ₂ S | 0.01 | (7) (2) |
| | | HF | 0.18 | (7) (8) |
| | | HCI | 2.11 | |
| | | NH ₃ | 2.38 | 2.18 |
| | | HNO ₃ | 0.60 | 0.84 |

| | 0 11 (0) | | Emission Rates | | |
|------------------------|---|--------------------------------|----------------|----------|--|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | lbs/hour | TPY (4) | |
| | | H ₃ PO ₄ | 0.13 | 0.21 | |
| | | H ₂ O ₂ | 0.14 | 0.11 | |
| | Stabilization Building 3 Process Fugitives (5) | PM ₁₀ | <0.01 | <0.01 | |
| | Process rugilives (5) | PM _{2.5} | <0.01 | <0.01 | |
| | | VOC | 27.28 | (6) | |
| | | HAP | 27.28 | | |
| | | H ₂ S | 0.01 | (7) (0) | |
| FUG-3 | | HF | 0.01 | (7) (8) | |
| | | HCI | 0.47 | | |
| | | NH ₃ | 0.53 | 0.49 | |
| | | HNO ₃ | 0.13 | 0.19 | |
| | | H ₃ PO ₄ | 0.03 | 0.05 | |
| | | H ₂ O ₂ | 0.03 | 0.02 | |
| FUG-1, BH1, BH2, BH7, | Stabilization Buildings Annual Emission Caps | VOC | | 22.23 | |
| and FUG-3 | | HAP | | 4.38 (8) | |
| | Catalyst Building | PM ₁₀ | 1.71 | 5.49 | |
| BH4 | Baghouse | PM _{2.5} | 1.71 | 5.49 | |
| | | НАР | 0.17 | 0.55 | |
| | Drum Loading Fugitives 1 (from | PM ₁₀ | <0.01 | <0.01 | |
| CAT-FUG1 | Catalyst Building) (5) | PM _{2.5} | <0.01 | <0.01 | |
| | | НАР | <0.01 | <0.01 | |
| | Drum Loading Fugitives 2 (from | PM ₁₀ | 0.01 | 0.01 | |
| CAT-FUG2 | outside) (5) | PM _{2.5} | 0.01 | 0.01 | |
| | | HAP | 0.01 | 0.01 | |

| Fundada B. C. C. | | | Emission | Rates |
|------------------------|-----------------------------------|--------------------------------|----------|----------|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | lbs/hour | TPY (4) |
| | Thermal Oxidizer (15 MMBtu/hr) | PM ₁₀ | 0.12 | 0.51 |
| | WiiviBtu/III) | PM _{2.5} | 0.12 | 0.51 |
| | | SO ₂ | 54.80 | 26.27 |
| | | NOx | 25.43 | 28.53 |
| | | со | 1.24 | 5.41 |
| | | VOC | 6.10 | 1.56 |
| | | HAP | 120.8 | |
| | | H₂S | 0.01 | _ |
| TO. | | Total As (9) | 10.70 | 9.11 (8) |
| ТО | | HF | 40.40 | |
| | | HCI | 107.00 | |
| | | H ₂ SO ₄ | 0.01 | 0.03 |
| | | Total Bromine | 98.60 | 98.64 |
| | | Total Iodine | 44.30 | 14.77 |
| | | NH ₃ | 0.17 | 0.12 |
| | | HNO ₃ | 17.5 | 8.99 |
| | | H ₃ PO ₄ | 2.40 | 4.76 |
| | | H ₂ O ₂ | 0.06 | 0.11 |
| Landfill | Landfill Emissions | VOC | 0.55 | 2.40 |
| | | HAP | 0.08 | 0.35 |

| | | Air Contaminant Name (3) | Emission Rates | |
|-------------------------|--------------------------------|--------------------------------|-----------------------|----------|
| Emission Point No. (1) | Source Name (2) | | lbs/hour | TPY (4) |
| Maintenance, Startup, a | and Shutdown (MSS) | | | |
| TANK-MSS | Tank Opening MSS | voc | 4.06 | 0.09 |
| | | НАР | 0.95 | 0.02 |
| WWTANK-MSS | Wastewater Tank Opening MSS | voc | 0.40 | <0.01 |
| | Sperming Mice | HAP | 0.40 | <0.01 |
| CARB-VNTMSS | Carbon MSS Venting | VOC | <0.01 | <0.01 |
| | | НАР | <0.01 | <0.01 |
| | | H ₂ S | <0.01 | <0.01 |
| | | NH ₃ | <0.01 | <0.01 |
| | | HNO ₃ | <0.01 | <0.01 |
| | | H ₃ PO ₄ | <0.01 | <0.01 |
| | | H ₂ O ₂ | <0.01 | <0.01 |
| EQUIP-MSS | Equipment Purging and Opening | voc | 17.36 | 0.04 |
| | | НАР | 3.49 | |
| | | H ₂ S | 0.01 | 0.04 (9) |
| | | HF | 0.01 | 0.01 (8) |
| | | HCI | 0.01 | |
| | | NH ₃ | 0.01 | 0.01 |
| | | HNO ₃ | 0.01 | 0.01 |
| | | H ₃ PO ₄ | 0.01 | 0.01 |
| | | H ₂ O ₂ | 0.01 | 0.01 |
| ΓPAINT-MSS | TDX Sitewide Painting | PM ₁₀ | 0.49 | 0.05 |
| | | PM _{2.5} | 0.49 | 0.05 |
| | | VOC | 16.65 | 1.66 |
| | | НАР | 0.40 | 0.04 |
| JPAINT-MSS | USET Sitewide Painting | PM ₁₀ | 0.01 | 0.01 |
| | raililly | PM _{2.5} | 0.01 | 0.01 |

