

ANALYTICAL RESULTS SUMMARY

VOLATILE ORGANICS
GENERAL CHEMISTRY
METALS
SEMI-VOLATILE ORGANICS

PROJECT NAME : NYCDPR BUSH TERMINAL LANDFILL PIERS 1-4

TRC COMPANIES, INC.

1430 Broadway

10th Floor Suite # 1000

New York, NY - 10018

Phone No: 212-221-7822

ORDER ID : K5154

ATTENTION : Jim Peronto



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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORM S-1

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sampl ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
TB-10012019	K5154-01	8260-Low					
FB-10012019	K5154-02	8260-Low	8270D			6020B, 7470A	300.0
MW-106-S	K5154-03	8260-Low	8270D			6020B, 7470A	300.0
MW-106-I	K5154-04	8260-Low	8270D			6020B, 7470A	300.0
MW-106-D	K5154-05	8260-Low	8270D			6020B, 7470A	300.0
MW-107	K5154-06	8260-Low	8270D			6020B, 7470A	300.0
TB-10022019	K5154-09	8260-Low	8270D			6020B, 7470A	300.0
MW-103-S	K5154-10	8260-Low	8270D			6020B, 7470A	300.0
MW-103-I	K5154-11	8260-Low	8270D			6020B, 7470A	300.0
MW-103-D	K5154-14	8260-Low	8270D			6020B, 7470A	300.0
MW-105-S	K5154-15	8260-Low	8270D			6020B, 7470A	300.0
MW-105-I	K5154-16	8260-Low	8270D			6020B, 7470A	300.0
MW-105-D	K5154-17	8260-Low	8270D			6020B, 7470A	300.0
MW-104-I	K5154-18	8260-Low	8270D			6020B, 7470A	300.0
MW-104-D	K5154-19	8260-Low	8270D			6020B, 7470A	300.0
TB-10032019	K5154-20	8260-Low	8270D			6020B, 7470A	300.0
MW-102-S	K5154-21	8260-Low	8270D			6020B, 7470A	300.0
MW-102-I	K5154-22	8260-Low	8270D			6020B, 7470A	300.0
MW-102-D	K5154-23	8260-Low	8270D			6020B, 7470A	300.0
MW-101-S	K5154-24	8260-Low	8270D			6020B, 7470A	300.0
MW-101-I	K5154-25	8260-Low	8270D			6020B, 7470A	300.0
MW-101-D	K5154-26	8260-Low	8270D			6020B, 7470A	300.0

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIa

SAMPLE PREPARATION AND ANALYSIS SUMMARY SEMIVOLATILE (BNA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
K5154-02	Water	10/01/19	10/01/19	10/02/19	10/02/19
K5154-03	Water	10/01/19	10/01/19	10/02/19	10/02/19
K5154-04	Water	10/01/19	10/01/19	10/02/19	10/02/19
K5154-05	Water	10/01/19	10/01/19	10/02/19	10/02/19
K5154-06	Water	10/01/19	10/01/19	10/02/19	10/02/19
K5154-10	Water	10/02/19	10/02/19	10/03/19	10/04/19
K5154-11	Water	10/02/19	10/02/19	10/03/19	10/04/19
K5154-14	Water	10/02/19	10/02/19	10/03/19	10/04/19
K5154-15	Water	10/02/19	10/02/19	10/03/19	10/05/19
K5154-16	Water	10/02/19	10/02/19	10/03/19	10/05/19
K5154-17	Water	10/02/19	10/02/19	10/03/19	10/05/19
K5154-18	Water	10/02/19	10/02/19	10/03/19	10/04/19
K5154-19	Water	10/02/19	10/02/19	10/03/19	10/04/19
K5154-21	Water	10/03/19	10/03/19	10/07/19	10/07/19
K5154-22	Water	10/03/19	10/03/19	10/07/19	10/07/19
K5154-23	Water	10/03/19	10/03/19	10/07/19	10/07/19
K5154-24	Water	10/03/19	10/03/19	10/07/19	10/07/19
K5154-25	Water	10/03/19	10/03/19	10/07/19	10/07/19
K5154-26	Water	10/03/19	10/03/19	10/07/19	10/07/19

* Details For Test : SVOCMS Group1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIb

SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
K5154-01	Water	10/01/19	10/01/19		10/02/19
K5154-02	Water	10/01/19	10/01/19		10/03/19
K5154-03	Water	10/01/19	10/01/19		10/02/19
K5154-04	Water	10/01/19	10/01/19		10/02/19
K5154-05	Water	10/01/19	10/01/19		10/02/19
K5154-06	Water	10/01/19	10/01/19		10/02/19
K5154-09	Water	10/02/19	10/02/19		10/07/19
K5154-10	Water	10/02/19	10/02/19		10/07/19
K5154-11	Water	10/02/19	10/02/19		10/07/19
K5154-14	Water	10/02/19	10/02/19		10/07/19
K5154-15	Water	10/02/19	10/02/19		10/07/19
K5154-16	Water	10/02/19	10/02/19		10/07/19
K5154-17	Water	10/02/19	10/02/19		10/07/19
K5154-18	Water	10/02/19	10/02/19		10/07/19
K5154-19	Water	10/02/19	10/02/19		10/07/19
K5154-20	Water	10/03/19	10/03/19		10/08/19
K5154-21	Water	10/03/19	10/03/19		10/09/19
K5154-22	Water	10/03/19	10/03/19		10/09/19
K5154-23	Water	10/03/19	10/03/19		10/09/19
K5154-24	Water	10/03/19	10/03/19		10/09/19
K5154-25	Water	10/03/19	10/03/19		10/09/19
K5154-26	Water	10/03/19	10/03/19		10/09/19

* Details For Test : VOCMS Group1

SAMPLE PREPARATION AND ANALYSIS SUMMARY MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
K5154-01	Water	8260-Low	5030		
K5154-02	Water	8260-Low	5030		
K5154-03	Water	8260-Low	5030		
K5154-04	Water	8260-Low	5030		
K5154-05	Water	8260-Low	5030		
K5154-06	Water	8260-Low	5030		
K5154-09	Water	8260-Low	5030		
K5154-10	Water	8260-Low	5030		
K5154-11	Water	8260-Low	5030		
K5154-12	Water	8260-Low	5030		
K5154-13	Water	8260-Low	5030		
K5154-14	Water	8260-Low	5030		
K5154-15	Water	8260-Low	5030		
K5154-16	Water	8260-Low	5030		
K5154-17	Water	8260-Low	5030		
K5154-18	Water	8260-Low	5030		
K5154-19	Water	8260-Low	5030		
K5154-20	Water	8260-Low	5030		
K5154-21	Water	8260-Low	5030		
K5154-22	Water	8260-Low	5030		
K5154-23	Water	8260-Low	5030		
K5154-24	Water	8260-Low	5030		
K5154-25	Water	8260-Low	5030		
K5154-26	Water	8260-Low	5030		

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
K5154-02	Water	8270D	NA		
K5154-03	Water	8270D	NA		
K5154-04	Water	8270D	NA		
K5154-05	Water	8270D	NA		
K5154-06	Water	8270D	NA		
K5154-10	Water	8270D	NA		
K5154-11	Water	8270D	NA		
K5154-12	Water	8270D	NA		
K5154-13	Water	8270D	NA		
K5154-14	Water	8270D	NA		
K5154-15	Water	8270D	NA		
K5154-16	Water	8270D	NA		
K5154-17	Water	8270D	NA		
K5154-18	Water	8270D	NA		
K5154-19	Water	8270D	NA		
K5154-21	Water	8270D	NA		
K5154-22	Water	8270D	NA		
K5154-23	Water	8270D	NA		
K5154-24	Water	8270D	NA		
K5154-25	Water	8270D	NA		
K5154-26	Water	8270D	NA		

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IV

SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
K5154-02	Water	Metals ICP-TAL	10/01/19	10/03/19	10/10/19
K5154-03	Water	Metals ICP-TAL	10/01/19	10/03/19	10/10/19
K5154-04	Water	Metals ICP-TAL	10/01/19	10/03/19	10/10/19
K5154-05	Water	Metals ICP-TAL	10/01/19	10/03/19	10/10/19
K5154-06	Water	Metals ICP-TAL	10/01/19	10/03/19	10/10/19
K5154-10	Water	Metals ICP-TAL	10/02/19	10/03/19	10/10/19
K5154-11	Water	Metals ICP-TAL	10/02/19	10/03/19	10/10/19
K5154-14	Water	Metals ICP-TAL	10/02/19	10/03/19	10/10/19
K5154-15	Water	Metals ICP-TAL	10/02/19	10/03/19	10/10/19
K5154-16	Water	Metals ICP-TAL	10/02/19	10/03/19	10/10/19
K5154-17	Water	Metals ICP-TAL	10/02/19	10/03/19	10/10/19
K5154-18	Water	Metals ICP-TAL	10/02/19	10/03/19	10/10/19
K5154-19	Water	Metals ICP-TAL	10/02/19	10/03/19	10/10/19
K5154-21	Water	Metals ICP-TAL	10/03/19	10/11/19	10/14/19
K5154-22	Water	Metals ICP-TAL	10/03/19	10/11/19	10/14/19
K5154-23	Water	Metals ICP-TAL	10/03/19	10/11/19	10/14/19
K5154-24	Water	Metals ICP-TAL	10/03/19	10/11/19	10/14/19
K5154-25	Water	Metals ICP-TAL	10/03/19	10/11/19	10/14/19
K5154-26	Water	Metals ICP-TAL	10/03/19	10/11/19	10/14/19

* Details For Test : Metals ICP-TAL

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IV

SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
K5154-02	Water	Mercury	10/01/19	10/02/19	10/03/19
K5154-03	Water	Mercury	10/01/19	10/02/19	10/03/19
K5154-04	Water	Mercury	10/01/19	10/02/19	10/03/19
K5154-05	Water	Mercury	10/01/19	10/02/19	10/03/19
K5154-06	Water	Mercury	10/01/19	10/02/19	10/03/19
K5154-10	Water	Mercury	10/02/19	10/02/19	10/03/19
K5154-11	Water	Mercury	10/02/19	10/02/19	10/03/19
K5154-14	Water	Mercury	10/02/19	10/02/19	10/03/19
K5154-15	Water	Mercury	10/02/19	10/02/19	10/03/19
K5154-16	Water	Mercury	10/02/19	10/02/19	10/03/19
K5154-17	Water	Mercury	10/02/19	10/02/19	10/03/19
K5154-18	Water	Mercury	10/02/19	10/02/19	10/03/19
K5154-19	Water	Mercury	10/02/19	10/02/19	10/03/19
K5154-21	Water	Mercury	10/03/19	10/07/19	10/07/19
K5154-22	Water	Mercury	10/03/19	10/07/19	10/07/19
K5154-23	Water	Mercury	10/03/19	10/07/19	10/07/19
K5154-24	Water	Mercury	10/03/19	10/07/19	10/07/19
K5154-25	Water	Mercury	10/03/19	10/07/19	10/07/19
K5154-26	Water	Mercury	10/03/19	10/07/19	10/07/19

* Details For Test : Mercury

Cover Page

Order ID : K5154

Project ID : NYCDPR Bush Terminal LandFill Piers 1-4

Client : TRC Companies, Inc.

Lab Sample Number

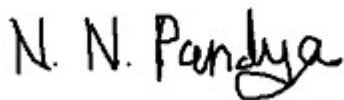
K5154-01
K5154-02
K5154-03
K5154-04
K5154-05
K5154-06
K5154-09
K5154-10
K5154-11
K5154-12
K5154-13
K5154-14
K5154-15
K5154-16
K5154-17
K5154-18
K5154-19
K5154-20
K5154-21
K5154-22
K5154-23
K5154-24
K5154-25
K5154-26

Client Sample Number

TB-10012019
FB-10012019
MW-106S
MW-106I
MW-106D
MW-107
TB-10022019
MW-103S
MW-103I
K5154-11MS
K5154-11MSD
MW-103D
MW-105S
MW-105I
MW-105D
MW-104I
MW-104D
TB-10032019
MW-102S
MW-102I
MW-102D
MW-101S
MW-101I
MW-101D

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature :



APPROVED

By Nimisha Pandya, QA QC Supervisor at 11:48 am, Nov 13, 2019

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

TRC Companies, Inc.

Project Name: NYCDPR Bush Terminal LandFill Piers 1-4

Project # N/A

Chemtech Project # K5154

Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:

6 Water samples were received on 10/01/2019.

11 Water samples were received on 10/02/2019.

7 Water samples were received on 10/03/2019.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Anions Group1, Mercury, Metals ICP-TAL, METALS-TAL, SVOCMS Group1 and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI The analysis of VOCMS Group1 was based on method 8260-Low.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds.

The MSD recoveries met the acceptable requirements.

The RPD met criteria.

The Blank Spike met requirements for all samples.

The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 15% in the Initial Calibration method (82X100819W.M) for Chloroethane, Bromochloromethane, t-1,3-Dichloropropene, Dibromochloromethane, Bromoform these compounds are passing on Linear Regression.

The Continuous Calibration File ID VX012829.D met the requirements except for 1,2,4-Trichlorobenzene and Bromoform. The associate samples have no positive hit for these compounds; therefore no corrective action was required.

The Tuning criteria met requirements.

E. Additional Comments:

Sample with Client ID: MW-104-D & MW-106-D PH is more than 2.

This data package has been revised due to removal of TICS.

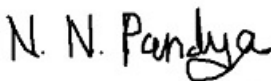
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

**APPROVED***By Nimisha Pandya, QA QC Supervisor at 11:48 am, Nov 13, 2019*

CASE NARRATIVE

TRC Companies, Inc.

Project Name: NYCDPR Bush Terminal LandFill Piers 1-4

Project # N/A

Chemtech Project # K5154

Test Name: SVOCMS Group1

A. Number of Samples and Date of Receipt:

6 Water samples were received on 10/01/2019.

11 Water samples were received on 10/02/2019.

7 Water samples were received on 10/03/2019.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Anions Group1, Mercury, Metals ICP-TAL, METALS-TAL, SVOCMS Group1 and VOCMS Group1. This data package contains results for SVOCMS Group1.

C. Analytical Techniques:

The samples were analyzed on instrument BNA_G using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GG. The samples were analyzed on instrument BNA_F using GC Column RTX-5 which is 20 meters, 0.18 mm ID, 0.36 um df. The analysis of SVOCMS Group1 was based on method 8270D and extraction was done based on method 3510.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {K5154-12MS} with File ID: BG043039.D recoveries met the requirements for all compounds except for 1,2,4,5-Tetrachlorobenzene[74%] and 2,3,4,6-Tetrachlorophenol[85%] .

The MSD {K5154-13MSD} with File ID: BG043040.D recoveries met the acceptable requirements except for 1,2,4,5-Tetrachlorobenzene[72%] and 2,3,4,6-Tetrachlorophenol[80%] .

The MS/MSD recoveries are failing due to matrix interference.

The RPD met criteria.

The Blank Spike for {PB123559BS} with File ID: BG042987.D met requirements for all samples except for 3+4-Methylphenols[92%] .

The Blank Spike for {PB123604BS} with File ID: BG043033.D met requirements for all samples except for 3+4-Methylphenols[92%] .

The Blank Spike Duplicate for {PB123559BSD} with File ID: BG042988.D met requirements for all samples except for 3+4-Methylphenols[95%] .

The Blank analysis indicated presence of Dimethylphthalate[5.4 ug/L] FileID:BG043068.D{PB123604BL} due to possible lab contamination.

The %RSD is greater than 20% in the Initial Calibration (Method 8270-BP100119.M) for Hexachlorocyclopentadiene this compound is passing on Linear regression.

The Continuous Calibration File ID BG043065.D met the requirements except for Caprolactam.

The Continuous Calibration File ID BG043083.D met the requirements except for 2,4-Dinitrophenol.

The Continuous Calibration File ID BP000508.D met the requirements except for 2,4-Dinitrophenol.

The Tuning criteria met requirements.

E. Additional Comments:

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

All above Continuous Calibration failing for few compounds has no positive hit for samples; therefore, no corrective action was required.

This data package has been revised due to removal of TICS.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

N. N. Pandya

APPROVED

By Nimisha Pandya, QA QC Supervisor at 11:49 am, Nov 13, 2019

CASE NARRATIVE

TRC Companies, Inc.

Project Name: NYCDPR Bush Terminal LandFill Piers 1-4

Project # N/A

Chemtech Project # K5154

Test Name: Metals ICP-TAL,Mercury

A. Number of Samples and Date of Receipt:

6 Water samples were received on 10/01/2019.

11 Water samples were received on 10/02/2019.

7 Water samples were received on 10/03/2019.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Anions Group1, Mercury, Metals ICP-TAL, METALS-TAL, SVOCMS Group1 and VOCMS Group1. This data package contains results for Metals ICP-TAL,Mercury.

C. Analytical Techniques:

The analysis of Metals ICP-TAL was based on method 6020B, digestion based on method 3010 (waters). The analysis and digestion of Mercury was based on method 7470A.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

Sample MW-106I was diluted due to high concentrations for Sodium &

Sample MW-106D was diluted due to high concentrations for Sodium &

Sample MW-107 was diluted due to high concentrations for Sodium &

Sample MW-103S was diluted due to high concentrations for Sodium &

Sample MW-104D was diluted due to high concentrations for

Lead,Magnesium,Manganese,Sodium,Thallium.

The Blank Spike met requirements for all samples.

The Duplicate (MW-103IDUP) analysis met criteria for all samples except for Lead. The

Matrix Spike analysis met criteria for all samples.

The Matrix Spike Duplicate (MW-103IMSD) analysis met criteria for all samples except for Silver.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

The Serial Dilution met the acceptable requirements.

E. Additional Comments:

Internal Standard 45SC(2),89Y(2) are failing for Samples K5157-02Dup,K5157-03,K5157-04 so these samples are reported from 5X dilution.

Internal Standard 209Bi(1) is failing for Sample K5154-19 so these sample are reported from 5X dilution.

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

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Signature_____

N. N. Pandya

APPROVED

By Nimisha Pandya, QA QC Supervisor at 11:49 am, Nov 13, 2019

CASE NARRATIVE

TRC Companies, Inc.

Project Name: NYCDPR Bush Terminal LandFill Piers 1-4

Project # N/A

Chemtech Project # K5154

Test Name: Anions Group1

A. Number of Samples and Date of Receipt:

6 Water samples were received on 10/01/2019.

11 Water samples were received on 10/02/2019.

7 Water samples were received on 10/03/2019.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Anions Group1, Mercury, Metals ICP-TAL, METALS-TAL, SVOCMS Group1 and VOCMS Group1. This data package contains results for Anions Group1.

C. Analytical Techniques:

The analysis of Anions Group1 was based on method 300.0.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

Sample MW-106S was diluted due to high concentrations for Chloride & Sample MW-106I was diluted due to high concentrations for Chloride & Sample MW-106D was diluted due to high concentrations for Chloride & Sample MW-107 was diluted due to high concentrations for Chloride & Sample MW-103S was diluted due to high concentrations for Chloride & Sample MW-103I was diluted due to high concentrations for Chloride & Sample MW-103D was diluted due to high concentrations for Chloride & Sample MW-105S was diluted due to high concentrations for Chloride & Sample MW-105I was diluted due to high concentrations for Chloride & Sample MW-105D was diluted due to high concentrations for Chloride & Sample MW-104I was diluted due to high concentrations for Chloride & Sample MW-104D was diluted due to high concentrations for Chloride & Sample MW-102I was diluted due to high concentrations for Chloride & Sample MW-102D was diluted due to high concentrations for Chloride & Sample MW-101S was diluted due to high concentrations for Chloride & Sample MW-101I was diluted due to high concentrations for Chloride & Sample MW-101D was diluted due to high concentrations for Chloride.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike (MW-107MS) analysis met criteria for all samples except for Chloride.

The Matrix Spike (MW-103IMS) analysis met criteria for all samples except for Chloride. The Matrix Spike (MW-101DMS) analysis met criteria for all samples except for Chloride. The Matrix Spike (20190770-SS-COMPOSITE-10MS) analysis met criteria for all samples except for Chloride.

The Matrix Spike (MW-107MSD) analysis met criteria for all samples except for Chloride. The Matrix Spike (MW-103IMSD) analysis met criteria for all samples except for Chloride. The Matrix Spike (MW-101DMSD) analysis met criteria for all samples except for Chloride. The Matrix Spike (20190770-SS-COMPOSITE-10MSD) analysis met criteria for all samples except for Chloride.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_

N. N. Pandya

APPROVED

By Nimisha Pandya, QA QC Supervisor at 11:49 am, Nov 13, 2019

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following “ Results Qualifiers” are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers “P” for ICP instrument “PM” for ICP when Microwave Digestion is used “CV” for Manual Cold Vapor AA “AV” for automated Cold Vapor AA “CA” for MIDI-Distillation Spectrophotometric “AS” for Semi -Automated Spectrophotometric “C” for Manual Spectrophotometric “T” for Titrimetric “NR” for analyte not required to be analyzed
OR	Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following "Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: K5154

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

1st Level QA Review Signature: APARNA SONI

Date: 11/13/2019

2nd Level QA Review Signature:

N. N. Pandya

APPROVED

By Nimisha Pandya, QA QC Supervisor at 11:50 am, Nov 13, 2019



284 Sheffield Street, Mountainside, New Jersey - 07092

Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID: K5154	OrderDate: 10/1/2019 2:37:56 PM
Client: TRC Companies, Inc.	Project: NYCDPR Bush Terminal LandFill Piers 1-4
Contact: Jim Peronto	Location: M12

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
K5154-01	TB-10012019	Water	VOCMS Group1	8260-Low	10/01/19		10/02/19	10/01/19
K5154-02	FB-10012019	Water	VOCMS Group1	8260-Low	10/01/19		10/03/19	10/01/19
K5154-03	MW-106S	Water	VOCMS Group1	8260-Low	10/01/19		10/02/19	10/01/19
K5154-04	MW-106I	Water	VOCMS Group1	8260-Low	10/01/19		10/02/19	10/01/19
K5154-05	MW-106D	Water	VOCMS Group1	8260-Low	10/01/19		10/02/19	10/01/19
K5154-06	MW-107	Water	VOCMS Group1	8260-Low	10/01/19		10/02/19	10/01/19
K5154-09	TB-10022019	Water	VOCMS Group1	8260-Low	10/02/19		10/07/19	10/02/19
K5154-10	MW-103S	Water	VOCMS Group1	8260-Low	10/02/19		10/07/19	10/02/19
K5154-11	MW-103I	Water	VOCMS Group1	8260-Low	10/02/19		10/07/19	10/02/19
K5154-14	MW-103D	Water	VOCMS Group1	8260-Low	10/02/19		10/07/19	10/02/19
K5154-15	MW-105S	Water	VOCMS Group1	8260-Low	10/02/19		10/07/19	10/02/19
K5154-16	MW-105I	Water	VOCMS Group1	8260-Low	10/02/19		10/07/19	10/02/19

LAB CHRONICLE

K5154-17	MW-105D	Water	VOCMS Group1	8260-Low	10/02/19	10/07/19	10/02/19
K5154-18	MW-104I	Water	VOCMS Group1	8260-Low	10/02/19	10/07/19	10/02/19
K5154-19	MW-104D	Water	VOCMS Group1	8260-Low	10/02/19	10/07/19	10/02/19
K5154-20	TB-10032019	Water	VOCMS Group1	8260-Low	10/03/19	10/08/19	10/03/19
K5154-21	MW-102S	Water	VOCMS Group1	8260-Low	10/03/19	10/09/19	10/03/19
K5154-22	MW-102I	Water	VOCMS Group1	8260-Low	10/03/19	10/09/19	10/03/19
K5154-23	MW-102D	Water	VOCMS Group1	8260-Low	10/03/19	10/09/19	10/03/19
K5154-24	MW-101S	Water	VOCMS Group1	8260-Low	10/03/19	10/09/19	10/03/19
K5154-25	MW-101I	Water	VOCMS Group1	8260-Low	10/03/19	10/09/19	10/03/19
K5154-26	MW-101D	Water	VOCMS Group1	8260-Low	10/03/19	10/09/19	10/03/19

Hit Summary Sheet SW-846

SDG No.: K5154

Client: TRC Companies, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	FB-10012019							
K5154-02	FB-10012019	Water	Acetone	5.40		0.90	5.00	ug/L
K5154-02	FB-10012019	Water	Methylene Chloride	0.86	J	0.33	1.00	ug/L
			Total Voc :	6.26				
			Total Concentration:	6.26				
Client ID:	MW-106S							
K5154-03	MW-106S	Water	Acetone	4.10	J	0.90	5.00	ug/L
			Total Voc :	4.1				
			Total Concentration:	4.1				
Client ID:	MW-106I							
K5154-04	MW-106I	Water	Acetone	3.60	J	0.90	5.00	ug/L
K5154-04	MW-106I	Water	cis-1,2-Dichloroethene	1.00		0.30	1.00	ug/L
			Total Voc :	4.6				
			Total Concentration:	4.6				
Client ID:	MW-106D							
K5154-05	MW-106D	Water	Acetone	2.60	J	0.90	5.00	ug/L
			Total Voc :	2.6				
			Total Concentration:	2.6				
Client ID:	MW-107							
K5154-06	MW-107	Water	Acetone	1.70	J	0.90	5.00	ug/L
			Total Voc :	1.7				
			Total Concentration:	1.7				
Client ID:	MW-103S							
K5154-10	MW-103S	Water	Acetone	9.60		0.90	5.00	ug/L
K5154-10	MW-103S	Water	Benzene	1.80		0.10	1.00	ug/L
K5154-10	MW-103S	Water	Toluene	0.41	J	0.12	1.00	ug/L
K5154-10	MW-103S	Water	Isopropylbenzene	0.31	J	0.13	1.00	ug/L
			Total Voc :	12.12				
			Total Concentration:	12.12				
Client ID:	MW-103I							
K5154-11	MW-103I	Water	Vinyl Chloride	2.90		0.16	1.00	ug/L
K5154-11	MW-103I	Water	Acetone	3.00	J	0.90	5.00	ug/L
K5154-11	MW-103I	Water	1,1-Dichloroethane	5.80		0.17	1.00	ug/L
K5154-11	MW-103I	Water	cis-1,2-Dichloroethene	3.10		0.30	1.00	ug/L
			Total Voc :	14.8				
			Total Concentration:	14.8				
Client ID:	MW-103D							
K5154-14	MW-103D	Water	Acetone	4.50	J	0.90	5.00	ug/L
			Total Voc :	4.5				
			Total Concentration:	4.5				
Client ID:	MW-105S							

Hit Summary Sheet SW-846

SDG No.: K5154
Client: TRC Companies, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
K5154-15	MW-105S	Water	Acetone	5.50		0.90	5.00	ug/L
K5154-15	MW-105S	Water	Chlorobenzene	8.70		0.080	1.00	ug/L
			Total Voc :	14.2				
			Total Concentration:	14.2				
Client ID:	MW-105I							
K5154-16	MW-105I	Water	Acetone	3.70	J	0.90	5.00	ug/L
			Total Voc :	3.7				
			Total Concentration:	3.7				
Client ID:	MW-105D							
K5154-17	MW-105D	Water	Acetone	2.80	J	0.90	5.00	ug/L
			Total Voc :	2.8				
			Total Concentration:	2.8				
Client ID:	MW-104I							
K5154-18	MW-104I	Water	Acetone	4.40	J	0.90	5.00	ug/L
K5154-18	MW-104I	Water	cis-1,2-Dichloroethene	1.10		0.30	1.00	ug/L
			Total Voc :	5.5				
			Total Concentration:	5.5				
Client ID:	MW-104D							
K5154-19	MW-104D	Water	Acetone	2.50	J	0.90	5.00	ug/L
			Total Voc :	2.5				
			Total Concentration:	2.5				
Client ID:	MW-102S							
K5154-21	MW-102S	Water	Acetone	4.90	J	0.90	5.00	ug/L
K5154-21	MW-102S	Water	Tetrachloroethene	2.10		0.15	1.00	ug/L
			Total Voc :	7				
			Total Concentration:	7				
Client ID:	MW-102I							
K5154-22	MW-102I	Water	Acetone	2.70	J	0.90	5.00	ug/L
K5154-22	MW-102I	Water	cis-1,2-Dichloroethene	1.00		0.30	1.00	ug/L
K5154-22	MW-102I	Water	Trichloroethene	5.40		0.27	1.00	ug/L
K5154-22	MW-102I	Water	Tetrachloroethene	11.50		0.15	1.00	ug/L
			Total Voc :	20.6				
			Total Concentration:	20.6				
Client ID:	MW-102D							
K5154-23	MW-102D	Water	Acetone	4.30	J	0.90	5.00	ug/L
			Total Voc :	4.3				
			Total Concentration:	4.3				
Client ID:	MW-101S							
K5154-24	MW-101S	Water	1,1-Dichloroethene	3.80		0.18	1.00	ug/L
K5154-24	MW-101S	Water	Acetone	3.70	J	0.90	5.00	ug/L
K5154-24	MW-101S	Water	1,1-Dichloroethane	3.30		0.17	1.00	ug/L

Hit Summary Sheet SW-846

SDG No.: K5154
Client: TRC Companies, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
K5154-24	MW-101S	Water	cis-1,2-Dichloroethene	4.20		0.30	1.00	ug/L
K5154-24	MW-101S	Water	Chloroform	1.40		0.14	1.00	ug/L
K5154-24	MW-101S	Water	1,1,1-Trichloroethane	0.87	J	0.12	1.00	ug/L
K5154-24	MW-101S	Water	Trichloroethene	17.30		0.27	1.00	ug/L
K5154-24	MW-101S	Water	Tetrachloroethene	11.80		0.15	1.00	ug/L
Total Voc :				46.37				
Total Concentration:				46.37				
Client ID:	MW-101I							
K5154-25	MW-101I	Water	1,1-Dichloroethene	5.90		0.18	1.00	ug/L
K5154-25	MW-101I	Water	Acetone	4.30	J	0.90	5.00	ug/L
K5154-25	MW-101I	Water	1,1-Dichloroethane	4.50		0.17	1.00	ug/L
K5154-25	MW-101I	Water	cis-1,2-Dichloroethene	4.50		0.30	1.00	ug/L
K5154-25	MW-101I	Water	Chloroform	1.40		0.14	1.00	ug/L
K5154-25	MW-101I	Water	1,1,1-Trichloroethane	0.97	J	0.12	1.00	ug/L
K5154-25	MW-101I	Water	Trichloroethene	15.80		0.27	1.00	ug/L
K5154-25	MW-101I	Water	Tetrachloroethene	37.30		0.15	1.00	ug/L
Total Voc :				74.67				
Total Concentration:				74.67				
Client ID:	MW-101D							
K5154-26	MW-101D	Water	1,1-Dichloroethene	9.20		0.18	1.00	ug/L
K5154-26	MW-101D	Water	Acetone	2.80	J	0.90	5.00	ug/L
K5154-26	MW-101D	Water	1,1-Dichloroethane	10.60		0.17	1.00	ug/L
K5154-26	MW-101D	Water	cis-1,2-Dichloroethene	9.40		0.30	1.00	ug/L
K5154-26	MW-101D	Water	Chloroform	0.92	J	0.14	1.00	ug/L
K5154-26	MW-101D	Water	1,1,1-Trichloroethane	3.70		0.12	1.00	ug/L
K5154-26	MW-101D	Water	Trichloroethene	84.00		0.27	1.00	ug/L
K5154-26	MW-101D	Water	Tetrachloroethene	13.50		0.15	1.00	ug/L
Total Voc :				134.12				
Total Concentration:				134.12				

SAMPLE DATA

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	TB-10012019	SDG No.:	K5154
Lab Sample ID:	K5154-01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012753.D	1		10/02/19 12:06	VX100219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	5.00	U	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	TB-10012019	SDG No.:	K5154
Lab Sample ID:	K5154-01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012753.D	1		10/02/19 12:06	VX100219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.8		61 - 141	98%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		69 - 133	102%	SPK: 50
2037-26-5	Toluene-d8	51.6		65 - 126	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.3		58 - 135	83%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	162000	5.65			
540-36-3	1,4-Difluorobenzene	283000	6.85			
3114-55-4	Chlorobenzene-d5	234000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	83500	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	TB-10012019	SDG No.:	K5154
Lab Sample ID:	K5154-01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012753.D	1		10/02/19 12:06	VX100219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	FB-10012019	SDG No.:	K5154
Lab Sample ID:	K5154-02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012780.D	1		10/03/19 13:53	VX100319

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	5.40		0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	0.86	J	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	FB-10012019	SDG No.:	K5154
Lab Sample ID:	K5154-02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012780.D	1		10/03/19 13:53	VX100319

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.0		61 - 141	94%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		69 - 133	102%	SPK: 50
2037-26-5	Toluene-d8	51.4		65 - 126	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.4		58 - 135	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	181000	5.65			
540-36-3	1,4-Difluorobenzene	310000	6.85			
3114-55-4	Chlorobenzene-d5	266000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	102000	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	FB-10012019	SDG No.:	K5154
Lab Sample ID:	K5154-02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012780.D	1		10/03/19 13:53	VX100319

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-106S	SDG No.:	K5154
Lab Sample ID:	K5154-03	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012762.D	1		10/02/19 15:39	VX100219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	4.10	J	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-106S	SDG No.:	K5154
Lab Sample ID:	K5154-03	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012762.D	1		10/02/19 15:39	VX100219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.7		61 - 141	97%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		69 - 133	103%	SPK: 50
2037-26-5	Toluene-d8	51.3		65 - 126	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.1		58 - 135	84%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	170000	5.65			
540-36-3	1,4-Difluorobenzene	295000	6.85			
3114-55-4	Chlorobenzene-d5	248000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	88200	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-106S	SDG No.:	K5154
Lab Sample ID:	K5154-03	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012762.D	1		10/02/19 15:39	VX100219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-106I	SDG No.:	K5154
Lab Sample ID:	K5154-04	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012763.D	1		10/02/19 16:02	VX100219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	3.60	J	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00		0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-106I	SDG No.:	K5154
Lab Sample ID:	K5154-04	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012763.D	1		10/02/19 16:02	VX100219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.4		61 - 141	97%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		69 - 133	102%	SPK: 50
2037-26-5	Toluene-d8	51.5		65 - 126	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.1		58 - 135	82%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	173000	5.65			
540-36-3	1,4-Difluorobenzene	299000	6.85			
3114-55-4	Chlorobenzene-d5	247000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	88900	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-1061	SDG No.:	K5154
Lab Sample ID:	K5154-04	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012763.D	1		10/02/19 16:02	VX100219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-106D	SDG No.:	K5154
Lab Sample ID:	K5154-05	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012767.D	1		10/02/19 18:23	VX100219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	2.60	J	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-106D	SDG No.:	K5154
Lab Sample ID:	K5154-05	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012767.D	1		10/02/19 18:23	VX100219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.1		61 - 141	96%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		69 - 133	102%	SPK: 50
2037-26-5	Toluene-d8	51.6		65 - 126	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.6		58 - 135	87%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	177000	5.65			
540-36-3	1,4-Difluorobenzene	306000	6.85			
3114-55-4	Chlorobenzene-d5	265000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	104000	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-106D	SDG No.:	K5154
Lab Sample ID:	K5154-05	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012767.D	1		10/02/19 18:23	VX100219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-107	SDG No.:	K5154
Lab Sample ID:	K5154-06	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012764.D	1		10/02/19 16:49	VX100219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	1.70	J	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-107	SDG No.:	K5154
Lab Sample ID:	K5154-06	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012764.D	1		10/02/19 16:49	VX100219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.5		61 - 141	95%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		69 - 133	103%	SPK: 50
2037-26-5	Toluene-d8	51.3		65 - 126	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.5		58 - 135	85%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	168000	5.65			
540-36-3	1,4-Difluorobenzene	286000	6.85			
3114-55-4	Chlorobenzene-d5	244000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	88800	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-107	SDG No.:	K5154
Lab Sample ID:	K5154-06	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012764.D	1		10/02/19 16:49	VX100219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	TB-10022019	SDG No.:	K5154
Lab Sample ID:	K5154-09	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012839.D	1		10/07/19 15:36	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	5.00	U	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	TB-10022019	SDG No.:	K5154
Lab Sample ID:	K5154-09	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012839.D	1		10/07/19 15:36	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.8		61 - 141	90%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		69 - 133	99%	SPK: 50
2037-26-5	Toluene-d8	51.1		65 - 126	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.4		58 - 135	85%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	187000	5.65			
540-36-3	1,4-Difluorobenzene	315000	6.85			
3114-55-4	Chlorobenzene-d5	257000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	96800	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	TB-10022019	SDG No.:	K5154
Lab Sample ID:	K5154-09	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012839.D	1		10/07/19 15:36	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103S	SDG No.:	K5154
Lab Sample ID:	K5154-10	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012838.D	1		10/07/19 15:13	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	9.60		0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.80		0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	0.41	J	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103S	SDG No.:	K5154
Lab Sample ID:	K5154-10	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012838.D	1		10/07/19 15:13	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	0.31	J	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.4		61 - 141	91%	SPK: 50
1868-53-7	Dibromofluoromethane	48.9		69 - 133	98%	SPK: 50
2037-26-5	Toluene-d8	51.1		65 - 126	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.7		58 - 135	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	178000	5.65			
540-36-3	1,4-Difluorobenzene	303000	6.86			
3114-55-4	Chlorobenzene-d5	255000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	100000	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103S	SDG No.:	K5154
Lab Sample ID:	K5154-10	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012838.D	1		10/07/19 15:13	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-1031	SDG No.:	K5154
Lab Sample ID:	K5154-11	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012840.D	1		10/07/19 16:00	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	2.90		0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	3.00	J	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	5.80		0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	3.10		0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-1031	SDG No.:	K5154
Lab Sample ID:	K5154-11	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012840.D	1		10/07/19 16:00	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.0		61 - 141	90%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		69 - 133	99%	SPK: 50
2037-26-5	Toluene-d8	50.6		65 - 126	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.2		58 - 135	86%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	180000	5.65			
540-36-3	1,4-Difluorobenzene	304000	6.85			
3114-55-4	Chlorobenzene-d5	253000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	92400	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103I	SDG No.:	K5154
Lab Sample ID:	K5154-11	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012840.D	1		10/07/19 16:00	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103D	SDG No.:	K5154
Lab Sample ID:	K5154-14	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012841.D	1		10/07/19 16:23	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	4.50	J	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103D	SDG No.:	K5154
Lab Sample ID:	K5154-14	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012841.D	1		10/07/19 16:23	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.5		61 - 141	89%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		69 - 133	101%	SPK: 50
2037-26-5	Toluene-d8	51.5		65 - 126	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.5		58 - 135	85%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	185000	5.65			
540-36-3	1,4-Difluorobenzene	308000	6.86			
3114-55-4	Chlorobenzene-d5	259000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	92100	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103D	SDG No.:	K5154
Lab Sample ID:	K5154-14	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012841.D	1		10/07/19 16:23	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-105S	SDG No.:	K5154
Lab Sample ID:	K5154-15	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012842.D	1		10/07/19 16:47	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	5.50		0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-105S	SDG No.:	K5154
Lab Sample ID:	K5154-15	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012842.D	1		10/07/19 16:47	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.15	1.00	ug/L
108-90-7	Chlorobenzene	8.70		0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.5		61 - 141	91%	SPK: 50
1868-53-7	Dibromofluoromethane	51.5		69 - 133	103%	SPK: 50
2037-26-5	Toluene-d8	51.6		65 - 126	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.9		58 - 135	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	179000	5.65			
540-36-3	1,4-Difluorobenzene	303000	6.85			
3114-55-4	Chlorobenzene-d5	261000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	102000	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-105S	SDG No.:	K5154
Lab Sample ID:	K5154-15	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012842.D	1		10/07/19 16:47	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-1051	SDG No.:	K5154
Lab Sample ID:	K5154-16	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012843.D	1		10/07/19 17:10	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	3.70	J	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-1051	SDG No.:	K5154
Lab Sample ID:	K5154-16	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012843.D	1		10/07/19 17:10	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.5		61 - 141	89%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		69 - 133	99%	SPK: 50
2037-26-5	Toluene-d8	51.0		65 - 126	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.6		58 - 135	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	190000	5.65			
540-36-3	1,4-Difluorobenzene	320000	6.85			
3114-55-4	Chlorobenzene-d5	270000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	107000	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-1051	SDG No.:	K5154
Lab Sample ID:	K5154-16	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012843.D	1		10/07/19 17:10	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-105D	SDG No.:	K5154
Lab Sample ID:	K5154-17	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012844.D	1		10/07/19 17:33	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	2.80	J	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-105D	SDG No.:	K5154
Lab Sample ID:	K5154-17	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012844.D	1		10/07/19 17:33	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.7		61 - 141	91%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		69 - 133	101%	SPK: 50
2037-26-5	Toluene-d8	51.2		65 - 126	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.6		58 - 135	87%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	179000	5.65			
540-36-3	1,4-Difluorobenzene	305000	6.85			
3114-55-4	Chlorobenzene-d5	256000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	100000	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-105D	SDG No.:	K5154
Lab Sample ID:	K5154-17	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012844.D	1		10/07/19 17:33	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-104I	SDG No.:	K5154
Lab Sample ID:	K5154-18	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012845.D	1		10/07/19 17:57	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	4.40	J	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.10		0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-104I	SDG No.:	K5154
Lab Sample ID:	K5154-18	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012845.D	1		10/07/19 17:57	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.2		61 - 141	90%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		69 - 133	101%	SPK: 50
2037-26-5	Toluene-d8	51.5		65 - 126	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.8		58 - 135	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	181000	5.65			
540-36-3	1,4-Difluorobenzene	309000	6.85			
3114-55-4	Chlorobenzene-d5	267000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	100000	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-104I	SDG No.:	K5154
Lab Sample ID:	K5154-18	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012845.D	1		10/07/19 17:57	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-104D	SDG No.:	K5154
Lab Sample ID:	K5154-19	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012846.D	1		10/07/19 18:20	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	2.50	J	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-104D	SDG No.:	K5154
Lab Sample ID:	K5154-19	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012846.D	1		10/07/19 18:20	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.4		61 - 141	91%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		69 - 133	101%	SPK: 50
2037-26-5	Toluene-d8	51.2		65 - 126	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		58 - 135	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	185000	5.65			
540-36-3	1,4-Difluorobenzene	314000	6.85			
3114-55-4	Chlorobenzene-d5	269000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	111000	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-104D	SDG No.:	K5154
Lab Sample ID:	K5154-19	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012846.D	1		10/07/19 18:20	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	TB-10032019	SDG No.:	K5154
Lab Sample ID:	K5154-20	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012907.D	1		10/08/19 23:16	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	5.00	U	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	TB-10032019	SDG No.:	K5154
Lab Sample ID:	K5154-20	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012907.D	1		10/08/19 23:16	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.8		61 - 141	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		69 - 133	103%	SPK: 50
2037-26-5	Toluene-d8	53.0		65 - 126	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		58 - 135	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	173000	5.65			
540-36-3	1,4-Difluorobenzene	288000	6.85			
3114-55-4	Chlorobenzene-d5	251000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	99600	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	TB-10032019	SDG No.:	K5154
Lab Sample ID:	K5154-20	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012907.D	1		10/08/19 23:16	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-102S	SDG No.:	K5154
Lab Sample ID:	K5154-21	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012917.D	1		10/09/19 03:08	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	4.90	J	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-102S	SDG No.:	K5154
Lab Sample ID:	K5154-21	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012917.D	1		10/09/19 03:08	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	2.10		0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.0		61 - 141	106%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		69 - 133	102%	SPK: 50
2037-26-5	Toluene-d8	52.7		65 - 126	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.6		58 - 135	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	185000	5.65			
540-36-3	1,4-Difluorobenzene	314000	6.85			
3114-55-4	Chlorobenzene-d5	272000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	110000	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-102S	SDG No.:	K5154
Lab Sample ID:	K5154-21	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012917.D	1		10/09/19 03:08	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-102I	SDG No.:	K5154
Lab Sample ID:	K5154-22	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012918.D	1		10/09/19 03:32	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	2.70	J	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00		0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	5.40		0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-102I	SDG No.:	K5154
Lab Sample ID:	K5154-22	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012918.D	1		10/09/19 03:32	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	11.5		0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.6		61 - 141	107%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		69 - 133	104%	SPK: 50
2037-26-5	Toluene-d8	52.6		65 - 126	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.7		58 - 135	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	177000	5.65			
540-36-3	1,4-Difluorobenzene	303000	6.85			
3114-55-4	Chlorobenzene-d5	256000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	96200	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-102I	SDG No.:	K5154
Lab Sample ID:	K5154-22	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012918.D	1		10/09/19 03:32	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-102D	SDG No.:	K5154
Lab Sample ID:	K5154-23	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012919.D	1		10/09/19 03:55	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	4.30	J	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-102D	SDG No.:	K5154
Lab Sample ID:	K5154-23	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012919.D	1		10/09/19 03:55	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.4		61 - 141	103%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		69 - 133	104%	SPK: 50
2037-26-5	Toluene-d8	52.2		65 - 126	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.4		58 - 135	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	185000	5.65			
540-36-3	1,4-Difluorobenzene	312000	6.85			
3114-55-4	Chlorobenzene-d5	265000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	107000	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-102D	SDG No.:	K5154
Lab Sample ID:	K5154-23	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012919.D	1		10/09/19 03:55	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-101S	SDG No.:	K5154
Lab Sample ID:	K5154-24	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012920.D	1		10/09/19 04:18	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	3.80		0.18	1.00	ug/L
67-64-1	Acetone	3.70	J	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	3.30		0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	4.20		0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.40		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.87	J	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	17.3		0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-101S	SDG No.:	K5154
Lab Sample ID:	K5154-24	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012920.D	1		10/09/19 04:18	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	11.8		0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.1		61 - 141	106%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		69 - 133	103%	SPK: 50
2037-26-5	Toluene-d8	52.3		65 - 126	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.1		58 - 135	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	179000	5.65			
540-36-3	1,4-Difluorobenzene	305000	6.86			
3114-55-4	Chlorobenzene-d5	261000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	104000	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-101S	SDG No.:	K5154
Lab Sample ID:	K5154-24	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012920.D	1		10/09/19 04:18	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-1011	SDG No.:	K5154
Lab Sample ID:	K5154-25	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012921.D	1		10/09/19 04:42	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	5.90		0.18	1.00	ug/L
67-64-1	Acetone	4.30	J	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	4.50		0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	4.50		0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.40		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.97	J	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	15.8		0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-1011	SDG No.:	K5154
Lab Sample ID:	K5154-25	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012921.D	1		10/09/19 04:42	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	37.3		0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.5		61 - 141	105%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		69 - 133	103%	SPK: 50
2037-26-5	Toluene-d8	52.2		65 - 126	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.9		58 - 135	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	181000	5.65			
540-36-3	1,4-Difluorobenzene	309000	6.85			
3114-55-4	Chlorobenzene-d5	261000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	104000	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-1011	SDG No.:	K5154
Lab Sample ID:	K5154-25	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012921.D	1		10/09/19 04:42	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-101D	SDG No.:	K5154
Lab Sample ID:	K5154-26	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012922.D	1		10/09/19 05:05	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	9.20		0.18	1.00	ug/L
67-64-1	Acetone	2.80	J	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	10.6		0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	9.40		0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	0.92	J	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	3.70		0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	84.0		0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-101D	SDG No.:	K5154
Lab Sample ID:	K5154-26	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012922.D	1		10/09/19 05:05	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	13.5		0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.8		61 - 141	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		69 - 133	104%	SPK: 50
2037-26-5	Toluene-d8	52.2		65 - 126	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.4		58 - 135	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	186000	5.65			
540-36-3	1,4-Difluorobenzene	312000	6.85			
3114-55-4	Chlorobenzene-d5	269000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	109000	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-101D	SDG No.:	K5154
Lab Sample ID:	K5154-26	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012922.D	1		10/09/19 05:05	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

QC SUMMARY

Surrogate Summary

SDG No.: **K5154**

Client: **TRC Companies, Inc.**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
K5154-01	TB-10012019	1,2-Dichloroethane-d4	50	48.8	98	61	141
		Dibromofluoromethane	50	51.1	102	69	133
		Toluene-d8	50	51.6	103	65	126
		4-Bromofluorobenzene	50	41.3	83	58	135
K5154-02	FB-10012019	1,2-Dichloroethane-d4	50	47.0	94	61	141
		Dibromofluoromethane	50	50.9	102	69	133
		Toluene-d8	50	51.4	103	65	126
		4-Bromofluorobenzene	50	44.4	89	58	135
K5154-03	MW-106S	1,2-Dichloroethane-d4	50	48.7	97	61	141
		Dibromofluoromethane	50	51.4	103	69	133
		Toluene-d8	50	51.3	103	65	126
		4-Bromofluorobenzene	50	42.1	84	58	135
K5154-04	MW-106I	1,2-Dichloroethane-d4	50	48.4	97	61	141
		Dibromofluoromethane	50	50.8	102	69	133
		Toluene-d8	50	51.5	103	65	126
		4-Bromofluorobenzene	50	41.1	82	58	135
K5154-05	MW-106D	1,2-Dichloroethane-d4	50	48.1	96	61	141
		Dibromofluoromethane	50	50.9	102	69	133
		Toluene-d8	50	51.6	103	65	126
		4-Bromofluorobenzene	50	43.6	87	58	135
K5154-06	MW-107	1,2-Dichloroethane-d4	50	47.5	95	61	141
		Dibromofluoromethane	50	51.7	103	69	133
		Toluene-d8	50	51.3	103	65	126
		4-Bromofluorobenzene	50	42.5	85	58	135
K5154-09	TB-10022019	1,2-Dichloroethane-d4	50	44.8	90	61	141
		Dibromofluoromethane	50	49.5	99	69	133
		Toluene-d8	50	51.0	102	65	126
		4-Bromofluorobenzene	50	42.4	85	58	135
K5154-10	MW-103S	1,2-Dichloroethane-d4	50	45.4	91	61	141
		Dibromofluoromethane	50	48.9	98	69	133
		Toluene-d8	50	51.0	102	65	126
		4-Bromofluorobenzene	50	44.7	89	58	135
K5154-11	MW-103I	1,2-Dichloroethane-d4	50	45.0	90	61	141
		Dibromofluoromethane	50	49.7	99	69	133
		Toluene-d8	50	50.6	101	65	126
		4-Bromofluorobenzene	50	43.2	86	58	135
K5154-12MS	MW-103IMS	1,2-Dichloroethane-d4	50	48.1	96	61	141
		Dibromofluoromethane	50	51.8	104	69	133
		Toluene-d8	50	50.0	100	65	126
		4-Bromofluorobenzene	50	52.3	105	58	135
K5154-13MSD	MW-103IMSD	1,2-Dichloroethane-d4	50	48.7	97	61	141
		Dibromofluoromethane	50	53.0	106	69	133
		Toluene-d8	50	51.1	102	65	126
		4-Bromofluorobenzene	50	50.6	101	58	135
K5154-14	MW-103D	1,2-Dichloroethane-d4	50	44.5	89	61	141
		Dibromofluoromethane	50	50.5	101	69	133
		Toluene-d8	50	51.5	103	65	126
		4-Bromofluorobenzene	50	42.5	85	58	135
K5154-15	MW-105S	1,2-Dichloroethane-d4	50	45.5	91	61	141
		Dibromofluoromethane	50	51.5	103	69	133
		Toluene-d8	50	51.6	103	65	126
		4-Bromofluorobenzene	50	45.9	92	58	135

Surrogate Summary

SDG No.: **K5154**

Client: **TRC Companies, Inc.**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
K5154-16	MW-105I	1,2-Dichloroethane-d4	50	44.5	89	61	141
		Dibromofluoromethane	50	49.3	99	69	133
		Toluene-d8	50	51.0	102	65	126
		4-Bromofluorobenzene	50	44.6	89	58	135
K5154-17	MW-105D	1,2-Dichloroethane-d4	50	45.7	91	61	141
		Dibromofluoromethane	50	50.5	101	69	133
		Toluene-d8	50	51.2	102	65	126
		4-Bromofluorobenzene	50	43.6	87	58	135
K5154-18	MW-104I	1,2-Dichloroethane-d4	50	45.2	90	61	141
		Dibromofluoromethane	50	50.7	101	69	133
		Toluene-d8	50	51.5	103	65	126
		4-Bromofluorobenzene	50	44.8	90	58	135
K5154-19	MW-104D	1,2-Dichloroethane-d4	50	45.4	91	61	141
		Dibromofluoromethane	50	50.3	101	69	133
		Toluene-d8	50	51.3	102	65	126
		4-Bromofluorobenzene	50	47.0	94	58	135
K5154-20	TB-10032019	1,2-Dichloroethane-d4	50	51.8	104	61	141
		Dibromofluoromethane	50	51.4	103	69	133
		Toluene-d8	50	53.0	106	65	126
		4-Bromofluorobenzene	50	47.0	94	58	135
K5154-21	MW-102S	1,2-Dichloroethane-d4	50	53.0	106	61	141
		Dibromofluoromethane	50	51.0	102	69	133
		Toluene-d8	50	52.7	105	65	126
		4-Bromofluorobenzene	50	46.6	93	58	135
K5154-22	MW-102I	1,2-Dichloroethane-d4	50	53.6	107	61	141
		Dibromofluoromethane	50	51.9	104	69	133
		Toluene-d8	50	52.6	105	65	126
		4-Bromofluorobenzene	50	44.7	89	58	135
K5154-23	MW-102D	1,2-Dichloroethane-d4	50	51.4	103	61	141
		Dibromofluoromethane	50	51.8	104	69	133
		Toluene-d8	50	52.2	104	65	126
		4-Bromofluorobenzene	50	46.4	93	58	135
K5154-24	MW-101S	1,2-Dichloroethane-d4	50	53.1	106	61	141
		Dibromofluoromethane	50	51.6	103	69	133
		Toluene-d8	50	52.3	105	65	126
		4-Bromofluorobenzene	50	46.1	92	58	135
K5154-25	MW-101I	1,2-Dichloroethane-d4	50	52.5	105	61	141
		Dibromofluoromethane	50	51.7	103	69	133
		Toluene-d8	50	52.2	104	65	126
		4-Bromofluorobenzene	50	45.9	92	58	135
K5154-26	MW-101D	1,2-Dichloroethane-d4	50	51.8	104	61	141
		Dibromofluoromethane	50	51.9	104	69	133
		Toluene-d8	50	52.2	104	65	126
		4-Bromofluorobenzene	50	47.4	95	58	135
VX1002WBL01	VX1002WBL01	1,2-Dichloroethane-d4	50	53.3	107	61	141
		Dibromofluoromethane	50	56.7	113	69	133
		Toluene-d8	50	55.6	111	65	126
		4-Bromofluorobenzene	50	45.2	90	58	135
VX1002WBS01	VX1002WBS01	1,2-Dichloroethane-d4	50	45.3	91	61	141
		Dibromofluoromethane	50	49.3	99	69	133
		Toluene-d8	50	48.6	97	65	126
		4-Bromofluorobenzene	50	47.0	94	58	135

Surrogate Summary

SDG No.: K5154

Client: TRC Companies, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
VX1003WBL01	VX1003WBL01	1,2-Dichloroethane-d4	50	46.5	93	61	141
		Dibromofluoromethane	50	50.5	101	69	133
		Toluene-d8	50	50.8	102	65	126
		4-Bromofluorobenzene	50	43.7	87	58	135
VX1003WBS01	VX1003WBS01	1,2-Dichloroethane-d4	50	45.0	90	61	141
		Dibromofluoromethane	50	51.2	102	69	133
		Toluene-d8	50	49.5	99	65	126
		4-Bromofluorobenzene	50	48.9	98	58	135
VX1007WBL01	VX1007WBL01	1,2-Dichloroethane-d4	50	44.5	89	61	141
		Dibromofluoromethane	50	50.4	101	69	133
		Toluene-d8	50	51.2	102	65	126
		4-Bromofluorobenzene	50	46.5	93	58	135
VX1007WBS01	VX1007WBS01	1,2-Dichloroethane-d4	50	44.8	90	61	141
		Dibromofluoromethane	50	51.8	104	69	133
		Toluene-d8	50	50.2	100	65	126
		4-Bromofluorobenzene	50	48.8	98	58	135
VX1008WBL02	VX1008WBL02	1,2-Dichloroethane-d4	50	51.9	104	61	141
		Dibromofluoromethane	50	51.6	103	69	133
		Toluene-d8	50	52.3	105	65	126
		4-Bromofluorobenzene	50	47.8	96	58	135
VX1008WBS02	VX1008WBS02	1,2-Dichloroethane-d4	50	53.3	107	61	141
		Dibromofluoromethane	50	52.8	106	69	133
		Toluene-d8	50	52.1	104	65	126
		4-Bromofluorobenzene	50	50.2	100	58	135

Matrix Spike/Matrix Spike Duplicate Summary SW-846

SDG No.: K5154

Client: TRC Companies, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample	Result	Units	Rec			RPD		Limits		RPD
		Result			Qual	RPD	Qual	Low	High			
Lab Sample ID :	K5154-12MS	Client Sample ID :	MW-103IMS					Datafile :	VX012852.D			
Dichlorodifluoromethane	50	0	33.1	ug/L	66				47	161		
Chloromethane	50	0	37.0	ug/L	74				53	157		
Vinyl chloride	50	2.90	42.5	ug/L	79				57	149		
Bromomethane	50	0	30.8	ug/L	62				45	165		
Chloroethane	50	0	47.2	ug/L	94				47	166		
Trichlorofluoromethane	50	0	39.9	ug/L	80				51	165		
1,1,2-Trichlorotrifluoroethane	50	0	40.4	ug/L	81				61	145		
1,1-Dichloroethene	50	0	45.6	ug/L	91				55	148		
Acetone	250	3.00	200	ug/L	79				11	159		
Carbon disulfide	50	0	40.6	ug/L	81				13	149		
Methyl tert-butyl Ether	50	0	50.3	ug/L	101				60	145		
Methyl Acetate	50	0	46.1	ug/L	92				27	167		
Methylene Chloride	50	0	47.3	ug/L	95				56	146		
trans-1,2-Dichloroethene	50	0	45.6	ug/L	91				60	141		
1,1-Dichloroethane	50	5.80	53.7	ug/L	96				61	144		
Cyclohexane	50	0	39.5	ug/L	79				57	142		
2-Butanone	250	0	230	ug/L	92				42	145		
Carbon Tetrachloride	50	0	42.8	ug/L	86				60	140		
cis-1,2-Dichloroethene	50	3.10	52.2	ug/L	98				48	156		
Bromochloromethane	50	0	50.4	ug/L	101				59	146		
Chloroform	50	0	47.6	ug/L	95				63	140		
1,1,1-Trichloroethane	50	0	45.5	ug/L	91				65	140		
Methylcyclohexane	50	0	39.8	ug/L	80				62	128		
Benzene	50	0	48.1	ug/L	96				62	134		
1,2-Dichloroethane	50	0	47.6	ug/L	95				67	136		
Trichloroethene	50	0	47.2	ug/L	94				64	131		
1,2-Dichloropropane	50	0	50.2	ug/L	100				69	130		
Bromodichloromethane	50	0	49.1	ug/L	98				66	132		
4-Methyl-2-Pentanone	250	0	250	ug/L	100				57	148		
Toluene	50	0	48.4	ug/L	97				68	129		
t-1,3-Dichloropropene	50	0	48.4	ug/L	97				54	136		
cis-1,3-Dichloropropene	50	0	48.3	ug/L	97				56	133		
1,1,2-Trichloroethane	50	0	52.4	ug/L	105				68	134		
2-Hexanone	250	0	250	ug/L	100				46	158		
Dibromochloromethane	50	0	53.0	ug/L	106				59	136		
1,2-Dibromoethane	50	0	51.5	ug/L	103				65	138		
Tetrachloroethene	50	0	43.2	ug/L	86				29	137		
Chlorobenzene	50	0	48.8	ug/L	98				68	126		
Ethyl Benzene	50	0	48.2	ug/L	96				61	131		
m/p-Xylenes	100	0	96.1	ug/L	96				64	125		
o-Xylene	50	0	49.7	ug/L	99				65	126		
Styrene	50	0	51.6	ug/L	103				40	140		
Bromoform	50	0	53.9	ug/L	108				42	134		
Isopropylbenzene	50	0	46.3	ug/L	93				58	132		
1,1,2,2-Tetrachloroethane	50	0	53.1	ug/L	106				61	136		
1,3-Dichlorobenzene	50	0	50.3	ug/L	101				63	125		
1,4-Dichlorobenzene	50	0	49.3	ug/L	99				64	124		

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: K5154

Client: TRC Companies, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample	Result	Units	Rec			RPD	Limits		
		Result			Rec	Qual	RPD	Qual	Low	High	RPD
1,2-Dichlorobenzene	50	0	49.9	ug/L	100				64	126	
1,2-Dibromo-3-Chloropropane	50	0	50.2	ug/L	100				57	139	
1,2,4-Trichlorobenzene	50	0	52.4	ug/L	105				57	130	
1,2,3-Trichlorobenzene	50	0	52.0	ug/L	104				57	131	

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: K5154Client: TRC Companies, Inc.Analytical Method: SW8260-Low

Parameter	Spike	Sample	Result	Units	Rec		RPD		Limits		RPD
		Result			Qual	RPD	Qual	Low	High		
Lab Sample ID :	K5154-13MSD	Client Sample ID :	MW-1031MSD					Datafile :	VX012853.D		
Dichlorodifluoromethane	50	0	35.6	ug/L	71		7		47	161	20
Chloromethane	50	0	38.2	ug/L	76		3		53	157	20
Vinyl chloride	50	2.90	45.2	ug/L	85		7		57	149	20
Bromomethane	50	0	30.7	ug/L	61		0		45	165	20
Chloroethane	50	0	53.8	ug/L	108		13		47	166	20
Trichlorofluoromethane	50	0	42.7	ug/L	85		7		51	165	20
1,1,2-Trichlorotrifluoroethane	50	0	42.8	ug/L	86		6		61	145	20
1,1-Dichloroethene	50	0	47.9	ug/L	96		5		55	148	20
Acetone	250	3.00	200	ug/L	79		0		11	159	20
Carbon disulfide	50	0	43.7	ug/L	87		7		13	149	20
Methyl tert-butyl Ether	50	0	50.3	ug/L	101		0		60	145	20
Methyl Acetate	50	0	47.9	ug/L	96		4		27	167	20
Methylene Chloride	50	0	47.9	ug/L	96		1		56	146	20
trans-1,2-Dichloroethene	50	0	46.8	ug/L	94		3		60	141	20
1,1-Dichloroethane	50	5.80	54.8	ug/L	98		2		61	144	20
Cyclohexane	50	0	42.9	ug/L	86		8		57	142	20
2-Butanone	250	0	230	ug/L	92		0		42	145	20
Carbon Tetrachloride	50	0	45.0	ug/L	90		5		60	140	20
cis-1,2-Dichloroethene	50	3.10	51.9	ug/L	98		0		48	156	20
Bromochloromethane	50	0	47.9	ug/L	96		5		59	146	20
Chloroform	50	0	47.5	ug/L	95		0		63	140	20
1,1,1-Trichloroethane	50	0	46.7	ug/L	93		3		65	140	20
Methylcyclohexane	50	0	40.6	ug/L	81		2		62	128	20
Benzene	50	0	48.3	ug/L	97		0		62	134	20
1,2-Dichloroethane	50	0	46.4	ug/L	93		3		67	136	20
Trichloroethene	50	0	47.0	ug/L	94		0		64	131	20
1,2-Dichloropropane	50	0	49.6	ug/L	99		1		69	130	20
Bromodichloromethane	50	0	49.1	ug/L	98		0		66	132	20
4-Methyl-2-Pentanone	250	0	240	ug/L	96		4		57	148	20
Toluene	50	0	49.1	ug/L	98		1		68	129	20
t-1,3-Dichloropropene	50	0	48.8	ug/L	98		1		54	136	20
cis-1,3-Dichloropropene	50	0	48.5	ug/L	97		0		56	133	20
1,1,2-Trichloroethane	50	0	50.8	ug/L	102		3		68	134	20
2-Hexanone	250	0	250	ug/L	100		0		46	158	20
Dibromochloromethane	50	0	51.2	ug/L	102		3		59	136	20
1,2-Dibromoethane	50	0	51.1	ug/L	102		1		65	138	20
Tetrachloroethene	50	0	44.9	ug/L	90		4		29	137	20
Chlorobenzene	50	0	49.6	ug/L	99		2		68	126	20
Ethyl Benzene	50	0	49.1	ug/L	98		2		61	131	20
m/p-Xylenes	100	0	98.0	ug/L	98		2		64	125	20
o-Xylene	50	0	49.3	ug/L	99		1		65	126	20
Styrene	50	0	51.8	ug/L	104		0		40	140	20
Bromoform	50	0	55.5	ug/L	111		3		42	134	20
Isopropylbenzene	50	0	47.0	ug/L	94		2		58	132	20
1,1,2,2-Tetrachloroethane	50	0	51.4	ug/L	103		3		61	136	20
1,3-Dichlorobenzene	50	0	49.5	ug/L	99		2		63	125	20
1,4-Dichlorobenzene	50	0	48.9	ug/L	98		1		64	124	20

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: K5154

Client: TRC Companies, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample	Result	Units	Rec			RPD	Limits		
		Result			Qual	RPD	Qual	Low	High	RPD	
1,2-Dichlorobenzene	50	0	48.8	ug/L	98		2		64	126	20
1,2-Dibromo-3-Chloropropane	50	0	48.6	ug/L	97		3		57	139	20
1,2,4-Trichlorobenzene	50	0	50.0	ug/L	100		5		57	130	20
1,2,3-Trichlorobenzene	50	0	50.6	ug/L	101		3		57	131	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: K5154

Client: TRC Companies, Inc.

Analytical Method: SW8260-Low

Datafile : VX012752.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VX1002WBS01	Dichlorodifluoromethane	20	16.2	ug/L	81			46	139	
	Chloromethane	20	16.4	ug/L	82			58	139	
	Vinyl chloride	20	16.8	ug/L	84			65	137	
	Bromomethane	20	20.0	ug/L	100			50	162	
	Chloroethane	20	16.5	ug/L	83			54	160	
	Trichlorofluoromethane	20	17.2	ug/L	86			67	143	
	1,1,2-Trichlorotrifluoroethane	20	18.3	ug/L	92			71	136	
	1,1-Dichloroethene	20	17.8	ug/L	89			69	134	
	Acetone	100	84.2	ug/L	84			41	181	
	Carbon disulfide	20	15.6	ug/L	78			63	138	
	Methyl tert-butyl Ether	20	17.7	ug/L	89			72	136	
	Methyl Acetate	20	17.0	ug/L	85			51	158	
	Methylene Chloride	20	17.7	ug/L	89			67	138	
	trans-1,2-Dichloroethene	20	18.0	ug/L	90			72	132	
	1,1-Dichloroethane	20	17.7	ug/L	89			74	135	
	Cyclohexane	20	17.3	ug/L	86			67	132	
	2-Butanone	100	83.8	ug/L	84			64	146	
	Carbon Tetrachloride	20	17.9	ug/L	90			71	134	
	cis-1,2-Dichloroethene	20	18.0	ug/L	90			74	130	
	Bromochloromethane	20	18.4	ug/L	92			71	136	
	Chloroform	20	17.6	ug/L	88			74	134	
	1,1,1-Trichloroethane	20	17.7	ug/L	89			74	133	
	Methylcyclohexane	20	17.8	ug/L	89			71	125	
	Benzene	20	18.6	ug/L	93			75	125	
	1,2-Dichloroethane	20	18.4	ug/L	92			76	130	
	Trichloroethene	20	19.2	ug/L	96			73	127	
	1,2-Dichloropropane	20	18.7	ug/L	94			76	125	
	Bromodichloromethane	20	17.8	ug/L	89			78	127	
	4-Methyl-2-Pentanone	100	88.0	ug/L	88			71	140	
	Toluene	20	18.8	ug/L	94			74	125	
	t-1,3-Dichloropropene	20	17.5	ug/L	88			74	131	
	cis-1,3-Dichloropropene	20	17.7	ug/L	89			74	128	
	1,1,2-Trichloroethane	20	18.8	ug/L	94			75	129	
	2-Hexanone	100	87.4	ug/L	87			62	153	
	Dibromochloromethane	20	18.5	ug/L	93			74	131	
	1,2-Dibromoethane	20	18.9	ug/L	95			74	129	
	Tetrachloroethene	20	20.5	ug/L	103			46	157	
	Chlorobenzene	20	18.6	ug/L	93			76	123	
	Ethyl Benzene	20	18.7	ug/L	94			75	126	
	m/p-Xylenes	40	37.3	ug/L	93			74	126	
	o-Xylene	20	18.4	ug/L	92			73	127	
	Styrene	20	18.8	ug/L	94			75	126	
	Bromoform	20	17.8	ug/L	89			66	130	
	Isopropylbenzene	20	19.0	ug/L	95			70	127	
	1,1,2,2-Tetrachloroethane	20	18.4	ug/L	92			66	131	
	1,3-Dichlorobenzene	20	19.1	ug/L	96			70	125	
	1,4-Dichlorobenzene	20	18.9	ug/L	95			71	124	
	1,2-Dichlorobenzene	20	19.2	ug/L	96			71	126	
	1,2-Dibromo-3-Chloropropane	20	16.6	ug/L	83			62	134	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: K5154

Client: TRC Companies, Inc.

Analytical Method: SW8260-Low

Datafile : VX012752.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VX1002WBS01	1,2,4-Trichlorobenzene	20	18.9	ug/L	95			62	129	
	1,2,3-Trichlorobenzene	20	19.5	ug/L	98			58	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: K5154

Client: TRC Companies, Inc.

Analytical Method: SW8260-Low

Datafile : VX012778.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VX1003WBS01	Dichlorodifluoromethane	20	15.9	ug/L	79			46	139	
	Chloromethane	20	16.0	ug/L	80			58	139	
	Vinyl chloride	20	16.3	ug/L	81			65	137	
	Bromomethane	20	19.4	ug/L	97			50	162	
	Chloroethane	20	15.3	ug/L	77			54	160	
	Trichlorofluoromethane	20	17.0	ug/L	85			67	143	
	1,1,2-Trichlorotrifluoroethane	20	18.7	ug/L	94			71	136	
	1,1-Dichloroethene	20	18.2	ug/L	91			69	134	
	Acetone	100	78.7	ug/L	79			41	181	
	Carbon disulfide	20	15.2	ug/L	76			63	138	
	Methyl tert-butyl Ether	20	17.9	ug/L	90			72	136	
	Methyl Acetate	20	17.7	ug/L	89			51	158	
	Methylene Chloride	20	17.9	ug/L	90			67	138	
	trans-1,2-Dichloroethene	20	17.5	ug/L	88			72	132	
	1,1-Dichloroethane	20	18.1	ug/L	91			74	135	
	Cyclohexane	20	17.2	ug/L	86			67	132	
	2-Butanone	100	80.4	ug/L	80			64	146	
	Carbon Tetrachloride	20	18.2	ug/L	91			71	134	
	cis-1,2-Dichloroethene	20	18.1	ug/L	91			74	130	
	Bromochloromethane	20	19.3	ug/L	97			71	136	
	Chloroform	20	17.9	ug/L	90			74	134	
	1,1,1-Trichloroethane	20	17.5	ug/L	88			74	133	
	Methylcyclohexane	20	17.8	ug/L	89			71	125	
	Benzene	20	19.0	ug/L	95			75	125	
	1,2-Dichloroethane	20	18.6	ug/L	93			76	130	
	Trichloroethene	20	19.4	ug/L	97			73	127	
	1,2-Dichloropropane	20	19.3	ug/L	97			76	125	
	Bromodichloromethane	20	18.1	ug/L	91			78	127	
	4-Methyl-2-Pentanone	100	88.1	ug/L	88			71	140	
	Toluene	20	19.5	ug/L	98			74	125	
	t-1,3-Dichloropropene	20	17.7	ug/L	89			74	131	
	cis-1,3-Dichloropropene	20	18.0	ug/L	90			74	128	
	1,1,2-Trichloroethane	20	19.7	ug/L	99			75	129	
	2-Hexanone	100	86.4	ug/L	86			62	153	
	Dibromochloromethane	20	18.6	ug/L	93			74	131	
	1,2-Dibromoethane	20	19.8	ug/L	99			74	129	
	Tetrachloroethene	20	21.1	ug/L	106			46	157	
	Chlorobenzene	20	19.0	ug/L	95			76	123	
	Ethyl Benzene	20	18.7	ug/L	94			75	126	
	m/p-Xylenes	40	37.6	ug/L	94			74	126	
	o-Xylene	20	18.7	ug/L	94			73	127	
	Styrene	20	19.3	ug/L	97			75	126	
	Bromoform	20	17.9	ug/L	90			66	130	
	Isopropylbenzene	20	18.9	ug/L	95			70	127	
	1,1,2,2-Tetrachloroethane	20	18.3	ug/L	92			66	131	
	1,3-Dichlorobenzene	20	19.7	ug/L	99			70	125	
	1,4-Dichlorobenzene	20	19.0	ug/L	95			71	124	
	1,2-Dichlorobenzene	20	19.1	ug/L	96			71	126	
	1,2-Dibromo-3-Chloropropane	20	16.4	ug/L	82			62	134	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: K5154
Client: TRC Companies, Inc.
Analytical Method: SW8260-Low

Datafile : VX012778.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VX1003WBS01	1,2,4-Trichlorobenzene	20	18.6	ug/L	93			62	129	
	1,2,3-Trichlorobenzene	20	18.7	ug/L	94			58	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: K5154

Client: TRC Companies, Inc.

Analytical Method: SW8260-Low

Datafile : VX012832.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VX1007WBS01	Dichlorodifluoromethane	20	15.7	ug/L	79			46	139	
	Chloromethane	20	15.6	ug/L	78			58	139	
	Vinyl chloride	20	16.0	ug/L	80			65	137	
	Bromomethane	20	18.8	ug/L	94			50	162	
	Chloroethane	20	16.7	ug/L	84			54	160	
	Trichlorofluoromethane	20	16.7	ug/L	84			67	143	
	1,1,2-Trichlorotrifluoroethane	20	18.7	ug/L	94			71	136	
	1,1-Dichloroethene	20	18.3	ug/L	92			69	134	
	Acetone	100	81.6	ug/L	82			41	181	
	Carbon disulfide	20	16.2	ug/L	81			63	138	
	Methyl tert-butyl Ether	20	18.0	ug/L	90			72	136	
	Methyl Acetate	20	17.9	ug/L	90			51	158	
	Methylene Chloride	20	18.1	ug/L	91			67	138	
	trans-1,2-Dichloroethene	20	17.9	ug/L	90			72	132	
	1,1-Dichloroethane	20	18.0	ug/L	90			74	135	
	Cyclohexane	20	17.2	ug/L	86			67	132	
	2-Butanone	100	83.1	ug/L	83			64	146	
	Carbon Tetrachloride	20	17.9	ug/L	90			71	134	
	cis-1,2-Dichloroethene	20	18.2	ug/L	91			74	130	
	Bromochloromethane	20	17.1	ug/L	86			71	136	
	Chloroform	20	17.9	ug/L	90			74	134	
	1,1,1-Trichloroethane	20	17.5	ug/L	88			74	133	
	Methylcyclohexane	20	18.7	ug/L	94			71	125	
	Benzene	20	19.0	ug/L	95			75	125	
	1,2-Dichloroethane	20	18.4	ug/L	92			76	130	
	Trichloroethene	20	19.8	ug/L	99			73	127	
	1,2-Dichloropropane	20	19.1	ug/L	96			76	125	
	Bromodichloromethane	20	18.7	ug/L	94			78	127	
	4-Methyl-2-Pentanone	100	89.0	ug/L	89			71	140	
	Toluene	20	19.1	ug/L	96			74	125	
	t-1,3-Dichloropropene	20	18.6	ug/L	93			74	131	
	cis-1,3-Dichloropropene	20	18.9	ug/L	95			74	128	
	1,1,2-Trichloroethane	20	19.8	ug/L	99			75	129	
	2-Hexanone	100	88.6	ug/L	89			62	153	
	Dibromochloromethane	20	20.3	ug/L	102			74	131	
	1,2-Dibromoethane	20	19.6	ug/L	98			74	129	
	Tetrachloroethene	20	21.7	ug/L	109			46	157	
	Chlorobenzene	20	19.5	ug/L	98			76	123	
	Ethyl Benzene	20	19.4	ug/L	97			75	126	
	m/p-Xylenes	40	38.7	ug/L	97			74	126	
	o-Xylene	20	19.6	ug/L	98			73	127	
	Styrene	20	19.9	ug/L	100			75	126	
	Bromoform	20	19.6	ug/L	98			66	130	
	Isopropylbenzene	20	19.2	ug/L	96			70	127	
	1,1,2,2-Tetrachloroethane	20	17.9	ug/L	90			66	131	
	1,3-Dichlorobenzene	20	19.5	ug/L	98			70	125	
	1,4-Dichlorobenzene	20	19.4	ug/L	97			71	124	
	1,2-Dichlorobenzene	20	19.6	ug/L	98			71	126	
	1,2-Dibromo-3-Chloropropane	20	17.1	ug/L	86			62	134	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: K5154
Client: TRC Companies, Inc.
Analytical Method: SW8260-Low

Datafile : VX012832.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VX1007WBS01	1,2,4-Trichlorobenzene	20	19.5	ug/L	98			62	129	
	1,2,3-Trichlorobenzene	20	20.2	ug/L	101			58	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: K5154

Client: TRC Companies, Inc.

