

Commonwealth of Virginia  
Division of Consolidated Laboratory Services

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



REPORT OF ANALYSIS

Report Date: 11/05/2021  
DCLS LIMS #: E211005203

Mail To

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

Sample Information

|               |                  |                  |                                 |
|---------------|------------------|------------------|---------------------------------|
| DATE RECEIVED | 10/29/2021 15:41 | PROGRAM CODE     | BR                              |
| SAMPLING DATE | 10/27/2021 22:56 | STATION ID       | BRISTOL LANDFILL                |
| COLLECTED BY  | STACY A. BOWERS  | CONTAINER ID     | S186                            |
| SAMPLE MATRIX | Air              | REGION CODE      | 404                             |
| ORDERED TEST  | TO15             | STATION LOCATION | BRISTOL TN LANDFILL LOCATION #8 |
| REPORT BDL    | Y                | LOCATION         | BRISTOL TN LANDFILL             |
|               |                  | SAMPLE ID        | B102721                         |

Test Results

APPROVED BY: MTATUM, Scientist Senior

DATE APPROVED: 11/05/2021

| <u>METHOD</u>   | <u>PARAMETER</u>                                                                                                                                       | <u>RESULT</u> | <u>AQS</u> | <u>ANALYSIS DATE</u> |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------|----------------------|
| <u>EPA TO15</u> |                                                                                                                                                        |               |            |                      |
|                 | Non-Target Compounds                                                                                                                                   | Found         |            | 11/03/2021           |
|                 | Identified: Propane, Acetaldehyde, Butane, Ethanol, Acetone, Isopropyl Alcohol, Pentane, Dimethyl sulfide, 2-Butanone, alpha Pinene, Decane, Undecane. |               |            |                      |
|                 | Propylene                                                                                                                                              | < 0.125 ppbV  | 43205      | 11/03/2021           |
|                 | Dichlorodifluoromethane                                                                                                                                | 0.66 ppbV     | 43823      | 11/03/2021           |
|                 | Chloromethane                                                                                                                                          | 0.82 ppbV     | 43801      | 11/03/2021           |
|                 | Freon 114                                                                                                                                              | < 0.125 ppbV  | 43208      | 11/03/2021           |
|                 | Vinyl Chloride                                                                                                                                         | < 0.125 ppbV  | 43860      | 11/03/2021           |
|                 | 1,3-Butadiene                                                                                                                                          | < 0.125 ppbV  | 43218      | 11/03/2021           |
|                 | Bromomethane                                                                                                                                           | < 0.125 ppbV  | 43819      | 11/03/2021           |
|                 | Ethyl Chloride                                                                                                                                         | < 0.125 ppbV  | 43812      | 11/03/2021           |
|                 | Acetonitrile                                                                                                                                           | < 0.125 ppbV  | 43702      | 11/03/2021           |
|                 | Acrolein                                                                                                                                               | 0.44 ppbV     | 43505      | 11/03/2021           |
|                 | Freon 11                                                                                                                                               | 0.30 ppbV     | 43811      | 11/03/2021           |
|                 | Acrylonitrile                                                                                                                                          | < 0.125 ppbV  | 43704      | 11/03/2021           |
|                 | 1,1-Dichloroethene                                                                                                                                     | < 0.125 ppbV  | 43826      | 11/03/2021           |
|                 | Methylene Chloride                                                                                                                                     | 0.12 ppbV     | 43802      | 11/03/2021           |
|                 | PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.                   |               |            |                      |
|                 | 1,1,2-Trichlorotrifluoroethane                                                                                                                         | 0.08 ppbV     | 43207      | 11/03/2021           |
|                 | PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.                   |               |            |                      |
|                 | trans-1,2-Dichloroethene                                                                                                                               | < 0.125 ppbV  | 43838      | 11/03/2021           |
|                 | 1,1-Dichloroethane                                                                                                                                     | < 0.125 ppbV  | 43813      | 11/03/2021           |
|                 | MTBE                                                                                                                                                   | < 0.125 ppbV  | 43372      | 11/03/2021           |
|                 | cis-1,2-Dichloroethene                                                                                                                                 | < 0.125 ppbV  | 43839      | 11/03/2021           |
|                 | Hexane                                                                                                                                                 | 0.09 ppbV     | 43231      | 11/03/2021           |
|                 | PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.                   |               |            |                      |
|                 | Trichloromethane                                                                                                                                       | 0.02 ppbV     | 43803      | 11/03/2021           |

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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**Test Results**

