

**2023 CONTAMINANT SUMMARY REPORT**

November 01, 2024

1:23 pm

**CN :** CN601178734**Organization :** VOPAK TERMINAL DEER PARK INC**RN :** RN100225093**Account :** HG0629I**Site :** DEER PARK TERMINAL**Last EI Date :** 12/31/2023**CRITERIA EMISSIONS TOTALS**

| Pollutant Class | Annual (TPY) | Ozone (PPD) | SMSS (TPY) | Emiss Event (TPY) | EE/SMSS (TPY) |
|-----------------|--------------|-------------|------------|-------------------|---------------|
| PM2.5           | 0.3596       | 1.9709      | 0.0000     | 0.0000            | 0.0000        |
| VOC             | 314.0250     | 1405.7288   | 5.5016     | 0.0000            | 5.5016        |
| CO              | 41.9611      | 229.9244    | 3.0947     | 0.0000            | 3.0947        |
| NOX             | 5.7634       | 31.5800     | 2.0555     | 0.0000            | 2.0555        |
| SO2             | 0.7218       | 3.9555      | 0.0583     | 0.0000            | 0.0583        |
| PM10            | 0.3596       | 1.9709      | 0.0000     | 0.0000            | 0.0000        |

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| Contam | Contam Name                    | Annual (TPY) | Ozone (PPD) | SMSS (TPY) | Emiss Event (TPY) | EE/SMSS (TPY) |
|--------|--------------------------------|--------------|-------------|------------|-------------------|---------------|
| 10000  | PART-U                         | 0.3596       | 1.9709      | 0.2805     | 0.0000            | 0.2805        |
| 14630  | SODIUM HYDROXIDE, NAOH         | 1.5320       | 8.3939      | 0.0000     | 0.0000            | 0.0000        |
| 20000  | PM10 PART-U                    | 0.3596       | 1.9709      | 0.0000     | 0.0000            | 0.0000        |
| 39999  | TOTAL PM2.5 PARTICULATE        | 0.3596       | 1.9709      | 0.0000     | 0.0000            | 0.0000        |
| 50001  | VOC-UNCLASSIFIED               | 12.1117      | 269.1891    | 5.5016     | 0.0000            | 5.5016        |
| 51120  | ACETIC ACID                    | 0.2211       | 1.2112      | 0.0000     | 0.0000            | 0.0000        |
| 51400  | ALCOHOLS-U                     | 2.7554       | 15.0975     | 0.0000     | 0.0000            | 0.0000        |
| 51421  | FATTY ALCOHOLS                 | 0.2085       | 1.1419      | 0.0000     | 0.0000            | 0.0000        |
| 51440  | N-BUTYL ALCOHOL                | 0.6967       | 3.8169      | 0.0000     | 0.0000            | 0.0000        |
| 51460  | ETHANOL                        | 1.0884       | 5.9636      | 0.0000     | 0.0000            | 0.0000        |
| 51470  | GLYCOLS-U                      | 0.0034       | 0.0188      | 0.0000     | 0.0000            | 0.0000        |
| 51471  | ETHYLENE GLYCOL                | 0.0001       | 0.0004      | 0.0000     | 0.0000            | 0.0000        |
| 51472  | PROPYLENE GLYCOL               | 0.0005       | 0.0026      | 0.0000     | 0.0000            | 0.0000        |
| 51473  | DIETHYLENE GLYCOL              | 0.0008       | 0.0041      | 0.0000     | 0.0000            | 0.0000        |
| 51479  | DIPROPYLENE GLYCOL             | 0.0000       | 0.0003      | 0.0000     | 0.0000            | 0.0000        |
| 51482  | TRIETHYLENE GLYCOL             | 0.0007       | 0.0039      | 0.0000     | 0.0000            | 0.0000        |
| 51488  | PROPYLENE GLYCOL T-BUTYL ETHER | 0.0037       | 0.0206      | 0.0000     | 0.0000            | 0.0000        |
| 51490  | ISOBUTANOL                     | 0.0106       | 0.0580      | 0.0000     | 0.0000            | 0.0000        |
| 51492  | POLYOL                         | 0.0025       | 0.0145      | 0.0000     | 0.0000            | 0.0000        |
| 51510  | ISOPROPANOL                    | 1.1070       | 6.0655      | 0.0000     | 0.0000            | 0.0000        |
| 51570  | N-PROPANOL                     | 0.2522       | 1.3820      | 0.0000     | 0.0000            | 0.0000        |
| 51580  | SEC BUTYL ALCOHOL              | 0.0119       | 0.0651      | 0.0000     | 0.0000            | 0.0000        |
| 51590  | TERT BUTYL ALCOHOL             | 0.9716       | 5.3240      | 0.0000     | 0.0000            | 0.0000        |
| 51751  | PENTADIENE E-1,3               | 0.0680       | 0.3724      | 0.0000     | 0.0000            | 0.0000        |
| 51760  | PIPERYLENE, CIS-               | 5.6200       | 0.0000      | 0.0000     | 0.0000            | 0.0000        |
| 51810  | ALKANES-U                      | 0.0011       | 0.0062      | 0.0000     | 0.0000            | 0.0000        |
| 52420  | BENZENE                        | 20.5324      | 112.5069    | 0.0000     | 0.0000            | 0.0000        |
| 52440  | CUMENE                         | 0.1406       | 0.0276      | 0.0000     | 0.0000            | 0.0000        |
| 52450  | ETHYL BENZENE                  | 0.2612       | 0.0614      | 0.0000     | 0.0000            | 0.0000        |