Analytical Method: SW8260-Low

Datafile : VX012906.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VX1008WBS02	Dichlorodifluoromethane	20	20.4	ug/L	102			46	139	
	Chloromethane	20	20.6	ug/L	103			58	139	
	Vinyl chloride	20	20.0	ug/L	100			65	137	
	Bromomethane	20	24.7	ug/L	124			50	162	
	Chloroethane	20	20.4	ug/L	102			54	160	
	Trichlorofluoromethane	20	20.3	ug/L	102			67	143	
	1,1,2-Trichlorotrifluoroethane	20	19.7	ug/L	99			71	136	
	1,1-Dichloroethene	20	19.8	ug/L	99			69	134	
	Acetone	100	84.7	ug/L	85			41	181	
	Carbon disulfide	20	18.4	ug/L	92			63	138	
	Methyl tert-butyl Ether	20	21.0	ug/L	105			72	136	
	Methyl Acetate	20	20.9	ug/L	104			51	158	
	Methylene Chloride	20	19.2	ug/L	96			67	138	
	trans-1,2-Dichloroethene	20	20.5	ug/L	103			72	132	
	1,1-Dichloroethane	20	20.6	ug/L	103			74	135	
	Cyclohexane	20	20.0	ug/L	100			67	132	
	2-Butanone	100	98.0	ug/L	98			64	146	
	Carbon Tetrachloride	20	19.2	ug/L	96			71	134	
	cis-1,2-Dichloroethene	20	20.1	ug/L	101			74	130	
	Bromochloromethane	20	22.9	ug/L	115			71	136	
	Chloroform	20	20.2	ug/L	101			74	134	
	1,1,1-Trichloroethane	20	20.7	ug/L	104			74	133	
	Methylcyclohexane	20	19.1	ug/L	96			71	125	
	Benzene	20	20.3	ug/L	102			75	125	
	1,2-Dichloroethane	20	19.9	ug/L	100			76	130	
	Trichloroethene	20	18.9	ug/L	95			73	127	
	1,2-Dichloropropane	20	20.5	ug/L	103			76	125	
	Bromodichloromethane	20	19.5	ug/L	98			78	127	
	4-Methyl-2-Pentanone	100	100	ug/L	100			71	140	
	Toluene	20	19.6	ug/L	98			74	125	
	t-1,3-Dichloropropene	20	18.4	ug/L	92			74	131	
	cis-1,3-Dichloropropene	20	18.8	ug/L	94			74	128	
	1,1,2-Trichloroethane	20	19.6	ug/L	98			75	129	
	2-Hexanone	100	98.0	ug/L	98			62	153	
	Dibromochloromethane	20	18.2	ug/L	91			74	131	
	1,2-Dibromoethane	20	19.8	ug/L	99			74	129	
	Tetrachloroethene	20	20.5	ug/L	103			46	157	
	Chlorobenzene	20	19.7	ug/L	99			76	123	
	Ethyl Benzene	20	20.3	ug/L	102			75	126	
	m/p-Xylenes	40	40.3	ug/L	101			74	126	
	o-Xylene	20	20.1	ug/L	101			73	127	
	Styrene	20	20.1	ug/L	101			75	126	
	Bromoform	20	18.0	ug/L	90			66	130	
	Isopropylbenzene	20	20.4	ug/L	102			70	127	
	1,1,2,2-Tetrachloroethane	20	20.1	ug/L	101			66	131	
	1,3-Dichlorobenzene	20	19.5	ug/L	98			70	125	
	1,4-Dichlorobenzene	20	19.1	ug/L	96			71	124	
	1,2-Dichlorobenzene	20	19.9	ug/L	100			71	126	
	1,2-Dibromo-3-Chloropropane	20	19.1	ug/L	96			62	134	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: K5154
Client: TRC Companies, Inc.
Analytical Method: SW8260-Low

Datafile : VX012906.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VX1008WBS02	1,2,4-Trichlorobenzene	20	18.4	ug/L	92			62	129	
	1,2,3-Trichlorobenzene	20	18.5	ug/L	93			58	130	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1002WBL01

Lab Name: CHEMTECH

Contract: TRCE03

Lab Code: CHEM Case No.: K5154

SAS No.: K5154 SDG NO.: K5154

Lab File ID: VX012751.D

Lab Sample ID: VX1002WBL01

Date Analyzed: 10/02/2019

Time Analyzed: 11:11

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX1002WBS01	VX1002WBS01	VX012752.D	10/02/2019
TB-10012019	K5154-01	VX012753.D	10/02/2019
MW-106S	K5154-03	VX012762.D	10/02/2019
MW-106I	K5154-04	VX012763.D	10/02/2019
MW-107	K5154-06	VX012764.D	10/02/2019
MW-106D	K5154-05	VX012767.D	10/02/2019

COMMENTS:

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1003WBL01

Lab Name: CHEMTECH

Contract: TRCE03

Lab Code: CHEM Case No.: K5154

SAS No.: K5154 SDG NO.: K5154

Lab File ID: VX012777.D

Lab Sample ID: VX1003WBL01

Date Analyzed: 10/03/2019

Time Analyzed: 12:38

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX1003WBS01	VX1003WBS01	VX012778.D	10/03/2019
FB-10012019	K5154-02	VX012780.D	10/03/2019

COMMENTS:

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1007WBL01

Lab Name: CHEMTECH

Contract: TRCE03

Lab Code: CHEM Case No.: K5154

SAS No.: K5154 SDG NO.: K5154

Lab File ID: VX012830.D

Lab Sample ID: VX1007WBL01

Date Analyzed: 10/07/2019

Time Analyzed: 11:57

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX1007WBS01	VX1007WBS01	VX012832.D	10/07/2019
MW-103S	K5154-10	VX012838.D	10/07/2019
TB-10022019	K5154-09	VX012839.D	10/07/2019
MW-103I	K5154-11	VX012840.D	10/07/2019
MW-103D	K5154-14	VX012841.D	10/07/2019
MW-105S	K5154-15	VX012842.D	10/07/2019
MW-105I	K5154-16	VX012843.D	10/07/2019
MW-105D	K5154-17	VX012844.D	10/07/2019
MW-104I	K5154-18	VX012845.D	10/07/2019
MW-104D	K5154-19	VX012846.D	10/07/2019
MW-103IMS	K5154-12MS	VX012852.D	10/07/2019
MW-103IMSD	K5154-13MSD	VX012853.D	10/07/2019

COMMENTS:

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1008WBL02

Lab Name: CHEMTECH

Contract: TRCE03

Lab Code: CHEM Case No.: K5154

SAS No.: K5154 SDG NO.: K5154

Lab File ID: VX012905.D

Lab Sample ID: VX1008WBL02

Date Analyzed: 10/08/2019

Time Analyzed: 21:43

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX1008WBS02	VX1008WBS02	VX012906.D	10/08/2019
TB-10032019	K5154-20	VX012907.D	10/08/2019
MW-102S	K5154-21	VX012917.D	10/09/2019
MW-102I	K5154-22	VX012918.D	10/09/2019
MW-102D	K5154-23	VX012919.D	10/09/2019
MW-101S	K5154-24	VX012920.D	10/09/2019
MW-101I	K5154-25	VX012921.D	10/09/2019
MW-101D	K5154-26	VX012922.D	10/09/2019

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name:	CHEMTECH		Contract:	TRCE03	
Lab Code:	CHEM	Case No.:	K5154	SAS No.:	K5154
				SDG NO.:	K5154
Lab File ID:	VX012593.D		BFB Injection Date:	09/23/2019	
Instrument ID:	MSVOA_X		BFB Injection Time:	09:22	
GC Column:	DB-624UI	ID:	0.18	(mm)	
			Heated Purge:	Y/N	N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.4
75	30.0 - 60.0% of mass 95	53.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.3 (0.4) 1
174	50.0 - 100.0% of mass 95	62
175	5.0 - 9.0% of mass 174	5 (8.1) 1
176	95.0 - 101.0% of mass 174	60 (96.8) 1
177	5.0 - 9.0% of mass 176	4.3 (7.1) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VX012594.D	09/23/2019	10:09
VSTDIC005	VSTDIC005	VX012595.D	09/23/2019	10:32
VSTDIC020	VSTDIC020	VX012596.D	09/23/2019	10:56
VSTDIC050	VSTDIC050	VX012597.D	09/23/2019	11:19
VSTDIC100	VSTDIC100	VX012598.D	09/23/2019	11:42
VSTDIC150	VSTDIC150	VX012599.D	09/23/2019	12:05

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: <u>CHEMTECH</u>	Contract: <u>TRCE03</u>
Lab Code: <u>CHEM</u> Case No.: <u>K5154</u>	SAS No.: <u>K5154</u> SDG NO.: <u>K5154</u>
Lab File ID: <u>VX012749.D</u>	BFB Injection Date: <u>10/02/2019</u>
Instrument ID: <u>MSVOA_X</u>	BFB Injection Time: <u>09:27</u>
GC Column: <u>DB-624UI</u> ID: <u>0.18</u> (mm)	Heated Purge: Y/N <u>N</u>

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.9
75	30.0 - 60.0% of mass 95	49.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.4 (0.6) 1
174	50.0 - 100.0% of mass 95	64.6
175	5.0 - 9.0% of mass 174	5.2 (8.1) 1
176	95.0 - 101.0% of mass 174	61.7 (95.6) 1
177	5.0 - 9.0% of mass 176	4.5 (7.3) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX012750.D	10/02/2019	10:03
VX1002WBL01	VX1002WBL01	VX012751.D	10/02/2019	11:11
VX1002WBS01	VX1002WBS01	VX012752.D	10/02/2019	11:43
TB-10012019	K5154-01	VX012753.D	10/02/2019	12:06
MW-106S	K5154-03	VX012762.D	10/02/2019	15:39
MW-106I	K5154-04	VX012763.D	10/02/2019	16:02
MW-107	K5154-06	VX012764.D	10/02/2019	16:49
MW-106D	K5154-05	VX012767.D	10/02/2019	18:23

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: <u>CHEMTECH</u>	Contract: <u>TRCE03</u>
Lab Code: <u>CHEM</u> Case No.: <u>K5154</u>	SAS No.: <u>K5154</u> SDG NO.: <u>K5154</u>
Lab File ID: <u>VX012775.D</u>	BFB Injection Date: <u>10/03/2019</u>
Instrument ID: <u>MSVOA_X</u>	BFB Injection Time: <u>10:01</u>
GC Column: <u>DB-624UI</u> ID: <u>0.18</u> (mm)	Heated Purge: Y/N <u>N</u>

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.5
75	30.0 - 60.0% of mass 95	52
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	72.1
175	5.0 - 9.0% of mass 174	5.6 (7.8) 1
176	95.0 - 101.0% of mass 174	69.6 (96.5) 1
177	5.0 - 9.0% of mass 176	4.8 (7) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX012776.D	10/03/2019	11:10
VX1003WBL01	VX1003WBL01	VX012777.D	10/03/2019	12:38
VX1003WBS01	VX1003WBS01	VX012778.D	10/03/2019	13:07
FB-10012019	K5154-02	VX012780.D	10/03/2019	13:53

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name:	CHEMTECH		Contract:	TRCE03	
Lab Code:	CHEM	Case No.:	K5154	SAS No.:	K5154
				SDG NO.:	K5154
Lab File ID:	VX012828.D		BFB Injection Date:	10/07/2019	
Instrument ID:	MSVOA_X		BFB Injection Time:	10:10	
GC Column:	DB-624UI	ID:	0.18	(mm)	
			Heated Purge:	Y/N	N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.3
75	30.0 - 60.0% of mass 95	50.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.4 (0.7) 1
174	50.0 - 100.0% of mass 95	68.3
175	5.0 - 9.0% of mass 174	5.1 (7.5) 1
176	95.0 - 101.0% of mass 174	66.5 (97.4) 1
177	5.0 - 9.0% of mass 176	4.3 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX012829.D	10/07/2019	11:18
VX1007WBL01	VX1007WBL01	VX012830.D	10/07/2019	11:57
VX1007WBS01	VX1007WBS01	VX012832.D	10/07/2019	12:53
MW-103S	K5154-10	VX012838.D	10/07/2019	15:13
TB-10022019	K5154-09	VX012839.D	10/07/2019	15:36
MW-103I	K5154-11	VX012840.D	10/07/2019	16:00
MW-103D	K5154-14	VX012841.D	10/07/2019	16:23
MW-105S	K5154-15	VX012842.D	10/07/2019	16:47
MW-105I	K5154-16	VX012843.D	10/07/2019	17:10
MW-105D	K5154-17	VX012844.D	10/07/2019	17:33
MW-104I	K5154-18	VX012845.D	10/07/2019	17:57
MW-104D	K5154-19	VX012846.D	10/07/2019	18:20
MW-103IMS	K5154-12MS	VX012852.D	10/07/2019	20:40
MW-103IMSD	K5154-13MSD	VX012853.D	10/07/2019	21:04

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name:	CHEMTECH		Contract:	TRCE03	
Lab Code:	CHEM	Case No.:	K5154	SAS No.:	K5154
				SDG NO.:	K5154
Lab File ID:	VX012880.D		BFB Injection Date:	10/08/2019	
Instrument ID:	MSVOA_X		BFB Injection Time:	09:20	
GC Column:	DB-624UI	ID:	0.18	(mm)	
			Heated Purge:	Y/N	N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.6
75	30.0 - 60.0% of mass 95	50.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.2 (0.2) 1
174	50.0 - 100.0% of mass 95	66.6
175	5.0 - 9.0% of mass 174	5.2 (7.8) 1
176	95.0 - 101.0% of mass 174	65.8 (98.8) 1
177	5.0 - 9.0% of mass 176	4.1 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VX012882.D	10/08/2019	11:04
VSTDIC005	VSTDIC005	VX012883.D	10/08/2019	11:27
VSTDIC020	VSTDIC020	VX012884.D	10/08/2019	11:50
VSTDIC050	VSTDIC050	VX012885.D	10/08/2019	12:14
VSTDIC100	VSTDIC100	VX012886.D	10/08/2019	12:37
VSTDIC150	VSTDIC150	VX012887.D	10/08/2019	13:00

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name:	CHEMTECH		Contract:	TRCE03	
Lab Code:	CHEM	Case No.:	K5154	SAS No.:	K5154
				SDG NO.:	K5154
Lab File ID:	VX012903.D		BFB Injection Date:	10/08/2019	
Instrument ID:	MSVOA_X		BFB Injection Time:	20:56	
GC Column:	DB-624UI	ID:	0.18	(mm)	
			Heated Purge:	Y/N	N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.7
75	30.0 - 60.0% of mass 95	51
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	66.9
175	5.0 - 9.0% of mass 174	5.5 (8.3) 1
176	95.0 - 101.0% of mass 174	65.1 (97.3) 1
177	5.0 - 9.0% of mass 176	4.3 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX012904.D	10/08/2019	21:19
VX1008WBL02	VX1008WBL02	VX012905.D	10/08/2019	21:43
VX1008WBS02	VX1008WBS02	VX012906.D	10/08/2019	22:29
TB-10032019	K5154-20	VX012907.D	10/08/2019	23:16
MW-102S	K5154-21	VX012917.D	10/09/2019	03:08
MW-102I	K5154-22	VX012918.D	10/09/2019	03:32
MW-102D	K5154-23	VX012919.D	10/09/2019	03:55
MW-101S	K5154-24	VX012920.D	10/09/2019	04:18
MW-101I	K5154-25	VX012921.D	10/09/2019	04:42
MW-101D	K5154-26	VX012922.D	10/09/2019	05:05

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG NO.: K5154
 Lab File ID: VX012750.D Date Analyzed: 10/02/2019
 Instrument ID: MSVOA_X Time Analyzed: 10:03
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	192237	5.65	321558	6.85	283242	10.11
UPPER LIMIT	384474	6.15	643116	7.35	566484	10.61
LOWER LIMIT	96118.5	5.15	160779	6.35	141621	9.61
EPA SAMPLE NO.						
TB-10012019	161609	5.65	282936	6.85	234349	10.11
MW-106S	170440	5.65	295395	6.85	247547	10.11
MW-106I	172900	5.65	299213	6.85	247491	10.11
MW-106D	177117	5.65	305853	6.85	265209	10.11
MW-107	167904	5.65	285542	6.85	244377	10.11
VX1002WBL01	153581	5.65	266730	6.85	219958	10.11
VX1002WBS01	186478	5.65	317666	6.85	281452	10.11

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG NO.: K5154
 Lab File ID: VX012750.D Date Analyzed: 10/02/2019
 Instrument ID: MSVOA_X Time Analyzed: 10:03
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	137304	12.07				
UPPER LIMIT	274608	12.57				
LOWER LIMIT	68652	11.57				
EPA SAMPLE NO.						
TB-10012019	83475	12.07				
MW-106S	88154	12.07				
MW-106I	88891	12.07				
MW-106D	104358	12.07				
MW-107	88819	12.07				
VX1002WBL01	74054	12.07				
VX1002WBS01	127865	12.07				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG NO.: K5154
 Lab File ID: VX012776.D Date Analyzed: 10/03/2019
 Instrument ID: MSVOA_X Time Analyzed: 11:10
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	176383	5.65	292348	6.85	265136	10.11
UPPER LIMIT	352766	6.15	584696	7.35	530272	10.61
LOWER LIMIT	88191.5	5.15	146174	6.35	132568	9.61
EPA SAMPLE NO.						
FB-10012019	181174	5.65	310436	6.85	266050	10.11
VX1003WBL01	173796	5.65	300048	6.85	253851	10.10
VX1003WBS01	173237	5.65	291060	6.85	262259	10.11

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG NO.: K5154
 Lab File ID: VX012776.D Date Analyzed: 10/03/2019
 Instrument ID: MSVOA_X Time Analyzed: 11:10
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	127766	12.07				
UPPER LIMIT	255532	12.57				
LOWER LIMIT	63883	11.57				
EPA SAMPLE NO.						
FB-10012019	101592	12.07				
VX1003WBL01	98022	12.07				
VX1003WBS01	121050	12.07				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG NO.: K5154
 Lab File ID: VX012829.D Date Analyzed: 10/07/2019
 Instrument ID: MSVOA_X Time Analyzed: 11:18
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	168085	5.65	280678	6.84	251001	10.11
UPPER LIMIT	336170	6.15	561356	7.34	502002	10.61
LOWER LIMIT	84042.5	5.15	140339	6.34	125501	9.61
EPA SAMPLE NO.						
TB-10022019	186659	5.65	315453	6.85	256736	10.11
MW-103S	178368	5.65	303333	6.86	254854	10.11
MW-103I	180127	5.65	303987	6.85	253128	10.11
MW-103IMS	159185	5.65	279905	6.85	251479	10.11
MW-103IMSD	161592	5.65	287389	6.85	255931	10.11
MW-103D	184678	5.65	308170	6.86	258946	10.11
MW-105S	178950	5.65	303011	6.85	260802	10.11
MW-105I	190246	5.65	319792	6.85	270479	10.11
MW-105D	179288	5.65	304882	6.85	256094	10.11
MW-104I	180527	5.65	308875	6.85	266860	10.11
MW-104D	185304	5.65	314350	6.85	269265	10.11
VX1007WBL01	175278	5.65	298497	6.85	257116	10.11
VX1007WBS01	178137	5.65	298731	6.85	265922	10.11

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG NO.: K5154
 Lab File ID: VX012829.D Date Analyzed: 10/07/2019
 Instrument ID: MSVOA_X Time Analyzed: 11:18
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	121398	12.07				
UPPER LIMIT	242796	12.57				
LOWER LIMIT	60699	11.57				
EPA SAMPLE NO.						
TB-10022019	96767	12.07				
MW-103S	100143	12.07				
MW-103I	92431	12.07				
MW-103IMS	118310	12.07				
MW-103IMSD	121989	12.07				
MW-103D	92120	12.07				
MW-105S	102339	12.07				
MW-105I	106693	12.07				
MW-105D	100088	12.07				
MW-104I	100419	12.07				
MW-104D	111281	12.07				
VX1007WBL01	104935	12.07				
VX1007WBS01	125055	12.07				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG NO.: K5154
 Lab File ID: VX012904.D Date Analyzed: 10/08/2019
 Instrument ID: MSVOA_X Time Analyzed: 21:19
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	179601	5.65	308351	6.85	274887	10.11
UPPER LIMIT	359202	6.15	616702	7.35	549774	10.61
LOWER LIMIT	89800.5	5.15	154176	6.35	137444	9.61
EPA SAMPLE NO.						
TB-10032019	172502	5.65	288124	6.85	250506	10.11
MW-102S	185130	5.65	313697	6.85	272067	10.11
MW-102I	176857	5.65	302548	6.85	256319	10.11
MW-102D	184939	5.65	312016	6.85	264939	10.11
MW-101S	179034	5.65	304627	6.86	260699	10.11
MW-101I	181435	5.65	309487	6.85	260876	10.11
MW-101D	186076	5.65	312464	6.85	268554	10.11
VX1008WBL02	172177	5.65	292952	6.85	252335	10.11
VX1008WBS02	173633	5.65	302277	6.85	266785	10.11

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG NO.: K5154
 Lab File ID: VX012904.D Date Analyzed: 10/08/2019
 Instrument ID: MSVOA_X Time Analyzed: 21:19
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	126679	12.07				
UPPER LIMIT	253358	12.57				
LOWER LIMIT	63339.5	11.57				
EPA SAMPLE NO.						
TB-10032019	99560	12.07				
MW-102S	110227	12.07				
MW-102I	96196	12.07				
MW-102D	107112	12.07				
MW-101S	103779	12.07				
MW-101I	103756	12.07				
MW-101D	109320	12.07				
VX1008WBL02	105398	12.07				
VX1008WBS02	122898	12.07				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

QC SAMPLE DATA

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX1002WBL01	SDG No.:	K5154
Lab Sample ID:	VX1002WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012751.D	1		10/02/19 11:11	VX100219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	5.00	U	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX1002WBL01	SDG No.:	K5154
Lab Sample ID:	VX1002WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012751.D	1		10/02/19 11:11	VX100219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.3		61 - 141	107%	SPK: 50
1868-53-7	Dibromofluoromethane	56.7		69 - 133	113%	SPK: 50
2037-26-5	Toluene-d8	55.6		65 - 126	111%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.2		58 - 135	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	154000	5.65			
540-36-3	1,4-Difluorobenzene	267000	6.85			
3114-55-4	Chlorobenzene-d5	220000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	74100	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX1002WBL01	SDG No.:	K5154
Lab Sample ID:	VX1002WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012751.D	1		10/02/19 11:11	VX100219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.		Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4		Date Received:	
Client Sample ID:	VX1003WBL01		SDG No.:	K5154
Lab Sample ID:	VX1003WBL01		Matrix:	Water
Analytical Method:	SW8260		% Moisture:	100
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012777.D	1		10/03/19 12:38	VX100319

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	5.00	U	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.		Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4		Date Received:	
Client Sample ID:	VX1003WBL01		SDG No.:	K5154
Lab Sample ID:	VX1003WBL01		Matrix:	Water
Analytical Method:	SW8260		% Moisture:	100
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012777.D	1		10/03/19 12:38	VX100319

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.5		61 - 141	93%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		69 - 133	101%	SPK: 50
2037-26-5	Toluene-d8	50.8		65 - 126	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.7		58 - 135	87%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	174000	5.65			
540-36-3	1,4-Difluorobenzene	300000	6.85			
3114-55-4	Chlorobenzene-d5	254000	10.1			
3855-82-1	1,4-Dichlorobenzene-d4	98000	12.07			

Report of Analysis

Client:	TRC Companies, Inc.		Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4		Date Received:	
Client Sample ID:	VX1003WBL01		SDG No.:	K5154
Lab Sample ID:	VX1003WBL01		Matrix:	Water
Analytical Method:	SW8260		% Moisture:	100
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012777.D	1		10/03/19 12:38	VX100319

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX1007WBL01	SDG No.:	K5154
Lab Sample ID:	VX1007WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012830.D	1		10/07/19 11:57	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	5.00	U	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX1007WBL01	SDG No.:	K5154
Lab Sample ID:	VX1007WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012830.D	1		10/07/19 11:57	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.5		61 - 141	89%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		69 - 133	101%	SPK: 50
2037-26-5	Toluene-d8	51.2		65 - 126	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.5		58 - 135	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	175000	5.65			
540-36-3	1,4-Difluorobenzene	298000	6.85			
3114-55-4	Chlorobenzene-d5	257000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	105000	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX1007WBL01	SDG No.:	K5154
Lab Sample ID:	VX1007WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012830.D	1		10/07/19 11:57	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX1008WBL02	SDG No.:	K5154
Lab Sample ID:	VX1008WBL02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012905.D	1		10/08/19 21:43	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.22	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.30	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.16	1.00	ug/L
74-83-9	Bromomethane	5.00	U	2.10	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.18	1.00	ug/L
67-64-1	Acetone	5.00	U	0.90	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.65	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.17	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.20	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.30	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.31	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.12	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.17	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.13	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.14	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.85	5.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX1008WBL02	SDG No.:	K5154
Lab Sample ID:	VX1008WBL02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012905.D	1		10/08/19 21:43	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.12	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	1.40	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.14	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.15	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.080	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
100-42-5	Styrene	1.00	U	0.11	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.9		61 - 141	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		69 - 133	103%	SPK: 50
2037-26-5	Toluene-d8	52.3		65 - 126	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.8		58 - 135	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	172000	5.65			
540-36-3	1,4-Difluorobenzene	293000	6.85			
3114-55-4	Chlorobenzene-d5	252000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	105000	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX1008WBL02	SDG No.:	K5154
Lab Sample ID:	VX1008WBL02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012905.D	1		10/08/19 21:43	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX1002WBS01	SDG No.:	K5154
Lab Sample ID:	VX1002WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012752.D	1		10/02/19 11:43	VX100219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	16.2		0.22	1.00	ug/L
74-87-3	Chloromethane	16.4		0.30	1.00	ug/L
75-01-4	Vinyl Chloride	16.8		0.16	1.00	ug/L
74-83-9	Bromomethane	20.0		2.10	5.00	ug/L
75-00-3	Chloroethane	16.5		0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	17.2		0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.3		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.8		0.18	1.00	ug/L
67-64-1	Acetone	84.2		0.90	5.00	ug/L
75-15-0	Carbon Disulfide	15.6		0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.7		0.070	1.00	ug/L
79-20-9	Methyl Acetate	17.0		0.65	1.00	ug/L
75-09-2	Methylene Chloride	17.7		0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.0		0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	17.7		0.17	1.00	ug/L
110-82-7	Cyclohexane	17.3		1.20	5.00	ug/L
78-93-3	2-Butanone	83.8		0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	17.9		0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.0		0.30	1.00	ug/L
74-97-5	Bromochloromethane	18.4		0.31	1.00	ug/L
67-66-3	Chloroform	17.6		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.7		0.12	1.00	ug/L
108-87-2	Methylcyclohexane	17.8		0.17	1.00	ug/L
71-43-2	Benzene	18.6		0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.4		0.13	1.00	ug/L
79-01-6	Trichloroethene	19.2		0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.7		0.14	1.00	ug/L
75-27-4	Bromodichloromethane	17.8		0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	88.0		0.85	5.00	ug/L
108-88-3	Toluene	18.8		0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	17.5		0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	17.7		0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX1002WBS01	SDG No.:	K5154
Lab Sample ID:	VX1002WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012752.D	1		10/02/19 11:43	VX100219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	18.8		0.12	1.00	ug/L
591-78-6	2-Hexanone	87.4		1.40	5.00	ug/L
124-48-1	Dibromochloromethane	18.5		0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	18.9		0.14	1.00	ug/L
127-18-4	Tetrachloroethene	20.5		0.15	1.00	ug/L
108-90-7	Chlorobenzene	18.6		0.080	1.00	ug/L
100-41-4	Ethyl Benzene	18.7		0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	37.3		0.20	2.00	ug/L
95-47-6	o-Xylene	18.4		0.13	1.00	ug/L
100-42-5	Styrene	18.8		0.11	1.00	ug/L
75-25-2	Bromoform	17.8		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	19.0		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.4		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.1		0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.9		0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.2		0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	16.6		0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.9		0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.5		0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.3		61 - 141	91%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		69 - 133	99%	SPK: 50
2037-26-5	Toluene-d8	48.6		65 - 126	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		58 - 135	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	186000	5.65			
540-36-3	1,4-Difluorobenzene	318000	6.85			
3114-55-4	Chlorobenzene-d5	281000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	128000	12.07			

Report of Analysis

Client:	TRC Companies, Inc.		Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4		Date Received:	
Client Sample ID:	VX1002WBS01		SDG No.:	K5154
Lab Sample ID:	VX1002WBS01		Matrix:	Water
Analytical Method:	SW8260		% Moisture:	100
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012752.D	1		10/02/19 11:43	VX100219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.		Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4		Date Received:	
Client Sample ID:	VX1003WBS01		SDG No.:	K5154
Lab Sample ID:	VX1003WBS01		Matrix:	Water
Analytical Method:	SW8260		% Moisture:	100
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012778.D	1		10/03/19 13:07	VX100319

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	15.9		0.22	1.00	ug/L
74-87-3	Chloromethane	16.0		0.30	1.00	ug/L
75-01-4	Vinyl Chloride	16.3		0.16	1.00	ug/L
74-83-9	Bromomethane	19.4		2.10	5.00	ug/L
75-00-3	Chloroethane	15.3		0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	17.0		0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.7		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.2		0.18	1.00	ug/L
67-64-1	Acetone	78.7		0.90	5.00	ug/L
75-15-0	Carbon Disulfide	15.2		0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.9		0.070	1.00	ug/L
79-20-9	Methyl Acetate	17.7		0.65	1.00	ug/L
75-09-2	Methylene Chloride	17.9		0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.5		0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.1		0.17	1.00	ug/L
110-82-7	Cyclohexane	17.2		1.20	5.00	ug/L
78-93-3	2-Butanone	80.4		0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.2		0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.1		0.30	1.00	ug/L
74-97-5	Bromochloromethane	19.3		0.31	1.00	ug/L
67-66-3	Chloroform	17.9		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.5		0.12	1.00	ug/L
108-87-2	Methylcyclohexane	17.8		0.17	1.00	ug/L
71-43-2	Benzene	19.0		0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.6		0.13	1.00	ug/L
79-01-6	Trichloroethene	19.4		0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.3		0.14	1.00	ug/L
75-27-4	Bromodichloromethane	18.1		0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	88.1		0.85	5.00	ug/L
108-88-3	Toluene	19.5		0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	17.7		0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.0		0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.		Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4		Date Received:	
Client Sample ID:	VX1003WBS01		SDG No.:	K5154
Lab Sample ID:	VX1003WBS01		Matrix:	Water
Analytical Method:	SW8260		% Moisture:	100
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012778.D	1		10/03/19 13:07	VX100319

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	19.7		0.12	1.00	ug/L
591-78-6	2-Hexanone	86.4		1.40	5.00	ug/L
124-48-1	Dibromochloromethane	18.6		0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.8		0.14	1.00	ug/L
127-18-4	Tetrachloroethene	21.1		0.15	1.00	ug/L
108-90-7	Chlorobenzene	19.0		0.080	1.00	ug/L
100-41-4	Ethyl Benzene	18.7		0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	37.6		0.20	2.00	ug/L
95-47-6	o-Xylene	18.7		0.13	1.00	ug/L
100-42-5	Styrene	19.3		0.11	1.00	ug/L
75-25-2	Bromoform	17.9		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	18.9		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.3		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.7		0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.0		0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.1		0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	16.4		0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.6		0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.7		0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.0		61 - 141	90%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		69 - 133	102%	SPK: 50
2037-26-5	Toluene-d8	49.5		65 - 126	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		58 - 135	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	173000	5.65			
540-36-3	1,4-Difluorobenzene	291000	6.85			
3114-55-4	Chlorobenzene-d5	262000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	121000	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX1003WBS01	SDG No.:	K5154
Lab Sample ID:	VX1003WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012778.D	1		10/03/19 13:07	VX100319

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX1007WBS01	SDG No.:	K5154
Lab Sample ID:	VX1007WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012832.D	1		10/07/19 12:53	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	15.7		0.22	1.00	ug/L
74-87-3	Chloromethane	15.6		0.30	1.00	ug/L
75-01-4	Vinyl Chloride	16.0		0.16	1.00	ug/L
74-83-9	Bromomethane	18.8		2.10	5.00	ug/L
75-00-3	Chloroethane	16.7		0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	16.7		0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.7		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.3		0.18	1.00	ug/L
67-64-1	Acetone	81.6		0.90	5.00	ug/L
75-15-0	Carbon Disulfide	16.2		0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.0		0.070	1.00	ug/L
79-20-9	Methyl Acetate	17.9		0.65	1.00	ug/L
75-09-2	Methylene Chloride	18.1		0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.9		0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.0		0.17	1.00	ug/L
110-82-7	Cyclohexane	17.2		1.20	5.00	ug/L
78-93-3	2-Butanone	83.1		0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	17.9		0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.2		0.30	1.00	ug/L
74-97-5	Bromochloromethane	17.1		0.31	1.00	ug/L
67-66-3	Chloroform	17.9		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.5		0.12	1.00	ug/L
108-87-2	Methylcyclohexane	18.7		0.17	1.00	ug/L
71-43-2	Benzene	19.0		0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.4		0.13	1.00	ug/L
79-01-6	Trichloroethene	19.8		0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.1		0.14	1.00	ug/L
75-27-4	Bromodichloromethane	18.7		0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	89.0		0.85	5.00	ug/L
108-88-3	Toluene	19.1		0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	18.6		0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.9		0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX1007WBS01	SDG No.:	K5154
Lab Sample ID:	VX1007WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012832.D	1		10/07/19 12:53	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	19.8		0.12	1.00	ug/L
591-78-6	2-Hexanone	88.6		1.40	5.00	ug/L
124-48-1	Dibromochloromethane	20.3		0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.6		0.14	1.00	ug/L
127-18-4	Tetrachloroethene	21.7		0.15	1.00	ug/L
108-90-7	Chlorobenzene	19.5		0.080	1.00	ug/L
100-41-4	Ethyl Benzene	19.4		0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	38.7		0.20	2.00	ug/L
95-47-6	o-Xylene	19.6		0.13	1.00	ug/L
100-42-5	Styrene	19.9		0.11	1.00	ug/L
75-25-2	Bromoform	19.6		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	19.2		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	17.9		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.5		0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.4		0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.6		0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	17.1		0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.5		0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.2		0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.8		61 - 141	90%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		69 - 133	104%	SPK: 50
2037-26-5	Toluene-d8	50.2		65 - 126	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.8		58 - 135	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	178000	5.65			
540-36-3	1,4-Difluorobenzene	299000	6.85			
3114-55-4	Chlorobenzene-d5	266000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	125000	12.07			

Report of Analysis

Client:	TRC Companies, Inc.		Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4		Date Received:	
Client Sample ID:	VX1007WBS01		SDG No.:	K5154
Lab Sample ID:	VX1007WBS01		Matrix:	Water
Analytical Method:	SW8260		% Moisture:	100
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012832.D	1		10/07/19 12:53	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX1008WBS02	SDG No.:	K5154
Lab Sample ID:	VX1008WBS02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012906.D	1		10/08/19 22:29	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.4		0.22	1.00	ug/L
74-87-3	Chloromethane	20.6		0.30	1.00	ug/L
75-01-4	Vinyl Chloride	20.0		0.16	1.00	ug/L
74-83-9	Bromomethane	24.7		2.10	5.00	ug/L
75-00-3	Chloroethane	20.4		0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.3		0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.7		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.8		0.18	1.00	ug/L
67-64-1	Acetone	84.7		0.90	5.00	ug/L
75-15-0	Carbon Disulfide	18.4		0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	21.0		0.070	1.00	ug/L
79-20-9	Methyl Acetate	20.9		0.65	1.00	ug/L
75-09-2	Methylene Chloride	19.2		0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	20.5		0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.6		0.17	1.00	ug/L
110-82-7	Cyclohexane	20.0		1.20	5.00	ug/L
78-93-3	2-Butanone	98.0		0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.2		0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.1		0.30	1.00	ug/L
74-97-5	Bromochloromethane	22.9		0.31	1.00	ug/L
67-66-3	Chloroform	20.2		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.7		0.12	1.00	ug/L
108-87-2	Methylcyclohexane	19.1		0.17	1.00	ug/L
71-43-2	Benzene	20.3		0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.9		0.13	1.00	ug/L
79-01-6	Trichloroethene	18.9		0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.5		0.14	1.00	ug/L
75-27-4	Bromodichloromethane	19.5		0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.85	5.00	ug/L
108-88-3	Toluene	19.6		0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	18.4		0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.8		0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX1008WBS02	SDG No.:	K5154
Lab Sample ID:	VX1008WBS02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012906.D	1		10/08/19 22:29	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	19.6		0.12	1.00	ug/L
591-78-6	2-Hexanone	98.0		1.40	5.00	ug/L
124-48-1	Dibromochloromethane	18.2		0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.8		0.14	1.00	ug/L
127-18-4	Tetrachloroethene	20.5		0.15	1.00	ug/L
108-90-7	Chlorobenzene	19.7		0.080	1.00	ug/L
100-41-4	Ethyl Benzene	20.3		0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	40.3		0.20	2.00	ug/L
95-47-6	o-Xylene	20.1		0.13	1.00	ug/L
100-42-5	Styrene	20.1		0.11	1.00	ug/L
75-25-2	Bromoform	18.0		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	20.4		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.1		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.5		0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.1		0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.9		0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.1		0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.4		0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.5		0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.3		61 - 141	107%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		69 - 133	106%	SPK: 50
2037-26-5	Toluene-d8	52.1		65 - 126	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.2		58 - 135	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	174000	5.65			
540-36-3	1,4-Difluorobenzene	302000	6.85			
3114-55-4	Chlorobenzene-d5	267000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	123000	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX1008WBS02	SDG No.:	K5154
Lab Sample ID:	VX1008WBS02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012906.D	1		10/08/19 22:29	VX100819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103IMS	SDG No.:	K5154
Lab Sample ID:	K5154-12MS	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012852.D	1		10/07/19 20:40	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	33.1		0.22	1.00	ug/L
74-87-3	Chloromethane	37.0		0.30	1.00	ug/L
75-01-4	Vinyl Chloride	42.5		0.16	1.00	ug/L
74-83-9	Bromomethane	30.8		2.10	5.00	ug/L
75-00-3	Chloroethane	47.2		0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	39.9		0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	40.4		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	45.6		0.18	1.00	ug/L
67-64-1	Acetone	200		0.90	5.00	ug/L
75-15-0	Carbon Disulfide	40.6		0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	50.3		0.070	1.00	ug/L
79-20-9	Methyl Acetate	46.1		0.65	1.00	ug/L
75-09-2	Methylene Chloride	47.3		0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	45.6		0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	53.7		0.17	1.00	ug/L
110-82-7	Cyclohexane	39.5		1.20	5.00	ug/L
78-93-3	2-Butanone	230		0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	42.8		0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	52.2		0.30	1.00	ug/L
74-97-5	Bromochloromethane	50.4		0.31	1.00	ug/L
67-66-3	Chloroform	47.6		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	45.5		0.12	1.00	ug/L
108-87-2	Methylcyclohexane	39.8		0.17	1.00	ug/L
71-43-2	Benzene	48.1		0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	47.6		0.13	1.00	ug/L
79-01-6	Trichloroethene	47.2		0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	50.2		0.14	1.00	ug/L
75-27-4	Bromodichloromethane	49.1		0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	250		0.85	5.00	ug/L
108-88-3	Toluene	48.4		0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	48.4		0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	48.3		0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103IMS	SDG No.:	K5154
Lab Sample ID:	K5154-12MS	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012852.D	1		10/07/19 20:40	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	52.4		0.12	1.00	ug/L
591-78-6	2-Hexanone	250		1.40	5.00	ug/L
124-48-1	Dibromochloromethane	53.0		0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	51.5		0.14	1.00	ug/L
127-18-4	Tetrachloroethene	43.2		0.15	1.00	ug/L
108-90-7	Chlorobenzene	48.8		0.080	1.00	ug/L
100-41-4	Ethyl Benzene	48.2		0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	96.1		0.20	2.00	ug/L
95-47-6	o-Xylene	49.7		0.13	1.00	ug/L
100-42-5	Styrene	51.6		0.11	1.00	ug/L
75-25-2	Bromoform	53.9		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	46.3		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	53.1		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	50.3		0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	49.3		0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	49.9		0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	50.2		0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	52.4		0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	52.0		0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.1		61 - 141	96%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		69 - 133	104%	SPK: 50
2037-26-5	Toluene-d8	50.0		65 - 126	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.3		58 - 135	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	159000	5.65			
540-36-3	1,4-Difluorobenzene	280000	6.85			
3114-55-4	Chlorobenzene-d5	251000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	118000	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103IMS	SDG No.:	K5154
Lab Sample ID:	K5154-12MS	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012852.D	1		10/07/19 20:40	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103IMSD	SDG No.:	K5154
Lab Sample ID:	K5154-13MSD	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012853.D	1		10/07/19 21:04	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	35.6		0.22	1.00	ug/L
74-87-3	Chloromethane	38.2		0.30	1.00	ug/L
75-01-4	Vinyl Chloride	45.2		0.16	1.00	ug/L
74-83-9	Bromomethane	30.7		2.10	5.00	ug/L
75-00-3	Chloroethane	53.8		0.34	1.00	ug/L
75-69-4	Trichlorofluoromethane	42.7		0.16	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	42.8		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	47.9		0.18	1.00	ug/L
67-64-1	Acetone	200		0.90	5.00	ug/L
75-15-0	Carbon Disulfide	43.7		0.23	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	50.3		0.070	1.00	ug/L
79-20-9	Methyl Acetate	47.9		0.65	1.00	ug/L
75-09-2	Methylene Chloride	47.9		0.33	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	46.8		0.24	1.00	ug/L
75-34-3	1,1-Dichloroethane	54.8		0.17	1.00	ug/L
110-82-7	Cyclohexane	42.9		1.20	5.00	ug/L
78-93-3	2-Butanone	230		0.71	5.00	ug/L
56-23-5	Carbon Tetrachloride	45.0		0.22	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	51.9		0.30	1.00	ug/L
74-97-5	Bromochloromethane	47.9		0.31	1.00	ug/L
67-66-3	Chloroform	47.5		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	46.7		0.12	1.00	ug/L
108-87-2	Methylcyclohexane	40.6		0.17	1.00	ug/L
71-43-2	Benzene	48.3		0.10	1.00	ug/L
107-06-2	1,2-Dichloroethane	46.4		0.13	1.00	ug/L
79-01-6	Trichloroethene	47.0		0.27	1.00	ug/L
78-87-5	1,2-Dichloropropane	49.6		0.14	1.00	ug/L
75-27-4	Bromodichloromethane	49.1		0.10	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	240		0.85	5.00	ug/L
108-88-3	Toluene	49.1		0.12	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	48.8		0.19	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	48.5		0.16	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103IMSD	SDG No.:	K5154
Lab Sample ID:	K5154-13MSD	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012853.D	1		10/07/19 21:04	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	50.8		0.12	1.00	ug/L
591-78-6	2-Hexanone	250		1.40	5.00	ug/L
124-48-1	Dibromochloromethane	51.2		0.16	1.00	ug/L
106-93-4	1,2-Dibromoethane	51.1		0.14	1.00	ug/L
127-18-4	Tetrachloroethene	44.9		0.15	1.00	ug/L
108-90-7	Chlorobenzene	49.6		0.080	1.00	ug/L
100-41-4	Ethyl Benzene	49.1		0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	98.0		0.20	2.00	ug/L
95-47-6	o-Xylene	49.3		0.13	1.00	ug/L
100-42-5	Styrene	51.8		0.11	1.00	ug/L
75-25-2	Bromoform	55.5		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	47.0		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	51.4		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	49.5		0.14	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	48.9		0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	48.8		0.12	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	48.6		0.54	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	50.0		0.24	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	50.6		0.26	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.7		61 - 141	97%	SPK: 50
1868-53-7	Dibromofluoromethane	53.0		69 - 133	106%	SPK: 50
2037-26-5	Toluene-d8	51.1		65 - 126	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		58 - 135	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	162000	5.65			
540-36-3	1,4-Difluorobenzene	287000	6.85			
3114-55-4	Chlorobenzene-d5	256000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	122000	12.07			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103IMSD	SDG No.:	K5154
Lab Sample ID:	K5154-13MSD	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX012853.D	1		10/07/19 21:04	VX100719

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: MSVOA_X Calibration Date(s): 09/23/2019 09/23/2019
 Heated Purge: (Y/N) N Calibration Time(s): 10:09 12:05
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX012594.D		RRF005 = VX012595.D		RRF020 = VX012596.D		
		RRF050 = VX012597.D		RRF100 = VX012598.D		RRF150 = VX012599.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Dichlorodifluoromethane	0.640	0.574	0.543	0.527	0.544	0.546	0.562	7.3
Chloromethane	0.742	0.642	0.642	0.609	0.608	0.633	0.646	7.7
Vinyl Chloride	0.659	0.643	0.632	0.612	0.650	0.656	0.642	2.8
Bromomethane		0.247	0.294	0.221	0.239	0.261	0.252	10.8
Chloroethane	0.463	0.509	0.418	0.389	0.385		0.433	12.2
Trichlorofluoromethane	0.982	0.922	0.884	0.849	0.883	0.889	0.901	5.1
1,1,2-Trichlorotrifluoroethane	0.581	0.564	0.541	0.525	0.537	0.547	0.549	3.7
1,1-Dichloroethene	0.497	0.546	0.546	0.535	0.550	0.551	0.538	3.8
Acetone	0.388	0.375	0.425	0.383	0.378	0.365	0.386	5.3
Carbon Disulfide	1.567	1.427	1.477	1.444	1.545	1.582	1.507	4.4
Methyl tert-butyl Ether	2.050	2.009	2.052	1.985	2.046	2.067	2.035	1.5
Methyl Acetate	1.004	0.895	0.906	0.861	0.892	0.890	0.908	5.4
Methylene Chloride	0.754	0.647	0.632	0.612	0.633	0.636	0.652	7.8
trans-1,2-Dichloroethene	0.623	0.593	0.585	0.573	0.600	0.599	0.596	2.8
1,1-Dichloroethane	1.172	1.107	1.101	1.091	1.124	1.126	1.120	2.5
Cyclohexane		1.036	1.021	0.978	1.005	1.027	1.013	2.3
2-Butanone	0.545	0.542	0.568	0.544	0.559	0.560	0.553	1.9
Carbon Tetrachloride	0.493	0.483	0.489	0.473	0.497	0.504	0.490	2.2
cis-1,2-Dichloroethene	0.761	0.648	0.686	0.668	0.689	0.694	0.691	5.6
Bromochloromethane	0.449	0.433	0.399	0.397	0.384	0.378	0.407	6.9
Chloroform	1.250	1.151	1.135	1.080	1.126	1.134	1.146	4.9
1,1,1-Trichloroethane	1.032	1.006	1.023	0.988	1.021	1.025	1.016	1.6
Methylcyclohexane	0.645	0.567	0.571	0.543	0.571	0.585	0.580	6
Benzene	1.526	1.398	1.411	1.350	1.401	1.422	1.418	4.1
1,2-Dichloroethane	0.563	0.538	0.545	0.514	0.533	0.539	0.538	3
Trichloroethene	0.385	0.362	0.362	0.341	0.358	0.367	0.363	4
1,2-Dichloropropane	0.380	0.345	0.372	0.345	0.364	0.373	0.363	4.1
Bromodichloromethane	0.495	0.462	0.493	0.480	0.513	0.521	0.494	4.3
4-Methyl-2-Pentanone	0.572	0.563	0.587	0.561	0.601	0.606	0.582	3.3
Toluene	0.935	0.872	0.896	0.852	0.890	0.903	0.891	3.1
t-1,3-Dichloropropene	0.510	0.479	0.546	0.538	0.593	0.614	0.547	9.2
cis-1,3-Dichloropropene	0.577	0.560	0.594	0.584	0.627	0.639	0.597	5
1,1,2-Trichloroethane	0.359	0.349	0.356	0.339	0.357	0.366	0.354	2.6

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: MSVOA_X Calibration Date(s): 09/23/2019 09/23/2019
 Heated Purge: (Y/N) N Calibration Time(s): 10:09 12:05
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:	RRF001 = VX012594.D	RRF005 = VX012595.D	RRF020 = VX012596.D	RRF050 = VX012597.D	RRF100 = VX012598.D	RRF150 = VX012599.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
2-Hexanone	0.404	0.423	0.460	0.443	0.475	0.465	0.445	6.1
Dibromochloromethane	0.326	0.307	0.360	0.359	0.390	0.409	0.359	10.6
1,2-Dibromoethane	0.360	0.351	0.374	0.359	0.379	0.390	0.369	3.9
Tetrachloroethene	0.400	0.353	0.352	0.331	0.333	0.322	0.349	8.1
Chlorobenzene	1.146	1.049	1.032	1.005	1.035	1.050	1.053	4.6
Ethyl Benzene	1.969	1.894	1.910	1.853	1.906	1.926	1.910	2
m/p-Xylenes	0.760	0.706	0.703	0.696	0.709	0.717	0.715	3.2
o-Xylene	0.703	0.698	0.688	0.671	0.690	0.704	0.692	1.8
Styrene	1.050	1.120	1.152	1.159	1.235	1.247	1.160	6.3
Bromoform	0.220	0.226	0.258	0.268	0.307	0.315	0.266	15
Isopropylbenzene	4.401	4.203	4.096	3.883	3.906	3.945	4.072	5
1,1,2,2-Tetrachloroethane	1.423	1.391	1.328	1.297	1.334	1.319	1.349	3.6
1,3-Dichlorobenzene	1.678	1.680	1.659	1.594	1.673	1.668	1.659	2
1,4-Dichlorobenzene	1.789	1.645	1.677	1.606	1.681	1.659	1.676	3.7
1,2-Dichlorobenzene	1.784	1.673	1.659	1.605	1.629	1.612	1.661	4
1,2-Dibromo-3-Chloropropane	0.331	0.326	0.329	0.347	0.338	0.353	0.337	3.2
1,2,4-Trichlorobenzene	1.047	0.961	0.980	0.994	1.029	1.064	1.013	4
1,2,3-Trichlorobenzene	1.029	0.985	1.002	1.015	1.016	1.039	1.014	1.9
1,2-Dichloroethane-d4		0.778	0.697	0.699	0.726	0.740	0.728	4.6
Dibromofluoromethane		0.291	0.288	0.287	0.308	0.315	0.298	4.2
Toluene-d8		1.198	1.098	1.090	1.155	1.192	1.147	4.4
4-Bromofluorobenzene		0.441	0.422	0.425	0.474	0.492	0.451	6.9

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: MSVOA_X Calibration Date(s): 10/08/2019 10/08/2019
 Heated Purge: (Y/N) N Calibration Time(s): 11:04 13:00
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX012882.D		RRF005 = VX012883.D		RRF020 = VX012884.D		
		RRF050 = VX012885.D		RRF100 = VX012886.D		RRF150 = VX012887.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Dichlorodifluoromethane	0.453	0.514	0.470	0.549	0.538	0.535	0.510	7.7
Chloromethane	0.577	0.573	0.497	0.568	0.557	0.555	0.555	5.4
Vinyl Chloride	0.558	0.588	0.512	0.586	0.595	0.596	0.573	5.7
Bromomethane		0.252	0.255	0.223	0.230	0.231	0.238	6
Chloroethane	0.263	0.406	0.308	0.357	0.350		0.337	16
Trichlorofluoromethane	0.733	0.799	0.689	0.802	0.811	0.801	0.773	6.4
1,1,2-Trichlorotrifluoroethane	0.478	0.538	0.439	0.515	0.517	0.513	0.500	7.1
1,1-Dichloroethene	0.505	0.516	0.445	0.524	0.522	0.519	0.505	5.9
Acetone	0.322	0.352	0.319	0.345	0.325	0.313	0.329	4.7
Carbon Disulfide	1.730	1.336	1.196	1.428	1.472	1.482	1.441	12.3
Methyl tert-butyl Ether	1.500	1.824	1.605	1.842	1.848	1.851	1.745	8.8
Methyl Acetate	0.804	0.838	0.679	0.791	0.790	0.782	0.781	6.8
Methylene Chloride	0.710	0.617	0.524	0.598	0.594	0.589	0.605	10
trans-1,2-Dichloroethene	0.543	0.558	0.475	0.555	0.558	0.560	0.542	6.1
1,1-Dichloroethane	0.901	0.993	0.885	1.012	1.009	1.020	0.970	6.2
Cyclohexane		0.944	0.802	0.934	0.925	0.931	0.907	6.5
2-Butanone	0.395	0.489	0.421	0.483	0.477	0.477	0.457	8.5
Carbon Tetrachloride	0.378	0.420	0.376	0.461	0.470	0.463	0.428	10.1
cis-1,2-Dichloroethene	0.645	0.626	0.547	0.645	0.643	0.640	0.624	6.2
Bromochloromethane	0.199	0.315	0.267	0.313	0.286	0.287	0.278	15.4
Chloroform	1.027	1.032	0.879	1.015	1.012	1.007	0.995	5.8
1,1,1-Trichloroethane	0.709	0.859	0.769	0.899	0.909	0.915	0.843	10.1
Methylcyclohexane	0.467	0.555	0.469	0.575	0.571	0.563	0.533	9.6
Benzene	1.148	1.367	1.184	1.371	1.372	1.347	1.298	8
1,2-Dichloroethane	0.430	0.481	0.422	0.494	0.490	0.478	0.466	6.7
Trichloroethene	0.415	0.369	0.299	0.362	0.362	0.353	0.360	10.4
1,2-Dichloropropane	0.293	0.349	0.299	0.350	0.350	0.343	0.331	8.2
Bromodichloromethane	0.368	0.403	0.387	0.468	0.477	0.478	0.430	11.6
4-Methyl-2-Pentanone	0.391	0.522	0.445	0.528	0.539	0.526	0.492	12.2
Toluene	0.763	0.869	0.749	0.863	0.880	0.859	0.831	7
t-1,3-Dichloropropene	0.372	0.428	0.424	0.528	0.552	0.554	0.476	16.3
cis-1,3-Dichloropropene	0.423	0.527	0.469	0.578	0.591	0.586	0.529	13.2
1,1,2-Trichloroethane	0.313	0.331	0.296	0.343	0.345	0.343	0.329	6.1

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: MSVOA_X Calibration Date(s): 10/08/2019 10/08/2019
 Heated Purge: (Y/N) N Calibration Time(s): 11:04 13:00
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:	RRF001 = VX012882.D	RRF005 = VX012883.D	RRF020 = VX012884.D					
	RRF050 = VX012885.D	RRF100 = VX012886.D	RRF150 = VX012887.D					
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
2-Hexanone	0.310	0.402	0.347	0.413	0.420	0.406	0.383	11.6
Dibromochloromethane	0.237	0.290	0.288	0.365	0.379	0.374	0.322	18.2
1,2-Dibromoethane	0.311	0.355	0.303	0.363	0.375	0.367	0.346	8.8
Tetrachloroethene	0.368	0.359	0.322	0.361	0.346	0.325	0.347	5.6
Chlorobenzene	1.007	1.036	0.867	1.022	1.024	1.002	0.993	6.3
Ethyl Benzene	1.599	1.833	1.573	1.878	1.879	1.821	1.764	7.9
m/p-Xylenes	0.591	0.680	0.593	0.702	0.704	0.684	0.659	8
o-Xylene	0.566	0.666	0.581	0.682	0.687	0.672	0.643	8.4
Styrene	0.880	1.108	0.972	1.185	1.213	1.195	1.092	12.5
Bromoform	0.173	0.213	0.210	0.281	0.304	0.308	0.248	23
Isopropylbenzene	3.457	3.949	3.388	3.900	3.720	3.643	3.676	6.2
1,1,2,2-Tetrachloroethane	1.195	1.345	1.099	1.256	1.238	1.203	1.223	6.6
1,3-Dichlorobenzene	1.647	1.651	1.421	1.673	1.640	1.620	1.609	5.8
1,4-Dichlorobenzene	1.820	1.660	1.399	1.647	1.627	1.622	1.629	8.3
1,2-Dichlorobenzene	1.591	1.714	1.387	1.641	1.596	1.533	1.577	7
1,2-Dibromo-3-Chloropropane	0.239	0.297	0.251	0.320	0.305	0.308	0.287	11.7
1,2,4-Trichlorobenzene	1.091	0.904	0.828	1.059	1.004	1.041	0.988	10.3
1,2,3-Trichlorobenzene	1.151	1.016	0.874	1.067	0.993	1.023	1.021	8.9
1,2-Dichloroethane-d4		0.659	0.538	0.639	0.642	0.646	0.625	7.9
Dibromofluoromethane		0.293	0.241	0.296	0.305	0.300	0.287	9.2
Toluene-d8		1.176	0.950	1.140	1.185	1.146	1.119	8.6
4-Bromofluorobenzene		0.434	0.361	0.444	0.474	0.461	0.435	10.2

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: MSVOA_X Calibration Date/Time: 10/02/2019 10:03
 Lab File ID: VX012750.D Init. Calib. Date(s): 09/23/2019 09/23/2019
 Heated Purge: (Y/N) N Init. Calib. Time(s): 10:09 12:05
 GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.562	0.491		-12.63	20
Chloromethane	0.646	0.558	0.1	-13.62	20
Vinyl Chloride	0.642	0.567		-11.68	20
Bromomethane	0.252	0.205		-18.65	20
Chloroethane	0.433	0.363		-16.17	20
Trichlorofluoromethane	0.901	0.823		-8.66	20
1,1,2-Trichlorotrifluoroethane	0.549	0.531		-3.28	20
1,1-Dichloroethene	0.538	0.508		-5.58	20
Acetone	0.386	0.408		5.7	20
Carbon Disulfide	1.507	1.285		-14.73	20
Methyl tert-butyl Ether	2.035	1.874		-7.91	20
Methyl Acetate	0.908	0.789		-13.11	20
Methylene Chloride	0.652	0.592		-9.2	20
trans-1,2-Dichloroethene	0.596	0.547		-8.22	20
1,1-Dichloroethane	1.120	1.031	0.1	-7.95	20
Cyclohexane	1.013	0.929		-8.29	20
2-Butanone	0.553	0.516		-6.69	20
Carbon Tetrachloride	0.490	0.478		-2.45	20
cis-1,2-Dichloroethene	0.691	0.634		-8.25	20
Bromochloromethane	0.407	0.367		-9.83	20
Chloroform	1.146	1.040		-9.25	20
1,1,1-Trichloroethane	1.016	0.926		-8.86	20
Methylcyclohexane	0.580	0.569		-1.9	20
Benzene	1.418	1.385		-2.33	20
1,2-Dichloroethane	0.538	0.513		-4.65	20
Trichloroethene	0.363	0.360		-0.83	20
1,2-Dichloropropane	0.363	0.357		-1.65	20
Bromodichloromethane	0.494	0.486		-1.62	20
4-Methyl-2-Pentanone	0.582	0.538		-7.56	20
Toluene	0.891	0.886		-0.56	20
t-1,3-Dichloropropene	0.547	0.547		0	20
cis-1,3-Dichloropropene	0.597	0.593		-0.67	20
1,1,2-Trichloroethane	0.354	0.353		-0.28	20
2-Hexanone	0.445	0.435		-2.25	20
Dibromochloromethane	0.359	0.370		3.06	20
1,2-Dibromoethane	0.369	0.367		-0.54	20
Tetrachloroethene	0.349	0.382		9.46	20
Chlorobenzene	1.053	1.048	0.3	-0.47	20
Ethyl Benzene	1.910	1.928		0.94	20

All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154

Instrument ID: MSVOA_X Calibration Date/Time: 10/02/2019 10:03

Lab File ID: VX012750.D Init. Calib. Date(s): 09/23/2019 09/23/2019

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:09 12:05

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.715	0.729		1.96	20
o-Xylene	0.692	0.702		1.45	20
Styrene	1.160	1.226		5.69	20
Bromoform	0.266	0.284	0.1	6.77	20
Isopropylbenzene	4.072	3.938		-3.29	20
1,1,2,2-Tetrachloroethane	1.349	1.288	0.3	-4.52	20
1,3-Dichlorobenzene	1.659	1.674		0.9	20
1,4-Dichlorobenzene	1.676	1.676		0	20
1,2-Dichlorobenzene	1.661	1.660		-0.06	20
1,2-Dibromo-3-Chloropropane	0.337	0.315		-6.53	20
1,2,4-Trichlorobenzene	1.013	1.037		2.37	20
1,2,3-Trichlorobenzene	1.014	1.049		3.45	20
1,2-Dichloroethane-d4	0.728	0.626		-14.01	20
Dibromofluoromethane	0.298	0.287		-3.69	20
Toluene-d8	1.147	1.080		-5.84	20
4-Bromofluorobenzene	0.451	0.424		-5.99	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: MSVOA_X Calibration Date/Time: 10/03/2019 11:10
 Lab File ID: VX012776.D Init. Calib. Date(s): 09/23/2019 09/23/2019
 Heated Purge: (Y/N) N Init. Calib. Time(s): 10:09 12:05
 GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.562	0.527		-6.23	20
Chloromethane	0.646	0.551	0.1	-14.71	20
Vinyl Chloride	0.642	0.607		-5.45	20
Bromomethane	0.252	0.205		-18.65	20
Chloroethane	0.433	0.384		-11.32	20
Trichlorofluoromethane	0.901	0.911		1.11	20
1,1,2-Trichlorotrifluoroethane	0.549	0.597		8.74	20
1,1-Dichloroethene	0.538	0.565		5.02	20
Acetone	0.386	0.394		2.07	20
Carbon Disulfide	1.507	1.401		-7.03	20
Methyl tert-butyl Ether	2.035	2.063		1.38	20
Methyl Acetate	0.908	0.881		-2.97	20
Methylene Chloride	0.652	0.650		-0.31	20
trans-1,2-Dichloroethene	0.596	0.616		3.36	20
1,1-Dichloroethane	1.120	1.138	0.1	1.61	20
Cyclohexane	1.013	1.027		1.38	20
2-Butanone	0.553	0.529		-4.34	20
Carbon Tetrachloride	0.490	0.533		8.78	20
cis-1,2-Dichloroethene	0.691	0.707		2.32	20
Bromochloromethane	0.407	0.398		-2.21	20
Chloroform	1.146	1.161		1.31	20
1,1,1-Trichloroethane	1.016	1.032		1.58	20
Methylcyclohexane	0.580	0.649		11.9	20
Benzene	1.418	1.541		8.67	20
1,2-Dichloroethane	0.538	0.571		6.13	20
Trichloroethene	0.363	0.410		12.95	20
1,2-Dichloropropane	0.363	0.404		11.3	20
Bromodichloromethane	0.494	0.541		9.51	20
4-Methyl-2-Pentanone	0.582	0.590		1.38	20
Toluene	0.891	0.987		10.77	20
t-1,3-Dichloropropene	0.547	0.610		11.52	20
cis-1,3-Dichloropropene	0.597	0.668		11.89	20
1,1,2-Trichloroethane	0.354	0.396		11.86	20
2-Hexanone	0.445	0.464		4.27	20
Dibromochloromethane	0.359	0.420		16.99	20
1,2-Dibromoethane	0.369	0.418		13.28	20
Tetrachloroethene	0.349	0.410		17.48	20
Chlorobenzene	1.053	1.150	0.3	9.21	20
Ethyl Benzene	1.910	2.099		9.9	20

All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: MSVOA_X Calibration Date/Time: 10/03/2019 11:10
 Lab File ID: VX012776.D Init. Calib. Date(s): 09/23/2019 09/23/2019
 Heated Purge: (Y/N) N Init. Calib. Time(s): 10:09 12:05
 GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.715	0.796		11.33	20
o-Xylene	0.692	0.770		11.27	20
Styrene	1.160	1.346		16.03	20
Bromoform	0.266	0.310	0.1	16.54	20
Isopropylbenzene	4.072	4.335		6.46	20
1,1,2,2-Tetrachloroethane	1.349	1.436	0.3	6.45	20
1,3-Dichlorobenzene	1.659	1.863		12.3	20
1,4-Dichlorobenzene	1.676	1.868		11.46	20
1,2-Dichlorobenzene	1.661	1.839		10.72	20
1,2-Dibromo-3-Chloropropane	0.337	0.342		1.48	20
1,2,4-Trichlorobenzene	1.013	1.210		19.45	20
1,2,3-Trichlorobenzene	1.014	1.193		17.65	20
1,2-Dichloroethane-d4	0.728	0.688		-5.49	20
Dibromofluoromethane	0.298	0.319		7.05	20
Toluene-d8	1.147	1.214		5.84	20
4-Bromofluorobenzene	0.451	0.481		6.65	20

All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: MSVOA_X Calibration Date/Time: 10/07/2019 11:18
 Lab File ID: VX012829.D Init. Calib. Date(s): 09/23/2019 09/23/2019
 Heated Purge: (Y/N) N Init. Calib. Time(s): 10:09 12:05
 GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.562	0.489		-12.99	20
Chloromethane	0.646	0.541	0.1	-16.25	20
Vinyl Chloride	0.642	0.579		-9.81	20
Bromomethane	0.252	0.224		-11.11	20
Chloroethane	0.433	0.365		-15.7	20
Trichlorofluoromethane	0.901	0.877		-2.66	20
1,1,2-Trichlorotrifluoroethane	0.549	0.586		6.74	20
1,1-Dichloroethene	0.538	0.552		2.6	20
Acetone	0.386	0.387		0.26	20
Carbon Disulfide	1.507	1.408		-6.57	20
Methyl tert-butyl Ether	2.035	2.093		2.85	20
Methyl Acetate	0.908	0.879		-3.19	20
Methylene Chloride	0.652	0.646		-0.92	20
trans-1,2-Dichloroethene	0.596	0.603		1.17	20
1,1-Dichloroethane	1.120	1.140	0.1	1.79	20
Cyclohexane	1.013	1.000		-1.28	20
2-Butanone	0.553	0.525		-5.06	20
Carbon Tetrachloride	0.490	0.523		6.74	20
cis-1,2-Dichloroethene	0.691	0.712		3.04	20
Bromochloromethane	0.407	0.380		-6.63	20
Chloroform	1.146	1.153		0.61	20
1,1,1-Trichloroethane	1.016	1.023		0.69	20
Methylcyclohexane	0.580	0.636		9.65	20
Benzene	1.418	1.518		7.05	20
1,2-Dichloroethane	0.538	0.558		3.72	20
Trichloroethene	0.363	0.411		13.22	20
1,2-Dichloropropane	0.363	0.396		9.09	20
Bromodichloromethane	0.494	0.539		9.11	20
4-Methyl-2-Pentanone	0.582	0.580		-0.34	20
Toluene	0.891	0.974		9.31	20
t-1,3-Dichloropropene	0.547	0.615		12.43	20
cis-1,3-Dichloropropene	0.597	0.663		11.06	20
1,1,2-Trichloroethane	0.354	0.396		11.86	20
2-Hexanone	0.445	0.459		3.15	20
Dibromochloromethane	0.359	0.425		18.38	20
1,2-Dibromoethane	0.369	0.414		12.19	20
Tetrachloroethene	0.349	0.410		17.48	20
Chlorobenzene	1.053	1.152	0.3	9.4	20
Ethyl Benzene	1.910	2.110		10.47	20

All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: MSVOA_X Calibration Date/Time: 10/07/2019 11:18
 Lab File ID: VX012829.D Init. Calib. Date(s): 09/23/2019 09/23/2019
 Heated Purge: (Y/N) N Init. Calib. Time(s): 10:09 12:05
 GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.715	0.800		11.89	20
o-Xylene	0.692	0.780		12.72	20
Styrene	1.160	1.347		16.12	20
Bromoform	0.266	0.328	0.1	23.31	20
Isopropylbenzene	4.072	4.292		5.4	20
1,1,2,2-Tetrachloroethane	1.349	1.392	0.3	3.19	20
1,3-Dichlorobenzene	1.659	1.886		13.68	20
1,4-Dichlorobenzene	1.676	1.867		11.4	20
1,2-Dichlorobenzene	1.661	1.829		10.11	20
1,2-Dibromo-3-Chloropropane	0.337	0.338		0.3	20
1,2,4-Trichlorobenzene	1.013	1.225		20.93	20
1,2,3-Trichlorobenzene	1.014	1.201		18.44	20
1,2-Dichloroethane-d4	0.728	0.632		-13.19	20
Dibromofluoromethane	0.298	0.298		0	20
Toluene-d8	1.147	1.136		-1.05	20
4-Bromofluorobenzene	0.451	0.452		0.22	20

All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: MSVOA_X Calibration Date/Time: 10/08/2019 21:19
 Lab File ID: VX012904.D Init. Calib. Date(s): 10/08/2019 10/08/2019
 Heated Purge: (Y/N) N Init. Calib. Time(s): 11:04 13:00
 GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.510	0.539		5.69	20
Chloromethane	0.555	0.569	0.1	2.52	20
Vinyl Chloride	0.573	0.585		2.09	20
Bromomethane	0.238	0.224		-5.88	20
Chloroethane	0.337	0.374		10.98	20
Trichlorofluoromethane	0.773	0.795		2.85	20
1,1,2-Trichlorotrifluoroethane	0.500	0.514		2.8	20
1,1-Dichloroethene	0.505	0.521		3.17	20
Acetone	0.329	0.291		-11.55	20
Carbon Disulfide	1.441	1.409		-2.22	20
Methyl tert-butyl Ether	1.745	1.878		7.62	20
Methyl Acetate	0.781	0.801		2.56	20
Methylene Chloride	0.605	0.588		-2.81	20
trans-1,2-Dichloroethene	0.542	0.558		2.95	20
1,1-Dichloroethane	0.970	1.025	0.1	5.67	20
Cyclohexane	0.907	0.948		4.52	20
2-Butanone	0.457	0.474		3.72	20
Carbon Tetrachloride	0.428	0.446		4.21	20
cis-1,2-Dichloroethene	0.624	0.635		1.76	20
Bromochloromethane	0.278	0.312		12.23	20
Chloroform	0.995	1.028		3.32	20
1,1,1-Trichloroethane	0.843	0.898		6.52	20
Methylcyclohexane	0.533	0.554		3.94	20
Benzene	1.298	1.343		3.47	20
1,2-Dichloroethane	0.466	0.485		4.08	20
Trichloroethene	0.360	0.349		-3.06	20
1,2-Dichloropropane	0.331	0.344		3.93	20
Bromodichloromethane	0.430	0.456		6.05	20
4-Methyl-2-Pentanone	0.492	0.526		6.91	20
Toluene	0.831	0.852		2.53	20
t-1,3-Dichloropropene	0.476	0.505		6.09	20
cis-1,3-Dichloropropene	0.529	0.560		5.86	20
1,1,2-Trichloroethane	0.329	0.342		3.95	20
2-Hexanone	0.383	0.407		6.27	20
Dibromochloromethane	0.322	0.346		7.45	20
1,2-Dibromoethane	0.346	0.360		4.05	20
Tetrachloroethene	0.347	0.352		1.44	20
Chlorobenzene	0.993	0.996	0.3	0.3	20
Ethyl Benzene	1.764	1.842		4.42	20

All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: MSVOA_X Calibration Date/Time: 10/08/2019 21:19
 Lab File ID: VX012904.D Init. Calib. Date(s): 10/08/2019 10/08/2019
 Heated Purge: (Y/N) N Init. Calib. Time(s): 11:04 13:00
 GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.659	0.686		4.1	20
o-Xylene	0.643	0.669		4.04	20
Styrene	1.092	1.176		7.69	20
Bromoform	0.248	0.267	0.1	7.66	20
Isopropylbenzene	3.676	3.864		5.11	20
1,1,2,2-Tetrachloroethane	1.223	1.259	0.3	2.94	20
1,3-Dichlorobenzene	1.609	1.628		1.18	20
1,4-Dichlorobenzene	1.629	1.643		0.86	20
1,2-Dichlorobenzene	1.577	1.621		2.79	20
1,2-Dibromo-3-Chloropropane	0.287	0.318		10.8	20
1,2,4-Trichlorobenzene	0.988	1.045		5.77	20
1,2,3-Trichlorobenzene	1.021	1.064		4.21	20
1,2-Dichloroethane-d4	0.625	0.626		0.16	20
Dibromofluoromethane	0.287	0.285		-0.7	20
Toluene-d8	1.119	1.104		-1.34	20
4-Bromofluorobenzene	0.435	0.437		0.46	20

All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.



284 Sheffield Street, Mountainside, New Jersey - 07092

Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID: K5154	OrderDate: 10/1/2019 2:37:56 PM
Client: TRC Companies, Inc.	Project: NYCDPR Bush Terminal LandFill Piers 1-4
Contact: Jim Peronto	Location: M12

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
K5154-02	FB-10012019	Water	SVOCMS Group1	8270D	10/01/19	10/02/19	10/02/19	10/01/19
K5154-03	MW-106S	Water	SVOCMS Group1	8270D	10/01/19	10/02/19	10/02/19	10/01/19
K5154-04	MW-106I	Water	SVOCMS Group1	8270D	10/01/19	10/02/19	10/02/19	10/01/19
K5154-05	MW-106D	Water	SVOCMS Group1	8270D	10/01/19	10/02/19	10/02/19	10/01/19
K5154-06	MW-107	Water	SVOCMS Group1	8270D	10/01/19	10/02/19	10/02/19	10/01/19
K5154-10	MW-103S	Water	SVOCMS Group1	8270D	10/02/19	10/03/19	10/04/19	10/02/19
K5154-11	MW-103I	Water	SVOCMS Group1	8270D	10/02/19	10/03/19	10/04/19	10/02/19
K5154-14	MW-103D	Water	SVOCMS Group1	8270D	10/02/19	10/03/19	10/04/19	10/02/19
K5154-15	MW-105S	Water	SVOCMS Group1	8270D	10/02/19	10/03/19	10/05/19	10/02/19
K5154-16	MW-105I	Water	SVOCMS Group1	8270D	10/02/19	10/03/19	10/05/19	10/02/19
K5154-17	MW-105D	Water	SVOCMS Group1	8270D	10/02/19	10/03/19	10/05/19	10/02/19
K5154-18	MW-104I	Water	SVOCMS Group1	8270D	10/02/19	10/03/19	10/04/19	10/02/19

LAB CHRONICLE

K5154-19	MW-104D	Water			10/02/19			10/02/19
			SVOCMS Group1	8270D		10/03/19	10/04/19	
K5154-21	MW-102S	Water			10/03/19			10/03/19
			SVOCMS Group1	8270D		10/07/19	10/07/19	
K5154-22	MW-102I	Water			10/03/19			10/03/19
			SVOCMS Group1	8270D		10/07/19	10/07/19	
K5154-23	MW-102D	Water			10/03/19			10/03/19
			SVOCMS Group1	8270D		10/07/19	10/07/19	
K5154-24	MW-101S	Water			10/03/19			10/03/19
			SVOCMS Group1	8270D		10/07/19	10/07/19	
K5154-25	MW-101I	Water			10/03/19			10/03/19
			SVOCMS Group1	8270D		10/07/19	10/07/19	
K5154-26	MW-101D	Water			10/03/19			10/03/19
			SVOCMS Group1	8270D		10/07/19	10/07/19	

Hit Summary Sheet SW-846

SDG No.: K5154
Client: TRC Companies, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : FB-10012019								
K5154-02	FB-10012019	WATER	Dimethylphthalate	5.000	J	2.7	10	ug/L
			Total Svoc :			5.00		
			Total Concentration:			5.00		
Client ID : MW-106S								
K5154-03	MW-106S	WATER	Caprolactam	5.800	J	3.4	10	ug/L
K5154-03	MW-106S	WATER	Dimethylphthalate	5.900	J	2.7	10	ug/L
			Total Svoc :			11.70		
			Total Concentration:			11.70		
Client ID : MW-106I								
K5154-04	MW-106I	WATER	Caprolactam	9.700	J	3.4	10	ug/L
K5154-04	MW-106I	WATER	Dimethylphthalate	5.400	J	2.7	10	ug/L
			Total Svoc :			15.10		
			Total Concentration:			15.10		
Client ID : MW-106D								
K5154-05	MW-106D	WATER	Caprolactam	18.200		3.4	10	ug/L
K5154-05	MW-106D	WATER	Dimethylphthalate	4.900	J	2.7	10	ug/L
			Total Svoc :			23.10		
			Total Concentration:			23.10		
Client ID : MW-107								
K5154-06	MW-107	WATER	Caprolactam	12.400		3.4	10	ug/L
K5154-06	MW-107	WATER	Dimethylphthalate	5.400	J	2.7	10	ug/L
			Total Svoc :			17.80		
			Total Concentration:			17.80		
Client ID : MW-103S								
K5154-10	MW-103S	WATER	Phenol	7.300	J	2.2	10	ug/L
K5154-10	MW-103S	WATER	Naphthalene	3.200	J	2.5	10	ug/L
K5154-10	MW-103S	WATER	Caprolactam	7.000	J	3.4	10	ug/L
K5154-10	MW-103S	WATER	Dimethylphthalate	16.500	B	2.7	10	ug/L
K5154-10	MW-103S	WATER	Acenaphthene	5.500	J	2.8	10	ug/L
			Total Svoc :			39.50		
			Total Concentration:			39.50		
Client ID : MW-103I								
K5154-11	MW-103I	WATER	Phenol	6.900	J	2.2	10	ug/L
K5154-11	MW-103I	WATER	Dimethylphthalate	18.300	B	2.7	10	ug/L
			Total Svoc :			25.20		
			Total Concentration:			25.20		

Hit Summary Sheet SW-846

SDG No.: K5154
Client: TRC Companies, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID :	MW-103D							
K5154-14	MW-103D	WATER	Phenol	7.600	J	2.2	10	ug/L
K5154-14	MW-103D	WATER	3+4-Methylphenols	4.100	JQ	3.4	10	ug/L
K5154-14	MW-103D	WATER	Caprolactam	4.800	J	3.4	10	ug/L
K5154-14	MW-103D	WATER	Dimethylphthalate	10.200	B	2.7	10	ug/L
			Total Svoc :			26.70		
			Total Concentration:			26.70		
Client ID :	MW-105S							
K5154-15	MW-105S	WATER	Phenol	7.300	J	2.2	10	ug/L
K5154-15	MW-105S	WATER	Dimethylphthalate	14.400	B	2.7	10	ug/L
			Total Svoc :			21.70		
			Total Concentration:			21.70		
Client ID :	MW-105I							
K5154-16	MW-105I	WATER	Phenol	6.100	J	2.2	10	ug/L
K5154-16	MW-105I	WATER	Dimethylphthalate	10.800	B	2.7	10	ug/L
			Total Svoc :			16.90		
			Total Concentration:			16.90		
Client ID :	MW-105D							
K5154-17	MW-105D	WATER	Phenol	9.400	J	2.2	10	ug/L
K5154-17	MW-105D	WATER	Caprolactam	6.100	J	3.4	10	ug/L
K5154-17	MW-105D	WATER	Dimethylphthalate	13.900	B	2.7	10	ug/L
			Total Svoc :			29.40		
			Total Concentration:			29.40		
Client ID :	MW-104I							
K5154-18	MW-104I	WATER	Phenol	6.500	J	2.2	10	ug/L
K5154-18	MW-104I	WATER	Caprolactam	5.000	J	3.4	10	ug/L
K5154-18	MW-104I	WATER	Dimethylphthalate	9.400	JB	2.7	10	ug/L
			Total Svoc :			20.90		
			Total Concentration:			20.90		
Client ID :	MW-104D							
K5154-19	MW-104D	WATER	Phenol	4.500	J	2.2	10	ug/L
K5154-19	MW-104D	WATER	Caprolactam	11.900		3.4	10	ug/L
K5154-19	MW-104D	WATER	Dimethylphthalate	7.900	JB	2.7	10	ug/L
			Total Svoc :			24.30		
			Total Concentration:			24.30		
Client ID :	MW-102S							
K5154-21	MW-102S	WATER	Phenol	7.500	J	2.2	10	ug/L
K5154-21	MW-102S	WATER	Dimethylphthalate	11.600		2.7	10	ug/L
			Total Svoc :			19.10		

Hit Summary Sheet SW-846

SDG No.: K5154
Client: TRC Companies, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Total Concentration:			19.10				
Client ID :	MW-102I						
K5154-22	MW-102I	WATER	Phenol	4.000	J 2.2	10	ug/L
K5154-22	MW-102I	WATER	Dimethylphthalate	7.300	J 2.7	10	ug/L
Total Svoc :			11.30				
Total Concentration:			11.30				
Client ID :	MW-102D						
K5154-23	MW-102D	WATER	Phenol	6.800	J 2.2	10	ug/L
K5154-23	MW-102D	WATER	Dimethylphthalate	11.300	J 2.7	10	ug/L
Total Svoc :			18.10				
Total Concentration:			18.10				
Client ID :	MW-101S						
K5154-24	MW-101S	WATER	Phenol	3.600	J 2.2	10	ug/L
K5154-24	MW-101S	WATER	Dimethylphthalate	8.100	J 2.7	10	ug/L
Total Svoc :			11.70				
Total Concentration:			11.70				
Client ID :	MW-101I						
K5154-25	MW-101I	WATER	Phenol	4.600	J 2.2	10	ug/L
K5154-25	MW-101I	WATER	Caprolactam	6.000	J 3.4	10	ug/L
K5154-25	MW-101I	WATER	Dimethylphthalate	5.100	J 2.7	10	ug/L
Total Svoc :			15.70				
Total Concentration:			15.70				
Client ID :	MW-101D						
K5154-26	MW-101D	WATER	Phenol	6.200	J 2.2	10	ug/L
K5154-26	MW-101D	WATER	Dimethylphthalate	8.800	J 2.7	10	ug/L
Total Svoc :			15.00				
Total Concentration:			15.00				

SAMPLE DATA

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	FB-10012019	SDG No.:	K5154
Lab Sample ID:	K5154-02	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042989.D	1	10/02/19 08:41	10/02/19 17:49	PB123559

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	2.90	10.0	ug/L
108-95-2	Phenol	10.0	U	2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	10.0	U	3.40	10.0	ug/L
95-57-8	2-Chlorophenol	10.0	U	2.50	10.0	ug/L
95-48-7	2-Methylphenol	10.0	U	2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	10.0	U	3.00	10.0	ug/L
98-86-2	Acetophenone	10.0	U	3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	10.0	UQ	3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	10.0	U	4.70	10.0	ug/L
67-72-1	Hexachloroethane	10.0	U	2.90	10.0	ug/L
98-95-3	Nitrobenzene	10.0	U	2.60	10.0	ug/L
78-59-1	Isophorone	10.0	U	2.20	10.0	ug/L
88-75-5	2-Nitrophenol	10.0	U	3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	10.0	U	2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	10.0	U	2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	10.0	U	2.30	10.0	ug/L
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
106-47-8	4-Chloroaniline	10.0	U	4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	10.0	U	3.20	10.0	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	10.0	U	2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.0	U	2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	10.0	U	3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	10.0	U	3.00	10.0	ug/L
88-74-4	2-Nitroaniline	10.0	U	3.10	10.0	ug/L
131-11-3	Dimethylphthalate	5.00	J	2.70	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	10.0	U	3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	FB-10012019	SDG No.:	K5154
Lab Sample ID:	K5154-02	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042989.D	1	10/02/19 08:41	10/02/19 17:49	PB123559

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	10.0	U	4.20	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	4.20	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.40	10.0	ug/L
132-64-9	Dibenzofuran	10.0	U	3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	10.0	U	3.10	10.0	ug/L
84-66-2	Diethylphthalate	10.0	U	2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	3.30	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
100-01-6	4-Nitroaniline	10.0	U	3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	10.0	U	2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	10.0	U	2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	10.0	U	2.70	10.0	ug/L
1912-24-9	Atrazine	10.0	U	2.90	10.0	ug/L
87-86-5	Pentachlorophenol	10.0	U	4.30	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
86-74-8	Carbazole	10.0	U	3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	10.0	U	3.70	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	10.0	U	3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	10.0	U	3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	FB-10012019	SDG No.:	K5154
Lab Sample ID:	K5154-02	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042989.D	1	10/02/19 08:41	10/02/19 17:49	PB123559

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U	3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U	2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	88.1		10 - 130	59%	SPK: 150
13127-88-3	Phenol-d6	57.9		10 - 130	39%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.2		36 - 131	90%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.1		39 - 131	93%	SPK: 100
118-79-6	2,4,6-Tribromophenol	137		25 - 155	91%	SPK: 150
1718-51-0	Terphenyl-d14	96.9		23 - 130	97%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	69100	8.07			
1146-65-2	Naphthalene-d8	252000	10.88			
15067-26-2	Acenaphthene-d10	179000	14.69			
1517-22-2	Phenanthrene-d10	417000	17.43			
1719-03-5	Chrysene-d12	450000	21.7			
1520-96-3	Perylene-d12	507000	24.92			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-106S	SDG No.:	K5154
Lab Sample ID:	K5154-03	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042990.D	1	10/02/19 08:41	10/02/19 18:27	PB123559

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	2.90	10.0	ug/L
108-95-2	Phenol	10.0	U	2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	10.0	U	3.40	10.0	ug/L
95-57-8	2-Chlorophenol	10.0	U	2.50	10.0	ug/L
95-48-7	2-Methylphenol	10.0	U	2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	10.0	U	3.00	10.0	ug/L
98-86-2	Acetophenone	10.0	U	3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	10.0	UQ	3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	10.0	U	4.70	10.0	ug/L
67-72-1	Hexachloroethane	10.0	U	2.90	10.0	ug/L
98-95-3	Nitrobenzene	10.0	U	2.60	10.0	ug/L
78-59-1	Isophorone	10.0	U	2.20	10.0	ug/L
88-75-5	2-Nitrophenol	10.0	U	3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	10.0	U	2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	10.0	U	2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	10.0	U	2.30	10.0	ug/L
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
106-47-8	4-Chloroaniline	10.0	U	4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	10.0	U	3.20	10.0	ug/L
105-60-2	Caprolactam	5.80	J	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	10.0	U	2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.0	U	2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	10.0	U	3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	10.0	U	3.00	10.0	ug/L
88-74-4	2-Nitroaniline	10.0	U	3.10	10.0	ug/L
131-11-3	Dimethylphthalate	5.90	J	2.70	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	10.0	U	3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-106S	SDG No.:	K5154
Lab Sample ID:	K5154-03	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042990.D	1	10/02/19 08:41	10/02/19 18:27	PB123559

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	10.0	U	4.20	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	4.20	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.40	10.0	ug/L
132-64-9	Dibenzofuran	10.0	U	3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	10.0	U	3.10	10.0	ug/L
84-66-2	Diethylphthalate	10.0	U	2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	3.30	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
100-01-6	4-Nitroaniline	10.0	U	3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	10.0	U	2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	10.0	U	2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	10.0	U	2.70	10.0	ug/L
1912-24-9	Atrazine	10.0	U	2.90	10.0	ug/L
87-86-5	Pentachlorophenol	10.0	U	4.30	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
86-74-8	Carbazole	10.0	U	3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	10.0	U	3.70	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	10.0	U	3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	10.0	U	3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-106S	SDG No.:	K5154
Lab Sample ID:	K5154-03	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042990.D	1	10/02/19 08:41	10/02/19 18:27	PB123559

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U	3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U	2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	90.3		10 - 130	60%	SPK: 150
13127-88-3	Phenol-d6	62.6		10 - 130	42%	SPK: 150
4165-60-0	Nitrobenzene-d5	85.5		36 - 131	85%	SPK: 100
321-60-8	2-Fluorobiphenyl	90.6		39 - 131	91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	135		25 - 155	90%	SPK: 150
1718-51-0	Terphenyl-d14	96.9		23 - 130	97%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	74600	8.07			
1146-65-2	Naphthalene-d8	271000	10.87			
15067-26-2	Acenaphthene-d10	190000	14.69			
1517-22-2	Phenanthrene-d10	431000	17.43			
1719-03-5	Chrysene-d12	458000	21.7			
1520-96-3	Perylene-d12	535000	24.92			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-106I	SDG No.:	K5154
Lab Sample ID:	K5154-04	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042991.D	1	10/02/19 08:41	10/02/19 19:06	PB123559

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	2.90	10.0	ug/L
108-95-2	Phenol	10.0	U	2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	10.0	U	3.40	10.0	ug/L
95-57-8	2-Chlorophenol	10.0	U	2.50	10.0	ug/L
95-48-7	2-Methylphenol	10.0	U	2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	10.0	U	3.00	10.0	ug/L
98-86-2	Acetophenone	10.0	U	3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	10.0	UQ	3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	10.0	U	4.70	10.0	ug/L
67-72-1	Hexachloroethane	10.0	U	2.90	10.0	ug/L
98-95-3	Nitrobenzene	10.0	U	2.60	10.0	ug/L
78-59-1	Isophorone	10.0	U	2.20	10.0	ug/L
88-75-5	2-Nitrophenol	10.0	U	3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	10.0	U	2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	10.0	U	2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	10.0	U	2.30	10.0	ug/L
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
106-47-8	4-Chloroaniline	10.0	U	4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	10.0	U	3.20	10.0	ug/L
105-60-2	Caprolactam	9.70	J	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	10.0	U	2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.0	U	2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	10.0	U	3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	10.0	U	3.00	10.0	ug/L
88-74-4	2-Nitroaniline	10.0	U	3.10	10.0	ug/L
131-11-3	Dimethylphthalate	5.40	J	2.70	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	10.0	U	3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-1061	SDG No.:	K5154
Lab Sample ID:	K5154-04	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042991.D	1	10/02/19 08:41	10/02/19 19:06	PB123559

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	10.0	U	4.20	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	4.20	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.40	10.0	ug/L
132-64-9	Dibenzofuran	10.0	U	3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	10.0	U	3.10	10.0	ug/L
84-66-2	Diethylphthalate	10.0	U	2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	3.30	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
100-01-6	4-Nitroaniline	10.0	U	3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	10.0	U	2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	10.0	U	2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	10.0	U	2.70	10.0	ug/L
1912-24-9	Atrazine	10.0	U	2.90	10.0	ug/L
87-86-5	Pentachlorophenol	10.0	U	4.30	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
86-74-8	Carbazole	10.0	U	3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	10.0	U	3.70	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	10.0	U	3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	10.0	U	3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-106I	SDG No.:	K5154
Lab Sample ID:	K5154-04	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042991.D	1	10/02/19 08:41	10/02/19 19:06	PB123559

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U	3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U	2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	103		10 - 130	69%	SPK: 150
13127-88-3	Phenol-d6	72.8		10 - 130	49%	SPK: 150
4165-60-0	Nitrobenzene-d5	88.1		36 - 131	88%	SPK: 100
321-60-8	2-Fluorobiphenyl	90.7		39 - 131	91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	134		25 - 155	89%	SPK: 150
1718-51-0	Terphenyl-d14	96.1		23 - 130	96%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	72600	8.07			
1146-65-2	Naphthalene-d8	266000	10.87			
15067-26-2	Acenaphthene-d10	192000	14.69			
1517-22-2	Phenanthrene-d10	435000	17.43			
1719-03-5	Chrysene-d12	457000	21.7			
1520-96-3	Perylene-d12	527000	24.92			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-106D	SDG No.:	K5154
Lab Sample ID:	K5154-05	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042992.D	1	10/02/19 08:41	10/02/19 19:44	PB123559

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	2.90	10.0	ug/L
108-95-2	Phenol	10.0	U	2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	10.0	U	3.40	10.0	ug/L
95-57-8	2-Chlorophenol	10.0	U	2.50	10.0	ug/L
95-48-7	2-Methylphenol	10.0	U	2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	10.0	U	3.00	10.0	ug/L
98-86-2	Acetophenone	10.0	U	3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	10.0	UQ	3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	10.0	U	4.70	10.0	ug/L
67-72-1	Hexachloroethane	10.0	U	2.90	10.0	ug/L
98-95-3	Nitrobenzene	10.0	U	2.60	10.0	ug/L
78-59-1	Isophorone	10.0	U	2.20	10.0	ug/L
88-75-5	2-Nitrophenol	10.0	U	3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	10.0	U	2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	10.0	U	2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	10.0	U	2.30	10.0	ug/L
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
106-47-8	4-Chloroaniline	10.0	U	4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	10.0	U	3.20	10.0	ug/L
105-60-2	Caprolactam	18.2		3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	10.0	U	2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.0	U	2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	10.0	U	3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	10.0	U	3.00	10.0	ug/L
88-74-4	2-Nitroaniline	10.0	U	3.10	10.0	ug/L
131-11-3	Dimethylphthalate	4.90	J	2.70	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	10.0	U	3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-106D	SDG No.:	K5154
Lab Sample ID:	K5154-05	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042992.D	1	10/02/19 08:41	10/02/19 19:44	PB123559

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	10.0	U	4.20	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	4.20	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.40	10.0	ug/L
132-64-9	Dibenzofuran	10.0	U	3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	10.0	U	3.10	10.0	ug/L
84-66-2	Diethylphthalate	10.0	U	2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	3.30	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
100-01-6	4-Nitroaniline	10.0	U	3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	10.0	U	2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	10.0	U	2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	10.0	U	2.70	10.0	ug/L
1912-24-9	Atrazine	10.0	U	2.90	10.0	ug/L
87-86-5	Pentachlorophenol	10.0	U	4.30	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
86-74-8	Carbazole	10.0	U	3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	10.0	U	3.70	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	10.0	U	3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	10.0	U	3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-106D	SDG No.:	K5154
Lab Sample ID:	K5154-05	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042992.D	1	10/02/19 08:41	10/02/19 19:44	PB123559

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U	3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U	2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	98.7		10 - 130	66%	SPK: 150
13127-88-3	Phenol-d6	70.0		10 - 130	47%	SPK: 150
4165-60-0	Nitrobenzene-d5	88.5		36 - 131	88%	SPK: 100
321-60-8	2-Fluorobiphenyl	90.6		39 - 131	91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	135		25 - 155	90%	SPK: 150
1718-51-0	Terphenyl-d14	96.8		23 - 130	97%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	73500	8.07			
1146-65-2	Naphthalene-d8	265000	10.87			
15067-26-2	Acenaphthene-d10	190000	14.69			
1517-22-2	Phenanthrene-d10	433000	17.43			
1719-03-5	Chrysene-d12	459000	21.7			
1520-96-3	Perylene-d12	531000	24.93			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-107	SDG No.:	K5154
Lab Sample ID:	K5154-06	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042993.D	1	10/02/19 08:41	10/02/19 20:23	PB123559

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	2.90	10.0	ug/L
108-95-2	Phenol	10.0	U	2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	10.0	U	3.40	10.0	ug/L
95-57-8	2-Chlorophenol	10.0	U	2.50	10.0	ug/L
95-48-7	2-Methylphenol	10.0	U	2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	10.0	U	3.00	10.0	ug/L
98-86-2	Acetophenone	10.0	U	3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	10.0	UQ	3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	10.0	U	4.70	10.0	ug/L
67-72-1	Hexachloroethane	10.0	U	2.90	10.0	ug/L
98-95-3	Nitrobenzene	10.0	U	2.60	10.0	ug/L
78-59-1	Isophorone	10.0	U	2.20	10.0	ug/L
88-75-5	2-Nitrophenol	10.0	U	3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	10.0	U	2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	10.0	U	2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	10.0	U	2.30	10.0	ug/L
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
106-47-8	4-Chloroaniline	10.0	U	4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	10.0	U	3.20	10.0	ug/L
105-60-2	Caprolactam	12.4		3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	10.0	U	2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.0	U	2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	10.0	U	3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	10.0	U	3.00	10.0	ug/L
88-74-4	2-Nitroaniline	10.0	U	3.10	10.0	ug/L
131-11-3	Dimethylphthalate	5.40	J	2.70	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	10.0	U	3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-107	SDG No.:	K5154
Lab Sample ID:	K5154-06	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042993.D	1	10/02/19 08:41	10/02/19 20:23	PB123559

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	10.0	U	4.20	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	4.20	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.40	10.0	ug/L
132-64-9	Dibenzofuran	10.0	U	3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	10.0	U	3.10	10.0	ug/L
84-66-2	Diethylphthalate	10.0	U	2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	3.30	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
100-01-6	4-Nitroaniline	10.0	U	3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	10.0	U	2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	10.0	U	2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	10.0	U	2.70	10.0	ug/L
1912-24-9	Atrazine	10.0	U	2.90	10.0	ug/L
87-86-5	Pentachlorophenol	10.0	U	4.30	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
86-74-8	Carbazole	10.0	U	3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	10.0	U	3.70	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	10.0	U	3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	10.0	U	3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-107	SDG No.:	K5154
Lab Sample ID:	K5154-06	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042993.D	1	10/02/19 08:41	10/02/19 20:23	PB123559

