

Commonwealth of Virginia  
Division of Consolidated Laboratory Services

600 North 5th St.  
Richmond, Virginia 23219  
804-648-4480



Report Date: 07/01/2021  
DCLS LIMS #: E210608681

**REPORT OF ANALYSIS**

**Mail To**

DEQ-OFFICE OF AIR PROGRAMS  
4949-C COX RD  
GLEN ALLEN, VA 23060

**Sample Information**

|                      |                  |                         |                                      |
|----------------------|------------------|-------------------------|--------------------------------------|
| <b>DATE RECEIVED</b> | 06/23/2021 13:15 | <b>PROGRAM CODE</b>     | AM                                   |
| <b>SAMPLING DATE</b> | 06/18/2021 22:00 | <b>STATION ID</b>       | BRISTOL LANDFILL                     |
| <b>COLLECTED BY</b>  | STACY A. BOWERS  | <b>CONTAINER ID</b>     | 533                                  |
| <b>SAMPLE MATRIX</b> | Air              | <b>REGION CODE</b>      | 404                                  |
| <b>ORDERED TEST</b>  | TO15             | <b>STATION LOCATION</b> | BRISTOL VIRGINIA LANDFILL LOCATION 3 |
| <b>REPORT BDL</b>    | Y                |                         | COMMERCIAL                           |
|                      |                  | <b>LOCATION</b>         | BRISTOL VIRGINIA LANDFILL            |
|                      |                  | <b>SAMPLE ID</b>        | B061821                              |

**Test Results**

**APPROVED BY:** APIERCE, Group Manager      **DATE APPROVED:** 07/01/2021

| <u>METHOD</u>   | <u>PARAMETER</u>   | <u>RESULT</u> | <u>AQS</u> | <u>ANALYSIS DATE</u> |
|-----------------|--|---------------|------------|----------------------|
| <u>EPA TO15</u> | Non-Target Compounds   | Found         |            | 06/23/2021           |
|                 | <i>Identified: Propane, Acetaldehyde, Butane, Ethanol, Acetone, Isopropyl Alcohol, Pentane, 2-methyl-1,3-Butadiene, 2-Butanone, 2,3-dimethyl-Butane.</i> |               |            |                      |
|                 | Propylene  | < 0.125 ppbV  | 43205      | 06/23/2021           |
|                 | Dichlorodifluoromethane  | 0.51 ppbV     | 43823      | 06/23/2021           |
|                 | Chloromethane  | 0.69 ppbV     | 43801      | 06/23/2021           |
|                 | Freon 114  | < 0.125 ppbV  | 43208      | 06/23/2021           |
|                 | Vinyl Chloride   | < 0.125 ppbV  | 43860      | 06/23/2021           |
|                 | 1,3-Butadiene  | < 0.125 ppbV  | 43218      | 06/23/2021           |
|                 | Bromomethane   | < 0.125 ppbV  | 43819      | 06/23/2021           |
|                 | Ethyl Chloride   | < 0.125 ppbV  | 43812      | 06/23/2021           |
|                 | Acetonitrile   | < 0.125 ppbV  | 43702      | 06/23/2021           |
|                 | Acrolein   | 0.60 ppbV     | 43505      | 06/23/2021           |
|                 | <i>PARAMETER QUALIFIER: CCV recovery exceeded the method acceptance limit. Analyte could be biased high.</i>   |               |            |                      |
|                 | Freon 11   | 0.23 ppbV     | 43811      | 06/23/2021           |
|                 | Acrylonitrile  | < 0.125 ppbV  | 43704      | 06/23/2021           |
|                 | 1,1-Dichloroethene   | < 0.125 ppbV  | 43826      | 06/23/2021           |
|                 | Methylene Chloride   | 0.14 ppbV     | 43802      | 06/23/2021           |
|                 | 1,1,2-Trichlorotrifluoroethane   | 0.07 ppbV     | 43207      | 06/23/2021           |
|                 | <i>PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.</i>              |               |            |                      |
|                 | trans-1,2-Dichloroethene   | < 0.125 ppbV  | 43838      | 06/23/2021           |
|                 | 1,1-Dichloroethane   | < 0.125 ppbV  | 43813      | 06/23/2021           |
|                 | MTBE   | < 0.125 ppbV  | 43372      | 06/23/2021           |
|                 | cis-1,2-Dichloroethene   | < 0.125 ppbV  | 43839      | 06/23/2021           |
|                 | Hexane   | 0.09 ppbV     | 43231      | 06/23/2021           |
|                 | <i>PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.</i>              |               |            |                      |

**Explanation of Terms and Disclaimers**

Test Results meet all requirements of TNI 2009. Non-TNI 2009 accredited analyses noted by ^^. The results included on this report relate only to this specific sample and not to other samples tested from this sampling location.