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| Contam | Contam Name                        | Annual (TPY) | Ozone (PPD) | SMSS (TPY) | Emiss Event (TPY) | EE/SMSS (TPY) |
|--------|------------------------------------|--------------|-------------|------------|-------------------|---------------|
| 52480  | STYRENE                            | 6.7289       | 36.8708     | 0.0000     | 0.0000            | 0.0000        |
| 52490  | TOLUENE                            | 0.2157       | 1.1817      | 0.0000     | 0.0000            | 0.0000        |
| 52516  | PARA-XYLENE                        | 0.0974       | 0.5342      | 0.0000     | 0.0000            | 0.0000        |
| 52600  | ESTERS-U                           | 1.2648       | 6.9300      | 0.0000     | 0.0000            | 0.0000        |
| 52640  | BUTYL ACETATE                      | 0.0058       | 0.0322      | 0.0000     | 0.0000            | 0.0000        |
| 52641  | ISOBUTYL ACETATE                   | 0.0193       | 0.1063      | 0.0000     | 0.0000            | 0.0000        |
| 52680  | ETHYL ACETATE                      | 1.3536       | 7.4169      | 0.0000     | 0.0000            | 0.0000        |
| 52800  | ETHERS-U                           | 7.9414       | 0.0075      | 0.0000     | 0.0000            | 0.0000        |
| 52815  | METHYL TERT BUTYL ETHER            | 44.2000      | 0.0000      | 0.0000     | 0.0000            | 0.0000        |
| 52830  | GLYCOL ETHERS CELLOSOLVES          | 0.0471       | 0.2581      | 0.0000     | 0.0000            | 0.0000        |
| 52834  | PROPYLENE GLYCOL MONOMETHYL ETHER  | 0.0004       | 0.0023      | 0.0000     | 0.0000            | 0.0000        |
| 52878  | METHYL TERT-BUTYL ETHER            | 48.0016      | 263.0231    | 0.0000     | 0.0000            | 0.0000        |
| 52884  | BUTYL ETHYL ETHER, TERT-           | 3.8377       | 21.0283     | 0.0000     | 0.0000            | 0.0000        |
| 52891  | VINYL ACETATE                      | 2.1375       | 11.7125     | 0.0000     | 0.0000            | 0.0000        |
| 52920  | ISOPROPYL ETHER                    | 1.5818       | 8.6673      | 0.0000     | 0.0000            | 0.0000        |
| 54020  | ACETONE                            | 5.2506       | 28.7699     | 0.0000     | 0.0000            | 0.0000        |
| 54065  | METHYL ETHYL KETONE                | 3.4903       | 19.1256     | 0.0000     | 0.0000            | 0.0000        |
| 54070  | METHYL ISOBUTYL KETONE             | 0.5506       | 3.0175      | 0.0000     | 0.0000            | 0.0000        |
| 55000  | OLEFINS-U                          | 2.7008       | 14.7982     | 0.0000     | 0.0000            | 0.0000        |
| 55003  | DECENE,1-                          | 0.1456       | 0.7968      | 0.0000     | 0.0000            | 0.0000        |
| 55250  | DODECENE                           | 0.1923       | 1.0550      | 0.0000     | 0.0000            | 0.0000        |
| 55450  | ISOPRENE                           | 13.5614      | 74.3091     | 0.0000     | 0.0000            | 0.0000        |
| 56000  | PARAFFINS-U                        | 0.0931       | 0.5097      | 0.0000     | 0.0000            | 0.0000        |
| 56575  | HEPTANE                            | 0.4300       | 2.3568      | 0.0000     | 0.0000            | 0.0000        |
| 56590  | HEXENE                             | 20.8484      | 114.2382    | 0.0000     | 0.0000            | 0.0000        |
| 56600  | HEXANE                             | 4.3655       | 23.9210     | 0.0000     | 0.0000            | 0.0000        |
| 56615  | DIISOBUTYLENE                      | 3.5346       | 19.3681     | 0.0000     | 0.0000            | 0.0000        |
| 56673  | OCTENE                             | 1.2896       | 7.0669      | 0.0000     | 0.0000            | 0.0000        |
| 56750  | PENTANE                            | 0.7807       | 4.2780      | 0.0000     | 0.0000            | 0.0000        |
| 58233  | ISOBUTYRIC ACID                    | 0.0021       | 0.0114      | 0.0000     | 0.0000            | 0.0000        |
| 58242  | DIPHENYLMETHANE-4, 4- DIISOCYANATE | 0.0048       | 0.0265      | 0.0000     | 0.0000            | 0.0000        |
| 58480  | PROPYLENE OXIDE                    | 30.8963      | 169.2933    | 0.0000     | 0.0000            | 0.0000        |
| 58500  | TETRAHYDROFURAN                    | 5.7552       | 31.5346     | 0.0000     | 0.0000            | 0.0000        |
| 58997  | PYROLYSIS GASOLINE                 | 40.3899      | 22.6293     | 0.0000     | 0.0000            | 0.0000        |
| 58998  | ALIPHATIC PETROLEUM DISTILLATE     | 0.0619       | 0.3400      | 0.0000     | 0.0000            | 0.0000        |
| 59002  | DISTILLATE                         | 0.4033       | 2.2102      | 0.0000     | 0.0000            | 0.0000        |
| 59003  | GASOLINE                           | 0.1615       | 0.8851      | 0.0000     | 0.0000            | 0.0000        |
| 59006  | MINERAL OIL                        | 0.0025       | 0.0137      | 0.0000     | 0.0000            | 0.0000        |