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U	3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U	2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	101		10 - 130	67%	SPK: 150
13127-88-3	Phenol-d6	71.2		10 - 130	47%	SPK: 150
4165-60-0	Nitrobenzene-d5	88.9		36 - 131	89%	SPK: 100
321-60-8	2-Fluorobiphenyl	92.4		39 - 131	92%	SPK: 100
118-79-6	2,4,6-Tribromophenol	141		25 - 155	94%	SPK: 150
1718-51-0	Terphenyl-d14	97.6		23 - 130	98%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	68300	8.07			
1146-65-2	Naphthalene-d8	248000	10.87			
15067-26-2	Acenaphthene-d10	177000	14.69			
1517-22-2	Phenanthrene-d10	421000	17.43			
1719-03-5	Chrysene-d12	459000	21.7			
1520-96-3	Perylene-d12	529000	24.93			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103S	SDG No.:	K5154
Lab Sample ID:	K5154-10	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043037.D	1	10/03/19 08:20	10/04/19 20:50	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	2.90	10.0	ug/L
108-95-2	Phenol	7.30	J	2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	10.0	U	3.40	10.0	ug/L
95-57-8	2-Chlorophenol	10.0	U	2.50	10.0	ug/L
95-48-7	2-Methylphenol	10.0	U	2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	10.0	U	3.00	10.0	ug/L
98-86-2	Acetophenone	10.0	U	3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	10.0	UQ	3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	10.0	U	4.70	10.0	ug/L
67-72-1	Hexachloroethane	10.0	U	2.90	10.0	ug/L
98-95-3	Nitrobenzene	10.0	U	2.60	10.0	ug/L
78-59-1	Isophorone	10.0	U	2.20	10.0	ug/L
88-75-5	2-Nitrophenol	10.0	U	3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	10.0	U	2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	10.0	U	2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	10.0	U	2.30	10.0	ug/L
91-20-3	Naphthalene	3.20	J	2.50	10.0	ug/L
106-47-8	4-Chloroaniline	10.0	U	4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	10.0	U	3.20	10.0	ug/L
105-60-2	Caprolactam	7.00	J	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	10.0	U	2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.0	U	2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	10.0	U	3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	10.0	U	3.00	10.0	ug/L
88-74-4	2-Nitroaniline	10.0	U	3.10	10.0	ug/L
131-11-3	Dimethylphthalate	16.5	B	2.70	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	10.0	U	3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103S	SDG No.:	K5154
Lab Sample ID:	K5154-10	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043037.D	1	10/03/19 08:20	10/04/19 20:50	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	10.0	U	4.20	10.0	ug/L
83-32-9	Acenaphthene	5.50	J	2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	4.20	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.40	10.0	ug/L
132-64-9	Dibenzofuran	10.0	U	3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	10.0	U	3.10	10.0	ug/L
84-66-2	Diethylphthalate	10.0	U	2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	3.30	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
100-01-6	4-Nitroaniline	10.0	U	3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	10.0	U	2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	10.0	U	2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	10.0	U	2.70	10.0	ug/L
1912-24-9	Atrazine	10.0	U	2.90	10.0	ug/L
87-86-5	Pentachlorophenol	10.0	U	4.30	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
86-74-8	Carbazole	10.0	U	3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	10.0	U	3.70	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	10.0	U	3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	10.0	U	3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103S	SDG No.:	K5154
Lab Sample ID:	K5154-10	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043037.D	1	10/03/19 08:20	10/04/19 20:50	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U	3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U	2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	78.2		10 - 130	52%	SPK: 150
13127-88-3	Phenol-d6	52.1		10 - 130	35%	SPK: 150
4165-60-0	Nitrobenzene-d5	73.2		36 - 131	73%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.5		39 - 131	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	116		25 - 155	77%	SPK: 150
1718-51-0	Terphenyl-d14	77.6		23 - 130	78%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	76400	8.06			
1146-65-2	Naphthalene-d8	298000	10.86			
15067-26-2	Acenaphthene-d10	206000	14.68			
1517-22-2	Phenanthrene-d10	458000	17.42			
1719-03-5	Chrysene-d12	510000	21.69			
1520-96-3	Perylene-d12	601000	24.91			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-1031	SDG No.:	K5154
Lab Sample ID:	K5154-11	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043038.D	1	10/03/19 08:20	10/04/19 21:28	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	2.90	10.0	ug/L
108-95-2	Phenol	6.90	J	2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	10.0	U	3.40	10.0	ug/L
95-57-8	2-Chlorophenol	10.0	U	2.50	10.0	ug/L
95-48-7	2-Methylphenol	10.0	U	2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	10.0	U	3.00	10.0	ug/L
98-86-2	Acetophenone	10.0	U	3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	10.0	UQ	3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	10.0	U	4.70	10.0	ug/L
67-72-1	Hexachloroethane	10.0	U	2.90	10.0	ug/L
98-95-3	Nitrobenzene	10.0	U	2.60	10.0	ug/L
78-59-1	Isophorone	10.0	U	2.20	10.0	ug/L
88-75-5	2-Nitrophenol	10.0	U	3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	10.0	U	2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	10.0	U	2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	10.0	U	2.30	10.0	ug/L
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
106-47-8	4-Chloroaniline	10.0	U	4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	10.0	U	3.20	10.0	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	10.0	U	2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.0	U	2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	10.0	U	3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	10.0	U	3.00	10.0	ug/L
88-74-4	2-Nitroaniline	10.0	U	3.10	10.0	ug/L
131-11-3	Dimethylphthalate	18.3	B	2.70	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	10.0	U	3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-1031	SDG No.:	K5154
Lab Sample ID:	K5154-11	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043038.D	1	10/03/19 08:20	10/04/19 21:28	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	10.0	U	4.20	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	4.20	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.40	10.0	ug/L
132-64-9	Dibenzofuran	10.0	U	3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	10.0	U	3.10	10.0	ug/L
84-66-2	Diethylphthalate	10.0	U	2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	3.30	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
100-01-6	4-Nitroaniline	10.0	U	3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	10.0	U	2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	10.0	U	2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	10.0	U	2.70	10.0	ug/L
1912-24-9	Atrazine	10.0	U	2.90	10.0	ug/L
87-86-5	Pentachlorophenol	10.0	U	4.30	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
86-74-8	Carbazole	10.0	U	3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	10.0	U	3.70	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	10.0	U	3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	10.0	U	3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-1031	SDG No.:	K5154
Lab Sample ID:	K5154-11	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043038.D	1	10/03/19 08:20	10/04/19 21:28	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U	3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U	2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	73.1		10 - 130	49%	SPK: 150
13127-88-3	Phenol-d6	45.7		10 - 130	30%	SPK: 150
4165-60-0	Nitrobenzene-d5	72.2		36 - 131	72%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.2		39 - 131	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	115		25 - 155	77%	SPK: 150
1718-51-0	Terphenyl-d14	78.2		23 - 130	78%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	74000	8.06			
1146-65-2	Naphthalene-d8	286000	10.86			
15067-26-2	Acenaphthene-d10	203000	14.68			
1517-22-2	Phenanthrene-d10	480000	17.42			
1719-03-5	Chrysene-d12	514000	21.69			
1520-96-3	Perylene-d12	601000	24.91			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103D	SDG No.:	K5154
Lab Sample ID:	K5154-14	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043041.D	1	10/03/19 08:20	10/04/19 23:23	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	2.90	10.0	ug/L
108-95-2	Phenol	7.60	J	2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	10.0	U	3.40	10.0	ug/L
95-57-8	2-Chlorophenol	10.0	U	2.50	10.0	ug/L
95-48-7	2-Methylphenol	10.0	U	2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	10.0	U	3.00	10.0	ug/L
98-86-2	Acetophenone	10.0	U	3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	4.10	JQ	3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	10.0	U	4.70	10.0	ug/L
67-72-1	Hexachloroethane	10.0	U	2.90	10.0	ug/L
98-95-3	Nitrobenzene	10.0	U	2.60	10.0	ug/L
78-59-1	Isophorone	10.0	U	2.20	10.0	ug/L
88-75-5	2-Nitrophenol	10.0	U	3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	10.0	U	2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	10.0	U	2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	10.0	U	2.30	10.0	ug/L
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
106-47-8	4-Chloroaniline	10.0	U	4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	10.0	U	3.20	10.0	ug/L
105-60-2	Caprolactam	4.80	J	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	10.0	U	2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.0	U	2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	10.0	U	3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	10.0	U	3.00	10.0	ug/L
88-74-4	2-Nitroaniline	10.0	U	3.10	10.0	ug/L
131-11-3	Dimethylphthalate	10.2	B	2.70	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	10.0	U	3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103D	SDG No.:	K5154
Lab Sample ID:	K5154-14	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043041.D	1	10/03/19 08:20	10/04/19 23:23	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	10.0	U	4.20	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	4.20	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.40	10.0	ug/L
132-64-9	Dibenzofuran	10.0	U	3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	10.0	U	3.10	10.0	ug/L
84-66-2	Diethylphthalate	10.0	U	2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	3.30	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
100-01-6	4-Nitroaniline	10.0	U	3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	10.0	U	2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	10.0	U	2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	10.0	U	2.70	10.0	ug/L
1912-24-9	Atrazine	10.0	U	2.90	10.0	ug/L
87-86-5	Pentachlorophenol	10.0	U	4.30	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
86-74-8	Carbazole	10.0	U	3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	10.0	U	3.70	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	10.0	U	3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	10.0	U	3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103D	SDG No.:	K5154
Lab Sample ID:	K5154-14	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043041.D	1	10/03/19 08:20	10/04/19 23:23	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U	3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U	2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	78.1		10 - 130	52%	SPK: 150
13127-88-3	Phenol-d6	51.6		10 - 130	34%	SPK: 150
4165-60-0	Nitrobenzene-d5	73.1		36 - 131	73%	SPK: 100
321-60-8	2-Fluorobiphenyl	71.3		39 - 131	71%	SPK: 100
118-79-6	2,4,6-Tribromophenol	116		25 - 155	78%	SPK: 150
1718-51-0	Terphenyl-d14	79.9		23 - 130	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	76100	8.06			
1146-65-2	Naphthalene-d8	287000	10.86			
15067-26-2	Acenaphthene-d10	206000	14.68			
1517-22-2	Phenanthrene-d10	470000	17.42			
1719-03-5	Chrysene-d12	520000	21.69			
1520-96-3	Perylene-d12	605000	24.91			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-105S	SDG No.:	K5154
Lab Sample ID:	K5154-15	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043042.D	1	10/03/19 08:20	10/05/19 00:01	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	2.90	10.0	ug/L
108-95-2	Phenol	7.30	J	2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	10.0	U	3.40	10.0	ug/L
95-57-8	2-Chlorophenol	10.0	U	2.50	10.0	ug/L
95-48-7	2-Methylphenol	10.0	U	2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	10.0	U	3.00	10.0	ug/L
98-86-2	Acetophenone	10.0	U	3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	10.0	UQ	3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	10.0	U	4.70	10.0	ug/L
67-72-1	Hexachloroethane	10.0	U	2.90	10.0	ug/L
98-95-3	Nitrobenzene	10.0	U	2.60	10.0	ug/L
78-59-1	Isophorone	10.0	U	2.20	10.0	ug/L
88-75-5	2-Nitrophenol	10.0	U	3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	10.0	U	2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	10.0	U	2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	10.0	U	2.30	10.0	ug/L
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
106-47-8	4-Chloroaniline	10.0	U	4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	10.0	U	3.20	10.0	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	10.0	U	2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.0	U	2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	10.0	U	3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	10.0	U	3.00	10.0	ug/L
88-74-4	2-Nitroaniline	10.0	U	3.10	10.0	ug/L
131-11-3	Dimethylphthalate	14.4	B	2.70	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	10.0	U	3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-105S	SDG No.:	K5154
Lab Sample ID:	K5154-15	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043042.D	1	10/03/19 08:20	10/05/19 00:01	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	10.0	U	4.20	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	4.20	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.40	10.0	ug/L
132-64-9	Dibenzofuran	10.0	U	3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	10.0	U	3.10	10.0	ug/L
84-66-2	Diethylphthalate	10.0	U	2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	3.30	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
100-01-6	4-Nitroaniline	10.0	U	3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	10.0	U	2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	10.0	U	2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	10.0	U	2.70	10.0	ug/L
1912-24-9	Atrazine	10.0	U	2.90	10.0	ug/L
87-86-5	Pentachlorophenol	10.0	U	4.30	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
86-74-8	Carbazole	10.0	U	3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	10.0	U	3.70	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	10.0	U	3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	10.0	U	3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-105S	SDG No.:	K5154
Lab Sample ID:	K5154-15	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043042.D	1	10/03/19 08:20	10/05/19 00:01	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U	3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U	2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	77.2		10 - 130	51%	SPK: 150
13127-88-3	Phenol-d6	49.8		10 - 130	33%	SPK: 150
4165-60-0	Nitrobenzene-d5	70.5		36 - 131	71%	SPK: 100
321-60-8	2-Fluorobiphenyl	72.8		39 - 131	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	116		25 - 155	77%	SPK: 150
1718-51-0	Terphenyl-d14	76.6		23 - 130	77%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	76100	8.06			
1146-65-2	Naphthalene-d8	292000	10.87			
15067-26-2	Acenaphthene-d10	202000	14.68			
1517-22-2	Phenanthrene-d10	462000	17.42			
1719-03-5	Chrysene-d12	515000	21.7			
1520-96-3	Perylene-d12	610000	24.91			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-1051	SDG No.:	K5154
Lab Sample ID:	K5154-16	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043043.D	1	10/03/19 08:20	10/05/19 00:39	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	2.90	10.0	ug/L
108-95-2	Phenol	6.10	J	2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	10.0	U	3.40	10.0	ug/L
95-57-8	2-Chlorophenol	10.0	U	2.50	10.0	ug/L
95-48-7	2-Methylphenol	10.0	U	2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	10.0	U	3.00	10.0	ug/L
98-86-2	Acetophenone	10.0	U	3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	10.0	UQ	3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	10.0	U	4.70	10.0	ug/L
67-72-1	Hexachloroethane	10.0	U	2.90	10.0	ug/L
98-95-3	Nitrobenzene	10.0	U	2.60	10.0	ug/L
78-59-1	Isophorone	10.0	U	2.20	10.0	ug/L
88-75-5	2-Nitrophenol	10.0	U	3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	10.0	U	2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	10.0	U	2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	10.0	U	2.30	10.0	ug/L
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
106-47-8	4-Chloroaniline	10.0	U	4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	10.0	U	3.20	10.0	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	10.0	U	2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.0	U	2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	10.0	U	3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	10.0	U	3.00	10.0	ug/L
88-74-4	2-Nitroaniline	10.0	U	3.10	10.0	ug/L
131-11-3	Dimethylphthalate	10.8	B	2.70	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	10.0	U	3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-1051	SDG No.:	K5154
Lab Sample ID:	K5154-16	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043043.D	1	10/03/19 08:20	10/05/19 00:39	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	10.0	U	4.20	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	4.20	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.40	10.0	ug/L
132-64-9	Dibenzofuran	10.0	U	3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	10.0	U	3.10	10.0	ug/L
84-66-2	Diethylphthalate	10.0	U	2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	3.30	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
100-01-6	4-Nitroaniline	10.0	U	3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	10.0	U	2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	10.0	U	2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	10.0	U	2.70	10.0	ug/L
1912-24-9	Atrazine	10.0	U	2.90	10.0	ug/L
87-86-5	Pentachlorophenol	10.0	U	4.30	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
86-74-8	Carbazole	10.0	U	3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	10.0	U	3.70	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	10.0	U	3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	10.0	U	3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-1051	SDG No.:	K5154
Lab Sample ID:	K5154-16	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043043.D	1	10/03/19 08:20	10/05/19 00:39	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U	3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U	2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	76.8		10 - 130	51%	SPK: 150
13127-88-3	Phenol-d6	51.2		10 - 130	34%	SPK: 150
4165-60-0	Nitrobenzene-d5	71.3		36 - 131	71%	SPK: 100
321-60-8	2-Fluorobiphenyl	71.8		39 - 131	72%	SPK: 100
118-79-6	2,4,6-Tribromophenol	117		25 - 155	78%	SPK: 150
1718-51-0	Terphenyl-d14	82.5		23 - 130	83%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	77200	8.06			
1146-65-2	Naphthalene-d8	286000	10.86			
15067-26-2	Acenaphthene-d10	200000	14.68			
1517-22-2	Phenanthrene-d10	477000	17.42			
1719-03-5	Chrysene-d12	523000	21.69			
1520-96-3	Perylene-d12	600000	24.91			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-105D	SDG No.:	K5154
Lab Sample ID:	K5154-17	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043044.D	1	10/03/19 08:20	10/05/19 01:17	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	2.90	10.0	ug/L
108-95-2	Phenol	9.40	J	2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	10.0	U	3.40	10.0	ug/L
95-57-8	2-Chlorophenol	10.0	U	2.50	10.0	ug/L
95-48-7	2-Methylphenol	10.0	U	2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	10.0	U	3.00	10.0	ug/L
98-86-2	Acetophenone	10.0	U	3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	10.0	UQ	3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	10.0	U	4.70	10.0	ug/L
67-72-1	Hexachloroethane	10.0	U	2.90	10.0	ug/L
98-95-3	Nitrobenzene	10.0	U	2.60	10.0	ug/L
78-59-1	Isophorone	10.0	U	2.20	10.0	ug/L
88-75-5	2-Nitrophenol	10.0	U	3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	10.0	U	2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	10.0	U	2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	10.0	U	2.30	10.0	ug/L
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
106-47-8	4-Chloroaniline	10.0	U	4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	10.0	U	3.20	10.0	ug/L
105-60-2	Caprolactam	6.10	J	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	10.0	U	2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.0	U	2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	10.0	U	3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	10.0	U	3.00	10.0	ug/L
88-74-4	2-Nitroaniline	10.0	U	3.10	10.0	ug/L
131-11-3	Dimethylphthalate	13.9	B	2.70	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	10.0	U	3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-105D	SDG No.:	K5154
Lab Sample ID:	K5154-17	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043044.D	1	10/03/19 08:20	10/05/19 01:17	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	10.0	U	4.20	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	4.20	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.40	10.0	ug/L
132-64-9	Dibenzofuran	10.0	U	3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	10.0	U	3.10	10.0	ug/L
84-66-2	Diethylphthalate	10.0	U	2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	3.30	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
100-01-6	4-Nitroaniline	10.0	U	3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	10.0	U	2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	10.0	U	2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	10.0	U	2.70	10.0	ug/L
1912-24-9	Atrazine	10.0	U	2.90	10.0	ug/L
87-86-5	Pentachlorophenol	10.0	U	4.30	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
86-74-8	Carbazole	10.0	U	3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	10.0	U	3.70	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	10.0	U	3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	10.0	U	3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-105D	SDG No.:	K5154
Lab Sample ID:	K5154-17	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043044.D	1	10/03/19 08:20	10/05/19 01:17	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U	3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U	2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	89.8		10 - 130	60%	SPK: 150
13127-88-3	Phenol-d6	58.1		10 - 130	39%	SPK: 150
4165-60-0	Nitrobenzene-d5	86.2		36 - 131	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.3		39 - 131	86%	SPK: 100
118-79-6	2,4,6-Tribromophenol	139		25 - 155	93%	SPK: 150
1718-51-0	Terphenyl-d14	95.9		23 - 130	96%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	63500	8.07			
1146-65-2	Naphthalene-d8	237000	10.87			
15067-26-2	Acenaphthene-d10	171000	14.68			
1517-22-2	Phenanthrene-d10	405000	17.42			
1719-03-5	Chrysene-d12	448000	21.69			
1520-96-3	Perylene-d12	522000	24.91			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-104I	SDG No.:	K5154
Lab Sample ID:	K5154-18	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP000527.D	1	10/03/19 08:20	10/04/19 23:13	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	2.90	10.0	ug/L
108-95-2	Phenol	6.50	J	2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	10.0	U	3.40	10.0	ug/L
95-57-8	2-Chlorophenol	10.0	U	2.50	10.0	ug/L
95-48-7	2-Methylphenol	10.0	U	2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	10.0	U	3.00	10.0	ug/L
98-86-2	Acetophenone	10.0	U	3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	10.0	UQ	3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	10.0	U	4.70	10.0	ug/L
67-72-1	Hexachloroethane	10.0	U	2.90	10.0	ug/L
98-95-3	Nitrobenzene	10.0	U	2.60	10.0	ug/L
78-59-1	Isophorone	10.0	U	2.20	10.0	ug/L
88-75-5	2-Nitrophenol	10.0	U	3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	10.0	U	2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	10.0	U	2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	10.0	U	2.30	10.0	ug/L
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
106-47-8	4-Chloroaniline	10.0	U	4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	10.0	U	3.20	10.0	ug/L
105-60-2	Caprolactam	5.00	J	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	10.0	U	2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.0	U	2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	10.0	U	3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	10.0	U	3.00	10.0	ug/L
88-74-4	2-Nitroaniline	10.0	U	3.10	10.0	ug/L
131-11-3	Dimethylphthalate	9.40	JB	2.70	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	10.0	U	3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-104I	SDG No.:	K5154
Lab Sample ID:	K5154-18	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP000527.D	1	10/03/19 08:20	10/04/19 23:13	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	10.0	U	4.20	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	4.20	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.40	10.0	ug/L
132-64-9	Dibenzofuran	10.0	U	3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	10.0	U	3.10	10.0	ug/L
84-66-2	Diethylphthalate	10.0	U	2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	3.30	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
100-01-6	4-Nitroaniline	10.0	U	3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	10.0	U	2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	10.0	U	2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	10.0	U	2.70	10.0	ug/L
1912-24-9	Atrazine	10.0	U	2.90	10.0	ug/L
87-86-5	Pentachlorophenol	10.0	U	4.30	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
86-74-8	Carbazole	10.0	U	3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	10.0	U	3.70	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	10.0	U	3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	10.0	U	3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-104I	SDG No.:	K5154
Lab Sample ID:	K5154-18	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP000527.D	1	10/03/19 08:20	10/04/19 23:13	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U	3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U	2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	82.9		10 - 130	55%	SPK: 150
13127-88-3	Phenol-d6	47.0		10 - 130	31%	SPK: 150
4165-60-0	Nitrobenzene-d5	67.6		36 - 131	68%	SPK: 100
321-60-8	2-Fluorobiphenyl	68.7		39 - 131	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	117		25 - 155	78%	SPK: 150
1718-51-0	Terphenyl-d14	74.7		23 - 130	75%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	182000	6.77			
1146-65-2	Naphthalene-d8	728000	8.05			
15067-26-2	Acenaphthene-d10	418000	9.81			
1517-22-2	Phenanthrene-d10	949000	11.31			
1719-03-5	Chrysene-d12	842000	13.97			
1520-96-3	Perylene-d12	913000	15.46			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-104D	SDG No.:	K5154
Lab Sample ID:	K5154-19	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP000528.D	1	10/03/19 08:20	10/04/19 23:37	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	2.90	10.0	ug/L
108-95-2	Phenol	4.50	J	2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	10.0	U	3.40	10.0	ug/L
95-57-8	2-Chlorophenol	10.0	U	2.50	10.0	ug/L
95-48-7	2-Methylphenol	10.0	U	2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	10.0	U	3.00	10.0	ug/L
98-86-2	Acetophenone	10.0	U	3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	10.0	UQ	3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	10.0	U	4.70	10.0	ug/L
67-72-1	Hexachloroethane	10.0	U	2.90	10.0	ug/L
98-95-3	Nitrobenzene	10.0	U	2.60	10.0	ug/L
78-59-1	Isophorone	10.0	U	2.20	10.0	ug/L
88-75-5	2-Nitrophenol	10.0	U	3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	10.0	U	2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	10.0	U	2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	10.0	U	2.30	10.0	ug/L
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
106-47-8	4-Chloroaniline	10.0	U	4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	10.0	U	3.20	10.0	ug/L
105-60-2	Caprolactam	11.9		3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	10.0	U	2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.0	U	2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	10.0	U	3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	10.0	U	3.00	10.0	ug/L
88-74-4	2-Nitroaniline	10.0	U	3.10	10.0	ug/L
131-11-3	Dimethylphthalate	7.90	JB	2.70	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	10.0	U	3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-104D	SDG No.:	K5154
Lab Sample ID:	K5154-19	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP000528.D	1	10/03/19 08:20	10/04/19 23:37	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	10.0	U	4.20	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	4.20	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.40	10.0	ug/L
132-64-9	Dibenzofuran	10.0	U	3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	10.0	U	3.10	10.0	ug/L
84-66-2	Diethylphthalate	10.0	U	2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	3.30	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
100-01-6	4-Nitroaniline	10.0	U	3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	10.0	U	2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	10.0	U	2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	10.0	U	2.70	10.0	ug/L
1912-24-9	Atrazine	10.0	U	2.90	10.0	ug/L
87-86-5	Pentachlorophenol	10.0	U	4.30	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
86-74-8	Carbazole	10.0	U	3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	10.0	U	3.70	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	10.0	U	3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	10.0	U	3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-104D	SDG No.:	K5154
Lab Sample ID:	K5154-19	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP000528.D	1	10/03/19 08:20	10/04/19 23:37	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U	3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U	2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	78.9		10 - 130	53%	SPK: 150
13127-88-3	Phenol-d6	62.3		10 - 130	42%	SPK: 150
4165-60-0	Nitrobenzene-d5	75.5		36 - 131	76%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.0		39 - 131	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	114		25 - 155	76%	SPK: 150
1718-51-0	Terphenyl-d14	77.7		23 - 130	78%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	304000	6.77			
1146-65-2	Naphthalene-d8	1100000	8.05			
15067-26-2	Acenaphthene-d10	585000	9.81			
1517-22-2	Phenanthrene-d10	1020000	11.31			
1719-03-5	Chrysene-d12	800000	13.97			
1520-96-3	Perylene-d12	502000	15.46			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-102S	SDG No.:	K5154
Lab Sample ID:	K5154-21	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043073.D	1	10/07/19 11:48	10/07/19 18:32	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	2.90	10.0	ug/L
108-95-2	Phenol	7.50	J	2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	10.0	U	3.40	10.0	ug/L
95-57-8	2-Chlorophenol	10.0	U	2.50	10.0	ug/L
95-48-7	2-Methylphenol	10.0	U	2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	10.0	U	3.00	10.0	ug/L
98-86-2	Acetophenone	10.0	U	3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	10.0	U	4.70	10.0	ug/L
67-72-1	Hexachloroethane	10.0	U	2.90	10.0	ug/L
98-95-3	Nitrobenzene	10.0	U	2.60	10.0	ug/L
78-59-1	Isophorone	10.0	U	2.20	10.0	ug/L
88-75-5	2-Nitrophenol	10.0	U	3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	10.0	U	2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	10.0	U	2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	10.0	U	2.30	10.0	ug/L
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
106-47-8	4-Chloroaniline	10.0	U	4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	10.0	U	3.20	10.0	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	10.0	U	2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.0	U	2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	10.0	U	3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	10.0	U	3.00	10.0	ug/L
88-74-4	2-Nitroaniline	10.0	U	3.10	10.0	ug/L
131-11-3	Dimethylphthalate	11.6		2.70	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	10.0	U	3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-102S	SDG No.:	K5154
Lab Sample ID:	K5154-21	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043073.D	1	10/07/19 11:48	10/07/19 18:32	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	10.0	U	4.20	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	4.20	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.40	10.0	ug/L
132-64-9	Dibenzofuran	10.0	U	3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	10.0	U	3.10	10.0	ug/L
84-66-2	Diethylphthalate	10.0	U	2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	3.30	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
100-01-6	4-Nitroaniline	10.0	U	3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	10.0	U	2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	10.0	U	2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	10.0	U	2.70	10.0	ug/L
1912-24-9	Atrazine	10.0	U	2.90	10.0	ug/L
87-86-5	Pentachlorophenol	10.0	U	4.30	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
86-74-8	Carbazole	10.0	U	3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	10.0	U	3.70	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	10.0	U	3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	10.0	U	3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-102S	SDG No.:	K5154
Lab Sample ID:	K5154-21	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043073.D	1	10/07/19 11:48	10/07/19 18:32	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U	3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U	2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	80.2		10 - 130	53%	SPK: 150
13127-88-3	Phenol-d6	53.5		10 - 130	36%	SPK: 150
4165-60-0	Nitrobenzene-d5	77.3		36 - 131	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	76.8		39 - 131	77%	SPK: 100
118-79-6	2,4,6-Tribromophenol	138		25 - 155	92%	SPK: 150
1718-51-0	Terphenyl-d14	93.6		23 - 130	94%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	47600	8.06			
1146-65-2	Naphthalene-d8	189000	10.86			
15067-26-2	Acenaphthene-d10	154000	14.68			
1517-22-2	Phenanthrene-d10	401000	17.42			
1719-03-5	Chrysene-d12	435000	21.69			
1520-96-3	Perylene-d12	505000	24.91			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-102I	SDG No.:	K5154
Lab Sample ID:	K5154-22	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043074.D	1	10/07/19 11:48	10/07/19 19:10	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	2.90	10.0	ug/L
108-95-2	Phenol	4.00	J	2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	10.0	U	3.40	10.0	ug/L
95-57-8	2-Chlorophenol	10.0	U	2.50	10.0	ug/L
95-48-7	2-Methylphenol	10.0	U	2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	10.0	U	3.00	10.0	ug/L
98-86-2	Acetophenone	10.0	U	3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	10.0	U	4.70	10.0	ug/L
67-72-1	Hexachloroethane	10.0	U	2.90	10.0	ug/L
98-95-3	Nitrobenzene	10.0	U	2.60	10.0	ug/L
78-59-1	Isophorone	10.0	U	2.20	10.0	ug/L
88-75-5	2-Nitrophenol	10.0	U	3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	10.0	U	2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	10.0	U	2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	10.0	U	2.30	10.0	ug/L
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
106-47-8	4-Chloroaniline	10.0	U	4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	10.0	U	3.20	10.0	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	10.0	U	2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.0	U	2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	10.0	U	3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	10.0	U	3.00	10.0	ug/L
88-74-4	2-Nitroaniline	10.0	U	3.10	10.0	ug/L
131-11-3	Dimethylphthalate	7.30	J	2.70	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	10.0	U	3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-102I	SDG No.:	K5154
Lab Sample ID:	K5154-22	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043074.D	1	10/07/19 11:48	10/07/19 19:10	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	10.0	U	4.20	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	4.20	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.40	10.0	ug/L
132-64-9	Dibenzofuran	10.0	U	3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	10.0	U	3.10	10.0	ug/L
84-66-2	Diethylphthalate	10.0	U	2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	3.30	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
100-01-6	4-Nitroaniline	10.0	U	3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	10.0	U	2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	10.0	U	2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	10.0	U	2.70	10.0	ug/L
1912-24-9	Atrazine	10.0	U	2.90	10.0	ug/L
87-86-5	Pentachlorophenol	10.0	U	4.30	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
86-74-8	Carbazole	10.0	U	3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	10.0	U	3.70	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	10.0	U	3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	10.0	U	3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-102I	SDG No.:	K5154
Lab Sample ID:	K5154-22	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043074.D	1	10/07/19 11:48	10/07/19 19:10	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U	3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U	2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	85.0		10 - 130	57%	SPK: 150
13127-88-3	Phenol-d6	55.1		10 - 130	37%	SPK: 150
4165-60-0	Nitrobenzene-d5	85.4		36 - 131	85%	SPK: 100
321-60-8	2-Fluorobiphenyl	85.5		39 - 131	85%	SPK: 100
118-79-6	2,4,6-Tribromophenol	145		25 - 155	97%	SPK: 150
1718-51-0	Terphenyl-d14	99.5		23 - 130	100%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	46700	8.06			
1146-65-2	Naphthalene-d8	180000	10.86			
15067-26-2	Acenaphthene-d10	146000	14.68			
1517-22-2	Phenanthrene-d10	381000	17.42			
1719-03-5	Chrysene-d12	415000	21.69			
1520-96-3	Perylene-d12	479000	24.91			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-102D	SDG No.:	K5154
Lab Sample ID:	K5154-23	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043075.D	1	10/07/19 11:48	10/07/19 19:48	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	2.90	10.0	ug/L
108-95-2	Phenol	6.80	J	2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	10.0	U	3.40	10.0	ug/L
95-57-8	2-Chlorophenol	10.0	U	2.50	10.0	ug/L
95-48-7	2-Methylphenol	10.0	U	2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	10.0	U	3.00	10.0	ug/L
98-86-2	Acetophenone	10.0	U	3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	10.0	U	4.70	10.0	ug/L
67-72-1	Hexachloroethane	10.0	U	2.90	10.0	ug/L
98-95-3	Nitrobenzene	10.0	U	2.60	10.0	ug/L
78-59-1	Isophorone	10.0	U	2.20	10.0	ug/L
88-75-5	2-Nitrophenol	10.0	U	3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	10.0	U	2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	10.0	U	2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	10.0	U	2.30	10.0	ug/L
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
106-47-8	4-Chloroaniline	10.0	U	4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	10.0	U	3.20	10.0	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	10.0	U	2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.0	U	2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	10.0	U	3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	10.0	U	3.00	10.0	ug/L
88-74-4	2-Nitroaniline	10.0	U	3.10	10.0	ug/L
131-11-3	Dimethylphthalate	11.3		2.70	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	10.0	U	3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-102D	SDG No.:	K5154
Lab Sample ID:	K5154-23	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043075.D	1	10/07/19 11:48	10/07/19 19:48	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	10.0	U	4.20	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	4.20	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.40	10.0	ug/L
132-64-9	Dibenzofuran	10.0	U	3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	10.0	U	3.10	10.0	ug/L
84-66-2	Diethylphthalate	10.0	U	2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	3.30	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
100-01-6	4-Nitroaniline	10.0	U	3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	10.0	U	2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	10.0	U	2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	10.0	U	2.70	10.0	ug/L
1912-24-9	Atrazine	10.0	U	2.90	10.0	ug/L
87-86-5	Pentachlorophenol	10.0	U	4.30	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
86-74-8	Carbazole	10.0	U	3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	10.0	U	3.70	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	10.0	U	3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	10.0	U	3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-102D	SDG No.:	K5154
Lab Sample ID:	K5154-23	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043075.D	1	10/07/19 11:48	10/07/19 19:48	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U	3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U	2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	83.0		10 - 130	55%	SPK: 150
13127-88-3	Phenol-d6	52.6		10 - 130	35%	SPK: 150
4165-60-0	Nitrobenzene-d5	81.1		36 - 131	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	82.3		39 - 131	82%	SPK: 100
118-79-6	2,4,6-Tribromophenol	137		25 - 155	91%	SPK: 150
1718-51-0	Terphenyl-d14	93.7		23 - 130	94%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	50500	8.06			
1146-65-2	Naphthalene-d8	196000	10.86			
15067-26-2	Acenaphthene-d10	157000	14.67			
1517-22-2	Phenanthrene-d10	406000	17.42			
1719-03-5	Chrysene-d12	438000	21.69			
1520-96-3	Perylene-d12	515000	24.9			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-101S	SDG No.:	K5154
Lab Sample ID:	K5154-24	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043076.D	1	10/07/19 11:48	10/07/19 20:27	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	2.90	10.0	ug/L
108-95-2	Phenol	3.60	J	2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	10.0	U	3.40	10.0	ug/L
95-57-8	2-Chlorophenol	10.0	U	2.50	10.0	ug/L
95-48-7	2-Methylphenol	10.0	U	2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	10.0	U	3.00	10.0	ug/L
98-86-2	Acetophenone	10.0	U	3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	10.0	U	4.70	10.0	ug/L
67-72-1	Hexachloroethane	10.0	U	2.90	10.0	ug/L
98-95-3	Nitrobenzene	10.0	U	2.60	10.0	ug/L
78-59-1	Isophorone	10.0	U	2.20	10.0	ug/L
88-75-5	2-Nitrophenol	10.0	U	3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	10.0	U	2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	10.0	U	2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	10.0	U	2.30	10.0	ug/L
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
106-47-8	4-Chloroaniline	10.0	U	4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	10.0	U	3.20	10.0	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	10.0	U	2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.0	U	2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	10.0	U	3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	10.0	U	3.00	10.0	ug/L
88-74-4	2-Nitroaniline	10.0	U	3.10	10.0	ug/L
131-11-3	Dimethylphthalate	8.10	J	2.70	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	10.0	U	3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-101S	SDG No.:	K5154
Lab Sample ID:	K5154-24	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043076.D	1	10/07/19 11:48	10/07/19 20:27	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	10.0	U	4.20	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	4.20	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.40	10.0	ug/L
132-64-9	Dibenzofuran	10.0	U	3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	10.0	U	3.10	10.0	ug/L
84-66-2	Diethylphthalate	10.0	U	2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	3.30	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
100-01-6	4-Nitroaniline	10.0	U	3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	10.0	U	2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	10.0	U	2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	10.0	U	2.70	10.0	ug/L
1912-24-9	Atrazine	10.0	U	2.90	10.0	ug/L
87-86-5	Pentachlorophenol	10.0	U	4.30	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
86-74-8	Carbazole	10.0	U	3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	10.0	U	3.70	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	10.0	U	3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	10.0	U	3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-101S	SDG No.:	K5154
Lab Sample ID:	K5154-24	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043076.D	1	10/07/19 11:48	10/07/19 20:27	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U	3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U	2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	79.7		10 - 130	53%	SPK: 150
13127-88-3	Phenol-d6	52.8		10 - 130	35%	SPK: 150
4165-60-0	Nitrobenzene-d5	83.9		36 - 131	84%	SPK: 100
321-60-8	2-Fluorobiphenyl	85.0		39 - 131	85%	SPK: 100
118-79-6	2,4,6-Tribromophenol	148		25 - 155	99%	SPK: 150
1718-51-0	Terphenyl-d14	103		23 - 130	103%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	56300	8.06			
1146-65-2	Naphthalene-d8	213000	10.86			
15067-26-2	Acenaphthene-d10	166000	14.68			
1517-22-2	Phenanthrene-d10	406000	17.42			
1719-03-5	Chrysene-d12	418000	21.69			
1520-96-3	Perylene-d12	488000	24.91			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-1011	SDG No.:	K5154
Lab Sample ID:	K5154-25	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP000558.D	1	10/07/19 11:48	10/07/19 21:21	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	2.90	10.0	ug/L
108-95-2	Phenol	4.60	J	2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	10.0	U	3.40	10.0	ug/L
95-57-8	2-Chlorophenol	10.0	U	2.50	10.0	ug/L
95-48-7	2-Methylphenol	10.0	U	2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	10.0	U	3.00	10.0	ug/L
98-86-2	Acetophenone	10.0	U	3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	10.0	U	4.70	10.0	ug/L
67-72-1	Hexachloroethane	10.0	U	2.90	10.0	ug/L
98-95-3	Nitrobenzene	10.0	U	2.60	10.0	ug/L
78-59-1	Isophorone	10.0	U	2.20	10.0	ug/L
88-75-5	2-Nitrophenol	10.0	U	3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	10.0	U	2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	10.0	U	2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	10.0	U	2.30	10.0	ug/L
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
106-47-8	4-Chloroaniline	10.0	U	4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	10.0	U	3.20	10.0	ug/L
105-60-2	Caprolactam	6.00	J	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	10.0	U	2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.0	U	2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	10.0	U	3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	10.0	U	3.00	10.0	ug/L
88-74-4	2-Nitroaniline	10.0	U	3.10	10.0	ug/L
131-11-3	Dimethylphthalate	5.10	J	2.70	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	10.0	U	3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-1011	SDG No.:	K5154
Lab Sample ID:	K5154-25	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP000558.D	1	10/07/19 11:48	10/07/19 21:21	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	10.0	U	4.20	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	4.20	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.40	10.0	ug/L
132-64-9	Dibenzofuran	10.0	U	3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	10.0	U	3.10	10.0	ug/L
84-66-2	Diethylphthalate	10.0	U	2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	3.30	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
100-01-6	4-Nitroaniline	10.0	U	3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	10.0	U	2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	10.0	U	2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	10.0	U	2.70	10.0	ug/L
1912-24-9	Atrazine	10.0	U	2.90	10.0	ug/L
87-86-5	Pentachlorophenol	10.0	U	4.30	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
86-74-8	Carbazole	10.0	U	3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	10.0	U	3.70	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	10.0	U	3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	10.0	U	3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-1011	SDG No.:	K5154
Lab Sample ID:	K5154-25	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP000558.D	1	10/07/19 11:48	10/07/19 21:21	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U	3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U	2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	75.0		10 - 130	50%	SPK: 150
13127-88-3	Phenol-d6	52.8		10 - 130	35%	SPK: 150
4165-60-0	Nitrobenzene-d5	78.4		36 - 131	78%	SPK: 100
321-60-8	2-Fluorobiphenyl	80.4		39 - 131	80%	SPK: 100
118-79-6	2,4,6-Tribromophenol	118		25 - 155	79%	SPK: 150
1718-51-0	Terphenyl-d14	80.5		23 - 130	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	281000	6.76			
1146-65-2	Naphthalene-d8	1010000	8.05			
15067-26-2	Acenaphthene-d10	551000	9.81			
1517-22-2	Phenanthrene-d10	993000	11.31			
1719-03-5	Chrysene-d12	880000	13.98			
1520-96-3	Perylene-d12	872000	15.46			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-101D	SDG No.:	K5154
Lab Sample ID:	K5154-26	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043077.D	1	10/07/19 11:48	10/07/19 21:05	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	2.90	10.0	ug/L
108-95-2	Phenol	6.20	J	2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	10.0	U	3.40	10.0	ug/L
95-57-8	2-Chlorophenol	10.0	U	2.50	10.0	ug/L
95-48-7	2-Methylphenol	10.0	U	2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	10.0	U	3.00	10.0	ug/L
98-86-2	Acetophenone	10.0	U	3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	10.0	U	4.70	10.0	ug/L
67-72-1	Hexachloroethane	10.0	U	2.90	10.0	ug/L
98-95-3	Nitrobenzene	10.0	U	2.60	10.0	ug/L
78-59-1	Isophorone	10.0	U	2.20	10.0	ug/L
88-75-5	2-Nitrophenol	10.0	U	3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	10.0	U	2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	10.0	U	2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	10.0	U	2.30	10.0	ug/L
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
106-47-8	4-Chloroaniline	10.0	U	4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	10.0	U	3.20	10.0	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	10.0	U	2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.0	U	2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	10.0	U	3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	10.0	U	3.00	10.0	ug/L
88-74-4	2-Nitroaniline	10.0	U	3.10	10.0	ug/L
131-11-3	Dimethylphthalate	8.80	J	2.70	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	10.0	U	3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-101D	SDG No.:	K5154
Lab Sample ID:	K5154-26	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043077.D	1	10/07/19 11:48	10/07/19 21:05	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	10.0	U	4.20	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	4.20	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.40	10.0	ug/L
132-64-9	Dibenzofuran	10.0	U	3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	10.0	U	3.10	10.0	ug/L
84-66-2	Diethylphthalate	10.0	U	2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	3.30	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
100-01-6	4-Nitroaniline	10.0	U	3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	10.0	U	2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	10.0	U	2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	10.0	U	2.70	10.0	ug/L
1912-24-9	Atrazine	10.0	U	2.90	10.0	ug/L
87-86-5	Pentachlorophenol	10.0	U	4.30	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
86-74-8	Carbazole	10.0	U	3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	10.0	U	3.70	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	10.0	U	3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	10.0	U	3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-101D	SDG No.:	K5154
Lab Sample ID:	K5154-26	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043077.D	1	10/07/19 11:48	10/07/19 21:05	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U	3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U	2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	86.2		10 - 130	57%	SPK: 150
13127-88-3	Phenol-d6	57.2		10 - 130	38%	SPK: 150
4165-60-0	Nitrobenzene-d5	82.8		36 - 131	83%	SPK: 100
321-60-8	2-Fluorobiphenyl	81.3		39 - 131	81%	SPK: 100
118-79-6	2,4,6-Tribromophenol	137		25 - 155	91%	SPK: 150
1718-51-0	Terphenyl-d14	99.0		23 - 130	99%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	52900	8.05			
1146-65-2	Naphthalene-d8	205000	10.86			
15067-26-2	Acenaphthene-d10	163000	14.68			
1517-22-2	Phenanthrene-d10	404000	17.42			
1719-03-5	Chrysene-d12	423000	21.68			
1520-96-3	Perylene-d12	485000	24.9			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

QC SUMMARY

Surrogate Summary

SW-846

SDG No.: K5154

Client: TRC Companies, Inc.

Analytical Method: 8270D

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
K5154-02	FB-10012019	2-Fluorophenol	150	88.1	59		10	130
		Phenol-d6	150	57.9	39		10	130
		Nitrobenzene-d5	100	90.2	90		36	131
		2-Fluorobiphenyl	100	93.1	93		39	131
		2,4,6-Tribromophenol	150	137	91		25	155
		Terphenyl-d14	100	96.9	97		23	130
K5154-03	MW-106S	2-Fluorophenol	150	90.3	60		10	130
		Phenol-d6	150	62.6	42		10	130
		Nitrobenzene-d5	100	85.5	85		36	131
		2-Fluorobiphenyl	100	90.6	91		39	131
		2,4,6-Tribromophenol	150	135	90		25	155
		Terphenyl-d14	100	96.9	97		23	130
K5154-04	MW-106I	2-Fluorophenol	150	103	69		10	130
		Phenol-d6	150	72.8	49		10	130
		Nitrobenzene-d5	100	88.1	88		36	131
		2-Fluorobiphenyl	100	90.7	91		39	131
		2,4,6-Tribromophenol	150	134	89		25	155
		Terphenyl-d14	100	96.1	96		23	130
K5154-05	MW-106D	2-Fluorophenol	150	98.7	66		10	130
		Phenol-d6	150	70.0	47		10	130
		Nitrobenzene-d5	100	88.5	88		36	131
		2-Fluorobiphenyl	100	90.6	91		39	131
		2,4,6-Tribromophenol	150	135	90		25	155
		Terphenyl-d14	100	96.8	97		23	130
K5154-06	MW-107	2-Fluorophenol	150	101	67		10	130
		Phenol-d6	150	71.2	47		10	130
		Nitrobenzene-d5	100	88.9	89		36	131
		2-Fluorobiphenyl	100	92.4	92		39	131
		2,4,6-Tribromophenol	150	141	94		25	155
		Terphenyl-d14	100	97.6	98		23	130
PB123559BL	PB123559BL	2-Fluorophenol	150	57.9	39		10	130
		Phenol-d6	150	35.0	23		10	130
		Nitrobenzene-d5	100	96.8	97		36	131
		2-Fluorobiphenyl	100	99.0	99		39	131
		2,4,6-Tribromophenol	150	147	98		25	155
		Terphenyl-d14	100	105	105		23	130
PB123559BS	PB123559BS	2-Fluorophenol	150	118	78		10	130
		Phenol-d6	150	110	73		10	130
		Nitrobenzene-d5	100	65.8	66		36	131
		2-Fluorobiphenyl	100	67.1	67		39	131
		2,4,6-Tribromophenol	150	112	75		25	155
		Terphenyl-d14	100	71.6	72		23	130
PB123559BSD	PB123559BSD	2-Fluorophenol	150	122	81		10	130
		Phenol-d6	150	114	76		10	130
		Nitrobenzene-d5	100	65.9	66		36	131
		2-Fluorobiphenyl	100	66.9	67		39	131
		2,4,6-Tribromophenol	150	112	75		25	155
		Terphenyl-d14	100	70.8	71		23	130

Surrogate Summary

SW-846

SDG No.: K5154

Client: TRC Companies, Inc.

Analytical Method: 8270D

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
K5154-10	MW-103S	2-Fluorophenol	150	78.2	52		10	130
		Phenol-d6	150	52.1	35		10	130
		Nitrobenzene-d5	100	73.2	73		36	131
		2-Fluorobiphenyl	100	74.5	75		39	131
		2,4,6-Tribromophenol	150	116	77		25	155
K5154-11	MW-103I	Terphenyl-d14	100	77.6	78		23	130
		2-Fluorophenol	150	73.1	49		10	130
		Phenol-d6	150	45.7	30		10	130
		Nitrobenzene-d5	100	72.2	72		36	131
		2-Fluorobiphenyl	100	73.2	73		39	131
K5154-12MS	MW-103IMS	2,4,6-Tribromophenol	150	115	77		25	155
		Terphenyl-d14	100	78.2	78		23	130
		2-Fluorophenol	150	81.2	54		10	130
		Phenol-d6	150	53.8	36		10	130
		Nitrobenzene-d5	100	74.6	75		36	131
K5154-13MSD	MW-103IMSD	2-Fluorobiphenyl	100	73.2	73		39	131
		2,4,6-Tribromophenol	150	123	82		25	155
		Terphenyl-d14	100	81.7	82		23	130
		2-Fluorophenol	150	76.6	51		10	130
		Phenol-d6	150	48.9	33		10	130
K5154-14	MW-103D	Nitrobenzene-d5	100	75.6	76		36	131
		2-Fluorobiphenyl	100	71.4	71		39	131
		2,4,6-Tribromophenol	150	115	77		25	155
		Terphenyl-d14	100	77.8	78		23	130
		2-Fluorophenol	150	78.1	52		10	130
K5154-15	MW-105S	Phenol-d6	150	51.6	34		10	130
		Nitrobenzene-d5	100	73.1	73		36	131
		2-Fluorobiphenyl	100	71.3	71		39	131
		2,4,6-Tribromophenol	150	116	78		25	155
		Terphenyl-d14	100	79.9	80		23	130
K5154-16	MW-105I	2-Fluorophenol	150	77.2	51		10	130
		Phenol-d6	150	49.8	33		10	130
		Nitrobenzene-d5	100	70.5	71		36	131
		2-Fluorobiphenyl	100	72.8	73		39	131
		2,4,6-Tribromophenol	150	116	77		25	155
K5154-17	MW-105D	Terphenyl-d14	100	76.6	77		23	130
		2-Fluorophenol	150	76.8	51		10	130
		Phenol-d6	150	51.2	34		10	130
		Nitrobenzene-d5	100	71.3	71		36	131
		2-Fluorobiphenyl	100	71.8	72		39	131
K5154-18	MW-104I	2,4,6-Tribromophenol	150	117	78		25	155
		Terphenyl-d14	100	82.5	83		23	130
		2-Fluorophenol	150	89.8	60		10	130
		Phenol-d6	150	58.1	39		10	130
		Nitrobenzene-d5	100	86.2	86		36	131
		2-Fluorobiphenyl	100	86.3	86		39	131
		2,4,6-Tribromophenol	150	139	93		25	155
		Terphenyl-d14	100	95.9	96		23	130
		2-Fluorophenol	150	82.9	55		10	130
		Phenol-d6	150	47.0	31		10	130
		Nitrobenzene-d5	100	67.6	68		36	131
		2-Fluorobiphenyl	100	68.7	69		39	131

Surrogate Summary

SW-846

SDG No.: K5154

Client: TRC Companies, Inc.

Analytical Method: 8270D

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
K5154-18	MW-104I	2,4,6-Tribromophenol	150	117	78		25	155
		Terphenyl-d14	100	74.7	75		23	130
K5154-19	MW-104D	2-Fluorophenol	150	78.9	53		10	130
		Phenol-d6	150	62.3	42		10	130
		Nitrobenzene-d5	100	75.5	76		36	131
		2-Fluorobiphenyl	100	73.0	73		39	131
		2,4,6-Tribromophenol	150	114	76		25	155
		Terphenyl-d14	100	77.7	78		23	130
PB123604BL	PB123604BL	2-Fluorophenol	150	121	80		10	130
		Phenol-d6	150	123	82		10	130
		Nitrobenzene-d5	100	79.6	80		36	131
		2-Fluorobiphenyl	100	83.9	84		39	131
		2,4,6-Tribromophenol	150	144	96		25	155
		Terphenyl-d14	100	99.2	99		23	130
PB123604BS	PB123604BS	2-Fluorophenol	150	118	79		10	130
		Phenol-d6	150	111	74		10	130
		Nitrobenzene-d5	100	64.4	64		36	131
		2-Fluorobiphenyl	100	65.8	66		39	131
		2,4,6-Tribromophenol	150	112	74		25	155
		Terphenyl-d14	100	69.2	69		23	130

Surrogate Summary

SW-846

SDG No.: K5154

Client: TRC Companies, Inc.

Analytical Method: 8270D

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
K5154-21	MW-102S	2-Fluorophenol	150	80.2	53		10	130
		Phenol-d6	150	53.5	36		10	130
		Nitrobenzene-d5	100	77.3	77		36	131
		2-Fluorobiphenyl	100	76.8	77		39	131
		2,4,6-Tribromophenol	150	138	92		25	155
		Terphenyl-d14	100	93.6	94		23	130
K5154-22	MW-102I	2-Fluorophenol	150	85.0	57		10	130
		Phenol-d6	150	55.1	37		10	130
		Nitrobenzene-d5	100	85.4	85		36	131
		2-Fluorobiphenyl	100	85.5	85		39	131
		2,4,6-Tribromophenol	150	145	97		25	155
		Terphenyl-d14	100	99.5	100		23	130
K5154-23	MW-102D	2-Fluorophenol	150	83.0	55		10	130
		Phenol-d6	150	52.6	35		10	130
		Nitrobenzene-d5	100	81.1	81		36	131
		2-Fluorobiphenyl	100	82.3	82		39	131
		2,4,6-Tribromophenol	150	137	91		25	155
		Terphenyl-d14	100	93.7	94		23	130
K5154-24	MW-101S	2-Fluorophenol	150	79.7	53		10	130
		Phenol-d6	150	52.8	35		10	130
		Nitrobenzene-d5	100	83.9	84		36	131
		2-Fluorobiphenyl	100	85.0	85		39	131
		2,4,6-Tribromophenol	150	148	99		25	155
		Terphenyl-d14	100	103	103		23	130
K5154-25	MW-101I	2-Fluorophenol	150	75.0	50		10	130
		Phenol-d6	150	52.8	35		10	130
		Nitrobenzene-d5	100	78.4	78		36	131
		2-Fluorobiphenyl	100	80.4	80		39	131
		2,4,6-Tribromophenol	150	118	79		25	155
		Terphenyl-d14	100	80.5	80		23	130
K5154-26	MW-101D	2-Fluorophenol	150	86.2	57		10	130
		Phenol-d6	150	57.2	38		10	130
		Nitrobenzene-d5	100	82.8	83		36	131
		2-Fluorobiphenyl	100	81.3	81		39	131
		2,4,6-Tribromophenol	150	137	91		25	155
		Terphenyl-d14	100	99.0	99		23	130
PB123704BL	PB123704BL	2-Fluorophenol	150	140	93		10	130
		Phenol-d6	150	133	88		10	130
		Nitrobenzene-d5	100	95.7	96		36	131
		2-Fluorobiphenyl	100	99.3	99		39	131
		2,4,6-Tribromophenol	150	163	109		25	155
		Terphenyl-d14	100	108	108		23	130
PB123704BS	PB123704BS	2-Fluorophenol	150	124	83		10	130
		Phenol-d6	150	118	79		10	130
		Nitrobenzene-d5	100	59.3	59		36	131
		2-Fluorobiphenyl	100	61.9	62		39	131
		2,4,6-Tribromophenol	150	120	80		25	155
		Terphenyl-d14	100	69.5	70		23	130
PB123704BSD	PB123704BSD	2-Fluorophenol	150	124	83		10	130
		Phenol-d6	150	117	78		10	130
		Nitrobenzene-d5	100	60.4	60		36	131
		2-Fluorobiphenyl	100	62.6	63		39	131

Surrogate Summary

SW-846

SDG No.: K5154

Client: TRC Companies, Inc.

Analytical Method: 8270D

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB123704BSD	PB123704BSD	2,4,6-Tribromophenol	150	118	78		25	155
		Terphenyl-d14	100	68.8	69		23	130

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: **K5154**

Client: **TRC Companies, Inc.**

Analytical Method: **SW8270D**

		Sample				Rec	RPD		Limits		
Parameter	Spike	Result	Result	Units	Rec	Qual	RPD	Qual	Low	High	RPD
Lab Sample ID:	K5154-12MS	Client Sample ID:	MW-103IMS					DataFile:	BG043039.D		
Benzaldehyde	50	0	35.2	ug/L	70				10	137	
Phenol	50	6.90	23.9	ug/L	34				10	130	
bis(2-Chloroethyl)ether	50	0	37.2	ug/L	74				29	141	
2-Chlorophenol	50	0	42.3	ug/L	85				23	127	
2-Methylphenol	50	0	39.0	ug/L	78				14	118	
2,2-oxybis(1-Chloropropane)	50	0	29.8	ug/L	60				36	141	
Acetophenone	50	0	37.6	ug/L	75				31	164	
3+4-Methylphenols	50	0	35.7	ug/L	71				12	109	
N-Nitroso-di-n-propylamine	50	0	37.5	ug/L	75				36	147	
Hexachloroethane	50	0	30.2	ug/L	60				19	149	
Nitrobenzene	50	0	39.3	ug/L	79				30	150	
Isophorone	50	0	40.5	ug/L	81				39	146	
2-Nitrophenol	50	0	46.2	ug/L	92				30	148	
2,4-Dimethylphenol	50	0	50.7	ug/L	101				17	143	
bis(2-Chloroethoxy)methane	50	0	39.8	ug/L	80				39	143	
2,4-Dichlorophenol	50	0	45.7	ug/L	91				22	146	
Naphthalene	50	0	38.4	ug/L	77				17	157	
4-Chloroaniline	50	0	17.0	ug/L	34				10	95	
Hexachlorobutadiene	50	0	32.2	ug/L	64				20	150	
Caprolactam	50	0	14.7	ug/L	29				10	130	
4-Chloro-3-methylphenol	50	0	44.9	ug/L	90				17	148	
2-Methylnaphthalene	50	0	39.7	ug/L	79				38	146	
Hexachlorocyclopentadiene	100	0	70.5	ug/L	71				20	153	
2,4,6-Trichlorophenol	50	0	44.7	ug/L	89				24	155	
2,4,5-Trichlorophenol	50	0	45.7	ug/L	91				26	154	
1,1-Biphenyl	50	0	38.0	ug/L	76				38	154	
2-Chloronaphthalene	50	0	39.2	ug/L	78				41	145	
2-Nitroaniline	50	0	40.7	ug/L	81				39	151	
Dimethylphthalate	50	18.3	52.1	ug/L	68				42	147	
Acenaphthylene	50	0	41.4	ug/L	83				40	141	
2,6-Dinitrotoluene	50	0	44.2	ug/L	88				43	148	
3-Nitroaniline	50	0	21.6	ug/L	43				10	111	
Acenaphthene	50	0	39.0	ug/L	78				37	146	
2,4-Dinitrophenol	100	0	93.7	ug/L	94				14	167	
4-Nitrophenol	100	0	48.0	ug/L	48				10	130	
Dibenzofuran	50	0	41.0	ug/L	82				41	145	
2,4-Dinitrotoluene	50	0	42.4	ug/L	85				41	152	
Diethylphthalate	50	0	41.0	ug/L	82				41	148	
4-Chlorophenyl-phenylether	50	0	40.0	ug/L	80				38	149	
Fluorene	50	0	41.0	ug/L	82				39	144	
4-Nitroaniline	50	0	39.9	ug/L	80				27	138	
4,6-Dinitro-2-methylphenol	50	0	49.0	ug/L	98				32	175	
N-Nitrosodiphenylamine	50	0	43.7	ug/L	87				40	150	
4-Bromophenyl-phenylether	50	0	42.0	ug/L	84				42	151	
Hexachlorobenzene	50	0	41.0	ug/L	82				33	154	
Atrazine	50	0	39.6	ug/L	79				20	162	
Pentachlorophenol	100	0	91.8	ug/L	92				28	171	

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: K5154

Client: TRC Companies, Inc.

Analytical Method: SW8270D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec		RPD		Limits	
						Qual	RPD	Qual	Low	High	RPD
Phenanthrene	50	0	41.6	ug/L	83				40	147	
Anthracene	50	0	42.5	ug/L	85				41	146	
Carbazole	50	0	42.3	ug/L	85				37	154	
Di-n-butylphthalate	50	0	40.5	ug/L	81				40	151	
Fluoranthene	50	0	40.5	ug/L	81				42	146	
Pyrene	50	0	40.8	ug/L	82				41	149	
Butylbenzylphthalate	50	0	41.8	ug/L	84				39	155	
3,3-Dichlorobenzidine	50	0	21.4	ug/L	43				10	114	
Benzo(a)anthracene	50	0	40.4	ug/L	81				41	147	
Chrysene	50	0	40.8	ug/L	82				44	144	
bis(2-Ethylhexyl)phthalate	50	0	42.1	ug/L	84				33	160	
Di-n-octyl phthalate	50	0	43.9	ug/L	88				36	158	
Benzo(b)fluoranthene	50	0	40.9	ug/L	82				40	150	
Benzo(k)fluoranthene	50	0	40.4	ug/L	81				40	147	
Benzo(a)pyrene	50	0	42.5	ug/L	85				42	147	
Indeno(1,2,3-cd)pyrene	50	0	43.6	ug/L	87				30	166	
Dibenz(a,h)anthracene	50	0	42.7	ug/L	85				23	172	
Benzo(g,h,i)perylene	50	0	43.1	ug/L	86				27	167	
1,2,4,5-Tetrachlorobenzene	50	0	37.2	ug/L	74	*			89	102	
2,3,4,6-Tetrachlorophenol	50	0	42.6	ug/L	85	*			91	111	

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: **K5154**

Client: **TRC Companies, Inc.**

Analytical Method: **SW8270D**

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	K5154-13MSD	Client Sample ID:	MW-1031MSD					DataFile:	BG043040.D		
Benzaldehyde	50	0	35.8	ug/L	72		3		10	137	20
Phenol	50	6.90	24.1	ug/L	34		0		10	130	20
bis(2-Chloroethyl)ether	50	0	36.7	ug/L	73		1		29	141	20
2-Chlorophenol	50	0	41.6	ug/L	83		2		23	127	20
2-Methylphenol	50	0	37.5	ug/L	75		4		14	118	20
2,2-oxybis(1-Chloropropane)	50	0	29.9	ug/L	60		0		36	141	20
Acetophenone	50	0	38.5	ug/L	77		3		31	164	20
3+4-Methylphenols	50	0	33.6	ug/L	67		6		12	109	20
N-Nitroso-di-n-propylamine	50	0	36.0	ug/L	72		4		36	147	20
Hexachloroethane	50	0	30.5	ug/L	61		2		19	149	20
Nitrobenzene	50	0	39.8	ug/L	80		1		30	150	20
Isophorone	50	0	40.3	ug/L	81		0		39	146	20
2-Nitrophenol	50	0	47.4	ug/L	95		3		30	148	20
2,4-Dimethylphenol	50	0	50.0	ug/L	100		1		17	143	20
bis(2-Chloroethoxy)methane	50	0	39.3	ug/L	79		1		39	143	20
2,4-Dichlorophenol	50	0	45.0	ug/L	90		1		22	146	20
Naphthalene	50	0	39.1	ug/L	78		1		17	157	20
4-Chloroaniline	50	0	19.7	ug/L	39		14		10	95	20
Hexachlorobutadiene	50	0	33.1	ug/L	66		3		20	150	20
Caprolactam	50	0	13.8	ug/L	28		4		10	130	20
4-Chloro-3-methylphenol	50	0	43.6	ug/L	87		3		17	148	20
2-Methylnaphthalene	50	0	39.5	ug/L	79		0		38	146	20
Hexachlorocyclopentadiene	100	0	71.3	ug/L	71		0		20	153	20
2,4,6-Trichlorophenol	50	0	41.8	ug/L	84		6		24	155	20
2,4,5-Trichlorophenol	50	0	42.6	ug/L	85		7		26	154	20
1,1-Biphenyl	50	0	36.9	ug/L	74		3		38	154	20
2-Chloronaphthalene	50	0	38.4	ug/L	77		1		41	145	20
2-Nitroaniline	50	0	37.9	ug/L	76		6		39	151	20
Dimethylphthalate	50	18.3	49.2	ug/L	62		9		42	147	20
Acenaphthylene	50	0	39.8	ug/L	80		4		40	141	20
2,6-Dinitrotoluene	50	0	42.3	ug/L	85		3		43	148	20
3-Nitroaniline	50	0	21.9	ug/L	44		2		10	111	20
Acenaphthene	50	0	37.1	ug/L	74		5		37	146	20
2,4-Dinitrophenol	100	0	84.7	ug/L	85		10		14	167	20
4-Nitrophenol	100	0	41.7	ug/L	42		13		10	130	20
Dibenzofuran	50	0	39.2	ug/L	78		5		41	145	20
2,4-Dinitrotoluene	50	0	39.4	ug/L	79		7		41	152	20
Diethylphthalate	50	0	37.2	ug/L	74		10		41	148	20
4-Chlorophenyl-phenylether	50	0	37.2	ug/L	74		8		38	149	20
Fluorene	50	0	38.3	ug/L	77		6		39	144	20
4-Nitroaniline	50	0	36.7	ug/L	73		9		27	138	20
4,6-Dinitro-2-methylphenol	50	0	46.4	ug/L	93		5		32	175	20
N-Nitrosodiphenylamine	50	0	41.7	ug/L	83		5		40	150	20
4-Bromophenyl-phenylether	50	0	41.1	ug/L	82		2		42	151	20
Hexachlorobenzene	50	0	40.0	ug/L	80		2		33	154	20
Atrazine	50	0	37.4	ug/L	75		5		20	162	20
Pentachlorophenol	100	0	85.2	ug/L	85		8		28	171	20

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: K5154

Client: TRC Companies, Inc.

Analytical Method: SW8270D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec		RPD		Limits	
						Qual	RPD	Qual	Low	High	RPD
Phenanthrene	50	0	39.7	ug/L	79		5		40	147	20
Anthracene	50	0	40.7	ug/L	81		5		41	146	20
Carbazole	50	0	39.7	ug/L	79		7		37	154	20
Di-n-butylphthalate	50	0	37.9	ug/L	76		6		40	151	20
Fluoranthene	50	0	37.7	ug/L	75		8		42	146	20
Pyrene	50	0	39.1	ug/L	78		5		41	149	20
Butylbenzylphthalate	50	0	39.9	ug/L	80		5		39	155	20
3,3-Dichlorobenzidine	50	0	21.5	ug/L	43		0		10	114	20
Benzo(a)anthracene	50	0	38.8	ug/L	78		4		41	147	20
Chrysene	50	0	38.7	ug/L	77		6		44	144	20
bis(2-Ethylhexyl)phthalate	50	0	40.4	ug/L	81		4		33	160	20
Di-n-octyl phthalate	50	0	41.7	ug/L	83		6		36	158	20
Benzo(b)fluoranthene	50	0	38.4	ug/L	77		6		40	150	20
Benzo(k)fluoranthene	50	0	38.5	ug/L	77		5		40	147	20
Benzo(a)pyrene	50	0	40.3	ug/L	81		5		42	147	20
Indeno(1,2,3-cd)pyrene	50	0	41.5	ug/L	83		5		30	166	20
Dibenz(a,h)anthracene	50	0	40.6	ug/L	81		5		23	172	20
Benzo(g,h,i)perylene	50	0	40.9	ug/L	82		5		27	167	20
1,2,4,5-Tetrachlorobenzene	50	0	35.9	ug/L	72	*	3		89	102	20
2,3,4,6-Tetrachlorophenol	50	0	40.0	ug/L	80	*	6		91	111	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: K5154

Client: TRC Companies, Inc.

Analytical Method: 8270D

DataFile: BG042987.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB123559BS	Benzaldehyde	50	29.3	ug/L	59				10	109	
	Phenol	50	47.4	ug/L	95				10	130	
	bis(2-Chloroethyl)ether	50	41.6	ug/L	83				46	116	
	2-Chlorophenol	50	47.5	ug/L	95				40	105	
	2-Methylphenol	50	45.3	ug/L	91				32	94	
	2,2-oxybis(1-Chloropropane)	50	37.4	ug/L	75				60	113	
	Acetophenone	50	40.2	ug/L	80				64	120	
	3+4-Methylphenols	50	46.0	ug/L	92		*		24	91	
	N-Nitroso-di-n-propylamine	50	40.1	ug/L	80				61	115	
	Hexachloroethane	50	41.0	ug/L	82				52	104	
	Nitrobenzene	50	41.9	ug/L	84				49	120	
	Isophorone	50	40.4	ug/L	81				65	114	
	2-Nitrophenol	50	47.1	ug/L	94				57	116	
	2,4-Dimethylphenol	50	50.7	ug/L	101				43	108	
	bis(2-Chloroethoxy)methane	50	39.8	ug/L	80				65	111	
	2,4-Dichlorophenol	50	47.2	ug/L	94				49	113	
	Naphthalene	50	43.2	ug/L	86				61	107	
	4-Chloroaniline	50	26.8	ug/L	54				10	93	
	Hexachlorobutadiene	50	39.7	ug/L	79				35	120	
	Caprolactam	50	40.7	ug/L	81				10	130	
	4-Chloro-3-methylphenol	50	45.7	ug/L	91				51	109	
	2-Methylnaphthalene	50	42.8	ug/L	86				63	110	
	Hexachlorocyclopentadiene	100	71.0	ug/L	71				42	121	
	2,4,6-Trichlorophenol	50	43.9	ug/L	88				62	114	
	2,4,5-Trichlorophenol	50	45.6	ug/L	91				58	116	
	1,1-Biphenyl	50	39.2	ug/L	78				65	117	
	2-Chloronaphthalene	50	41.4	ug/L	83				65	111	
	2-Nitroaniline	50	42.2	ug/L	84				63	119	
	Dimethylphthalate	50	40.9	ug/L	82				68	112	
	Acenaphthylene	50	43.5	ug/L	87				65	110	
	2,6-Dinitrotoluene	50	44.1	ug/L	88				68	115	
	3-Nitroaniline	50	31.4	ug/L	63				16	104	
	Acenaphthene	50	39.8	ug/L	80				66	114	
	2,4-Dinitrophenol	100	83.6	ug/L	84				35	129	
	4-Nitrophenol	100	92.7	ug/L	93				10	130	
	Dibenzofuran	50	42.8	ug/L	86				66	111	
	2,4-Dinitrotoluene	50	43.0	ug/L	86				65	119	
	Diethylphthalate	50	40.1	ug/L	80				66	116	
	4-Chlorophenyl-phenylether	50	41.8	ug/L	84				66	113	
	Fluorene	50	42.8	ug/L	86				66	112	
	4-Nitroaniline	50	40.8	ug/L	82				53	115	
	4,6-Dinitro-2-methylphenol	50	45.3	ug/L	91				47	137	
	N-Nitrosodiphenylamine	50	43.0	ug/L	86				65	116	
	4-Bromophenyl-phenylether	50	41.8	ug/L	84				66	119	
	Hexachlorobenzene	50	41.2	ug/L	82				57	121	
	Atrazine	50	40.7	ug/L	81				53	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: K5154

Client: TRC Companies, Inc.

Analytical Method: 8270D DataFile: BG042987.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB123559BS	Pentachlorophenol	100	90.1	ug/L	90				51	128	
	Phenanthrene	50	42.3	ug/L	85				68	112	
	Anthracene	50	43.4	ug/L	87				69	112	
	Carbazole	50	43.4	ug/L	87				65	115	
	Di-n-butylphthalate	50	41.4	ug/L	83				67	117	
	Fluoranthene	50	43.2	ug/L	86				67	115	
	Pyrene	50	42.7	ug/L	85				67	116	
	Butylbenzylphthalate	50	42.5	ug/L	85				66	121	
	3,3-Dichlorobenzidine	50	36.5	ug/L	73				13	119	
	Benzo(a)anthracene	50	42.4	ug/L	85				64	117	
	Chrysene	50	42.2	ug/L	84				65	116	
	bis(2-Ethylhexyl)phthalate	50	42.8	ug/L	86				61	123	
	Di-n-octyl phthalate	50	44.6	ug/L	89				63	123	
	Benzo(b)fluoranthene	50	47.1	ug/L	94				62	122	
	Benzo(k)fluoranthene	50	47.6	ug/L	95				60	123	
	Benzo(a)pyrene	50	49.2	ug/L	98				65	118	
	Indeno(1,2,3-cd)pyrene	50	44.3	ug/L	89				50	133	
	Dibenz(a,h)anthracene	50	49.7	ug/L	99				45	150	
	Benzo(g,h,i)perylene	50	49.8	ug/L	100				64	123	
	1,2,4,5-Tetrachlorobenzene	50	39.5	ug/L	79				60	105	
	2,3,4,6-Tetrachlorophenol	50	44.8	ug/L	90				66	110	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: K5154

Client: TRC Companies, Inc.

Analytical Method: 8270D

DataFile: BG042988.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB123559BSD	Benzaldehyde	50	30.8	ug/L	62	5			10	109	20
	Phenol	50	48.0	ug/L	96	1			10	130	20
	bis(2-Chloroethyl)ether	50	43.2	ug/L	86	4			46	116	20
	2-Chlorophenol	50	48.6	ug/L	97	2			40	105	20
	2-Methylphenol	50	46.5	ug/L	93	3			32	94	20
	2,2-oxybis(1-Chloropropane)	50	37.0	ug/L	74	1			60	113	20
	Acetophenone	50	40.1	ug/L	80	0			64	120	20
	3+4-Methylphenols	50	47.5	ug/L	95	3	*		24	91	20
	N-Nitroso-di-n-propylamine	50	41.4	ug/L	83	3			61	115	20
	Hexachloroethane	50	41.2	ug/L	82	0			52	104	20
	Nitrobenzene	50	43.3	ug/L	87	3			49	120	20
	Isophorone	50	41.6	ug/L	83	3			65	114	20
	2-Nitrophenol	50	48.3	ug/L	97	3			57	116	20
	2,4-Dimethylphenol	50	51.7	ug/L	103	2			43	108	20
	bis(2-Chloroethoxy)methane	50	40.8	ug/L	82	2			65	111	20
	2,4-Dichlorophenol	50	47.5	ug/L	95	1			49	113	20
	Naphthalene	50	43.3	ug/L	87	0			61	107	20
	4-Chloroaniline	50	27.7	ug/L	55	3			10	93	20
	Hexachlorobutadiene	50	39.0	ug/L	78	2			35	120	20
	Caprolactam	50	44.0	ug/L	88	8			10	130	20
	4-Chloro-3-methylphenol	50	46.2	ug/L	92	1			51	109	20
	2-Methylnaphthalene	50	43.1	ug/L	86	1			63	110	20
	Hexachlorocyclopentadiene	100	71.5	ug/L	72	1			42	121	20
	2,4,6-Trichlorophenol	50	44.3	ug/L	89	1			62	114	20
	2,4,5-Trichlorophenol	50	45.5	ug/L	91	0			58	116	20
	1,1-Biphenyl	50	39.5	ug/L	79	1			65	117	20
	2-Chloronaphthalene	50	42.1	ug/L	84	2			65	111	20
	2-Nitroaniline	50	42.4	ug/L	85	0			63	119	20
	Dimethylphthalate	50	40.7	ug/L	81	0			68	112	20
	Acenaphthylene	50	44.1	ug/L	88	1			65	110	20
	2,6-Dinitrotoluene	50	44.7	ug/L	89	1			68	115	20
	3-Nitroaniline	50	32.5	ug/L	65	3			16	104	20
	Acenaphthene	50	40.5	ug/L	81	2			66	114	20
	2,4-Dinitrophenol	100	86.2	ug/L	86	3			35	129	20
	4-Nitrophenol	100	92.0	ug/L	92	1			10	130	20
	Dibenzofuran	50	43.0	ug/L	86	0			66	111	20
	2,4-Dinitrotoluene	50	43.4	ug/L	87	1			65	119	20
	Diethylphthalate	50	40.7	ug/L	81	1			66	116	20
	4-Chlorophenyl-phenylether	50	40.8	ug/L	82	2			66	113	20
	Fluorene	50	42.4	ug/L	85	1			66	112	20
	4-Nitroaniline	50	42.1	ug/L	84	3			53	115	20
	4,6-Dinitro-2-methylphenol	50	46.7	ug/L	93	3			47	137	20
	N-Nitrosodiphenylamine	50	44.6	ug/L	89	4			65	116	20
	4-Bromophenyl-phenylether	50	43.3	ug/L	87	4			66	119	20
	Hexachlorobenzene	50	41.8	ug/L	84	1			57	121	20
	Atrazine	50	40.3	ug/L	81	1			53	130	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: K5154

Client: TRC Companies, Inc.

Analytical Method: 8270D DataFile: BG042988.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB123559BSD	Pentachlorophenol	100	93.2	ug/L	93	3			51	128		20
	Phenanthrene	50	43.5	ug/L	87	3			68	112		20
	Anthracene	50	44.6	ug/L	89	3			69	112		20
	Carbazole	50	44.0	ug/L	88	1			65	115		20
	Di-n-butylphthalate	50	42.1	ug/L	84	2			67	117		20
	Fluoranthene	50	43.1	ug/L	86	0			67	115		20
	Pyrene	50	42.4	ug/L	85	1			67	116		20
	Butylbenzylphthalate	50	42.6	ug/L	85	0			66	121		20
	3,3-Dichlorobenzidine	50	36.7	ug/L	73	1			13	119		20
	Benzo(a)anthracene	50	42.0	ug/L	84	1			64	117		20
	Chrysene	50	42.4	ug/L	85	0			65	116		20
	bis(2-Ethylhexyl)phthalate	50	43.3	ug/L	87	1			61	123		20
	Di-n-octyl phthalate	50	44.5	ug/L	89	0			63	123		20
	Benzo(b)fluoranthene	50	48.3	ug/L	97	3			62	122		20
	Benzo(k)fluoranthene	50	47.6	ug/L	95	0			60	123		20
	Benzo(a)pyrene	50	50.0	ug/L	100	2			65	118		20
	Indeno(1,2,3-cd)pyrene	50	44.1	ug/L	88	0			50	133		20
	Dibenz(a,h)anthracene	50	49.8	ug/L	100	0			45	150		20
	Benzo(g,h,i)perylene	50	49.5	ug/L	99	1			64	123		20
	1,2,4,5-Tetrachlorobenzene	50	39.3	ug/L	79	1			60	105		20
	2,3,4,6-Tetrachlorophenol	50	44.6	ug/L	89	0			66	110		20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: K5154

Client: TRC Companies, Inc.

Analytical Method: 8270D

DataFile: BG043033.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		
								Qual	Low	High	RPD
PB123604BS	Benzaldehyde	50	27.3	ug/L	55				10	109	
	Phenol	50	47.1	ug/L	94				10	130	
	bis(2-Chloroethyl)ether	50	41.3	ug/L	83				46	116	
	2-Chlorophenol	50	47.9	ug/L	96				40	105	
	2-Methylphenol	50	47.0	ug/L	94				32	94	
	2,2-oxybis(1-Chloropropane)	50	34.5	ug/L	69				60	113	
	Acetophenone	50	40.1	ug/L	80				64	120	
	3+4-Methylphenols	50	46.2	ug/L	92		*		24	91	
	N-Nitroso-di-n-propylamine	50	41.4	ug/L	83				61	115	
	Hexachloroethane	50	39.9	ug/L	80				52	104	
	Nitrobenzene	50	41.5	ug/L	83				49	120	
	Isophorone	50	41.6	ug/L	83				65	114	
	2-Nitrophenol	50	47.8	ug/L	96				57	116	
	2,4-Dimethylphenol	50	53.9	ug/L	108				43	108	
	bis(2-Chloroethoxy)methane	50	41.6	ug/L	83				65	111	
	2,4-Dichlorophenol	50	47.3	ug/L	95				49	113	
	Naphthalene	50	42.9	ug/L	86				61	107	
	4-Chloroaniline	50	32.0	ug/L	64				10	93	
	Hexachlorobutadiene	50	38.8	ug/L	78				35	120	
	Caprolactam	50	43.3	ug/L	87				10	130	
	4-Chloro-3-methylphenol	50	46.3	ug/L	93				51	109	
	2-Methylnaphthalene	50	43.4	ug/L	87				63	110	
	Hexachlorocyclopentadiene	100	77.0	ug/L	77				42	121	
	2,4,6-Trichlorophenol	50	44.7	ug/L	89				62	114	
	2,4,5-Trichlorophenol	50	46.1	ug/L	92				58	116	
	1,1-Biphenyl	50	39.2	ug/L	78				65	117	
	2-Chloronaphthalene	50	41.3	ug/L	83				65	111	
	2-Nitroaniline	50	41.1	ug/L	82				63	119	
	Dimethylphthalate	50	41.3	ug/L	83				68	112	
	Acenaphthylene	50	43.0	ug/L	86				65	110	
	2,6-Dinitrotoluene	50	44.8	ug/L	90				68	115	
	3-Nitroaniline	50	34.7	ug/L	69				16	104	
	Acenaphthene	50	39.7	ug/L	79				66	114	
	2,4-Dinitrophenol	100	90.0	ug/L	90				35	129	
	4-Nitrophenol	100	92.4	ug/L	92				10	130	
	Dibenzofuran	50	41.9	ug/L	84				66	111	
	2,4-Dinitrotoluene	50	43.2	ug/L	86				65	119	
	Diethylphthalate	50	40.9	ug/L	82				66	116	
	4-Chlorophenyl-phenylether	50	40.2	ug/L	80				66	113	
	Fluorene	50	41.7	ug/L	83				66	112	
	4-Nitroaniline	50	41.0	ug/L	82				53	115	
	4,6-Dinitro-2-methylphenol	50	47.5	ug/L	95				47	137	
	N-Nitrosodiphenylamine	50	43.7	ug/L	87				65	116	
	4-Bromophenyl-phenylether	50	42.0	ug/L	84				66	119	
	Hexachlorobenzene	50	41.1	ug/L	82				57	121	
	Atrazine	50	40.1	ug/L	80				53	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary SW-846

SDG No.: K5154

Client: TRC Companies, Inc.

Analytical Method: 8270D

DataFile: BG043033.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		
								Qual	Low	High	RPD
PB123604BS	Pentachlorophenol	100	94.8	ug/L	95				51	128	
	Phenanthrene	50	42.0	ug/L	84				68	112	
	Anthracene	50	42.9	ug/L	86				69	112	
	Carbazole	50	42.9	ug/L	86				65	115	
	Di-n-butylphthalate	50	41.3	ug/L	83				67	117	
	Fluoranthene	50	42.3	ug/L	85				67	115	
	Pyrene	50	41.3	ug/L	83				67	116	
	Butylbenzylphthalate	50	42.7	ug/L	85				66	121	
	3,3-Dichlorobenzidine	50	40.7	ug/L	81				13	119	
	Benzo(a)anthracene	50	41.0	ug/L	82				64	117	
	Chrysene	50	41.5	ug/L	83				65	116	
	bis(2-Ethylhexyl)phthalate	50	42.7	ug/L	85				61	123	
	Di-n-octyl phthalate	50	44.2	ug/L	88				63	123	
	Benzo(b)fluoranthene	50	48.7	ug/L	97				62	122	
	Benzo(k)fluoranthene	50	48.2	ug/L	96				60	123	
	Benzo(a)pyrene	50	50.4	ug/L	101				65	118	
	Indeno(1,2,3-cd)pyrene	50	43.6	ug/L	87				50	133	
	Dibenz(a,h)anthracene	50	51.2	ug/L	102				45	150	
	Benzo(g,h,i)perylene	50	51.6	ug/L	103				64	123	
	1,2,4,5-Tetrachlorobenzene	50	38.8	ug/L	78				60	105	
	2,3,4,6-Tetrachlorophenol	50	43.2	ug/L	86				66	110	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: K5154

Client: TRC Companies, Inc.

Analytical Method: 8270D

DataFile: BG043084.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB123704BS	Benzaldehyde	50	36.0	ug/L	72				10	109		
	Phenol	50	47.1	ug/L	94				10	130		
	bis(2-Chloroethyl)ether	50	43.7	ug/L	87				46	116		
	2-Chlorophenol	50	48.2	ug/L	96				40	105		
	2-Methylphenol	50	44.8	ug/L	90				32	94		
	2,2-oxybis(1-Chloropropane)	50	31.4	ug/L	63				60	113		
	Acetophenone	50	39.3	ug/L	79				64	120		
	3+4-Methylphenols	50	45.0	ug/L	90				24	91		
	N-Nitroso-di-n-propylamine	50	38.8	ug/L	78				61	115		
	Hexachloroethane	50	38.9	ug/L	78				52	104		
	Nitrobenzene	50	40.3	ug/L	81				49	120		
	Isophorone	50	40.1	ug/L	80				65	114		
	2-Nitrophenol	50	46.5	ug/L	93				57	116		
	2,4-Dimethylphenol	50	50.6	ug/L	101				43	108		
	bis(2-Chloroethoxy)methane	50	40.6	ug/L	81				65	111		
	2,4-Dichlorophenol	50	46.3	ug/L	93				49	113		
	Naphthalene	50	42.8	ug/L	86				61	107		
	4-Chloroaniline	50	11.7	ug/L	23				10	93		
	Hexachlorobutadiene	50	37.9	ug/L	76				35	120		
	Caprolactam	50	42.8	ug/L	86				10	130		
	4-Chloro-3-methylphenol	50	45.4	ug/L	91				51	109		
	2-Methylnaphthalene	50	42.9	ug/L	86				63	110		
	Hexachlorocyclopentadiene	100	86.3	ug/L	86				42	121		
	2,4,6-Trichlorophenol	50	42.6	ug/L	85				62	114		
	2,4,5-Trichlorophenol	50	44.2	ug/L	88				58	116		
	1,1-Biphenyl	50	38.5	ug/L	77				65	117		
	2-Chloronaphthalene	50	39.5	ug/L	79				65	111		
	2-Nitroaniline	50	38.7	ug/L	77				63	119		
	Dimethylphthalate	50	40.8	ug/L	82				68	112		
	Acenaphthylene	50	42.5	ug/L	85				65	110		
	2,6-Dinitrotoluene	50	44.3	ug/L	89				68	115		
	3-Nitroaniline	50	27.0	ug/L	54				16	104		
	Acenaphthene	50	38.2	ug/L	76				66	114		
	2,4-Dinitrophenol	100	88.1	ug/L	88				35	129		
	4-Nitrophenol	100	90.6	ug/L	91				10	130		
	Dibenzofuran	50	41.9	ug/L	84				66	111		
	2,4-Dinitrotoluene	50	43.6	ug/L	87				65	119		
	Diethylphthalate	50	40.3	ug/L	81				66	116		
	4-Chlorophenyl-phenylether	50	40.6	ug/L	81				66	113		
	Fluorene	50	41.7	ug/L	83				66	112		
	4-Nitroaniline	50	38.4	ug/L	77				53	115		
	4,6-Dinitro-2-methylphenol	50	48.2	ug/L	96				47	137		
	N-Nitrosodiphenylamine	50	43.1	ug/L	86				65	116		
	4-Bromophenyl-phenylether	50	41.0	ug/L	82				66	119		
	Hexachlorobenzene	50	41.9	ug/L	84				57	121		
	Atrazine	50	43.2	ug/L	86				53	130		

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: K5154

Client: TRC Companies, Inc.

Analytical Method: 8270D

DataFile: BG043084.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB123704BS	Pentachlorophenol	100	89.5	ug/L	90				51	128	
	Phenanthrene	50	42.4	ug/L	85				68	112	
	Anthracene	50	44.0	ug/L	88				69	112	
	Carbazole	50	43.3	ug/L	87				65	115	
	Di-n-butylphthalate	50	42.1	ug/L	84				67	117	
	Fluoranthene	50	42.7	ug/L	85				67	115	
	Pyrene	50	42.2	ug/L	84				67	116	
	Butylbenzylphthalate	50	40.8	ug/L	82				66	121	
	3,3-Dichlorobenzidine	50	26.8	ug/L	54				13	119	
	Benzo(a)anthracene	50	41.8	ug/L	84				64	117	
	Chrysene	50	41.3	ug/L	83				65	116	
	bis(2-Ethylhexyl)phthalate	50	41.3	ug/L	83				61	123	
	Di-n-octyl phthalate	50	42.8	ug/L	86				63	123	
	Benzo(b)fluoranthene	50	41.7	ug/L	83				62	122	
	Benzo(k)fluoranthene	50	42.5	ug/L	85				60	123	
	Benzo(a)pyrene	50	41.5	ug/L	83				65	118	
	Indeno(1,2,3-cd)pyrene	50	42.4	ug/L	85				50	133	
	Dibenz(a,h)anthracene	50	43.7	ug/L	87				45	150	
	Benzo(g,h,i)perylene	50	44.4	ug/L	89				64	123	
	1,2,4,5-Tetrachlorobenzene	50	36.7	ug/L	73				60	105	
	2,3,4,6-Tetrachlorophenol	50	42.0	ug/L	84				66	110	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: K5154

Client: TRC Companies, Inc.

Analytical Method: 8270D

DataFile: BG043085.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB123704BSD	Benzaldehyde	50	34.1	ug/L	68	5			10	109	20
	Phenol	50	46.4	ug/L	93	1			10	130	20
	bis(2-Chloroethyl)ether	50	41.0	ug/L	82	6			46	116	20
	2-Chlorophenol	50	47.4	ug/L	95	2			40	105	20
	2-Methylphenol	50	44.2	ug/L	88	1			32	94	20
	2,2-oxybis(1-Chloropropane)	50	30.9	ug/L	62	2			60	113	20
	Acetophenone	50	39.9	ug/L	80	2			64	120	20
	3+4-Methylphenols	50	43.4	ug/L	87	4			24	91	20
	N-Nitroso-di-n-propylamine	50	38.7	ug/L	77	0			61	115	20
	Hexachloroethane	50	39.3	ug/L	79	1			52	104	20
	Nitrobenzene	50	41.3	ug/L	83	2			49	120	20
	Isophorone	50	40.8	ug/L	82	2			65	114	20
	2-Nitrophenol	50	48.1	ug/L	96	3			57	116	20
	2,4-Dimethylphenol	50	50.7	ug/L	101	0			43	108	20
	bis(2-Chloroethoxy)methane	50	40.6	ug/L	81	0			65	111	20
	2,4-Dichlorophenol	50	47.1	ug/L	94	2			49	113	20
	Naphthalene	50	43.0	ug/L	86	0			61	107	20
	4-Chloroaniline	50	11.8	ug/L	24	1			10	93	20
	Hexachlorobutadiene	50	37.8	ug/L	76	0			35	120	20
	Caprolactam	50	42.6	ug/L	85	0			10	130	20
	4-Chloro-3-methylphenol	50	46.5	ug/L	93	2			51	109	20
	2-Methylnaphthalene	50	43.3	ug/L	87	1			63	110	20
	Hexachlorocyclopentadiene	100	88.7	ug/L	89	3			42	121	20
	2,4,6-Trichlorophenol	50	42.2	ug/L	84	1			62	114	20
	2,4,5-Trichlorophenol	50	45.2	ug/L	90	2			58	116	20
	1,1-Biphenyl	50	38.5	ug/L	77	0			65	117	20
	2-Chloronaphthalene	50	40.6	ug/L	81	3			65	111	20
	2-Nitroaniline	50	39.3	ug/L	79	2			63	119	20
	Dimethylphthalate	50	40.6	ug/L	81	0			68	112	20
	Acenaphthylene	50	42.5	ug/L	85	0			65	110	20
	2,6-Dinitrotoluene	50	44.0	ug/L	88	1			68	115	20
	3-Nitroaniline	50	26.7	ug/L	53	1			16	104	20
	Acenaphthene	50	38.3	ug/L	77	0			66	114	20
	2,4-Dinitrophenol	100	87.5	ug/L	88	1			35	129	20
	4-Nitrophenol	100	86.0	ug/L	86	5			10	130	20
	Dibenzofuran	50	41.7	ug/L	83	0			66	111	20
	2,4-Dinitrotoluene	50	42.8	ug/L	86	2			65	119	20
	Diethylphthalate	50	39.5	ug/L	79	2			66	116	20
	4-Chlorophenyl-phenylether	50	39.5	ug/L	79	3			66	113	20
	Fluorene	50	40.9	ug/L	82	2			66	112	20
	4-Nitroaniline	50	37.8	ug/L	76	2			53	115	20
	4,6-Dinitro-2-methylphenol	50	48.0	ug/L	96	0			47	137	20
	N-Nitrosodiphenylamine	50	43.4	ug/L	87	1			65	116	20
	4-Bromophenyl-phenylether	50	41.7	ug/L	83	2			66	119	20
	Hexachlorobenzene	50	42.5	ug/L	85	1			57	121	20
	Atrazine	50	42.9	ug/L	86	1			53	130	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: K5154

Client: TRC Companies, Inc.