| | | | Emission Rates | | |
|------------------------|------------------------------------|--------------------------------|----------------|----------|--|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | lbs/hour | TPY (4) | |
| | | VOC | 18.77 | 0.19 | |
| | | HAP | 0.80 | 0.01 | |
| TBLAST-MSS | TDX Sitewide Abrasive Blasting | PM ₁₀ | 0.17 | 0.01 | |
| | Biasting | PM _{2.5} | 0.03 | 0.01 | |
| UBLAST-MSS | USET Sitewide Abrasive Blasting | PM ₁₀ | 0.34 | 0.01 | |
| | Abrasive blasting | PM _{2.5} | 0.05 | 0.01 | |
| TO-SRTMSS | Thermal Oxidizer Startup | PM ₁₀ | 0.06 | 0.01 | |
| | Startup | PM _{2.5} | 0.06 | 0.01 | |
| | | SO ₂ | 0.01 | 0.01 | |
| | | NOx | 0.45 | 0.01 | |
| | | со | 3.09 | 0.06 | |
| | | VOC | 0.04 | 0.01 | |
| | | HAP | 0.01 | 0.01 | |
| TO-VNTMSS | Thermal Oxidizer MSS Venting | VOC | 8.55 | 0.03 | |
| | | HAP | 8.21 | 0.03 | |
| | | H ₂ S | <0.01 | | |
| | | NH ₃ | 0.18 | <0.01 | |
| | | HNO ₃ | 5.49 | <0.01 | |
| | | H ₃ PO ₄ | 0.22 | <0.01 | |
| | | H ₂ O ₂ | <0.01 | <0.01 | |
| DWELL-MSS | Deepwell Maintenance | VOC | 2.85 | 0.04 | |
| | | НАР | 2.85 | | |
| | | H ₂ S | 0.01 | 0.04 (0) | |
| | | HF | 0.01 | 0.04 (8) | |
| | | HCI | 0.01 | | |
| | | NH ₃ | 0.01 | 0.01 | |
| | | HNO ₃ | 0.01 | 0.01 | |

| Emission Point No. (1) | 0 N (0) | A's O and any in and Name (O) | Emission Rates | |
|------------------------|----------------------------|--------------------------------|----------------|---------|
| | Source Name (2) | Air Contaminant Name (3) | lbs/hour | TPY (4) |
| | | H ₃ PO ₄ | 0.01 | 0.01 |
| | | H ₂ O ₂ | 0.01 | 0.01 |
| | Baghouse Filter Changes | PM ₁₀ | 0.08 | 0.01 |
| | | PM _{2.5} | 0.01 | 0.01 |
| | Washout Facility Emissions | voc | 63.05 | 11.88 |
| | L11113310113 | НАР | 29.82 | 3.01 |

- (1) Emission point identification either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - NO_x total oxides of nitrogen
 - SO₂ sulfur dioxide
 - PM total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented PM₁₀ total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 - PM_{2.5} particulate matter equal to or less than 2.5 microns in diameter
 - CO carbon monoxide
 - HAP hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
 - H₂S hydrogen sulfide (delisted HAP)

As - arsenic (HAP) H₂SO₄ - sulfuric acid - ammonia NH₃ HNO_3 - nitric acid H_3PO_4 - phosphoric acid - hydrogen peroxide H_2O_2 - hydrogen chloride (HAP) HCI HF - hydrogen fluoride (HAP)

- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) The annual VOC emissions from this source are included in the Stabilization Buildings Annual VOC Emission Cap of 22.23 tpy.
- (7) The annual H₂S, HF, and HCl emissions from this source are included in the Stabilization Buildings Annual HAP cap of 4.38 tpv.
- (8) Emission limit applies to the sum of total HAP emissions (including but not limited to HF and HCl) and H2S emissions.
- (9) Total Arsenic includes elemental arsenic and arsenic compounds.

| Date: | July 31, 2020 | |
|-------|---------------|--|