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| <u>METHOD</u>   | <u>PARAMETER</u>                                                                                                                            | <u>RESULT</u> | <u>AQS</u> | <u>ANALYSIS DATE</u> |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------|----------------------|
| <u>EPA TO15</u> |                                                                                                                                             |               |            |                      |
|                 | <i>PARAMETER QUALIFIER: Value less than MDL; A result reported below the MDL should be considered an estimated value.</i>                   |               |            |                      |
|                 | Ethyl Acetate                                                                                                                               | < 0.125 ppbV  | 43209      | 11/03/2021           |
|                 | Tetrahydrofuran                                                                                                                             | 0.32 ppbV     | 46401      | 11/03/2021           |
|                 | 1,2-Dichloroethane                                                                                                                          | < 0.125 ppbV  | 43815      | 11/03/2021           |
|                 | 1,1,1-Trichloroethane                                                                                                                       | < 0.125 ppbV  | 43814      | 11/03/2021           |
|                 | Benzene                                                                                                                                     | 2.42 ppbV     | 45201      | 11/03/2021           |
|                 | Carbon Tetrachloride                                                                                                                        | 0.07 ppbV     | 43804      | 11/03/2021           |
|                 | <i>PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.</i> |               |            |                      |
|                 | Cyclohexane                                                                                                                                 | 0.03 ppbV     | 43248      | 11/03/2021           |
|                 | <i>PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.</i> |               |            |                      |
|                 | 1,2-Dichloropropane                                                                                                                         | < 0.125 ppbV  | 43829      | 11/03/2021           |
|                 | Bromodichloromethane                                                                                                                        | < 0.125 ppbV  | 43828      | 11/03/2021           |
|                 | Trichloroethylene                                                                                                                           | < 0.125 ppbV  | 43824      | 11/03/2021           |
|                 | Methyl Methacrylate                                                                                                                         | < 0.125 ppbV  | 43441      | 11/03/2021           |
|                 | Heptane                                                                                                                                     | 0.07 ppbV     | 43232      | 11/03/2021           |
|                 | <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      | 11/03/2021           |
|                 | trans-1,3-Dichloro-1-propene                                                                                                                | < 0.125 ppbV  | 43830      | 11/03/2021           |
|                 | 1,1,2-Trichloroethane                                                                                                                       | < 0.125 ppbV  | 43820      | 11/03/2021           |
|                 | Toluene                                                                                                                                     | 0.47 ppbV     | 45202      | 11/03/2021           |
|                 | Dibromochloromethane                                                                                                                        | < 0.125 ppbV  | 43832      | 11/03/2021           |
|                 | 1,2-Dibromoethane                                                                                                                           | < 0.125 ppbV  | 43843      | 11/03/2021           |
|                 | Tetrachloroethylene                                                                                                                         | < 0.125 ppbV  | 43817      | 11/03/2021           |
|                 | Chlorobenzene                                                                                                                               | < 0.125 ppbV  | 45801      | 11/03/2021           |
|                 | Ethylbenzene                                                                                                                                | 0.23 ppbV     | 45203      | 11/03/2021           |
|                 | m,p-Xylenes                                                                                                                                 | 0.28 ppbV     | 45109      | 11/03/2021           |
|                 | Bromoform                                                                                                                                   | < 0.125 ppbV  | 43806      | 11/03/2021           |
|                 | Styrene                                                                                                                                     | 0.03 ppbV     | 45220      | 11/03/2021           |
|                 | <i>PARAMETER QUALIFIER: Value less than MDL; A result reported below the MDL should be considered an estimated value.</i>                   |               |            |                      |
|                 | 1,1,2,2-Tetrachloroethane                                                                                                                   | < 0.125 ppbV  | 43818      | 11/03/2021           |
|                 | o-Xylene                                                                                                                                    | 0.10 ppbV     | 45204      | 11/03/2021           |
|                 | <i>PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.</i> |               |            |                      |
|                 | 4-Ethyltoluene                                                                                                                              | < 0.125 ppbV  | 45213      | 11/03/2021           |
|                 | 1,3,5-Trimethylbenzene                                                                                                                      | 0.03 ppbV     | 45207      | 11/03/2021           |
|                 | <i>PARAMETER QUALIFIER: Value less than MDL; A result reported below the MDL should be considered an estimated value.</i>                   |               |            |                      |

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NELAC ID: VA010

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| <u>METHOD</u>   | <u>PARAMETER</u>                                                                                                                     | <u>RESULT</u> | <u>AQS</u> | <u>ANALYSIS DATE</u> |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------|------------|----------------------|
| <u>EPA TO15</u> |                                                                                                                                      |               |            |                      |
|                 | 1,2,4-Trimethylbenzene                                                                                                               | 0.09 ppbV     | 45208      | 11/03/2021           |
|                 | PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value. |               |            |                      |
|                 | 1,3-Dichlorobenzene                                                                                                                  | < 0.125 ppbV  | 45806      | 11/03/2021           |
|                 | 1,4-Dichlorobenzene                                                                                                                  | < 0.250 ppbV  | 45807      | 11/03/2021           |
|                 | 1,2-Dichlorobenzene                                                                                                                  | < 0.125 ppbV  | 45805      | 11/03/2021           |
|                 | 1,2,4-Trichlorobenzene                                                                                                               | < 0.250 ppbV  | 45810      | 11/03/2021           |
|                 | Hexachloro-1,3-Butadiene                                                                                                             | < 0.125 ppbV  | 43844      | 11/03/2021           |

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