Analytical Method: 8270D

DataFile: BG043085.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB123704BSD	Pentachlorophenol	100	89.3	ug/L	89	0			51	128	20
	Phenanthrene	50	41.9	ug/L	84	1			68	112	20
	Anthracene	50	44.3	ug/L	89	1			69	112	20
	Carbazole	50	42.5	ug/L	85	2			65	115	20
	Di-n-butylphthalate	50	41.4	ug/L	83	2			67	117	20
	Fluoranthene	50	42.2	ug/L	84	1			67	115	20
	Pyrene	50	42.0	ug/L	84	0			67	116	20
	Butylbenzylphthalate	50	41.1	ug/L	82	1			66	121	20
	3,3-Dichlorobenzidine	50	27.5	ug/L	55	3			13	119	20
	Benzo(a)anthracene	50	41.9	ug/L	84	0			64	117	20
	Chrysene	50	41.1	ug/L	82	0			65	116	20
	bis(2-Ethylhexyl)phthalate	50	42.0	ug/L	84	2			61	123	20
	Di-n-octyl phthalate	50	43.0	ug/L	86	0			63	123	20
	Benzo(b)fluoranthene	50	41.4	ug/L	83	1			62	122	20
	Benzo(k)fluoranthene	50	42.5	ug/L	85	0			60	123	20
	Benzo(a)pyrene	50	41.2	ug/L	82	1			65	118	20
	Indeno(1,2,3-cd)pyrene	50	42.6	ug/L	85	0			50	133	20
	Dibenz(a,h)anthracene	50	43.7	ug/L	87	0			45	150	20
	Benzo(g,h,i)perylene	50	44.6	ug/L	89	0			64	123	20
	1,2,4,5-Tetrachlorobenzene	50	37.3	ug/L	75	2			60	105	20
	2,3,4,6-Tetrachlorophenol	50	41.9	ug/L	84	0			66	110	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB123559BL

Lab Name: CHEMTECH

Contract: TRCE03

Lab Code: CHEM Case No.: K5154

SAS No.: K5154 SDG NO.: K5154

Lab File ID: BG042986.D

Lab Sample ID: PB123559BL

Instrument ID: BNA_G

Date Extracted: 10/02/2019

Matrix: (soil/water) Water

Date Analyzed: 10/02/2019

Level: (low/med) LOW

Time Analyzed: 15:53

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MW-106I	K5154-04	BG042991.D	10/02/2019
MW-106D	K5154-05	BG042992.D	10/02/2019
MW-107	K5154-06	BG042993.D	10/02/2019
PB123559BS	PB123559BS	BG042987.D	10/02/2019
PB123559BSD	PB123559BSD	BG042988.D	10/02/2019
FB-10012019	K5154-02	BG042989.D	10/02/2019
MW-106S	K5154-03	BG042990.D	10/02/2019

COMMENTS:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB123604BL

Lab Name: CHEMTECH

Contract: TRCE03

Lab Code: CHEM Case No.: K5154

SAS No.: K5154 SDG NO.: K5154

Lab File ID: BG043068.D

Lab Sample ID: PB123604BL

Instrument ID: BNA_G

Date Extracted: 10/03/2019

Matrix: (soil/water) Water

Date Analyzed: 10/07/2019

Level: (low/med) LOW

Time Analyzed: 15:20

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MW-103S	K5154-10	BG043037.D	10/04/2019
MW-103I	K5154-11	BG043038.D	10/04/2019
MW-103IMS	K5154-12MS	BG043039.D	10/04/2019
MW-103IMSD	K5154-13MSD	BG043040.D	10/04/2019
MW-103D	K5154-14	BG043041.D	10/04/2019
MW-105S	K5154-15	BG043042.D	10/05/2019
PB123604BS	PB123604BS	BG043033.D	10/04/2019
MW-105I	K5154-16	BG043043.D	10/05/2019
MW-105D	K5154-17	BG043044.D	10/05/2019
MW-104I	K5154-18	BP000527.D	10/04/2019
MW-104D	K5154-19	BP000528.D	10/04/2019

COMMENTS:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB123704BL

Lab Name: CHEMTECH

Contract: TRCE03

Lab Code: CHEM Case No.: K5154

SAS No.: K5154 SDG NO.: K5154

Lab File ID: BG043086.D

Lab Sample ID: PB123704BL

Instrument ID: BNA_G

Date Extracted: 10/07/2019

Matrix: (soil/water) Water

Date Analyzed: 10/08/2019

Level: (low/med) LOW

Time Analyzed: 15:27

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MW-101I	K5154-25	BP000558.D	10/07/2019
MW-102S	K5154-21	BG043073.D	10/07/2019
MW-102I	K5154-22	BG043074.D	10/07/2019
MW-102D	K5154-23	BG043075.D	10/07/2019
MW-101S	K5154-24	BG043076.D	10/07/2019
MW-101D	K5154-26	BG043077.D	10/07/2019
PB123704BS	PB123704BS	BG043084.D	10/08/2019
PB123704BSD	PB123704BSD	BG043085.D	10/08/2019

COMMENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TRCE03

Lab Code: CHEM

SAS No.: K5154 SDG NO.: K5154

Lab File ID: BG042921.D

DFTPP Injection Date: 09/25/2019

Instrument ID: BNA_G

DFTPP Injection Time: 10:14

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37.8
68	Less than 2.0% of mass 69	0.3 (0.7) 1
69	Mass 69 relative abundance	35.3
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	10.0 - 80.0% of mass 198	44.5
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	35.4
365	Greater than 1% of mass 198	5
441	Present, but less than mass 443	14.1
442	Greater than 50% of mass 198	88.3
443	15.0 - 24.0% of mass 442	17.6 (20) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDIC010	SSTDIC010	BG042922.D	09/25/2019	10:52
SSTDIC020	SSTDIC020	BG042923.D	09/25/2019	11:30
SSTDIC040	SSTDIC040	BG042924.D	09/25/2019	12:08
SSTDIC050	SSTDIC050	BG042925.D	09/25/2019	12:46
SSTDIC060	SSTDIC060	BG042926.D	09/25/2019	13:24
SSTDIC080	SSTDIC080	BG042927.D	09/25/2019	14:02
SSTDIC100	SSTDIC100	BG042928.D	09/25/2019	14:41

5B

**SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)**

Lab Name: CHEMTECH

Contract: TRCE03

Lab Code: CHEM

SAS No.: K5154 SDG NO.: K5154

Lab File ID: BG042982.D

DFTPP Injection Date: 10/02/2019

Instrument ID: BNA_G

DFTPP Injection Time: 12:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.6
68	Less than 2.0% of mass 69	0.1 (0.4) 1
69	Mass 69 relative abundance	33.5
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	42.5
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.3
275	10.0 - 60.0% of mass 198	32.6
365	Greater than 1% of mass 198	4.7
441	Present, but less than mass 443	13.5
442	Greater than 50% of mass 198	89.3
443	15.0 - 24.0% of mass 442	16.8 (18.8) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BG042983.D	10/02/2019	13:54
PB123559BL	PB123559BL	BG042986.D	10/02/2019	15:53
PB123559BS	PB123559BS	BG042987.D	10/02/2019	16:32
PB123559BSD	PB123559BSD	BG042988.D	10/02/2019	17:10
FB-10012019	K5154-02	BG042989.D	10/02/2019	17:49
MW-106S	K5154-03	BG042990.D	10/02/2019	18:27
MW-106I	K5154-04	BG042991.D	10/02/2019	19:06
MW-106D	K5154-05	BG042992.D	10/02/2019	19:44
MW-107	K5154-06	BG042993.D	10/02/2019	20:23

5B

**SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)**

Lab Name: CHEMTECH

Contract: TRCE03

Lab Code: CHEM

SAS No.: K5154 SDG NO.: K5154

Lab File ID: BG043029.D

DFTPP Injection Date: 10/04/2019

Instrument ID: BNA_G

DFTPP Injection Time: 15:44

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	35.3
68	Less than 2.0% of mass 69	0.3 (0.8) 1
69	Mass 69 relative abundance	34.4
70	Less than 2.0% of mass 69	0.3 (1) 1
127	10.0 - 80.0% of mass 198	41.9
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.6
275	10.0 - 60.0% of mass 198	31.3
365	Greater than 1% of mass 198	4.5
441	Present, but less than mass 443	13.5
442	Greater than 50% of mass 198	83.2
443	15.0 - 24.0% of mass 442	16.4 (19.7) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BG043030.D	10/04/2019	16:22
PB123604BS	PB123604BS	BG043033.D	10/04/2019	18:17
MW-103S	K5154-10	BG043037.D	10/04/2019	20:50
MW-103I	K5154-11	BG043038.D	10/04/2019	21:28
MW-103IMS	K5154-12MS	BG043039.D	10/04/2019	22:06
MW-103IMSD	K5154-13MSD	BG043040.D	10/04/2019	22:44
MW-103D	K5154-14	BG043041.D	10/04/2019	23:23
MW-105S	K5154-15	BG043042.D	10/05/2019	00:01
MW-105I	K5154-16	BG043043.D	10/05/2019	00:39
MW-105D	K5154-17	BG043044.D	10/05/2019	01:17

5B

**SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)**

Lab Name: CHEMTECH

Contract: TRCE03

Lab Code: CHEM

SAS No.: K5154 SDG NO.: K5154

Lab File ID: BG043064.D

DFTPP Injection Date: 10/07/2019

Instrument ID: BNA_G

DFTPP Injection Time: 12:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	28.9
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	30.1
70	Less than 2.0% of mass 69	0.1 (0.3) 1
127	10.0 - 80.0% of mass 198	39.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	34.9
365	Greater than 1% of mass 198	5.3
441	Present, but less than mass 443	15.7
442	Greater than 50% of mass 198	98.4
443	15.0 - 24.0% of mass 442	19.2 (19.5) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BG043065.D	10/07/2019	13:24
PB123604BL	PB123604BL	BG043068.D	10/07/2019	15:20
MW-102S	K5154-21	BG043073.D	10/07/2019	18:32
MW-102I	K5154-22	BG043074.D	10/07/2019	19:10
MW-102D	K5154-23	BG043075.D	10/07/2019	19:48
MW-101S	K5154-24	BG043076.D	10/07/2019	20:27
MW-101D	K5154-26	BG043077.D	10/07/2019	21:05

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TRCE03

Lab Code: CHEM

SAS No.: K5154 SDG NO.: K5154

Lab File ID: BG043082.D

DFTPP Injection Date: 10/08/2019

Instrument ID: BNA_G

DFTPP Injection Time: 10:44

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	30.5
68	Less than 2.0% of mass 69	0.3 (0.9) 1
69	Mass 69 relative abundance	32.3
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	41.3
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.3
275	10.0 - 60.0% of mass 198	34.1
365	Greater than 1% of mass 198	4.8
441	Present, but less than mass 443	15
442	Greater than 50% of mass 198	97.1
443	15.0 - 24.0% of mass 442	18.9 (19.5) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BG043083.D	10/08/2019	11:22
PB123704BS	PB123704BS	BG043084.D	10/08/2019	14:11
PB123704BSD	PB123704BSD	BG043085.D	10/08/2019	14:49
PB123704BL	PB123704BL	BG043086.D	10/08/2019	15:27

5B

**SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)**

Lab Name: CHEMTECH

Contract: TRCE03

Lab Code: CHEM

SAS No.: K5154 SDG NO.: K5154

Lab File ID: BP000477.D

DFTPP Injection Date: 10/01/2019

Instrument ID: BNA_P

DFTPP Injection Time: 11:09

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	22.3
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	27.9
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	43.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	27.9
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	13.1
442	Greater than 50% of mass 198	82.7
443	15.0 - 24.0% of mass 442	16.5 (19.9) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC010	SSTDICC010	BP000478.D	10/01/2019	13:38
SSTDICC020	SSTDICC020	BP000479.D	10/01/2019	14:02
SSTDICCC040	SSTDICCC040	BP000480.D	10/01/2019	14:26
SSTDICC050	SSTDICC050	BP000481.D	10/01/2019	14:50
SSTDICC060	SSTDICC060	BP000482.D	10/01/2019	15:15
SSTDICC100	SSTDICC100	BP000484.D	10/01/2019	16:03
SSTDICC080	SSTDICC080	BP000485.D	10/01/2019	17:32

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TRCE03

Lab Code: CHEM

SAS No.: K5154 SDG NO.: K5154

Lab File ID: BP000507.D

DFTPP Injection Date: 10/04/2019

Instrument ID: BNA_P

DFTPP Injection Time: 14:48

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	20.5
68	Less than 2.0% of mass 69	0.5 (1.9) 1
69	Mass 69 relative abundance	25.4
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	41.8
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	28.7
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	14.3
442	Greater than 50% of mass 198	92.3
443	15.0 - 24.0% of mass 442	17.7 (19.2) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP000508.D	10/04/2019	15:36
MW-104I	K5154-18	BP000527.D	10/04/2019	23:13
MW-104D	K5154-19	BP000528.D	10/04/2019	23:37

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TRCE03

Lab Code: CHEM

SAS No.: K5154 SDG NO.: K5154

Lab File ID: BP000535.D

DFTPP Injection Date: 10/07/2019

Instrument ID: BNA_P

DFTPP Injection Time: 10:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	24
68	Less than 2.0% of mass 69	0.5 (1.9) 1
69	Mass 69 relative abundance	28.4
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	44.8
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	26.6
365	Greater than 1% of mass 198	2.9
441	Present, but less than mass 443	11.7
442	Greater than 50% of mass 198	73.2
443	15.0 - 24.0% of mass 442	15.1 (20.6) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP000536.D	10/07/2019	10:59
MW-101I	K5154-25	BP000558.D	10/07/2019	21:21

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG NO.: K5154
 EPA Sample No.: SSTDCCC040 Date Analyzed: 10/02/2019
 Lab File ID: BG042983.D Time Analyzed: 13:54
 Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	69194	8.07	282834	10.87	209587	14.69
UPPER LIMIT	138388	8.57	565668	11.37	419174	15.19
LOWER LIMIT	34597	7.57	141417	10.37	104794	14.19
EPA SAMPLE NO.						
01 MW-106I	72602	8.07	266061	10.87	191515	14.69
02 MW-106D	73454	8.07	264598	10.87	189592	14.69
03 MW-107	68287	8.07	247781	10.87	177051	14.69
04 PB123559BSD	65307	8.07	262064	10.87	190641	14.69
05 FB-10012019	69077	8.07	251639	10.88	179172	14.69
06 PB123559BL	62220	8.07	226106	10.87	159284	14.69
07 PB123559BS	61914	8.07	248480	10.87	180803	14.69
08 MW-106S	74554	8.07	270596	10.87	190402	14.69

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG NO.: K5154

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/02/2019

Lab File ID: BG042983.D Time Analyzed: 13:54

Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	499181	17.44	527580	21.71	617751	24.93
UPPER LIMIT	998362	17.94	1055160	22.21	1235500	25.43
LOWER LIMIT	249591	16.94	263790	21.21	308876	24.43
EPA SAMPLE NO.						
01 MW-106I	434985	17.43	457457	21.70	526997	24.92
02 MW-106D	432538	17.43	458508	21.70	531271	24.93
03 MW-107	420873	17.43	458922	21.70	529338	24.93
04 PB123559BSD	455136	17.44	508110	21.71	524233	24.93
05 FB-10012019	417212	17.43	450007	21.70	507187	24.92
06 PB123559BL	377131	17.43	413556	21.70	463004	24.93
07 PB123559BS	445136	17.43	492436	21.71	515717	24.93
08 MW-106S	431293	17.43	457869	21.70	535028	24.92

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG NO.: K5154
 EPA Sample No.: SSTDCCC040 Date Analyzed: 10/04/2019
 Lab File ID: BG043030.D Time Analyzed: 16:22
 Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	71883	8.06	281994	10.86	199946	14.68
UPPER LIMIT	143766	8.56	563988	11.36	399892	15.18
LOWER LIMIT	35941.5	7.56	140997	10.36	99973	14.18
EPA SAMPLE NO.						
01 MW-103S	76430	8.06	298058	10.86	205570	14.68
02 PB123604BS	70481	8.06	281699	10.87	207648	14.69
03 MW-103I	74034	8.06	285954	10.86	203015	14.68
04 MW-103IMS	74076	8.06	283134	10.87	201756	14.69
05 MW-103IMSD	79561	8.06	298771	10.86	217632	14.68
06 MW-103D	76146	8.06	286618	10.86	205730	14.68
07 MW-105S	76103	8.06	292411	10.87	202391	14.68
08 MW-105I	77238	8.06	285549	10.86	200429	14.68
09 MW-105D	63532	8.07	236684	10.87	171037	14.68

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG NO.: K5154

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/04/2019

Lab File ID: BG043030.D Time Analyzed: 16:22

Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	469455	17.43	507704	21.7	599371	24.91
UPPER LIMIT	938910	17.93	1015410	22.2	1198740	25.41
LOWER LIMIT	234728	16.93	253852	21.2	299686	24.41
EPA SAMPLE NO.						
01 MW-103S	457926	17.42	510447	21.69	601080	24.91
02 PB123604BS	495962	17.42	556175	21.70	562517	24.91
03 MW-103I	480380	17.42	513886	21.69	601085	24.91
04 MW-103IMS	477127	17.42	519647	21.70	616008	24.91
05 MW-103IMSD	496593	17.43	531712	21.70	631792	24.91
06 MW-103D	470328	17.42	519933	21.69	604630	24.91
07 MW-105S	462342	17.42	515272	21.70	609860	24.91
08 MW-105I	477439	17.42	522583	21.69	600303	24.91
09 MW-105D	405199	17.42	447946	21.69	521931	24.91

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG NO.: K5154
 EPA Sample No.: SSTDCCC040 Date Analyzed: 10/07/2019
 Lab File ID: BG043065.D Time Analyzed: 13:24
 Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	46811	8.06	193719	10.86	151696	14.68
UPPER LIMIT	93622	8.56	387438	11.36	303392	15.18
LOWER LIMIT	23405.5	7.56	96859.5	10.36	75848	14.18
EPA SAMPLE NO.						
01 PB123604BL	48346	8.06	177856	10.86	142353	14.68
02 MW-102S	47610	8.06	189366	10.86	153609	14.68
03 MW-102I	46749	8.06	180073	10.86	145906	14.68
04 MW-102D	50545	8.06	195798	10.86	157323	14.67
05 MW-101S	56297	8.06	213482	10.86	166218	14.68
06 MW-101D	52854	8.05	205101	10.86	163275	14.68

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG NO.: K5154

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/07/2019

Lab File ID: BG043065.D Time Analyzed: 13:24

Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	370408	17.42	383970	21.7	455107	24.91
UPPER LIMIT	740816	17.92	767940	22.2	910214	25.41
LOWER LIMIT	185204	16.92	191985	21.2	227554	24.41
EPA SAMPLE NO.						
01 PB123604BL	378147	17.42	437856	21.69	500699	24.91
02 MW-102S	400517	17.42	434587	21.69	505185	24.91
03 MW-102I	381491	17.42	415151	21.69	479479	24.91
04 MW-102D	406146	17.42	438414	21.69	515358	24.90
05 MW-101S	406046	17.42	417644	21.69	488321	24.91
06 MW-101D	404193	17.42	422823	21.68	485278	24.90

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG NO.: K5154
 EPA Sample No.: SSTDCCC040 Date Analyzed: 10/08/2019
 Lab File ID: BG043083.D Time Analyzed: 11:22
 Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	50824	8.06	208128	10.86	159025	14.68
UPPER LIMIT	101648	8.56	416256	11.36	318050	15.18
LOWER LIMIT	25412	7.56	104064	10.36	79512.5	14.18
EPA SAMPLE NO.						
01 PB123704BS	44202	8.06	175478	10.86	131974	14.68
02 PB123704BL	62325	8.05	213673	10.86	150055	14.68
03 PB123704BSD	48593	8.06	187933	10.86	140311	14.68

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG NO.: K5154

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/08/2019

Lab File ID: BG043083.D Time Analyzed: 11:22

Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	389377	17.42	415305	21.69	483664	24.91
UPPER LIMIT	778754	17.92	830610	22.19	967328	25.41
LOWER LIMIT	194689	16.92	207653	21.19	241832	24.41
EPA SAMPLE NO.						
01 PB123704BS	321781	17.42	360625	21.69	407696	24.90
02 PB123704BL	383652	17.42	413746	21.69	453879	24.91
03 PB123704BSD	329257	17.42	362282	21.69	413946	24.90

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG NO.: K5154
 EPA Sample No.: SSTDCCC040 Date Analyzed: 10/04/2019
 Lab File ID: BP000508.D Time Analyzed: 15:36
 Instrument ID: BNA_P GC Column: DB-UI ID: 0.18 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	173097	6.77	664548	8.05	379610	9.82
UPPER LIMIT	346194	7.27	1329100	8.55	759220	10.32
LOWER LIMIT	86548.5	6.27	332274	7.55	189805	9.32
EPA SAMPLE NO.						
01 MW-104I	182014	6.77	728101	8.05	417895	9.81
02 MW-104D	303532	6.77	1104910	8.05	585183	9.81

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG NO.: K5154

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/04/2019

Lab File ID: BP000508.D Time Analyzed: 15:36

Instrument ID: BNA_P GC Column: DB-UI ID: 0.18 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	723204	11.31	608134	13.98	727123	15.46
UPPER LIMIT	1446410	11.81	1216270	14.48	1454250	15.96
LOWER LIMIT	361602	10.81	304067	13.48	363562	14.96
EPA SAMPLE NO.						
01 MW-104I	949234	11.31	841888	13.97	913134	15.46
02 MW-104D	1016610	11.31	800136	13.97	502453	15.46

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG NO.: K5154

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/07/2019

Lab File ID: BP000536.D Time Analyzed: 10:59

Instrument ID: BNA_P GC Column: RTX-5 ID: 0.18 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	220923	6.76	834012	8.05	480972	9.80
UPPER LIMIT	441846	7.26	1668020	8.55	961944	10.3
LOWER LIMIT	110462	6.26	417006	7.55	240486	9.3
EPA SAMPLE NO.						
01 MW-101I	280980	6.76	1006830	8.05	550923	9.81

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG NO.: K5154

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/07/2019

Lab File ID: BP000536.D Time Analyzed: 10:59

Instrument ID: BNA_P GC Column: RTX-5 ID: 0.18 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	902760	11.3	798607	13.97	911660	15.44
UPPER LIMIT	1805520	11.8	1597210	14.47	1823320	15.94
LOWER LIMIT	451380	10.8	399304	13.47	455830	14.94
EPA SAMPLE NO.						
01 MW-101I	992533	11.31	879687	13.98	872328	15.46

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

QC SAMPLE DATA

Report of Analysis

Client:	TRC Companies, Inc.		Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4		Date Received:	
Client Sample ID:	PB123559BL		SDG No.:	K5154
Lab Sample ID:	PB123559BL		Matrix:	Water
Analytical Method:	SW8270		% Moisture:	100
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042986.D	1	10/02/19 08:41	10/02/19 15:53	PB123559

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	2.90	10.0	ug/L
108-95-2	Phenol	10.0	U	2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	10.0	U	3.40	10.0	ug/L
95-57-8	2-Chlorophenol	10.0	U	2.50	10.0	ug/L
95-48-7	2-Methylphenol	10.0	U	2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	10.0	U	3.00	10.0	ug/L
98-86-2	Acetophenone	10.0	U	3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	10.0	U	4.70	10.0	ug/L
67-72-1	Hexachloroethane	10.0	U	2.90	10.0	ug/L
98-95-3	Nitrobenzene	10.0	U	2.60	10.0	ug/L
78-59-1	Isophorone	10.0	U	2.20	10.0	ug/L
88-75-5	2-Nitrophenol	10.0	U	3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	10.0	U	2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	10.0	U	2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	10.0	U	2.30	10.0	ug/L
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
106-47-8	4-Chloroaniline	10.0	U	4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	10.0	U	3.20	10.0	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	10.0	U	2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.0	U	2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	10.0	U	3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	10.0	U	3.00	10.0	ug/L
88-74-4	2-Nitroaniline	10.0	U	3.10	10.0	ug/L
131-11-3	Dimethylphthalate	10.0	U	2.70	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	10.0	U	3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.		Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4		Date Received:	
Client Sample ID:	PB123559BL		SDG No.:	K5154
Lab Sample ID:	PB123559BL		Matrix:	Water
Analytical Method:	SW8270		% Moisture:	100
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042986.D	1	10/02/19 08:41	10/02/19 15:53	PB123559

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	10.0	U	4.20	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	4.20	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.40	10.0	ug/L
132-64-9	Dibenzofuran	10.0	U	3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	10.0	U	3.10	10.0	ug/L
84-66-2	Diethylphthalate	10.0	U	2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	3.30	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
100-01-6	4-Nitroaniline	10.0	U	3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	10.0	U	2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	10.0	U	2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	10.0	U	2.70	10.0	ug/L
1912-24-9	Atrazine	10.0	U	2.90	10.0	ug/L
87-86-5	Pentachlorophenol	10.0	U	4.30	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
86-74-8	Carbazole	10.0	U	3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	10.0	U	3.70	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	10.0	U	3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	10.0	U	3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	PB123559BL	SDG No.:	K5154
Lab Sample ID:	PB123559BL	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042986.D	1	10/02/19 08:41	10/02/19 15:53	PB123559

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U	3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U	2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	57.9		10 - 130	39%	SPK: 150
13127-88-3	Phenol-d6	35.0		10 - 130	23%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.8		36 - 131	97%	SPK: 100
321-60-8	2-Fluorobiphenyl	99.0		39 - 131	99%	SPK: 100
118-79-6	2,4,6-Tribromophenol	147		25 - 155	98%	SPK: 150
1718-51-0	Terphenyl-d14	105		23 - 130	105%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	62200	8.07			
1146-65-2	Naphthalene-d8	226000	10.87			
15067-26-2	Acenaphthene-d10	159000	14.69			
1517-22-2	Phenanthrene-d10	377000	17.43			
1719-03-5	Chrysene-d12	414000	21.7			
1520-96-3	Perylene-d12	463000	24.93			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.		Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4		Date Received:	
Client Sample ID:	PB123604BL		SDG No.:	K5154
Lab Sample ID:	PB123604BL		Matrix:	Water
Analytical Method:	SW8270		% Moisture:	100
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043068.D	1	10/03/19 08:20	10/07/19 15:20	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	2.90	10.0	ug/L
108-95-2	Phenol	10.0	U	2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	10.0	U	3.40	10.0	ug/L
95-57-8	2-Chlorophenol	10.0	U	2.50	10.0	ug/L
95-48-7	2-Methylphenol	10.0	U	2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	10.0	U	3.00	10.0	ug/L
98-86-2	Acetophenone	10.0	U	3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	10.0	U	4.70	10.0	ug/L
67-72-1	Hexachloroethane	10.0	U	2.90	10.0	ug/L
98-95-3	Nitrobenzene	10.0	U	2.60	10.0	ug/L
78-59-1	Isophorone	10.0	U	2.20	10.0	ug/L
88-75-5	2-Nitrophenol	10.0	U	3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	10.0	U	2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	10.0	U	2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	10.0	U	2.30	10.0	ug/L
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
106-47-8	4-Chloroaniline	10.0	U	4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	10.0	U	3.20	10.0	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	10.0	U	2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.0	U	2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	10.0	U	3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	10.0	U	3.00	10.0	ug/L
88-74-4	2-Nitroaniline	10.0	U	3.10	10.0	ug/L
131-11-3	Dimethylphthalate	5.40	J	2.70	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	10.0	U	3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.		Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4		Date Received:	
Client Sample ID:	PB123604BL		SDG No.:	K5154
Lab Sample ID:	PB123604BL		Matrix:	Water
Analytical Method:	SW8270		% Moisture:	100
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043068.D	1	10/03/19 08:20	10/07/19 15:20	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	10.0	U	4.20	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	4.20	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.40	10.0	ug/L
132-64-9	Dibenzofuran	10.0	U	3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	10.0	U	3.10	10.0	ug/L
84-66-2	Diethylphthalate	10.0	U	2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	3.30	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
100-01-6	4-Nitroaniline	10.0	U	3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	10.0	U	2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	10.0	U	2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	10.0	U	2.70	10.0	ug/L
1912-24-9	Atrazine	10.0	U	2.90	10.0	ug/L
87-86-5	Pentachlorophenol	10.0	U	4.30	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
86-74-8	Carbazole	10.0	U	3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	10.0	U	3.70	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	10.0	U	3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	10.0	U	3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	PB123604BL	SDG No.:	K5154
Lab Sample ID:	PB123604BL	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043068.D	1	10/03/19 08:20	10/07/19 15:20	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U	3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U	2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	121		10 - 130	80%	SPK: 150
13127-88-3	Phenol-d6	123		10 - 130	82%	SPK: 150
4165-60-0	Nitrobenzene-d5	79.6		36 - 131	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	83.9		39 - 131	84%	SPK: 100
118-79-6	2,4,6-Tribromophenol	144		25 - 155	96%	SPK: 150
1718-51-0	Terphenyl-d14	99.2		23 - 130	99%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	48300	8.06			
1146-65-2	Naphthalene-d8	178000	10.86			
15067-26-2	Acenaphthene-d10	142000	14.68			
1517-22-2	Phenanthrene-d10	378000	17.42			
1719-03-5	Chrysene-d12	438000	21.69			
1520-96-3	Perylene-d12	501000	24.91			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.		Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4		Date Received:	
Client Sample ID:	PB123704BL		SDG No.:	K5154
Lab Sample ID:	PB123704BL		Matrix:	Water
Analytical Method:	SW8270		% Moisture:	100
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043086.D	1	10/07/19 11:48	10/08/19 15:27	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	2.90	10.0	ug/L
108-95-2	Phenol	10.0	U	2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	10.0	U	3.40	10.0	ug/L
95-57-8	2-Chlorophenol	10.0	U	2.50	10.0	ug/L
95-48-7	2-Methylphenol	10.0	U	2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	10.0	U	3.00	10.0	ug/L
98-86-2	Acetophenone	10.0	U	3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	10.0	U	4.70	10.0	ug/L
67-72-1	Hexachloroethane	10.0	U	2.90	10.0	ug/L
98-95-3	Nitrobenzene	10.0	U	2.60	10.0	ug/L
78-59-1	Isophorone	10.0	U	2.20	10.0	ug/L
88-75-5	2-Nitrophenol	10.0	U	3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	10.0	U	2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	10.0	U	2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	10.0	U	2.30	10.0	ug/L
91-20-3	Naphthalene	10.0	U	2.50	10.0	ug/L
106-47-8	4-Chloroaniline	10.0	U	4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	10.0	U	3.20	10.0	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	10.0	U	2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	10.0	U	2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	10.0	U	2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.0	U	2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	10.0	U	3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	10.0	U	3.00	10.0	ug/L
88-74-4	2-Nitroaniline	10.0	U	3.10	10.0	ug/L
131-11-3	Dimethylphthalate	10.0	U	2.70	10.0	ug/L
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	10.0	U	3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.		Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4		Date Received:	
Client Sample ID:	PB123704BL		SDG No.:	K5154
Lab Sample ID:	PB123704BL		Matrix:	Water
Analytical Method:	SW8270		% Moisture:	100
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043086.D	1	10/07/19 11:48	10/08/19 15:27	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	10.0	U	4.20	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	4.20	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.40	10.0	ug/L
132-64-9	Dibenzofuran	10.0	U	3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	10.0	U	3.10	10.0	ug/L
84-66-2	Diethylphthalate	10.0	U	2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	3.30	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
100-01-6	4-Nitroaniline	10.0	U	3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	10.0	U	2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	10.0	U	2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	10.0	U	2.70	10.0	ug/L
1912-24-9	Atrazine	10.0	U	2.90	10.0	ug/L
87-86-5	Pentachlorophenol	10.0	U	4.30	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
86-74-8	Carbazole	10.0	U	3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	10.0	U	3.70	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	10.0	U	3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	10.0	U	3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.		Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4		Date Received:	
Client Sample ID:	PB123704BL		SDG No.:	K5154
Lab Sample ID:	PB123704BL		Matrix:	Water
Analytical Method:	SW8270		% Moisture:	100
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043086.D	1	10/07/19 11:48	10/08/19 15:27	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	10.0	U	3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	10.0	U	2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	140		10 - 130	93%	SPK: 150
13127-88-3	Phenol-d6	133		10 - 130	88%	SPK: 150
4165-60-0	Nitrobenzene-d5	95.7		36 - 131	96%	SPK: 100
321-60-8	2-Fluorobiphenyl	99.3		39 - 131	99%	SPK: 100
118-79-6	2,4,6-Tribromophenol	163		25 - 155	109%	SPK: 150
1718-51-0	Terphenyl-d14	108		23 - 130	108%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	62300	8.05			
1146-65-2	Naphthalene-d8	214000	10.86			
15067-26-2	Acenaphthene-d10	150000	14.68			
1517-22-2	Phenanthrene-d10	384000	17.42			
1719-03-5	Chrysene-d12	414000	21.69			
1520-96-3	Perylene-d12	454000	24.91			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.		Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4		Date Received:	
Client Sample ID:	PB123559BS		SDG No.:	K5154
Lab Sample ID:	PB123559BS		Matrix:	Water
Analytical Method:	SW8270		% Moisture:	100
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042987.D	1	10/02/19 08:41	10/02/19 16:32	PB123559

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	29.3		2.90	10.0	ug/L
108-95-2	Phenol	47.4		2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	41.6		3.40	10.0	ug/L
95-57-8	2-Chlorophenol	47.5		2.50	10.0	ug/L
95-48-7	2-Methylphenol	45.3		2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	37.4		3.00	10.0	ug/L
98-86-2	Acetophenone	40.2		3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	46.0		3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	40.1		4.70	10.0	ug/L
67-72-1	Hexachloroethane	41.0		2.90	10.0	ug/L
98-95-3	Nitrobenzene	41.9		2.60	10.0	ug/L
78-59-1	Isophorone	40.4		2.20	10.0	ug/L
88-75-5	2-Nitrophenol	47.1		3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	50.7		2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	39.8		2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	47.2		2.30	10.0	ug/L
91-20-3	Naphthalene	43.2		2.50	10.0	ug/L
106-47-8	4-Chloroaniline	26.8		4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	39.7		3.20	10.0	ug/L
105-60-2	Caprolactam	40.7		3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	45.7		2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	42.8		2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	71.0		7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	43.9		2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	45.6		2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	39.2		3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	41.4		3.00	10.0	ug/L
88-74-4	2-Nitroaniline	42.2		3.10	10.0	ug/L
131-11-3	Dimethylphthalate	40.9		2.70	10.0	ug/L
208-96-8	Acenaphthylene	43.5		2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	44.1		3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.		Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4		Date Received:	
Client Sample ID:	PB123559BS		SDG No.:	K5154
Lab Sample ID:	PB123559BS		Matrix:	Water
Analytical Method:	SW8270		% Moisture:	100
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042987.D	1	10/02/19 08:41	10/02/19 16:32	PB123559

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	31.4		4.20	10.0	ug/L
83-32-9	Acenaphthene	39.8		2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	83.6		4.20	10.0	ug/L
100-02-7	4-Nitrophenol	92.7		3.40	10.0	ug/L
132-64-9	Dibenzofuran	42.8		3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	43.0		3.10	10.0	ug/L
84-66-2	Diethylphthalate	40.1		2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	41.8		3.30	10.0	ug/L
86-73-7	Fluorene	42.8		2.50	10.0	ug/L
100-01-6	4-Nitroaniline	40.8		3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	45.3		3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	43.0		2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	41.8		2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	41.2		2.70	10.0	ug/L
1912-24-9	Atrazine	40.7		2.90	10.0	ug/L
87-86-5	Pentachlorophenol	90.1		4.30	10.0	ug/L
85-01-8	Phenanthrene	42.3		2.50	10.0	ug/L
120-12-7	Anthracene	43.4		2.50	10.0	ug/L
86-74-8	Carbazole	43.4		3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	41.4		3.70	10.0	ug/L
206-44-0	Fluoranthene	43.2		2.90	10.0	ug/L
129-00-0	Pyrene	42.7		2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	42.5		3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	36.5		5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	42.4		2.30	10.0	ug/L
218-01-9	Chrysene	42.2		2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	42.8		3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	44.6		3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	47.1		2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	47.6		2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	49.2		2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	44.3		3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	49.7		2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	PB123559BS	SDG No.:	K5154
Lab Sample ID:	PB123559BS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042987.D	1	10/02/19 08:41	10/02/19 16:32	PB123559

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	49.8		2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	39.5		3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	44.8		2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	118		10 - 130	78%	SPK: 150
13127-88-3	Phenol-d6	110		10 - 130	73%	SPK: 150
4165-60-0	Nitrobenzene-d5	65.8		36 - 131	66%	SPK: 100
321-60-8	2-Fluorobiphenyl	67.1		39 - 131	67%	SPK: 100
118-79-6	2,4,6-Tribromophenol	112		25 - 155	75%	SPK: 150
1718-51-0	Terphenyl-d14	71.6		23 - 130	72%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	61900	8.07			
1146-65-2	Naphthalene-d8	248000	10.87			
15067-26-2	Acenaphthene-d10	181000	14.69			
1517-22-2	Phenanthrene-d10	445000	17.43			
1719-03-5	Chrysene-d12	492000	21.71			
1520-96-3	Perylene-d12	516000	24.93			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.		Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4		Date Received:	
Client Sample ID:	PB123604BS		SDG No.:	K5154
Lab Sample ID:	PB123604BS		Matrix:	Water
Analytical Method:	SW8270		% Moisture:	100
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043033.D	1	10/03/19 08:20	10/04/19 18:17	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	27.3		2.90	10.0	ug/L
108-95-2	Phenol	47.1		2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	41.3		3.40	10.0	ug/L
95-57-8	2-Chlorophenol	47.9		2.50	10.0	ug/L
95-48-7	2-Methylphenol	47.0		2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	34.5		3.00	10.0	ug/L
98-86-2	Acetophenone	40.1		3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	46.2		3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	41.4		4.70	10.0	ug/L
67-72-1	Hexachloroethane	39.9		2.90	10.0	ug/L
98-95-3	Nitrobenzene	41.5		2.60	10.0	ug/L
78-59-1	Isophorone	41.6		2.20	10.0	ug/L
88-75-5	2-Nitrophenol	47.8		3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	53.9		2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	41.6		2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	47.3		2.30	10.0	ug/L
91-20-3	Naphthalene	42.9		2.50	10.0	ug/L
106-47-8	4-Chloroaniline	32.0		4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	38.8		3.20	10.0	ug/L
105-60-2	Caprolactam	43.3		3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	46.3		2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	43.4		2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	77.0		7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	44.7		2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	46.1		2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	39.2		3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	41.3		3.00	10.0	ug/L
88-74-4	2-Nitroaniline	41.1		3.10	10.0	ug/L
131-11-3	Dimethylphthalate	41.3		2.70	10.0	ug/L
208-96-8	Acenaphthylene	43.0		2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	44.8		3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	PB123604BS	SDG No.:	K5154
Lab Sample ID:	PB123604BS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043033.D	1	10/03/19 08:20	10/04/19 18:17	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	34.7		4.20	10.0	ug/L
83-32-9	Acenaphthene	39.7		2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	90.0		4.20	10.0	ug/L
100-02-7	4-Nitrophenol	92.4		3.40	10.0	ug/L
132-64-9	Dibenzofuran	41.9		3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	43.2		3.10	10.0	ug/L
84-66-2	Diethylphthalate	40.9		2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	40.2		3.30	10.0	ug/L
86-73-7	Fluorene	41.7		2.50	10.0	ug/L
100-01-6	4-Nitroaniline	41.0		3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	47.5		3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	43.7		2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	42.0		2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	41.1		2.70	10.0	ug/L
1912-24-9	Atrazine	40.1		2.90	10.0	ug/L
87-86-5	Pentachlorophenol	94.8		4.30	10.0	ug/L
85-01-8	Phenanthrene	42.0		2.50	10.0	ug/L
120-12-7	Anthracene	42.9		2.50	10.0	ug/L
86-74-8	Carbazole	42.9		3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	41.3		3.70	10.0	ug/L
206-44-0	Fluoranthene	42.3		2.90	10.0	ug/L
129-00-0	Pyrene	41.3		2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	42.7		3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	40.7		5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	41.0		2.30	10.0	ug/L
218-01-9	Chrysene	41.5		2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	42.7		3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	44.2		3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	48.7		2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	48.2		2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	50.4		2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	43.6		3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	51.2		2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	PB123604BS	SDG No.:	K5154
Lab Sample ID:	PB123604BS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043033.D	1	10/03/19 08:20	10/04/19 18:17	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	51.6		2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	38.8		3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	43.2		2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	118		10 - 130	79%	SPK: 150
13127-88-3	Phenol-d6	111		10 - 130	74%	SPK: 150
4165-60-0	Nitrobenzene-d5	64.4		36 - 131	64%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.8		39 - 131	66%	SPK: 100
118-79-6	2,4,6-Tribromophenol	112		25 - 155	74%	SPK: 150
1718-51-0	Terphenyl-d14	69.2		23 - 130	69%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	70500	8.06			
1146-65-2	Naphthalene-d8	282000	10.87			
15067-26-2	Acenaphthene-d10	208000	14.69			
1517-22-2	Phenanthrene-d10	496000	17.42			
1719-03-5	Chrysene-d12	556000	21.7			
1520-96-3	Perylene-d12	563000	24.91			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.		Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4		Date Received:	
Client Sample ID:	PB123704BS		SDG No.:	K5154
Lab Sample ID:	PB123704BS		Matrix:	Water
Analytical Method:	SW8270		% Moisture:	100
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043084.D	1	10/07/19 11:48	10/08/19 14:11	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	36.0		2.90	10.0	ug/L
108-95-2	Phenol	47.1		2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	43.7		3.40	10.0	ug/L
95-57-8	2-Chlorophenol	48.2		2.50	10.0	ug/L
95-48-7	2-Methylphenol	44.8		2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	31.4		3.00	10.0	ug/L
98-86-2	Acetophenone	39.3		3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	45.0		3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	38.8		4.70	10.0	ug/L
67-72-1	Hexachloroethane	38.9		2.90	10.0	ug/L
98-95-3	Nitrobenzene	40.3		2.60	10.0	ug/L
78-59-1	Isophorone	40.1		2.20	10.0	ug/L
88-75-5	2-Nitrophenol	46.5		3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	50.6		2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	40.6		2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	46.3		2.30	10.0	ug/L
91-20-3	Naphthalene	42.8		2.50	10.0	ug/L
106-47-8	4-Chloroaniline	11.7		4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	37.9		3.20	10.0	ug/L
105-60-2	Caprolactam	42.8		3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	45.4		2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	42.9		2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	86.3		7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	42.6		2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	44.2		2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	38.5		3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	39.5		3.00	10.0	ug/L
88-74-4	2-Nitroaniline	38.7		3.10	10.0	ug/L
131-11-3	Dimethylphthalate	40.8		2.70	10.0	ug/L
208-96-8	Acenaphthylene	42.5		2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	44.3		3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	PB123704BS	SDG No.:	K5154
Lab Sample ID:	PB123704BS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043084.D	1	10/07/19 11:48	10/08/19 14:11	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	27.0		4.20	10.0	ug/L
83-32-9	Acenaphthene	38.2		2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	88.1		4.20	10.0	ug/L
100-02-7	4-Nitrophenol	90.6		3.40	10.0	ug/L
132-64-9	Dibenzofuran	41.9		3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	43.6		3.10	10.0	ug/L
84-66-2	Diethylphthalate	40.3		2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	40.6		3.30	10.0	ug/L
86-73-7	Fluorene	41.7		2.50	10.0	ug/L
100-01-6	4-Nitroaniline	38.4		3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	48.2		3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	43.1		2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	41.0		2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	41.9		2.70	10.0	ug/L
1912-24-9	Atrazine	43.2		2.90	10.0	ug/L
87-86-5	Pentachlorophenol	89.5		4.30	10.0	ug/L
85-01-8	Phenanthrene	42.4		2.50	10.0	ug/L
120-12-7	Anthracene	44.0		2.50	10.0	ug/L
86-74-8	Carbazole	43.3		3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	42.1		3.70	10.0	ug/L
206-44-0	Fluoranthene	42.7		2.90	10.0	ug/L
129-00-0	Pyrene	42.2		2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	40.8		3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	26.8		5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	41.8		2.30	10.0	ug/L
218-01-9	Chrysene	41.3		2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	41.3		3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	42.8		3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	41.7		2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	42.5		2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	41.5		2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	42.4		3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	43.7		2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	PB123704BS	SDG No.:	K5154
Lab Sample ID:	PB123704BS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043084.D	1	10/07/19 11:48	10/08/19 14:11	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	44.4		2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	36.7		3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	42.0		2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	124		10 - 130	83%	SPK: 150
13127-88-3	Phenol-d6	118		10 - 130	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	59.3		36 - 131	59%	SPK: 100
321-60-8	2-Fluorobiphenyl	61.9		39 - 131	62%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		25 - 155	80%	SPK: 150
1718-51-0	Terphenyl-d14	69.5		23 - 130	70%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	44200	8.06			
1146-65-2	Naphthalene-d8	175000	10.86			
15067-26-2	Acenaphthene-d10	132000	14.68			
1517-22-2	Phenanthrene-d10	322000	17.42			
1719-03-5	Chrysene-d12	361000	21.69			
1520-96-3	Perylene-d12	408000	24.9			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.		Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4		Date Received:	
Client Sample ID:	PB123559BSD		SDG No.:	K5154
Lab Sample ID:	PB123559BSD		Matrix:	Water
Analytical Method:	SW8270		% Moisture:	100
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042988.D	1	10/02/19 08:41	10/02/19 17:10	PB123559

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	30.8		2.90	10.0	ug/L
108-95-2	Phenol	48.0		2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	43.2		3.40	10.0	ug/L
95-57-8	2-Chlorophenol	48.6		2.50	10.0	ug/L
95-48-7	2-Methylphenol	46.5		2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	37.0		3.00	10.0	ug/L
98-86-2	Acetophenone	40.1		3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	47.5		3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	41.4		4.70	10.0	ug/L
67-72-1	Hexachloroethane	41.2		2.90	10.0	ug/L
98-95-3	Nitrobenzene	43.3		2.60	10.0	ug/L
78-59-1	Isophorone	41.6		2.20	10.0	ug/L
88-75-5	2-Nitrophenol	48.3		3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	51.7		2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	40.8		2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	47.5		2.30	10.0	ug/L
91-20-3	Naphthalene	43.3		2.50	10.0	ug/L
106-47-8	4-Chloroaniline	27.7		4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	39.0		3.20	10.0	ug/L
105-60-2	Caprolactam	44.0		3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	46.2		2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	43.1		2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	71.5		7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	44.3		2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	45.5		2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	39.5		3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	42.1		3.00	10.0	ug/L
88-74-4	2-Nitroaniline	42.4		3.10	10.0	ug/L
131-11-3	Dimethylphthalate	40.7		2.70	10.0	ug/L
208-96-8	Acenaphthylene	44.1		2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	44.7		3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	PB123559BSD	SDG No.:	K5154
Lab Sample ID:	PB123559BSD	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042988.D	1	10/02/19 08:41	10/02/19 17:10	PB123559

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	32.5		4.20	10.0	ug/L
83-32-9	Acenaphthene	40.5		2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	86.2		4.20	10.0	ug/L
100-02-7	4-Nitrophenol	92.0		3.40	10.0	ug/L
132-64-9	Dibenzofuran	43.0		3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	43.4		3.10	10.0	ug/L
84-66-2	Diethylphthalate	40.7		2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	40.8		3.30	10.0	ug/L
86-73-7	Fluorene	42.4		2.50	10.0	ug/L
100-01-6	4-Nitroaniline	42.1		3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	46.7		3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	44.6		2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	43.3		2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	41.8		2.70	10.0	ug/L
1912-24-9	Atrazine	40.3		2.90	10.0	ug/L
87-86-5	Pentachlorophenol	93.2		4.30	10.0	ug/L
85-01-8	Phenanthrene	43.5		2.50	10.0	ug/L
120-12-7	Anthracene	44.6		2.50	10.0	ug/L
86-74-8	Carbazole	44.0		3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	42.1		3.70	10.0	ug/L
206-44-0	Fluoranthene	43.1		2.90	10.0	ug/L
129-00-0	Pyrene	42.4		2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	42.6		3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	36.7		5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	42.0		2.30	10.0	ug/L
218-01-9	Chrysene	42.4		2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	43.3		3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	44.5		3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	48.3		2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	47.6		2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	50.0		2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	44.1		3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	49.8		2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.		Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4		Date Received:	
Client Sample ID:	PB123559BSD		SDG No.:	K5154
Lab Sample ID:	PB123559BSD		Matrix:	Water
Analytical Method:	SW8270		% Moisture:	100
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG042988.D	1	10/02/19 08:41	10/02/19 17:10	PB123559

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	49.5		2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	39.3		3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	44.6		2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	122		10 - 130	81%	SPK: 150
13127-88-3	Phenol-d6	114		10 - 130	76%	SPK: 150
4165-60-0	Nitrobenzene-d5	65.9		36 - 131	66%	SPK: 100
321-60-8	2-Fluorobiphenyl	66.9		39 - 131	67%	SPK: 100
118-79-6	2,4,6-Tribromophenol	112		25 - 155	75%	SPK: 150
1718-51-0	Terphenyl-d14	70.8		23 - 130	71%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	65300	8.07			
1146-65-2	Naphthalene-d8	262000	10.87			
15067-26-2	Acenaphthene-d10	191000	14.69			
1517-22-2	Phenanthrene-d10	455000	17.44			
1719-03-5	Chrysene-d12	508000	21.71			
1520-96-3	Perylene-d12	524000	24.93			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.		Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4		Date Received:	
Client Sample ID:	PB123704BSD		SDG No.:	K5154
Lab Sample ID:	PB123704BSD		Matrix:	Water
Analytical Method:	SW8270		% Moisture:	100
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043085.D	1	10/07/19 11:48	10/08/19 14:49	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	34.1		2.90	10.0	ug/L
108-95-2	Phenol	46.4		2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	41.0		3.40	10.0	ug/L
95-57-8	2-Chlorophenol	47.4		2.50	10.0	ug/L
95-48-7	2-Methylphenol	44.2		2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	30.9		3.00	10.0	ug/L
98-86-2	Acetophenone	39.9		3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	43.4		3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	38.7		4.70	10.0	ug/L
67-72-1	Hexachloroethane	39.3		2.90	10.0	ug/L
98-95-3	Nitrobenzene	41.3		2.60	10.0	ug/L
78-59-1	Isophorone	40.8		2.20	10.0	ug/L
88-75-5	2-Nitrophenol	48.1		3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	50.7		2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	40.6		2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	47.1		2.30	10.0	ug/L
91-20-3	Naphthalene	43.0		2.50	10.0	ug/L
106-47-8	4-Chloroaniline	11.8		4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	37.8		3.20	10.0	ug/L
105-60-2	Caprolactam	42.6		3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	46.5		2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	43.3		2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	88.7		7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	42.2		2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	45.2		2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	38.5		3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	40.6		3.00	10.0	ug/L
88-74-4	2-Nitroaniline	39.3		3.10	10.0	ug/L
131-11-3	Dimethylphthalate	40.6		2.70	10.0	ug/L
208-96-8	Acenaphthylene	42.5		2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	44.0		3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	PB123704BSD	SDG No.:	K5154
Lab Sample ID:	PB123704BSD	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043085.D	1	10/07/19 11:48	10/08/19 14:49	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	26.7		4.20	10.0	ug/L
83-32-9	Acenaphthene	38.3		2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	87.5		4.20	10.0	ug/L
100-02-7	4-Nitrophenol	86.0		3.40	10.0	ug/L
132-64-9	Dibenzofuran	41.7		3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	42.8		3.10	10.0	ug/L
84-66-2	Diethylphthalate	39.5		2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	39.5		3.30	10.0	ug/L
86-73-7	Fluorene	40.9		2.50	10.0	ug/L
100-01-6	4-Nitroaniline	37.8		3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	48.0		3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	43.4		2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	41.7		2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	42.5		2.70	10.0	ug/L
1912-24-9	Atrazine	42.9		2.90	10.0	ug/L
87-86-5	Pentachlorophenol	89.3		4.30	10.0	ug/L
85-01-8	Phenanthrene	41.9		2.50	10.0	ug/L
120-12-7	Anthracene	44.3		2.50	10.0	ug/L
86-74-8	Carbazole	42.5		3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	41.4		3.70	10.0	ug/L
206-44-0	Fluoranthene	42.2		2.90	10.0	ug/L
129-00-0	Pyrene	42.0		2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	41.1		3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	27.5		5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	41.9		2.30	10.0	ug/L
218-01-9	Chrysene	41.1		2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	42.0		3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	43.0		3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	41.4		2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	42.5		2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	41.2		2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	42.6		3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	43.7		2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	PB123704BSD	SDG No.:	K5154
Lab Sample ID:	PB123704BSD	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043085.D	1	10/07/19 11:48	10/08/19 14:49	PB123704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	44.6		2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	37.3		3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	41.9		2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	124		10 - 130	83%	SPK: 150
13127-88-3	Phenol-d6	117		10 - 130	78%	SPK: 150
4165-60-0	Nitrobenzene-d5	60.4		36 - 131	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	62.6		39 - 131	63%	SPK: 100
118-79-6	2,4,6-Tribromophenol	118		25 - 155	78%	SPK: 150
1718-51-0	Terphenyl-d14	68.8		23 - 130	69%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	48600	8.06			
1146-65-2	Naphthalene-d8	188000	10.86			
15067-26-2	Acenaphthene-d10	140000	14.68			
1517-22-2	Phenanthrene-d10	329000	17.42			
1719-03-5	Chrysene-d12	362000	21.69			
1520-96-3	Perylene-d12	414000	24.9			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103IMS	SDG No.:	K5154
Lab Sample ID:	K5154-12MS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043039.D	1	10/03/19 08:20	10/04/19 22:06	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	35.2		2.90	10.0	ug/L
108-95-2	Phenol	23.9		2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	37.2		3.40	10.0	ug/L
95-57-8	2-Chlorophenol	42.3		2.50	10.0	ug/L
95-48-7	2-Methylphenol	39.0		2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	29.8		3.00	10.0	ug/L
98-86-2	Acetophenone	37.6		3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	35.7		3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	37.5		4.70	10.0	ug/L
67-72-1	Hexachloroethane	30.2		2.90	10.0	ug/L
98-95-3	Nitrobenzene	39.3		2.60	10.0	ug/L
78-59-1	Isophorone	40.5		2.20	10.0	ug/L
88-75-5	2-Nitrophenol	46.2		3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	50.7		2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	39.8		2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	45.7		2.30	10.0	ug/L
91-20-3	Naphthalene	38.4		2.50	10.0	ug/L
106-47-8	4-Chloroaniline	17.0		4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	32.2		3.20	10.0	ug/L
105-60-2	Caprolactam	14.7		3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	44.9		2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	39.7		2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	70.5		7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	44.7		2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	45.7		2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	38.0		3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	39.2		3.00	10.0	ug/L
88-74-4	2-Nitroaniline	40.7		3.10	10.0	ug/L
131-11-3	Dimethylphthalate	52.1		2.70	10.0	ug/L
208-96-8	Acenaphthylene	41.4		2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	44.2		3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103IMS	SDG No.:	K5154
Lab Sample ID:	K5154-12MS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043039.D	1	10/03/19 08:20	10/04/19 22:06	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	21.6		4.20	10.0	ug/L
83-32-9	Acenaphthene	39.0		2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	93.7		4.20	10.0	ug/L
100-02-7	4-Nitrophenol	48.0		3.40	10.0	ug/L
132-64-9	Dibenzofuran	41.0		3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	42.4		3.10	10.0	ug/L
84-66-2	Diethylphthalate	41.0		2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	40.0		3.30	10.0	ug/L
86-73-7	Fluorene	41.0		2.50	10.0	ug/L
100-01-6	4-Nitroaniline	39.9		3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	49.0		3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	43.7		2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	42.0		2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	41.0		2.70	10.0	ug/L
1912-24-9	Atrazine	39.6		2.90	10.0	ug/L
87-86-5	Pentachlorophenol	91.8		4.30	10.0	ug/L
85-01-8	Phenanthrene	41.6		2.50	10.0	ug/L
120-12-7	Anthracene	42.5		2.50	10.0	ug/L
86-74-8	Carbazole	42.3		3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	40.5		3.70	10.0	ug/L
206-44-0	Fluoranthene	40.5		2.90	10.0	ug/L
129-00-0	Pyrene	40.8		2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	41.8		3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	21.4		5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	40.4		2.30	10.0	ug/L
218-01-9	Chrysene	40.8		2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	42.1		3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	43.9		3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	40.9		2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	40.4		2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	42.5		2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	43.6		3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	42.7		2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103IMS	SDG No.:	K5154
Lab Sample ID:	K5154-12MS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043039.D	1	10/03/19 08:20	10/04/19 22:06	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	43.1		2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	37.2		3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	42.6		2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	81.2		10 - 130	54%	SPK: 150
13127-88-3	Phenol-d6	53.8		10 - 130	36%	SPK: 150
4165-60-0	Nitrobenzene-d5	74.6		36 - 131	75%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.2		39 - 131	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	123		25 - 155	82%	SPK: 150
1718-51-0	Terphenyl-d14	81.7		23 - 130	82%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	74100	8.06			
1146-65-2	Naphthalene-d8	283000	10.87			
15067-26-2	Acenaphthene-d10	202000	14.69			
1517-22-2	Phenanthrene-d10	477000	17.42			
1719-03-5	Chrysene-d12	520000	21.7			
1520-96-3	Perylene-d12	616000	24.91			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103IMSD	SDG No.:	K5154
Lab Sample ID:	K5154-13MSD	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043040.D	1	10/03/19 08:20	10/04/19 22:44	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	35.8		2.90	10.0	ug/L
108-95-2	Phenol	24.1		2.20	10.0	ug/L
111-44-4	bis(2-Chloroethyl)ether	36.7		3.40	10.0	ug/L
95-57-8	2-Chlorophenol	41.6		2.50	10.0	ug/L
95-48-7	2-Methylphenol	37.5		2.80	10.0	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	29.9		3.00	10.0	ug/L
98-86-2	Acetophenone	38.5		3.20	10.0	ug/L
65794-96-9	3+4-Methylphenols	33.6		3.40	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	36.0		4.70	10.0	ug/L
67-72-1	Hexachloroethane	30.5		2.90	10.0	ug/L
98-95-3	Nitrobenzene	39.8		2.60	10.0	ug/L
78-59-1	Isophorone	40.3		2.20	10.0	ug/L
88-75-5	2-Nitrophenol	47.4		3.60	10.0	ug/L
105-67-9	2,4-Dimethylphenol	50.0		2.80	10.0	ug/L
111-91-1	bis(2-Chloroethoxy)methane	39.3		2.50	10.0	ug/L
120-83-2	2,4-Dichlorophenol	45.0		2.30	10.0	ug/L
91-20-3	Naphthalene	39.1		2.50	10.0	ug/L
106-47-8	4-Chloroaniline	19.7		4.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	33.1		3.20	10.0	ug/L
105-60-2	Caprolactam	13.8		3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	43.6		2.50	10.0	ug/L
91-57-6	2-Methylnaphthalene	39.5		2.50	10.0	ug/L
77-47-4	Hexachlorocyclopentadiene	71.3		7.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	41.8		2.80	10.0	ug/L
95-95-4	2,4,5-Trichlorophenol	42.6		2.80	10.0	ug/L
92-52-4	1,1-Biphenyl	36.9		3.30	10.0	ug/L
91-58-7	2-Chloronaphthalene	38.4		3.00	10.0	ug/L
88-74-4	2-Nitroaniline	37.9		3.10	10.0	ug/L
131-11-3	Dimethylphthalate	49.2		2.70	10.0	ug/L
208-96-8	Acenaphthylene	39.8		2.70	10.0	ug/L
606-20-2	2,6-Dinitrotoluene	42.3		3.10	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103IMSD	SDG No.:	K5154
Lab Sample ID:	K5154-13MSD	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043040.D	1	10/03/19 08:20	10/04/19 22:44	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	21.9		4.20	10.0	ug/L
83-32-9	Acenaphthene	37.1		2.80	10.0	ug/L
51-28-5	2,4-Dinitrophenol	84.7		4.20	10.0	ug/L
100-02-7	4-Nitrophenol	41.7		3.40	10.0	ug/L
132-64-9	Dibenzofuran	39.2		3.20	10.0	ug/L
121-14-2	2,4-Dinitrotoluene	39.4		3.10	10.0	ug/L
84-66-2	Diethylphthalate	37.2		2.90	10.0	ug/L
7005-72-3	4-Chlorophenyl-phenylether	37.2		3.30	10.0	ug/L
86-73-7	Fluorene	38.3		2.50	10.0	ug/L
100-01-6	4-Nitroaniline	36.7		3.40	10.0	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	46.4		3.50	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	41.7		2.90	10.0	ug/L
101-55-3	4-Bromophenyl-phenylether	41.1		2.60	10.0	ug/L
118-74-1	Hexachlorobenzene	40.0		2.70	10.0	ug/L
1912-24-9	Atrazine	37.4		2.90	10.0	ug/L
87-86-5	Pentachlorophenol	85.2		4.30	10.0	ug/L
85-01-8	Phenanthrene	39.7		2.50	10.0	ug/L
120-12-7	Anthracene	40.7		2.50	10.0	ug/L
86-74-8	Carbazole	39.7		3.20	10.0	ug/L
84-74-2	Di-n-butylphthalate	37.9		3.70	10.0	ug/L
206-44-0	Fluoranthene	37.7		2.90	10.0	ug/L
129-00-0	Pyrene	39.1		2.50	10.0	ug/L
85-68-7	Butylbenzylphthalate	39.9		3.10	10.0	ug/L
91-94-1	3,3-Dichlorobenzidine	21.5		5.00	10.0	ug/L
56-55-3	Benzo(a)anthracene	38.8		2.30	10.0	ug/L
218-01-9	Chrysene	38.7		2.40	10.0	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	40.4		3.60	10.0	ug/L
117-84-0	Di-n-octyl phthalate	41.7		3.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	38.4		2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	38.5		2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	40.3		2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	41.5		3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	40.6		2.60	10.0	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103IMSD	SDG No.:	K5154
Lab Sample ID:	K5154-13MSD	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG043040.D	1	10/03/19 08:20	10/04/19 22:44	PB123604

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	40.9		2.60	10.0	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	35.9		3.10	10.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	40.0		2.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	76.6		10 - 130	51%	SPK: 150
13127-88-3	Phenol-d6	48.9		10 - 130	33%	SPK: 150
4165-60-0	Nitrobenzene-d5	75.6		36 - 131	76%	SPK: 100
321-60-8	2-Fluorobiphenyl	71.4		39 - 131	71%	SPK: 100
118-79-6	2,4,6-Tribromophenol	115		25 - 155	77%	SPK: 150
1718-51-0	Terphenyl-d14	77.8		23 - 130	78%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	79600	8.06			
1146-65-2	Naphthalene-d8	299000	10.86			
15067-26-2	Acenaphthene-d10	218000	14.68			
1517-22-2	Phenanthrene-d10	497000	17.43			
1719-03-5	Chrysene-d12	532000	21.7			
1520-96-3	Perylene-d12	632000	24.91			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: BNA_G Calibration Date(s): 09/25/2019 09/25/2019
 Calibration Time(s): 10:52 14:41

LAB FILE ID:	RRF010 = BG042922.D			RRF020 = BG042923.D		RRF040 = BG042924.D		
	RRF050 = BG042925.D			RRF060 = BG042926.D		RRF080 = BG042927.D		
COMPOUND	RRF010	RRF020	RRF040	RRF050	RRF060	RRF080	RRF	% RSD
2-Fluorophenol	1.087	1.086	1.086	1.176	1.171	1.144	1.121	3.7
Benzaldehyde	1.099	1.049	1.059	0.884	0.840		0.986	11.8
Phenol-d6	1.583	1.653	1.608	1.669	1.627	1.606	1.614	2.5
Phenol	1.435	1.500	1.465	1.564	1.498	1.461	1.481	3.0
bis(2-Chloroethyl)ether	1.172	1.117	1.126	1.191	1.174	1.137	1.146	2.9
2-Chlorophenol	1.174	1.189	1.158	1.193	1.177	1.157	1.169	1.8
2-Methylphenol	1.036	1.017	1.053	1.067	1.050	1.036	1.036	2.4
2,2-oxybis(1-Chloropropane)	2.390	2.348	2.180	2.217	2.154	2.095	2.200	6.0
Acetophenone	0.508	0.529	0.559	0.521	0.497	0.498	0.516	4.4
3+4-Methylphenols	1.372	1.449	1.425	1.455	1.433	1.424	1.420	2.3
n-Nitroso-di-n-propylamine	1.089	1.097	1.067	1.087	1.042	1.021	1.060	3.2
Nitrobenzene-d5	0.418	0.417	0.410	0.418	0.401	0.409	0.411	1.6
Hexachloroethane	0.618	0.553	0.539	0.559	0.556	0.546	0.560	4.7
Nitrobenzene	0.399	0.396	0.385	0.402	0.387	0.392	0.392	1.8
Isophorone	0.725	0.745	0.724	0.723	0.699	0.719	0.723	1.9
2-Nitrophenol	0.156	0.162	0.163	0.171	0.167	0.173	0.167	4.3
2,4-Dimethylphenol	0.255	0.260	0.250	0.264	0.250	0.256	0.257	2.1
bis(2-Chloroethoxy)methane	0.422	0.422	0.411	0.417	0.398	0.397	0.410	2.7
2,4-Dichlorophenol	0.297	0.328	0.322	0.328	0.315	0.321	0.319	3.3
Naphthalene	1.057	1.021	0.960	0.988	0.952	0.962	0.985	4.1
4-Chloroaniline	0.418	0.429	0.431	0.427	0.419	0.433	0.427	1.5
Hexachlorobutadiene	0.330	0.324	0.299	0.305	0.300	0.302	0.309	4.1
Caprolactam	0.108	0.111	0.113	0.113	0.107	0.117	0.113	3.7
4-Chloro-3-methylphenol	0.340	0.350	0.354	0.348	0.337	0.346	0.347	1.8
2-Methylnaphthalene	0.805	0.777	0.746	0.750	0.717	0.731	0.751	4.1
Hexachlorocyclopentadiene	0.460	0.479	0.467	0.491	0.488	0.484	0.479	2.4
2,4,6-Trichlorophenol	0.423	0.440	0.428	0.444	0.447	0.450	0.440	2.4
2-Fluorobiphenyl	1.499	1.479	1.351	1.389	1.356	1.312	1.380	6.1
2,4,5-Trichlorophenol	0.434	0.465	0.435	0.459	0.450	0.466	0.453	3.0
1,1-Biphenyl	1.574	1.582	1.621	1.490	1.469	1.448	1.517	4.9
2-Chloronaphthalene	1.183	1.169	1.102	1.149	1.124	1.118	1.137	2.6
2-Nitroaniline	0.344	0.357	0.366	0.389	0.384	0.402	0.378	6.1
Dimethylphthalate	1.609	1.580	1.442	1.467	1.470	1.463	1.499	4.5
Acenaphthylene	1.830	1.798	1.676	1.753	1.732	1.709	1.740	3.3
2,6-Dinitrotoluene	0.305	0.321	0.310	0.322	0.319	0.327	0.319	2.7
3-Nitroaniline	0.316	0.324	0.320	0.329	0.335	0.339	0.330	3.2

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154

Instrument ID: BNA_G Calibration Date(s): 09/25/2019 09/25/2019

Calibration Time(s): 10:52 14:41

LAB FILE ID:	RRF010 = BG042922.D			RRF020 = BG042923.D		RRF040 = BG042924.D		
	RRF050 = BG042925.D			RRF060 = BG042926.D		RRF080 = BG042927.D		
COMPOUND	RRF010	RRF020	RRF040	RRF050	RRF060	RRF080	RRF	% RSD
Acenaphthene	1.244	1.224	1.164	1.114	1.204	1.113	1.165	5.2
2,4-Dinitrophenol	0.164	0.171	0.192	0.203	0.210	0.220	0.198	12.1
4-Nitrophenol	0.204	0.240	0.248	0.257	0.262	0.273	0.251	9.6
Dibenzofuran	1.880	1.829	1.670	1.702	1.671	1.663	1.723	5.4
2,4-Dinitrotoluene	0.446	0.479	0.455	0.464	0.469	0.475	0.467	2.8
Diethylphthalate	1.647	1.592	1.475	1.492	1.490	1.500	1.525	4.4
4-Chlorophenyl-phenylether	0.968	0.934	0.843	0.860	0.850	0.859	0.882	5.5
Fluorene	1.592	1.550	1.427	1.440	1.428	1.435	1.471	4.7
4-Nitroaniline	0.342	0.360	0.340	0.363	0.361	0.379	0.360	4.0
4,6-Dinitro-2-methylphenol	0.093	0.108	0.115	0.114	0.121	0.119	0.113	8.7
n-Nitrosodiphenylamine	0.542	0.548	0.531	0.532	0.521	0.515	0.528	2.8
2,4,6-Tribromophenol	0.353	0.347	0.328	0.338	0.339	0.350	0.344	2.7
4-Bromophenyl-phenylether	0.251	0.263	0.256	0.255	0.244	0.245	0.251	2.9
Hexachlorobenzene	0.284	0.288	0.279	0.285	0.273	0.275	0.279	2.3
Atrazine	0.238	0.233	0.231	0.222	0.219	0.211	0.222	5.7
Pentachlorophenol	0.137	0.152	0.164	0.169	0.166	0.171	0.161	7.9
Phenanthrene	1.050	1.040	0.983	0.983	0.961	0.921	0.976	5.8
Anthracene	1.032	1.027	0.984	0.993	0.958	0.926	0.975	5.0
Carbazole	0.941	0.942	0.904	0.922	0.906	0.875	0.904	4.2
Di-n-butylphthalate	1.115	1.117	1.094	1.096	1.095	1.043	1.078	4.3
Fluoranthene	1.438	1.381	1.292	1.304	1.290	1.201	1.291	7.9
Pyrene	1.341	1.320	1.209	1.171	1.147	1.108	1.194	8.8
Terphenyl-d14		1.158	0.993	0.952	0.918	0.843	0.939	14.3
Butylbenzylphthalate	0.424	0.450	0.451	0.473	0.467	0.455	0.453	3.4
3,3-Dichlorobenzidine	0.497	0.507	0.495	0.493	0.491	0.475	0.489	2.9
Benzo (a) anthracene	1.360	1.337	1.240	1.252	1.223	1.175	1.246	6.4
Chrysene	1.364	1.315	1.196	1.197	1.182	1.134	1.209	8.2
Bis (2-ethylhexyl) phthalate	0.640	0.648	0.634	0.660	0.659	0.641	0.645	1.8
Di-n-octyl phthalate	1.049	1.080	1.043	1.077	1.076	1.037	1.054	2.2
Benzo (b) fluoranthene	1.187	1.177	1.118	1.148	1.120	1.103	1.132	3.7
Benzo (k) fluoranthene	1.218	1.205	1.111	1.128	1.064	1.054	1.120	6.2
Benzo (a) pyrene	1.113	1.117	1.052	1.079	1.052	1.041	1.068	3.4
Indeno (1,2,3-cd) pyrene	1.523	1.524	1.475	1.511	1.519	1.497	1.506	1.2
Dibenzo (a,h) anthracene	1.119	1.142	1.077	1.108	1.079	1.074	1.095	2.6
Benzo (g,h,i) perylene	1.103	1.084	1.038	1.070	1.045	1.043	1.061	2.4
1,2,4,5-Tetrachlorobenzene	0.767	0.754	0.831	0.742	0.731	0.725	0.752	5.2

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: BNA_G Calibration Date(s): 09/25/2019 09/25/2019
 Calibration Time(s): 10:52 14:41

LAB FILE ID:		RRF010 = BG042922.D			RRF020 = BG042923.D		RRF040 = BG042924.D	
		RRF050 = BG042925.D			RRF060 = BG042926.D		RRF080 = BG042927.D	
COMPOUND	RRF010	RRF020	RRF040	RRF050	RRF060	RRF080	RRF	% RSD
2,3,4,6-Tetrachlorophenol	0.493	0.487	0.467	0.480	0.480	0.486	0.483	1.7

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: BNA_P Calibration Date(s): 10/01/2019 10/01/2019
 Calibration Time(s): 13:38 17:32

LAB FILE ID:	RRF010 = BP000478.D			RRF020 = BP000479.D		RRF040 = BP000480.D		
	RRF050 = BP000481.D			RRF060 = BP000482.D		RRF100 = BP000484.D		
COMPOUND	RRF010	RRF020	RRF040	RRF050	RRF060	RRF100	RRF	% RSD
2-Fluorophenol	1.390	1.334	1.321	1.221	1.208	1.079	1.244	8.8
Benzaldehyde	0.969	0.904	0.819	0.716	0.668		0.781	17.9
Phenol-d6	1.682	1.632	1.607	1.480	1.436	1.292	1.499	9.7
Phenol	1.739	1.694	1.665	1.534	1.453	1.286	1.535	11.2
bis(2-Chloroethyl)ether	1.253	1.249	1.244	1.172	1.134	1.081	1.181	5.8
2-Chlorophenol	1.340	1.316	1.313	1.212	1.173	1.096	1.228	7.8
2-Methylphenol	1.071	1.072	1.077	1.011	0.975	0.929	1.015	5.9
2,2-oxybis(1-Chloropropane)	1.164	1.189	1.179	1.102	1.028	0.945	1.089	8.7
Acetophenone	0.557	0.511	0.483	0.446	0.426	0.398	0.462	12.5
3+4-Methylphenols	1.359	1.369	1.298	1.186	1.102	0.962	1.187	13.6
n-Nitroso-di-n-propylamine	0.814	0.786	0.735	0.669	0.631	0.585	0.691	12.8
Nitrobenzene-d5	0.368	0.341	0.338	0.322	0.315	0.298	0.327	7.1
Hexachloroethane	0.557	0.552	0.572	0.533	0.517	0.490	0.533	5.5
Nitrobenzene	0.347	0.330	0.328	0.310	0.309	0.287	0.316	6.4
Isophorone	0.628	0.604	0.603	0.570	0.558	0.549	0.581	5.2
2-Nitrophenol	0.161	0.161	0.171	0.165	0.169	0.165	0.166	2.4
2,4-Dimethylphenol	0.273	0.267	0.265	0.252	0.249	0.235	0.255	5.5
bis(2-Chloroethoxy)methane	0.434	0.418	0.417	0.392	0.376	0.358	0.395	7.2
2,4-Dichlorophenol	0.308	0.301	0.302	0.286	0.280	0.267	0.288	5.6
Naphthalene	1.063	1.009	0.984	0.923	0.892	0.825	0.934	9.5
4-Chloroaniline	0.449	0.443	0.433	0.404	0.393	0.372	0.410	7.7
Hexachlorobutadiene	0.221	0.213	0.211	0.200	0.199	0.190	0.204	5.5
Caprolactam	0.090	0.099	0.102	0.097	0.096	0.096	0.096	3.7
4-Chloro-3-methylphenol	0.282	0.297	0.295	0.283	0.276	0.267	0.282	4.0
2-Methylnaphthalene	0.631	0.691	0.674	0.634	0.614	0.559	0.627	7.4
Hexachlorocyclopentadiene	0.129	0.170	0.227	0.224	0.237	0.256	0.216	22.8
2,4,6-Trichlorophenol	0.391	0.401	0.417	0.382	0.384	0.374	0.390	3.8
2-Fluorobiphenyl	1.529	1.434	1.378	1.180	1.118	0.972	1.236	17.1
2,4,5-Trichlorophenol	0.405	0.413	0.438	0.396	0.399	0.375	0.402	4.9
1,1-Biphenyl	1.706	1.666	1.663	1.462	1.438	1.280	1.510	11.2
2-Chloronaphthalene	1.301	1.269	1.264	1.132	1.120	1.024	1.167	9.4
2-Nitroaniline	0.280	0.292	0.305	0.280	0.277	0.268	0.283	4.3
Dimethylphthalate	1.493	1.469	1.504	1.333	1.353	1.278	1.390	6.9
Acenaphthylene	1.941	1.921	1.911	1.721	1.698	1.528	1.761	9.4
2,6-Dinitrotoluene	0.303	0.310	0.325	0.297	0.299	0.293	0.303	3.7
3-Nitroaniline	0.349	0.364	0.378	0.339	0.341	0.327	0.347	5.3

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: BNA_P Calibration Date(s): 10/01/2019 10/01/2019
 Calibration Time(s): 13:38 17:32

LAB FILE ID: RRF010 = BP000478.D RRF020 = BP000479.D RRF040 = BP000480.D								
RRF050 = BP000481.D RRF060 = BP000482.D RRF100 = BP000484.D								
COMPOUND	RRF010	RRF020	RRF040	RRF050	RRF060	RRF100	RRF	% RSD
Acenaphthene	1.251	1.145	1.143	1.075	1.002	0.911	1.068	11.3
2,4-Dinitrophenol	0.076	0.084	0.113	0.110	0.122		0.101	19.5
4-Nitrophenol	0.199	0.217	0.238	0.224	0.227	0.224	0.222	5.4
Dibenzofuran	1.813	1.743	1.749	1.548	1.518	1.381	1.597	10.7
2,4-Dinitrotoluene	0.393	0.410	0.436	0.396	0.407	0.383	0.402	4.4
Diethylphthalate	1.345	1.436	1.459	1.293	1.292	1.186	1.319	7.7
4-Chlorophenyl-phenylether	0.522	0.707	0.709	0.619	0.616	0.544	0.612	12.1
Fluorene	0.930	1.352	1.327	1.163	1.142	1.001	1.138	14.0
4-Nitroaniline	0.227	0.374	0.382	0.340	0.349	0.334	0.334	15.3
4,6-Dinitro-2-methylphenol	0.070	0.077	0.091	0.089	0.094	0.099	0.089	12.9
n-Nitrosodiphenylamine	0.633	0.643	0.616	0.573	0.548	0.523	0.583	8.2
2,4,6-Tribromophenol	0.157	0.235	0.240	0.220	0.222	0.210	0.213	12.9
4-Bromophenyl-phenylether	0.261	0.230	0.232	0.217	0.212	0.209	0.225	8.0
Hexachlorobenzene	0.314	0.261	0.264	0.239	0.242	0.230	0.256	11.1
Atrazine	0.233	0.217	0.208	0.185	0.175	0.152	0.191	15.1
Pentachlorophenol	0.085	0.092	0.108	0.105	0.107	0.113	0.103	10.1
Phenanthrene	1.128	1.112	1.080	0.992	0.959	0.864	1.004	10.4
Anthracene	1.118	1.107	1.061	0.982	0.946	0.858	0.996	10.3
Carbazole	1.021	1.038	0.989	0.901	0.872	0.812	0.923	10.0
Di-n-butylphthalate	1.244	1.223	1.223	1.109	1.067	0.985	1.125	9.4
Fluoranthene	1.305	1.250	1.211	1.114	1.071	0.959	1.128	11.7
Pyrene	1.359	1.455	1.462	1.368	1.350	1.332	1.379	4.0
Terphenyl-d14	1.144	1.110	1.056	0.941	0.908	0.863	0.988	11.5
Butylbenzylphthalate	0.542	0.598	0.636	0.605	0.595	0.609	0.601	4.9
3,3-Dichlorobenzidine	0.510	0.507	0.543	0.488	0.472	0.420	0.485	8.4
Benzo(a)anthracene	1.297	1.327	1.299	1.217	1.169	1.110	1.220	7.3
Chrysene	1.226	1.274	1.271	1.196	1.148	1.114	1.198	5.2
Bis(2-ethylhexyl)phthalate	0.788	0.813	0.813	0.752	0.722	0.679	0.756	6.7
Di-n-octyl phthalate	1.261	1.391	1.470	1.394	1.360	1.330	1.370	4.7
Benzo(b)fluoranthene	1.120	1.145	1.226	1.122	1.085	1.160	1.135	4.3
Benzo(k)fluoranthene	1.200	1.170	1.139	1.084	1.053	0.907	1.080	9.4
Benzo(a)pyrene	1.076	1.065	1.153	1.057	1.037	1.014	1.058	4.7
Indeno(1,2,3-cd)pyrene	1.504	1.447	1.541	1.483	1.471	1.510	1.496	2.1
Dibenzo(a,h)anthracene	1.078	1.061	1.086	1.025	0.996	0.974	1.026	4.9
Benzo(g,h,i)perylene	1.071	1.038	1.082	1.040	1.020	1.040	1.042	2.6
1,2,4,5-Tetrachlorobenzene	0.693	0.682	0.687	0.618	0.617	0.559	0.633	8.7

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: BNA_P Calibration Date(s): 10/01/2019 10/01/2019
 Calibration Time(s): 13:38 17:32

LAB FILE ID:		RRF010 = BP000478.D			RRF020 = BP000479.D		RRF040 = BP000480.D	
		RRF050 = BP000481.D			RRF060 = BP000482.D		RRF100 = BP000484.D	
COMPOUND	RRF010	RRF020	RRF040	RRF050	RRF060	RRF100	RRF	% RSD
2,3,4,6-Tetrachlorophenol	0.332	0.340	0.372	0.336	0.344	0.324	0.340	4.5

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: BNA_G Calibration Date/Time: 10/02/2019 13:54
 Lab File ID: BG042983.D Init. Calib. Date(s): 09/25/2019 09/25/2019
 EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:52 14:41
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.121	1.120		-0.1	
Benzaldehyde	0.986	0.947		-4.0	
Phenol-d6	1.614	1.645		1.9	
Phenol	1.481	1.496		1.0	20.0
bis(2-Chloroethyl) ether	1.146	1.129		-1.5	
2-Chlorophenol	1.169	1.192		2.0	
2-Methylphenol	1.036	1.068		3.1	
2,2-oxybis(1-Chloropropane)	2.200	1.919		-12.8	
Acetophenone	0.516	0.496		-3.9	
3+4-Methylphenols	1.420	1.454		2.4	
n-Nitroso-di-n-propylamine	1.060	1.029	0.050	-2.9	
Nitrobenzene-d5	0.411	0.403		-1.9	
Hexachloroethane	0.560	0.543		-3.0	
Nitrobenzene	0.392	0.375		-4.3	
Isophorone	0.723	0.699		-3.3	
2-Nitrophenol	0.167	0.175		4.8	20.0
2,4-Dimethylphenol	0.257	0.250		-2.7	
bis(2-Chloroethoxy) methane	0.410	0.392		-4.4	
2,4-Dichlorophenol	0.319	0.332		4.1	20.0
Naphthalene	0.985	0.957		-2.8	
4-Chloroaniline	0.427	0.432		1.2	
Hexachlorobutadiene	0.309	0.293		-5.2	20.0
Caprolactam	0.113	0.117		3.5	
4-Chloro-3-methylphenol	0.347	0.359		3.5	20.0
2-Methylnaphthalene	0.751	0.738		-1.7	
Hexachlorocyclopentadiene	0.479	0.462	0.050	-3.5	
2,4,6-Trichlorophenol	0.440	0.438		-0.5	20.0
2-Fluorobiphenyl	1.380	1.333		-3.4	
2,4,5-Trichlorophenol	0.453	0.457		0.9	
1,1-Biphenyl	1.517	1.431		-5.7	
2-Chloronaphthalene	1.137	1.106		-2.7	
2-Nitroaniline	0.378	0.379		0.3	
Dimethylphthalate	1.499	1.425		-4.9	
Acenaphthylene	1.740	1.718		-1.3	
2,6-Dinitrotoluene	0.319	0.319		0.0	
3-Nitroaniline	0.330	0.332		0.6	
Acenaphthene	1.165	1.165		0.0	20.0
2,4-Dinitrophenol	0.198	0.188	0.050	-5.1	
4-Nitrophenol	0.251	0.252	0.050	0.4	
Dibenzofuran	1.723	1.687		-2.1	
2,4-Dinitrotoluene	0.467	0.465		-0.4	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: BNA_G Calibration Date/Time: 10/02/2019 13:54
 Lab File ID: BG042983.D Init. Calib. Date(s): 09/25/2019 09/25/2019
 EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:52 14:41
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.525	1.444		-5.3	
4-Chlorophenyl-phenylether	0.882	0.840		-4.8	
Fluorene	1.471	1.428		-2.9	
4-Nitroaniline	0.360	0.367		1.9	
4,6-Dinitro-2-methylphenol	0.113	0.104		-8.0	
n-Nitrosodiphenylamine	0.528	0.530		0.4	20.0
2,4,6-Tribromophenol	0.344	0.363		5.5	
4-Bromophenyl-phenylether	0.251	0.253		0.8	
Hexachlorobenzene	0.279	0.288		3.2	
Atrazine	0.222	0.215		-3.2	
Pentachlorophenol	0.161	0.162		0.6	20.0
Phenanthrene	0.976	0.962		-1.4	
Anthracene	0.975	0.964		-1.1	
Carbazole	0.904	0.884		-2.2	
Di-n-butylphthalate	1.078	1.056		-2.0	
Fluoranthene	1.291	1.246		-3.5	20.0
Pyrene	1.194	1.179		-1.3	
Terphenyl-d14	0.939	0.973		3.6	
Butylbenzylphthalate	0.453	0.468		3.3	
3,3-Dichlorobenzidine	0.489	0.494		1.0	
Benzo(a)anthracene	1.246	1.254		0.6	
Chrysene	1.209	1.195		-1.2	
Bis(2-ethylhexyl)phthalate	0.645	0.660		2.3	
Di-n-octyl phthalate	1.054	1.095		3.9	20.0
Benzo(b)fluoranthene	1.132	1.137		0.4	
Benzo(k)fluoranthene	1.120	1.078		-3.8	
Benzo(a)pyrene	1.068	1.055		-1.2	20.0
Indeno(1,2,3-cd)pyrene	1.506	1.553		3.1	
Dibenzo(a,h)anthracene	1.095	1.097		0.2	
Benzo(g,h,i)perylene	1.061	1.060		-0.1	
1,2,4,5-Tetrachlorobenzene	0.752	0.711		-5.5	
2,3,4,6-Tetrachlorophenol	0.483	0.487		0.8	

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: BNA_G Calibration Date/Time: 10/04/2019 16:22
 Lab File ID: BG043030.D Init. Calib. Date(s): 09/25/2019 09/25/2019
 EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:52 14:41
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.121	1.075		-4.1	
Benzaldehyde	0.986	0.864		-12.4	
Phenol-d6	1.614	1.534		-5.0	
Phenol	1.481	1.428		-3.6	20.0
bis(2-Chloroethyl) ether	1.146	1.068		-6.8	
2-Chlorophenol	1.169	1.160		-0.8	
2-Methylphenol	1.036	0.981		-5.3	
2,2-oxybis(1-Chloropropane)	2.200	1.848		-16.0	
Acetophenone	0.516	0.517		0.2	
3+4-Methylphenols	1.420	1.369		-3.6	
n-Nitroso-di-n-propylamine	1.060	0.986	0.050	-7.0	
Nitrobenzene-d5	0.411	0.394		-4.1	
Hexachloroethane	0.560	0.524		-6.4	
Nitrobenzene	0.392	0.380		-3.1	
Isophorone	0.723	0.684		-5.4	
2-Nitrophenol	0.167	0.175		4.8	20.0
2,4-Dimethylphenol	0.257	0.247		-3.9	
bis(2-Chloroethoxy) methane	0.410	0.391		-4.6	
2,4-Dichlorophenol	0.319	0.324		1.6	20.0
Naphthalene	0.985	0.960		-2.5	
4-Chloroaniline	0.427	0.424		-0.7	
Hexachlorobutadiene	0.309	0.304		-1.6	20.0
Caprolactam	0.113	0.109		-3.5	
4-Chloro-3-methylphenol	0.347	0.337		-2.9	20.0
2-Methylnaphthalene	0.751	0.733		-2.4	
Hexachlorocyclopentadiene	0.479	0.558	0.050	16.5	
2,4,6-Trichlorophenol	0.440	0.448		1.8	20.0
2-Fluorobiphenyl	1.380	1.387		0.5	
2,4,5-Trichlorophenol	0.453	0.457		0.9	
1,1-Biphenyl	1.517	1.501		-1.1	
2-Chloronaphthalene	1.137	1.144		0.6	
2-Nitroaniline	0.378	0.361		-4.5	
Dimethylphthalate	1.499	1.464		-2.3	
Acenaphthylene	1.740	1.715		-1.4	
2,6-Dinitrotoluene	0.319	0.319		0.0	
3-Nitroaniline	0.330	0.329		-0.3	
Acenaphthene	1.165	1.071		-8.1	20.0
2,4-Dinitrophenol	0.198	0.191	0.050	-3.5	
4-Nitrophenol	0.251	0.248	0.050	-1.2	
Dibenzofuran	1.723	1.667		-3.3	
2,4-Dinitrotoluene	0.467	0.454		-2.8	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: BNA_G Calibration Date/Time: 10/04/2019 16:22
 Lab File ID: BG043030.D Init. Calib. Date(s): 09/25/2019 09/25/2019
 EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:52 14:41
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.525	1.463		-4.1	
4-Chlorophenyl-phenylether	0.882	0.852		-3.4	
Fluorene	1.471	1.418		-3.6	
4-Nitroaniline	0.360	0.342		-5.0	
4,6-Dinitro-2-methylphenol	0.113	0.111		-1.8	
n-Nitrosodiphenylamine	0.528	0.539		2.1	20.0
2,4,6-Tribromophenol	0.344	0.358		4.1	
4-Bromophenyl-phenylether	0.251	0.256		2.0	
Hexachlorobenzene	0.279	0.287		2.9	
Atrazine	0.222	0.211		-5.0	
Pentachlorophenol	0.161	0.166		3.1	20.0
Phenanthrene	0.976	0.955		-2.2	
Anthracene	0.975	0.946		-3.0	
Carbazole	0.904	0.872		-3.5	
Di-n-butylphthalate	1.078	1.049		-2.7	
Fluoranthene	1.291	1.244		-3.7	20.0
Pyrene	1.194	1.153		-3.4	
Terphenyl-d14	0.939	0.965		2.8	
Butylbenzylphthalate	0.453	0.458		1.1	
3,3-Dichlorobenzidine	0.489	0.504		3.1	
Benzo(a)anthracene	1.246	1.222		-1.9	
Chrysene	1.209	1.182		-2.2	
Bis(2-ethylhexyl)phthalate	0.645	0.645		0.0	
Di-n-octyl phthalate	1.054	1.083		2.8	20.0
Benzo(b)fluoranthene	1.132	1.088		-3.9	
Benzo(k)fluoranthene	1.120	1.088		-2.9	
Benzo(a)pyrene	1.068	1.049		-1.8	20.0
Indeno(1,2,3-cd)pyrene	1.506	1.551		3.0	
Dibenzo(a,h)anthracene	1.095	1.092		-0.3	
Benzo(g,h,i)perylene	1.061	1.049		-1.1	
1,2,4,5-Tetrachlorobenzene	0.752	0.757		0.7	
2,3,4,6-Tetrachlorophenol	0.483	0.469		-2.9	

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: BNA_G Calibration Date/Time: 10/07/2019 13:24
 Lab File ID: BG043065.D Init. Calib. Date(s): 09/25/2019 09/25/2019
 EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:52 14:41
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.121	1.203		7.3	
Benzaldehyde	0.986	0.891		-9.6	
Phenol-d6	1.614	1.756		8.8	
Phenol	1.481	1.603		8.2	20.0
bis(2-Chloroethyl) ether	1.146	1.174		2.4	
2-Chlorophenol	1.169	1.272		8.8	
2-Methylphenol	1.036	1.148		10.8	
2,2-oxybis(1-Chloropropane)	2.200	1.809		-17.8	
Acetophenone	0.516	0.537		4.1	
3+4-Methylphenols	1.420	1.599		12.6	
n-Nitroso-di-n-propylamine	1.060	1.131	0.050	6.7	
Nitrobenzene-d5	0.411	0.418		1.7	
Hexachloroethane	0.560	0.565		0.9	
Nitrobenzene	0.392	0.399		1.8	
Isophorone	0.723	0.778		7.6	
2-Nitrophenol	0.167	0.192		15.0	20.0
2,4-Dimethylphenol	0.257	0.273		6.2	
bis(2-Chloroethoxy) methane	0.410	0.425		3.7	
2,4-Dichlorophenol	0.319	0.352		10.3	20.0
Naphthalene	0.985	1.044		6.0	
4-Chloroaniline	0.427	0.492		15.2	
Hexachlorobutadiene	0.309	0.317		2.6	20.0
Caprolactam	0.113	0.137		21.2	
4-Chloro-3-methylphenol	0.347	0.396		14.1	20.0
2-Methylnaphthalene	0.751	0.827		10.1	
Hexachlorocyclopentadiene	0.479	0.438	0.050	-8.6	
2,4,6-Trichlorophenol	0.440	0.465		5.7	20.0
2-Fluorobiphenyl	1.380	1.446		4.8	
2,4,5-Trichlorophenol	0.453	0.484		6.8	
1,1-Biphenyl	1.517	1.541		1.6	
2-Chloronaphthalene	1.137	1.186		4.3	
2-Nitroaniline	0.378	0.387		2.4	
Dimethylphthalate	1.499	1.638		9.3	
Acenaphthylene	1.740	1.836		5.5	
2,6-Dinitrotoluene	0.319	0.346		8.5	
3-Nitroaniline	0.330	0.364		10.3	
Acenaphthene	1.165	1.160		-0.4	20.0
2,4-Dinitrophenol	0.198	0.214	0.050	8.1	
4-Nitrophenol	0.251	0.275	0.050	9.6	
Dibenzofuran	1.723	1.838		6.7	
2,4-Dinitrotoluene	0.467	0.519		11.1	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: BNA_G Calibration Date/Time: 10/07/2019 13:24
 Lab File ID: BG043065.D Init. Calib. Date(s): 09/25/2019 09/25/2019
 EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:52 14:41
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.525	1.631		7.0	
4-Chlorophenyl-phenylether	0.882	0.920		4.3	
Fluorene	1.471	1.573		6.9	
4-Nitroaniline	0.360	0.399		10.8	
4,6-Dinitro-2-methylphenol	0.113	0.120		6.2	
n-Nitrosodiphenylamine	0.528	0.565		7.0	20.0
2,4,6-Tribromophenol	0.344	0.402		16.9	
4-Bromophenyl-phenylether	0.251	0.276		10.0	
Hexachlorobenzene	0.279	0.312		11.8	
Atrazine	0.222	0.218		-1.8	
Pentachlorophenol	0.161	0.169		5.0	20.0
Phenanthrene	0.976	1.041		6.7	
Anthracene	0.975	1.048		7.5	
Carbazole	0.904	0.955		5.6	
Di-n-butylphthalate	1.078	1.136		5.4	
Fluoranthene	1.291	1.337		3.5	20.0
Pyrene	1.194	1.300		8.9	
Terphenyl-d14	0.939	1.092		16.3	
Butylbenzylphthalate	0.453	0.497		9.7	
3,3-Dichlorobenzidine	0.489	0.546		11.7	
Benzo(a)anthracene	1.246	1.346		8.0	
Chrysene	1.209	1.291		6.8	
Bis(2-ethylhexyl)phthalate	0.645	0.698		8.2	
Di-n-octyl phthalate	1.054	1.167		10.7	20.0
Benzo(b)fluoranthene	1.132	1.228		8.5	
Benzo(k)fluoranthene	1.120	1.147		2.4	
Benzo(a)pyrene	1.068	1.134		6.2	20.0
Indeno(1,2,3-cd)pyrene	1.506	1.679		11.5	
Dibenzo(a,h)anthracene	1.095	1.184		8.1	
Benzo(g,h,i)perylene	1.061	1.143		7.7	
1,2,4,5-Tetrachlorobenzene	0.752	0.761		1.2	
2,3,4,6-Tetrachlorophenol	0.483	0.511		5.8	