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|--------|-----------------|--------------|-------------|------------|-------------------|---------------|
| 59007  | LUBRICATING OIL | 9.0682       | 49.6891     | 0.0000     | 0.0000            | 0.0000        |
| 59200  | FUEL OIL-U      | 1.8875       | 10.3439     | 0.0000     | 0.0000            | 0.0000        |
| 59210  | NO 2 FUEL OIL   | 0.0900       | 0.0000      | 0.0000     | 0.0000            | 0.0000        |
| 59300  | NAPHTHA         | 9.8158       | 53.7851     | 0.0000     | 0.0000            | 0.0000        |
| 70400  | NITROGEN OXIDES | 5.7634       | 31.5800     | 2.0555     | 0.0000            | 2.0555        |
| 70510  | SULFUR DIOXIDE  | 0.7218       | 3.9555      | 0.0583     | 0.0000            | 0.0583        |
| 90300  | CARBON MONOXIDE | 41.9611      | 229.9244    | 3.0947     | 0.0000            | 3.0947        |

**HAPS SUMMARY REPORT**

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|--------|------------------------------------|--------------|-------------|------------|-------------------|---------------|
| 51471  | ETHYLENE GLYCOL                    | 0.0001       | 0.0004      | 0.0000     | 0.0000            | 0.0000        |
| 52420  | BENZENE                            | 20.5324      | 112.5069    | 0.0000     | 0.0000            | 0.0000        |
| 52440  | CUMENE                             | 0.1406       | 0.0276      | 0.0000     | 0.0000            | 0.0000        |
| 52450  | ETHYL BENZENE                      | 0.2612       | 0.0614      | 0.0000     | 0.0000            | 0.0000        |
| 52480  | STYRENE                            | 6.7289       | 36.8708     | 0.0000     | 0.0000            | 0.0000        |
| 52490  | TOLUENE                            | 0.2157       | 1.1817      | 0.0000     | 0.0000            | 0.0000        |
| 52516  | PARA-XYLENE                        | 0.0974       | 0.5342      | 0.0000     | 0.0000            | 0.0000        |
| 52815  | METHYL TERT BUTYL ETHER            | 44.2000      | 0.0000      | 0.0000     | 0.0000            | 0.0000        |
| 52830  | GLYCOL ETHERS CELLOSOLVES          | 0.0471       | 0.2581      | 0.0000     | 0.0000            | 0.0000        |
| 52878  | METHYL TERT-BUTYL ETHER            | 48.0016      | 263.0231    | 0.0000     | 0.0000            | 0.0000        |
| 52891  | VINYL ACETATE                      | 2.1375       | 11.7125     | 0.0000     | 0.0000            | 0.0000        |
| 54070  | METHYL ISOBUTYL KETONE             | 0.5506       | 3.0175      | 0.0000     | 0.0000            | 0.0000        |
| 56600  | HEXANE                             | 4.3655       | 23.9210     | 0.0000     | 0.0000            | 0.0000        |
| 58242  | DIPHENYLMETHANE-4, 4- DIISOCYANATE | 0.0048       | 0.0265      | 0.0000     | 0.0000            | 0.0000        |
| 58480  | PROPYLENE OXIDE                    | 30.8963      | 169.2933    | 0.0000     | 0.0000            | 0.0000        |
| Total  |                                    | 158.1797     | 622.4350    | 0.0000     | 0.0000            | 0.0000        |