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| <u>METHOD</u><br><u>EPA TO15</u> | <u>PARAMETER</u>  | <u>RESULT</u> | <u>AQS</u> | <u>ANALYSIS DATE</u> |
|----------------------------------|---|---------------|------------|----------------------|
|                                  | Trichloromethane  | 0.02 ppbV     | 43803      | 06/23/2021           |
|                                  | <i>PARAMETER QUALIFIER: Value less than MDL; A result reported below the MDL should be considered an estimated value.</i>                   |               |            |                      |
|                                  | Ethyl Acetate   | 0.11 ppbV     | 43209      | 06/23/2021           |
|                                  | <i>PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.</i> |               |            |                      |
|                                  | Tetrahydrofuran   | 0.10 ppbV     | 46401      | 06/23/2021           |
|                                  | <i>PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.</i> |               |            |                      |
|                                  | 1,2-Dichloroethane  | < 0.125 ppbV  | 43815      | 06/23/2021           |
|                                  | 1,1,1-Trichloroethane   | < 0.125 ppbV  | 43814      | 06/23/2021           |
|                                  | Benzene   | 1.34 ppbV     | 45201      | 06/23/2021           |
|                                  | Carbon Tetrachloride  | 0.05 ppbV     | 43804      | 06/23/2021           |
|                                  | <i>PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.</i> |               |            |                      |
|                                  | Cyclohexane   | 0.02 ppbV     | 43248      | 06/23/2021           |
|                                  | <i>PARAMETER QUALIFIER: Value less than MDL; A result reported below the MDL should be considered an estimated value.</i>                   |               |            |                      |
|                                  | 1,2-Dichloropropane   | < 0.125 ppbV  | 43829      | 06/23/2021           |
|                                  | Bromodichloromethane  | < 0.125 ppbV  | 43828      | 06/23/2021           |
|                                  | Trichloroethylene   | 0.02 ppbV     | 43824      | 06/23/2021           |
|                                  | <i>PARAMETER QUALIFIER: Value less than MDL; A result reported below the MDL should be considered an estimated value.</i>                   |               |            |                      |
|                                  | Methyl Methacrylate   | < 0.125 ppbV  | 43441      | 06/23/2021           |
|                                  | Heptane   | 0.06 ppbV     | 43232      | 06/23/2021           |
|                                  | <i>PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.</i> |               |            |                      |
|                                  | cis-1,3-Dichloropropene   | < 0.125 ppbV  | 43831      | 06/23/2021           |
|                                  | trans-1,3-Dichloro-1-propene  | < 0.125 ppbV  | 43830      | 06/23/2021           |
|                                  | 1,1,2-Trichloroethane   | < 0.125 ppbV  | 43820      | 06/23/2021           |
|                                  | Toluene   | 0.42 ppbV     | 45202      | 06/23/2021           |
|                                  | Dibromochloromethane  | < 0.125 ppbV  | 43832      | 06/23/2021           |
|                                  | 1,2-Dibromoethane   | < 0.125 ppbV  | 43843      | 06/23/2021           |
|                                  | Tetrachloroethylene   | 0.02 ppbV     | 43817      | 06/23/2021           |
|                                  | <i>PARAMETER QUALIFIER: Value less than MDL; A result reported below the MDL should be considered an estimated value.</i>                   |               |            |                      |
|                                  | Chlorobenzene   | < 0.125 ppbV  | 45801      | 06/23/2021           |
|                                  | Ethylbenzene  | 0.09 ppbV     | 45203      | 06/23/2021           |
|                                  | <i>PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.</i> |               |            |                      |
|                                  | m,p-Xylenes   | 0.15 ppbV     | 45109      | 06/23/2021           |

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|-----------------|---|---------------|------------|----------------------|
| <u>EPA TO15</u> |   |               |            |                      |
|                 | Bromoform   | < 0.125 ppbV  | 43806      | 06/23/2021           |
|                 | Styrene   | 0.18 ppbV     | 45220      | 06/23/2021           |
|                 | 1,1,2,2-Tetrachloroethane   | < 0.125 ppbV  | 43818      | 06/23/2021           |
|                 | o-Xylene  | 0.06 ppbV     | 45204      | 06/23/2021           |
|                 | <i>PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.</i> |               |            |                      |
|                 | 4-Ethyltoluene  | 0.20 ppbV     | 45213      | 06/23/2021           |
|                 | 1,3,5-Trimethylbenzene  | 0.02 ppbV     | 45207      | 06/23/2021           |
|                 | <i>PARAMETER QUALIFIER: Value less than MDL; A result reported below the MDL should be considered an estimated value.</i>                   |               |            |                      |
|                 | 1,2,4-Trimethylbenzene  | 0.05 ppbV     | 45208      | 06/23/2021           |
|                 | <i>PARAMETER QUALIFIER: Value less than MDL; A result reported below the MDL should be considered an estimated value.</i>                   |               |            |                      |
|                 | 1,3-Dichlorobenzene   | < 0.125 ppbV  | 45806      | 06/23/2021           |
|                 | 1,4-Dichlorobenzene   | 0.01 ppbV     | 45807      | 06/23/2021           |
|                 | <i>PARAMETER QUALIFIER: Value less than MDL; A result reported below the MDL should be considered an estimated value.</i>                   |               |            |                      |
|                 | 1,2-Dichlorobenzene   | 0.01 ppbV     | 45805      | 06/23/2021           |
|                 | <i>PARAMETER QUALIFIER: Value less than MDL; A result reported below the MDL should be considered an estimated value.</i>                   |               |            |                      |
|                 | 1,2,4-Trichlorobenzene  | < 0.250 ppbV  | 45810      | 06/23/2021           |
|                 | <i>PARAMETER QUALIFIER: CCV recovery was less than the method acceptance limit. Analyte could be biased low.</i>                            |               |            |                      |
|                 | Hexachloro-1,3-Butadiene  | < 0.125 ppbV  | 43844      | 06/23/2021           |

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