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: BNA_G Calibration Date/Time: 10/08/2019 11:22
 Lab File ID: BG043083.D Init. Calib. Date(s): 09/25/2019 09/25/2019
 EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:52 14:41
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.121	1.190		6.2	
Benzaldehyde	0.986	0.869		-11.9	
Phenol-d6	1.614	1.742		7.9	
Phenol	1.481	1.596		7.8	20.0
bis(2-Chloroethyl) ether	1.146	1.180		3.0	
2-Chlorophenol	1.169	1.292		10.5	
2-Methylphenol	1.036	1.145		10.5	
2,2-oxybis(1-Chloropropane)	2.200	1.854		-15.7	
Acetophenone	0.516	0.547		6.0	
3+4-Methylphenols	1.420	1.580		11.3	
n-Nitroso-di-n-propylamine	1.060	1.108	0.050	4.5	
Nitrobenzene-d5	0.411	0.424		3.2	
Hexachloroethane	0.560	0.569		1.6	
Nitrobenzene	0.392	0.403		2.8	
Isophorone	0.723	0.769		6.4	
2-Nitrophenol	0.167	0.192		15.0	20.0
2,4-Dimethylphenol	0.257	0.276		7.4	
bis(2-Chloroethoxy) methane	0.410	0.427		4.1	
2,4-Dichlorophenol	0.319	0.359		12.5	20.0
Naphthalene	0.985	1.059		7.5	
4-Chloroaniline	0.427	0.486		13.8	
Hexachlorobutadiene	0.309	0.313		1.3	20.0
Caprolactam	0.113	0.130		15.0	
4-Chloro-3-methylphenol	0.347	0.393		13.3	20.0
2-Methylnaphthalene	0.751	0.830		10.5	
Hexachlorocyclopentadiene	0.479	0.440	0.050	-8.1	
2,4,6-Trichlorophenol	0.440	0.462		5.0	20.0
2-Fluorobiphenyl	1.380	1.483		7.5	
2,4,5-Trichlorophenol	0.453	0.500		10.4	
1,1-Biphenyl	1.517	1.583		4.4	
2-Chloronaphthalene	1.137	1.214		6.8	
2-Nitroaniline	0.378	0.410		8.5	
Dimethylphthalate	1.499	1.646		9.7	
Acenaphthylene	1.740	1.889		8.6	
2,6-Dinitrotoluene	0.319	0.366		14.7	
3-Nitroaniline	0.330	0.365		10.6	
Acenaphthene	1.165	1.166		0.1	20.0
2,4-Dinitrophenol	0.198	0.265	0.050	33.8	
4-Nitrophenol	0.251	0.259	0.050	3.2	
Dibenzofuran	1.723	1.892		9.8	
2,4-Dinitrotoluene	0.467	0.527		12.8	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: BNA_G Calibration Date/Time: 10/08/2019 11:22
 Lab File ID: BG043083.D Init. Calib. Date(s): 09/25/2019 09/25/2019
 EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:52 14:41
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.525	1.665		9.2	
4-Chlorophenyl-phenylether	0.882	0.960		8.8	
Fluorene	1.471	1.598		8.6	
4-Nitroaniline	0.360	0.404		12.2	
4,6-Dinitro-2-methylphenol	0.113	0.125		10.6	
n-Nitrosodiphenylamine	0.528	0.573		8.5	20.0
2,4,6-Tribromophenol	0.344	0.410		19.2	
4-Bromophenyl-phenylether	0.251	0.280		11.6	
Hexachlorobenzene	0.279	0.317		13.6	
Atrazine	0.222	0.212		-4.5	
Pentachlorophenol	0.161	0.174		8.1	20.0
Phenanthrene	0.976	1.063		8.9	
Anthracene	0.975	1.066		9.3	
Carbazole	0.904	0.980		8.4	
Di-n-butylphthalate	1.078	1.170		8.5	
Fluoranthene	1.291	1.386		7.4	20.0
Pyrene	1.194	1.311		9.8	
Terphenyl-d14	0.939	1.092		16.3	
Butylbenzylphthalate	0.453	0.509		12.4	
3,3-Dichlorobenzidine	0.489	0.544		11.2	
Benzo(a)anthracene	1.246	1.349		8.3	
Chrysene	1.209	1.304		7.9	
Bis(2-ethylhexyl)phthalate	0.645	0.706		9.5	
Di-n-octyl phthalate	1.054	1.185		12.4	20.0
Benzo(b)fluoranthene	1.132	1.251		10.5	
Benzo(k)fluoranthene	1.120	1.193		6.5	
Benzo(a)pyrene	1.068	1.161		8.7	20.0
Indeno(1,2,3-cd)pyrene	1.506	1.701		12.9	
Dibenzo(a,h)anthracene	1.095	1.208		10.3	
Benzo(g,h,i)perylene	1.061	1.177		10.9	
1,2,4,5-Tetrachlorobenzene	0.752	0.761		1.2	
2,3,4,6-Tetrachlorophenol	0.483	0.515		6.6	

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: BNA_P Calibration Date/Time: 10/04/2019 15:36
 Lab File ID: BP000508.D Init. Calib. Date(s): 10/01/2019 10/01/2019
 EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:38 17:32
 GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.244	1.332		7.1	
Benzaldehyde	0.781	0.823		5.4	
Phenol-d6	1.499	1.637		9.2	
Phenol	1.535	1.681		9.5	20.0
bis(2-Chloroethyl) ether	1.181	1.253		6.1	
2-Chlorophenol	1.228	1.354		10.3	
2-Methylphenol	1.015	1.100		8.4	
2,2-oxybis(1-Chloropropane)	1.089	1.157		6.2	
Acetophenone	0.462	0.493		6.7	
3+4-Methylphenols	1.187	1.334		12.4	
n-Nitroso-di-n-propylamine	0.691	0.744	0.050	7.7	
Nitrobenzene-d5	0.327	0.345		5.5	
Hexachloroethane	0.533	0.578		8.4	
Nitrobenzene	0.316	0.330		4.4	
Isophorone	0.581	0.617		6.2	
2-Nitrophenol	0.166	0.181		9.0	20.0
2,4-Dimethylphenol	0.255	0.276		8.2	
bis(2-Chloroethoxy) methane	0.395	0.423		7.1	
2,4-Dichlorophenol	0.288	0.318		10.4	20.0
Naphthalene	0.934	1.028		10.1	
4-Chloroaniline	0.410	0.452		10.2	
Hexachlorobutadiene	0.204	0.227		11.3	20.0
Caprolactam	0.096	0.108		12.5	
4-Chloro-3-methylphenol	0.282	0.315		11.7	20.0
2-Methylnaphthalene	0.627	0.715		14.0	
Hexachlorocyclopentadiene	0.216	0.206	0.050	-4.6	
2,4,6-Trichlorophenol	0.390	0.424		8.7	20.0
2-Fluorobiphenyl	1.236	1.351		9.3	
2,4,5-Trichlorophenol	0.402	0.444		10.4	
1,1-Biphenyl	1.510	1.641		8.7	
2-Chloronaphthalene	1.167	1.266		8.5	
2-Nitroaniline	0.283	0.303		7.1	
Dimethylphthalate	1.390	1.500		7.9	
Acenaphthylene	1.761	1.921		9.1	
2,6-Dinitrotoluene	0.303	0.331		9.2	
3-Nitroaniline	0.347	0.371		6.9	
Acenaphthene	1.068	1.131		5.9	20.0
2,4-Dinitrophenol	0.101	0.124	0.050	22.8	
4-Nitrophenol	0.222	0.242	0.050	9.0	
Dibenzofuran	1.597	1.753		9.8	
2,4-Dinitrotoluene	0.402	0.440		9.5	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: BNA_P Calibration Date/Time: 10/04/2019 15:36
 Lab File ID: BP000508.D Init. Calib. Date(s): 10/01/2019 10/01/2019
 EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:38 17:32
 GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.319	1.463		10.9	
4-Chlorophenyl-phenylether	0.612	0.717		17.2	
Fluorene	1.138	1.333		17.1	
4-Nitroaniline	0.334	0.387		15.9	
4,6-Dinitro-2-methylphenol	0.089	0.082		-7.9	
n-Nitrosodiphenylamine	0.583	0.636		9.1	20.0
2,4,6-Tribromophenol	0.213	0.255		19.7	
4-Bromophenyl-phenylether	0.225	0.244		8.4	
Hexachlorobenzene	0.256	0.274		7.0	
Atrazine	0.191	0.205		7.3	
Pentachlorophenol	0.103	0.117		13.6	20.0
Phenanthrene	1.004	1.109		10.5	
Anthracene	0.996	1.100		10.4	
Carbazole	0.923	1.023		10.8	
Di-n-butylphthalate	1.125	1.244		10.6	
Fluoranthene	1.128	1.256		11.3	20.0
Pyrene	1.379	1.504		9.1	
Terphenyl-d14	0.988	1.096		10.9	
Butylbenzylphthalate	0.601	0.649		8.0	
3,3-Dichlorobenzidine	0.485	0.572		17.9	
Benzo(a)anthracene	1.220	1.358		11.3	
Chrysene	1.198	1.340		11.9	
Bis(2-ethylhexyl)phthalate	0.756	0.838		10.8	
Di-n-octyl phthalate	1.370	1.526		11.4	20.0
Benzo(b)fluoranthene	1.135	1.224		7.8	
Benzo(k)fluoranthene	1.080	1.183		9.5	
Benzo(a)pyrene	1.058	1.143		8.0	20.0
Indeno(1,2,3-cd)pyrene	1.496	1.665		11.3	
Dibenzo(a,h)anthracene	1.026	1.130		10.1	
Benzo(g,h,i)perylene	1.042	1.138		9.2	
1,2,4,5-Tetrachlorobenzene	0.633	0.689		8.8	
2,3,4,6-Tetrachlorophenol	0.340	0.377		10.9	

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: BNA_P Calibration Date/Time: 10/07/2019 10:59
 Lab File ID: BP000536.D Init. Calib. Date(s): 10/01/2019 10/01/2019
 EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:38 17:32
 GC Column: RTX-5 ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.244	1.344		8.0	
Benzaldehyde	0.781	0.820		5.0	
Phenol-d6	1.499	1.662		10.9	
Phenol	1.535	1.726		12.4	20.0
bis(2-Chloroethyl) ether	1.181	1.262		6.9	
2-Chlorophenol	1.228	1.329		8.2	
2-Methylphenol	1.015	1.073		5.7	
2,2-oxybis(1-Chloropropane)	1.089	1.240		13.9	
Acetophenone	0.462	0.508		10.0	
3+4-Methylphenols	1.187	1.355		14.2	
n-Nitroso-di-n-propylamine	0.691	0.774	0.050	12.0	
Nitrobenzene-d5	0.327	0.347		6.1	
Hexachloroethane	0.533	0.569		6.8	
Nitrobenzene	0.316	0.337		6.6	
Isophorone	0.581	0.624		7.4	
2-Nitrophenol	0.166	0.171		3.0	20.0
2,4-Dimethylphenol	0.255	0.277		8.6	
bis(2-Chloroethoxy) methane	0.395	0.431		9.1	
2,4-Dichlorophenol	0.288	0.312		8.3	20.0
Naphthalene	0.934	1.033		10.6	
4-Chloroaniline	0.410	0.455		11.0	
Hexachlorobutadiene	0.204	0.219		7.4	20.0
Caprolactam	0.096	0.105		9.4	
4-Chloro-3-methylphenol	0.282	0.306		8.5	20.0
2-Methylnaphthalene	0.627	0.709		13.1	
Hexachlorocyclopentadiene	0.216	0.190	0.050	-12.0	
2,4,6-Trichlorophenol	0.390	0.407		4.4	20.0
2-Fluorobiphenyl	1.236	1.340		8.4	
2,4,5-Trichlorophenol	0.402	0.421		4.7	
1,1-Biphenyl	1.510	1.601		6.0	
2-Chloronaphthalene	1.167	1.232		5.6	
2-Nitroaniline	0.283	0.300		6.0	
Dimethylphthalate	1.390	1.470		5.8	
Acenaphthylene	1.761	1.891		7.4	
2,6-Dinitrotoluene	0.303	0.313		3.3	
3-Nitroaniline	0.347	0.364		4.9	
Acenaphthene	1.068	1.122		5.1	20.0
2,4-Dinitrophenol	0.101	0.097	0.050	-4.0	
4-Nitrophenol	0.222	0.232	0.050	4.5	
Dibenzofuran	1.597	1.732		8.5	
2,4-Dinitrotoluene	0.402	0.422		5.0	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03
 Lab Code: CHEM Case No.: K5154 SAS No.: K5154 SDG No.: K5154
 Instrument ID: BNA_P Calibration Date/Time: 10/07/2019 10:59
 Lab File ID: BP000536.D Init. Calib. Date(s): 10/01/2019 10/01/2019
 EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:38 17:32
 GC Column: RTX-5 ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.319	1.430		8.4	
4-Chlorophenyl-phenylether	0.612	0.711		16.2	
Fluorene	1.138	1.352		18.8	
4-Nitroaniline	0.334	0.383		14.7	
4,6-Dinitro-2-methylphenol	0.089	0.083		-6.7	
n-Nitrosodiphenylamine	0.583	0.643		10.3	20.0
2,4,6-Tribromophenol	0.213	0.242		13.6	
4-Bromophenyl-phenylether	0.225	0.242		7.6	
Hexachlorobenzene	0.256	0.262		2.3	
Atrazine	0.191	0.203		6.3	
Pentachlorophenol	0.103	0.113		9.7	20.0
Phenanthrene	1.004	1.109		10.5	
Anthracene	0.996	1.114		11.8	
Carbazole	0.923	1.036		12.2	
Di-n-butylphthalate	1.125	1.262		12.2	
Fluoranthene	1.128	1.244		10.3	20.0
Pyrene	1.379	1.460		5.9	
Terphenyl-d14	0.988	1.035		4.8	
Butylbenzylphthalate	0.601	0.644		7.2	
3,3-Dichlorobenzidine	0.485	0.539		11.1	
Benzo(a)anthracene	1.220	1.328		8.9	
Chrysene	1.198	1.291		7.7	
Bis(2-ethylhexyl)phthalate	0.756	0.849		12.3	
Di-n-octyl phthalate	1.370	1.517		10.7	20.0
Benzo(b)fluoranthene	1.135	1.255		10.6	
Benzo(k)fluoranthene	1.080	1.123		4.0	
Benzo(a)pyrene	1.058	1.124		6.2	20.0
Indeno(1,2,3-cd)pyrene	1.496	1.507		0.7	
Dibenzo(a,h)anthracene	1.026	1.073		4.6	
Benzo(g,h,i)perylene	1.042	1.050		0.8	
1,2,4,5-Tetrachlorobenzene	0.633	0.664		4.9	
2,3,4,6-Tetrachlorophenol	0.340	0.366		7.6	

All other compounds must meet a minimum RRF of 0.010.



284 Sheffield Street, Mountainside, New Jersey - 07092

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LAB CHRONICLE

OrderID: K5154	OrderDate: 10/1/2019 2:37:56 PM
Client: TRC Companies, Inc.	Project: NYCDPR Bush Terminal LandFill Piers 1-4
Contact: Jim Peronto	Location: M12

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
K5154-02	FB-10012019	Water	Mercury	7470A	10/01/19	10/02/19	10/03/19	10/01/19
			Metals ICP-TAL	6020B		10/03/19	10/10/19	
K5154-03	MW-106S	Water	Mercury	7470A	10/01/19	10/02/19	10/03/19	10/01/19
			Metals ICP-TAL	6020B		10/03/19	10/10/19	
K5154-04	MW-106I	Water	Mercury	7470A	10/01/19	10/02/19	10/03/19	10/01/19
			Metals ICP-TAL	6020B		10/03/19	10/10/19	
			Metals ICP-TAL	6020B		10/03/19	10/16/19	
			Metals ICP-TAL	6020B		10/03/19	10/16/19	
K5154-05	MW-106D	Water	Mercury	7470A	10/01/19	10/02/19	10/03/19	10/01/19
			Metals ICP-TAL	6020B		10/03/19	10/10/19	
K5154-06	MW-107	Water	Mercury	7470A	10/01/19	10/02/19	10/03/19	10/01/19
			Metals ICP-TAL	6020B		10/03/19	10/10/19	
K5154-10	MW-103S	Water	Mercury	7470A	10/02/19	10/02/19	10/03/19	10/02/19
			Metals ICP-TAL	6020B		10/03/19	10/10/19	
			Metals ICP-TAL	6020B		10/03/19	10/16/19	
K5154-11	MW-103I	Water	Mercury	7470A	10/02/19	10/02/19	10/03/19	10/02/19
			Metals ICP-TAL	6020B		10/03/19	10/10/19	
K5154-14	MW-103D	Water	Mercury	7470A	10/02/19	10/02/19	10/03/19	10/02/19
			Metals ICP-TAL	6020B		10/03/19	10/10/19	

LAB CHRONICLE

K5154-15	MW-105S	Water			10/02/19			10/02/19
			Mercury	7470A		10/02/19	10/03/19	
			Metals ICP-TAL	6020B		10/03/19	10/10/19	
K5154-16	MW-105I	Water			10/02/19			10/02/19
			Mercury	7470A		10/02/19	10/03/19	
			Metals ICP-TAL	6020B		10/03/19	10/10/19	
K5154-17	MW-105D	Water			10/02/19			10/02/19
			Mercury	7470A		10/02/19	10/03/19	
			Metals ICP-TAL	6020B		10/03/19	10/10/19	
K5154-18	MW-104I	Water			10/02/19			10/02/19
			Mercury	7470A		10/02/19	10/03/19	
			Metals ICP-TAL	6020B		10/03/19	10/10/19	
K5154-19	MW-104D	Water			10/02/19			10/02/19
			Mercury	7470A		10/02/19	10/03/19	
			Metals ICP-TAL	6020B		10/03/19	10/10/19	
K5154-21	MW-102S	Water			10/03/19			10/03/19
			Mercury	7470A		10/07/19	10/07/19	
			Metals ICP-TAL	6020B		10/11/19	10/14/19	
K5154-22	MW-102I	Water			10/03/19			10/03/19
			Mercury	7470A		10/07/19	10/07/19	
			Metals ICP-TAL	6020B		10/11/19	10/14/19	
K5154-23	MW-102D	Water			10/03/19			10/03/19
			Mercury	7470A		10/07/19	10/07/19	
			Metals ICP-TAL	6020B		10/11/19	10/14/19	
K5154-24	MW-101S	Water			10/03/19			10/03/19
			Mercury	7470A		10/07/19	10/07/19	
			Metals ICP-TAL	6020B		10/11/19	10/14/19	
K5154-25	MW-101I	Water			10/03/19			10/03/19
			Mercury	7470A		10/07/19	10/07/19	
			Metals ICP-TAL	6020B		10/11/19	10/14/19	
K5154-26	MW-101D	Water			10/03/19			10/03/19
			Mercury	7470A		10/07/19	10/07/19	



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LAB CHRONICLE

Metals ICP-TAL	6020B	10/11/19	10/14/19

7

A

B

C

D

E

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G

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Hit Summary Sheet SW-846

SDG No.:	K5154	Order ID:	K5154
Client:	TRC Companies, Inc.	Project ID:	NYCDPR Bush Terminal LandFill Piers 1-4

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : FB-10012019								
K5154-02	FB-10012019	Water	Arsenic	0.160	J	0.12	1.00	ug/L
K5154-02	FB-10012019	Water	Barium	42.100		0.18	10.0	ug/L
K5154-02	FB-10012019	Water	Calcium	29,500.000		14.3	500	ug/L
K5154-02	FB-10012019	Water	Chromium	0.190	J	0.075	2.00	ug/L
K5154-02	FB-10012019	Water	Copper	0.660	J	0.49	2.00	ug/L
K5154-02	FB-10012019	Water	Iron	71.500		2.69	50.0	ug/L
K5154-02	FB-10012019	Water	Lead	0.100	J	0.019	1.00	ug/L
K5154-02	FB-10012019	Water	Magnesium	8,590.000		3.74	500	ug/L
K5154-02	FB-10012019	Water	Manganese	5.570		0.073	1.00	ug/L
K5154-02	FB-10012019	Water	Nickel	0.120	J	0.068	1.00	ug/L
K5154-02	FB-10012019	Water	Mercury	0.063	J	0.043	0.20	ug/L
K5154-02	FB-10012019	Water	Potassium	1,800.000		19.9	500	ug/L
K5154-02	FB-10012019	Water	Sodium	28,400.000		28.5	500	ug/L
K5154-02	FB-10012019	Water	Vanadium	0.690	J	0.070	5.00	ug/L
K5154-02	FB-10012019	Water	Zinc	22.700		0.56	2.00	ug/L
Client ID : MW-106S								
K5154-03	MW-106S	Water	Aluminum	53.400		3.67	20.0	ug/L
K5154-03	MW-106S	Water	Antimony	0.830	J	0.076	2.00	ug/L
K5154-03	MW-106S	Water	Arsenic	0.610	J	0.12	1.00	ug/L
K5154-03	MW-106S	Water	Barium	115.000		0.18	10.0	ug/L
K5154-03	MW-106S	Water	Calcium	168,000.000		14.3	500	ug/L
K5154-03	MW-106S	Water	Chromium	0.930	J	0.075	2.00	ug/L
K5154-03	MW-106S	Water	Cobalt	0.220	J	0.053	1.00	ug/L
K5154-03	MW-106S	Water	Copper	10.800		0.49	2.00	ug/L
K5154-03	MW-106S	Water	Iron	1,090.000		2.69	50.0	ug/L
K5154-03	MW-106S	Water	Lead	1.740		0.019	1.00	ug/L
K5154-03	MW-106S	Water	Magnesium	42,200.000		3.74	500	ug/L
K5154-03	MW-106S	Water	Manganese	213.000		0.073	1.00	ug/L
K5154-03	MW-106S	Water	Nickel	0.880	J	0.068	1.00	ug/L
K5154-03	MW-106S	Water	Mercury	0.140	J	0.043	0.20	ug/L
K5154-03	MW-106S	Water	Potassium	28,900.000		19.9	500	ug/L
K5154-03	MW-106S	Water	Sodium	372,000.000		28.5	500	ug/L
K5154-03	MW-106S	Water	Vanadium	1.680	J	0.070	5.00	ug/L
K5154-03	MW-106S	Water	Zinc	10.600		0.56	2.00	ug/L
Client ID : MW-106I								
K5154-04	MW-106I	Water	Aluminum	42.300		3.67	20.0	ug/L
K5154-04	MW-106I	Water	Antimony	0.800	J	0.076	2.00	ug/L
K5154-04	MW-106I	Water	Arsenic	5.720		0.12	1.00	ug/L

Hit Summary Sheet SW-846

SDG No.:	K5154	Order ID:	K5154
Client:	TRC Companies, Inc.	Project ID:	NYCDPR Bush Terminal LandFill Piers 1-4

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
K5154-04	MW-106I	Water	Barium	83.600		0.18	10.0	ug/L
K5154-04	MW-106I	Water	Calcium	14,500.000		14.3	500	ug/L
K5154-04	MW-106I	Water	Chromium	1.200	J	0.075	2.00	ug/L
K5154-04	MW-106I	Water	Cobalt	0.200	J	0.053	1.00	ug/L
K5154-04	MW-106I	Water	Copper	12.500		0.49	2.00	ug/L
K5154-04	MW-106I	Water	Iron	707.000		2.69	50.0	ug/L
K5154-04	MW-106I	Water	Lead	3.190		0.019	1.00	ug/L
K5154-04	MW-106I	Water	Magnesium	42,100.000		3.74	500	ug/L
K5154-04	MW-106I	Water	Manganese	33.600		0.073	1.00	ug/L
K5154-04	MW-106I	Water	Nickel	0.730	J	0.068	1.00	ug/L
K5154-04	MW-106I	Water	Mercury	0.130	J	0.043	0.20	ug/L
K5154-04	MW-106I	Water	Potassium	37,600.000		19.9	500	ug/L
K5154-04	MW-106I	Water	Selenium	6.770		3.30	5.00	ug/L
K5154-04	MW-106I	Water	Sodium	757,000.000	D	713	12500	ug/L
K5154-04	MW-106I	Water	Vanadium	5.530		0.070	5.00	ug/L
K5154-04	MW-106I	Water	Zinc	94.800		0.56	2.00	ug/L

Client ID : MW-106D

K5154-05	MW-106D	Water	Aluminum	352.000		3.67	20.0	ug/L
K5154-05	MW-106D	Water	Antimony	0.790	J	0.076	2.00	ug/L
K5154-05	MW-106D	Water	Arsenic	12.600		0.12	1.00	ug/L
K5154-05	MW-106D	Water	Barium	48.700		0.18	10.0	ug/L
K5154-05	MW-106D	Water	Calcium	41,500.000		14.3	500	ug/L
K5154-05	MW-106D	Water	Chromium	1.970	J	0.075	2.00	ug/L
K5154-05	MW-106D	Water	Cobalt	0.980	J	0.053	1.00	ug/L
K5154-05	MW-106D	Water	Copper	9.290		0.49	2.00	ug/L
K5154-05	MW-106D	Water	Iron	3,840.000		2.69	50.0	ug/L
K5154-05	MW-106D	Water	Lead	1.700		0.019	1.00	ug/L
K5154-05	MW-106D	Water	Magnesium	133,000.000		3.74	500	ug/L
K5154-05	MW-106D	Water	Manganese	1,790.000		0.073	1.00	ug/L
K5154-05	MW-106D	Water	Nickel	1.640		0.068	1.00	ug/L
K5154-05	MW-106D	Water	Mercury	0.120	J	0.043	0.20	ug/L
K5154-05	MW-106D	Water	Potassium	77,800.000		19.9	500	ug/L
K5154-05	MW-106D	Water	Selenium	16.700		3.30	5.00	ug/L
K5154-05	MW-106D	Water	Sodium	2,040,000.000	D	285	5000	ug/L
K5154-05	MW-106D	Water	Vanadium	1.410	J	0.070	5.00	ug/L
K5154-05	MW-106D	Water	Zinc	19.200		0.56	2.00	ug/L

Client ID : MW-107

K5154-06	MW-107	Water	Aluminum	304.000		3.67	20.0	ug/L
K5154-06	MW-107	Water	Antimony	0.720	J	0.076	2.00	ug/L
K5154-06	MW-107	Water	Arsenic	12.600		0.12	1.00	ug/L
K5154-06	MW-107	Water	Barium	48.000		0.18	10.0	ug/L

Hit Summary Sheet SW-846

SDG No.:	K5154	Order ID:	K5154
Client:	TRC Companies, Inc.	Project ID:	NYCDPR Bush Terminal LandFill Piers 1-4

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
K5154-06	MW-107	Water	Calcium	40,700.000		14.3	500	ug/L
K5154-06	MW-107	Water	Chromium	1.860	J	0.075	2.00	ug/L
K5154-06	MW-107	Water	Cobalt	0.950	J	0.053	1.00	ug/L
K5154-06	MW-107	Water	Copper	8.820		0.49	2.00	ug/L
K5154-06	MW-107	Water	Iron	3,720.000		2.69	50.0	ug/L
K5154-06	MW-107	Water	Lead	1.520		0.019	1.00	ug/L
K5154-06	MW-107	Water	Magnesium	136,000.000		3.74	500	ug/L
K5154-06	MW-107	Water	Manganese	1,790.000		0.073	1.00	ug/L
K5154-06	MW-107	Water	Nickel	1.650		0.068	1.00	ug/L
K5154-06	MW-107	Water	Mercury	0.120	J	0.043	0.20	ug/L
K5154-06	MW-107	Water	Potassium	79,600.000		19.9	500	ug/L
K5154-06	MW-107	Water	Selenium	18.600		3.30	5.00	ug/L
K5154-06	MW-107	Water	Sodium	2,010,000.000	D	285	5000	ug/L
K5154-06	MW-107	Water	Vanadium	1.300	J	0.070	5.00	ug/L
K5154-06	MW-107	Water	Zinc	19.900		0.56	2.00	ug/L

Client ID : MW-103S

K5154-10	MW-103S	Water	Aluminum	137.000		3.67	20.0	ug/L
K5154-10	MW-103S	Water	Antimony	0.680	J	0.076	2.00	ug/L
K5154-10	MW-103S	Water	Arsenic	1.080		0.12	1.00	ug/L
K5154-10	MW-103S	Water	Barium	278.000		0.18	10.0	ug/L
K5154-10	MW-103S	Water	Calcium	101,000.000		14.3	500	ug/L
K5154-10	MW-103S	Water	Chromium	1.620	J	0.075	2.00	ug/L
K5154-10	MW-103S	Water	Cobalt	0.450	J	0.053	1.00	ug/L
K5154-10	MW-103S	Water	Copper	17.800		0.49	2.00	ug/L
K5154-10	MW-103S	Water	Iron	2,910.000		2.69	50.0	ug/L
K5154-10	MW-103S	Water	Lead	5.310		0.019	1.00	ug/L
K5154-10	MW-103S	Water	Magnesium	160,000.000		3.74	500	ug/L
K5154-10	MW-103S	Water	Manganese	236.000		0.073	1.00	ug/L
K5154-10	MW-103S	Water	Nickel	1.570		0.068	1.00	ug/L
K5154-10	MW-103S	Water	Potassium	82,000.000		19.9	500	ug/L
K5154-10	MW-103S	Water	Selenium	21.700		3.30	5.00	ug/L
K5154-10	MW-103S	Water	Sodium	1,850,000.000	D	713	12500	ug/L
K5154-10	MW-103S	Water	Vanadium	3.930	J	0.070	5.00	ug/L
K5154-10	MW-103S	Water	Zinc	20.800		0.56	2.00	ug/L

Client ID : MW-103I

K5154-11	MW-103I	Water	Aluminum	18.700	J	3.67	20.0	ug/L
K5154-11	MW-103I	Water	Antimony	0.640	J	0.076	2.00	ug/L
K5154-11	MW-103I	Water	Arsenic	8.540		0.12	1.00	ug/L
K5154-11	MW-103I	Water	Barium	146.000		0.18	10.0	ug/L
K5154-11	MW-103I	Water	Calcium	45,300.000		14.3	500	ug/L
K5154-11	MW-103I	Water	Chromium	1.170	J	0.075	2.00	ug/L

Hit Summary Sheet SW-846

SDG No.:	K5154	Order ID:	K5154
Client:	TRC Companies, Inc.	Project ID:	NYCDPR Bush Terminal LandFill Piers 1-4

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
K5154-11	MW-103I	Water	Cobalt	0.370	J	0.053	1.00	ug/L
K5154-11	MW-103I	Water	Copper	7.250		0.49	2.00	ug/L
K5154-11	MW-103I	Water	Iron	2,090.000		2.69	50.0	ug/L
K5154-11	MW-103I	Water	Lead	1.710		0.019	1.00	ug/L
K5154-11	MW-103I	Water	Magnesium	62,900.000		3.74	500	ug/L
K5154-11	MW-103I	Water	Manganese	844.000		0.073	1.00	ug/L
K5154-11	MW-103I	Water	Nickel	0.580	J	0.068	1.00	ug/L
K5154-11	MW-103I	Water	Potassium	28,600.000		19.9	500	ug/L
K5154-11	MW-103I	Water	Selenium	3.870	J	3.30	5.00	ug/L
K5154-11	MW-103I	Water	Sodium	267,000.000		28.5	500	ug/L
K5154-11	MW-103I	Water	Vanadium	1.050	J	0.070	5.00	ug/L
K5154-11	MW-103I	Water	Zinc	42.700		0.56	2.00	ug/L
Client ID : MW-103D								
K5154-14	MW-103D	Water	Aluminum	50.900		3.67	20.0	ug/L
K5154-14	MW-103D	Water	Antimony	0.790	J	0.076	2.00	ug/L
K5154-14	MW-103D	Water	Arsenic	0.490	J	0.12	1.00	ug/L
K5154-14	MW-103D	Water	Barium	12.900		0.18	10.0	ug/L
K5154-14	MW-103D	Water	Beryllium	0.110	J	0.068	1.00	ug/L
K5154-14	MW-103D	Water	Calcium	7,710.000		14.3	500	ug/L
K5154-14	MW-103D	Water	Chromium	1.110	J	0.075	2.00	ug/L
K5154-14	MW-103D	Water	Cobalt	0.380	J	0.053	1.00	ug/L
K5154-14	MW-103D	Water	Copper	19.200		0.49	2.00	ug/L
K5154-14	MW-103D	Water	Iron	4,040.000		2.69	50.0	ug/L
K5154-14	MW-103D	Water	Lead	4.850		0.019	1.00	ug/L
K5154-14	MW-103D	Water	Magnesium	1,770.000		3.74	500	ug/L
K5154-14	MW-103D	Water	Manganese	175.000		0.073	1.00	ug/L
K5154-14	MW-103D	Water	Nickel	1.920		0.068	1.00	ug/L
K5154-14	MW-103D	Water	Potassium	18,800.000		19.9	500	ug/L
K5154-14	MW-103D	Water	Sodium	10,300.000		28.5	500	ug/L
K5154-14	MW-103D	Water	Thallium	0.240	J	0.030	1.00	ug/L
K5154-14	MW-103D	Water	Vanadium	0.580	J	0.070	5.00	ug/L
K5154-14	MW-103D	Water	Zinc	36.200		0.56	2.00	ug/L
Client ID : MW-105S								
K5154-15	MW-105S	Water	Aluminum	134.000		3.67	20.0	ug/L
K5154-15	MW-105S	Water	Antimony	1.100	J	0.076	2.00	ug/L
K5154-15	MW-105S	Water	Arsenic	1.890		0.12	1.00	ug/L
K5154-15	MW-105S	Water	Barium	116.000		0.18	10.0	ug/L
K5154-15	MW-105S	Water	Beryllium	0.070	J	0.068	1.00	ug/L
K5154-15	MW-105S	Water	Calcium	88,200.000		14.3	500	ug/L
K5154-15	MW-105S	Water	Chromium	2.560		0.075	2.00	ug/L
K5154-15	MW-105S	Water	Cobalt	0.540	J	0.053	1.00	ug/L

Hit Summary Sheet SW-846

SDG No.:	K5154	Order ID:	K5154
Client:	TRC Companies, Inc.	Project ID:	NYCDPR Bush Terminal LandFill Piers 1-4

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
K5154-15	MW-105S	Water	Copper	30.100		0.49	2.00	ug/L
K5154-15	MW-105S	Water	Iron	10,500.000		2.69	50.0	ug/L
K5154-15	MW-105S	Water	Lead	6.100		0.019	1.00	ug/L
K5154-15	MW-105S	Water	Magnesium	46,800.000		3.74	500	ug/L
K5154-15	MW-105S	Water	Manganese	200.000		0.073	1.00	ug/L
K5154-15	MW-105S	Water	Nickel	1.560		0.068	1.00	ug/L
K5154-15	MW-105S	Water	Potassium	32,100.000		19.9	500	ug/L
K5154-15	MW-105S	Water	Sodium	411,000.000		28.5	500	ug/L
K5154-15	MW-105S	Water	Thallium	0.100	J	0.030	1.00	ug/L
K5154-15	MW-105S	Water	Vanadium	2.990	J	0.070	5.00	ug/L
K5154-15	MW-105S	Water	Zinc	554.000		0.56	2.00	ug/L

Client ID : MW-105I

K5154-16	MW-105I	Water	Aluminum	5.390	J	3.67	20.0	ug/L
K5154-16	MW-105I	Water	Antimony	0.790	J	0.076	2.00	ug/L
K5154-16	MW-105I	Water	Arsenic	8.710		0.12	1.00	ug/L
K5154-16	MW-105I	Water	Barium	71.400		0.18	10.0	ug/L
K5154-16	MW-105I	Water	Calcium	20,500.000		14.3	500	ug/L
K5154-16	MW-105I	Water	Chromium	0.770	J	0.075	2.00	ug/L
K5154-16	MW-105I	Water	Cobalt	0.190	J	0.053	1.00	ug/L
K5154-16	MW-105I	Water	Copper	4.310		0.49	2.00	ug/L
K5154-16	MW-105I	Water	Iron	134.000		2.69	50.0	ug/L
K5154-16	MW-105I	Water	Lead	0.430	J	0.019	1.00	ug/L
K5154-16	MW-105I	Water	Magnesium	38,400.000		3.74	500	ug/L
K5154-16	MW-105I	Water	Manganese	11.900		0.073	1.00	ug/L
K5154-16	MW-105I	Water	Nickel	0.300	J	0.068	1.00	ug/L
K5154-16	MW-105I	Water	Potassium	31,300.000		19.9	500	ug/L
K5154-16	MW-105I	Water	Sodium	328,000.000		28.5	500	ug/L
K5154-16	MW-105I	Water	Thallium	0.030	J	0.030	1.00	ug/L
K5154-16	MW-105I	Water	Vanadium	4.440	J	0.070	5.00	ug/L
K5154-16	MW-105I	Water	Zinc	4.570		0.56	2.00	ug/L

Client ID : MW-105D

K5154-17	MW-105D	Water	Aluminum	22.400		3.67	20.0	ug/L
K5154-17	MW-105D	Water	Antimony	1.830	J	0.076	2.00	ug/L
K5154-17	MW-105D	Water	Arsenic	0.830	J	0.12	1.00	ug/L
K5154-17	MW-105D	Water	Barium	7.290	J	0.18	10.0	ug/L
K5154-17	MW-105D	Water	Calcium	4,800.000		14.3	500	ug/L
K5154-17	MW-105D	Water	Chromium	1.840	J	0.075	2.00	ug/L
K5154-17	MW-105D	Water	Cobalt	0.290	J	0.053	1.00	ug/L
K5154-17	MW-105D	Water	Copper	10.600		0.49	2.00	ug/L
K5154-17	MW-105D	Water	Iron	1,290.000		2.69	50.0	ug/L
K5154-17	MW-105D	Water	Lead	2.120		0.019	1.00	ug/L

Hit Summary Sheet SW-846

SDG No.:	K5154	Order ID:	K5154
Client:	TRC Companies, Inc.	Project ID:	NYCDPR Bush Terminal LandFill Piers 1-4

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
K5154-17	MW-105D	Water	Magnesium	2,540.000		3.74	500	ug/L
K5154-17	MW-105D	Water	Manganese	23.200		0.073	1.00	ug/L
K5154-17	MW-105D	Water	Nickel	1.720		0.068	1.00	ug/L
K5154-17	MW-105D	Water	Potassium	76,600.000		19.9	500	ug/L
K5154-17	MW-105D	Water	Sodium	34,800.000		28.5	500	ug/L
K5154-17	MW-105D	Water	Vanadium	2.270	J	0.070	5.00	ug/L
K5154-17	MW-105D	Water	Zinc	144.000		0.56	2.00	ug/L
Client ID : MW-104I								
K5154-18	MW-104I	Water	Aluminum	15.100	J	3.67	20.0	ug/L
K5154-18	MW-104I	Water	Antimony	0.770	J	0.076	2.00	ug/L
K5154-18	MW-104I	Water	Arsenic	11.200		0.12	1.00	ug/L
K5154-18	MW-104I	Water	Barium	157.000		0.18	10.0	ug/L
K5154-18	MW-104I	Water	Calcium	14,700.000		14.3	500	ug/L
K5154-18	MW-104I	Water	Chromium	0.610	J	0.075	2.00	ug/L
K5154-18	MW-104I	Water	Cobalt	1.090		0.053	1.00	ug/L
K5154-18	MW-104I	Water	Copper	3.940		0.49	2.00	ug/L
K5154-18	MW-104I	Water	Iron	2,540.000		2.69	50.0	ug/L
K5154-18	MW-104I	Water	Lead	1.360		0.019	1.00	ug/L
K5154-18	MW-104I	Water	Magnesium	32,800.000		3.74	500	ug/L
K5154-18	MW-104I	Water	Manganese	674.000		0.073	1.00	ug/L
K5154-18	MW-104I	Water	Nickel	0.850	J	0.068	1.00	ug/L
K5154-18	MW-104I	Water	Potassium	36,800.000		19.9	500	ug/L
K5154-18	MW-104I	Water	Sodium	208,000.000		28.5	500	ug/L
K5154-18	MW-104I	Water	Vanadium	0.460	J	0.070	5.00	ug/L
K5154-18	MW-104I	Water	Zinc	9.110		0.56	2.00	ug/L
Client ID : MW-104D								
K5154-19	MW-104D	Water	Aluminum	108.000		3.67	20.0	ug/L
K5154-19	MW-104D	Water	Antimony	0.870	J	0.076	2.00	ug/L
K5154-19	MW-104D	Water	Arsenic	2.430		0.12	1.00	ug/L
K5154-19	MW-104D	Water	Barium	85.500		0.18	10.0	ug/L
K5154-19	MW-104D	Water	Calcium	154,000.000		14.3	500	ug/L
K5154-19	MW-104D	Water	Chromium	1.700	J	0.075	2.00	ug/L
K5154-19	MW-104D	Water	Cobalt	6.260		0.053	1.00	ug/L
K5154-19	MW-104D	Water	Copper	7.560		0.49	2.00	ug/L
K5154-19	MW-104D	Water	Iron	5,250.000		2.69	50.0	ug/L
K5154-19	MW-104D	Water	Lead	2.000	JD	0.096	5.00	ug/L
K5154-19	MW-104D	Water	Magnesium	580,000.000	D	18.7	2500	ug/L
K5154-19	MW-104D	Water	Manganese	3,680.000	D	0.37	5.00	ug/L
K5154-19	MW-104D	Water	Nickel	8.340		0.068	1.00	ug/L
K5154-19	MW-104D	Water	Potassium	185,000.000		19.9	500	ug/L
K5154-19	MW-104D	Water	Selenium	32.100		3.30	5.00	ug/L

Hit Summary Sheet SW-846

SDG No.:	K5154	Order ID:	K5154
Client:	TRC Companies, Inc.	Project ID:	NYCDPR Bush Terminal LandFill Piers 1-4

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
K5154-19	MW-104D	Water	Sodium	6,140,000.000	D	1430	25000	ug/L
K5154-19	MW-104D	Water	Vanadium	0.780	J	0.070	5.00	ug/L
K5154-19	MW-104D	Water	Zinc	111.000		0.56	2.00	ug/L
Client ID : MW-102S								
K5154-21	MW-102S	Water	Aluminum	1,980.000		3.67	20.0	ug/L
K5154-21	MW-102S	Water	Antimony	9.330		0.076	2.00	ug/L
K5154-21	MW-102S	Water	Arsenic	2.300		0.12	1.00	ug/L
K5154-21	MW-102S	Water	Barium	89.100		0.18	10.0	ug/L
K5154-21	MW-102S	Water	Beryllium	0.140	J	0.068	1.00	ug/L
K5154-21	MW-102S	Water	Cadmium	0.340	J	0.26	1.00	ug/L
K5154-21	MW-102S	Water	Calcium	21,000.000		14.3	500	ug/L
K5154-21	MW-102S	Water	Chromium	9.160		0.075	2.00	ug/L
K5154-21	MW-102S	Water	Cobalt	1.460		0.053	1.00	ug/L
K5154-21	MW-102S	Water	Copper	22.100		0.49	2.00	ug/L
K5154-21	MW-102S	Water	Iron	2,830.000		2.69	50.0	ug/L
K5154-21	MW-102S	Water	Lead	7.690		0.019	1.00	ug/L
K5154-21	MW-102S	Water	Magnesium	1,010.000		3.74	500	ug/L
K5154-21	MW-102S	Water	Manganese	72.400		0.073	1.00	ug/L
K5154-21	MW-102S	Water	Nickel	4.290		0.068	1.00	ug/L
K5154-21	MW-102S	Water	Potassium	5,130.000		19.9	500	ug/L
K5154-21	MW-102S	Water	Silver	0.580	J	0.30	1.00	ug/L
K5154-21	MW-102S	Water	Sodium	26,100.000		28.5	500	ug/L
K5154-21	MW-102S	Water	Thallium	1.900		0.030	1.00	ug/L
K5154-21	MW-102S	Water	Vanadium	6.650		0.070	5.00	ug/L
K5154-21	MW-102S	Water	Zinc	45.700		0.56	2.00	ug/L
Client ID : MW-102I								
K5154-22	MW-102I	Water	Aluminum	457.000		3.67	20.0	ug/L
K5154-22	MW-102I	Water	Antimony	2.340		0.076	2.00	ug/L
K5154-22	MW-102I	Water	Arsenic	1.030		0.12	1.00	ug/L
K5154-22	MW-102I	Water	Barium	88.100		0.18	10.0	ug/L
K5154-22	MW-102I	Water	Calcium	109,000.000		14.3	500	ug/L
K5154-22	MW-102I	Water	Chromium	7.010		0.075	2.00	ug/L
K5154-22	MW-102I	Water	Cobalt	0.650	J	0.053	1.00	ug/L
K5154-22	MW-102I	Water	Copper	14.400		0.49	2.00	ug/L
K5154-22	MW-102I	Water	Iron	1,250.000		2.69	50.0	ug/L
K5154-22	MW-102I	Water	Lead	5.950		0.019	1.00	ug/L
K5154-22	MW-102I	Water	Magnesium	25,400.000		3.74	500	ug/L
K5154-22	MW-102I	Water	Manganese	80.900		0.073	1.00	ug/L
K5154-22	MW-102I	Water	Nickel	2.460		0.068	1.00	ug/L
K5154-22	MW-102I	Water	Mercury	0.045	J	0.043	0.20	ug/L
K5154-22	MW-102I	Water	Potassium	5,530.000		19.9	500	ug/L

Hit Summary Sheet SW-846

SDG No.:	K5154	Order ID:	K5154
Client:	TRC Companies, Inc.	Project ID:	NYCDPR Bush Terminal LandFill Piers 1-4

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
K5154-22	MW-102I	Water	Sodium	97,000.000		28.5	500	ug/L
K5154-22	MW-102I	Water	Thallium	0.270	J	0.030	1.00	ug/L
K5154-22	MW-102I	Water	Vanadium	2.740	J	0.070	5.00	ug/L
K5154-22	MW-102I	Water	Zinc	27.000		0.56	2.00	ug/L

Client ID : MW-102D

K5154-23	MW-102D	Water	Aluminum	1,140.000		3.67	20.0	ug/L
K5154-23	MW-102D	Water	Antimony	2.480		0.076	2.00	ug/L
K5154-23	MW-102D	Water	Arsenic	5.280		0.12	1.00	ug/L
K5154-23	MW-102D	Water	Barium	21.300		0.18	10.0	ug/L
K5154-23	MW-102D	Water	Beryllium	0.100	J	0.068	1.00	ug/L
K5154-23	MW-102D	Water	Calcium	7,780.000		14.3	500	ug/L
K5154-23	MW-102D	Water	Chromium	8.070		0.075	2.00	ug/L
K5154-23	MW-102D	Water	Cobalt	1.390		0.053	1.00	ug/L
K5154-23	MW-102D	Water	Copper	19.600		0.49	2.00	ug/L
K5154-23	MW-102D	Water	Iron	2,340.000		2.69	50.0	ug/L
K5154-23	MW-102D	Water	Lead	9.150		0.019	1.00	ug/L
K5154-23	MW-102D	Water	Magnesium	3,570.000		3.74	500	ug/L
K5154-23	MW-102D	Water	Manganese	112.000		0.073	1.00	ug/L
K5154-23	MW-102D	Water	Nickel	3.720		0.068	1.00	ug/L
K5154-23	MW-102D	Water	Mercury	0.077	J	0.043	0.20	ug/L
K5154-23	MW-102D	Water	Potassium	6,370.000		19.9	500	ug/L
K5154-23	MW-102D	Water	Silver	0.600	J	0.30	1.00	ug/L
K5154-23	MW-102D	Water	Sodium	362,000.000		28.5	500	ug/L
K5154-23	MW-102D	Water	Thallium	0.480	J	0.030	1.00	ug/L
K5154-23	MW-102D	Water	Vanadium	4.720	J	0.070	5.00	ug/L
K5154-23	MW-102D	Water	Zinc	81.200		0.56	2.00	ug/L

Client ID : MW-101S

K5154-24	MW-101S	Water	Aluminum	156.000		3.67	20.0	ug/L
K5154-24	MW-101S	Water	Antimony	3.000		0.076	2.00	ug/L
K5154-24	MW-101S	Water	Arsenic	2.070		0.12	1.00	ug/L
K5154-24	MW-101S	Water	Barium	81.600		0.18	10.0	ug/L
K5154-24	MW-101S	Water	Calcium	74,500.000		14.3	500	ug/L
K5154-24	MW-101S	Water	Chromium	2.500		0.075	2.00	ug/L
K5154-24	MW-101S	Water	Cobalt	1.770		0.053	1.00	ug/L
K5154-24	MW-101S	Water	Copper	11.600		0.49	2.00	ug/L
K5154-24	MW-101S	Water	Iron	454.000		2.69	50.0	ug/L
K5154-24	MW-101S	Water	Lead	5.060		0.019	1.00	ug/L
K5154-24	MW-101S	Water	Magnesium	25,300.000		3.74	500	ug/L
K5154-24	MW-101S	Water	Manganese	96.100		0.073	1.00	ug/L
K5154-24	MW-101S	Water	Nickel	1.920		0.068	1.00	ug/L
K5154-24	MW-101S	Water	Mercury	0.055	J	0.043	0.20	ug/L

Hit Summary Sheet SW-846

SDG No.:	K5154	Order ID:	K5154
Client:	TRC Companies, Inc.	Project ID:	NYCDPR Bush Terminal LandFill Piers 1-4

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
K5154-24	MW-101S	Water	Potassium	4,820.000		19.9	500	ug/L
K5154-24	MW-101S	Water	Selenium	3.340	J	3.30	5.00	ug/L
K5154-24	MW-101S	Water	Sodium	127,000.000		28.5	500	ug/L
K5154-24	MW-101S	Water	Thallium	0.150	J	0.030	1.00	ug/L
K5154-24	MW-101S	Water	Vanadium	2.170	J	0.070	5.00	ug/L
K5154-24	MW-101S	Water	Zinc	38.100		0.56	2.00	ug/L
Client ID : MW-101I								
K5154-25	MW-101I	Water	Aluminum	130.000		3.67	20.0	ug/L
K5154-25	MW-101I	Water	Antimony	1.860	J	0.076	2.00	ug/L
K5154-25	MW-101I	Water	Arsenic	1.300		0.12	1.00	ug/L
K5154-25	MW-101I	Water	Barium	146.000		0.18	10.0	ug/L
K5154-25	MW-101I	Water	Calcium	72,700.000		14.3	500	ug/L
K5154-25	MW-101I	Water	Chromium	4.310		0.075	2.00	ug/L
K5154-25	MW-101I	Water	Cobalt	0.140	J	0.053	1.00	ug/L
K5154-25	MW-101I	Water	Copper	7.280		0.49	2.00	ug/L
K5154-25	MW-101I	Water	Iron	452.000		2.69	50.0	ug/L
K5154-25	MW-101I	Water	Lead	3.800		0.019	1.00	ug/L
K5154-25	MW-101I	Water	Magnesium	71,900.000		3.74	500	ug/L
K5154-25	MW-101I	Water	Manganese	5.800		0.073	1.00	ug/L
K5154-25	MW-101I	Water	Nickel	0.620	J	0.068	1.00	ug/L
K5154-25	MW-101I	Water	Potassium	18,400.000		19.9	500	ug/L
K5154-25	MW-101I	Water	Sodium	112,000.000		28.5	500	ug/L
K5154-25	MW-101I	Water	Thallium	0.070	J	0.030	1.00	ug/L
K5154-25	MW-101I	Water	Vanadium	3.040	J	0.070	5.00	ug/L
K5154-25	MW-101I	Water	Zinc	47.200		0.56	2.00	ug/L
Client ID : MW-101D								
K5154-26	MW-101D	Water	Aluminum	219.000		3.67	20.0	ug/L
K5154-26	MW-101D	Water	Antimony	1.570	J	0.076	2.00	ug/L
K5154-26	MW-101D	Water	Arsenic	1.010		0.12	1.00	ug/L
K5154-26	MW-101D	Water	Barium	70.900		0.18	10.0	ug/L
K5154-26	MW-101D	Water	Calcium	57,100.000		14.3	500	ug/L
K5154-26	MW-101D	Water	Chromium	3.900		0.075	2.00	ug/L
K5154-26	MW-101D	Water	Cobalt	0.650	J	0.053	1.00	ug/L
K5154-26	MW-101D	Water	Copper	6.660		0.49	2.00	ug/L
K5154-26	MW-101D	Water	Iron	580.000		2.69	50.0	ug/L
K5154-26	MW-101D	Water	Lead	1.820		0.019	1.00	ug/L
K5154-26	MW-101D	Water	Magnesium	33,800.000		3.74	500	ug/L
K5154-26	MW-101D	Water	Manganese	135.000		0.073	1.00	ug/L
K5154-26	MW-101D	Water	Nickel	1.780		0.068	1.00	ug/L
K5154-26	MW-101D	Water	Mercury	0.059	J	0.043	0.20	ug/L
K5154-26	MW-101D	Water	Potassium	16,000.000		19.9	500	ug/L

Hit Summary Sheet
SW-846

SDG No.:	K5154	Order ID:	K5154
Client:	TRC Companies, Inc.	Project ID:	NYCDPR Bush Terminal LandFill Piers 1-4

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
K5154-26	MW-101D	Water	Sodium	294,000.000		28.5	500	ug/L
K5154-26	MW-101D	Water	Thallium	0.060	J	0.030	1.00	ug/L
K5154-26	MW-101D	Water	Vanadium	2.260	J	0.070	5.00	ug/L
K5154-26	MW-101D	Water	Zinc	47.900		0.56	2.00	ug/L

SAMPLE DATA

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	FB-10012019	SDG No.:	K5154
Lab Sample ID:	K5154-02	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	20.0	U	1	3.67	20.0	ug/L	10/03/19 14:16	10/10/19 20:09	SW6020
7440-36-0	Antimony	2.00	U	1	0.076	2.00	ug/L	10/03/19 14:16	10/10/19 20:09	SW6020
7440-38-2	Arsenic	0.16	J	1	0.12	1.00	ug/L	10/03/19 14:16	10/10/19 20:09	SW6020
7440-39-3	Barium	42.1		1	0.18	10.0	ug/L	10/03/19 14:16	10/10/19 20:09	SW6020
7440-41-7	Beryllium	1.00	U	1	0.068	1.00	ug/L	10/03/19 14:16	10/10/19 20:09	SW6020
7440-43-9	Cadmium	1.00	U	1	0.26	1.00	ug/L	10/03/19 14:16	10/10/19 20:09	SW6020
7440-70-2	Calcium	29500		1	14.3	500	ug/L	10/03/19 14:16	10/10/19 20:09	SW6020
7440-47-3	Chromium	0.19	J	1	0.075	2.00	ug/L	10/03/19 14:16	10/10/19 20:09	SW6020
7440-48-4	Cobalt	1.00	U	1	0.053	1.00	ug/L	10/03/19 14:16	10/10/19 20:09	SW6020
7440-50-8	Copper	0.66	J	1	0.49	2.00	ug/L	10/03/19 14:16	10/10/19 20:09	SW6020
7439-89-6	Iron	71.5		1	2.69	50.0	ug/L	10/03/19 14:16	10/10/19 20:09	SW6020
7439-92-1	Lead	0.10	J*	1	0.019	1.00	ug/L	10/03/19 14:16	10/10/19 20:09	SW6020
7439-95-4	Magnesium	8590		1	3.74	500	ug/L	10/03/19 14:16	10/10/19 20:09	SW6020
7439-96-5	Manganese	5.57		1	0.073	1.00	ug/L	10/03/19 14:16	10/10/19 20:09	SW6020
7439-97-6	Mercury	0.063	J	1	0.043	0.20	ug/L	10/02/19 10:25	10/03/19 14:44	SW7470A
7440-02-0	Nickel	0.12	J	1	0.068	1.00	ug/L	10/03/19 14:16	10/10/19 20:09	SW6020
7440-09-7	Potassium	1800		1	19.9	500	ug/L	10/03/19 14:16	10/10/19 20:09	SW6020
7782-49-2	Selenium	5.00	U	1	3.30	5.00	ug/L	10/03/19 14:16	10/10/19 20:09	SW6020
7440-22-4	Silver	1.00	UN	1	0.30	1.00	ug/L	10/03/19 14:16	10/10/19 20:09	SW6020
7440-23-5	Sodium	28400		1	28.5	500	ug/L	10/03/19 14:16	10/10/19 20:09	SW6020
7440-28-0	Thallium	1.00	U	1	0.030	1.00	ug/L	10/03/19 14:16	10/10/19 20:09	SW6020
7440-62-2	Vanadium	0.69	J	1	0.070	5.00	ug/L	10/03/19 14:16	10/10/19 20:09	SW6020
7440-66-6	Zinc	22.7		1	0.56	2.00	ug/L	10/03/19 14:16	10/10/19 20:09	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N = Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-106S	SDG No.:	K5154
Lab Sample ID:	K5154-03	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	53.4		1	3.67	20.0	ug/L	10/03/19 14:16	10/10/19 17:53	SW6020
7440-36-0	Antimony	0.83	J	1	0.076	2.00	ug/L	10/03/19 14:16	10/10/19 17:53	SW6020
7440-38-2	Arsenic	0.61	J	1	0.12	1.00	ug/L	10/03/19 14:16	10/10/19 17:53	SW6020
7440-39-3	Barium	115		1	0.18	10.0	ug/L	10/03/19 14:16	10/10/19 17:53	SW6020
7440-41-7	Beryllium	1.00	U	1	0.068	1.00	ug/L	10/03/19 14:16	10/10/19 17:53	SW6020
7440-43-9	Cadmium	1.00	U	1	0.26	1.00	ug/L	10/03/19 14:16	10/10/19 17:53	SW6020
7440-70-2	Calcium	168000		1	14.3	500	ug/L	10/03/19 14:16	10/10/19 17:53	SW6020
7440-47-3	Chromium	0.93	J	1	0.075	2.00	ug/L	10/03/19 14:16	10/10/19 17:53	SW6020
7440-48-4	Cobalt	0.22	J	1	0.053	1.00	ug/L	10/03/19 14:16	10/10/19 17:53	SW6020
7440-50-8	Copper	10.8		1	0.49	2.00	ug/L	10/03/19 14:16	10/10/19 17:53	SW6020
7439-89-6	Iron	1090		1	2.69	50.0	ug/L	10/03/19 14:16	10/10/19 17:53	SW6020
7439-92-1	Lead	1.74	*	1	0.019	1.00	ug/L	10/03/19 14:16	10/10/19 17:53	SW6020
7439-95-4	Magnesium	42200		1	3.74	500	ug/L	10/03/19 14:16	10/10/19 17:53	SW6020
7439-96-5	Manganese	213		1	0.073	1.00	ug/L	10/03/19 14:16	10/10/19 17:53	SW6020
7439-97-6	Mercury	0.14	J	1	0.043	0.20	ug/L	10/02/19 10:25	10/03/19 14:46	SW7470A
7440-02-0	Nickel	0.88	J	1	0.068	1.00	ug/L	10/03/19 14:16	10/10/19 17:53	SW6020
7440-09-7	Potassium	28900		1	19.9	500	ug/L	10/03/19 14:16	10/10/19 17:53	SW6020
7782-49-2	Selenium	5.00	U	1	3.30	5.00	ug/L	10/03/19 14:16	10/10/19 17:53	SW6020
7440-22-4	Silver	1.00	UN	1	0.30	1.00	ug/L	10/03/19 14:16	10/10/19 17:53	SW6020
7440-23-5	Sodium	372000		1	28.5	500	ug/L	10/03/19 14:16	10/10/19 17:53	SW6020
7440-28-0	Thallium	1.00	U	1	0.030	1.00	ug/L	10/03/19 14:16	10/10/19 17:53	SW6020
7440-62-2	Vanadium	1.68	J	1	0.070	5.00	ug/L	10/03/19 14:16	10/10/19 17:53	SW6020
7440-66-6	Zinc	10.6		1	0.56	2.00	ug/L	10/03/19 14:16	10/10/19 17:53	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-106I	SDG No.:	K5154
Lab Sample ID:	K5154-04	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	42.3		1	3.67	20.0	ug/L	10/03/19 14:16	10/10/19 17:57	SW6020
7440-36-0	Antimony	0.80	J	1	0.076	2.00	ug/L	10/03/19 14:16	10/10/19 17:57	SW6020
7440-38-2	Arsenic	5.72		1	0.12	1.00	ug/L	10/03/19 14:16	10/10/19 17:57	SW6020
7440-39-3	Barium	83.6		1	0.18	10.0	ug/L	10/03/19 14:16	10/10/19 17:57	SW6020
7440-41-7	Beryllium	1.00	U	1	0.068	1.00	ug/L	10/03/19 14:16	10/10/19 17:57	SW6020
7440-43-9	Cadmium	1.00	U	1	0.26	1.00	ug/L	10/03/19 14:16	10/10/19 17:57	SW6020
7440-70-2	Calcium	14500		1	14.3	500	ug/L	10/03/19 14:16	10/10/19 17:57	SW6020
7440-47-3	Chromium	1.20	J	1	0.075	2.00	ug/L	10/03/19 14:16	10/10/19 17:57	SW6020
7440-48-4	Cobalt	0.20	J	1	0.053	1.00	ug/L	10/03/19 14:16	10/10/19 17:57	SW6020
7440-50-8	Copper	12.5		1	0.49	2.00	ug/L	10/03/19 14:16	10/10/19 17:57	SW6020
7439-89-6	Iron	707		1	2.69	50.0	ug/L	10/03/19 14:16	10/10/19 17:57	SW6020
7439-92-1	Lead	3.19	*	1	0.019	1.00	ug/L	10/03/19 14:16	10/10/19 17:57	SW6020
7439-95-4	Magnesium	42100		1	3.74	500	ug/L	10/03/19 14:16	10/10/19 17:57	SW6020
7439-96-5	Manganese	33.6		1	0.073	1.00	ug/L	10/03/19 14:16	10/10/19 17:57	SW6020
7439-97-6	Mercury	0.13	J	1	0.043	0.20	ug/L	10/02/19 10:25	10/03/19 14:48	SW7470A
7440-02-0	Nickel	0.73	J	1	0.068	1.00	ug/L	10/03/19 14:16	10/10/19 17:57	SW6020
7440-09-7	Potassium	37600		1	19.9	500	ug/L	10/03/19 14:16	10/10/19 17:57	SW6020
7782-49-2	Selenium	6.77		1	3.30	5.00	ug/L	10/03/19 14:16	10/10/19 17:57	SW6020
7440-22-4	Silver	1.00	UN	1	0.30	1.00	ug/L	10/03/19 14:16	10/10/19 17:57	SW6020
7440-23-5	Sodium	757000	D	25	713	12500	ug/L	10/03/19 14:16	10/16/19 13:54	SW6020
7440-28-0	Thallium	1.00	U	1	0.030	1.00	ug/L	10/03/19 14:16	10/10/19 17:57	SW6020
7440-62-2	Vanadium	5.53		1	0.070	5.00	ug/L	10/03/19 14:16	10/10/19 17:57	SW6020
7440-66-6	Zinc	94.8		1	0.56	2.00	ug/L	10/03/19 14:16	10/10/19 17:57	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
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 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N = Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-106D	SDG No.:	K5154
Lab Sample ID:	K5154-05	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	352		1	3.67	20.0	ug/L	10/03/19 14:16	10/10/19 18:01	SW6020
7440-36-0	Antimony	0.79	J	1	0.076	2.00	ug/L	10/03/19 14:16	10/10/19 18:01	SW6020
7440-38-2	Arsenic	12.6		1	0.12	1.00	ug/L	10/03/19 14:16	10/10/19 18:01	SW6020
7440-39-3	Barium	48.7		1	0.18	10.0	ug/L	10/03/19 14:16	10/10/19 18:01	SW6020
7440-41-7	Beryllium	1.00	U	1	0.068	1.00	ug/L	10/03/19 14:16	10/10/19 18:01	SW6020
7440-43-9	Cadmium	1.00	U	1	0.26	1.00	ug/L	10/03/19 14:16	10/10/19 18:01	SW6020
7440-70-2	Calcium	41500		1	14.3	500	ug/L	10/03/19 14:16	10/10/19 18:01	SW6020
7440-47-3	Chromium	1.97	J	1	0.075	2.00	ug/L	10/03/19 14:16	10/10/19 18:01	SW6020
7440-48-4	Cobalt	0.98	J	1	0.053	1.00	ug/L	10/03/19 14:16	10/10/19 18:01	SW6020
7440-50-8	Copper	9.29		1	0.49	2.00	ug/L	10/03/19 14:16	10/10/19 18:01	SW6020
7439-89-6	Iron	3840		1	2.69	50.0	ug/L	10/03/19 14:16	10/10/19 18:01	SW6020
7439-92-1	Lead	1.70	*	1	0.019	1.00	ug/L	10/03/19 14:16	10/10/19 18:01	SW6020
7439-95-4	Magnesium	133000		1	3.74	500	ug/L	10/03/19 14:16	10/10/19 18:01	SW6020
7439-96-5	Manganese	1790		1	0.073	1.00	ug/L	10/03/19 14:16	10/10/19 18:01	SW6020
7439-97-6	Mercury	0.12	J	1	0.043	0.20	ug/L	10/02/19 10:25	10/03/19 14:50	SW7470A
7440-02-0	Nickel	1.64		1	0.068	1.00	ug/L	10/03/19 14:16	10/10/19 18:01	SW6020
7440-09-7	Potassium	77800		1	19.9	500	ug/L	10/03/19 14:16	10/10/19 18:01	SW6020
7782-49-2	Selenium	16.7		1	3.30	5.00	ug/L	10/03/19 14:16	10/10/19 18:01	SW6020
7440-22-4	Silver	1.00	UN	1	0.30	1.00	ug/L	10/03/19 14:16	10/10/19 18:01	SW6020
7440-23-5	Sodium	2040000	D	10	285	5000	ug/L	10/03/19 14:16	10/10/19 19:58	SW6020
7440-28-0	Thallium	1.00	U	1	0.030	1.00	ug/L	10/03/19 14:16	10/10/19 18:01	SW6020
7440-62-2	Vanadium	1.41	J	1	0.070	5.00	ug/L	10/03/19 14:16	10/10/19 18:01	SW6020
7440-66-6	Zinc	19.2		1	0.56	2.00	ug/L	10/03/19 14:16	10/10/19 18:01	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-107	SDG No.:	K5154
Lab Sample ID:	K5154-06	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	304		1	3.67	20.0	ug/L	10/03/19 14:16	10/10/19 18:04	SW6020
7440-36-0	Antimony	0.72	J	1	0.076	2.00	ug/L	10/03/19 14:16	10/10/19 18:04	SW6020
7440-38-2	Arsenic	12.6		1	0.12	1.00	ug/L	10/03/19 14:16	10/10/19 18:04	SW6020
7440-39-3	Barium	48.0		1	0.18	10.0	ug/L	10/03/19 14:16	10/10/19 18:04	SW6020
7440-41-7	Beryllium	1.00	U	1	0.068	1.00	ug/L	10/03/19 14:16	10/10/19 18:04	SW6020
7440-43-9	Cadmium	1.00	U	1	0.26	1.00	ug/L	10/03/19 14:16	10/10/19 18:04	SW6020
7440-70-2	Calcium	40700		1	14.3	500	ug/L	10/03/19 14:16	10/10/19 18:04	SW6020
7440-47-3	Chromium	1.86	J	1	0.075	2.00	ug/L	10/03/19 14:16	10/10/19 18:04	SW6020
7440-48-4	Cobalt	0.95	J	1	0.053	1.00	ug/L	10/03/19 14:16	10/10/19 18:04	SW6020
7440-50-8	Copper	8.82		1	0.49	2.00	ug/L	10/03/19 14:16	10/10/19 18:04	SW6020
7439-89-6	Iron	3720		1	2.69	50.0	ug/L	10/03/19 14:16	10/10/19 18:04	SW6020
7439-92-1	Lead	1.52	*	1	0.019	1.00	ug/L	10/03/19 14:16	10/10/19 18:04	SW6020
7439-95-4	Magnesium	136000		1	3.74	500	ug/L	10/03/19 14:16	10/10/19 18:04	SW6020
7439-96-5	Manganese	1790		1	0.073	1.00	ug/L	10/03/19 14:16	10/10/19 18:04	SW6020
7439-97-6	Mercury	0.12	J	1	0.043	0.20	ug/L	10/02/19 10:25	10/03/19 14:52	SW7470A
7440-02-0	Nickel	1.65		1	0.068	1.00	ug/L	10/03/19 14:16	10/10/19 18:04	SW6020
7440-09-7	Potassium	79600		1	19.9	500	ug/L	10/03/19 14:16	10/10/19 18:04	SW6020
7782-49-2	Selenium	18.6		1	3.30	5.00	ug/L	10/03/19 14:16	10/10/19 18:04	SW6020
7440-22-4	Silver	1.00	UN	1	0.30	1.00	ug/L	10/03/19 14:16	10/10/19 18:04	SW6020
7440-23-5	Sodium	2010000	D	10	285	5000	ug/L	10/03/19 14:16	10/10/19 20:01	SW6020
7440-28-0	Thallium	1.00	U	1	0.030	1.00	ug/L	10/03/19 14:16	10/10/19 18:04	SW6020
7440-62-2	Vanadium	1.30	J	1	0.070	5.00	ug/L	10/03/19 14:16	10/10/19 18:04	SW6020
7440-66-6	Zinc	19.9		1	0.56	2.00	ug/L	10/03/19 14:16	10/10/19 18:04	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

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Q = indicates LCS control criteria did not meet requirements

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* = indicates the duplicate analysis is not within control limits.

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N = Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103S	SDG No.:	K5154
Lab Sample ID:	K5154-10	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	137		1	3.67	20.0	ug/L	10/03/19 14:16	10/10/19 18:08	SW6020
7440-36-0	Antimony	0.68	J	1	0.076	2.00	ug/L	10/03/19 14:16	10/10/19 18:08	SW6020
7440-38-2	Arsenic	1.08		1	0.12	1.00	ug/L	10/03/19 14:16	10/10/19 18:08	SW6020
7440-39-3	Barium	278		1	0.18	10.0	ug/L	10/03/19 14:16	10/10/19 18:08	SW6020
7440-41-7	Beryllium	1.00	U	1	0.068	1.00	ug/L	10/03/19 14:16	10/10/19 18:08	SW6020
7440-43-9	Cadmium	1.00	U	1	0.26	1.00	ug/L	10/03/19 14:16	10/10/19 18:08	SW6020
7440-70-2	Calcium	101000		1	14.3	500	ug/L	10/03/19 14:16	10/10/19 18:08	SW6020
7440-47-3	Chromium	1.62	J	1	0.075	2.00	ug/L	10/03/19 14:16	10/10/19 18:08	SW6020
7440-48-4	Cobalt	0.45	J	1	0.053	1.00	ug/L	10/03/19 14:16	10/10/19 18:08	SW6020
7440-50-8	Copper	17.8		1	0.49	2.00	ug/L	10/03/19 14:16	10/10/19 18:08	SW6020
7439-89-6	Iron	2910		1	2.69	50.0	ug/L	10/03/19 14:16	10/10/19 18:08	SW6020
7439-92-1	Lead	5.31	*	1	0.019	1.00	ug/L	10/03/19 14:16	10/10/19 18:08	SW6020
7439-95-4	Magnesium	160000		1	3.74	500	ug/L	10/03/19 14:16	10/10/19 18:08	SW6020
7439-96-5	Manganese	236		1	0.073	1.00	ug/L	10/03/19 14:16	10/10/19 18:08	SW6020
7439-97-6	Mercury	0.20	U	1	0.043	0.20	ug/L	10/02/19 10:25	10/03/19 14:54	SW7470A
7440-02-0	Nickel	1.57		1	0.068	1.00	ug/L	10/03/19 14:16	10/10/19 18:08	SW6020
7440-09-7	Potassium	82000		1	19.9	500	ug/L	10/03/19 14:16	10/10/19 18:08	SW6020
7782-49-2	Selenium	21.7		1	3.30	5.00	ug/L	10/03/19 14:16	10/10/19 18:08	SW6020
7440-22-4	Silver	1.00	UN	1	0.30	1.00	ug/L	10/03/19 14:16	10/10/19 18:08	SW6020
7440-23-5	Sodium	1850000	D	25	713	12500	ug/L	10/03/19 14:16	10/16/19 13:58	SW6020
7440-28-0	Thallium	1.00	U	1	0.030	1.00	ug/L	10/03/19 14:16	10/10/19 18:08	SW6020
7440-62-2	Vanadium	3.93	J	1	0.070	5.00	ug/L	10/03/19 14:16	10/10/19 18:08	SW6020
7440-66-6	Zinc	20.8		1	0.56	2.00	ug/L	10/03/19 14:16	10/10/19 18:08	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N = Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-1031	SDG No.:	K5154
Lab Sample ID:	K5154-11	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	18.7	J	1	3.67	20.0	ug/L	10/03/19 14:16	10/10/19 18:11	SW6020
7440-36-0	Antimony	0.64	J	1	0.076	2.00	ug/L	10/03/19 14:16	10/10/19 18:11	SW6020
7440-38-2	Arsenic	8.54		1	0.12	1.00	ug/L	10/03/19 14:16	10/10/19 18:11	SW6020
7440-39-3	Barium	146		1	0.18	10.0	ug/L	10/03/19 14:16	10/10/19 18:11	SW6020
7440-41-7	Beryllium	1.00	U	1	0.068	1.00	ug/L	10/03/19 14:16	10/10/19 18:11	SW6020
7440-43-9	Cadmium	1.00	U	1	0.26	1.00	ug/L	10/03/19 14:16	10/10/19 18:11	SW6020
7440-70-2	Calcium	45300		1	14.3	500	ug/L	10/03/19 14:16	10/10/19 18:11	SW6020
7440-47-3	Chromium	1.17	J	1	0.075	2.00	ug/L	10/03/19 14:16	10/10/19 18:11	SW6020
7440-48-4	Cobalt	0.37	J	1	0.053	1.00	ug/L	10/03/19 14:16	10/10/19 18:11	SW6020
7440-50-8	Copper	7.25		1	0.49	2.00	ug/L	10/03/19 14:16	10/10/19 18:11	SW6020
7439-89-6	Iron	2090		1	2.69	50.0	ug/L	10/03/19 14:16	10/10/19 18:11	SW6020
7439-92-1	Lead	1.71	*	1	0.019	1.00	ug/L	10/03/19 14:16	10/10/19 18:11	SW6020
7439-95-4	Magnesium	62900		1	3.74	500	ug/L	10/03/19 14:16	10/10/19 18:11	SW6020
7439-96-5	Manganese	844		1	0.073	1.00	ug/L	10/03/19 14:16	10/10/19 18:11	SW6020
7439-97-6	Mercury	0.20	U	1	0.043	0.20	ug/L	10/02/19 10:25	10/03/19 15:01	SW7470A
7440-02-0	Nickel	0.58	J	1	0.068	1.00	ug/L	10/03/19 14:16	10/10/19 18:11	SW6020
7440-09-7	Potassium	28600		1	19.9	500	ug/L	10/03/19 14:16	10/10/19 18:11	SW6020
7782-49-2	Selenium	3.87	J	1	3.30	5.00	ug/L	10/03/19 14:16	10/10/19 18:11	SW6020
7440-22-4	Silver	1.00	UN	1	0.30	1.00	ug/L	10/03/19 14:16	10/10/19 18:11	SW6020
7440-23-5	Sodium	267000		1	28.5	500	ug/L	10/03/19 14:16	10/10/19 18:11	SW6020
7440-28-0	Thallium	1.00	U	1	0.030	1.00	ug/L	10/03/19 14:16	10/10/19 18:11	SW6020
7440-62-2	Vanadium	1.05	J	1	0.070	5.00	ug/L	10/03/19 14:16	10/10/19 18:11	SW6020
7440-66-6	Zinc	42.7		1	0.56	2.00	ug/L	10/03/19 14:16	10/10/19 18:11	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

U = Not Detected
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 OR = Over Range
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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103D	SDG No.:	K5154
Lab Sample ID:	K5154-14	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	50.9		1	3.67	20.0	ug/L	10/03/19 14:16	10/10/19 19:02	SW6020
7440-36-0	Antimony	0.79	J	1	0.076	2.00	ug/L	10/03/19 14:16	10/10/19 19:02	SW6020
7440-38-2	Arsenic	0.49	J	1	0.12	1.00	ug/L	10/03/19 14:16	10/10/19 19:02	SW6020
7440-39-3	Barium	12.9		1	0.18	10.0	ug/L	10/03/19 14:16	10/10/19 19:02	SW6020
7440-41-7	Beryllium	0.11	J	1	0.068	1.00	ug/L	10/03/19 14:16	10/10/19 19:02	SW6020
7440-43-9	Cadmium	1.00	U	1	0.26	1.00	ug/L	10/03/19 14:16	10/10/19 19:02	SW6020
7440-70-2	Calcium	7710		1	14.3	500	ug/L	10/03/19 14:16	10/10/19 19:02	SW6020
7440-47-3	Chromium	1.11	J	1	0.075	2.00	ug/L	10/03/19 14:16	10/10/19 19:02	SW6020
7440-48-4	Cobalt	0.38	J	1	0.053	1.00	ug/L	10/03/19 14:16	10/10/19 19:02	SW6020
7440-50-8	Copper	19.2		1	0.49	2.00	ug/L	10/03/19 14:16	10/10/19 19:02	SW6020
7439-89-6	Iron	4040		1	2.69	50.0	ug/L	10/03/19 14:16	10/10/19 19:02	SW6020
7439-92-1	Lead	4.85	*	1	0.019	1.00	ug/L	10/03/19 14:16	10/10/19 19:02	SW6020
7439-95-4	Magnesium	1770		1	3.74	500	ug/L	10/03/19 14:16	10/10/19 19:02	SW6020
7439-96-5	Manganese	175		1	0.073	1.00	ug/L	10/03/19 14:16	10/10/19 19:02	SW6020
7439-97-6	Mercury	0.20	U	1	0.043	0.20	ug/L	10/02/19 10:25	10/03/19 15:09	SW7470A
7440-02-0	Nickel	1.92		1	0.068	1.00	ug/L	10/03/19 14:16	10/10/19 19:02	SW6020
7440-09-7	Potassium	18800		1	19.9	500	ug/L	10/03/19 14:16	10/10/19 19:02	SW6020
7782-49-2	Selenium	5.00	U	1	3.30	5.00	ug/L	10/03/19 14:16	10/10/19 19:02	SW6020
7440-22-4	Silver	1.00	UN	1	0.30	1.00	ug/L	10/03/19 14:16	10/10/19 19:02	SW6020
7440-23-5	Sodium	10300		1	28.5	500	ug/L	10/03/19 14:16	10/10/19 19:02	SW6020
7440-28-0	Thallium	0.24	J	1	0.030	1.00	ug/L	10/03/19 14:16	10/10/19 19:02	SW6020
7440-62-2	Vanadium	0.58	J	1	0.070	5.00	ug/L	10/03/19 14:16	10/10/19 19:02	SW6020
7440-66-6	Zinc	36.2		1	0.56	2.00	ug/L	10/03/19 14:16	10/10/19 19:02	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-105S	SDG No.:	K5154
Lab Sample ID:	K5154-15	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	134		1	3.67	20.0	ug/L	10/03/19 14:16	10/10/19 19:06	SW6020
7440-36-0	Antimony	1.10	J	1	0.076	2.00	ug/L	10/03/19 14:16	10/10/19 19:06	SW6020
7440-38-2	Arsenic	1.89		1	0.12	1.00	ug/L	10/03/19 14:16	10/10/19 19:06	SW6020
7440-39-3	Barium	116		1	0.18	10.0	ug/L	10/03/19 14:16	10/10/19 19:06	SW6020
7440-41-7	Beryllium	0.070	J	1	0.068	1.00	ug/L	10/03/19 14:16	10/10/19 19:06	SW6020
7440-43-9	Cadmium	1.00	U	1	0.26	1.00	ug/L	10/03/19 14:16	10/10/19 19:06	SW6020
7440-70-2	Calcium	88200		1	14.3	500	ug/L	10/03/19 14:16	10/10/19 19:06	SW6020
7440-47-3	Chromium	2.56		1	0.075	2.00	ug/L	10/03/19 14:16	10/10/19 19:06	SW6020
7440-48-4	Cobalt	0.54	J	1	0.053	1.00	ug/L	10/03/19 14:16	10/10/19 19:06	SW6020
7440-50-8	Copper	30.1		1	0.49	2.00	ug/L	10/03/19 14:16	10/10/19 19:06	SW6020
7439-89-6	Iron	10500		1	2.69	50.0	ug/L	10/03/19 14:16	10/10/19 19:06	SW6020
7439-92-1	Lead	6.10	*	1	0.019	1.00	ug/L	10/03/19 14:16	10/10/19 19:06	SW6020
7439-95-4	Magnesium	46800		1	3.74	500	ug/L	10/03/19 14:16	10/10/19 19:06	SW6020
7439-96-5	Manganese	200		1	0.073	1.00	ug/L	10/03/19 14:16	10/10/19 19:06	SW6020
7439-97-6	Mercury	0.20	U	1	0.043	0.20	ug/L	10/02/19 10:25	10/03/19 15:11	SW7470A
7440-02-0	Nickel	1.56		1	0.068	1.00	ug/L	10/03/19 14:16	10/10/19 19:06	SW6020
7440-09-7	Potassium	32100		1	19.9	500	ug/L	10/03/19 14:16	10/10/19 19:06	SW6020
7782-49-2	Selenium	5.00	U	1	3.30	5.00	ug/L	10/03/19 14:16	10/10/19 19:06	SW6020
7440-22-4	Silver	1.00	UN	1	0.30	1.00	ug/L	10/03/19 14:16	10/10/19 19:06	SW6020
7440-23-5	Sodium	411000		1	28.5	500	ug/L	10/03/19 14:16	10/10/19 19:06	SW6020
7440-28-0	Thallium	0.10	J	1	0.030	1.00	ug/L	10/03/19 14:16	10/10/19 19:06	SW6020
7440-62-2	Vanadium	2.99	J	1	0.070	5.00	ug/L	10/03/19 14:16	10/10/19 19:06	SW6020
7440-66-6	Zinc	554		1	0.56	2.00	ug/L	10/03/19 14:16	10/10/19 19:06	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

U = Not Detected
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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-1051	SDG No.:	K5154
Lab Sample ID:	K5154-16	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	5.39	J	1	3.67	20.0	ug/L	10/03/19 14:16	10/10/19 19:09	SW6020
7440-36-0	Antimony	0.79	J	1	0.076	2.00	ug/L	10/03/19 14:16	10/10/19 19:09	SW6020
7440-38-2	Arsenic	8.71		1	0.12	1.00	ug/L	10/03/19 14:16	10/10/19 19:09	SW6020
7440-39-3	Barium	71.4		1	0.18	10.0	ug/L	10/03/19 14:16	10/10/19 19:09	SW6020
7440-41-7	Beryllium	1.00	U	1	0.068	1.00	ug/L	10/03/19 14:16	10/10/19 19:09	SW6020
7440-43-9	Cadmium	1.00	U	1	0.26	1.00	ug/L	10/03/19 14:16	10/10/19 19:09	SW6020
7440-70-2	Calcium	20500		1	14.3	500	ug/L	10/03/19 14:16	10/10/19 19:09	SW6020
7440-47-3	Chromium	0.77	J	1	0.075	2.00	ug/L	10/03/19 14:16	10/10/19 19:09	SW6020
7440-48-4	Cobalt	0.19	J	1	0.053	1.00	ug/L	10/03/19 14:16	10/10/19 19:09	SW6020
7440-50-8	Copper	4.31		1	0.49	2.00	ug/L	10/03/19 14:16	10/10/19 19:09	SW6020
7439-89-6	Iron	134		1	2.69	50.0	ug/L	10/03/19 14:16	10/10/19 19:09	SW6020
7439-92-1	Lead	0.43	J*	1	0.019	1.00	ug/L	10/03/19 14:16	10/10/19 19:09	SW6020
7439-95-4	Magnesium	38400		1	3.74	500	ug/L	10/03/19 14:16	10/10/19 19:09	SW6020
7439-96-5	Manganese	11.9		1	0.073	1.00	ug/L	10/03/19 14:16	10/10/19 19:09	SW6020
7439-97-6	Mercury	0.20	U	1	0.043	0.20	ug/L	10/02/19 10:25	10/03/19 15:14	SW7470A
7440-02-0	Nickel	0.30	J	1	0.068	1.00	ug/L	10/03/19 14:16	10/10/19 19:09	SW6020
7440-09-7	Potassium	31300		1	19.9	500	ug/L	10/03/19 14:16	10/10/19 19:09	SW6020
7782-49-2	Selenium	5.00	U	1	3.30	5.00	ug/L	10/03/19 14:16	10/10/19 19:09	SW6020
7440-22-4	Silver	1.00	UN	1	0.30	1.00	ug/L	10/03/19 14:16	10/10/19 19:09	SW6020
7440-23-5	Sodium	328000		1	28.5	500	ug/L	10/03/19 14:16	10/10/19 19:09	SW6020
7440-28-0	Thallium	0.030	J	1	0.030	1.00	ug/L	10/03/19 14:16	10/10/19 19:09	SW6020
7440-62-2	Vanadium	4.44	J	1	0.070	5.00	ug/L	10/03/19 14:16	10/10/19 19:09	SW6020
7440-66-6	Zinc	4.57		1	0.56	2.00	ug/L	10/03/19 14:16	10/10/19 19:09	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-105D	SDG No.:	K5154
Lab Sample ID:	K5154-17	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	22.4		1	3.67	20.0	ug/L	10/03/19 14:16	10/10/19 19:13	SW6020
7440-36-0	Antimony	1.83	J	1	0.076	2.00	ug/L	10/03/19 14:16	10/10/19 19:13	SW6020
7440-38-2	Arsenic	0.83	J	1	0.12	1.00	ug/L	10/03/19 14:16	10/10/19 19:13	SW6020
7440-39-3	Barium	7.29	J	1	0.18	10.0	ug/L	10/03/19 14:16	10/10/19 19:13	SW6020
7440-41-7	Beryllium	1.00	U	1	0.068	1.00	ug/L	10/03/19 14:16	10/10/19 19:13	SW6020
7440-43-9	Cadmium	1.00	U	1	0.26	1.00	ug/L	10/03/19 14:16	10/10/19 19:13	SW6020
7440-70-2	Calcium	4800		1	14.3	500	ug/L	10/03/19 14:16	10/10/19 19:13	SW6020
7440-47-3	Chromium	1.84	J	1	0.075	2.00	ug/L	10/03/19 14:16	10/10/19 19:13	SW6020
7440-48-4	Cobalt	0.29	J	1	0.053	1.00	ug/L	10/03/19 14:16	10/10/19 19:13	SW6020
7440-50-8	Copper	10.6		1	0.49	2.00	ug/L	10/03/19 14:16	10/10/19 19:13	SW6020
7439-89-6	Iron	1290		1	2.69	50.0	ug/L	10/03/19 14:16	10/10/19 19:13	SW6020
7439-92-1	Lead	2.12	*	1	0.019	1.00	ug/L	10/03/19 14:16	10/10/19 19:13	SW6020
7439-95-4	Magnesium	2540		1	3.74	500	ug/L	10/03/19 14:16	10/10/19 19:13	SW6020
7439-96-5	Manganese	23.2		1	0.073	1.00	ug/L	10/03/19 14:16	10/10/19 19:13	SW6020
7439-97-6	Mercury	0.20	U	1	0.043	0.20	ug/L	10/02/19 10:25	10/03/19 15:16	SW7470A
7440-02-0	Nickel	1.72		1	0.068	1.00	ug/L	10/03/19 14:16	10/10/19 19:13	SW6020
7440-09-7	Potassium	76600		1	19.9	500	ug/L	10/03/19 14:16	10/10/19 19:13	SW6020
7782-49-2	Selenium	5.00	U	1	3.30	5.00	ug/L	10/03/19 14:16	10/10/19 19:13	SW6020
7440-22-4	Silver	1.00	UN	1	0.30	1.00	ug/L	10/03/19 14:16	10/10/19 19:13	SW6020
7440-23-5	Sodium	34800		1	28.5	500	ug/L	10/03/19 14:16	10/10/19 19:13	SW6020
7440-28-0	Thallium	1.00	U	1	0.030	1.00	ug/L	10/03/19 14:16	10/10/19 19:13	SW6020
7440-62-2	Vanadium	2.27	J	1	0.070	5.00	ug/L	10/03/19 14:16	10/10/19 19:13	SW6020
7440-66-6	Zinc	144		1	0.56	2.00	ug/L	10/03/19 14:16	10/10/19 19:13	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-104I	SDG No.:	K5154
Lab Sample ID:	K5154-18	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	15.1	J	1	3.67	20.0	ug/L	10/03/19 14:16	10/10/19 19:16	SW6020
7440-36-0	Antimony	0.77	J	1	0.076	2.00	ug/L	10/03/19 14:16	10/10/19 19:16	SW6020
7440-38-2	Arsenic	11.2		1	0.12	1.00	ug/L	10/03/19 14:16	10/10/19 19:16	SW6020
7440-39-3	Barium	157		1	0.18	10.0	ug/L	10/03/19 14:16	10/10/19 19:16	SW6020
7440-41-7	Beryllium	1.00	U	1	0.068	1.00	ug/L	10/03/19 14:16	10/10/19 19:16	SW6020
7440-43-9	Cadmium	1.00	U	1	0.26	1.00	ug/L	10/03/19 14:16	10/10/19 19:16	SW6020
7440-70-2	Calcium	14700		1	14.3	500	ug/L	10/03/19 14:16	10/10/19 19:16	SW6020
7440-47-3	Chromium	0.61	J	1	0.075	2.00	ug/L	10/03/19 14:16	10/10/19 19:16	SW6020
7440-48-4	Cobalt	1.09		1	0.053	1.00	ug/L	10/03/19 14:16	10/10/19 19:16	SW6020
7440-50-8	Copper	3.94		1	0.49	2.00	ug/L	10/03/19 14:16	10/10/19 19:16	SW6020
7439-89-6	Iron	2540		1	2.69	50.0	ug/L	10/03/19 14:16	10/10/19 19:16	SW6020
7439-92-1	Lead	1.36	*	1	0.019	1.00	ug/L	10/03/19 14:16	10/10/19 19:16	SW6020
7439-95-4	Magnesium	32800		1	3.74	500	ug/L	10/03/19 14:16	10/10/19 19:16	SW6020
7439-96-5	Manganese	674		1	0.073	1.00	ug/L	10/03/19 14:16	10/10/19 19:16	SW6020
7439-97-6	Mercury	0.20	U	1	0.043	0.20	ug/L	10/02/19 10:25	10/03/19 15:18	SW7470A
7440-02-0	Nickel	0.85	J	1	0.068	1.00	ug/L	10/03/19 14:16	10/10/19 19:16	SW6020
7440-09-7	Potassium	36800		1	19.9	500	ug/L	10/03/19 14:16	10/10/19 19:16	SW6020
7782-49-2	Selenium	5.00	U	1	3.30	5.00	ug/L	10/03/19 14:16	10/10/19 19:16	SW6020
7440-22-4	Silver	1.00	UN	1	0.30	1.00	ug/L	10/03/19 14:16	10/10/19 19:16	SW6020
7440-23-5	Sodium	208000		1	28.5	500	ug/L	10/03/19 14:16	10/10/19 19:16	SW6020
7440-28-0	Thallium	1.00	U	1	0.030	1.00	ug/L	10/03/19 14:16	10/10/19 19:16	SW6020
7440-62-2	Vanadium	0.46	J	1	0.070	5.00	ug/L	10/03/19 14:16	10/10/19 19:16	SW6020
7440-66-6	Zinc	9.11		1	0.56	2.00	ug/L	10/03/19 14:16	10/10/19 19:16	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-104D	SDG No.:	K5154
Lab Sample ID:	K5154-19	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	108		1	3.67	20.0	ug/L	10/03/19 14:16	10/10/19 19:20	SW6020
7440-36-0	Antimony	0.87	J	1	0.076	2.00	ug/L	10/03/19 14:16	10/10/19 19:20	SW6020
7440-38-2	Arsenic	2.43		1	0.12	1.00	ug/L	10/03/19 14:16	10/10/19 19:20	SW6020
7440-39-3	Barium	85.5		1	0.18	10.0	ug/L	10/03/19 14:16	10/10/19 19:20	SW6020
7440-41-7	Beryllium	1.00	U	1	0.068	1.00	ug/L	10/03/19 14:16	10/10/19 19:20	SW6020
7440-43-9	Cadmium	1.00	U	1	0.26	1.00	ug/L	10/03/19 14:16	10/10/19 19:20	SW6020
7440-70-2	Calcium	154000		1	14.3	500	ug/L	10/03/19 14:16	10/10/19 19:20	SW6020
7440-47-3	Chromium	1.70	J	1	0.075	2.00	ug/L	10/03/19 14:16	10/10/19 19:20	SW6020
7440-48-4	Cobalt	6.26		1	0.053	1.00	ug/L	10/03/19 14:16	10/10/19 19:20	SW6020
7440-50-8	Copper	7.56		1	0.49	2.00	ug/L	10/03/19 14:16	10/10/19 19:20	SW6020
7439-89-6	Iron	5250		1	2.69	50.0	ug/L	10/03/19 14:16	10/10/19 19:20	SW6020
7439-92-1	Lead	2.00	JD*	5	0.096	5.00	ug/L	10/03/19 14:16	10/10/19 20:05	SW6020
7439-95-4	Magnesium	580000	D	5	18.7	2500	ug/L	10/03/19 14:16	10/10/19 20:05	SW6020
7439-96-5	Manganese	3680	D	5	0.37	5.00	ug/L	10/03/19 14:16	10/10/19 20:05	SW6020
7439-97-6	Mercury	0.20	U	1	0.043	0.20	ug/L	10/02/19 10:25	10/03/19 15:20	SW7470A
7440-02-0	Nickel	8.34		1	0.068	1.00	ug/L	10/03/19 14:16	10/10/19 19:20	SW6020
7440-09-7	Potassium	185000		1	19.9	500	ug/L	10/03/19 14:16	10/10/19 19:20	SW6020
7782-49-2	Selenium	32.1		1	3.30	5.00	ug/L	10/03/19 14:16	10/10/19 19:20	SW6020
7440-22-4	Silver	1.00	UN	1	0.30	1.00	ug/L	10/03/19 14:16	10/10/19 19:20	SW6020
7440-23-5	Sodium	6140000	D	50	1430	25000	ug/L	10/03/19 14:16	10/10/19 20:12	SW6020
7440-28-0	Thallium	5.00	UD	5	0.15	5.00	ug/L	10/03/19 14:16	10/10/19 20:05	SW6020
7440-62-2	Vanadium	0.78	J	1	0.070	5.00	ug/L	10/03/19 14:16	10/10/19 19:20	SW6020
7440-66-6	Zinc	111		1	0.56	2.00	ug/L	10/03/19 14:16	10/10/19 19:20	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-102S	SDG No.:	K5154
Lab Sample ID:	K5154-21	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	1980		1	3.67	20.0	ug/L	10/11/19 10:03	10/14/19 13:57	SW6020
7440-36-0	Antimony	9.33		1	0.076	2.00	ug/L	10/11/19 10:03	10/14/19 13:57	SW6020
7440-38-2	Arsenic	2.30		1	0.12	1.00	ug/L	10/11/19 10:03	10/14/19 13:57	SW6020
7440-39-3	Barium	89.1		1	0.18	10.0	ug/L	10/11/19 10:03	10/14/19 13:57	SW6020
7440-41-7	Beryllium	0.14	J	1	0.068	1.00	ug/L	10/11/19 10:03	10/14/19 13:57	SW6020
7440-43-9	Cadmium	0.34	J	1	0.26	1.00	ug/L	10/11/19 10:03	10/14/19 13:57	SW6020
7440-70-2	Calcium	21000		1	14.3	500	ug/L	10/11/19 10:03	10/14/19 13:57	SW6020
7440-47-3	Chromium	9.16		1	0.075	2.00	ug/L	10/11/19 10:03	10/14/19 13:57	SW6020
7440-48-4	Cobalt	1.46		1	0.053	1.00	ug/L	10/11/19 10:03	10/14/19 13:57	SW6020
7440-50-8	Copper	22.1		1	0.49	2.00	ug/L	10/11/19 10:03	10/14/19 13:57	SW6020
7439-89-6	Iron	2830		1	2.69	50.0	ug/L	10/11/19 10:03	10/14/19 13:57	SW6020
7439-92-1	Lead	7.69		1	0.019	1.00	ug/L	10/11/19 10:03	10/14/19 13:57	SW6020
7439-95-4	Magnesium	1010		1	3.74	500	ug/L	10/11/19 10:03	10/14/19 13:57	SW6020
7439-96-5	Manganese	72.4		1	0.073	1.00	ug/L	10/11/19 10:03	10/14/19 13:57	SW6020
7439-97-6	Mercury	0.20	U	1	0.043	0.20	ug/L	10/07/19 10:31	10/07/19 14:21	SW7470A
7440-02-0	Nickel	4.29		1	0.068	1.00	ug/L	10/11/19 10:03	10/14/19 13:57	SW6020
7440-09-7	Potassium	5130		1	19.9	500	ug/L	10/11/19 10:03	10/14/19 13:57	SW6020
7782-49-2	Selenium	5.00	U	1	3.30	5.00	ug/L	10/11/19 10:03	10/14/19 13:57	SW6020
7440-22-4	Silver	0.58	J	1	0.30	1.00	ug/L	10/11/19 10:03	10/14/19 13:57	SW6020
7440-23-5	Sodium	26100		1	28.5	500	ug/L	10/11/19 10:03	10/14/19 13:57	SW6020
7440-28-0	Thallium	1.90		1	0.030	1.00	ug/L	10/11/19 10:03	10/14/19 13:57	SW6020
7440-62-2	Vanadium	6.65		1	0.070	5.00	ug/L	10/11/19 10:03	10/14/19 13:57	SW6020
7440-66-6	Zinc	45.7		1	0.56	2.00	ug/L	10/11/19 10:03	10/14/19 13:57	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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OR = Over Range

N = Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-102I	SDG No.:	K5154
Lab Sample ID:	K5154-22	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	457	1	3.67		20.0	ug/L	10/11/19 10:03	10/14/19 14:01	SW6020
7440-36-0	Antimony	2.34	1	0.076		2.00	ug/L	10/11/19 10:03	10/14/19 14:01	SW6020
7440-38-2	Arsenic	1.03	1	0.12		1.00	ug/L	10/11/19 10:03	10/14/19 14:01	SW6020
7440-39-3	Barium	88.1	1	0.18		10.0	ug/L	10/11/19 10:03	10/14/19 14:01	SW6020
7440-41-7	Beryllium	1.00	U	1	0.068	1.00	ug/L	10/11/19 10:03	10/14/19 14:01	SW6020
7440-43-9	Cadmium	1.00	U	1	0.26	1.00	ug/L	10/11/19 10:03	10/14/19 14:01	SW6020
7440-70-2	Calcium	109000	1	14.3		500	ug/L	10/11/19 10:03	10/14/19 14:01	SW6020
7440-47-3	Chromium	7.01	1	0.075		2.00	ug/L	10/11/19 10:03	10/14/19 14:01	SW6020
7440-48-4	Cobalt	0.65	J	1	0.053	1.00	ug/L	10/11/19 10:03	10/14/19 14:01	SW6020
7440-50-8	Copper	14.4	1	0.49		2.00	ug/L	10/11/19 10:03	10/14/19 14:01	SW6020
7439-89-6	Iron	1250	1	2.69		50.0	ug/L	10/11/19 10:03	10/14/19 14:01	SW6020
7439-92-1	Lead	5.95	1	0.019		1.00	ug/L	10/11/19 10:03	10/14/19 14:01	SW6020
7439-95-4	Magnesium	25400	1	3.74		500	ug/L	10/11/19 10:03	10/14/19 14:01	SW6020
7439-96-5	Manganese	80.9	1	0.073		1.00	ug/L	10/11/19 10:03	10/14/19 14:01	SW6020
7439-97-6	Mercury	0.045	J	1	0.043	0.20	ug/L	10/07/19 10:31	10/07/19 14:34	SW7470A
7440-02-0	Nickel	2.46	1	0.068		1.00	ug/L	10/11/19 10:03	10/14/19 14:01	SW6020
7440-09-7	Potassium	5530	1	19.9		500	ug/L	10/11/19 10:03	10/14/19 14:01	SW6020
7782-49-2	Selenium	5.00	U	1	3.30	5.00	ug/L	10/11/19 10:03	10/14/19 14:01	SW6020
7440-22-4	Silver	1.00	U	1	0.30	1.00	ug/L	10/11/19 10:03	10/14/19 14:01	SW6020
7440-23-5	Sodium	97000	1	28.5		500	ug/L	10/11/19 10:03	10/14/19 14:01	SW6020
7440-28-0	Thallium	0.27	J	1	0.030	1.00	ug/L	10/11/19 10:03	10/14/19 14:01	SW6020
7440-62-2	Vanadium	2.74	J	1	0.070	5.00	ug/L	10/11/19 10:03	10/14/19 14:01	SW6020
7440-66-6	Zinc	27.0	1	0.56		2.00	ug/L	10/11/19 10:03	10/14/19 14:01	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

U = Not Detected
 LOQ = Limit of Quantitation
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 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
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 E = Indicates the reported value is estimated because of the presence of interference.
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 N = Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-102D	SDG No.:	K5154
Lab Sample ID:	K5154-23	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	1140		1	3.67	20.0	ug/L	10/11/19 10:03	10/14/19 14:26	SW6020
7440-36-0	Antimony	2.48		1	0.076	2.00	ug/L	10/11/19 10:03	10/14/19 14:26	SW6020
7440-38-2	Arsenic	5.28		1	0.12	1.00	ug/L	10/11/19 10:03	10/14/19 14:26	SW6020
7440-39-3	Barium	21.3		1	0.18	10.0	ug/L	10/11/19 10:03	10/14/19 14:26	SW6020
7440-41-7	Beryllium	0.10	J	1	0.068	1.00	ug/L	10/11/19 10:03	10/14/19 14:26	SW6020
7440-43-9	Cadmium	1.00	U	1	0.26	1.00	ug/L	10/11/19 10:03	10/14/19 14:26	SW6020
7440-70-2	Calcium	7780		1	14.3	500	ug/L	10/11/19 10:03	10/14/19 14:26	SW6020
7440-47-3	Chromium	8.07		1	0.075	2.00	ug/L	10/11/19 10:03	10/14/19 14:26	SW6020
7440-48-4	Cobalt	1.39		1	0.053	1.00	ug/L	10/11/19 10:03	10/14/19 14:26	SW6020
7440-50-8	Copper	19.6		1	0.49	2.00	ug/L	10/11/19 10:03	10/14/19 14:26	SW6020
7439-89-6	Iron	2340		1	2.69	50.0	ug/L	10/11/19 10:03	10/14/19 14:26	SW6020
7439-92-1	Lead	9.15		1	0.019	1.00	ug/L	10/11/19 10:03	10/14/19 14:26	SW6020
7439-95-4	Magnesium	3570		1	3.74	500	ug/L	10/11/19 10:03	10/14/19 14:26	SW6020
7439-96-5	Manganese	112		1	0.073	1.00	ug/L	10/11/19 10:03	10/14/19 14:26	SW6020
7439-97-6	Mercury	0.077	J	1	0.043	0.20	ug/L	10/07/19 10:31	10/07/19 14:36	SW7470A
7440-02-0	Nickel	3.72		1	0.068	1.00	ug/L	10/11/19 10:03	10/14/19 14:26	SW6020
7440-09-7	Potassium	6370		1	19.9	500	ug/L	10/11/19 10:03	10/14/19 14:26	SW6020
7782-49-2	Selenium	5.00	U	1	3.30	5.00	ug/L	10/11/19 10:03	10/14/19 14:26	SW6020
7440-22-4	Silver	0.60	J	1	0.30	1.00	ug/L	10/11/19 10:03	10/14/19 14:26	SW6020
7440-23-5	Sodium	362000		1	28.5	500	ug/L	10/11/19 10:03	10/14/19 14:26	SW6020
7440-28-0	Thallium	0.48	J	1	0.030	1.00	ug/L	10/11/19 10:03	10/14/19 14:26	SW6020
7440-62-2	Vanadium	4.72	J	1	0.070	5.00	ug/L	10/11/19 10:03	10/14/19 14:26	SW6020
7440-66-6	Zinc	81.2		1	0.56	2.00	ug/L	10/11/19 10:03	10/14/19 14:26	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

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N = Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-101S	SDG No.:	K5154
Lab Sample ID:	K5154-24	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	156		1	3.67	20.0	ug/L	10/11/19 10:03	10/14/19 14:30	SW6020
7440-36-0	Antimony	3.00		1	0.076	2.00	ug/L	10/11/19 10:03	10/14/19 14:30	SW6020
7440-38-2	Arsenic	2.07		1	0.12	1.00	ug/L	10/11/19 10:03	10/14/19 14:30	SW6020
7440-39-3	Barium	81.6		1	0.18	10.0	ug/L	10/11/19 10:03	10/14/19 14:30	SW6020
7440-41-7	Beryllium	1.00	U	1	0.068	1.00	ug/L	10/11/19 10:03	10/14/19 14:30	SW6020
7440-43-9	Cadmium	1.00	U	1	0.26	1.00	ug/L	10/11/19 10:03	10/14/19 14:30	SW6020
7440-70-2	Calcium	74500		1	14.3	500	ug/L	10/11/19 10:03	10/14/19 14:30	SW6020
7440-47-3	Chromium	2.50		1	0.075	2.00	ug/L	10/11/19 10:03	10/14/19 14:30	SW6020
7440-48-4	Cobalt	1.77		1	0.053	1.00	ug/L	10/11/19 10:03	10/14/19 14:30	SW6020
7440-50-8	Copper	11.6		1	0.49	2.00	ug/L	10/11/19 10:03	10/14/19 14:30	SW6020
7439-89-6	Iron	454		1	2.69	50.0	ug/L	10/11/19 10:03	10/14/19 14:30	SW6020
7439-92-1	Lead	5.06		1	0.019	1.00	ug/L	10/11/19 10:03	10/14/19 14:30	SW6020
7439-95-4	Magnesium	25300		1	3.74	500	ug/L	10/11/19 10:03	10/14/19 14:30	SW6020
7439-96-5	Manganese	96.1		1	0.073	1.00	ug/L	10/11/19 10:03	10/14/19 14:30	SW6020
7439-97-6	Mercury	0.055	J	1	0.043	0.20	ug/L	10/07/19 10:31	10/07/19 14:38	SW7470A
7440-02-0	Nickel	1.92		1	0.068	1.00	ug/L	10/11/19 10:03	10/14/19 14:30	SW6020
7440-09-7	Potassium	4820		1	19.9	500	ug/L	10/11/19 10:03	10/14/19 14:30	SW6020
7782-49-2	Selenium	3.34	J	1	3.30	5.00	ug/L	10/11/19 10:03	10/14/19 14:30	SW6020
7440-22-4	Silver	1.00	U	1	0.30	1.00	ug/L	10/11/19 10:03	10/14/19 14:30	SW6020
7440-23-5	Sodium	127000		1	28.5	500	ug/L	10/11/19 10:03	10/14/19 14:30	SW6020
7440-28-0	Thallium	0.15	J	1	0.030	1.00	ug/L	10/11/19 10:03	10/14/19 14:30	SW6020
7440-62-2	Vanadium	2.17	J	1	0.070	5.00	ug/L	10/11/19 10:03	10/14/19 14:30	SW6020
7440-66-6	Zinc	38.1		1	0.56	2.00	ug/L	10/11/19 10:03	10/14/19 14:30	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-1011	SDG No.:	K5154
Lab Sample ID:	K5154-25	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	130		1	3.67	20.0	ug/L	10/11/19 10:03	10/14/19 14:33	SW6020
7440-36-0	Antimony	1.86	J	1	0.076	2.00	ug/L	10/11/19 10:03	10/14/19 14:33	SW6020
7440-38-2	Arsenic	1.30		1	0.12	1.00	ug/L	10/11/19 10:03	10/14/19 14:33	SW6020
7440-39-3	Barium	146		1	0.18	10.0	ug/L	10/11/19 10:03	10/14/19 14:33	SW6020
7440-41-7	Beryllium	1.00	U	1	0.068	1.00	ug/L	10/11/19 10:03	10/14/19 14:33	SW6020
7440-43-9	Cadmium	1.00	U	1	0.26	1.00	ug/L	10/11/19 10:03	10/14/19 14:33	SW6020
7440-70-2	Calcium	72700		1	14.3	500	ug/L	10/11/19 10:03	10/14/19 14:33	SW6020
7440-47-3	Chromium	4.31		1	0.075	2.00	ug/L	10/11/19 10:03	10/14/19 14:33	SW6020
7440-48-4	Cobalt	0.14	J	1	0.053	1.00	ug/L	10/11/19 10:03	10/14/19 14:33	SW6020
7440-50-8	Copper	7.28		1	0.49	2.00	ug/L	10/11/19 10:03	10/14/19 14:33	SW6020
7439-89-6	Iron	452		1	2.69	50.0	ug/L	10/11/19 10:03	10/14/19 14:33	SW6020
7439-92-1	Lead	3.80		1	0.019	1.00	ug/L	10/11/19 10:03	10/14/19 14:33	SW6020
7439-95-4	Magnesium	71900		1	3.74	500	ug/L	10/11/19 10:03	10/14/19 14:33	SW6020
7439-96-5	Manganese	5.80		1	0.073	1.00	ug/L	10/11/19 10:03	10/14/19 14:33	SW6020
7439-97-6	Mercury	0.20	U	1	0.043	0.20	ug/L	10/07/19 10:31	10/07/19 14:40	SW7470A
7440-02-0	Nickel	0.62	J	1	0.068	1.00	ug/L	10/11/19 10:03	10/14/19 14:33	SW6020
7440-09-7	Potassium	18400		1	19.9	500	ug/L	10/11/19 10:03	10/14/19 14:33	SW6020
7782-49-2	Selenium	5.00	U	1	3.30	5.00	ug/L	10/11/19 10:03	10/14/19 14:33	SW6020
7440-22-4	Silver	1.00	U	1	0.30	1.00	ug/L	10/11/19 10:03	10/14/19 14:33	SW6020
7440-23-5	Sodium	112000		1	28.5	500	ug/L	10/11/19 10:03	10/14/19 14:33	SW6020
7440-28-0	Thallium	0.070	J	1	0.030	1.00	ug/L	10/11/19 10:03	10/14/19 14:33	SW6020
7440-62-2	Vanadium	3.04	J	1	0.070	5.00	ug/L	10/11/19 10:03	10/14/19 14:33	SW6020
7440-66-6	Zinc	47.2		1	0.56	2.00	ug/L	10/11/19 10:03	10/14/19 14:33	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

U = Not Detected

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OR = Over Range

N = Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-101D	SDG No.:	K5154
Lab Sample ID:	K5154-26	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	219		1	3.67	20.0	ug/L	10/11/19 10:03	10/14/19 14:37	SW6020
7440-36-0	Antimony	1.57	J	1	0.076	2.00	ug/L	10/11/19 10:03	10/14/19 14:37	SW6020
7440-38-2	Arsenic	1.01		1	0.12	1.00	ug/L	10/11/19 10:03	10/14/19 14:37	SW6020
7440-39-3	Barium	70.9		1	0.18	10.0	ug/L	10/11/19 10:03	10/14/19 14:37	SW6020
7440-41-7	Beryllium	1.00	U	1	0.068	1.00	ug/L	10/11/19 10:03	10/14/19 14:37	SW6020
7440-43-9	Cadmium	1.00	U	1	0.26	1.00	ug/L	10/11/19 10:03	10/14/19 14:37	SW6020
7440-70-2	Calcium	57100		1	14.3	500	ug/L	10/11/19 10:03	10/14/19 14:37	SW6020
7440-47-3	Chromium	3.90		1	0.075	2.00	ug/L	10/11/19 10:03	10/14/19 14:37	SW6020
7440-48-4	Cobalt	0.65	J	1	0.053	1.00	ug/L	10/11/19 10:03	10/14/19 14:37	SW6020
7440-50-8	Copper	6.66		1	0.49	2.00	ug/L	10/11/19 10:03	10/14/19 14:37	SW6020
7439-89-6	Iron	580		1	2.69	50.0	ug/L	10/11/19 10:03	10/14/19 14:37	SW6020
7439-92-1	Lead	1.82		1	0.019	1.00	ug/L	10/11/19 10:03	10/14/19 14:37	SW6020
7439-95-4	Magnesium	33800		1	3.74	500	ug/L	10/11/19 10:03	10/14/19 14:37	SW6020
7439-96-5	Manganese	135		1	0.073	1.00	ug/L	10/11/19 10:03	10/14/19 14:37	SW6020
7439-97-6	Mercury	0.059	J	1	0.043	0.20	ug/L	10/07/19 10:31	10/07/19 14:42	SW7470A
7440-02-0	Nickel	1.78		1	0.068	1.00	ug/L	10/11/19 10:03	10/14/19 14:37	SW6020
7440-09-7	Potassium	16000		1	19.9	500	ug/L	10/11/19 10:03	10/14/19 14:37	SW6020
7782-49-2	Selenium	5.00	U	1	3.30	5.00	ug/L	10/11/19 10:03	10/14/19 14:37	SW6020
7440-22-4	Silver	1.00	U	1	0.30	1.00	ug/L	10/11/19 10:03	10/14/19 14:37	SW6020
7440-23-5	Sodium	294000		1	28.5	500	ug/L	10/11/19 10:03	10/14/19 14:37	SW6020
7440-28-0	Thallium	0.060	J	1	0.030	1.00	ug/L	10/11/19 10:03	10/14/19 14:37	SW6020
7440-62-2	Vanadium	2.26	J	1	0.070	5.00	ug/L	10/11/19 10:03	10/14/19 14:37	SW6020
7440-66-6	Zinc	47.9		1	0.56	2.00	ug/L	10/11/19 10:03	10/14/19 14:37	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

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METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client:	<u>TRC Companies, Inc.</u>	SDG No.:	<u>K5154</u>				
Contract:	<u>TRCE03</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>K5154</u>	SAS No.:	<u>K5154</u>
Initial Calibration Source:	<u>EPA</u>						
Continuing Calibration Source:	<u>PLASMA-PURE</u>						

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV40	Mercury	4.04	4.0	101	90 - 110	CV	10/03/2019	13:01	LB105464

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. **SDG No.:** K5154
Contract: TRCE03 **Lab Code:** CHEM **Case No.:** K5154 **SAS No.:** K5154
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV52	Mercury	4.95	5.0	99	90 - 110	CV	10/03/2019	13:06	LB105464
CCV53	Mercury	4.95	5.0	99	90 - 110	CV	10/03/2019	13:31	LB105464
CCV54	Mercury	4.93	5.0	99	90 - 110	CV	10/03/2019	13:57	LB105464
CCV55	Mercury	4.94	5.0	99	90 - 110	CV	10/03/2019	14:22	LB105464
CCV56	Mercury	4.91	5.0	98	90 - 110	CV	10/03/2019	14:57	LB105464
CCV57	Mercury	5.00	5.0	100	90 - 110	CV	10/03/2019	15:22	LB105464
CCV58	Mercury	4.93	5.0	99	90 - 110	CV	10/03/2019	15:48	LB105464
CCV59	Mercury	4.92	5.0	98	90 - 110	CV	10/03/2019	15:58	LB105464

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client:	<u>TRC Companies, Inc.</u>		SDG No.:	<u>K5154</u>	
Contract:	<u>TRCE03</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>K5154</u>
Initial Calibration Source:	<u>EPA</u>				
Continuing Calibration Source:	<u>PLASMA-PURE</u>				

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV42	Mercury	3.86	4.0	97	90 - 110	CV	10/07/2019	13:06	LB105539

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client:	<u>TRC Companies, Inc.</u>		SDG No.:	<u>K5154</u>	
Contract:	<u>TRCE03</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>K5154</u>
Initial Calibration Source:	<u>EPA</u>				
Continuing Calibration Source:	<u>PLASMA-PURE</u>				

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV64	Mercury	4.95	5.0	99	90 - 110	CV	10/07/2019	13:10	LB105539
CCV65	Mercury	4.89	5.0	98	90 - 110	CV	10/07/2019	13:35	LB105539
CCV66	Mercury	4.91	5.0	98	90 - 110	CV	10/07/2019	14:01	LB105539
CCV67	Mercury	4.89	5.0	98	90 - 110	CV	10/07/2019	14:27	LB105539
CCV68	Mercury	5.02	5.0	100	90 - 110	CV	10/07/2019	15:08	LB105539
CCV69	Mercury	4.99	5.0	100	90 - 110	CV	10/07/2019	15:29	LB105539

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. SDG No.: K5154

Contract: TRCE03 Lab Code: CHEM Case No.: K5154 SAS No.: K5154

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	498	504	99	90 - 110	P	10/10/2019	15:40	LB105633
	Antimony	203	199	102	90 - 110	P	10/10/2019	15:40	LB105633
	Arsenic	208	200	104	90 - 110	P	10/10/2019	15:40	LB105633
	Barium	104	99.0	105	90 - 110	P	10/10/2019	15:40	LB105633
	Beryllium	98.4	99.0	99	90 - 110	P	10/10/2019	15:40	LB105633
	Cadmium	107	99.0	108	90 - 110	P	10/10/2019	15:40	LB105633
	Calcium	2200	2005	110	90 - 110	P	10/10/2019	15:40	LB105633
	Chromium	99.2	98.0	101	90 - 110	P	10/10/2019	15:40	LB105633
	Cobalt	102	100	102	90 - 110	P	10/10/2019	15:40	LB105633
	Copper	102	98.0	104	90 - 110	P	10/10/2019	15:40	LB105633
	Iron	1100	1016	108	90 - 110	P	10/10/2019	15:40	LB105633
	Lead	190	200	95	90 - 110	P	10/10/2019	15:40	LB105633
	Magnesium	1320	1215	109	90 - 110	P	10/10/2019	15:40	LB105633
	Manganese	97.5	100	98	90 - 110	P	10/10/2019	15:40	LB105633
	Nickel	104	101	103	90 - 110	P	10/10/2019	15:40	LB105633
	Potassium	2050	2004	102	90 - 110	P	10/10/2019	15:40	LB105633
	Selenium	204	206	99	90 - 110	P	10/10/2019	15:40	LB105633
	Silver	97.6	100	98	90 - 110	P	10/10/2019	15:40	LB105633
	Sodium	2160	2019	107	90 - 110	P	10/10/2019	15:40	LB105633
	Thallium	195	206	95	90 - 110	P	10/10/2019	15:40	LB105633
	Vanadium	98.3	100	98	90 - 110	P	10/10/2019	15:40	LB105633
	Zinc	197	205	96	90 - 110	P	10/10/2019	15:40	LB105633

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. SDG No.: K5154

Contract: TRCE03 Lab Code: CHEM Case No.: K5154 SAS No.: K5154

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	20.6	20.0	103	80 - 120	P	10/10/2019	15:53	LB105633
	Antimony	2.11	2.0	106	80 - 120	P	10/10/2019	15:53	LB105633
	Arsenic	1.11	1.0	111	80 - 120	P	10/10/2019	15:53	LB105633
	Barium	10.5	10.0	105	80 - 120	P	10/10/2019	15:53	LB105633
	Beryllium	1.04	1.0	104	80 - 120	P	10/10/2019	15:53	LB105633
	Cadmium	1.08	1.0	108	80 - 120	P	10/10/2019	15:53	LB105633
	Calcium	499	500	100	80 - 120	P	10/10/2019	15:53	LB105633
	Chromium	2.10	2.0	105	80 - 120	P	10/10/2019	15:53	LB105633
	Cobalt	1.06	1.0	106	80 - 120	P	10/10/2019	15:53	LB105633
	Copper	2.06	2.0	103	80 - 120	P	10/10/2019	15:53	LB105633
	Iron	58.6	50.0	117	80 - 120	P	10/10/2019	15:53	LB105633
	Lead	0.97	1.0	97	80 - 120	P	10/10/2019	15:53	LB105633
	Magnesium	554	500	111	80 - 120	P	10/10/2019	15:53	LB105633
	Manganese	1.13	1.0	113	80 - 120	P	10/10/2019	15:53	LB105633
	Nickel	1.12	1.0	112	80 - 120	P	10/10/2019	15:53	LB105633
	Potassium	521	500	104	80 - 120	P	10/10/2019	15:53	LB105633
	Selenium	5.60	5.0	112	80 - 120	P	10/10/2019	15:53	LB105633
	Silver	1.11	1.0	111	80 - 120	P	10/10/2019	15:53	LB105633
	Sodium	531	500	106	80 - 120	P	10/10/2019	15:53	LB105633
	Thallium	0.97	1.0	97	80 - 120	P	10/10/2019	15:53	LB105633
	Vanadium	5.36	5.0	107	80 - 120	P	10/10/2019	15:53	LB105633
	Zinc	1.61	2.0	80	80 - 120	P	10/10/2019	15:53	LB105633

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. **SDG No.:** K5154
Contract: TRCE03 **Lab Code:** CHEM **Case No.:** K5154 **SAS No.:** K5154
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV35	Aluminum	50300	50000	100	90 - 110	P	10/10/2019	16:30	LB105633
	Antimony	476	500	95	90 - 110	P	10/10/2019	16:30	LB105633
	Arsenic	527	500	106	90 - 110	P	10/10/2019	16:30	LB105633
	Barium	2480	2500	99	90 - 110	P	10/10/2019	16:30	LB105633
	Beryllium	489	500	98	90 - 110	P	10/10/2019	16:30	LB105633
	Cadmium	459	500	92	90 - 110	P	10/10/2019	16:30	LB105633
	Calcium	238000	250000	95	90 - 110	P	10/10/2019	16:30	LB105633
	Chromium	496	500	99	90 - 110	P	10/10/2019	16:30	LB105633
	Cobalt	478	500	96	90 - 110	P	10/10/2019	16:30	LB105633
	Copper	952	1000	95	90 - 110	P	10/10/2019	16:30	LB105633
	Iron	124000	125000	99	90 - 110	P	10/10/2019	16:30	LB105633
	Lead	489	500	98	90 - 110	P	10/10/2019	16:30	LB105633
	Magnesium	247000	250000	99	90 - 110	P	10/10/2019	16:30	LB105633
	Manganese	955	1000	96	90 - 110	P	10/10/2019	16:30	LB105633
	Nickel	477	500	96	90 - 110	P	10/10/2019	16:30	LB105633
	Potassium	123000	125000	99	90 - 110	P	10/10/2019	16:30	LB105633
	Selenium	487	500	98	90 - 110	P	10/10/2019	16:30	LB105633
	Silver	456	500	91	90 - 110	P	10/10/2019	16:30	LB105633
	Sodium	248000	250000	99	90 - 110	P	10/10/2019	16:30	LB105633
	Thallium	496	500	99	90 - 110	P	10/10/2019	16:30	LB105633
	Vanadium	490	500	98	90 - 110	P	10/10/2019	16:30	LB105633
	Zinc	949	1000	95	90 - 110	P	10/10/2019	16:30	LB105633
CCV36	Aluminum	49700	50000	99	90 - 110	P	10/10/2019	17:25	LB105633
	Antimony	467	500	93	90 - 110	P	10/10/2019	17:25	LB105633
	Arsenic	510	500	102	90 - 110	P	10/10/2019	17:25	LB105633
	Barium	2390	2500	96	90 - 110	P	10/10/2019	17:25	LB105633
	Beryllium	473	500	94	90 - 110	P	10/10/2019	17:25	LB105633
	Cadmium	493	500	99	90 - 110	P	10/10/2019	17:25	LB105633
	Calcium	240000	250000	96	90 - 110	P	10/10/2019	17:25	LB105633
	Chromium	502	500	100	90 - 110	P	10/10/2019	17:25	LB105633
	Cobalt	491	500	98	90 - 110	P	10/10/2019	17:25	LB105633
	Copper	978	1000	98	90 - 110	P	10/10/2019	17:25	LB105633
	Iron	125000	125000	100	90 - 110	P	10/10/2019	17:25	LB105633
	Lead	493	500	99	90 - 110	P	10/10/2019	17:25	LB105633

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. **SDG No.:** K5154
Contract: TRCE03 **Lab Code:** CHEM **Case No.:** K5154 **SAS No.:** K5154
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV36	Magnesium	246000	250000	98	90 - 110	P	10/10/2019	17:25	LB105633
	Manganese	971	1000	97	90 - 110	P	10/10/2019	17:25	LB105633
	Nickel	490	500	98	90 - 110	P	10/10/2019	17:25	LB105633
	Potassium	121000	125000	97	90 - 110	P	10/10/2019	17:25	LB105633
	Selenium	530	500	106	90 - 110	P	10/10/2019	17:25	LB105633
	Silver	489	500	98	90 - 110	P	10/10/2019	17:25	LB105633
	Sodium	250000	250000	100	90 - 110	P	10/10/2019	17:25	LB105633
	Thallium	500	500	100	90 - 110	P	10/10/2019	17:25	LB105633
	Vanadium	494	500	99	90 - 110	P	10/10/2019	17:25	LB105633
	Zinc	980	1000	98	90 - 110	P	10/10/2019	17:25	LB105633
CCV37	Aluminum	49400	50000	99	90 - 110	P	10/10/2019	18:33	LB105633
	Antimony	529	500	106	90 - 110	P	10/10/2019	18:33	LB105633
	Arsenic	493	500	99	90 - 110	P	10/10/2019	18:33	LB105633
	Barium	2380	2500	95	90 - 110	P	10/10/2019	18:33	LB105633
	Beryllium	473	500	95	90 - 110	P	10/10/2019	18:33	LB105633
	Cadmium	508	500	102	90 - 110	P	10/10/2019	18:33	LB105633
	Calcium	236000	250000	94	90 - 110	P	10/10/2019	18:33	LB105633
	Chromium	501	500	100	90 - 110	P	10/10/2019	18:33	LB105633
	Cobalt	490	500	98	90 - 110	P	10/10/2019	18:33	LB105633
	Copper	1020	1000	102	90 - 110	P	10/10/2019	18:33	LB105633
	Iron	124000	125000	99	90 - 110	P	10/10/2019	18:33	LB105633
	Lead	490	500	98	90 - 110	P	10/10/2019	18:33	LB105633
	Magnesium	245000	250000	98	90 - 110	P	10/10/2019	18:33	LB105633
	Manganese	960	1000	96	90 - 110	P	10/10/2019	18:33	LB105633
	Nickel	490	500	98	90 - 110	P	10/10/2019	18:33	LB105633
	Potassium	120000	125000	96	90 - 110	P	10/10/2019	18:33	LB105633
	Selenium	529	500	106	90 - 110	P	10/10/2019	18:33	LB105633
	Silver	495	500	99	90 - 110	P	10/10/2019	18:33	LB105633
	Sodium	248000	250000	99	90 - 110	P	10/10/2019	18:33	LB105633
	Thallium	496	500	99	90 - 110	P	10/10/2019	18:33	LB105633
	Vanadium	493	500	99	90 - 110	P	10/10/2019	18:33	LB105633
	Zinc	1010	1000	101	90 - 110	P	10/10/2019	18:33	LB105633
CCV38	Aluminum	48500	50000	97	90 - 110	P	10/10/2019	19:37	LB105633
	Antimony	489	500	98	90 - 110	P	10/10/2019	19:37	LB105633

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. **SDG No.:** K5154
Contract: TRCE03 **Lab Code:** CHEM **Case No.:** K5154 **SAS No.:** K5154
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV38	Arsenic	523	500	104	90 - 110	P	10/10/2019	19:37	LB105633
	Barium	2440	2500	98	90 - 110	P	10/10/2019	19:37	LB105633
	Beryllium	485	500	97	90 - 110	P	10/10/2019	19:37	LB105633
	Cadmium	455	500	91	90 - 110	P	10/10/2019	19:37	LB105633
	Calcium	237000	250000	95	90 - 110	P	10/10/2019	19:37	LB105633
	Chromium	505	500	101	90 - 110	P	10/10/2019	19:37	LB105633
	Cobalt	489	500	98	90 - 110	P	10/10/2019	19:37	LB105633
	Copper	982	1000	98	90 - 110	P	10/10/2019	19:37	LB105633
	Iron	121000	125000	97	90 - 110	P	10/10/2019	19:37	LB105633
	Lead	487	500	97	90 - 110	P	10/10/2019	19:37	LB105633
	Magnesium	246000	250000	98	90 - 110	P	10/10/2019	19:37	LB105633
	Manganese	960	1000	96	90 - 110	P	10/10/2019	19:37	LB105633
	Nickel	488	500	98	90 - 110	P	10/10/2019	19:37	LB105633
	Potassium	120000	125000	96	90 - 110	P	10/10/2019	19:37	LB105633
	Selenium	486	500	97	90 - 110	P	10/10/2019	19:37	LB105633
	Silver	455	500	91	90 - 110	P	10/10/2019	19:37	LB105633
	Sodium	249000	250000	100	90 - 110	P	10/10/2019	19:37	LB105633
	Thallium	497	500	99	90 - 110	P	10/10/2019	19:37	LB105633
	Vanadium	495	500	99	90 - 110	P	10/10/2019	19:37	LB105633
	Zinc	965	1000	96	90 - 110	P	10/10/2019	19:37	LB105633
CCV39	Aluminum	49000	50000	98	90 - 110	P	10/10/2019	20:16	LB105633
	Antimony	500	500	100	90 - 110	P	10/10/2019	20:16	LB105633
	Arsenic	520	500	104	90 - 110	P	10/10/2019	20:16	LB105633
	Barium	2460	2500	98	90 - 110	P	10/10/2019	20:16	LB105633
	Beryllium	490	500	98	90 - 110	P	10/10/2019	20:16	LB105633
	Cadmium	464	500	93	90 - 110	P	10/10/2019	20:16	LB105633
	Calcium	238000	250000	95	90 - 110	P	10/10/2019	20:16	LB105633
	Chromium	499	500	100	90 - 110	P	10/10/2019	20:16	LB105633
	Cobalt	484	500	97	90 - 110	P	10/10/2019	20:16	LB105633
	Copper	972	1000	97	90 - 110	P	10/10/2019	20:16	LB105633
	Iron	120000	125000	96	90 - 110	P	10/10/2019	20:16	LB105633
	Lead	489	500	98	90 - 110	P	10/10/2019	20:16	LB105633
	Magnesium	246000	250000	98	90 - 110	P	10/10/2019	20:16	LB105633
	Manganese	954	1000	95	90 - 110	P	10/10/2019	20:16	LB105633

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. SDG No.: K5154

Contract: TRCE03 Lab Code: CHEM Case No.: K5154 SAS No.: K5154

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV39	Nickel	485	500	97	90 - 110	P	10/10/2019	20:16	LB105633
	Potassium	121000	125000	97	90 - 110	P	10/10/2019	20:16	LB105633
	Selenium	485	500	97	90 - 110	P	10/10/2019	20:16	LB105633
	Silver	470	500	94	90 - 110	P	10/10/2019	20:16	LB105633
	Sodium	248000	250000	99	90 - 110	P	10/10/2019	20:16	LB105633
	Thallium	501	500	100	90 - 110	P	10/10/2019	20:16	LB105633
	Vanadium	493	500	99	90 - 110	P	10/10/2019	20:16	LB105633
	Zinc	954	1000	95	90 - 110	P	10/10/2019	20:16	LB105633

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. SDG No.: K5154

Contract: TRCE03 Lab Code: CHEM Case No.: K5154 SAS No.: K5154

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	479	504	95	90 - 110	P	10/14/2019	11:51	LB105691
	Antimony	194	199	98	90 - 110	P	10/14/2019	11:51	LB105691
	Arsenic	206	200	103	90 - 110	P	10/14/2019	11:51	LB105691
	Barium	99.0	99.0	100	90 - 110	P	10/14/2019	11:51	LB105691
	Beryllium	94.9	99.0	96	90 - 110	P	10/14/2019	11:51	LB105691
	Cadmium	108	99.0	109	90 - 110	P	10/14/2019	11:51	LB105691
	Calcium	2150	2005	107	90 - 110	P	10/14/2019	11:51	LB105691
	Chromium	97.9	98.0	100	90 - 110	P	10/14/2019	11:51	LB105691
	Cobalt	101	100	101	90 - 110	P	10/14/2019	11:51	LB105691
	Copper	104	98.0	106	90 - 110	P	10/14/2019	11:51	LB105691
	Iron	1060	1016	105	90 - 110	P	10/14/2019	11:51	LB105691
	Lead	204	200	102	90 - 110	P	10/14/2019	11:51	LB105691
	Magnesium	1250	1215	103	90 - 110	P	10/14/2019	11:51	LB105691
	Manganese	95.5	100	96	90 - 110	P	10/14/2019	11:51	LB105691
	Nickel	103	101	102	90 - 110	P	10/14/2019	11:51	LB105691
	Potassium	1970	2004	98	90 - 110	P	10/14/2019	11:51	LB105691
	Selenium	200	206	97	90 - 110	P	10/14/2019	11:51	LB105691
	Silver	96.2	100	96	90 - 110	P	10/14/2019	11:51	LB105691
	Sodium	2050	2019	101	90 - 110	P	10/14/2019	11:51	LB105691
	Thallium	199	206	96	90 - 110	P	10/14/2019	11:51	LB105691
	Vanadium	95.5	100	96	90 - 110	P	10/14/2019	11:51	LB105691
	Zinc	210	205	102	90 - 110	P	10/14/2019	11:51	LB105691

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. SDG No.: K5154

Contract: TRCE03 Lab Code: CHEM Case No.: K5154 SAS No.: K5154

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	18.8	20.0	94	80 - 120	P	10/14/2019	12:18	LB105691
	Antimony	2.06	2.0	103	80 - 120	P	10/14/2019	12:18	LB105691
	Arsenic	1.17	1.0	117	80 - 120	P	10/14/2019	12:18	LB105691
	Barium	10.3	10.0	103	80 - 120	P	10/14/2019	12:18	LB105691
	Beryllium	0.99	1.0	99	80 - 120	P	10/14/2019	12:18	LB105691
	Cadmium	0.98	1.0	98	80 - 120	P	10/14/2019	12:18	LB105691
	Calcium	510	500	102	80 - 120	P	10/14/2019	12:18	LB105691
	Chromium	1.89	2.0	94	80 - 120	P	10/14/2019	12:18	LB105691
	Cobalt	1.03	1.0	103	80 - 120	P	10/14/2019	12:18	LB105691
	Copper	2.17	2.0	108	80 - 120	P	10/14/2019	12:18	LB105691
	Iron	56.4	50.0	113	80 - 120	P	10/14/2019	12:18	LB105691
	Lead	0.94	1.0	94	80 - 120	P	10/14/2019	12:18	LB105691
	Magnesium	551	500	110	80 - 120	P	10/14/2019	12:18	LB105691
	Manganese	1.00	1.0	100	80 - 120	P	10/14/2019	12:18	LB105691
	Nickel	1.05	1.0	105	80 - 120	P	10/14/2019	12:18	LB105691
	Potassium	520	500	104	80 - 120	P	10/14/2019	12:18	LB105691
	Selenium	5.77	5.0	115	80 - 120	P	10/14/2019	12:18	LB105691
	Silver	1.13	1.0	113	80 - 120	P	10/14/2019	12:18	LB105691
	Sodium	532	500	106	80 - 120	P	10/14/2019	12:18	LB105691
	Thallium	0.94	1.0	94	80 - 120	P	10/14/2019	12:18	LB105691
	Vanadium	5.25	5.0	105	80 - 120	P	10/14/2019	12:18	LB105691
	Zinc	2.26	2.0	113	80 - 120	P	10/14/2019	12:18	LB105691

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. **SDG No.:** K5154
Contract: TRCE03 **Lab Code:** CHEM **Case No.:** K5154 **SAS No.:** K5154
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV51	Aluminum	51600	50000	103	90 - 110	P	10/14/2019	12:33	LB105691
	Antimony	483	500	96	90 - 110	P	10/14/2019	12:33	LB105691
	Arsenic	520	500	104	90 - 110	P	10/14/2019	12:33	LB105691
	Barium	2500	2500	100	90 - 110	P	10/14/2019	12:33	LB105691
	Beryllium	488	500	98	90 - 110	P	10/14/2019	12:33	LB105691
	Cadmium	481	500	96	90 - 110	P	10/14/2019	12:33	LB105691
	Calcium	249000	250000	100	90 - 110	P	10/14/2019	12:33	LB105691
	Chromium	503	500	101	90 - 110	P	10/14/2019	12:33	LB105691
	Cobalt	486	500	97	90 - 110	P	10/14/2019	12:33	LB105691
	Copper	1010	1000	101	90 - 110	P	10/14/2019	12:33	LB105691
	Iron	125000	125000	100	90 - 110	P	10/14/2019	12:33	LB105691
	Lead	499	500	100	90 - 110	P	10/14/2019	12:33	LB105691
	Magnesium	253000	250000	101	90 - 110	P	10/14/2019	12:33	LB105691
	Manganese	962	1000	96	90 - 110	P	10/14/2019	12:33	LB105691
	Nickel	485	500	97	90 - 110	P	10/14/2019	12:33	LB105691
	Potassium	126000	125000	101	90 - 110	P	10/14/2019	12:33	LB105691
	Selenium	487	500	97	90 - 110	P	10/14/2019	12:33	LB105691
	Silver	471	500	94	90 - 110	P	10/14/2019	12:33	LB105691
	Sodium	254000	250000	102	90 - 110	P	10/14/2019	12:33	LB105691
	Thallium	504	500	101	90 - 110	P	10/14/2019	12:33	LB105691
	Vanadium	497	500	99	90 - 110	P	10/14/2019	12:33	LB105691
	Zinc	996	1000	100	90 - 110	P	10/14/2019	12:33	LB105691
CCV52	Aluminum	52000	50000	104	90 - 110	P	10/14/2019	13:17	LB105691
	Antimony	484	500	97	90 - 110	P	10/14/2019	13:17	LB105691
	Arsenic	524	500	105	90 - 110	P	10/14/2019	13:17	LB105691
	Barium	2520	2500	101	90 - 110	P	10/14/2019	13:17	LB105691
	Beryllium	493	500	99	90 - 110	P	10/14/2019	13:17	LB105691
	Cadmium	484	500	97	90 - 110	P	10/14/2019	13:17	LB105691
	Calcium	249000	250000	100	90 - 110	P	10/14/2019	13:17	LB105691
	Chromium	505	500	101	90 - 110	P	10/14/2019	13:17	LB105691
	Cobalt	485	500	97	90 - 110	P	10/14/2019	13:17	LB105691
	Copper	1010	1000	100	90 - 110	P	10/14/2019	13:17	LB105691
	Iron	125000	125000	100	90 - 110	P	10/14/2019	13:17	LB105691
	Lead	499	500	100	90 - 110	P	10/14/2019	13:17	LB105691

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. **SDG No.:** K5154
Contract: TRCE03 **Lab Code:** CHEM **Case No.:** K5154 **SAS No.:** K5154
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV52	Magnesium	255000	250000	102	90 - 110	P	10/14/2019	13:17	LB105691
	Manganese	961	1000	96	90 - 110	P	10/14/2019	13:17	LB105691
	Nickel	485	500	97	90 - 110	P	10/14/2019	13:17	LB105691
	Potassium	127000	125000	102	90 - 110	P	10/14/2019	13:17	LB105691
	Selenium	485	500	97	90 - 110	P	10/14/2019	13:17	LB105691
	Silver	474	500	95	90 - 110	P	10/14/2019	13:17	LB105691
	Sodium	256000	250000	102	90 - 110	P	10/14/2019	13:17	LB105691
	Thallium	507	500	101	90 - 110	P	10/14/2019	13:17	LB105691
	Vanadium	500	500	100	90 - 110	P	10/14/2019	13:17	LB105691
	Zinc	985	1000	98	90 - 110	P	10/14/2019	13:17	LB105691
CCV53	Aluminum	51600	50000	103	90 - 110	P	10/14/2019	14:18	LB105691
	Antimony	544	500	109	90 - 110	P	10/14/2019	14:18	LB105691
	Arsenic	544	500	109	90 - 110	P	10/14/2019	14:18	LB105691
	Barium	2490	2500	100	90 - 110	P	10/14/2019	14:18	LB105691
	Beryllium	489	500	98	90 - 110	P	10/14/2019	14:18	LB105691
	Cadmium	513	500	102	90 - 110	P	10/14/2019	14:18	LB105691
	Calcium	252000	250000	101	90 - 110	P	10/14/2019	14:18	LB105691
	Chromium	502	500	100	90 - 110	P	10/14/2019	14:18	LB105691
	Cobalt	482	500	96	90 - 110	P	10/14/2019	14:18	LB105691
	Copper	1010	1000	101	90 - 110	P	10/14/2019	14:18	LB105691
	Iron	125000	125000	100	90 - 110	P	10/14/2019	14:18	LB105691
	Lead	498	500	100	90 - 110	P	10/14/2019	14:18	LB105691
	Magnesium	255000	250000	102	90 - 110	P	10/14/2019	14:18	LB105691
	Manganese	966	1000	97	90 - 110	P	10/14/2019	14:18	LB105691
	Nickel	483	500	97	90 - 110	P	10/14/2019	14:18	LB105691
	Potassium	126000	125000	101	90 - 110	P	10/14/2019	14:18	LB105691
	Selenium	495	500	99	90 - 110	P	10/14/2019	14:18	LB105691
	Silver	496	500	99	90 - 110	P	10/14/2019	14:18	LB105691
	Sodium	255000	250000	102	90 - 110	P	10/14/2019	14:18	LB105691
	Thallium	505	500	101	90 - 110	P	10/14/2019	14:18	LB105691
	Vanadium	493	500	99	90 - 110	P	10/14/2019	14:18	LB105691
	Zinc	1000	1000	100	90 - 110	P	10/14/2019	14:18	LB105691
CCV54	Aluminum	51700	50000	103	90 - 110	P	10/14/2019	15:08	LB105691
	Antimony	523	500	104	90 - 110	P	10/14/2019	15:08	LB105691

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. **SDG No.:** K5154
Contract: TRCE03 **Lab Code:** CHEM **Case No.:** K5154 **SAS No.:** K5154
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV54	Arsenic	538	500	108	90 - 110	P	10/14/2019	15:08	LB105691
	Barium	2430	2500	97	90 - 110	P	10/14/2019	15:08	LB105691
	Beryllium	481	500	96	90 - 110	P	10/14/2019	15:08	LB105691
	Cadmium	496	500	99	90 - 110	P	10/14/2019	15:08	LB105691
	Calcium	252000	250000	101	90 - 110	P	10/14/2019	15:08	LB105691
	Chromium	515	500	103	90 - 110	P	10/14/2019	15:08	LB105691
	Cobalt	494	500	99	90 - 110	P	10/14/2019	15:08	LB105691
	Copper	1040	1000	104	90 - 110	P	10/14/2019	15:08	LB105691
	Iron	128000	125000	102	90 - 110	P	10/14/2019	15:08	LB105691
	Lead	495	500	99	90 - 110	P	10/14/2019	15:08	LB105691
	Magnesium	260000	250000	104	90 - 110	P	10/14/2019	15:08	LB105691
	Manganese	982	1000	98	90 - 110	P	10/14/2019	15:08	LB105691
	Nickel	494	500	99	90 - 110	P	10/14/2019	15:08	LB105691
	Potassium	126000	125000	101	90 - 110	P	10/14/2019	15:08	LB105691
	Selenium	494	500	99	90 - 110	P	10/14/2019	15:08	LB105691
	Silver	478	500	96	90 - 110	P	10/14/2019	15:08	LB105691
	Sodium	261000	250000	104	90 - 110	P	10/14/2019	15:08	LB105691
	Thallium	505	500	101	90 - 110	P	10/14/2019	15:08	LB105691
	Vanadium	502	500	100	90 - 110	P	10/14/2019	15:08	LB105691
	Zinc	1040	1000	104	90 - 110	P	10/14/2019	15:08	LB105691
CCV55	Aluminum	51700	50000	104	90 - 110	P	10/14/2019	16:03	LB105691
	Antimony	505	500	101	90 - 110	P	10/14/2019	16:03	LB105691
	Arsenic	533	500	107	90 - 110	P	10/14/2019	16:03	LB105691
	Barium	2410	2500	97	90 - 110	P	10/14/2019	16:03	LB105691
	Beryllium	482	500	96	90 - 110	P	10/14/2019	16:03	LB105691
	Cadmium	504	500	101	90 - 110	P	10/14/2019	16:03	LB105691
	Calcium	252000	250000	101	90 - 110	P	10/14/2019	16:03	LB105691
	Chromium	512	500	102	90 - 110	P	10/14/2019	16:03	LB105691
	Cobalt	490	500	98	90 - 110	P	10/14/2019	16:03	LB105691
	Copper	1040	1000	104	90 - 110	P	10/14/2019	16:03	LB105691
	Iron	127000	125000	102	90 - 110	P	10/14/2019	16:03	LB105691
	Lead	495	500	99	90 - 110	P	10/14/2019	16:03	LB105691
	Magnesium	260000	250000	104	90 - 110	P	10/14/2019	16:03	LB105691
	Manganese	976	1000	98	90 - 110	P	10/14/2019	16:03	LB105691

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. **SDG No.:** K5154
Contract: TRCE03 **Lab Code:** CHEM **Case No.:** K5154 **SAS No.:** K5154
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV55	Nickel	488	500	98	90 - 110	P	10/14/2019	16:03	LB105691
	Potassium	125000	125000	100	90 - 110	P	10/14/2019	16:03	LB105691
	Selenium	494	500	99	90 - 110	P	10/14/2019	16:03	LB105691
	Silver	481	500	96	90 - 110	P	10/14/2019	16:03	LB105691
	Sodium	261000	250000	104	90 - 110	P	10/14/2019	16:03	LB105691
	Thallium	501	500	100	90 - 110	P	10/14/2019	16:03	LB105691
	Vanadium	499	500	100	90 - 110	P	10/14/2019	16:03	LB105691
	Zinc	1050	1000	105	90 - 110	P	10/14/2019	16:03	LB105691
CCV56	Aluminum	51700	50000	103	90 - 110	P	10/14/2019	17:26	LB105691
	Antimony	505	500	101	90 - 110	P	10/14/2019	17:26	LB105691
	Arsenic	534	500	107	90 - 110	P	10/14/2019	17:26	LB105691
	Barium	2420	2500	97	90 - 110	P	10/14/2019	17:26	LB105691
	Beryllium	483	500	97	90 - 110	P	10/14/2019	17:26	LB105691
	Cadmium	505	500	101	90 - 110	P	10/14/2019	17:26	LB105691
	Calcium	251000	250000	100	90 - 110	P	10/14/2019	17:26	LB105691
	Chromium	514	500	103	90 - 110	P	10/14/2019	17:26	LB105691
	Cobalt	493	500	99	90 - 110	P	10/14/2019	17:26	LB105691
	Copper	1050	1000	105	90 - 110	P	10/14/2019	17:26	LB105691
	Iron	127000	125000	102	90 - 110	P	10/14/2019	17:26	LB105691
	Lead	495	500	99	90 - 110	P	10/14/2019	17:26	LB105691
	Magnesium	259000	250000	104	90 - 110	P	10/14/2019	17:26	LB105691
	Manganese	980	1000	98	90 - 110	P	10/14/2019	17:26	LB105691
	Nickel	492	500	98	90 - 110	P	10/14/2019	17:26	LB105691
	Potassium	125000	125000	100	90 - 110	P	10/14/2019	17:26	LB105691
	Selenium	494	500	99	90 - 110	P	10/14/2019	17:26	LB105691
	Silver	487	500	97	90 - 110	P	10/14/2019	17:26	LB105691
	Sodium	260000	250000	104	90 - 110	P	10/14/2019	17:26	LB105691
	Thallium	501	500	100	90 - 110	P	10/14/2019	17:26	LB105691
	Vanadium	502	500	100	90 - 110	P	10/14/2019	17:26	LB105691
	Zinc	1060	1000	106	90 - 110	P	10/14/2019	17:26	LB105691
CCV57	Aluminum	50600	50000	101	90 - 110	P	10/14/2019	18:16	LB105691
	Antimony	497	500	99	90 - 110	P	10/14/2019	18:16	LB105691
	Arsenic	517	500	103	90 - 110	P	10/14/2019	18:16	LB105691
	Barium	2500	2500	100	90 - 110	P	10/14/2019	18:16	LB105691

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. SDG No.: K5154

Contract: TRCE03 Lab Code: CHEM Case No.: K5154 SAS No.: K5154

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV57	Beryllium	495	500	99	90 - 110	P	10/14/2019	18:16	LB105691
	Cadmium	502	500	100	90 - 110	P	10/14/2019	18:16	LB105691
	Calcium	258000	250000	103	90 - 110	P	10/14/2019	18:16	LB105691
	Chromium	507	500	101	90 - 110	P	10/14/2019	18:16	LB105691
	Cobalt	486	500	97	90 - 110	P	10/14/2019	18:16	LB105691
	Copper	1000	1000	100	90 - 110	P	10/14/2019	18:16	LB105691
	Iron	126000	125000	101	90 - 110	P	10/14/2019	18:16	LB105691
	Lead	506	500	101	90 - 110	P	10/14/2019	18:16	LB105691
	Magnesium	255000	250000	102	90 - 110	P	10/14/2019	18:16	LB105691
	Manganese	970	1000	97	90 - 110	P	10/14/2019	18:16	LB105691
	Nickel	489	500	98	90 - 110	P	10/14/2019	18:16	LB105691
	Potassium	124000	125000	99	90 - 110	P	10/14/2019	18:16	LB105691
	Selenium	491	500	98	90 - 110	P	10/14/2019	18:16	LB105691
	Silver	481	500	96	90 - 110	P	10/14/2019	18:16	LB105691
	Sodium	256000	250000	103	90 - 110	P	10/14/2019	18:16	LB105691
	Thallium	514	500	103	90 - 110	P	10/14/2019	18:16	LB105691
	Vanadium	498	500	100	90 - 110	P	10/14/2019	18:16	LB105691
	Zinc	993	1000	99	90 - 110	P	10/14/2019	18:16	LB105691
CCV58	Aluminum	51300	50000	103	90 - 110	P	10/14/2019	19:05	LB105691
	Antimony	488	500	98	90 - 110	P	10/14/2019	19:05	LB105691
	Arsenic	532	500	106	90 - 110	P	10/14/2019	19:05	LB105691
	Barium	2420	2500	97	90 - 110	P	10/14/2019	19:05	LB105691
	Beryllium	482	500	96	90 - 110	P	10/14/2019	19:05	LB105691
	Cadmium	495	500	99	90 - 110	P	10/14/2019	19:05	LB105691
	Calcium	253000	250000	101	90 - 110	P	10/14/2019	19:05	LB105691
	Chromium	513	500	103	90 - 110	P	10/14/2019	19:05	LB105691
	Cobalt	491	500	98	90 - 110	P	10/14/2019	19:05	LB105691
	Copper	1040	1000	104	90 - 110	P	10/14/2019	19:05	LB105691
	Iron	127000	125000	102	90 - 110	P	10/14/2019	19:05	LB105691
	Lead	493	500	98	90 - 110	P	10/14/2019	19:05	LB105691
	Magnesium	260000	250000	104	90 - 110	P	10/14/2019	19:05	LB105691
	Manganese	976	1000	98	90 - 110	P	10/14/2019	19:05	LB105691
	Nickel	492	500	98	90 - 110	P	10/14/2019	19:05	LB105691
	Potassium	127000	125000	101	90 - 110	P	10/14/2019	19:05	LB105691

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. **SDG No.:** K5154
Contract: TRCE03 **Lab Code:** CHEM **Case No.:** K5154 **SAS No.:** K5154
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV58	Selenium	488	500	98	90 - 110	P	10/14/2019	19:05	LB105691
	Silver	475	500	95	90 - 110	P	10/14/2019	19:05	LB105691
	Sodium	263000	250000	105	90 - 110	P	10/14/2019	19:05	LB105691
	Thallium	504	500	101	90 - 110	P	10/14/2019	19:05	LB105691
	Vanadium	501	500	100	90 - 110	P	10/14/2019	19:05	LB105691
	Zinc	1050	1000	105	90 - 110	P	10/14/2019	19:05	LB105691
CCV59	Aluminum	51300	50000	103	90 - 110	P	10/14/2019	20:18	LB105691
	Antimony	507	500	101	90 - 110	P	10/14/2019	20:18	LB105691
	Arsenic	531	500	106	90 - 110	P	10/14/2019	20:18	LB105691
	Barium	2450	2500	98	90 - 110	P	10/14/2019	20:18	LB105691
	Beryllium	485	500	97	90 - 110	P	10/14/2019	20:18	LB105691
	Cadmium	499	500	100	90 - 110	P	10/14/2019	20:18	LB105691
	Calcium	257000	250000	103	90 - 110	P	10/14/2019	20:18	LB105691
	Chromium	511	500	102	90 - 110	P	10/14/2019	20:18	LB105691
	Cobalt	488	500	98	90 - 110	P	10/14/2019	20:18	LB105691
	Copper	1040	1000	104	90 - 110	P	10/14/2019	20:18	LB105691
	Iron	127000	125000	101	90 - 110	P	10/14/2019	20:18	LB105691
	Lead	496	500	99	90 - 110	P	10/14/2019	20:18	LB105691
	Magnesium	259000	250000	104	90 - 110	P	10/14/2019	20:18	LB105691
	Manganese	973	1000	97	90 - 110	P	10/14/2019	20:18	LB105691
	Nickel	489	500	98	90 - 110	P	10/14/2019	20:18	LB105691
	Potassium	127000	125000	102	90 - 110	P	10/14/2019	20:18	LB105691
	Selenium	488	500	98	90 - 110	P	10/14/2019	20:18	LB105691
	Silver	480	500	96	90 - 110	P	10/14/2019	20:18	LB105691
	Sodium	261000	250000	104	90 - 110	P	10/14/2019	20:18	LB105691
	Thallium	506	500	101	90 - 110	P	10/14/2019	20:18	LB105691
	Vanadium	503	500	101	90 - 110	P	10/14/2019	20:18	LB105691
	Zinc	1040	1000	104	90 - 110	P	10/14/2019	20:18	LB105691
CCV60	Aluminum	51100	50000	102	90 - 110	P	10/14/2019	21:09	LB105691
	Antimony	497	500	99	90 - 110	P	10/14/2019	21:09	LB105691
	Arsenic	534	500	107	90 - 110	P	10/14/2019	21:09	LB105691
	Barium	2450	2500	98	90 - 110	P	10/14/2019	21:09	LB105691
	Beryllium	482	500	96	90 - 110	P	10/14/2019	21:09	LB105691
	Cadmium	492	500	98	90 - 110	P	10/14/2019	21:09	LB105691

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. SDG No.: K5154

Contract: TRCE03 Lab Code: CHEM Case No.: K5154 SAS No.: K5154

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV60	Calcium	255000	250000	102	90 - 110	P	10/14/2019	21:09	LB105691
	Chromium	506	500	101	90 - 110	P	10/14/2019	21:09	LB105691
	Cobalt	482	500	96	90 - 110	P	10/14/2019	21:09	LB105691
	Copper	1030	1000	103	90 - 110	P	10/14/2019	21:09	LB105691
	Iron	125000	125000	100	90 - 110	P	10/14/2019	21:09	LB105691
	Lead	491	500	98	90 - 110	P	10/14/2019	21:09	LB105691
	Magnesium	258000	250000	103	90 - 110	P	10/14/2019	21:09	LB105691
	Manganese	967	1000	97	90 - 110	P	10/14/2019	21:09	LB105691
	Nickel	484	500	97	90 - 110	P	10/14/2019	21:09	LB105691
	Potassium	127000	125000	101	90 - 110	P	10/14/2019	21:09	LB105691
	Selenium	485	500	97	90 - 110	P	10/14/2019	21:09	LB105691
	Silver	473	500	95	90 - 110	P	10/14/2019	21:09	LB105691
	Sodium	261000	250000	104	90 - 110	P	10/14/2019	21:09	LB105691
	Thallium	501	500	100	90 - 110	P	10/14/2019	21:09	LB105691
	Vanadium	496	500	99	90 - 110	P	10/14/2019	21:09	LB105691
	Zinc	1020	1000	102	90 - 110	P	10/14/2019	21:09	LB105691
CCV61	Aluminum	51300	50000	102	90 - 110	P	10/14/2019	22:01	LB105691
	Antimony	494	500	99	90 - 110	P	10/14/2019	22:01	LB105691
	Arsenic	497	500	99	90 - 110	P	10/14/2019	22:01	LB105691
	Barium	2430	2500	97	90 - 110	P	10/14/2019	22:01	LB105691
	Beryllium	480	500	96	90 - 110	P	10/14/2019	22:01	LB105691
	Cadmium	509	500	102	90 - 110	P	10/14/2019	22:01	LB105691
	Calcium	257000	250000	103	90 - 110	P	10/14/2019	22:01	LB105691
	Chromium	511	500	102	90 - 110	P	10/14/2019	22:01	LB105691
	Cobalt	490	500	98	90 - 110	P	10/14/2019	22:01	LB105691
	Copper	975	1000	98	90 - 110	P	10/14/2019	22:01	LB105691
	Iron	127000	125000	101	90 - 110	P	10/14/2019	22:01	LB105691
	Lead	489	500	98	90 - 110	P	10/14/2019	22:01	LB105691
	Magnesium	260000	250000	104	90 - 110	P	10/14/2019	22:01	LB105691
	Manganese	976	1000	98	90 - 110	P	10/14/2019	22:01	LB105691
	Nickel	486	500	97	90 - 110	P	10/14/2019	22:01	LB105691
	Potassium	128000	125000	102	90 - 110	P	10/14/2019	22:01	LB105691
	Selenium	461	500	92	90 - 110	P	10/14/2019	22:01	LB105691
	Silver	466	500	93	90 - 110	P	10/14/2019	22:01	LB105691

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. **SDG No.:** K5154
Contract: TRCE03 **Lab Code:** CHEM **Case No.:** K5154 **SAS No.:** K5154
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV61	Sodium	264000	250000	106	90 - 110	P	10/14/2019	22:01	LB105691
	Thallium	504	500	101	90 - 110	P	10/14/2019	22:01	LB105691
	Vanadium	501	500	100	90 - 110	P	10/14/2019	22:01	LB105691
	Zinc	961	1000	96	90 - 110	P	10/14/2019	22:01	LB105691
CCV62	Aluminum	51100	50000	102	90 - 110	P	10/14/2019	22:45	LB105691
	Antimony	451	500	90	90 - 110	P	10/14/2019	22:45	LB105691
	Arsenic	527	500	105	90 - 110	P	10/14/2019	22:45	LB105691
	Barium	2380	2500	95	90 - 110	P	10/14/2019	22:45	LB105691
	Beryllium	467	500	93	90 - 110	P	10/14/2019	22:45	LB105691
	Cadmium	471	500	94	90 - 110	P	10/14/2019	22:45	LB105691
	Calcium	256000	250000	102	90 - 110	P	10/14/2019	22:45	LB105691
	Chromium	509	500	102	90 - 110	P	10/14/2019	22:45	LB105691
	Cobalt	485	500	97	90 - 110	P	10/14/2019	22:45	LB105691
	Copper	1040	1000	104	90 - 110	P	10/14/2019	22:45	LB105691
	Iron	126000	125000	101	90 - 110	P	10/14/2019	22:45	LB105691
	Lead	491	500	98	90 - 110	P	10/14/2019	22:45	LB105691
	Magnesium	261000	250000	104	90 - 110	P	10/14/2019	22:45	LB105691
	Manganese	973	1000	97	90 - 110	P	10/14/2019	22:45	LB105691
	Nickel	484	500	97	90 - 110	P	10/14/2019	22:45	LB105691
	Potassium	127000	125000	102	90 - 110	P	10/14/2019	22:45	LB105691
	Selenium	474	500	95	90 - 110	P	10/14/2019	22:45	LB105691
	Silver	444	500	89	90 - 110	P	10/14/2019	22:45	LB105691
	Sodium	265000	250000	106	90 - 110	P	10/14/2019	22:45	LB105691
	Thallium	508	500	102	90 - 110	P	10/14/2019	22:45	LB105691
CCV63	Vanadium	497	500	100	90 - 110	P	10/14/2019	22:45	LB105691
	Zinc	1030	1000	103	90 - 110	P	10/14/2019	22:45	LB105691
	Aluminum	50900	50000	102	90 - 110	P	10/14/2019	23:14	LB105691
	Antimony	464	500	93	90 - 110	P	10/14/2019	23:14	LB105691
	Arsenic	492	500	98	90 - 110	P	10/14/2019	23:14	LB105691
	Barium	2410	2500	96	90 - 110	P	10/14/2019	23:14	LB105691
	Beryllium	471	500	94	90 - 110	P	10/14/2019	23:14	LB105691
	Cadmium	501	500	100	90 - 110	P	10/14/2019	23:14	LB105691
	Calcium	257000	250000	103	90 - 110	P	10/14/2019	23:14	LB105691
	Chromium	514	500	103	90 - 110	P	10/14/2019	23:14	LB105691

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. SDG No.: K5154

Contract: TRCE03 Lab Code: CHEM Case No.: K5154 SAS No.: K5154

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV63	Cobalt	492	500	98	90 - 110	P	10/14/2019	23:14	LB105691
	Copper	993	1000	99	90 - 110	P	10/14/2019	23:14	LB105691
	Iron	128000	125000	102	90 - 110	P	10/14/2019	23:14	LB105691
	Lead	491	500	98	90 - 110	P	10/14/2019	23:14	LB105691
	Magnesium	262000	250000	105	90 - 110	P	10/14/2019	23:14	LB105691
	Manganese	981	1000	98	90 - 110	P	10/14/2019	23:14	LB105691
	Nickel	493	500	99	90 - 110	P	10/14/2019	23:14	LB105691
	Potassium	128000	125000	103	90 - 110	P	10/14/2019	23:14	LB105691
	Selenium	449	500	90	90 - 110	P	10/14/2019	23:14	LB105691
	Silver	479	500	96	90 - 110	P	10/14/2019	23:14	LB105691
	Sodium	265000	250000	106	90 - 110	P	10/14/2019	23:14	LB105691
	Thallium	508	500	102	90 - 110	P	10/14/2019	23:14	LB105691
	Vanadium	504	500	101	90 - 110	P	10/14/2019	23:14	LB105691
	Zinc	969	1000	97	90 - 110	P	10/14/2019	23:14	LB105691

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. SDG No.: K5154

Contract: TRCE03 Lab Code: CHEM Case No.: K5154 SAS No.: K5154

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	465	504	92	90 - 110	P	10/16/2019	13:18	LB105753
	Antimony	198	199	99	90 - 110	P	10/16/2019	13:18	LB105753
	Arsenic	206	200	103	90 - 110	P	10/16/2019	13:18	LB105753
	Barium	101	99.0	102	90 - 110	P	10/16/2019	13:18	LB105753
	Beryllium	97.4	99.0	98	90 - 110	P	10/16/2019	13:18	LB105753
	Cadmium	108	99.0	109	90 - 110	P	10/16/2019	13:18	LB105753
	Calcium	2190	2005	109	90 - 110	P	10/16/2019	13:18	LB105753
	Chromium	97.6	98.0	100	90 - 110	P	10/16/2019	13:18	LB105753
	Cobalt	102	100	102	90 - 110	P	10/16/2019	13:18	LB105753
	Copper	101	98.0	103	90 - 110	P	10/16/2019	13:18	LB105753
	Iron	1060	1016	104	90 - 110	P	10/16/2019	13:18	LB105753
	Lead	203	200	102	90 - 110	P	10/16/2019	13:18	LB105753
	Magnesium	1270	1215	105	90 - 110	P	10/16/2019	13:18	LB105753
	Manganese	96.1	100	96	90 - 110	P	10/16/2019	13:18	LB105753
	Nickel	104	101	103	90 - 110	P	10/16/2019	13:18	LB105753
	Potassium	1950	2004	97	90 - 110	P	10/16/2019	13:18	LB105753
	Selenium	208	206	101	90 - 110	P	10/16/2019	13:18	LB105753
	Silver	98.2	100	98	90 - 110	P	10/16/2019	13:18	LB105753
	Sodium	2050	2019	101	90 - 110	P	10/16/2019	13:18	LB105753
	Thallium	206	206	100	90 - 110	P	10/16/2019	13:18	LB105753
	Vanadium	96.3	100	96	90 - 110	P	10/16/2019	13:18	LB105753
	Zinc	200	205	97	90 - 110	P	10/16/2019	13:18	LB105753

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. **SDG No.:** K5154
Contract: TRCE03 **Lab Code:** CHEM **Case No.:** K5154 **SAS No.:** K5154
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV70	Aluminum	49900	50000	100	90 - 110	P	10/16/2019	13:35	LB105753
	Antimony	474	500	95	90 - 110	P	10/16/2019	13:35	LB105753
	Arsenic	478	500	96	90 - 110	P	10/16/2019	13:35	LB105753
	Barium	2500	2500	100	90 - 110	P	10/16/2019	13:35	LB105753
	Beryllium	483	500	97	90 - 110	P	10/16/2019	13:35	LB105753
	Cadmium	500	500	100	90 - 110	P	10/16/2019	13:35	LB105753
	Calcium	242000	250000	97	90 - 110	P	10/16/2019	13:35	LB105753
	Chromium	491	500	98	90 - 110	P	10/16/2019	13:35	LB105753
	Cobalt	473	500	95	90 - 110	P	10/16/2019	13:35	LB105753
	Copper	974	1000	97	90 - 110	P	10/16/2019	13:35	LB105753
	Iron	119000	125000	95	90 - 110	P	10/16/2019	13:35	LB105753
	Lead	460	500	92	90 - 110	P	10/16/2019	13:35	LB105753
	Magnesium	243000	250000	97	90 - 110	P	10/16/2019	13:35	LB105753
	Manganese	942	1000	94	90 - 110	P	10/16/2019	13:35	LB105753
	Nickel	474	500	95	90 - 110	P	10/16/2019	13:35	LB105753
	Potassium	122000	125000	98	90 - 110	P	10/16/2019	13:35	LB105753
	Selenium	489	500	98	90 - 110	P	10/16/2019	13:35	LB105753
	Silver	497	500	99	90 - 110	P	10/16/2019	13:35	LB105753
	Sodium	243000	250000	97	90 - 110	P	10/16/2019	13:35	LB105753
	Thallium	503	500	101	90 - 110	P	10/16/2019	13:35	LB105753
	Vanadium	488	500	98	90 - 110	P	10/16/2019	13:35	LB105753
	Zinc	949	1000	95	90 - 110	P	10/16/2019	13:35	LB105753

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. SDG No.: K5154

Contract: TRCE03 Lab Code: CHEM Case No.: K5154 SAS No.: K5154

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLCCV	Aluminum	19.5	20.0	98	80 - 120	P	10/16/2019	13:44	LB105753
	Antimony	2.12	2.0	106	80 - 120	P	10/16/2019	13:44	LB105753
	Arsenic	1.08	1.0	108	80 - 120	P	10/16/2019	13:44	LB105753
	Barium	10.6	10.0	106	80 - 120	P	10/16/2019	13:44	LB105753
	Beryllium	1.04	1.0	104	80 - 120	P	10/16/2019	13:44	LB105753
	Cadmium	1.12	1.0	112	80 - 120	P	10/16/2019	13:44	LB105753
	Calcium	494	500	99	80 - 120	P	10/16/2019	13:44	LB105753
	Chromium	1.96	2.0	98	80 - 120	P	10/16/2019	13:44	LB105753
	Cobalt	1.04	1.0	104	80 - 120	P	10/16/2019	13:44	LB105753
	Copper	2.09	2.0	104	80 - 120	P	10/16/2019	13:44	LB105753
	Iron	54.6	50.0	109	80 - 120	P	10/16/2019	13:44	LB105753
	Lead	0.90	1.0	90	80 - 120	P	10/16/2019	13:44	LB105753
	Magnesium	536	500	107	80 - 120	P	10/16/2019	13:44	LB105753
	Manganese	1.06	1.0	106	80 - 120	P	10/16/2019	13:44	LB105753
	Nickel	1.03	1.0	103	80 - 120	P	10/16/2019	13:44	LB105753
	Potassium	520	500	104	80 - 120	P	10/16/2019	13:44	LB105753
	Selenium	5.61	5.0	112	80 - 120	P	10/16/2019	13:44	LB105753
	Silver	1.22	1.0	122	80 - 120	P	10/16/2019	13:44	LB105753
	Sodium	526	500	105	80 - 120	P	10/16/2019	13:44	LB105753
	Thallium	0.98	1.0	98	80 - 120	P	10/16/2019	13:44	LB105753
	Vanadium	5.26	5.0	105	80 - 120	P	10/16/2019	13:44	LB105753
	Zinc	2.50	2.0	125	80 - 120	P	10/16/2019	13:44	LB105753

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. SDG No.: K5154

Contract: TRCE03 Lab Code: CHEM Case No.: K5154 SAS No.: K5154

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV71	Aluminum	50100	50000	100	90 - 110	P	10/16/2019	14:23	LB105753
	Antimony	452	500	90	90 - 110	P	10/16/2019	14:23	LB105753
	Arsenic	472	500	94	90 - 110	P	10/16/2019	14:23	LB105753
	Barium	2420	2500	97	90 - 110	P	10/16/2019	14:23	LB105753
	Beryllium	476	500	95	90 - 110	P	10/16/2019	14:23	LB105753
	Cadmium	484	500	97	90 - 110	P	10/16/2019	14:23	LB105753
	Calcium	241000	250000	96	90 - 110	P	10/16/2019	14:23	LB105753
	Chromium	498	500	100	90 - 110	P	10/16/2019	14:23	LB105753
	Cobalt	478	500	96	90 - 110	P	10/16/2019	14:23	LB105753
	Copper	988	1000	99	90 - 110	P	10/16/2019	14:23	LB105753
	Iron	121000	125000	97	90 - 110	P	10/16/2019	14:23	LB105753
	Lead	458	500	92	90 - 110	P	10/16/2019	14:23	LB105753
	Magnesium	247000	250000	99	90 - 110	P	10/16/2019	14:23	LB105753
	Manganese	954	1000	95	90 - 110	P	10/16/2019	14:23	LB105753
	Nickel	478	500	96	90 - 110	P	10/16/2019	14:23	LB105753
	Potassium	122000	125000	98	90 - 110	P	10/16/2019	14:23	LB105753
	Selenium	494	500	99	90 - 110	P	10/16/2019	14:23	LB105753
	Silver	478	500	96	90 - 110	P	10/16/2019	14:23	LB105753
	Sodium	248000	250000	99	90 - 110	P	10/16/2019	14:23	LB105753
	Thallium	505	500	101	90 - 110	P	10/16/2019	14:23	LB105753
	Vanadium	491	500	98	90 - 110	P	10/16/2019	14:23	LB105753
	Zinc	972	1000	97	90 - 110	P	10/16/2019	14:23	LB105753

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. SDG No.: K5154

Contract: TRCE03 Lab Code: CHEM Case No.: K5154 SAS No.: K5154

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	479	504	95	90 - 110	P	10/17/2019	17:54	LB105778
	Antimony	212	199	106	90 - 110	P	10/17/2019	17:54	LB105778
	Arsenic	213	200	107	90 - 110	P	10/17/2019	17:54	LB105778
	Barium	105	99.0	106	90 - 110	P	10/17/2019	17:54	LB105778
	Beryllium	104	99.0	106	90 - 110	P	10/17/2019	17:54	LB105778
	Cadmium	109	99.0	110	90 - 110	P	10/17/2019	17:54	LB105778
	Calcium	2090	2005	104	90 - 110	P	10/17/2019	17:54	LB105778
	Chromium	101	98.0	103	90 - 110	P	10/17/2019	17:54	LB105778
	Cobalt	103	100	103	90 - 110	P	10/17/2019	17:54	LB105778
	Copper	102	98.0	104	90 - 110	P	10/17/2019	17:54	LB105778
	Iron	1100	1016	108	90 - 110	P	10/17/2019	17:54	LB105778
	Lead	197	200	98	90 - 110	P	10/17/2019	17:54	LB105778
	Magnesium	1270	1215	104	90 - 110	P	10/17/2019	17:54	LB105778
	Manganese	102	100	102	90 - 110	P	10/17/2019	17:54	LB105778
	Nickel	107	101	106	90 - 110	P	10/17/2019	17:54	LB105778
	Potassium	2040	2004	102	90 - 110	P	10/17/2019	17:54	LB105778
	Selenium	222	206	108	90 - 110	P	10/17/2019	17:54	LB105778
	Silver	101	100	100	90 - 110	P	10/17/2019	17:54	LB105778
	Sodium	2080	2019	103	90 - 110	P	10/17/2019	17:54	LB105778
	Thallium	203	206	99	90 - 110	P	10/17/2019	17:54	LB105778
	Vanadium	100	100	100	90 - 110	P	10/17/2019	17:54	LB105778
	Zinc	206	205	101	90 - 110	P	10/17/2019	17:54	LB105778

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. SDG No.: K5154

Contract: TRCE03 Lab Code: CHEM Case No.: K5154 SAS No.: K5154

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV76	Aluminum	51000	50000	102	90 - 110	P	10/17/2019	18:09	LB105778
	Antimony	514	500	103	90 - 110	P	10/17/2019	18:09	LB105778
	Arsenic	496	500	99	90 - 110	P	10/17/2019	18:09	LB105778
	Barium	2550	2500	102	90 - 110	P	10/17/2019	18:09	LB105778
	Beryllium	515	500	103	90 - 110	P	10/17/2019	18:09	LB105778
	Cadmium	509	500	102	90 - 110	P	10/17/2019	18:09	LB105778
	Calcium	246000	250000	98	90 - 110	P	10/17/2019	18:09	LB105778
	Chromium	488	500	98	90 - 110	P	10/17/2019	18:09	LB105778
	Cobalt	457	500	91	90 - 110	P	10/17/2019	18:09	LB105778
	Copper	926	1000	93	90 - 110	P	10/17/2019	18:09	LB105778
	Iron	122000	125000	98	90 - 110	P	10/17/2019	18:09	LB105778
	Lead	498	500	100	90 - 110	P	10/17/2019	18:09	LB105778
	Magnesium	246000	250000	98	90 - 110	P	10/17/2019	18:09	LB105778
	Manganese	972	1000	97	90 - 110	P	10/17/2019	18:09	LB105778
	Nickel	456	500	91	90 - 110	P	10/17/2019	18:09	LB105778
	Potassium	125000	125000	100	90 - 110	P	10/17/2019	18:09	LB105778
	Selenium	509	500	102	90 - 110	P	10/17/2019	18:09	LB105778
	Silver	509	500	102	90 - 110	P	10/17/2019	18:09	LB105778
	Sodium	247000	250000	99	90 - 110	P	10/17/2019	18:09	LB105778
	Thallium	512	500	102	90 - 110	P	10/17/2019	18:09	LB105778
	Vanadium	483	500	96	90 - 110	P	10/17/2019	18:09	LB105778
	Zinc	953	1000	95	90 - 110	P	10/17/2019	18:09	LB105778

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. **SDG No.:** K5154
Contract: TRCE03 **Lab Code:** CHEM **Case No.:** K5154 **SAS No.:** K5154
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLCCV	Aluminum	19.5	20.0	97	80 - 120	P	10/17/2019	18:27	LB105778
	Antimony	2.11	2.0	106	80 - 120	P	10/17/2019	18:27	LB105778
	Arsenic	1.03	1.0	103	80 - 120	P	10/17/2019	18:27	LB105778
	Barium	10.7	10.0	107	80 - 120	P	10/17/2019	18:27	LB105778
	Beryllium	1.08	1.0	108	80 - 120	P	10/17/2019	18:27	LB105778
	Cadmium	1.09	1.0	109	80 - 120	P	10/17/2019	18:27	LB105778
	Calcium	485	500	97	80 - 120	P	10/17/2019	18:27	LB105778
	Chromium	1.96	2.0	98	80 - 120	P	10/17/2019	18:27	LB105778
	Cobalt	1.01	1.0	101	80 - 120	P	10/17/2019	18:27	LB105778
	Copper	1.91	2.0	96	80 - 120	P	10/17/2019	18:27	LB105778
	Iron	59.4	50.0	119	80 - 120	P	10/17/2019	18:27	LB105778
	Lead	0.92	1.0	92	80 - 120	P	10/17/2019	18:27	LB105778
	Magnesium	530	500	106	80 - 120	P	10/17/2019	18:27	LB105778
	Manganese	1.07	1.0	107	80 - 120	P	10/17/2019	18:27	LB105778
	Nickel	1.03	1.0	103	80 - 120	P	10/17/2019	18:27	LB105778
	Potassium	515	500	103	80 - 120	P	10/17/2019	18:27	LB105778
	Selenium	5.73	5.0	115	80 - 120	P	10/17/2019	18:27	LB105778
	Silver	1.18	1.0	118	80 - 120	P	10/17/2019	18:27	LB105778
	Sodium	515	500	103	80 - 120	P	10/17/2019	18:27	LB105778
	Thallium	0.98	1.0	98	80 - 120	P	10/17/2019	18:27	LB105778
	Vanadium	5.28	5.0	106	80 - 120	P	10/17/2019	18:27	LB105778
	Zinc	2.01	2.0	100	80 - 120	P	10/17/2019	18:27	LB105778

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. **SDG No.:** K5154
Contract: TRCE03 **Lab Code:** CHEM **Case No.:** K5154 **SAS No.:** K5154
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV77	Aluminum	50300	50000	101	90 - 110	P	10/17/2019	19:05	LB105778
	Antimony	502	500	100	90 - 110	P	10/17/2019	19:05	LB105778
	Arsenic	498	500	100	90 - 110	P	10/17/2019	19:05	LB105778
	Barium	2500	2500	100	90 - 110	P	10/17/2019	19:05	LB105778
	Beryllium	534	500	107	90 - 110	P	10/17/2019	19:05	LB105778
	Cadmium	494	500	99	90 - 110	P	10/17/2019	19:05	LB105778
	Calcium	248000	250000	99	90 - 110	P	10/17/2019	19:05	LB105778
	Chromium	496	500	99	90 - 110	P	10/17/2019	19:05	LB105778
	Cobalt	468	500	94	90 - 110	P	10/17/2019	19:05	LB105778
	Copper	953	1000	95	90 - 110	P	10/17/2019	19:05	LB105778
	Iron	123000	125000	99	90 - 110	P	10/17/2019	19:05	LB105778
	Lead	501	500	100	90 - 110	P	10/17/2019	19:05	LB105778
	Magnesium	245000	250000	98	90 - 110	P	10/17/2019	19:05	LB105778
	Manganese	980	1000	98	90 - 110	P	10/17/2019	19:05	LB105778
	Nickel	469	500	94	90 - 110	P	10/17/2019	19:05	LB105778
	Potassium	124000	125000	99	90 - 110	P	10/17/2019	19:05	LB105778
	Selenium	501	500	100	90 - 110	P	10/17/2019	19:05	LB105778
	Silver	494	500	99	90 - 110	P	10/17/2019	19:05	LB105778
	Sodium	249000	250000	99	90 - 110	P	10/17/2019	19:05	LB105778
	Thallium	512	500	102	90 - 110	P	10/17/2019	19:05	LB105778
	Vanadium	493	500	99	90 - 110	P	10/17/2019	19:05	LB105778
	Zinc	975	1000	98	90 - 110	P	10/17/2019	19:05	LB105778

Metals

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CRDL STANDARD FOR AA & ICP

Client: TRC Companies, Inc. **SDG No.:** K5154
Contract: TRCE03 **Lab Code:** CHEM **Case No.:** K5154 **SAS No.:** K5154
Initial Calibration Source: _____
Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.22	0.2	108	40 - 160	CV	10/03/2019	13:10	LB105464
CRA	Mercury	0.24	0.2	121	40 - 160	CV	10/07/2019	13:14	LB105539
CRI	Aluminum	23.0	20.0	115	70 - 130	P	10/10/2019	16:43	LB105633
	Antimony	2.06	2.0	103	70 - 130	P	10/10/2019	16:43	LB105633
	Arsenic	1.00	1.0	100	70 - 130	P	10/10/2019	16:43	LB105633
	Barium	10.5	10.0	105	70 - 130	P	10/10/2019	16:43	LB105633
	Beryllium	1.02	1.0	102	70 - 130	P	10/10/2019	16:43	LB105633
	Cadmium	1.14	1.0	114	70 - 130	P	10/10/2019	16:43	LB105633
	Calcium	515	500	103	70 - 130	P	10/10/2019	16:43	LB105633
	Chromium	2.05	2.0	102	70 - 130	P	10/10/2019	16:43	LB105633
	Cobalt	1.05	1.0	105	50 - 150	P	10/10/2019	16:43	LB105633
	Copper	2.10	2.0	105	70 - 130	P	10/10/2019	16:43	LB105633
	Iron	60.7	50.0	121	70 - 130	P	10/10/2019	16:43	LB105633
	Lead	1.00	1.0	100	70 - 130	P	10/10/2019	16:43	LB105633
	Magnesium	561	500	112	70 - 130	P	10/10/2019	16:43	LB105633
	Manganese	1.16	1.0	116	50 - 150	P	10/10/2019	16:43	LB105633
	Nickel	1.09	1.0	109	70 - 130	P	10/10/2019	16:43	LB105633
	Potassium	530	500	106	70 - 130	P	10/10/2019	16:43	LB105633
	Selenium	4.70	5.0	94	70 - 130	P	10/10/2019	16:43	LB105633
	Silver	1.13	1.0	113	70 - 130	P	10/10/2019	16:43	LB105633
	Sodium	551	500	110	70 - 130	P	10/10/2019	16:43	LB105633
	Thallium	0.99	1.0	99	70 - 130	P	10/10/2019	16:43	LB105633
	Vanadium	5.22	5.0	104	70 - 130	P	10/10/2019	16:43	LB105633
	Zinc	2.54	2.0	127	50 - 150	P	10/10/2019	16:43	LB105633
CRI	Aluminum	20.6	20.0	103	70 - 130	P	10/14/2019	12:41	LB105691
	Antimony	2.12	2.0	106	70 - 130	P	10/14/2019	12:41	LB105691
	Arsenic	1.06	1.0	106	70 - 130	P	10/14/2019	12:41	LB105691
	Barium	10.6	10.0	106	70 - 130	P	10/14/2019	12:41	LB105691
	Beryllium	1.00	1.0	100	70 - 130	P	10/14/2019	12:41	LB105691
	Cadmium	1.10	1.0	110	70 - 130	P	10/14/2019	12:41	LB105691
	Calcium	520	500	104	70 - 130	P	10/14/2019	12:41	LB105691
	Chromium	2.07	2.0	104	70 - 130	P	10/14/2019	12:41	LB105691
	Cobalt	1.06	1.0	106	50 - 150	P	10/14/2019	12:41	LB105691
	Copper	2.21	2.0	110	70 - 130	P	10/14/2019	12:41	LB105691
	Iron	62.5	50.0	125	70 - 130	P	10/14/2019	12:41	LB105691

Metals

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CRDL STANDARD FOR AA & ICP

Client: TRC Companies, Inc.

SDG No.: K5154

Contract: TRCE03

Lab Code: CHEM

Case No.: K5154

SAS No.: K5154

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI	Lead	1.02	1.0	102	70 - 130	P	10/14/2019	12:41	LB105691
	Magnesium	564	500	113	70 - 130	P	10/14/2019	12:41	LB105691
	Manganese	1.08	1.0	108	50 - 150	P	10/14/2019	12:41	LB105691
	Nickel	0.99	1.0	99	70 - 130	P	10/14/2019	12:41	LB105691
	Potassium	545	500	109	70 - 130	P	10/14/2019	12:41	LB105691
	Selenium	5.31	5.0	106	70 - 130	P	10/14/2019	12:41	LB105691
	Silver	1.16	1.0	116	70 - 130	P	10/14/2019	12:41	LB105691
	Sodium	574	500	115	70 - 130	P	10/14/2019	12:41	LB105691
	Thallium	0.97	1.0	97	70 - 130	P	10/14/2019	12:41	LB105691
	Vanadium	5.31	5.0	106	70 - 130	P	10/14/2019	12:41	LB105691
	Zinc	2.56	2.0	128	50 - 150	P	10/14/2019	12:41	LB105691
CRI	Aluminum	20.3	20.0	102	70 - 130	P	10/16/2019	13:51	LB105753
	Antimony	2.04	2.0	102	70 - 130	P	10/16/2019	13:51	LB105753
	Arsenic	1.06	1.0	106	70 - 130	P	10/16/2019	13:51	LB105753
	Barium	10.3	10.0	104	70 - 130	P	10/16/2019	13:51	LB105753
	Beryllium	1.05	1.0	105	70 - 130	P	10/16/2019	13:51	LB105753
	Cadmium	1.13	1.0	113	70 - 130	P	10/16/2019	13:51	LB105753
	Calcium	494	500	99	70 - 130	P	10/16/2019	13:51	LB105753
	Chromium	2.06	2.0	103	70 - 130	P	10/16/2019	13:51	LB105753
	Cobalt	1.06	1.0	106	50 - 150	P	10/16/2019	13:51	LB105753
	Copper	2.09	2.0	104	70 - 130	P	10/16/2019	13:51	LB105753
	Iron	54.5	50.0	109	70 - 130	P	10/16/2019	13:51	LB105753
	Lead	0.87	1.0	87	70 - 130	P	10/16/2019	13:51	LB105753
	Magnesium	538	500	108	70 - 130	P	10/16/2019	13:51	LB105753
	Manganese	1.08	1.0	108	50 - 150	P	10/16/2019	13:51	LB105753
	Nickel	1.03	1.0	103	70 - 130	P	10/16/2019	13:51	LB105753
	Potassium	512	500	102	70 - 130	P	10/16/2019	13:51	LB105753
	Selenium	5.86	5.0	117	70 - 130	P	10/16/2019	13:51	LB105753
	Silver	1.21	1.0	121	70 - 130	P	10/16/2019	13:51	LB105753
	Sodium	521	500	104	70 - 130	P	10/16/2019	13:51	LB105753
	Thallium	0.96	1.0	96	70 - 130	P	10/16/2019	13:51	LB105753
	Vanadium	5.28	5.0	106	70 - 130	P	10/16/2019	13:51	LB105753
	Zinc	1.83	2.0	92	50 - 150	P	10/16/2019	13:51	LB105753
CRI	Aluminum	19.8	20.0	99	70 - 130	P	10/17/2019	18:34	LB105778
	Antimony	2.05	2.0	102	70 - 130	P	10/17/2019	18:34	LB105778
	Arsenic	1.04	1.0	104	70 - 130	P	10/17/2019	18:34	LB105778
	Barium	10.6	10.0	106	70 - 130	P	10/17/2019	18:34	LB105778
	Beryllium	1.12	1.0	112	70 - 130	P	10/17/2019	18:34	LB105778

Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: TRC Companies, Inc. **SDG No.:** K5154

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** K5154 **SAS No.:** K5154

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI	Cadmium	1.18	1.0	118	70 - 130	P	10/17/2019	18:34	LB105778
	Calcium	485	500	97	70 - 130	P	10/17/2019	18:34	LB105778
	Chromium	2.02	2.0	101	70 - 130	P	10/17/2019	18:34	LB105778
	Cobalt	1.01	1.0	101	50 - 150	P	10/17/2019	18:34	LB105778
	Copper	1.86	2.0	93	70 - 130	P	10/17/2019	18:34	LB105778
	Iron	57.9	50.0	116	70 - 130	P	10/17/2019	18:34	LB105778
	Lead	0.94	1.0	94	70 - 130	P	10/17/2019	18:34	LB105778
	Magnesium	530	500	106	70 - 130	P	10/17/2019	18:34	LB105778
	Manganese	1.08	1.0	108	50 - 150	P	10/17/2019	18:34	LB105778
	Nickel	1.04	1.0	104	70 - 130	P	10/17/2019	18:34	LB105778
	Potassium	515	500	103	70 - 130	P	10/17/2019	18:34	LB105778
	Selenium	5.97	5.0	119	70 - 130	P	10/17/2019	18:34	LB105778
	Silver	1.20	1.0	120	70 - 130	P	10/17/2019	18:34	LB105778
	Sodium	517	500	103	70 - 130	P	10/17/2019	18:34	LB105778
	Thallium	0.98	1.0	98	70 - 130	P	10/17/2019	18:34	LB105778
	Vanadium	5.25	5.0	105	70 - 130	P	10/17/2019	18:34	LB105778
	Zinc	2.01	2.0	100	50 - 150	P	10/17/2019	18:34	LB105778



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc. **SDG No.:** K5154
Contract: TRCE03 **Lab Code:** CHEM **Case No.:** K5154 **SAS No.:** K5154

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB40	Mercury	0.20	+/-0.20	U	0.20	CV	10/03/2019	13:03	LB105464

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc.

SDG No.: K5154

Contract: TRCE03

Lab Code: CHEM

Case No.: K5154

SAS No.: K5154

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB52	Mercury	0.20	+/-0.20	U	0.20	CV	10/03/2019	13:08	LB105464
CCB53	Mercury	0.20	+/-0.20	U	0.20	CV	10/03/2019	13:33	LB105464
CCB54	Mercury	0.20	+/-0.20	U	0.20	CV	10/03/2019	13:59	LB105464
CCB55	Mercury	0.20	+/-0.20	U	0.20	CV	10/03/2019	14:24	LB105464
CCB56	Mercury	0.20	+/-0.20	U	0.20	CV	10/03/2019	14:59	LB105464
CCB57	Mercury	0.20	+/-0.20	U	0.20	CV	10/03/2019	15:24	LB105464
CCB58	Mercury	0.20	+/-0.20	U	0.20	CV	10/03/2019	15:50	LB105464
CCB59	Mercury	0.046	+/-0.20	J	0.20	CV	10/03/2019	16:00	LB105464

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc.		SDG No.: K5154							
Contract:	TRCE03	Lab Code:	CHEM	Case No.:	K5154	SAS No.:	K5154		
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB42	Mercury	0.20	+/-0.20	U	0.20	CV	10/07/2019	13:08	LB105539

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc. SDG No.: K5154
Contract: TRCE03 Lab Code: CHEM Case No.: K5154 SAS No.: K5154

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB64	Mercury	0.20	+/-0.20	U	0.20	CV	10/07/2019	13:12	LB105539
CCB65	Mercury	0.20	+/-0.20	U	0.20	CV	10/07/2019	13:37	LB105539
CCB66	Mercury	0.20	+/-0.20	U	0.20	CV	10/07/2019	14:03	LB105539
CCB67	Mercury	0.20	+/-0.20	U	0.20	CV	10/07/2019	14:30	LB105539
CCB68	Mercury	0.20	+/-0.20	U	0.20	CV	10/07/2019	15:10	LB105539
CCB69	Mercury	0.20	+/-0.20	U	0.20	CV	10/07/2019	15:32	LB105539

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc.

SDG No.: K5154

Contract: TRCE03

Lab Code: CHEM

Case No.: K5154

SAS No.: K5154

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	20.0	+/-20.0	U	20.0	P	10/10/2019	16:01	LB105633
	Antimony	2.00	+/-2.00	U	2.00	P	10/10/2019	16:01	LB105633
	Arsenic	1.00	+/-1.00	U	1.00	P	10/10/2019	16:01	LB105633
	Barium	10.0	+/-10.0	U	10.0	P	10/10/2019	16:01	LB105633
	Beryllium	1.00	+/-1.00	U	1.00	P	10/10/2019	16:01	LB105633
	Cadmium	1.00	+/-1.00	U	1.00	P	10/10/2019	16:01	LB105633
	Calcium	500	+/-500	U	500	P	10/10/2019	16:01	LB105633
	Chromium	2.00	+/-2.00	U	2.00	P	10/10/2019	16:01	LB105633
	Cobalt	1.00	+/-1.00	U	1.00	P	10/10/2019	16:01	LB105633
	Copper	2.00	+/-2.00	U	2.00	P	10/10/2019	16:01	LB105633
	Iron	50.0	+/-50.0	U	50.0	P	10/10/2019	16:01	LB105633
	Lead	1.00	+/-1.00	U	1.00	P	10/10/2019	16:01	LB105633
	Magnesium	500	+/-500	U	500	P	10/10/2019	16:01	LB105633
	Manganese	1.00	+/-1.00	U	1.00	P	10/10/2019	16:01	LB105633
	Nickel	1.00	+/-1.00	U	1.00	P	10/10/2019	16:01	LB105633
	Potassium	500	+/-500	U	500	P	10/10/2019	16:01	LB105633
	Selenium	5.00	+/-5.00	U	5.00	P	10/10/2019	16:01	LB105633
	Silver	1.00	+/-1.00	U	1.00	P	10/10/2019	16:01	LB105633
	Sodium	500	+/-500	U	500	P	10/10/2019	16:01	LB105633
	Thallium	1.00	+/-1.00	U	1.00	P	10/10/2019	16:01	LB105633
	Vanadium	5.00	+/-5.00	U	5.00	P	10/10/2019	16:01	LB105633
	Zinc	2.00	+/-2.00	U	2.00	P	10/10/2019	16:01	LB105633

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc.

SDG No.: K5154

Contract: TRCE03

Lab Code: CHEM

Case No.: K5154

SAS No.: K5154

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB35	Aluminum	20.0	+/-20.0	U	20.0	P	10/10/2019	16:39	LB105633
	Antimony	2.00	+/-2.00	U	2.00	P	10/10/2019	16:39	LB105633
	Arsenic	1.00	+/-1.00	U	1.00	P	10/10/2019	16:39	LB105633
	Barium	10.0	+/-10.0	U	10.0	P	10/10/2019	16:39	LB105633
	Beryllium	1.00	+/-1.00	U	1.00	P	10/10/2019	16:39	LB105633
	Cadmium	1.00	+/-1.00	U	1.00	P	10/10/2019	16:39	LB105633
	Calcium	500	+/-500	U	500	P	10/10/2019	16:39	LB105633
	Chromium	2.00	+/-2.00	U	2.00	P	10/10/2019	16:39	LB105633
	Cobalt	1.00	+/-1.00	U	1.00	P	10/10/2019	16:39	LB105633
	Copper	2.00	+/-2.00	U	2.00	P	10/10/2019	16:39	LB105633
	Iron	50.0	+/-50.0	U	50.0	P	10/10/2019	16:39	LB105633
	Lead	0.030	+/-1.00	J	1.00	P	10/10/2019	16:39	LB105633
	Magnesium	500	+/-500	U	500	P	10/10/2019	16:39	LB105633
	Manganese	1.00	+/-1.00	U	1.00	P	10/10/2019	16:39	LB105633
	Nickel	1.00	+/-1.00	U	1.00	P	10/10/2019	16:39	LB105633
	Potassium	27.6	+/-500	J	500	P	10/10/2019	16:39	LB105633
	Selenium	5.00	+/-5.00	U	5.00	P	10/10/2019	16:39	LB105633
	Silver	1.00	+/-1.00	U	1.00	P	10/10/2019	16:39	LB105633
	Sodium	31.7	+/-500	J	500	P	10/10/2019	16:39	LB105633
	Thallium	0.040	+/-1.00	J	1.00	P	10/10/2019	16:39	LB105633
CCB36	Vanadium	5.00	+/-5.00	U	5.00	P	10/10/2019	16:39	LB105633
	Zinc	2.00	+/-2.00	U	2.00	P	10/10/2019	16:39	LB105633
	Aluminum	20.0	+/-20.0	U	20.0	P	10/10/2019	17:45	LB105633
	Antimony	2.00	+/-2.00	U	2.00	P	10/10/2019	17:45	LB105633
	Arsenic	1.00	+/-1.00	U	1.00	P	10/10/2019	17:45	LB105633
	Barium	10.0	+/-10.0	U	10.0	P	10/10/2019	17:45	LB105633
	Beryllium	1.00	+/-1.00	U	1.00	P	10/10/2019	17:45	LB105633
	Cadmium	1.00	+/-1.00	U	1.00	P	10/10/2019	17:45	LB105633
	Calcium	500	+/-500	U	500	P	10/10/2019	17:45	LB105633
	Chromium	2.00	+/-2.00	U	2.00	P	10/10/2019	17:45	LB105633
	Cobalt	1.00	+/-1.00	U	1.00	P	10/10/2019	17:45	LB105633
	Copper	0.80	+/-2.00	J	2.00	P	10/10/2019	17:45	LB105633
	Iron	50.0	+/-50.0	U	50.0	P	10/10/2019	17:45	LB105633
	Lead	0.080	+/-1.00	J	1.00	P	10/10/2019	17:45	LB105633
	Magnesium	500	+/-500	U	500	P	10/10/2019	17:45	LB105633
	Manganese	1.00	+/-1.00	U	1.00	P	10/10/2019	17:45	LB105633
	Nickel	1.00	+/-1.00	U	1.00	P	10/10/2019	17:45	LB105633
	Potassium	500	+/-500	U	500	P	10/10/2019	17:45	LB105633
	Selenium	5.00	+/-5.00	U	5.00	P	10/10/2019	17:45	LB105633
	Silver	1.00	+/-1.00	U	1.00	P	10/10/2019	17:45	LB105633

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc.

SDG No.: K5154

Contract: TRCE03

Lab Code: CHEM

Case No.: K5154

SAS No.: K5154

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB36	Sodium	500	+/-500	U	500	P	10/10/2019	17:45	LB105633
	Thallium	1.00	+/-1.00	U	1.00	P	10/10/2019	17:45	LB105633
	Vanadium	5.00	+/-5.00	U	5.00	P	10/10/2019	17:45	LB105633
	Zinc	2.00	+/-2.00	U	2.00	P	10/10/2019	17:45	LB105633
CCB37	Aluminum	20.0	+/-20.0	U	20.0	P	10/10/2019	18:51	LB105633
	Antimony	0.080	+/-2.00	J	2.00	P	10/10/2019	18:51	LB105633
	Arsenic	1.00	+/-1.00	U	1.00	P	10/10/2019	18:51	LB105633
	Barium	10.0	+/-10.0	U	10.0	P	10/10/2019	18:51	LB105633
	Beryllium	1.00	+/-1.00	U	1.00	P	10/10/2019	18:51	LB105633
	Cadmium	1.00	+/-1.00	U	1.00	P	10/10/2019	18:51	LB105633
	Calcium	500	+/-500	U	500	P	10/10/2019	18:51	LB105633
	Chromium	2.00	+/-2.00	U	2.00	P	10/10/2019	18:51	LB105633
	Cobalt	1.00	+/-1.00	U	1.00	P	10/10/2019	18:51	LB105633
	Copper	0.55	+/-2.00	J	2.00	P	10/10/2019	18:51	LB105633
	Iron	50.0	+/-50.0	U	50.0	P	10/10/2019	18:51	LB105633
	Lead	0.060	+/-1.00	J	1.00	P	10/10/2019	18:51	LB105633
	Magnesium	500	+/-500	U	500	P	10/10/2019	18:51	LB105633
	Manganese	1.00	+/-1.00	U	1.00	P	10/10/2019	18:51	LB105633
	Nickel	1.00	+/-1.00	U	1.00	P	10/10/2019	18:51	LB105633
	Potassium	500	+/-500	U	500	P	10/10/2019	18:51	LB105633
	Selenium	5.00	+/-5.00	U	5.00	P	10/10/2019	18:51	LB105633
	Silver	1.00	+/-1.00	U	1.00	P	10/10/2019	18:51	LB105633
	Sodium	30.5	+/-500	J	500	P	10/10/2019	18:51	LB105633
	Thallium	1.00	+/-1.00	U	1.00	P	10/10/2019	18:51	LB105633
CCB38	Vanadium	5.00	+/-5.00	U	5.00	P	10/10/2019	18:51	LB105633
	Zinc	2.00	+/-2.00	U	2.00	P	10/10/2019	18:51	LB105633
	Aluminum	20.0	+/-20.0	U	20.0	P	10/10/2019	19:54	LB105633
	Antimony	0.090	+/-2.00	J	2.00	P	10/10/2019	19:54	LB105633
	Arsenic	1.00	+/-1.00	U	1.00	P	10/10/2019	19:54	LB105633
	Barium	10.0	+/-10.0	U	10.0	P	10/10/2019	19:54	LB105633
	Beryllium	1.00	+/-1.00	U	1.00	P	10/10/2019	19:54	LB105633
	Cadmium	1.00	+/-1.00	U	1.00	P	10/10/2019	19:54	LB105633
	Calcium	500	+/-500	U	500	P	10/10/2019	19:54	LB105633
	Chromium	2.00	+/-2.00	U	2.00	P	10/10/2019	19:54	LB105633
	Cobalt	1.00	+/-1.00	U	1.00	P	10/10/2019	19:54	LB105633
	Copper	2.00	+/-2.00	U	2.00	P	10/10/2019	19:54	LB105633
	Iron	50.0	+/-50.0	U	50.0	P	10/10/2019	19:54	LB105633
	Lead	0.040	+/-1.00	J	1.00	P	10/10/2019	19:54	LB105633
	Magnesium	500	+/-500	U	500	P	10/10/2019	19:54	LB105633
	Manganese	1.00	+/-1.00	U	1.00	P	10/10/2019	19:54	LB105633

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc.

SDG No.: K5154

Contract: TRCE03

Lab Code: CHEM

Case No.: K5154

SAS No.: K5154

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB38	Nickel	1.00	+/-1.00	U	1.00	P	10/10/2019	19:54	LB105633
	Potassium	500	+/-500	U	500	P	10/10/2019	19:54	LB105633
	Selenium	5.00	+/-5.00	U	5.00	P	10/10/2019	19:54	LB105633
	Silver	1.00	+/-1.00	U	1.00	P	10/10/2019	19:54	LB105633
	Sodium	61.0	+/-500	J	500	P	10/10/2019	19:54	LB105633
	Thallium	1.00	+/-1.00	U	1.00	P	10/10/2019	19:54	LB105633
	Vanadium	5.00	+/-5.00	U	5.00	P	10/10/2019	19:54	LB105633
	Zinc	2.00	+/-2.00	U	2.00	P	10/10/2019	19:54	LB105633
CCB39	Aluminum	5.21	+/-20.0	J	20.0	P	10/10/2019	20:19	LB105633
	Antimony	0.40	+/-2.00	J	2.00	P	10/10/2019	20:19	LB105633
	Arsenic	1.00	+/-1.00	U	1.00	P	10/10/2019	20:19	LB105633
	Barium	0.26	+/-10.0	J	10.0	P	10/10/2019	20:19	LB105633
	Beryllium	0.10	+/-1.00	J	1.00	P	10/10/2019	20:19	LB105633
	Cadmium	1.00	+/-1.00	U	1.00	P	10/10/2019	20:19	LB105633
	Calcium	34.8	+/-500	J	500	P	10/10/2019	20:19	LB105633
	Chromium	0.090	+/-2.00	J	2.00	P	10/10/2019	20:19	LB105633
	Cobalt	1.00	+/-1.00	U	1.00	P	10/10/2019	20:19	LB105633
	Copper	2.00	+/-2.00	U	2.00	P	10/10/2019	20:19	LB105633
	Iron	12.6	+/-50.0	J	50.0	P	10/10/2019	20:19	LB105633
	Lead	0.12	+/-1.00	J	1.00	P	10/10/2019	20:19	LB105633
	Magnesium	23.6	+/-500	J	500	P	10/10/2019	20:19	LB105633
	Manganese	0.090	+/-1.00	J	1.00	P	10/10/2019	20:19	LB105633
	Nickel	1.00	+/-1.00	U	1.00	P	10/10/2019	20:19	LB105633
	Potassium	31.5	+/-500	J	500	P	10/10/2019	20:19	LB105633
	Selenium	5.00	+/-5.00	U	5.00	P	10/10/2019	20:19	LB105633
	Silver	1.00	+/-1.00	U	1.00	P	10/10/2019	20:19	LB105633
	Sodium	130	+/-500	J	500	P	10/10/2019	20:19	LB105633
	Thallium	0.21	+/-1.00	J	1.00	P	10/10/2019	20:19	LB105633
	Vanadium	5.00	+/-5.00	U	5.00	P	10/10/2019	20:19	LB105633
	Zinc	2.00	+/-2.00	U	2.00	P	10/10/2019	20:19	LB105633

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc.

SDG No.: K5154

Contract: TRCE03

Lab Code: CHEM

Case No.: K5154

SAS No.: K5154

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	20.0	+/-20.0	U	20.0	P	10/14/2019	12:22	LB105691
	Antimony	2.00	+/-2.00	U	2.00	P	10/14/2019	12:22	LB105691
	Arsenic	1.00	+/-1.00	U	1.00	P	10/14/2019	12:22	LB105691
	Barium	10.0	+/-10.0	U	10.0	P	10/14/2019	12:22	LB105691
	Beryllium	1.00	+/-1.00	U	1.00	P	10/14/2019	12:22	LB105691
	Cadmium	1.00	+/-1.00	U	1.00	P	10/14/2019	12:22	LB105691
	Calcium	500	+/-500	U	500	P	10/14/2019	12:22	LB105691
	Chromium	2.00	+/-2.00	U	2.00	P	10/14/2019	12:22	LB105691
	Cobalt	1.00	+/-1.00	U	1.00	P	10/14/2019	12:22	LB105691
	Copper	2.00	+/-2.00	U	2.00	P	10/14/2019	12:22	LB105691
	Iron	50.0	+/-50.0	U	50.0	P	10/14/2019	12:22	LB105691
	Lead	1.00	+/-1.00	U	1.00	P	10/14/2019	12:22	LB105691
	Magnesium	500	+/-500	U	500	P	10/14/2019	12:22	LB105691
	Manganese	1.00	+/-1.00	U	1.00	P	10/14/2019	12:22	LB105691
	Nickel	1.00	+/-1.00	U	1.00	P	10/14/2019	12:22	LB105691
	Potassium	500	+/-500	U	500	P	10/14/2019	12:22	LB105691
	Selenium	5.00	+/-5.00	U	5.00	P	10/14/2019	12:22	LB105691
	Silver	1.00	+/-1.00	U	1.00	P	10/14/2019	12:22	LB105691
	Sodium	500	+/-500	U	500	P	10/14/2019	12:22	LB105691
	Thallium	1.00	+/-1.00	U	1.00	P	10/14/2019	12:22	LB105691
	Vanadium	5.00	+/-5.00	U	5.00	P	10/14/2019	12:22	LB105691
	Zinc	2.00	+/-2.00	U	2.00	P	10/14/2019	12:22	LB105691

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc.

SDG No.: K5154

Contract: TRCE03

Lab Code: CHEM

Case No.: K5154

SAS No.: K5154

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB51	Aluminum	20.0	+/-20.0	U	20.0	P	10/14/2019	12:37	LB105691
	Antimony	0.27	+/-2.00	J	2.00	P	10/14/2019	12:37	LB105691
	Arsenic	1.00	+/-1.00	U	1.00	P	10/14/2019	12:37	LB105691
	Barium	10.0	+/-10.0	U	10.0	P	10/14/2019	12:37	LB105691
	Beryllium	1.00	+/-1.00	U	1.00	P	10/14/2019	12:37	LB105691
	Cadmium	1.00	+/-1.00	U	1.00	P	10/14/2019	12:37	LB105691
	Calcium	19.8	+/-500	J	500	P	10/14/2019	12:37	LB105691
	Chromium	2.00	+/-2.00	U	2.00	P	10/14/2019	12:37	LB105691
	Cobalt	1.00	+/-1.00	U	1.00	P	10/14/2019	12:37	LB105691
	Copper	2.00	+/-2.00	U	2.00	P	10/14/2019	12:37	LB105691
	Iron	6.20	+/-50.0	J	50.0	P	10/14/2019	12:37	LB105691
	Lead	0.12	+/-1.00	J	1.00	P	10/14/2019	12:37	LB105691
	Magnesium	10.1	+/-500	J	500	P	10/14/2019	12:37	LB105691
	Manganese	1.00	+/-1.00	U	1.00	P	10/14/2019	12:37	LB105691
	Nickel	1.00	+/-1.00	U	1.00	P	10/14/2019	12:37	LB105691
	Potassium	27.8	+/-500	J	500	P	10/14/2019	12:37	LB105691
	Selenium	5.00	+/-5.00	U	5.00	P	10/14/2019	12:37	LB105691
	Silver	1.00	+/-1.00	U	1.00	P	10/14/2019	12:37	LB105691
	Sodium	60.0	+/-500	J	500	P	10/14/2019	12:37	LB105691
	Thallium	0.12	+/-1.00	J	1.00	P	10/14/2019	12:37	LB105691
CCB52	Vanadium	5.00	+/-5.00	U	5.00	P	10/14/2019	12:37	LB105691
	Zinc	2.00	+/-2.00	U	2.00	P	10/14/2019	12:37	LB105691
	Aluminum	6.10	+/-20.0	J	20.0	P	10/14/2019	13:20	LB105691
	Antimony	0.39	+/-2.00	J	2.00	P	10/14/2019	13:20	LB105691
	Arsenic	1.00	+/-1.00	U	1.00	P	10/14/2019	13:20	LB105691
	Barium	0.40	+/-10.0	J	10.0	P	10/14/2019	13:20	LB105691
	Beryllium	0.10	+/-1.00	J	1.00	P	10/14/2019	13:20	LB105691
	Cadmium	1.00	+/-1.00	U	1.00	P	10/14/2019	13:20	LB105691
	Calcium	41.7	+/-500	J	500	P	10/14/2019	13:20	LB105691
	Chromium	2.00	+/-2.00	U	2.00	P	10/14/2019	13:20	LB105691
	Cobalt	1.00	+/-1.00	U	1.00	P	10/14/2019	13:20	LB105691
	Copper	2.00	+/-2.00	U	2.00	P	10/14/2019	13:20	LB105691
	Iron	14.1	+/-50.0	J	50.0	P	10/14/2019	13:20	LB105691
	Lead	0.080	+/-1.00	J	1.00	P	10/14/2019	13:20	LB105691
	Magnesium	25.8	+/-500	J	500	P	10/14/2019	13:20	LB105691
	Manganese	0.080	+/-1.00	J	1.00	P	10/14/2019	13:20	LB105691
	Nickel	1.00	+/-1.00	U	1.00	P	10/14/2019	13:20	LB105691
	Potassium	39.4	+/-500	J	500	P	10/14/2019	13:20	LB105691
	Selenium	5.00	+/-5.00	U	5.00	P	10/14/2019	13:20	LB105691
	Silver	1.00	+/-1.00	U	1.00	P	10/14/2019	13:20	LB105691

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc.

SDG No.: K5154

Contract: TRCE03

Lab Code: CHEM

Case No.: K5154

SAS No.: K5154

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB52	Sodium	70.5	+/-500	J	500	P	10/14/2019	13:20	LB105691
	Thallium	0.14	+/-1.00	J	1.00	P	10/14/2019	13:20	LB105691
	Vanadium	5.00	+/-5.00	U	5.00	P	10/14/2019	13:20	LB105691
	Zinc	2.00	+/-2.00	U	2.00	P	10/14/2019	13:20	LB105691
CCB53	Aluminum	6.45	+/-20.0	J	20.0	P	10/14/2019	14:23	LB105691
	Antimony	0.36	+/-2.00	J	2.00	P	10/14/2019	14:23	LB105691
	Arsenic	1.00	+/-1.00	U	1.00	P	10/14/2019	14:23	LB105691
	Barium	0.32	+/-10.0	J	10.0	P	10/14/2019	14:23	LB105691
	Beryllium	0.10	+/-1.00	J	1.00	P	10/14/2019	14:23	LB105691
	Cadmium	1.00	+/-1.00	U	1.00	P	10/14/2019	14:23	LB105691
	Calcium	31.6	+/-500	J	500	P	10/14/2019	14:23	LB105691
	Chromium	2.00	+/-2.00	U	2.00	P	10/14/2019	14:23	LB105691
	Cobalt	1.00	+/-1.00	U	1.00	P	10/14/2019	14:23	LB105691
	Copper	0.57	+/-2.00	J	2.00	P	10/14/2019	14:23	LB105691
	Iron	15.5	+/-50.0	J	50.0	P	10/14/2019	14:23	LB105691
	Lead	0.14	+/-1.00	J	1.00	P	10/14/2019	14:23	LB105691
	Magnesium	26.1	+/-500	J	500	P	10/14/2019	14:23	LB105691
	Manganese	1.00	+/-1.00	U	1.00	P	10/14/2019	14:23	LB105691
	Nickel	1.00	+/-1.00	U	1.00	P	10/14/2019	14:23	LB105691
	Potassium	39.7	+/-500	J	500	P	10/14/2019	14:23	LB105691
	Selenium	5.00	+/-5.00	U	5.00	P	10/14/2019	14:23	LB105691
	Silver	1.00	+/-1.00	U	1.00	P	10/14/2019	14:23	LB105691
	Sodium	97.6	+/-500	J	500	P	10/14/2019	14:23	LB105691
	Thallium	0.17	+/-1.00	J	1.00	P	10/14/2019	14:23	LB105691
CCB54	Vanadium	5.00	+/-5.00	U	5.00	P	10/14/2019	14:23	LB105691
	Zinc	2.00	+/-2.00	U	2.00	P	10/14/2019	14:23	LB105691
	Aluminum	5.34	+/-20.0	J	20.0	P	10/14/2019	15:14	LB105691
	Antimony	0.23	+/-2.00	J	2.00	P	10/14/2019	15:14	LB105691
	Arsenic	1.00	+/-1.00	U	1.00	P	10/14/2019	15:14	LB105691
	Barium	0.27	+/-10.0	J	10.0	P	10/14/2019	15:14	LB105691
	Beryllium	0.11	+/-1.00	J	1.00	P	10/14/2019	15:14	LB105691
	Cadmium	1.00	+/-1.00	U	1.00	P	10/14/2019	15:14	LB105691
	Calcium	34.9	+/-500	J	500	P	10/14/2019	15:14	LB105691
	Chromium	0.10	+/-2.00	J	2.00	P	10/14/2019	15:14	LB105691
	Cobalt	1.00	+/-1.00	U	1.00	P	10/14/2019	15:14	LB105691
	Copper	0.80	+/-2.00	J	2.00	P	10/14/2019	15:14	LB105691
	Iron	14.1	+/-50.0	J	50.0	P	10/14/2019	15:14	LB105691
	Lead	0.14	+/-1.00	J	1.00	P	10/14/2019	15:14	LB105691
	Magnesium	28.7	+/-500	J	500	P	10/14/2019	15:14	LB105691
	Manganese	0.10	+/-1.00	J	1.00	P	10/14/2019	15:14	LB105691

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc.

SDG No.: K5154

Contract: TRCE03

Lab Code: CHEM

Case No.: K5154

SAS No.: K5154

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB54	Nickel	1.00	+/-1.00	U	1.00	P	10/14/2019	15:14	LB105691
	Potassium	31.2	+/-500	J	500	P	10/14/2019	15:14	LB105691
	Selenium	5.00	+/-5.00	U	5.00	P	10/14/2019	15:14	LB105691
	Silver	1.00	+/-1.00	U	1.00	P	10/14/2019	15:14	LB105691
	Sodium	94.7	+/-500	J	500	P	10/14/2019	15:14	LB105691
	Thallium	0.12	+/-1.00	J	1.00	P	10/14/2019	15:14	LB105691
	Vanadium	5.00	+/-5.00	U	5.00	P	10/14/2019	15:14	LB105691
	Zinc	2.00	+/-2.00	U	2.00	P	10/14/2019	15:14	LB105691
CCB55	Aluminum	20.0	+/-20.0	U	20.0	P	10/14/2019	16:08	LB105691
	Antimony	0.20	+/-2.00	J	2.00	P	10/14/2019	16:08	LB105691
	Arsenic	1.00	+/-1.00	U	1.00	P	10/14/2019	16:08	LB105691
	Barium	10.0	+/-10.0	U	10.0	P	10/14/2019	16:08	LB105691
	Beryllium	1.00	+/-1.00	U	1.00	P	10/14/2019	16:08	LB105691
	Cadmium	1.00	+/-1.00	U	1.00	P	10/14/2019	16:08	LB105691
	Calcium	500	+/-500	U	500	P	10/14/2019	16:08	LB105691
	Chromium	2.00	+/-2.00	U	2.00	P	10/14/2019	16:08	LB105691
	Cobalt	1.00	+/-1.00	U	1.00	P	10/14/2019	16:08	LB105691
	Copper	2.00	+/-2.00	U	2.00	P	10/14/2019	16:08	LB105691
	Iron	2.70	+/-50.0	J	50.0	P	10/14/2019	16:08	LB105691
	Lead	0.080	+/-1.00	J	1.00	P	10/14/2019	16:08	LB105691
	Magnesium	500	+/-500	U	500	P	10/14/2019	16:08	LB105691
	Manganese	1.00	+/-1.00	U	1.00	P	10/14/2019	16:08	LB105691
	Nickel	1.00	+/-1.00	U	1.00	P	10/14/2019	16:08	LB105691
	Potassium	500	+/-500	U	500	P	10/14/2019	16:08	LB105691
	Selenium	5.00	+/-5.00	U	5.00	P	10/14/2019	16:08	LB105691
	Silver	1.00	+/-1.00	U	1.00	P	10/14/2019	16:08	LB105691
	Sodium	49.5	+/-500	J	500	P	10/14/2019	16:08	LB105691
	Thallium	0.090	+/-1.00	J	1.00	P	10/14/2019	16:08	LB105691
	Vanadium	5.00	+/-5.00	U	5.00	P	10/14/2019	16:08	LB105691
	Zinc	2.00	+/-2.00	U	2.00	P	10/14/2019	16:08	LB105691
CCB56	Aluminum	20.0	+/-20.0	U	20.0	P	10/14/2019	17:33	LB105691
	Antimony	0.16	+/-2.00	J	2.00	P	10/14/2019	17:33	LB105691
	Arsenic	1.00	+/-1.00	U	1.00	P	10/14/2019	17:33	LB105691
	Barium	10.0	+/-10.0	U	10.0	P	10/14/2019	17:33	LB105691
	Beryllium	1.00	+/-1.00	U	1.00	P	10/14/2019	17:33	LB105691
	Cadmium	1.00	+/-1.00	U	1.00	P	10/14/2019	17:33	LB105691
	Calcium	17.1	+/-500	J	500	P	10/14/2019	17:33	LB105691
	Chromium	2.00	+/-2.00	U	2.00	P	10/14/2019	17:33	LB105691
	Cobalt	1.00	+/-1.00	U	1.00	P	10/14/2019	17:33	LB105691
	Copper	2.00	+/-2.00	U	2.00	P	10/14/2019	17:33	LB105691

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc.

SDG No.: K5154

Contract: TRCE03

Lab Code: CHEM

Case No.: K5154

SAS No.: K5154

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB56	Iron	6.69	+/-50.0	J	50.0	P	10/14/2019	17:33	LB105691
	Lead	0.060	+/-1.00	J	1.00	P	10/14/2019	17:33	LB105691
	Magnesium	15.6	+/-500	J	500	P	10/14/2019	17:33	LB105691
	Manganese	1.00	+/-1.00	U	1.00	P	10/14/2019	17:33	LB105691
	Nickel	1.00	+/-1.00	U	1.00	P	10/14/2019	17:33	LB105691
	Potassium	20.2	+/-500	J	500	P	10/14/2019	17:33	LB105691
	Selenium	5.00	+/-5.00	U	5.00	P	10/14/2019	17:33	LB105691
	Silver	1.00	+/-1.00	U	1.00	P	10/14/2019	17:33	LB105691
	Sodium	46.8	+/-500	J	500	P	10/14/2019	17:33	LB105691
	Thallium	0.070	+/-1.00	J	1.00	P	10/14/2019	17:33	LB105691
	Vanadium	5.00	+/-5.00	U	5.00	P	10/14/2019	17:33	LB105691
	Zinc	2.00	+/-2.00	U	2.00	P	10/14/2019	17:33	LB105691
CCB57	Aluminum	7.78	+/-20.0	J	20.0	P	10/14/2019	18:19	LB105691
	Antimony	0.42	+/-2.00	J	2.00	P	10/14/2019	18:19	LB105691
	Arsenic	1.00	+/-1.00	U	1.00	P	10/14/2019	18:19	LB105691
	Barium	0.52	+/-10.0	J	10.0	P	10/14/2019	18:19	LB105691
	Beryllium	0.12	+/-1.00	J	1.00	P	10/14/2019	18:19	LB105691
	Cadmium	1.00	+/-1.00	U	1.00	P	10/14/2019	18:19	LB105691
	Calcium	56.1	+/-500	J	500	P	10/14/2019	18:19	LB105691
	Chromium	0.13	+/-2.00	J	2.00	P	10/14/2019	18:19	LB105691
	Cobalt	0.070	+/-1.00	J	1.00	P	10/14/2019	18:19	LB105691
	Copper	2.00	+/-2.00	U	2.00	P	10/14/2019	18:19	LB105691
	Iron	18.1	+/-50.0	J	50.0	P	10/14/2019	18:19	LB105691
	Lead	0.14	+/-1.00	J	1.00	P	10/14/2019	18:19	LB105691
	Magnesium	39.6	+/-500	J	500	P	10/14/2019	18:19	LB105691
	Manganese	0.20	+/-1.00	J	1.00	P	10/14/2019	18:19	LB105691
	Nickel	1.00	+/-1.00	U	1.00	P	10/14/2019	18:19	LB105691
	Potassium	28.4	+/-500	J	500	P	10/14/2019	18:19	LB105691
	Selenium	5.00	+/-5.00	U	5.00	P	10/14/2019	18:19	LB105691
	Silver	1.00	+/-1.00	U	1.00	P	10/14/2019	18:19	LB105691
	Sodium	83.3	+/-500	J	500	P	10/14/2019	18:19	LB105691
	Thallium	0.19	+/-1.00	J	1.00	P	10/14/2019	18:19	LB105691
CCB58	Vanadium	0.080	+/-5.00	J	5.00	P	10/14/2019	18:19	LB105691
	Zinc	2.00	+/-2.00	U	2.00	P	10/14/2019	18:19	LB105691
	Aluminum	20.0	+/-20.0	U	20.0	P	10/14/2019	19:10	LB105691
	Antimony	0.27	+/-2.00	J	2.00	P	10/14/2019	19:10	LB105691
	Arsenic	1.00	+/-1.00	U	1.00	P	10/14/2019	19:10	LB105691
	Barium	0.23	+/-10.0	J	10.0	P	10/14/2019	19:10	LB105691
	Beryllium	0.090	+/-1.00	J	1.00	P	10/14/2019	19:10	LB105691
	Cadmium	1.00	+/-1.00	U	1.00	P	10/14/2019	19:10	LB105691

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc.

SDG No.: K5154

Contract: TRCE03

Lab Code: CHEM

Case No.: K5154

SAS No.: K5154

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB58	Calcium	27.7	+/-500	J	500	P	10/14/2019	19:10	LB105691
	Chromium	2.00	+/-2.00	U	2.00	P	10/14/2019	19:10	LB105691
	Cobalt	1.00	+/-1.00	U	1.00	P	10/14/2019	19:10	LB105691
	Copper	2.00	+/-2.00	U	2.00	P	10/14/2019	19:10	LB105691
	Iron	9.59	+/-50.0	J	50.0	P	10/14/2019	19:10	LB105691
	Lead	0.070	+/-1.00	J	1.00	P	10/14/2019	19:10	LB105691
	Magnesium	18.5	+/-500	J	500	P	10/14/2019	19:10	LB105691
	Manganese	0.15	+/-1.00	J	1.00	P	10/14/2019	19:10	LB105691
	Nickel	1.00	+/-1.00	U	1.00	P	10/14/2019	19:10	LB105691
	Potassium	25.4	+/-500	J	500	P	10/14/2019	19:10	LB105691
	Selenium	5.00	+/-5.00	U	5.00	P	10/14/2019	19:10	LB105691
	Silver	1.00	+/-1.00	U	1.00	P	10/14/2019	19:10	LB105691
	Sodium	60.9	+/-500	J	500	P	10/14/2019	19:10	LB105691
	Thallium	0.12	+/-1.00	J	1.00	P	10/14/2019	19:10	LB105691
	Vanadium	5.00	+/-5.00	U	5.00	P	10/14/2019	19:10	LB105691
	Zinc	2.00	+/-2.00	U	2.00	P	10/14/2019	19:10	LB105691
CCB59	Aluminum	5.43	+/-20.0	J	20.0	P	10/14/2019	20:22	LB105691
	Antimony	0.38	+/-2.00	J	2.00	P	10/14/2019	20:22	LB105691
	Arsenic	1.00	+/-1.00	U	1.00	P	10/14/2019	20:22	LB105691
	Barium	0.43	+/-10.0	J	10.0	P	10/14/2019	20:22	LB105691
	Beryllium	0.13	+/-1.00	J	1.00	P	10/14/2019	20:22	LB105691
	Cadmium	1.00	+/-1.00	U	1.00	P	10/14/2019	20:22	LB105691
	Calcium	49.6	+/-500	J	500	P	10/14/2019	20:22	LB105691
	Chromium	2.00	+/-2.00	U	2.00	P	10/14/2019	20:22	LB105691
	Cobalt	1.00	+/-1.00	U	1.00	P	10/14/2019	20:22	LB105691
	Copper	2.00	+/-2.00	U	2.00	P	10/14/2019	20:22	LB105691
	Iron	15.3	+/-50.0	J	50.0	P	10/14/2019	20:22	LB105691
	Lead	0.11	+/-1.00	J	1.00	P	10/14/2019	20:22	LB105691
	Magnesium	29.9	+/-500	J	500	P	10/14/2019	20:22	LB105691
	Manganese	0.29	+/-1.00	J	1.00	P	10/14/2019	20:22	LB105691
	Nickel	1.00	+/-1.00	U	1.00	P	10/14/2019	20:22	LB105691
	Potassium	28.4	+/-500	J	500	P	10/14/2019	20:22	LB105691
	Selenium	5.00	+/-5.00	U	5.00	P	10/14/2019	20:22	LB105691
	Silver	1.00	+/-1.00	U	1.00	P	10/14/2019	20:22	LB105691
	Sodium	66.1	+/-500	J	500	P	10/14/2019	20:22	LB105691
	Thallium	0.16	+/-1.00	J	1.00	P	10/14/2019	20:22	LB105691
	Vanadium	5.00	+/-5.00	U	5.00	P	10/14/2019	20:22	LB105691
	Zinc	2.00	+/-2.00	U	2.00	P	10/14/2019	20:22	LB105691
CCB60	Aluminum	20.0	+/-20.0	U	20.0	P	10/14/2019	21:13	LB105691
	Antimony	0.30	+/-2.00	J	2.00	P	10/14/2019	21:13	LB105691

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc.

SDG No.: K5154

Contract: TRCE03

Lab Code: CHEM

Case No.: K5154

SAS No.: K5154

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB60	Arsenic	1.00	+/-1.00	U	1.00	P	10/14/2019	21:13	LB105691
	Barium	10.0	+/-10.0	U	10.0	P	10/14/2019	21:13	LB105691
	Beryllium	1.00	+/-1.00	U	1.00	P	10/14/2019	21:13	LB105691
	Cadmium	1.00	+/-1.00	U	1.00	P	10/14/2019	21:13	LB105691
	Calcium	17.8	+/-500	J	500	P	10/14/2019	21:13	LB105691
	Chromium	2.00	+/-2.00	U	2.00	P	10/14/2019	21:13	LB105691
	Cobalt	1.00	+/-1.00	U	1.00	P	10/14/2019	21:13	LB105691
	Copper	2.00	+/-2.00	U	2.00	P	10/14/2019	21:13	LB105691
	Iron	7.63	+/-50.0	J	50.0	P	10/14/2019	21:13	LB105691
	Lead	0.060	+/-1.00	J	1.00	P	10/14/2019	21:13	LB105691
	Magnesium	14.2	+/-500	J	500	P	10/14/2019	21:13	LB105691
	Manganese	0.11	+/-1.00	J	1.00	P	10/14/2019	21:13	LB105691
	Nickel	1.00	+/-1.00	U	1.00	P	10/14/2019	21:13	LB105691
	Potassium	28.4	+/-500	J	500	P	10/14/2019	21:13	LB105691
	Selenium	5.00	+/-5.00	U	5.00	P	10/14/2019	21:13	LB105691
	Silver	1.00	+/-1.00	U	1.00	P	10/14/2019	21:13	LB105691
	Sodium	63.2	+/-500	J	500	P	10/14/2019	21:13	LB105691
	Thallium	0.16	+/-1.00	J	1.00	P	10/14/2019	21:13	LB105691
	Vanadium	5.00	+/-5.00	U	5.00	P	10/14/2019	21:13	LB105691
	Zinc	2.00	+/-2.00	U	2.00	P	10/14/2019	21:13	LB105691
CCB61	Aluminum	20.0	+/-20.0	U	20.0	P	10/14/2019	22:05	LB105691
	Antimony	0.24	+/-2.00	J	2.00	P	10/14/2019	22:05	LB105691
	Arsenic	1.00	+/-1.00	U	1.00	P	10/14/2019	22:05	LB105691
	Barium	10.0	+/-10.0	U	10.0	P	10/14/2019	22:05	LB105691
	Beryllium	0.080	+/-1.00	J	1.00	P	10/14/2019	22:05	LB105691
	Cadmium	1.00	+/-1.00	U	1.00	P	10/14/2019	22:05	LB105691
	Calcium	19.2	+/-500	J	500	P	10/14/2019	22:05	LB105691
	Chromium	2.00	+/-2.00	U	2.00	P	10/14/2019	22:05	LB105691
	Cobalt	1.00	+/-1.00	U	1.00	P	10/14/2019	22:05	LB105691
	Copper	2.00	+/-2.00	U	2.00	P	10/14/2019	22:05	LB105691
	Iron	7.02	+/-50.0	J	50.0	P	10/14/2019	22:05	LB105691
	Lead	0.050	+/-1.00	J	1.00	P	10/14/2019	22:05	LB105691
	Magnesium	13.8	+/-500	J	500	P	10/14/2019	22:05	LB105691
	Manganese	1.00	+/-1.00	U	1.00	P	10/14/2019	22:05	LB105691
	Nickel	1.00	+/-1.00	U	1.00	P	10/14/2019	22:05	LB105691
	Potassium	23.8	+/-500	J	500	P	10/14/2019	22:05	LB105691
	Selenium	5.00	+/-5.00	U	5.00	P	10/14/2019	22:05	LB105691
	Silver	1.00	+/-1.00	U	1.00	P	10/14/2019	22:05	LB105691
	Sodium	63.6	+/-500	J	500	P	10/14/2019	22:05	LB105691
	Thallium	0.13	+/-1.00	J	1.00	P	10/14/2019	22:05	LB105691

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc.

SDG No.: K5154

Contract: TRCE03

Lab Code: CHEM

Case No.: K5154

SAS No.: K5154

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB61	Vanadium	5.00	+/-5.00	U	5.00	P	10/14/2019	22:05	LB105691
	Zinc	2.00	+/-2.00	U	2.00	P	10/14/2019	22:05	LB105691
CCB62	Aluminum	20.0	+/-20.0	U	20.0	P	10/14/2019	22:48	LB105691
	Antimony	0.37	+/-2.00	J	2.00	P	10/14/2019	22:48	LB105691
	Arsenic	1.00	+/-1.00	U	1.00	P	10/14/2019	22:48	LB105691
	Barium	0.28	+/-10.0	J	10.0	P	10/14/2019	22:48	LB105691
	Beryllium	0.12	+/-1.00	J	1.00	P	10/14/2019	22:48	LB105691
	Cadmium	1.00	+/-1.00	U	1.00	P	10/14/2019	22:48	LB105691
	Calcium	39.9	+/-500	J	500	P	10/14/2019	22:48	LB105691
	Chromium	2.00	+/-2.00	U	2.00	P	10/14/2019	22:48	LB105691
	Cobalt	1.00	+/-1.00	U	1.00	P	10/14/2019	22:48	LB105691
	Copper	2.00	+/-2.00	U	2.00	P	10/14/2019	22:48	LB105691
	Iron	4.90	+/-50.0	J	50.0	P	10/14/2019	22:48	LB105691
	Lead	0.060	+/-1.00	J	1.00	P	10/14/2019	22:48	LB105691
	Magnesium	9.74	+/-500	J	500	P	10/14/2019	22:48	LB105691
	Manganese	1.00	+/-1.00	U	1.00	P	10/14/2019	22:48	LB105691
	Nickel	1.00	+/-1.00	U	1.00	P	10/14/2019	22:48	LB105691
	Potassium	19.9	+/-500	J	500	P	10/14/2019	22:48	LB105691
	Selenium	5.00	+/-5.00	U	5.00	P	10/14/2019	22:48	LB105691
	Silver	1.00	+/-1.00	U	1.00	P	10/14/2019	22:48	LB105691
	Sodium	58.1	+/-500	J	500	P	10/14/2019	22:48	LB105691
	Thallium	0.13	+/-1.00	J	1.00	P	10/14/2019	22:48	LB105691
CCB63	Vanadium	5.00	+/-5.00	U	5.00	P	10/14/2019	22:48	LB105691
	Zinc	2.00	+/-2.00	U	2.00	P	10/14/2019	22:48	LB105691
	Aluminum	20.0	+/-20.0	U	20.0	P	10/14/2019	23:17	LB105691
	Antimony	0.34	+/-2.00	J	2.00	P	10/14/2019	23:17	LB105691
	Arsenic	1.00	+/-1.00	U	1.00	P	10/14/2019	23:17	LB105691
	Barium	0.27	+/-10.0	J	10.0	P	10/14/2019	23:17	LB105691
	Beryllium	0.10	+/-1.00	J	1.00	P	10/14/2019	23:17	LB105691
	Cadmium	1.00	+/-1.00	U	1.00	P	10/14/2019	23:17	LB105691
	Calcium	33.0	+/-500	J	500	P	10/14/2019	23:17	LB105691
	Chromium	2.00	+/-2.00	U	2.00	P	10/14/2019	23:17	LB105691
	Cobalt	1.00	+/-1.00	U	1.00	P	10/14/2019	23:17	LB105691
	Copper	2.00	+/-2.00	U	2.00	P	10/14/2019	23:17	LB105691
	Iron	8.11	+/-50.0	J	50.0	P	10/14/2019	23:17	LB105691
	Lead	0.060	+/-1.00	J	1.00	P	10/14/2019	23:17	LB105691
	Magnesium	14.4	+/-500	J	500	P	10/14/2019	23:17	LB105691
	Manganese	1.00	+/-1.00	U	1.00	P	10/14/2019	23:17	LB105691
	Nickel	1.00	+/-1.00	U	1.00	P	10/14/2019	23:17	LB105691
	Potassium	21.1	+/-500	J	500	P	10/14/2019	23:17	LB105691

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc.

SDG No.: K5154

Contract: TRCE03

Lab Code: CHEM

Case No.: K5154

SAS No.: K5154

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB63	Selenium	5.00	+/-5.00	U	5.00	P	10/14/2019	23:17	LB105691
	Silver	1.00	+/-1.00	U	1.00	P	10/14/2019	23:17	LB105691
	Sodium	62.4	+/-500	J	500	P	10/14/2019	23:17	LB105691
	Thallium	0.17	+/-1.00	J	1.00	P	10/14/2019	23:17	LB105691
	Vanadium	5.00	+/-5.00	U	5.00	P	10/14/2019	23:17	LB105691
	Zinc	2.00	+/-2.00	U	2.00	P	10/14/2019	23:17	LB105691

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc.

SDG No.: K5154

Contract: TRCE03

Lab Code: CHEM

Case No.: K5154

SAS No.: K5154

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	20.0	+/-20.0	U	20.0	P	10/16/2019	13:23	LB105753
	Antimony	0.090	+/-2.00	J	2.00	P	10/16/2019	13:23	LB105753
	Arsenic	1.00	+/-1.00	U	1.00	P	10/16/2019	13:23	LB105753
	Barium	10.0	+/-10.0	U	10.0	P	10/16/2019	13:23	LB105753
	Beryllium	1.00	+/-1.00	U	1.00	P	10/16/2019	13:23	LB105753
	Cadmium	1.00	+/-1.00	U	1.00	P	10/16/2019	13:23	LB105753
	Calcium	500	+/-500	U	500	P	10/16/2019	13:23	LB105753
	Chromium	2.00	+/-2.00	U	2.00	P	10/16/2019	13:23	LB105753
	Cobalt	1.00	+/-1.00	U	1.00	P	10/16/2019	13:23	LB105753
	Copper	2.00	+/-2.00	U	2.00	P	10/16/2019	13:23	LB105753
	Iron	50.0	+/-50.0	U	50.0	P	10/16/2019	13:23	LB105753
	Lead	1.00	+/-1.00	U	1.00	P	10/16/2019	13:23	LB105753
	Magnesium	500	+/-500	U	500	P	10/16/2019	13:23	LB105753
	Manganese	1.00	+/-1.00	U	1.00	P	10/16/2019	13:23	LB105753
	Nickel	1.00	+/-1.00	U	1.00	P	10/16/2019	13:23	LB105753
	Potassium	500	+/-500	U	500	P	10/16/2019	13:23	LB105753
	Selenium	5.00	+/-5.00	U	5.00	P	10/16/2019	13:23	LB105753
	Silver	1.00	+/-1.00	U	1.00	P	10/16/2019	13:23	LB105753
	Sodium	500	+/-500	U	500	P	10/16/2019	13:23	LB105753
	Thallium	0.040	+/-1.00	J	1.00	P	10/16/2019	13:23	LB105753
	Vanadium	5.00	+/-5.00	U	5.00	P	10/16/2019	13:23	LB105753
	Zinc	2.00	+/-2.00	U	2.00	P	10/16/2019	13:23	LB105753

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc.

SDG No.: K5154

Contract: TRCE03

Lab Code: CHEM

Case No.: K5154

SAS No.: K5154

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB70	Aluminum	20.0	+/-20.0	U	20.0	P	10/16/2019	13:47	LB105753
	Antimony	2.00	+/-2.00	U	2.00	P	10/16/2019	13:47	LB105753
	Arsenic	1.00	+/-1.00	U	1.00	P	10/16/2019	13:47	LB105753
	Barium	10.0	+/-10.0	U	10.0	P	10/16/2019	13:47	LB105753
	Beryllium	1.00	+/-1.00	U	1.00	P	10/16/2019	13:47	LB105753
	Cadmium	1.00	+/-1.00	U	1.00	P	10/16/2019	13:47	LB105753
	Calcium	500	+/-500	U	500	P	10/16/2019	13:47	LB105753
	Chromium	2.00	+/-2.00	U	2.00	P	10/16/2019	13:47	LB105753
	Cobalt	1.00	+/-1.00	U	1.00	P	10/16/2019	13:47	LB105753
	Copper	2.00	+/-2.00	U	2.00	P	10/16/2019	13:47	LB105753
	Iron	50.0	+/-50.0	U	50.0	P	10/16/2019	13:47	LB105753
	Lead	0.020	+/-1.00	J	1.00	P	10/16/2019	13:47	LB105753
	Magnesium	500	+/-500	U	500	P	10/16/2019	13:47	LB105753
	Manganese	1.00	+/-1.00	U	1.00	P	10/16/2019	13:47	LB105753
	Nickel	1.00	+/-1.00	U	1.00	P	10/16/2019	13:47	LB105753
	Potassium	500	+/-500	U	500	P	10/16/2019	13:47	LB105753
	Selenium	5.00	+/-5.00	U	5.00	P	10/16/2019	13:47	LB105753
	Silver	1.00	+/-1.00	U	1.00	P	10/16/2019	13:47	LB105753
	Sodium	500	+/-500	U	500	P	10/16/2019	13:47	LB105753
	Thallium	1.00	+/-1.00	U	1.00	P	10/16/2019	13:47	LB105753
	Vanadium	5.00	+/-5.00	U	5.00	P	10/16/2019	13:47	LB105753
	Zinc	2.00	+/-2.00	U	2.00	P	10/16/2019	13:47	LB105753
CCB71	Aluminum	20.0	+/-20.0	U	20.0	P	10/16/2019	14:27	LB105753
	Antimony	0.31	+/-2.00	J	2.00	P	10/16/2019	14:27	LB105753
	Arsenic	1.00	+/-1.00	U	1.00	P	10/16/2019	14:27	LB105753
	Barium	10.0	+/-10.0	U	10.0	P	10/16/2019	14:27	LB105753
	Beryllium	0.090	+/-1.00	J	1.00	P	10/16/2019	14:27	LB105753
	Cadmium	1.00	+/-1.00	U	1.00	P	10/16/2019	14:27	LB105753
	Calcium	500	+/-500	U	500	P	10/16/2019	14:27	LB105753
	Chromium	2.00	+/-2.00	U	2.00	P	10/16/2019	14:27	LB105753
	Cobalt	1.00	+/-1.00	U	1.00	P	10/16/2019	14:27	LB105753
	Copper	2.00	+/-2.00	U	2.00	P	10/16/2019	14:27	LB105753
	Iron	50.0	+/-50.0	U	50.0	P	10/16/2019	14:27	LB105753
	Lead	0.070	+/-1.00	J	1.00	P	10/16/2019	14:27	LB105753
	Magnesium	500	+/-500	U	500	P	10/16/2019	14:27	LB105753
	Manganese	1.00	+/-1.00	U	1.00	P	10/16/2019	14:27	LB105753
	Nickel	1.00	+/-1.00	U	1.00	P	10/16/2019	14:27	LB105753
	Potassium	23.0	+/-500	J	500	P	10/16/2019	14:27	LB105753
	Selenium	5.00	+/-5.00	U	5.00	P	10/16/2019	14:27	LB105753
	Silver	1.00	+/-1.00	U	1.00	P	10/16/2019	14:27	LB105753

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc. **SDG No.:** K5154
Contract: TRCE03 **Lab Code:** CHEM **Case No.:** K5154 **SAS No.:** K5154

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB71	Sodium	51.9	+/-500	J	500	P	10/16/2019	14:27	LB105753
	Thallium	0.12	+/-1.00	J	1.00	P	10/16/2019	14:27	LB105753
	Vanadium	5.00	+/-5.00	U	5.00	P	10/16/2019	14:27	LB105753
	Zinc	2.00	+/-2.00	U	2.00	P	10/16/2019	14:27	LB105753

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc.

SDG No.: K5154

Contract: TRCE03

Lab Code: CHEM

Case No.: K5154

SAS No.: K5154

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	20.0	+/-20.0	U	20.0	P	10/17/2019	17:58	LB105778
	Antimony	0.14	+/-2.00	J	2.00	P	10/17/2019	17:58	LB105778
	Arsenic	1.00	+/-1.00	U	1.00	P	10/17/2019	17:58	LB105778
	Barium	10.0	+/-10.0	U	10.0	P	10/17/2019	17:58	LB105778
	Beryllium	1.00	+/-1.00	U	1.00	P	10/17/2019	17:58	LB105778
	Cadmium	1.00	+/-1.00	U	1.00	P	10/17/2019	17:58	LB105778
	Calcium	500	+/-500	U	500	P	10/17/2019	17:58	LB105778
	Chromium	2.00	+/-2.00	U	2.00	P	10/17/2019	17:58	LB105778
	Cobalt	1.00	+/-1.00	U	1.00	P	10/17/2019	17:58	LB105778
	Copper	2.00	+/-2.00	U	2.00	P	10/17/2019	17:58	LB105778
	Iron	50.0	+/-50.0	U	50.0	P	10/17/2019	17:58	LB105778
	Lead	1.00	+/-1.00	U	1.00	P	10/17/2019	17:58	LB105778
	Magnesium	500	+/-500	U	500	P	10/17/2019	17:58	LB105778
	Manganese	1.00	+/-1.00	U	1.00	P	10/17/2019	17:58	LB105778
	Nickel	1.00	+/-1.00	U	1.00	P	10/17/2019	17:58	LB105778
	Potassium	500	+/-500	U	500	P	10/17/2019	17:58	LB105778
	Selenium	5.00	+/-5.00	U	5.00	P	10/17/2019	17:58	LB105778
	Silver	1.00	+/-1.00	U	1.00	P	10/17/2019	17:58	LB105778
	Sodium	500	+/-500	U	500	P	10/17/2019	17:58	LB105778
	Thallium	0.050	+/-1.00	J	1.00	P	10/17/2019	17:58	LB105778
	Vanadium	5.00	+/-5.00	U	5.00	P	10/17/2019	17:58	LB105778
	Zinc	2.00	+/-2.00	U	2.00	P	10/17/2019	17:58	LB105778

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc.

SDG No.: K5154

Contract: TRCE03

Lab Code: CHEM

Case No.: K5154

SAS No.: K5154

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB76	Aluminum	20.0	+/-20.0	U	20.0	P	10/17/2019	18:31	LB105778
	Antimony	2.00	+/-2.00	U	2.00	P	10/17/2019	18:31	LB105778
	Arsenic	1.00	+/-1.00	U	1.00	P	10/17/2019	18:31	LB105778
	Barium	10.0	+/-10.0	U	10.0	P	10/17/2019	18:31	LB105778
	Beryllium	1.00	+/-1.00	U	1.00	P	10/17/2019	18:31	LB105778
	Cadmium	1.00	+/-1.00	U	1.00	P	10/17/2019	18:31	LB105778
	Calcium	500	+/-500	U	500	P	10/17/2019	18:31	LB105778
	Chromium	2.00	+/-2.00	U	2.00	P	10/17/2019	18:31	LB105778
	Cobalt	1.00	+/-1.00	U	1.00	P	10/17/2019	18:31	LB105778
	Copper	2.00	+/-2.00	U	2.00	P	10/17/2019	18:31	LB105778
	Iron	50.0	+/-50.0	U	50.0	P	10/17/2019	18:31	LB105778
	Lead	1.00	+/-1.00	U	1.00	P	10/17/2019	18:31	LB105778
	Magnesium	500	+/-500	U	500	P	10/17/2019	18:31	LB105778
	Manganese	1.00	+/-1.00	U	1.00	P	10/17/2019	18:31	LB105778
	Nickel	1.00	+/-1.00	U	1.00	P	10/17/2019	18:31	LB105778
	Potassium	500	+/-500	U	500	P	10/17/2019	18:31	LB105778
	Selenium	5.00	+/-5.00	U	5.00	P	10/17/2019	18:31	LB105778
	Silver	1.00	+/-1.00	U	1.00	P	10/17/2019	18:31	LB105778
	Sodium	500	+/-500	U	500	P	10/17/2019	18:31	LB105778
	Thallium	1.00	+/-1.00	U	1.00	P	10/17/2019	18:31	LB105778
	Vanadium	5.00	+/-5.00	U	5.00	P	10/17/2019	18:31	LB105778
	Zinc	2.00	+/-2.00	U	2.00	P	10/17/2019	18:31	LB105778
CCB77	Aluminum	20.0	+/-20.0	U	20.0	P	10/17/2019	19:09	LB105778
	Antimony	0.32	+/-2.00	J	2.00	P	10/17/2019	19:09	LB105778
	Arsenic	1.00	+/-1.00	U	1.00	P	10/17/2019	19:09	LB105778
	Barium	10.0	+/-10.0	U	10.0	P	10/17/2019	19:09	LB105778
	Beryllium	0.070	+/-1.00	J	1.00	P	10/17/2019	19:09	LB105778
	Cadmium	1.00	+/-1.00	U	1.00	P	10/17/2019	19:09	LB105778
	Calcium	500	+/-500	U	500	P	10/17/2019	19:09	LB105778
	Chromium	2.00	+/-2.00	U	2.00	P	10/17/2019	19:09	LB105778
	Cobalt	1.00	+/-1.00	U	1.00	P	10/17/2019	19:09	LB105778
	Copper	2.00	+/-2.00	U	2.00	P	10/17/2019	19:09	LB105778
	Iron	4.92	+/-50.0	J	50.0	P	10/17/2019	19:09	LB105778
	Lead	0.060	+/-1.00	J	1.00	P	10/17/2019	19:09	LB105778
	Magnesium	8.23	+/-500	J	500	P	10/17/2019	19:09	LB105778
	Manganese	1.00	+/-1.00	U	1.00	P	10/17/2019	19:09	LB105778
	Nickel	1.00	+/-1.00	U	1.00	P	10/17/2019	19:09	LB105778
	Potassium	500	+/-500	U	500	P	10/17/2019	19:09	LB105778
	Selenium	5.00	+/-5.00	U	5.00	P	10/17/2019	19:09	LB105778
	Silver	1.00	+/-1.00	U	1.00	P	10/17/2019	19:09	LB105778

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc.

SDG No.: K5154

Contract: TRCE03

Lab Code: CHEM

Case No.: K5154

SAS No.: K5154

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB77	Sodium	38.8	+/-500	J	500	P	10/17/2019	19:09	LB105778
	Thallium	0.14	+/-1.00	J	1.00	P	10/17/2019	19:09	LB105778
	Vanadium	5.00	+/-5.00	U	5.00	P	10/17/2019	19:09	LB105778
	Zinc	2.00	+/-2.00	U	2.00	P	10/17/2019	19:09	LB105778

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: TRC Companies, Inc.

SDG No.: K5154

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB123618BL		WATER		Batch Number:	PB123618		Prep Date:	10/02/2019	
	Mercury	0.14	<0.20	J	0.20	CV	10/03/2019	14:29	LB105464
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB123712BL		WATER		Batch Number:	PB123712		Prep Date:	10/07/2019	
	Mercury	0.20	<0.20	U	0.20	CV	10/07/2019	14:17	LB105539

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: TRC Companies, Inc.

SDG No.: K5154

Instrument: P7

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB123625BL	WATER			Batch Number:	PB123625		Prep Date:	10/03/2019	
	Aluminum	20.0	<20.0	U	20.0	P	10/10/2019	16:46	LB105633
	Antimony	2.00	<2.00	U	2.00	P	10/10/2019	16:46	LB105633
	Arsenic	1.00	<1.00	U	1.00	P	10/10/2019	16:46	LB105633
	Barium	10.0	<10.0	U	10.0	P	10/10/2019	16:46	LB105633
	Beryllium	1.00	<1.00	U	1.00	P	10/10/2019	16:46	LB105633
	Cadmium	1.00	<1.00	U	1.00	P	10/10/2019	16:46	LB105633
	Calcium	500	<500	U	500	P	10/10/2019	16:46	LB105633
	Chromium	2.00	<2.00	U	2.00	P	10/10/2019	16:46	LB105633
	Cobalt	1.00	<1.00	U	1.00	P	10/10/2019	16:46	LB105633
	Copper	2.00	<2.00	U	2.00	P	10/10/2019	16:46	LB105633
	Iron	50.0	<50.0	U	50.0	P	10/10/2019	16:46	LB105633
	Lead	1.00	<1.00	U	1.00	P	10/10/2019	16:46	LB105633
	Magnesium	500	<500	U	500	P	10/10/2019	16:46	LB105633
	Manganese	1.00	<1.00	U	1.00	P	10/10/2019	16:46	LB105633
	Nickel	1.00	<1.00	U	1.00	P	10/10/2019	16:46	LB105633
	Potassium	21.2	<500	J	500	P	10/10/2019	16:46	LB105633
	Selenium	5.00	<5.00	U	5.00	P	10/10/2019	16:46	LB105633
	Silver	1.00	<1.00	U	1.00	P	10/10/2019	16:46	LB105633
	Sodium	500	<500	U	500	P	10/10/2019	16:46	LB105633
	Thallium	0.030	<1.00	J	1.00	P	10/10/2019	16:46	LB105633
	Vanadium	5.00	<5.00	U	5.00	P	10/10/2019	16:46	LB105633
	Zinc	2.00	<2.00	U	2.00	P	10/10/2019	16:46	LB105633
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB123873BL	WATER			Batch Number:	PB123873		Prep Date:	10/11/2019	
	Aluminum	20.0	<20.0	U	20.0	P	10/14/2019	13:50	LB105691
	Antimony	0.18	<2.00	J	2.00	P	10/14/2019	13:50	LB105691
	Arsenic	1.00	<1.00	U	1.00	P	10/14/2019	13:50	LB105691
	Barium	10.0	<10.0	U	10.0	P	10/14/2019	13:50	LB105691
	Beryllium	1.00	<1.00	U	1.00	P	10/14/2019	13:50	LB105691
	Cadmium	1.00	<1.00	U	1.00	P	10/14/2019	13:50	LB105691
	Calcium	500	<500	U	500	P	10/14/2019	13:50	LB105691
	Chromium	2.00	<2.00	U	2.00	P	10/14/2019	13:50	LB105691
	Cobalt	1.00	<1.00	U	1.00	P	10/14/2019	13:50	LB105691
	Copper	2.00	<2.00	U	2.00	P	10/14/2019	13:50	LB105691
	Iron	50.0	<50.0	U	50.0	P	10/14/2019	13:50	LB105691
	Lead	0.040	<1.00	J	1.00	P	10/14/2019	13:50	LB105691
	Magnesium	500	<500	U	500	P	10/14/2019	13:50	LB105691
	Manganese	1.00	<1.00	U	1.00	P	10/14/2019	13:50	LB105691
	Nickel	1.00	<1.00	U	1.00	P	10/14/2019	13:50	LB105691
	Potassium	20.9	<500	J	500	P	10/14/2019	13:50	LB105691

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: TRC Companies, Inc.

SDG No.: K5154

Instrument: P7

Selenium	5.00	<5.00	U	5.00	P	10/14/2019	13:50	LB105691
Silver	1.00	<1.00	U	1.00	P	10/14/2019	13:50	LB105691
Sodium	500	<500	U	500	P	10/14/2019	13:50	LB105691
Thallium	0.23	<1.00	J	1.00	P	10/14/2019	13:50	LB105691
Vanadium	5.00	<5.00	U	5.00	P	10/14/2019	13:50	LB105691
Zinc	2.00	<2.00	U	2.00	P	10/14/2019	13:50	LB105691

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B
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Metals

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INTERFERENCE CHECK SAMPLE

Client: TRC Companies, Inc.

SDG No.: K5154

Contract: TRCE03

Lab Code: CHEM

Case No.: K5154

SAS No.: K5154

ICS Source: EPA

Instrument ID: P7

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	89300	100000	89	0	0	10/10/2019	16:14	LB105633
	Antimony	1.13	1.5	75	-2.5	5.5	10/10/2019	16:14	LB105633
	Arsenic	0.32	0.1	320	-1.9	2.1	10/10/2019	16:14	LB105633
	Barium	1.48	1.2	123	-18.8	21.2	10/10/2019	16:14	LB105633
	Beryllium	0.28			-2	2	10/10/2019	16:14	LB105633
	Cadmium	0.85	0.7	121	-1.3	2.7	10/10/2019	16:14	LB105633
	Calcium	99200	100000	99	0	0	10/10/2019	16:14	LB105633
	Chromium	21.1	21.0	100	16.8	25.2	10/10/2019	16:14	LB105633
	Cobalt	1.23	1.0	123	-1	3	10/10/2019	16:14	LB105633
	Copper	8.61	8.0	108	4	12	10/10/2019	16:14	LB105633
	Iron	98300	100000	98	0	0	10/10/2019	16:14	LB105633
	Lead	4.34	4.0	108	2	6	10/10/2019	16:14	LB105633
	Magnesium	102000	100000	102	0	0	10/10/2019	16:14	LB105633
	Manganese	8.53	7.0	122	5	9	10/10/2019	16:14	LB105633
	Nickel	6.40	6.0	107	4	8	10/10/2019	16:14	LB105633
	Potassium	98600	100000	99	0	0	10/10/2019	16:14	LB105633
	Selenium	0	0.3		-9.7	10.3	10/10/2019	16:14	LB105633
	Silver	0.050			-2	2	10/10/2019	16:14	LB105633
	Sodium	101000	100000	101	0	0	10/10/2019	16:14	LB105633
	Thallium	0.070			-2	2	10/10/2019	16:14	LB105633
	Vanadium	0.15	0.5	30	-9.5	10.5	10/10/2019	16:14	LB105633
	Zinc	8.79	11.0	80	7	15	10/10/2019	16:14	LB105633
ICSAB01	Aluminum	89900	100000	90	0	0	10/10/2019	16:18	LB105633
	Antimony	20.8	22.0	94	17.6	26.4	10/10/2019	16:18	LB105633
	Arsenic	20.2	19.0	106	15.2	22.8	10/10/2019	16:18	LB105633
	Barium	21.7	22.0	99	2	42	10/10/2019	16:18	LB105633
	Beryllium	20.3	20.0	102	15.2	22.8	10/10/2019	16:18	LB105633
	Cadmium	19.7	20.0	98	16	24	10/10/2019	16:18	LB105633
	Calcium	99300	100000	99	0	0	10/10/2019	16:18	LB105633
	Chromium	40.1	40.0	100	32	48	10/10/2019	16:18	LB105633
	Cobalt	20.7	20.0	104	16	24	10/10/2019	16:18	LB105633
	Copper	27.7	25.0	111	20	30	10/10/2019	16:18	LB105633
	Iron	99000	100000	99	0	0	10/10/2019	16:18	LB105633
	Lead	23.7	25.0	95	20	30	10/10/2019	16:18	LB105633
	Magnesium	102000	100000	102	0	0	10/10/2019	16:18	LB105633
	Manganese	27.5	27.0	102	21.6	32.4	10/10/2019	16:18	LB105633
	Nickel	25.5	24.0	106	19.2	28.8	10/10/2019	16:18	LB105633
	Potassium	99700	100000	100	0	0	10/10/2019	16:18	LB105633
	Selenium	18.3	19.0	96	9	29	10/10/2019	16:18	LB105633
	Silver	18.5	18.0	103	14.4	21.6	10/10/2019	16:18	LB105633
	Sodium	102000	100000	102	0	0	10/10/2019	16:18	LB105633
	Thallium	20.0	21.0	95	16.8	25.2	10/10/2019	16:18	LB105633
	Vanadium	19.3	19.0	102	9	29	10/10/2019	16:18	LB105633
	Zinc	26.5	29.0	91	23.2	34.8	10/10/2019	16:18	LB105633
ICSA01	Aluminum	93200	100000	93	0	0	10/14/2019	12:25	LB105691

Metals

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INTERFERENCE CHECK SAMPLE

Client: TRC Companies, Inc.

SDG No.: K5154

Contract: TRCE03

Lab Code: CHEM

Case No.: K5154

SAS No.: K5154

ICS Source: EPA

Instrument ID: P7

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Antimony	1.13	1.5	75	-2.5	5.5	10/14/2019	12:25	LB105691
	Arsenic	0.28	0.1	280	-1.9	2.1	10/14/2019	12:25	LB105691
	Barium	1.63	1.2	136	-18.8	21.2	10/14/2019	12:25	LB105691
	Beryllium	0.26			-2	2	10/14/2019	12:25	LB105691
	Cadmium	0	0.7		-1.3	2.7	10/14/2019	12:25	LB105691
	Calcium	105000	100000	105	0	0	10/14/2019	12:25	LB105691
	Chromium	21.5	21.0	102	16.8	25.2	10/14/2019	12:25	LB105691
	Cobalt	1.23	1.0	123	-1	3	10/14/2019	12:25	LB105691
	Copper	8.30	8.0	104	4	12	10/14/2019	12:25	LB105691
	Iron	104000	100000	104	0	0	10/14/2019	12:25	LB105691
	Lead	4.58	4.0	114	2	6	10/14/2019	12:25	LB105691
	Magnesium	107000	100000	107	0	0	10/14/2019	12:25	LB105691
	Manganese	8.60	7.0	123	5	9	10/14/2019	12:25	LB105691
	Nickel	6.47	6.0	108	4	8	10/14/2019	12:25	LB105691
	Potassium	102000	100000	102	0	0	10/14/2019	12:25	LB105691
	Selenium	0.10	0.3	33	-9.7	10.3	10/14/2019	12:25	LB105691
	Silver	0.030			-2	2	10/14/2019	12:25	LB105691
	Sodium	106000	100000	106	0	0	10/14/2019	12:25	LB105691
	Thallium	0.050			-2	2	10/14/2019	12:25	LB105691
	Vanadium	0.17	0.5	34	-9.5	10.5	10/14/2019	12:25	LB105691
	Zinc	12.5	11.0	114	7	15	10/14/2019	12:25	LB105691
ICSAB01	Aluminum	93400	100000	93	0	0	10/14/2019	12:29	LB105691
	Antimony	21.2	22.0	96	17.6	26.4	10/14/2019	12:29	LB105691
	Arsenic	20.6	19.0	108	15.2	22.8	10/14/2019	12:29	LB105691
	Barium	21.8	22.0	99	2	42	10/14/2019	12:29	LB105691
	Beryllium	20.1	20.0	100	15.2	22.8	10/14/2019	12:29	LB105691
	Cadmium	20.1	20.0	100	16	24	10/14/2019	12:29	LB105691
	Calcium	104000	100000	104	0	0	10/14/2019	12:29	LB105691
	Chromium	41.5	40.0	104	32	48	10/14/2019	12:29	LB105691
	Cobalt	21.2	20.0	106	16	24	10/14/2019	12:29	LB105691
	Copper	28.5	25.0	114	20	30	10/14/2019	12:29	LB105691
	Iron	104000	100000	104	0	0	10/14/2019	12:29	LB105691
	Lead	24.4	25.0	98	20	30	10/14/2019	12:29	LB105691
	Magnesium	107000	100000	107	0	0	10/14/2019	12:29	LB105691
	Manganese	27.7	27.0	103	21.6	32.4	10/14/2019	12:29	LB105691
	Nickel	26.1	24.0	109	19.2	28.8	10/14/2019	12:29	LB105691
	Potassium	103000	100000	103	0	0	10/14/2019	12:29	LB105691
	Selenium	19.8	19.0	104	9	29	10/14/2019	12:29	LB105691
	Silver	19.2	18.0	107	14.4	21.6	10/14/2019	12:29	LB105691
	Sodium	106000	100000	106	0	0	10/14/2019	12:29	LB105691
	Thallium	20.3	21.0	97	16.8	25.2	10/14/2019	12:29	LB105691
	Vanadium	19.7	19.0	104	9	29	10/14/2019	12:29	LB105691
	Zinc	31.9	29.0	110	23.2	34.8	10/14/2019	12:29	LB105691
ICSA01	Aluminum	90200	100000	90	0	0	10/16/2019	13:27	LB105753
	Antimony	1.19	1.5	79	-2.5	5.5	10/16/2019	13:27	LB105753

Metals

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INTERFERENCE CHECK SAMPLE

Client: TRC Companies, Inc. SDG No.: K5154
 Contract: TRCE03 Lab Code: CHEM Case No.: K5154 SAS No.: K5154
 ICS Source: EPA Instrument ID: P7

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Arsenic	0.33	0.1	330	-1.9	2.1	10/16/2019	13:27	LB105753
	Barium	1.47	1.2	122	-18.8	21.2	10/16/2019	13:27	LB105753
	Beryllium	0.27			-2	2	10/16/2019	13:27	LB105753
	Cadmium	0	0.7		-1.3	2.7	10/16/2019	13:27	LB105753
	Calcium	101000	100000	101	0	0	10/16/2019	13:27	LB105753
	Chromium	21.0	21.0	100	16.8	25.2	10/16/2019	13:27	LB105753
	Cobalt	1.22	1.0	122	-1	3	10/16/2019	13:27	LB105753
	Copper	7.71	8.0	96	4	12	10/16/2019	13:27	LB105753
	Iron	99700	100000	100	0	0	10/16/2019	13:27	LB105753
	Lead	4.12	4.0	103	2	6	10/16/2019	13:27	LB105753
	Magnesium	103000	100000	103	0	0	10/16/2019	13:27	LB105753
	Manganese	8.56	7.0	122	5	9	10/16/2019	13:27	LB105753
	Nickel	6.31	6.0	105	4	8	10/16/2019	13:27	LB105753
	Potassium	98500	100000	98	0	0	10/16/2019	13:27	LB105753
	Selenium	0.22	0.3	73	-9.7	10.3	10/16/2019	13:27	LB105753
	Silver	0.020			-2	2	10/16/2019	13:27	LB105753
	Sodium	101000	100000	101	0	0	10/16/2019	13:27	LB105753
	Thallium	0.12			-2	2	10/16/2019	13:27	LB105753
	Vanadium	0.18	0.5	36	-9.5	10.5	10/16/2019	13:27	LB105753
	Zinc	11.4	11.0	104	7	15	10/16/2019	13:27	LB105753
ICSAB01	Aluminum	90900	100000	91	0	0	10/16/2019	13:30	LB105753
	Antimony	20.6	22.0	94	17.6	26.4	10/16/2019	13:30	LB105753
	Arsenic	19.6	19.0	103	15.2	22.8	10/16/2019	13:30	LB105753
	Barium	21.4	22.0	97	2	42	10/16/2019	13:30	LB105753
	Beryllium	20.0	20.0	100	15.2	22.8	10/16/2019	13:30	LB105753
	Cadmium	19.8	20.0	99	16	24	10/16/2019	13:30	LB105753
	Calcium	102000	100000	102	0	0	10/16/2019	13:30	LB105753
	Chromium	40.3	40.0	101	32	48	10/16/2019	13:30	LB105753
	Cobalt	21.2	20.0	106	16	24	10/16/2019	13:30	LB105753
	Copper	26.8	25.0	107	20	30	10/16/2019	13:30	LB105753
	Iron	100000	100000	100	0	0	10/16/2019	13:30	LB105753
	Lead	22.4	25.0	90	20	30	10/16/2019	13:30	LB105753
	Magnesium	104000	100000	104	0	0	10/16/2019	13:30	LB105753
	Manganese	27.3	27.0	101	21.6	32.4	10/16/2019	13:30	LB105753
	Nickel	25.6	24.0	107	19.2	28.8	10/16/2019	13:30	LB105753
	Potassium	99400	100000	99	0	0	10/16/2019	13:30	LB105753
	Selenium	19.4	19.0	102	9	29	10/16/2019	13:30	LB105753
	Silver	19.4	18.0	108	14.4	21.6	10/16/2019	13:30	LB105753
	Sodium	103000	100000	103	0	0	10/16/2019	13:30	LB105753
	Thallium	20.3	21.0	97	16.8	25.2	10/16/2019	13:30	LB105753
	Vanadium	19.6	19.0	103	9	29	10/16/2019	13:30	LB105753
	Zinc	28.6	29.0	99	23.2	34.8	10/16/2019	13:30	LB105753
ICSA01	Aluminum	89600	100000	90	0	0	10/17/2019	18:01	LB105778
	Antimony	1.17	1.5	78	-2.5	5.5	10/17/2019	18:01	LB105778
	Arsenic	0.38	0.1	380	-1.9	2.1	10/17/2019	18:01	LB105778

Metals

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INTERFERENCE CHECK SAMPLE

Client: TRC Companies, Inc.

SDG No.: K5154

Contract: TRCE03

Lab Code: CHEM

Case No.: K5154

SAS No.: K5154

ICS Source: EPA

Instrument ID: P7

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Barium	1.53	1.2	128	-18.8	21.2	10/17/2019	18:01	LB105778
	Beryllium	0.30			-2	2	10/17/2019	18:01	LB105778
	Cadmium	0.38	0.7	54	-1.3	2.7	10/17/2019	18:01	LB105778
	Calcium	102000	100000	102	0	0	10/17/2019	18:01	LB105778
	Chromium	20.9	21.0	100	16.8	25.2	10/17/2019	18:01	LB105778
	Cobalt	1.20	1.0	120	-1	3	10/17/2019	18:01	LB105778
	Copper	7.14	8.0	89	4	12	10/17/2019	18:01	LB105778
	Iron	103000	100000	103	0	0	10/17/2019	18:01	LB105778
	Lead	4.31	4.0	108	2	6	10/17/2019	18:01	LB105778
	Magnesium	102000	100000	102	0	0	10/17/2019	18:01	LB105778
	Manganese	8.71	7.0	124	5	9	10/17/2019	18:01	LB105778
	Nickel	6.29	6.0	105	4	8	10/17/2019	18:01	LB105778
	Potassium	100000	100000	100	0	0	10/17/2019	18:01	LB105778
	Selenium	0.38	0.3	127	-9.7	10.3	10/17/2019	18:01	LB105778
	Silver	0.040			-2	2	10/17/2019	18:01	LB105778
	Sodium	101000	100000	101	0	0	10/17/2019	18:01	LB105778
	Thallium	0.14			-2	2	10/17/2019	18:01	LB105778
	Vanadium	0.17	0.5	34	-9.5	10.5	10/17/2019	18:01	LB105778
	Zinc	10.6	11.0	96	7	15	10/17/2019	18:01	LB105778
ICSAB01	Aluminum	90800	100000	91	0	0	10/17/2019	18:05	LB105778
	Antimony	21.0	22.0	96	17.6	26.4	10/17/2019	18:05	LB105778
	Arsenic	19.9	19.0	105	15.2	22.8	10/17/2019	18:05	LB105778
	Barium	21.9	22.0	100	2	42	10/17/2019	18:05	LB105778
	Beryllium	21.1	20.0	106	15.2	22.8	10/17/2019	18:05	LB105778
	Cadmium	20.2	20.0	101	16	24	10/17/2019	18:05	LB105778
	Calcium	103000	100000	103	0	0	10/17/2019	18:05	LB105778
	Chromium	39.5	40.0	99	32	48	10/17/2019	18:05	LB105778
	Cobalt	19.8	20.0	99	16	24	10/17/2019	18:05	LB105778
	Copper	25.0	25.0	100	20	30	10/17/2019	18:05	LB105778
	Iron	102000	100000	102	0	0	10/17/2019	18:05	LB105778
	Lead	23.4	25.0	94	20	30	10/17/2019	18:05	LB105778
	Magnesium	103000	100000	103	0	0	10/17/2019	18:05	LB105778
	Manganese	27.8	27.0	103	21.6	32.4	10/17/2019	18:05	LB105778
	Nickel	25.0	24.0	104	19.2	28.8	10/17/2019	18:05	LB105778
	Potassium	101000	100000	101	0	0	10/17/2019	18:05	LB105778
	Selenium	20.0	19.0	105	9	29	10/17/2019	18:05	LB105778
	Silver	19.1	18.0	106	14.4	21.6	10/17/2019	18:05	LB105778
	Sodium	103000	100000	103	0	0	10/17/2019	18:05	LB105778
	Thallium	20.3	21.0	97	16.8	25.2	10/17/2019	18:05	LB105778
	Vanadium	18.8	19.0	99	9	29	10/17/2019	18:05	LB105778
	Zinc	28.0	29.0	97	23.2	34.8	10/17/2019	18:05	LB105778

METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: TRC Companies, Inc. level: low sdg no.: K5154
contract: TRCE03 lab code: CHEM case no.: K5154 sas no.: K5154
matrix: Water sample id: K5154-11 client id: MW-103IMS
Percent Solids for Sample: NA Spiked ID: K5154-12 Percent Solids for Spike Sample: NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	84 - 117	9680		18.7	J	10000	97		P
Antimony	ug/L	85 - 117	492		0.64	J	500	98		P
Arsenic	ug/L	84 - 116	530		8.54		500	104		P
Barium	ug/L	86 - 114	2620		146		2500	99		P
Beryllium	ug/L	83 - 121	462		1.00	U	500	92		P
Cadmium	ug/L	87 - 115	446		1.00	U	500	89		P
Calcium	ug/L	87 - 118	96900		45300		50000	103		P
Chromium	ug/L	85 - 116	524		1.17	J	500	105		P
Cobalt	ug/L	86 - 115	526		0.37	J	500	105		P
Copper	ug/L	85 - 118	1020		7.25		1000	101		P
Iron	ug/L	87 - 118	28900		2090		25000	107		P
Lead	ug/L	88 - 115	526		1.71		500	105		P
Magnesium	ug/L	83 - 118	115000		62900		50000	103		P
Manganese	ug/L	87 - 115	1880		844		1000	103		P
Nickel	ug/L	85 - 117	529		0.58	J	500	106		P
Mercury	ug/L	75 - 125	4.39		0.20	U	4.0	110		CV
Potassium	ug/L	87 - 115	52800		28600		25000	97		P
Selenium	ug/L	80 - 120	481		3.87	J	500	95		P
Silver	ug/L	85 - 116	426		1.00	U	500	85		P
Sodium	ug/L	85 - 117	317000		267000		50000	99		P
Thallium	ug/L	82 - 116	518		1.00	U	500	104		P
Vanadium	ug/L	86 - 115	519		1.05	J	500	104		P
Zinc	ug/L	83 - 119	985		42.7		1000	94		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: TRC Companies, Inc. **level:** low **sdg no.:** K5154
contract: TRCE03 **lab code:** CHEM **case no.:** K5154 **sas no.:** K5154
matrix: Water **sample id:** K5154-11 **client id:** MW-103IMSD
Percent Solids for Sample: NA **Spiked ID:** K5154-13 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	84 - 117	9680		18.7	J	10000	97		P
Antimony	ug/L	85 - 117	476		0.64	J	500	95		P
Arsenic	ug/L	84 - 116	527		8.54		500	104		P
Barium	ug/L	86 - 114	2550		146		2500	96		P
Beryllium	ug/L	83 - 121	456		1.00	U	500	91		P
Cadmium	ug/L	87 - 115	435		1.00	U	500	87		P
Calcium	ug/L	87 - 118	92800		45300		50000	95		P
Chromium	ug/L	85 - 116	513		1.17	J	500	102		P
Cobalt	ug/L	86 - 115	515		0.37	J	500	103		P
Copper	ug/L	85 - 118	1000		7.25		1000	99		P
Iron	ug/L	87 - 118	28400		2090		25000	105		P
Lead	ug/L	88 - 115	500		1.71		500	100		P
Magnesium	ug/L	83 - 118	113000		62900		50000	101		P
Manganese	ug/L	87 - 115	1860		844		1000	102		P
Nickel	ug/L	85 - 117	515		0.58	J	500	103		P
Mercury	ug/L	75 - 125	4.27		0.20	U	4.0	107		CV
Potassium	ug/L	87 - 115	53000		28600		25000	98		P
Selenium	ug/L	80 - 120	467		3.87	J	500	93		P
Silver	ug/L	85 - 116	415		1.00	U	500	83	N	P
Sodium	ug/L	85 - 117	314000		267000		50000	93		P
Thallium	ug/L	82 - 116	490		1.00	U	500	98		P
Vanadium	ug/L	86 - 115	510		1.05	J	500	102		P
Zinc	ug/L	83 - 119	969		42.7		1000	93		P

metals
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MATRIX SPIKE SUMMARY

client:	TRC Companies, Inc.			level:	low		sdg no.:	K5154			
contract:	TRCE03			lab code:	CHEM		case no.:	K5154		sas no.:	K5154
matrix:	Water			sample id:	K5154-21		client id:	MW-102SMS			
Percent Solids for Sample:		NA		Spiked ID:		K5154-21MS		Percent Solids for Spike Sample:		NA	
Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M	
Mercury	ug/L	75 - 125	3.30		0.20	U	4.0	82		CV	

metals
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MATRIX SPIKE DUPLICATE SUMMARY

client:TRC Companies, Inc.

level:low

sdg no.:K5154

contract:TRCE03

lab code:CHEM

case no.:K5154

sas no.:K5154

matrix:Water

sample id:K5154-21

client id:MW-102SMSD

Percent Solids for Sample:NA

Spiked ID:K5154-21MSD

Percent Solids for Spike Sample:NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	3.62		0.20	U	4.0	90		CV

metals
- 5a -
MATRIX SPIKE SUMMARY

client: TRC Companies, Inc. level: low sdg no.: K5154
contract: TRCE03 lab code: CHEM case no.: K5154 sas no.: K5154
matrix: Water sample id: K5157-02 client id: S49-0539MS
Percent Solids for Sample: NA Spiked ID: K5157-03 Percent Solids for Spike Sample: NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	84 - 117	9730	D	67.0	JD	10000	97		P
Antimony	ug/L	85 - 117	489		1.31	J	500	97		P
Arsenic	ug/L	84 - 116	628	D	71.2	D	500	111		P
Barium	ug/L	86 - 114	2640		149		2500	100		P
Beryllium	ug/L	83 - 121	436		1.00	U	500	87		P
Cadmium	ug/L	87 - 115	474		1.00	U	500	95		P
Calcium	ug/L	87 - 118	275000		220000		50000	109		P
Chromium	ug/L	85 - 116	502	D	1.70	JD	500	100		P
Cobalt	ug/L	86 - 115	500	D	0.40	JD	500	100		P
Copper	ug/L	85 - 118	969	D	3.75	JD	1000	97		P
Iron	ug/L	87 - 118	39500	D	13100	D	25000	106		P
Lead	ug/L	88 - 115	537		0.40	J	500	107		P
Magnesium	ug/L	83 - 118	127000	D	74100	D	50000	106		P
Manganese	ug/L	87 - 115	1910	D	858	D	1000	105		P
Nickel	ug/L	85 - 117	510	D	1.40	JD	500	102		P
Potassium	ug/L	87 - 115	39000	D	13100	D	25000	104		P
Selenium	ug/L	80 - 120	482		5.00	U	500	96		P
Silver	ug/L	85 - 116	433		1.00	U	500	87		P
Sodium	ug/L	85 - 117	519000	D	460000	D	50000	119		P
Thallium	ug/L	82 - 116	530		0.030	J	500	106		P
Vanadium	ug/L	86 - 115	498	D	0.60	JD	500	99		P
Zinc	ug/L	83 - 119	980	D	3.45	JD	1000	98		P

metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: TRC Companies, Inc. level: low sdg no.: K5154
contract: TRCE03 lab code: CHEM case no.: K5154 sas no.: K5154
matrix: Water sample id: K5157-02 client id: S49-0539MSD
Percent Solids for Sample: NA Spiked ID: K5157-04 Percent Solids for Spike Sample: NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	84 - 117	9830	D	67.0	JD	10000	98		P
Antimony	ug/L	85 - 117	483		1.31	J	500	96		P
Arsenic	ug/L	84 - 116	629	D	71.2	D	500	112		P
Barium	ug/L	86 - 114	2590		149		2500	98		P
Beryllium	ug/L	83 - 121	432		1.00	U	500	86		P
Cadmium	ug/L	87 - 115	464		1.00	U	500	93		P
Calcium	ug/L	87 - 118	270000		220000		50000	100		P
Chromium	ug/L	85 - 116	509	D	1.70	JD	500	102		P
Cobalt	ug/L	86 - 115	513	D	0.40	JD	500	103		P
Copper	ug/L	85 - 118	983	D	3.75	JD	1000	98		P
Iron	ug/L	87 - 118	40300	D	13100	D	25000	109		P
Lead	ug/L	88 - 115	529		0.40	J	500	106		P
Magnesium	ug/L	83 - 118	128000	D	74100	D	50000	108		P
Manganese	ug/L	87 - 115	1930	D	858	D	1000	108		P
Nickel	ug/L	85 - 117	520	D	1.40	JD	500	104		P
Potassium	ug/L	87 - 115	39200	D	13100	D	25000	105		P
Selenium	ug/L	80 - 120	469		5.00	U	500	94		P
Silver	ug/L	85 - 116	427		1.00	U	500	85		P
Sodium	ug/L	85 - 117	529000	D	460000	D	50000	138		P
Thallium	ug/L	82 - 116	522		0.030	J	500	104		P
Vanadium	ug/L	86 - 115	507	D	0.60	JD	500	101		P
Zinc	ug/L	83 - 119	1000	D	3.45	JD	1000	100		P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: TRC Companies, Inc.

SDG No.: K5154

Contract: TRCE03

Lab Code: CHEM

Case No.: K5154

SAS No.: K5154

Matrix: Water

Level: LOW

Client ID: MW-1031A

Sample ID: K5154-11

Spiked ID: K5154-11A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Silver	ug/L	85 - 116	420		1.00	U	500	84		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: TRC Companies, Inc. **Level:** LOW **SDG No.:** K5154
Contract: TRCE03 **Lab Code:** CHEM **Case No.:** K5154 **SAS No.:** K5154
Matrix: Water **Sample ID:** K5154-11 **Client ID:** MW-103IDUP
Percent Solids for Sample: NA **Duplicate ID** K5154-11DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	18.7	J	20.8		11		P
Antimony	ug/L	20	0.64	J	0.69	J	8		P
Arsenic	ug/L	20	8.54		8.66		1		P
Barium	ug/L	20	146		145		1		P
Beryllium	ug/L	20	1.00	U	1.00	U			P
Cadmium	ug/L	20	1.00	U	1.00	U			P
Calcium	ug/L	20	45300		45100		0		P
Chromium	ug/L	20	1.17	J	1.18	J	1		P
Cobalt	ug/L	20	0.37	J	0.36	J	3		P
Copper	ug/L	20	7.25		6.62		9		P
Iron	ug/L	20	2090		2120		1		P
Lead	ug/L	20	1.71		1.20		35	*	P
Magnesium	ug/L	20	62900		62900		0		P
Manganese	ug/L	20	844		853		1		P
Nickel	ug/L	20	0.58	J	0.55	J	5		P
Mercury	ug/L	20	0.20	U	0.20	U			CV
Potassium	ug/L	20	28600		28500		0		P
Selenium	ug/L	20	3.87	J	5.00	U	200.0		P
Silver	ug/L	20	1.00	U	1.00	U			P
Sodium	ug/L	20	267000		267000		0		P
Thallium	ug/L	20	1.00	U	1.00	U			P
Vanadium	ug/L	20	1.05	J	1.12	J	6		P
Zinc	ug/L	20	42.7		43.2		1		P

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	TRC Companies, Inc.	Level:	LOW	SDG No.:	K5154		
Contract:	TRCE03	Lab Code:	CHEM	Case No.:	K5154	SAS No.:	K5154
Matrix:	Water	Sample ID:	K5154-12	Client ID:	MW-103IMSD		
Percent Solids for Sample:	NA	Duplicate ID	K5154-13	Percent Solids for Spike Sample:	NA		

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	9680		9680		0		P
Antimony	ug/L	20	492		476		3		P
Arsenic	ug/L	20	530		527		1		P
Barium	ug/L	20	2620		2550		3		P
Beryllium	ug/L	20	462		456		1		P
Cadmium	ug/L	20	446		435		2		P
Calcium	ug/L	20	96900		92800		4		P
Chromium	ug/L	20	524		513		2		P
Cobalt	ug/L	20	526		515		2		P
Copper	ug/L	20	1020		1000		2		P
Iron	ug/L	20	28900		28400		2		P
Lead	ug/L	20	526		500		5		P
Magnesium	ug/L	20	115000		113000		2		P
Manganese	ug/L	20	1880		1860		1		P
Nickel	ug/L	20	529		515		3		P
Mercury	ug/L	20	4.39		4.27		3		CV
Potassium	ug/L	20	52800		53000		0		P
Selenium	ug/L	20	481		467		3		P
Silver	ug/L	20	426		415		3		P
Sodium	ug/L	20	317000		314000		1		P
Thallium	ug/L	20	518		490		6		P
Vanadium	ug/L	20	519		510		2		P
Zinc	ug/L	20	985		969		2		P

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>TRC Companies, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>K5154</u>
Contract:	<u>TRCE03</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>K5154</u>
Matrix:	<u>Water</u>	Sample ID:	<u>K5154-21</u>	Client ID:	<u>MW-102SDUP</u>
Percent Solids for Sample:	<u>NA</u>	Duplicate ID	<u>K5154-21DUP</u>	Percent Solids for Spike Sample:	<u>NA</u>

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.20	U	0.050	J	200.0		CV

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	TRC Companies, Inc.	Level:	LOW	SDG No.:	K5154		
Contract:	TRCE03	Lab Code:	CHEM	Case No.:	K5154	SAS No.:	K5154
Matrix:	Water	Sample ID:	K5154-21MS	Client ID:	MW-102SMSD		
Percent Solids for Sample:	NA	Duplicate ID	K5154-21MSD	Percent Solids for Spike Sample:	NA		

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	3.30		3.62		9		CV

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

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DUPLICATE SAMPLE SUMMARY

Client: TRC Companies, Inc. **Level:** LOW **SDG No.:** K5154
Contract: TRCE03 **Lab Code:** CHEM **Case No.:** K5154 **SAS No.:** K5154
Matrix: Water **Sample ID:** K5157-02 **Client ID:** S49-0539DUP
Percent Solids for Sample: NA **Duplicate ID** K5157-02DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	67.0	JD	59.7	JD	12		P
Antimony	ug/L	20	1.31	J	1.21	J	8		P
Arsenic	ug/L	20	71.2	D	72.3	D	2		P
Barium	ug/L	20	149		150		1		P
Beryllium	ug/L	20	1.00	U	1.00	U			P
Cadmium	ug/L	20	1.00	U	1.00	U			P
Calcium	ug/L	20	220000		222000		1		P
Chromium	ug/L	20	1.70	JD	1.50	JD	12		P
Cobalt	ug/L	20	0.40	JD	0.40	JD	0		P
Copper	ug/L	20	3.75	JD	3.40	JD	10		P
Iron	ug/L	20	13100	D	13200	D	1		P
Lead	ug/L	20	0.40	J	0.41	J	2		P
Magnesium	ug/L	20	74100	D	74100	D	0		P
Manganese	ug/L	20	858	D	863	D	1		P
Nickel	ug/L	20	1.40	JD	1.30	JD	7		P
Potassium	ug/L	20	13100	D	13200	D	1		P
Selenium	ug/L	20	5.00	U	5.00	U			P
Silver	ug/L	20	1.00	U	1.00	U			P
Sodium	ug/L	20	460000	D	463000	D	1		P
Thallium	ug/L	20	0.030	J	0.030	J	0		P
Vanadium	ug/L	20	0.60	JD	0.55	JD	9		P
Zinc	ug/L	20	3.45	JD	3.65	JD	6		P

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

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DUPLICATE SAMPLE SUMMARY

Client: TRC Companies, Inc. **Level:** LOW **SDG No.:** K5154
Contract: TRCE03 **Lab Code:** CHEM **Case No.:** K5154 **SAS No.:** K5154
Matrix: Water **Sample ID:** K5157-03 **Client ID:** S49-0539MSD
Percent Solids for Sample: NA **Duplicate ID** K5157-04 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	9730	D	9830	D	1		P
Antimony	ug/L	20	489		483		1		P
Arsenic	ug/L	20	628	D	629	D	0		P
Barium	ug/L	20	2640		2590		2		P
Beryllium	ug/L	20	436		432		1		P
Cadmium	ug/L	20	474		464		2		P
Calcium	ug/L	20	275000		270000		2		P
Chromium	ug/L	20	502	D	509	D	1		P
Cobalt	ug/L	20	500	D	513	D	3		P
Copper	ug/L	20	969	D	983	D	1		P
Iron	ug/L	20	39500	D	40300	D	2		P
Lead	ug/L	20	537		529		2		P
Magnesium	ug/L	20	127000	D	128000	D	1		P
Manganese	ug/L	20	1910	D	1930	D	1		P
Nickel	ug/L	20	510	D	520	D	2		P
Potassium	ug/L	20	39000	D	39200	D	1		P
Selenium	ug/L	20	482		469		3		P
Silver	ug/L	20	433		427		1		P
Sodium	ug/L	20	519000	D	529000	D	2		P
Thallium	ug/L	20	530		522		2		P
Vanadium	ug/L	20	498	D	507	D	2		P
Zinc	ug/L	20	980	D	1000	D	2		P

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client:

TRC Companies, Inc.

Contract:

TRCE03

SDG No.:

K5154

Lab Code:

CHEM

Case No.:

K5154

SAS No.:

K5154

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB123618BS Mercury	ug/L	4.0	4.35		109	80 - 120	CV

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: TRC Companies, Inc. **SDG No.:** K5154
Contract: TRCE03 **Lab Code:** CHEM **Case No.:** K5154 **SAS No.:** K5154

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB123625BS							
Aluminum	ug/L	10000	10000		100	84 - 117	P
Antimony	ug/L	500	516		103	85 - 117	P
Arsenic	ug/L	500	527		105	84 - 116	P
Barium	ug/L	2500	2640		106	86 - 114	P
Beryllium	ug/L	500	515		103	83 - 121	P
Cadmium	ug/L	500	505		101	87 - 115	P
Calcium	ug/L	50000	51900		104	87 - 118	P
Chromium	ug/L	500	508		102	85 - 116	P
Cobalt	ug/L	500	511		102	86 - 115	P
Copper	ug/L	1000	992		99	85 - 118	P
Iron	ug/L	25000	26200		105	87 - 118	P
Lead	ug/L	500	496		99	88 - 115	P
Magnesium	ug/L	50000	53600		107	83 - 118	P
Manganese	ug/L	1000	1010		101	87 - 115	P
Nickel	ug/L	500	515		103	85 - 117	P
Potassium	ug/L	25000	25700		103	87 - 115	P
Selenium	ug/L	500	516		103	80 - 120	P
Silver	ug/L	500	531		106	85 - 116	P
Sodium	ug/L	50000	53100		106	85 - 117	P
Thallium	ug/L	500	504		101	82 - 116	P
Vanadium	ug/L	500	508		102	86 - 115	P
Zinc	ug/L	1000	965		96	83 - 119	P



Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client:

TRC Companies, Inc.

SDG No.:

K5154

Contract:

TRCE03

Lab Code:

CHEM

Case No.:

K5154

SAS No.:

K5154

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB123712BS Mercury	ug/L	4.0	3.79		95	80 - 120	CV

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: TRC Companies, Inc. **SDG No.:** K5154
Contract: TRCE03 **Lab Code:** CHEM **Case No.:** K5154 **SAS No.:** K5154

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB123873BS							
Aluminum	ug/L	10000	10200		102	84 - 117	P
Antimony	ug/L	500	513		103	85 - 117	P
Arsenic	ug/L	500	530		106	84 - 116	P
Barium	ug/L	2500	2600		104	86 - 114	P
Beryllium	ug/L	500	509		102	83 - 121	P
Cadmium	ug/L	500	535		107	87 - 115	P
Calcium	ug/L	50000	52300		105	87 - 118	P
Chromium	ug/L	500	506		101	85 - 116	P
Cobalt	ug/L	500	507		101	86 - 115	P
Copper	ug/L	1000	1020		102	85 - 118	P
Iron	ug/L	25000	26800		107	87 - 118	P
Lead	ug/L	500	492		98	88 - 115	P
Magnesium	ug/L	50000	55200		110	83 - 118	P
Manganese	ug/L	1000	997		100	87 - 115	P
Nickel	ug/L	500	514		103	85 - 117	P
Potassium	ug/L	25000	25800		103	87 - 115	P
Selenium	ug/L	500	518		104	80 - 120	P
Silver	ug/L	500	519		104	85 - 116	P
Sodium	ug/L	50000	55000		110	85 - 117	P
Thallium	ug/L	500	499		100	82 - 116	P
Vanadium	ug/L	500	503		101	86 - 115	P
Zinc	ug/L	1000	1020		102	83 - 119	P

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: TRC Companies, Inc.

Contract: TRCE03

Lab Code: CHEM Case no.: K5154

Sas No.: K5154 SDG No.: K5154

Instrument ID: P7

Start Date : 10/10/2019

Run Number: LB105633

End Date : 10/10/2019

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
S0	S0	1502	100		100		100		100		100	
S2	S2	1510	104		104		103		103		101	
S3	S3	1514	101		102		102		101		101	
S4	S4	1518	95		96		97		95		99	
S5	S5	1522	86		88		90		86		95	
S6	S6	1525	83		85		87		83		93	
S7	S7	1529	80		84		87		80		92	
S8	S8	1533	80		88		89		78		90	
ICV01	ICV01	1540	97		102		102		100		100	
LLICV01	LLICV01	1553	104		108		107		105		103	
ICB01	ICB01	1601	106		111		109		108		104	
ICSA01	ICSA01	1614	92		104		104		95		103	
ICSAB01	ICSAB01	1618	93		105		105		96		103	
CCV35	CCV35	1630	89		100		100		89		100	
CCB35	CCB35	1639	107		115		113		111		107	
CRI	CRI	1643	109		117		114		112		108	
PB123625BL	PB123625BL	1646	110		119		116		114		110	
PB123625BS	PB123625BS	1650	98		108		107		100		104	
ZZZZZZ	ZZZZZZ	1659										
ZZZZZZ	ZZZZZZ	1702										
ZZZZZZ	ZZZZZZ	1706										
ZZZZZZ	ZZZZZZ	1709										
ZZZZZZ	ZZZZZZ	1713										
ZZZZZZ	ZZZZZZ	1717										
ZZZZZZ	ZZZZZZ	1720										
CCV36	CCV36	1725	87		85		87		79		94	
CCB36	CCB36	1745	102		98		99		99		100	
K5154-02	FB-10012019	1750	97		87		88		85		93	
K5154-03	MW-106S	1753	96		84		85		78		91	
K5154-04	MW-106I	1757	106		94		93		86		96	
K5154-05	MW-106D	1801	98		91		89		78		90	
K5154-06	MW-107	1804	98		92		90		78		91	
K5154-10	MW-103S	1808	102		98		95		82		93	
K5154-11	MW-103I	1811	104		96		95		87		97	
K5154-11DUP	MW-103IDUP	1815	100		92		91		84		95	
K5154-11L	MW-103IL	1819	98		94		95		92		100	
K5154-12	MW-103IMS	1822	90		81		82		75		89	

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: TRC Companies, Inc.

Contract: TRCE03

Lab Code: CHEM Case no.: K5154

Sas No.: K5154 SDG No.: K5154

Instrument ID: P7

Start Date : 10/10/2019

Run Number: LB105633

End Date : 10/10/2019

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
CCV37	CCV37	1833	88		87		88		80		94	
CCB37	CCB37	1851	98		96		96		96		98	
K5154-13	MW-103IMSD	1855	92		85		86		79		91	
K5154-11A	MW-103IA	1858	90		80		82		75		90	
K5154-14	MW-103D	1902	94		83		86		83		92	
K5154-15	MW-105S	1906	93		83		85		79		91	
K5154-16	MW-105I	1909	98		88		89		82		94	
K5154-17	MW-105D	1913	97		86		88		85		93	
K5154-18	MW-104I	1916	97		88		89		84		95	
K5154-19	MW-104D	1920	73		74		74		61	*	76	
ZZZZZZ	ZZZZZZ	1927										
ZZZZZZ	ZZZZZZ	1931										
CCV38	CCV38	1937	90		94		94		84		96	
CCB38	CCB38	1954	105		104		104		102		103	
K5154-05	MW-106D	1958	103		104		102		97		102	
K5154-06	MW-107	2001	104		106		104		98		103	
K5154-19	MW-104D	2005	97		102		99		89		98	
K5154-02	FB-10012019	2009	110		114		113		109		111	
K5154-19	MW-104D	2012	101		104		103		99		102	
CCV39	CCV39	2016	90		98		97		87		97	
CCB39	CCB39	2019	100		104		104		102		103	

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: TRC Companies, Inc.

Contract: TRCE03

Lab Code: CHEM Case no.: K5154

Sas No.: K5154 SDG No.: K5154

Instrument ID: P7

Start Date : 10/10/2019

Run Number: LB105633

End Date : 10/10/2019

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
S0	S0	1502	100		100		100		100		100	
S2	S2	1510	104		103		103		102		101	
S3	S3	1514	99		100		99		100		100	
S4	S4	1518	93		93		93		96		96	
S5	S5	1522	85		87		86		91		92	
S6	S6	1525	84		84		82		90		90	
S7	S7	1529	83		83		79		88		89	
S8	S8	1533	100		98		84		95		95	
ICV01	ICV01	1540	99		98		97		98		98	
LLICV01	LLICV01	1553	109		107		106		104		104	
ICB01	ICB01	1601	112		109		108		106		105	
ICSA01	ICSA01	1614	106		103		96		102		102	
ICSAB01	ICSAB01	1618	106		104		97		102		102	
CCV35	CCV35	1630	102		99		90		97		99	
CCB35	CCB35	1639	116		113		111		107		107	
CRI	CRI	1643	117		113		112		108		108	
PB123625BL	PB123625BL	1646	119		116		115		111		111	
PB123625BS	PB123625BS	1650	109		107		102		105		104	
ZZZZZZ	ZZZZZZ	1659										
ZZZZZZ	ZZZZZZ	1702										
ZZZZZZ	ZZZZZZ	1706										
ZZZZZZ	ZZZZZZ	1709										
ZZZZZZ	ZZZZZZ	1713										
ZZZZZZ	ZZZZZZ	1717										
ZZZZZZ	ZZZZZZ	1720										
CCV36	CCV36	1725	81		83		77		89		90	
CCB36	CCB36	1745	94		95		97		99		99	
K5154-02	FB-10012019	1750	76		78		79		86		87	
K5154-03	MW-106S	1753	78		79		77		86		87	
K5154-04	MW-106I	1757	88		88		84		92		93	
K5154-05	MW-106D	1801	88		86		78		88		88	
K5154-06	MW-107	1804	88		86		78		87		87	
K5154-10	MW-103S	1808	97		93		83		92		92	
K5154-11	MW-103I	1811	87		87		85		92		92	
K5154-11DUP	MW-103IDUP	1815	82		83		82		90		91	
K5154-11L	MW-103IL	1819	85		87		88		94		95	
K5154-12	MW-103IMS	1822	74		75		74		81		84	

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: TRC Companies, Inc.

Contract: TRCE03

Lab Code: CHEM Case no.: K5154

Sas No.: K5154 SDG No.: K5154

Instrument ID: P7

Start Date : 10/10/2019

Run Number: LB105633

End Date : 10/10/2019

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
CCV37	CCV37	1833	84		85		79		90		91	
CCB37	CCB37	1851	91		92		94		98		98	
K5154-13	MW-103IMSD	1855	74		75		73		83		84	
K5154-11A	MW-103IA	1858	73		75		73		82		84	
K5154-14	MW-103D	1902	74		77		80		86		87	
K5154-15	MW-105S	1906	76		78		76		86		87	
K5154-16	MW-105I	1909	82		83		81		90		91	
K5154-17	MW-105D	1913	77		80		81		88		89	
K5154-18	MW-104I	1916	81		82		82		90		91	
K5154-19	MW-104D	1920	77		73		62	*	71		71	
ZZZZZZ	ZZZZZZ	1927										
ZZZZZZ	ZZZZZZ	1931										
CCV38	CCV38	1937	93		93		85		94		95	
CCB38	CCB38	1954	99		98		98		100		100	
K5154-05	MW-106D	1958	101		99		97		101		101	
K5154-06	MW-107	2001	103		101		97		103		102	
K5154-19	MW-104D	2005	104		99		90		97		98	
K5154-02	FB-10012019	2009	106		104		103		107		106	
K5154-19	MW-104D	2012	105		104		101		104		104	
CCV39	CCV39	2016	97		95		87		96		97	
CCB39	CCB39	2019	102		101		101		103		103	

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: TRC Companies, Inc.

Contract: TRCE03

Lab Code: CHEM Case no.: K5154

Sas No.: K5154 SDG No.: K5154

Instrument ID: P7

Start Date : 10/14/2019

Run Number: LB105691

End Date : 10/14/2019

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
S0	S0	1029	100		100		100		100		100	
S2	S2	1037	102		103		104		105		106	
S3	S3	1041	100		101		103		102		105	
S4	S4	1045	95		97		99		97		102	
S5	S5	1049	87		90		93		90		99	
S6	S6	1053	80		81		86		81		94	
S7	S7	1056	76		77		83		76		92	
S8	S8	1100	79		85		88		77		94	
ICV01	ICV01	1151	94		95		99		97		103	
LLICV01	LLICV01	1218	105		107		107		106		108	
ICB01	ICB01	1222	105		107		109		107		108	
ICSA01	ICSA01	1225	88		91		95		87		101	
ICSAB01	ICSAB01	1229	90		96		99		90		104	
CCV51	CCV51	1233	87		94		97		87		102	
CCB51	CCB51	1237	104		109		111		109		110	
CRI	CRI	1241	105		110		111		108		110	
ZZZZZZ	ZZZZZZ	1244										
ZZZZZZ	ZZZZZZ	1248										
ZZZZZZ	ZZZZZZ	1252										
ZZZZZZ	ZZZZZZ	1255										
ZZZZZZ	ZZZZZZ	1259										
ZZZZZZ	ZZZZZZ	1302										
ZZZZZZ	ZZZZZZ	1306										
ZZZZZZ	ZZZZZZ	1309										
ZZZZZZ	ZZZZZZ	1313										
CCV52	CCV52	1317	92		99		102		90		105	
CCB52	CCB52	1320	105		110		112		110		112	
ZZZZZZ	ZZZZZZ	1324										
ZZZZZZ	ZZZZZZ	1327										
ZZZZZZ	ZZZZZZ	1331										
ZZZZZZ	ZZZZZZ	1335										
ZZZZZZ	ZZZZZZ	1338										
ZZZZZZ	ZZZZZZ	1342										
PB123873BL	PB123873BL	1350	99		105		106		104		107	
PB123873BS	PB123873BS	1353	97		103		105		98		107	
K5154-21	MW-102S	1357	104		95		99		94		101	
K5154-22	MW-102I	1401	107		89		94		87		99	

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: TRC Companies, Inc.

Contract: TRCE03

Lab Code: CHEM Case no.: K5154

Sas No.: K5154 SDG No.: K5154

Instrument ID: P7

Start Date : 10/14/2019

Run Number: LB105691

End Date : 10/14/2019

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
CCV53	CCV53	1418	88		89		93		83		99	
CCB53	CCB53	1423	101		102		105		102		107	
K5154-23	MW-102D	1426	103		92		95		87		100	
K5154-24	MW-101S	1430	102		85		90		84		97	
K5154-25	MW-101I	1433	101		83		87		82		96	
K5154-26	MW-101D	1437	98		79		84		78		93	
ZZZZZZ	ZZZZZZ	1440										
ZZZZZZ	ZZZZZZ	1444										
K5157-02DUP	S49-0539DUP	1448	90		73		77		69	*	88	
K5157-02L	S49-0539L	1451	90		81		87		82		96	
K5157-03	S49-0539MS	1455	89		73		77		67	*	87	
K5157-04	S49-0539MSD	1458	89		73		78		66	*	88	
CCV54	CCV54	1508	82		78		83		74		91	
CCB54	CCB54	1514	90		84		89		88		97	
K5157-02A	S49-0539A	1517	89		76		80		72		89	
ZZZZZZ	ZZZZZZ	1521										
ZZZZZZ	ZZZZZZ	1525										
ZZZZZZ	ZZZZZZ	1528										
ZZZZZZ	ZZZZZZ	1532										
ZZZZZZ	ZZZZZZ	1535										
ZZZZZZ	ZZZZZZ	1539										
ZZZZZZ	ZZZZZZ	1554										
ZZZZZZ	ZZZZZZ	1557										
CCV55	CCV55	1603	78		74		79		71		88	
CCB55	CCB55	1608	83		77		83		82		91	

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: TRC Companies, Inc.

Contract: TRCE03

Lab Code: CHEM Case no.: K5154

Sas No.: K5154 SDG No.: K5154

Instrument ID: P7

Start Date : 10/14/2019

Run Number: LB105691

End Date : 10/14/2019

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
S0	S0	1029	100		100		100		100		100	
S2	S2	1037	101		101		101		100		105	
S3	S3	1041	98		98		98		99		103	
S4	S4	1045	92		94		93		96		101	
S5	S5	1049	84		86		85		91		95	
S6	S6	1053	77		79		77		87		88	
S7	S7	1056	76		78		74		86		87	
S8	S8	1100	90		90		78		91		95	
ICV01	ICV01	1151	89		89		90		92		97	
LLICV01	LLICV01	1218	103		101		102		100		105	
ICB01	ICB01	1222	103		102		103		101		106	
ICSA01	ICSA01	1225	91		91		86		93		100	
ICSAB01	ICSAB01	1229	93		93		88		95		100	
CCV51	CCV51	1233	92		91		84		93		98	
CCB51	CCB51	1237	106		103		104		102		106	
CRI	CRI	1241	105		103		103		101		106	
ZZZZZZ	ZZZZZZ	1244										
ZZZZZZ	ZZZZZZ	1248										
ZZZZZZ	ZZZZZZ	1252										
ZZZZZZ	ZZZZZZ	1255										
ZZZZZZ	ZZZZZZ	1259										
ZZZZZZ	ZZZZZZ	1302										
ZZZZZZ	ZZZZZZ	1306										
ZZZZZZ	ZZZZZZ	1309										
ZZZZZZ	ZZZZZZ	1313										
CCV52	CCV52	1317	96		94		86		94		100	
CCB52	CCB52	1320	106		103		104		102		108	
ZZZZZZ	ZZZZZZ	1324										
ZZZZZZ	ZZZZZZ	1327										
ZZZZZZ	ZZZZZZ	1331										
ZZZZZZ	ZZZZZZ	1335										
ZZZZZZ	ZZZZZZ	1338										
ZZZZZZ	ZZZZZZ	1342										
PB123873BL	PB123873BL	1350	99		97		97		97		102	
PB123873BS	PB123873BS	1353	97		95		92		96		102	
K5154-21	MW-102S	1357	86		85		85		88		93	
K5154-22	MW-102I	1401	80		80		79		86		91	

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: TRC Companies, Inc.

Contract: TRCE03

Lab Code: CHEM Case no.: K5154

Sas No.: K5154 SDG No.: K5154

Instrument ID: P7

Start Date : 10/14/2019

Run Number: LB105691

End Date : 10/14/2019

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
CCV53	CCV53	1418	88		87		80		91		95	
CCB53	CCB53	1423	95		95		96		97		103	
K5154-23	MW-102D	1426	82		81		79		87		91	
K5154-24	MW-101S	1430	74		75		75		83		83	
K5154-25	MW-101I	1433	74		76		75		84		85	
K5154-26	MW-101D	1437	73		74		73		83		85	
ZZZZZZ	ZZZZZZ	1440										
ZZZZZZ	ZZZZZZ	1444										
K5157-02DUP	S49-0539DUP	1448	66	*	67	*	65	*	77		78	
K5157-02L	S49-0539L	1451	74		76		77		85		86	
K5157-03	S49-0539MS	1455	66	*	67	*	64	*	76		77	
K5157-04	S49-0539MSD	1458	66	*	67	*	64	*	77		78	
CCV54	CCV54	1508	73		74		70		82		83	
CCB54	CCB54	1514	78		80		83		87		90	
K5157-02A	S49-0539A	1517	67	*	68	*	65	*	76		77	
ZZZZZZ	ZZZZZZ	1521										
ZZZZZZ	ZZZZZZ	1525										
ZZZZZZ	ZZZZZZ	1528										
ZZZZZZ	ZZZZZZ	1532										
ZZZZZZ	ZZZZZZ	1535										
ZZZZZZ	ZZZZZZ	1539										
ZZZZZZ	ZZZZZZ	1554										
ZZZZZZ	ZZZZZZ	1557										
CCV55	CCV55	1603	70		72		67	*	79		80	
CCB55	CCB55	1608	73		73		76		81		81	

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: TRC Companies, Inc.

Contract: TRCE03

Lab Code: CHEM Case no.: K5154

Sas No.: K5154 SDG No.: K5154

Instrument ID: P7

Start Date : 10/16/2019

Run Number: LB105753

End Date : 10/16/2019

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
S0	S0	1212	100		100		100		100		100	
S1	S1	1216	100		100		98		97		97	
S2	S2	1220	100		101		98		98		97	
S3	S3	1224	98		98		96		95		97	
S4	S4	1228	91		92		91		88		94	
S5	S5	1232	83		82		83		79		88	
S6	S6	1235	80		80		81		76		87	
S7	S7	1239	75		76		78		69	*	85	
S8	S8	1243	78		84		83		70		86	
ICV01	ICV01	1318	94		96		95		92		96	
ICB01	ICB01	1323	96		96		95		93		95	
ICSA01	ICSA01	1327	92		95		95		86		97	
ICSAB01	ICSAB01	1330	94		99		98		89		100	
CCV70	CCV70	1335	91		99		99		87		99	
LLCCV	LLCCV	1344	115		123		118		115		111	
CCB70	CCB70	1347	115		122		116		114		111	
CRI	CRI	1351	116		122		117		114		111	
K5154-04	MW-106I	1354	115		122		116		112		110	
K5154-10	MW-103S	1358	115		121		115		109		110	
ZZZZZZ	ZZZZZZ	1402										
ZZZZZZ	ZZZZZZ	1405										
ZZZZZZ	ZZZZZZ	1409										
ZZZZZZ	ZZZZZZ	1412										
ZZZZZZ	ZZZZZZ	1416										
ZZZZZZ	ZZZZZZ	1419										
CCV71	CCV71	1423	85		90		91		80		94	
CCB71	CCB71	1427	96		98		98		95		99	

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: TRC Companies, Inc.

Contract: TRCE03

Lab Code: CHEM Case no.: K5154

Sas No.: K5154 SDG No.: K5154

Instrument ID: P7

Start Date : 10/16/2019

Run Number: LB105753

End Date : 10/16/2019

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
S0	S0	1212	100		100		100		100		100	
S1	S1	1216	101		101		100		96		96	
S2	S2	1220	101		101		100		97		98	
S3	S3	1224	96		97		95		94		94	
S4	S4	1228	88		89		88		91		91	
S5	S5	1232	81		83		81		87		88	
S6	S6	1235	80		81		78		85		86	
S7	S7	1239	76		77		73		81		83	
S8	S8	1243	99		96		82		91		92	
ICV01	ICV01	1318	93		92		92		92		92	
ICB01	ICB01	1323	100		99		98		96		97	
ICSA01	ICSA01	1327	97		95		88		94		95	
ICSAB01	ICSAB01	1330	100		98		91		96		97	
CCV70	CCV70	1335	104		101		90		95		97	
LLCCV	LLCCV	1344	122		118		115		109		110	
CCB70	CCB70	1347	120		117		114		109		109	
CRI	CRI	1351	121		117		114		109		109	
K5154-04	MW-106I	1354	120		117		113		109		109	
K5154-10	MW-103S	1358	119		115		110		107		108	
ZZZZZZ	ZZZZZZ	1402										
ZZZZZZ	ZZZZZZ	1405										
ZZZZZZ	ZZZZZZ	1409										
ZZZZZZ	ZZZZZZ	1412										
ZZZZZZ	ZZZZZZ	1416										
ZZZZZZ	ZZZZZZ	1419										
CCV71	CCV71	1423	89		89		80		88		89	
CCB71	CCB71	1427	98		96		96		95		96	

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: TRC Companies, Inc.

Contract: TRCE03

Lab Code: CHEM Case no.: K5154

Sas No.: K5154 SDG No.: K5154

Instrument ID: P7

Start Date : 10/17/2019

Run Number: LB105778

End Date : 10/17/2019

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
S0	S0	1700	100		100		100		100		100	
S2	S2	1709	102		98		98		99		96	
S3	S3	1713	106		97		96		96		97	
S4	S4	1717	106		95		95		94		96	
S5	S5	1720	105		94		95		93		98	
S6	S6	1724	99		96		98		94		98	
S7	S7	1728	94		100		103		95		101	
S8	S8	1732	89		104		102		88		93	
ICV01	ICV01	1754	99		109		110		108		102	
ICB01	ICB01	1758	99		109		110		108		102	
ICSA01	ICSA01	1801	89		108		110		100		104	
ICSAB01	ICSAB01	1805	80		109		112		101		104	
CCV76	CCV76	1809	83		107		109		96		100	
LLCCV	LLCCV	1827	89		114		115		112		103	
CCB76	CCB76	1831	87		113		114		111		103	
CRI	CRI	1834	88		115		116		112		104	
ZZZZZZ	ZZZZZZ	1838										
K5157-02DUP	S49-0539DUP	1841	53	*	105		111		103		102	
K5157-02L	S49-0539L	1845	66	*	108		114		111		106	
K5157-03	S49-0539MS	1849	50	*	100		108		101		101	
K5157-04	S49-0539MSD	1852	47	*	98		107		100		102	
K5157-02A	S49-0539A	1856	48	*	98		108		101		104	
CCV77	CCV77	1905	72		101		106		95		103	
CCB77	CCB77	1909	79		109		114		111		107	

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: TRC Companies, Inc.

Contract: TRCE03

Lab Code: CHEM Case no.: K5154

Sas No.: K5154 SDG No.: K5154

Instrument ID: P7

Start Date : 10/17/2019

Run Number: LB105778

End Date : 10/17/2019

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
S0	S0	1700	100		100		100		100		100	
S2	S2	1709	100		100		100		96		96	
S3	S3	1713	97		97		96		97		96	
S4	S4	1717	96		95		94		96		96	
S5	S5	1720	96		97		94		97		97	
S6	S6	1724	101		102		96		99		99	
S7	S7	1728	105		104		95		99		98	
S8	S8	1732	115		109		89		94		93	
ICV01	ICV01	1754	115		113		107		102		101	
ICB01	ICB01	1758	116		113		108		103		102	
ICSA01	ICSA01	1801	116		112		100		102		102	
ICSAB01	ICSAB01	1805	120		115		101		101		100	
CCV76	CCV76	1809	120		113		96		98		98	
LLCCV	LLCCV	1827	124		119		112		103		103	
CCB76	CCB76	1831	126		122		115		106		105	
CRI	CRI	1834	124		119		113		104		103	
ZZZZZZ	ZZZZZZ	1838										
K5157-02DUP	S49-0539DUP	1841	117		109		101		93		92	
K5157-02L	S49-0539L	1845	118		113		108		100		99	
K5157-03	S49-0539MS	1849	115		106		98		92		91	
K5157-04	S49-0539MSD	1852	111		104		97		91		91	
K5157-02A	S49-0539A	1856	112		104		98		93		92	
CCV77	CCV77	1905	113		108		94		99		99	
CCB77	CCB77	1909	117		114		110		103		103	

Internal Standard %RI Limit: 70 - 130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: TRC Companies, Inc.

Contract: TRCE03

Lab Code: CHEM Case no.: K5154

Sas No.: K5154 SDG No.: K5154

Instrument ID: P7

Start Date : 10/10/2019

Run Number: LB105633

End Date : 10/10/2019

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
S0	S0	1502	100		100							
S2	S2	1510	102		101							
S3	S3	1514	101		100							
S4	S4	1518	99		97							
S5	S5	1522	95		93							
S6	S6	1525	94		90							
S7	S7	1529	93		87							
S8	S8	1533	91		78							
ICV01	ICV01	1540	100		98							
LLICV01	LLICV01	1553	103		101							
ICB01	ICB01	1601	104		102							
ICSA01	ICSA01	1614	104		93							
ICSAB01	ICSAB01	1618	104		93							
CCV35	CCV35	1630	100		88							
CCB35	CCB35	1639	106		103							
CRI	CRI	1643	108		104							
PB123625BL	PB123625BL	1646	110		106							
PB123625BS	PB123625BS	1650	105		97							
ZZZZZZ	ZZZZZZ	1659										
ZZZZZZ	ZZZZZZ	1702										
ZZZZZZ	ZZZZZZ	1706										
ZZZZZZ	ZZZZZZ	1709										
ZZZZZZ	ZZZZZZ	1713										
ZZZZZZ	ZZZZZZ	1717										
ZZZZZZ	ZZZZZZ	1720										
CCV36	CCV36	1725	95		85							
CCB36	CCB36	1745	100		101							
K5154-02	FB-10012019	1750	94		93							
K5154-03	MW-106S	1753	92		84							
K5154-04	MW-106I	1757	96		86							
K5154-05	MW-106D	1801	91		76							
K5154-06	MW-107	1804	91		75							
K5154-10	MW-103S	1808	94		78							
K5154-11	MW-103I	1811	98		87							
K5154-11DUP	MW-103IDUP	1815	96		86							

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: TRC Companies, Inc.

Contract: TRCE03

Lab Code: CHEM Case no.: K5154

Sas No.: K5154 SDG No.: K5154

Instrument ID: P7

Start Date : 10/10/2019

Run Number: LB105633

End Date : 10/10/2019

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
K5154-11L	MW-103IL	1819	101		97							
K5154-12	MW-103IMS	1822	90		81							
CCV37	CCV37	1833	95		84							
CCB37	CCB37	1851	99		98							
K5154-13	MW-103IMSD	1855	93		84							
K5154-11A	MW-103IA	1858	91		82							
K5154-14	MW-103D	1902	94		93							
K5154-15	MW-105S	1906	93		84							
K5154-16	MW-105I	1909	95		86							
K5154-17	MW-105D	1913	95		92							
K5154-18	MW-104I	1916	96		89							
K5154-19	MW-104D	1920	77		60	*						
ZZZZZZ	ZZZZZZ	1927										
ZZZZZZ	ZZZZZZ	1931										
CCV38	CCV38	1937	97		86							
CCB38	CCB38	1954	103		101							
K5154-05	MW-106D	1958	103		94							
K5154-06	MW-107	2001	103		96							
K5154-19	MW-104D	2005	99		84							
K5154-02	FB-10012019	2009	112		107							
K5154-19	MW-104D	2012	102		95							
CCV39	CCV39	2016	98		86							
CCB39	CCB39	2019	103		100							

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: TRC Companies, Inc.

Contract: TRCE03

Lab Code: CHEM Case no.: K5154

Sas No.: K5154 SDG No.: K5154

Instrument ID: P7

Start Date : 10/10/2019

Run Number: LB105633

End Date : 10/10/2019

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	S0	1502	100									
S2	S2	1510	102									
S3	S3	1514	100									
S4	S4	1518	96									
S5	S5	1522	91									
S6	S6	1525	88									
S7	S7	1529	85									
S8	S8	1533	81									
ICV01	ICV01	1540	97									
LLICV01	LLICV01	1553	102									
ICB01	ICB01	1601	103									
ICSA01	ICSA01	1614	93									
ICSAB01	ICSAB01	1618	94									
CCV35	CCV35	1630	87									
CCB35	CCB35	1639	104									
CRI	CRI	1643	105									
PB123625BL	PB123625BL	1646	107									
PB123625BS	PB123625BS	1650	99									
ZZZZZZ	ZZZZZZ	1659										
ZZZZZZ	ZZZZZZ	1702										
ZZZZZZ	ZZZZZZ	1706										
ZZZZZZ	ZZZZZZ	1709										
ZZZZZZ	ZZZZZZ	1713										
ZZZZZZ	ZZZZZZ	1717										
ZZZZZZ	ZZZZZZ	1720										
CCV36	CCV36	1725	82									
CCB36	CCB36	1745	99									
K5154-02	FB-10012019	1750	86									
K5154-03	MW-106S	1753	80									
K5154-04	MW-106I	1757	82									
K5154-05	MW-106D	1801	73									
K5154-06	MW-107	1804	72									
K5154-10	MW-103S	1808	76									
K5154-11	MW-103I	1811	83									
K5154-11DUP	MW-103IDUP	1815	83									

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: TRC Companies, Inc.

Contract: TRCE03

Lab Code: CHEM Case no.: K5154

Sas No.: K5154 SDG No.: K5154

Instrument ID: P7

Start Date : 10/10/2019

Run Number: LB105633

End Date : 10/10/2019

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
K5154-11L	MW-103IL	1819	91									
K5154-12	MW-103IMS	1822	77									
CCV37	CCV37	1833	82									
CCB37	CCB37	1851	96									
K5154-13	MW-103IMSD	1855	77									
K5154-11A	MW-103IA	1858	77									
K5154-14	MW-103D	1902	86									
K5154-15	MW-105S	1906	79									
K5154-16	MW-105I	1909	82									
K5154-17	MW-105D	1913	86									
K5154-18	MW-104I	1916	84									
K5154-19	MW-104D	1920	57	*								
ZZZZZZ	ZZZZZZ	1927										
ZZZZZZ	ZZZZZZ	1931										
CCV38	CCV38	1937	84									
CCB38	CCB38	1954	98									
K5154-05	MW-106D	1958	94									
K5154-06	MW-107	2001	95									
K5154-19	MW-104D	2005	83									
K5154-02	FB-10012019	2009	102									
K5154-19	MW-104D	2012	97									
CCV39	CCV39	2016	85									
CCB39	CCB39	2019	100									

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: TRC Companies, Inc.

Contract: TRCE03

Lab Code: CHEM Case no.: K5154

Sas No.: K5154 SDG No.: K5154

Instrument ID: P7

Start Date : 10/14/2019

Run Number: LB105691

End Date : 10/14/2019

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
S0	S0	1029	100		100							
S2	S2	1037	106		105							
S3	S3	1041	106		104							
S4	S4	1045	104		100							
S5	S5	1049	99		97							
S6	S6	1053	95		91							
S7	S7	1056	94		87							
S8	S8	1100	96		81							
ICV01	ICV01	1151	104		102							
LLICV01	LLICV01	1218	109		106							
ICB01	ICB01	1222	109		107							
ICSA01	ICSA01	1225	103		93							
ICSAB01	ICSAB01	1229	106		95							
CCV51	CCV51	1233	103		91							
CCB51	CCB51	1237	110		108							
CRI	CRI	1241	110		108							
ZZZZZZ	ZZZZZZ	1244										
ZZZZZZ	ZZZZZZ	1248										
ZZZZZZ	ZZZZZZ	1252										
ZZZZZZ	ZZZZZZ	1255										
ZZZZZZ	ZZZZZZ	1259										
ZZZZZZ	ZZZZZZ	1302										
ZZZZZZ	ZZZZZZ	1306										
ZZZZZZ	ZZZZZZ	1309										
ZZZZZZ	ZZZZZZ	1313										
CCV52	CCV52	1317	106		93							
CCB52	CCB52	1320	112		109							
ZZZZZZ	ZZZZZZ	1324										
ZZZZZZ	ZZZZZZ	1327										
ZZZZZZ	ZZZZZZ	1331										
ZZZZZZ	ZZZZZZ	1335										
ZZZZZZ	ZZZZZZ	1338										
ZZZZZZ	ZZZZZZ	1342										
PB123873BL	PB123873BL	1350	108		105							
PB123873BS	PB123873BS	1353	109		101							

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: TRC Companies, Inc.

Contract: TRCE03

Lab Code: CHEM Case no.: K5154

Sas No.: K5154 SDG No.: K5154

Instrument ID: P7

Start Date : 10/14/2019

Run Number: LB105691

End Date : 10/14/2019

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
K5154-21	MW-102S	1357	101		101							
K5154-22	MW-102I	1401	100		94							
CCV53	CCV53	1418	100		89							
CCB53	CCB53	1423	108		106							
K5154-23	MW-102D	1426	101		93							
K5154-24	MW-101S	1430	99		92							
K5154-25	MW-101I	1433	97		91							
K5154-26	MW-101D	1437	95		88							
ZZZZZZ	ZZZZZZ	1440										
ZZZZZZ	ZZZZZZ	1444										
K5157-02DUP	S49-0539DUP	1448	89		81							
K5157-02L	S49-0539L	1451	98		94							
K5157-03	S49-0539MS	1455	89		79							
K5157-04	S49-0539MSD	1458	90		80							
CCV54	CCV54	1508	93		84							
CCB54	CCB54	1514	98		99							
K5157-02A	S49-0539A	1517	90		81							
ZZZZZZ	ZZZZZZ	1521										
ZZZZZZ	ZZZZZZ	1525										
ZZZZZZ	ZZZZZZ	1528										
ZZZZZZ	ZZZZZZ	1532										
ZZZZZZ	ZZZZZZ	1535										
ZZZZZZ	ZZZZZZ	1539										
ZZZZZZ	ZZZZZZ	1554										
ZZZZZZ	ZZZZZZ	1557										
CCV55	CCV55	1603	90		82							
CCB55	CCB55	1608	92		94							

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: TRC Companies, Inc.

Contract: TRCE03

Lab Code: CHEM Case no.: K5154

Sas No.: K5154 SDG No.: K5154

Instrument ID: P7

Start Date : 10/14/2019

Run Number: LB105691

End Date : 10/14/2019

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	S0	1029	100									
S2	S2	1037	101									
S3	S3	1041	100									
S4	S4	1045	96									
S5	S5	1049	90									
S6	S6	1053	86									
S7	S7	1056	83									
S8	S8	1100	78									
ICV01	ICV01	1151	94									
LLICV01	LLICV01	1218	101									
ICB01	ICB01	1222	102									
ICSA01	ICSA01	1225	89									
ICSAB01	ICSAB01	1229	89									
CCV51	CCV51	1233	85									
CCB51	CCB51	1237	102									
CRI	CRI	1241	101									
ZZZZZZ	ZZZZZZ	1244										
ZZZZZZ	ZZZZZZ	1248										
ZZZZZZ	ZZZZZZ	1252										
ZZZZZZ	ZZZZZZ	1255										
ZZZZZZ	ZZZZZZ	1259										
ZZZZZZ	ZZZZZZ	1302										
ZZZZZZ	ZZZZZZ	1306										
ZZZZZZ	ZZZZZZ	1309										
ZZZZZZ	ZZZZZZ	1313										
CCV52	CCV52	1317	85									
CCB52	CCB52	1320	101									
ZZZZZZ	ZZZZZZ	1324										
ZZZZZZ	ZZZZZZ	1327										
ZZZZZZ	ZZZZZZ	1331										
ZZZZZZ	ZZZZZZ	1335										
ZZZZZZ	ZZZZZZ	1338										
ZZZZZZ	ZZZZZZ	1342										
PB123873BL	PB123873BL	1350	96									
PB123873BS	PB123873BS	1353	92									

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: TRC Companies, Inc.

Contract: TRCE03

Lab Code: CHEM Case no.: K5154

Sas No.: K5154 SDG No.: K5154

Instrument ID: P7

Start Date : 10/14/2019

Run Number: LB105691

End Date : 10/14/2019

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
K5154-21	MW-102S	1357	88									
K5154-22	MW-102I	1401	83									
CCV53	CCV53	1418	82									
CCB53	CCB53	1423	97									
K5154-23	MW-102D	1426	82									
K5154-24	MW-101S	1430	80									
K5154-25	MW-101I	1433	81									
K5154-26	MW-101D	1437	79									
ZZZZZZ	ZZZZZZ	1440										
ZZZZZZ	ZZZZZZ	1444										
K5157-02DUP	S49-0539DUP	1448	71									
K5157-02L	S49-0539L	1451	84									
K5157-03	S49-0539MS	1455	70									
K5157-04	S49-0539MSD	1458	70									
CCV54	CCV54	1508	76									
CCB54	CCB54	1514	89									
K5157-02A	S49-0539A	1517	70									
ZZZZZZ	ZZZZZZ	1521										
ZZZZZZ	ZZZZZZ	1525										
ZZZZZZ	ZZZZZZ	1528										
ZZZZZZ	ZZZZZZ	1532										
ZZZZZZ	ZZZZZZ	1535										
ZZZZZZ	ZZZZZZ	1539										
ZZZZZZ	ZZZZZZ	1554										
ZZZZZZ	ZZZZZZ	1557										
CCV55	CCV55	1603	74									
CCB55	CCB55	1608	84									

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: TRC Companies, Inc.

Contract: TRCE03

Lab Code: CHEM Case no.: K5154

Sas No.: K5154 SDG No.: K5154

Instrument ID: P7

Start Date : 10/16/2019

Run Number: LB105753

End Date : 10/16/2019

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
S0	S0	1212	100		100							
S1	S1	1216	97		96							
S2	S2	1220	97		96							
S3	S3	1224	97		95							
S4	S4	1228	94		93							
S5	S5	1232	89		87							
S6	S6	1235	88		84							
S7	S7	1239	86		80							
S8	S8	1243	88		74							
ICV01	ICV01	1318	97		95							
ICB01	ICB01	1323	96		93							
ICSA01	ICSA01	1327	98		88							
ICSAB01	ICSAB01	1330	101		90							
CCV70	CCV70	1335	99		85							
LLCCV	LLCCV	1344	111		106							
CCB70	CCB70	1347	110		106							
CRI	CRI	1351	110		105							
K5154-04	MW-106I	1354	110		104							
K5154-10	MW-103S	1358	110		102							
ZZZZZZ	ZZZZZZ	1402										
ZZZZZZ	ZZZZZZ	1405										
ZZZZZZ	ZZZZZZ	1409										
ZZZZZZ	ZZZZZZ	1412										
ZZZZZZ	ZZZZZZ	1416										
ZZZZZZ	ZZZZZZ	1419										
CCV71	CCV71	1423	96		82							
CCB71	CCB71	1427	100		98							

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: TRC Companies, Inc.

Contract: TRCE03

Lab Code: CHEM Case no.: K5154

Sas No.: K5154 SDG No.: K5154

Instrument ID: P7

Start Date : 10/16/2019

Run Number: LB105753

End Date : 10/16/2019

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	S0	1212	100									
S1	S1	1216	100									
S2	S2	1220	100									
S3	S3	1224	97									
S4	S4	1228	93									
S5	S5	1232	88									
S6	S6	1235	85									
S7	S7	1239	80									
S8	S8	1243	79									
ICV01	ICV01	1318	94									
ICB01	ICB01	1323	98									
ICSA01	ICSA01	1327	88									
ICSAB01	ICSAB01	1330	89									
CCV70	CCV70	1335	87									
LLCCV	LLCCV	1344	107									
CCB70	CCB70	1347	106									
CRI	CRI	1351	108									
K5154-04	MW-106I	1354	106									
K5154-10	MW-103S	1358	102									
ZZZZZZ	ZZZZZZ	1402										
ZZZZZZ	ZZZZZZ	1405										
ZZZZZZ	ZZZZZZ	1409										
ZZZZZZ	ZZZZZZ	1412										
ZZZZZZ	ZZZZZZ	1416										
ZZZZZZ	ZZZZZZ	1419										
CCV71	CCV71	1423	80									
CCB71	CCB71	1427	96									

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: TRC Companies, Inc.

Contract: TRCE03

Lab Code: CHEM Case no.: K5154

Sas No.: K5154 SDG No.: K5154

Instrument ID: P7

Start Date : 10/17/2019

Run Number: LB105778

End Date : 10/17/2019

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
S0	S0	1700	100		100							
S2	S2	1709	97		94							
S3	S3	1713	98		97							
S4	S4	1717	98		97							
S5	S5	1720	98		97							
S6	S6	1724	99		94							
S7	S7	1728	101		91							
S8	S8	1732	93		74							
ICV01	ICV01	1754	102		96							
ICB01	ICB01	1758	101		96							
ICSA01	ICSA01	1801	105		90							
ICSAB01	ICSAB01	1805	104		88							
CCV76	CCV76	1809	100		83							
LLCCV	LLCCV	1827	103		95							
CCB76	CCB76	1831	102		94							
CRI	CRI	1834	103		95							
ZZZZZZ	ZZZZZZ	1838										
K5157-02DUP	S49-0539DUP	1841	101		86							
K5157-02L	S49-0539L	1845	106		95							
K5157-03	S49-0539MS	1849	103		87							
K5157-04	S49-0539MSD	1852	102		88							
K5157-02A	S49-0539A	1856	104		90							
CCV77	CCV77	1905	104		87							
CCB77	CCB77	1909	106		98							

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: TRC Companies, Inc.

Contract: TRCE03

Lab Code: CHEM Case no.: K5154

Sas No.: K5154 SDG No.: K5154

Instrument ID: P7

Start Date : 10/17/2019

Run Number: LB105778

End Date : 10/17/2019

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	S0	1700	100									
S2	S2	1709	96									
S3	S3	1713	97									
S4	S4	1717	95									
S5	S5	1720	95									
S6	S6	1724	93									
S7	S7	1728	89									
S8	S8	1732	74									
ICV01	ICV01	1754	98									
ICB01	ICB01	1758	99									
ICSA01	ICSA01	1801	88									
ICSAB01	ICSAB01	1805	85									
CCV76	CCV76	1809	81									
LLCCV	LLCCV	1827	96									
CCB76	CCB76	1831	98									
CRI	CRI	1834	96									
ZZZZZZ	ZZZZZZ	1838										
K5157-02DUP	S49-0539DUP	1841	79									
K5157-02L	S49-0539L	1845	90									
K5157-03	S49-0539MS	1849	78									
K5157-04	S49-0539MSD	1852	79									
K5157-02A	S49-0539A	1856	81									
CCV77	CCV77	1905	83									
CCB77	CCB77	1909	97									

Internal Standard %RI Limit: 70 -130

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

MW-103IL

Lab Name: Chemtech Consulting Group

Contract: TRCE03

Lab Code: CHEM **Lb No.:** lb105633

Lab Sample ID : K5154-11L **SDG No.:** K5154

Matrix (soil/water): Water

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
Aluminum	18.7	J	21.3	J	14		P
Antimony	0.64	J	1.10	J	72		P
Arsenic	8.54		8.50		0		P
Barium	146		147		0		P
Beryllium	1.00	U	5.00	U			P
Cadmium	1.00	U	5.00	U			P
Calcium	45300		44500		2		P
Chromium	1.17	J	1.30	J	11		P
Cobalt	0.37	J	0.35	J	5		P
Copper	7.25		26.6		267		P
Iron	2090		2180		4		P
Lead	1.71		1.50	J	12		P
Magnesium	62900		62000		1		P
Manganese	844		869		3		P
Nickel	0.58	J	0.45	J	22		P
Mercury	0.20	U	1.00	U			CV
Potassium	28600		28800		1		P
Selenium	3.87	J	25.0	U	100.0		P
Silver	1.00	U	5.00	U			P
Sodium	267000		264000		1		P
Thallium	1.00	U	5.00	U			P
Vanadium	1.05	J	1.55	J	48		P
Zinc	42.7		49.5		16		P

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

MW-102SL

Lab Name: Chemtech Consulting Group **Contract:** TRCE03
Lab Code: CHEM **Lb No.:** lb105539 **Lab Sample ID :** K5154-21L **SDG No.:** K5154
Matrix (soil/water): Water **Level (low/med):** LOW
Concentration Units: ug/L

Analyte	Initial Sample Result (I) C			Serial Dilution Result (S) C			% Differ- ence	Q	M
Mercury	0.20	U		1.00	U				CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

S49-0539L

Lab Name: Chemtech Consulting Group

Contract: TRCE03

Lab Code: CHEM

Lb No.: lb105778

Lab Sample ID : K5157-02L

SDG No.: K5154

Matrix (soil/water): Water

Level (low/med):

LOW

Concentration Units:

ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
	C		C				
Aluminum	67.0	JD	500	UD	13		P
Antimony	1.31	J	2.25	J	72		P
Arsenic	71.2	D	69.8	D	2		P
Barium	149		153		3		P
Beryllium	1.00	U	5.00	U			P
Cadmium	1.00	U	5.00	U			P
Calcium	220000		225000		2		P
Chromium	1.70	JD	2.25	JD	32		P
Cobalt	0.40	JD	25.0	UD	38		P
Copper	3.75	JD	50.0	UD	27		P
Iron	13100	D	13000	D	1		P
Lead	0.40	J	0.70	J	75		P
Magnesium	74100	D	70500	D	5		P
Manganese	858	D	848	D	1		P
Nickel	1.40	JD	25.0	UD	11		P
Potassium	13100	D	12600	D	4		P
Selenium	5.00	U	25.0	U			P
Silver	1.00	U	5.00	U			P
Sodium	460000	D	441000	D	4		P
Thallium	0.030	J	5.00	U	100.0		P
Vanadium	0.60	JD	125	UD	25		P
Zinc	3.45	JD	50.0	UD	100		P

METAL PREPARATION & INSTRUMENT DATA

Metals

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Client: TRC Companies, Inc. **SDG No.:** K5154
Contract: TRCE03 **Lab Code:** CHEM **Case No.:** K5154 **SAS No.:** K5154
Instrument ID: P7 **Preparation Method:**

Analyte	Wave- length (nm)	MDL	LOQ/CRQL	Date:
LIQUID				
Method:	6020B			
Aluminum	27.0	3.70	20.0	
Antimony	121	0.076	2.00	
Arsenic	75.0	0.12	1.00	
Barium	137	0.18	10.0	
Beryllium	9.00	0.068	1.00	
Cadmium	111	0.26	1.00	
Calcium	44.0	14.3	500	
Chromium	52.0	0.075	2.00	
Cobalt	59.0	0.053	1.00	
Copper	63.0	0.49	2.00	
Iron	57.0	2.70	50.0	
Lead	208	0.019	1.00	
Magnesium	24.0	3.70	500	
Manganese	55.0	0.073	1.00	
Nickel	60.0	0.068	1.00	
Potassium	39.0	19.9	500	
Selenium	82.0	3.30	5.00	
Silver	107	0.30	1.00	
Sodium	23.0	28.5	500	
Thallium	205	0.030	1.00	
Vanadium	51.0	0.070	5.00	
Zinc	66.0	0.56	2.00	

Metals
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Client:

TRC Companies, Inc.

SDG No.:

K5154

Contract:

TRCE03

Lab Code:

CHEM

Case No.:

K5154

SAS No.:

K5154

Instrument ID:

CV1

Preparation Method:

Analyte	Wave- length (nm)	MDL	LOQ/CRQL	Date:
LIQUID				
Method: Mercury	7470A 254	0.043	0.20	

METAL PREPARATION & ANALYICAL SUMMARY

Metals
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SAMPLE PREPARATION SUMMARY

Client: TRC Companies, Inc. SDG No.: K5154
Contract: TRCE03 Lab Code: CHEM Method:
Case No.: K5154 SAS No.: K5154

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB123618							
K5154-02	FB-10012019	SAM	WATER	10/02/2019	30.0	30.0	
K5154-03	MW-106S	SAM	WATER	10/02/2019	30.0	30.0	
K5154-04	MW-106I	SAM	WATER	10/02/2019	30.0	30.0	
K5154-05	MW-106D	SAM	WATER	10/02/2019	30.0	30.0	
K5154-06	MW-107	SAM	WATER	10/02/2019	30.0	30.0	
K5154-10	MW-103S	SAM	WATER	10/02/2019	30.0	30.0	
K5154-11	MW-103I	SAM	WATER	10/02/2019	30.0	30.0	
K5154-11DUP	MW-103IDUP	DUP	WATER	10/02/2019	30.0	30.0	
K5154-12	MW-103IMS	MS	WATER	10/02/2019	30.0	30.0	
K5154-13	MW-103IMSD	MSD	WATER	10/02/2019	30.0	30.0	
K5154-14	MW-103D	SAM	WATER	10/02/2019	30.0	30.0	
K5154-15	MW-105S	SAM	WATER	10/02/2019	30.0	30.0	
K5154-16	MW-105I	SAM	WATER	10/02/2019	30.0	30.0	
K5154-17	MW-105D	SAM	WATER	10/02/2019	30.0	30.0	
K5154-18	MW-104I	SAM	WATER	10/02/2019	30.0	30.0	
K5154-19	MW-104D	SAM	WATER	10/02/2019	30.0	30.0	
PB123618BL	PB123618BL	MB	WATER	10/02/2019	30.0	30.0	
PB123618BS	PB123618BS	LCS	WATER	10/02/2019	30.0	30.0	

Metals
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SAMPLE PREPARATION SUMMARY

Client: <u>TRC Companies, Inc.</u>	SDG No.: <u>K5154</u>	
Contract: <u>TRCE03</u>	Lab Code: <u>CHEM</u>	Method: <u></u>
	Case No.: <u>K5154</u>	SAS No.: <u>K5154</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB123625							
K5154-02	FB-10012019	SAM	WATER	10/03/2019	50.0	50.0	
K5154-03	MW-106S	SAM	WATER	10/03/2019	50.0	50.0	
K5154-04	MW-106I	SAM	WATER	10/03/2019	50.0	50.0	
K5154-05	MW-106D	SAM	WATER	10/03/2019	50.0	50.0	
K5154-06	MW-107	SAM	WATER	10/03/2019	50.0	50.0	
K5154-10	MW-103S	SAM	WATER	10/03/2019	50.0	50.0	
K5154-11	MW-103I	SAM	WATER	10/03/2019	50.0	50.0	
K5154-11DUP	MW-103IDUP	DUP	WATER	10/03/2019	50.0	50.0	
K5154-12	MW-103IMS	MS	WATER	10/03/2019	50.0	50.0	
K5154-13	MW-103IMSD	MSD	WATER	10/03/2019	50.0	50.0	
K5154-14	MW-103D	SAM	WATER	10/03/2019	50.0	50.0	
K5154-15	MW-105S	SAM	WATER	10/03/2019	50.0	50.0	
K5154-16	MW-105I	SAM	WATER	10/03/2019	50.0	50.0	
K5154-17	MW-105D	SAM	WATER	10/03/2019	50.0	50.0	
K5154-18	MW-104I	SAM	WATER	10/03/2019	50.0	50.0	
K5154-19	MW-104D	SAM	WATER	10/03/2019	50.0	50.0	
PB123625BL	PB123625BL	MB	WATER	10/03/2019	50.0	50.0	
PB123625BS	PB123625BS	LCS	WATER	10/03/2019	50.0	50.0	

Metals
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SAMPLE PREPARATION SUMMARY

Client:	<u>TRC Companies, Inc.</u>	SDG No.:	<u>K5154</u>
Contract:	<u>TRCE03</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>K5154</u>
		SAS No.:	<u>K5154</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB123712							
K5154-21	MW-102S	SAM	WATER	10/07/2019	30.0	30.0	
K5154-21DUP	MW-102SDUP	DUP	WATER	10/07/2019	30.0	30.0	
K5154-21MS	MW-102SMS	MS	WATER	10/07/2019	30.0	30.0	
K5154-21MSD	MW-102SMSD	MSD	WATER	10/07/2019	30.0	30.0	
K5154-22	MW-102I	SAM	WATER	10/07/2019	30.0	30.0	
K5154-23	MW-102D	SAM	WATER	10/07/2019	30.0	30.0	
K5154-24	MW-101S	SAM	WATER	10/07/2019	30.0	30.0	
K5154-25	MW-101I	SAM	WATER	10/07/2019	30.0	30.0	
K5154-26	MW-101D	SAM	WATER	10/07/2019	30.0	30.0	
PB123712BL	PB123712BL	MB	WATER	10/07/2019	30.0	30.0	
PB123712BS	PB123712BS	LCS	WATER	10/07/2019	30.0	30.0	

Metals

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SAMPLE PREPARATION SUMMARY

Client: TRC Companies, Inc. SDG No.: K5154
Contract: TRCE03 Lab Code: CHEM Method:
Case No.: K5154 SAS No.: K5154

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB123873							
K5154-21	MW-102S	SAM	WATER	10/11/2019	50.0	50.0	
K5154-22	MW-102I	SAM	WATER	10/11/2019	50.0	50.0	
K5154-23	MW-102D	SAM	WATER	10/11/2019	50.0	50.0	
K5154-24	MW-101S	SAM	WATER	10/11/2019	50.0	50.0	
K5154-25	MW-101I	SAM	WATER	10/11/2019	50.0	50.0	
K5154-26	MW-101D	SAM	WATER	10/11/2019	50.0	50.0	
K5157-02DUP	S49-0539DUP	DUP	WATER	10/11/2019	50.0	50.0	
K5157-03	S49-0539MS	MS	WATER	10/11/2019	50.0	50.0	
K5157-04	S49-0539MSD	MSD	WATER	10/11/2019	50.0	50.0	
PB123873BL	PB123873BL	MB	WATER	10/11/2019	50.0	50.0	
PB123873BS	PB123873BS	LCS	WATER	10/11/2019	50.0	50.0	

metals
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ANALYSIS RUN LOG

Client: TRC Companies, Inc.
Contract: TRCE03
Lab code: CHEM **Case no.:** K5154 **Sas no.:** K5154
Sdg no.: K5154
Instrument id number: **Method:**
Run number: LB105464
Start date: 10/03/2019 **End date:** 10/03/2019

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1244	HG
S0.2	S0.2	1	1246	HG
S2.5	S2.5	1	1249	HG
S5	S5	1	1251	HG
S7.5	S7.5	1	1253	HG
S10	S10	1	1255	HG
ICV40	ICV40	1	1301	HG
ICB40	ICB40	1	1303	HG
CCV52	CCV52	1	1306	HG
CCB52	CCB52	1	1308	HG
CRA	CRA	1	1310	HG
CCV53	CCV53	1	1331	HG
CCB53	CCB53	1	1333	HG
CCV54	CCV54	1	1357	HG
CCB54	CCB54	1	1359	HG
CCV55	CCV55	1	1422	HG
CCB55	CCB55	1	1424	HG
PB123618BL	PB123618BL	1	1429	HG
PB123618BS	PB123618BS	1	1431	HG
K5154-02	FB-10012019	1	1444	HG
K5154-03	MW-106S	1	1446	HG
K5154-04	MW-106I	1	1448	HG
K5154-05	MW-106D	1	1450	HG
K5154-06	MW-107	1	1452	HG
K5154-10	MW-103S	1	1454	HG
CCV56	CCV56	1	1457	HG
CCB56	CCB56	1	1459	HG
K5154-11	MW-103I	1	1501	HG
K5154-11DUP	MW-103IDUP	1	1503	HG
K5154-12	MW-103IMS	1	1505	HG
K5154-13	MW-103IMSD	1	1507	HG
K5154-14	MW-103D	1	1509	HG
K5154-15	MW-105S	1	1511	HG
K5154-16	MW-105I	1	1514	HG
K5154-17	MW-105D	1	1516	HG
K5154-18	MW-104I	1	1518	HG
K5154-19	MW-104D	1	1520	HG
CCV57	CCV57	1	1522	HG
CCB57	CCB57	1	1524	HG
CCV58	CCV58	1	1548	HG
CCB58	CCB58	1	1550	HG
K5154-11L	MW-103IL	5	1552	HG
CCV59	CCV59	1	1558	HG

metals

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ANALYSIS RUN LOG

Client: TRC Companies, Inc.Contract: TRCE03Lab code: CHEM Case no.: K5154 Sas no.: K5154Sdg no.: K5154Instrument id number: Method: Run number: LB105464Start date: 10/03/2019 End date: 10/03/2019

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCB59	CCB59	1	1600	HG

A

B

C

D

E

F

G

H

metals
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ANALYSIS RUN LOG

Client: TRC Companies, Inc.
Contract: TRCE03
Lab code: CHEM **Case no.:** K5154 **Sas no.:** K5154
Sdg no.: K5154
Instrument id number: **Method:**
Run number: LB105539
Start date: 10/07/2019 **End date:** 10/07/2019

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1250	HG
S0.2	S0.2	1	1252	HG
S2.5	S2.5	1	1254	HG
S5	S5	1	1256	HG
S7.5	S7.5	1	1258	HG
S10	S10	1	1300	HG
ICV42	ICV42	1	1306	HG
ICB42	ICB42	1	1308	HG
CCV64	CCV64	1	1310	HG
CCB64	CCB64	1	1312	HG
CRA	CRA	1	1314	HG
CCV65	CCV65	1	1335	HG
CCB65	CCB65	1	1337	HG
CCV66	CCV66	1	1401	HG
CCB66	CCB66	1	1403	HG
PB123712BL	PB123712BL	1	1417	HG
PB123712BS	PB123712BS	1	1419	HG
K5154-21	MW-102S	1	1421	HG
K5154-21DUP	MW-102SDUP	1	1423	HG
K5154-21MS	MW-102SMS	1	1425	HG
CCV67	CCV67	1	1427	HG
CCB67	CCB67	1	1430	HG
K5154-21MSD	MW-102SMSD	1	1432	HG
K5154-22	MW-102I	1	1434	HG
K5154-23	MW-102D	1	1436	HG
K5154-24	MW-101S	1	1438	HG
K5154-25	MW-101I	1	1440	HG
K5154-26	MW-101D	1	1442	HG
CCV68	CCV68	1	1508	HG
CCB68	CCB68	1	1510	HG
K5154-21L	MW-102SL	5	1525	HG
CCV69	CCV69	1	1529	HG
CCB69	CCB69	1	1532	HG

metals
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ANALYSIS RUN LOG

Client: TRC Companies, Inc. **Contract:** TRCE03

Lab code: CHEM **Case no.:** K5154 **Sas no.:** K5154 **Sdg no.:** K5154

Instrument id number: **Method:** **Run number:** LB105633

Start date: 10/10/2019 **End date:** 10/10/2019

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1502	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1510	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1514	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1518	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1522	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S6	S6	1	1525	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S7	S7	1	1529	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S8	S8	1	1533	Al,Ca,Fe,K,Mg,Na
ICV01	ICV01	1	1540	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1553	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1601	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1614	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1618	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV35	CCV35	1	1630	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB35	CCB35	1	1639	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI	CRI	1	1643	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB123625BL	PB123625BL	1	1646	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB123625BS	PB123625BS	1	1650	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV36	CCV36	1	1725	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB36	CCB36	1	1745	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5154-03	MW-106S	1	1753	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5154-04	MW-106I	1	1757	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5154-05	MW-106D	1	1801	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5154-06	MW-107	1	1804	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5154-10	MW-103S	1	1808	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5154-11	MW-103I	1	1811	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5154-11DUP	MW-103IDUP	1	1815	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5154-11L	MW-103IL	5	1819	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5154-12	MW-103IMS	1	1822	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV37	CCV37	1	1833	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB37	CCB37	1	1851	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5154-13	MW-103IMSD	1	1855	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5154-11A	MW-103IA	1	1858	Ag
K5154-14	MW-103D	1	1902	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5154-15	MW-105S	1	1906	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5154-16	MW-105I	1	1909	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5154-17	MW-105D	1	1913	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5154-18	MW-104I	1	1916	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5154-19	MW-104D	1	1920	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV38	CCV38	1	1937	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB38	CCB38	1	1954	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5154-05	MW-106D	10	1958	Na
K5154-06	MW-107	10	2001	Na

metals
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ANALYSIS RUN LOG

Client: TRC Companies, Inc.
Contract: TRCE03
Lab code: CHEM **Case no.:** K5154 **Sas no.:** K5154
Sdg no.: K5154
Instrument id number: **Method:**
Run number: LB105633
Start date: 10/10/2019 **End date:** 10/10/2019

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
K5154-19	MW-104D	5	2005	Mg,Mn,Pb,Tl
K5154-02	FB-10012019	1	2009	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5154-19	MW-104D	50	2012	Na
CCV39	CCV39	1	2016	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB39	CCB39	1	2019	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

metals
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ANALYSIS RUN LOG

Client: TRC Companies, Inc. **Contract:** TRCE03

Lab code: CHEM **Case no.:** K5154 **Sas no.:** K5154 **Sdg no.:** K5154

Instrument id number: **Method:** **Run number:** LB105691

Start date: 10/14/2019 **End date:** 10/14/2019

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1029	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1037	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1041	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1045	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1049	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S6	S6	1	1053	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S7	S7	1	1056	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S8	S8	1	1100	Al,Ca,Fe,K,Mg,Na
ICV01	ICV01	1	1151	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1218	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1222	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1225	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1229	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV51	CCV51	1	1233	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB51	CCB51	1	1237	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI	CRI	1	1241	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV52	CCV52	1	1317	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB52	CCB52	1	1320	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB123873BL	PB123873BL	1	1350	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB123873BS	PB123873BS	1	1353	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5154-21	MW-102S	1	1357	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5154-22	MW-102I	1	1401	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV53	CCV53	1	1418	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB53	CCB53	1	1423	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5154-23	MW-102D	1	1426	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5154-24	MW-101S	1	1430	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5154-25	MW-101I	1	1433	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5154-26	MW-101D	1	1437	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5157-02DUP	S49-0539DUP	1	1448	Ag,Ba,Be,Ca,Cd,Pb,Sb,Se,Tl
K5157-02L	S49-0539L	5	1451	Ag,Ba,Be,Ca,Cd,Pb,Sb,Se,Tl
K5157-03	S49-0539MS	1	1455	Ag,Ba,Be,Ca,Cd,Pb,Sb,Se,Tl
K5157-04	S49-0539MSD	1	1458	Ag,Ba,Be,Ca,Cd,Pb,Sb,Se,Tl
CCV54	CCV54	1	1508	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB54	CCB54	1	1514	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV55	CCV55	1	1603	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB55	CCB55	1	1608	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV56	CCV56	1	1726	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB56	CCB56	1	1733	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV57	CCV57	1	1816	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB57	CCB57	1	1819	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV58	CCV58	1	1905	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB58	CCB58	1	1910	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV59	CCV59	1	2018	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

metals

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ANALYSIS RUN LOG

Client: TRC Companies, Inc.

Contract: TRCE03

Lab code: CHEM

Case no.: K5154

Sas no.: K5154

Sdg no.: K5154

Instrument id number:

Method:

Run number: LB105691

Start date: 10/14/2019

End date: 10/14/2019

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCB59	CCB59	1	2022	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV60	CCV60	1	2109	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB60	CCB60	1	2113	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV61	CCV61	1	2201	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB61	CCB61	1	2205	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV62	CCV62	1	2245	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB62	CCB62	1	2248	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV63	CCV63	1	2314	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB63	CCB63	1	2317	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

metals
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ANALYSIS RUN LOG

Client: TRC Companies, Inc. **Contract:** TRCE03

Lab code: CHEM **Case no.:** K5154 **Sas no.:** K5154 **Sdg no.:** K5154

Instrument id number: **Method:** **Run number:** LB105753

Start date: 10/16/2019 **End date:** 10/16/2019

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1212	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1216	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1220	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1224	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1228	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1232	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S6	S6	1	1235	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S7	S7	1	1239	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S8	S8	1	1243	Al,Ca,Fe,K,Mg,Na
ICV01	ICV01	1	1318	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1323	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1327	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1330	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV70	CCV70	1	1335	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLCCV	LLCCV	1	1344	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB70	CCB70	1	1347	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI	CRI	1	1351	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5154-04	MW-106I	25	1354	Na
K5154-10	MW-103S	25	1358	Na
CCV71	CCV71	1	1423	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB71	CCB71	1	1427	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

metals
- 14 -
ANALYSIS RUN LOG

Client: TRC Companies, Inc. **Contract:** TRCE03

Lab code: CHEM **Case no.:** K5154 **Sas no.:** K5154 **Sdg no.:** K5154

Instrument id number: **Method:** **Run number:** LB105778

Start date: 10/17/2019 **End date:** 10/17/2019

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1700	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1709	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1713	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1717	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1720	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S6	S6	1	1724	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S7	S7	1	1728	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S8	S8	1	1732	Al,Ca,Fe,K,Mg,Na
ICV01	ICV01	1	1754	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1758	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1801	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1805	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV76	CCV76	1	1809	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLCCV	LLCCV	1	1827	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB76	CCB76	1	1831	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI	CRI	1	1834	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
K5157-02DUP	S49-0539DUP	5	1841	Al,As,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,V,Zn
K5157-02L	S49-0539L	25	1845	Al,As,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,V,Zn
K5157-03	S49-0539MS	5	1849	Al,As,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,V,Zn
K5157-04	S49-0539MSD	5	1852	Al,As,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,V,Zn
CCV77	CCV77	1	1905	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB77	CCB77	1	1909	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn



284 Sheffield Street, Mountainside, New Jersey - 07092

Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID: K5154	OrderDate: 10/1/2019 2:37:56 PM
Client: TRC Companies, Inc.	Project: NYCDPR Bush Terminal LandFill Piers 1-4
Contact: Jim Peronto	Location: M12

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
K5154-02	FB-10012019	WATER	Anions Group1	300.0	10/01/19 08:30		10/02/19 17:16	10/01/19
K5154-03	MW-106S	WATER	Anions Group1	300.0	10/01/19 10:50		10/02/19 13:43	10/01/19
K5154-03DL	MW-106SDL	WATER	Anions Group1	300.0	10/01/19 10:50		10/02/19 19:48	10/01/19
K5154-04	MW-106I	WATER	Anions Group1	300.0	10/01/19 11:45		10/02/19 14:13	10/01/19
K5154-04DL	MW-106IDL	WATER	Anions Group1	300.0	10/01/19 11:45		10/02/19 20:18	10/01/19
K5154-05	MW-106D	WATER	Anions Group1	300.0	10/01/19 12:50		10/02/19 14:44	10/01/19
K5154-05DL	MW-106DDL	WATER	Anions Group1	300.0	10/01/19 12:50		10/02/19 20:49	10/01/19
K5154-06	MW-107	WATER			10/01/19 13:50			10/01/19

LAB CHRONICLE

			Anions Group1	300.0		10/02/19 15:14	
K5154-06DL	MW-107DL	WATER			10/01/19 13:50		10/01/19
			Anions Group1	300.0		10/02/19 21:19	
K5154-10	MW-103S	WATER			10/02/19 09:15		10/02/19
			Anions Group1	300.0		10/03/19 11:22	
K5154-10DL	MW-103SDL	WATER			10/02/19 09:15		10/02/19
			Anions Group1	300.0		10/03/19 22:01	
K5154-11	MW-103I	WATER			10/02/19 10:25		10/02/19
			Anions Group1	300.0		10/03/19 11:52	
K5154-11DL	MW-103IDL	WATER			10/02/19 10:25		10/02/19
			Anions Group1	300.0		10/04/19 00:33	
K5154-14	MW-103D	WATER			10/02/19 11:40		10/02/19
			Anions Group1	300.0		10/03/19 12:23	
K5154-14DL	MW-103DDL	WATER			10/02/19 11:40		10/02/19
			Anions Group1	300.0		10/04/19 01:04	
K5154-15	MW-105S	WATER			10/02/19 10:27		10/02/19
			Anions Group1	300.0		10/03/19 12:53	
K5154-15DL	MW-105SDL	WATER			10/02/19 10:27		10/02/19
			Anions Group1	300.0		10/04/19 01:34	

LAB CHRONICLE

K5154-16	MW-105I	WATER			10/02/19 10:58		10/02/19
			Anions Group1	300.0		10/03/19 13:24	
K5154-16DL	MW-105IDL	WATER			10/02/19 10:58		10/02/19
			Anions Group1	300.0		10/04/19 02:05	
K5154-17	MW-105D	WATER			10/02/19 11:40		10/02/19
			Anions Group1	300.0		10/03/19 13:54	
K5154-17DL	MW-105DDL	WATER			10/02/19 11:40		10/02/19
			Anions Group1	300.0		10/04/19 02:35	
K5154-18	MW-104I	WATER			10/02/19 14:25		10/02/19
			Anions Group1	300.0		10/03/19 14:24	
K5154-18DL	MW-104IDL	WATER			10/02/19 14:25		10/02/19
			Anions Group1	300.0		10/04/19 03:05	
K5154-19	MW-104D	WATER			10/02/19 14:30		10/02/19
			Anions Group1	300.0		10/03/19 14:55	
K5154-19DL	MW-104DDL	WATER			10/02/19 14:30		10/02/19
			Anions Group1	300.0		10/04/19 03:36	
K5154-21	MW-102S	WATER			10/03/19 08:45		10/03/19
			Anions Group1	300.0		10/04/19 10:52	

LAB CHRONICLE

K5154-22	MW-102I	WATER			10/03/19 09:05		10/03/19
			Anions Group1	300.0		10/04/19 11:23	
K5154-22DL	MW-102IDL	WATER			10/03/19 09:05		10/03/19
			Anions Group1	300.0		10/04/19 23:33	
K5154-23	MW-102D	WATER			10/03/19 10:25		10/03/19
			Anions Group1	300.0		10/04/19 11:53	
K5154-23DL	MW-102DDL	WATER			10/03/19 10:25		10/03/19
			Anions Group1	300.0		10/05/19 00:03	
K5154-24	MW-101S	WATER			10/03/19 11:00		10/03/19
			Anions Group1	300.0		10/04/19 12:23	
K5154-24DL	MW-101SDL	WATER			10/03/19 11:00		10/03/19
			Anions Group1	300.0		10/05/19 00:34	
K5154-25	MW-101I	WATER			10/03/19 11:15		10/03/19
			Anions Group1	300.0		10/04/19 12:54	
K5154-25DL	MW-101IDL	WATER			10/03/19 11:15		10/03/19
			Anions Group1	300.0		10/05/19 01:04	
K5154-26	MW-101D	WATER			10/03/19 12:25		10/03/19
			Anions Group1	300.0		10/04/19 13:24	
K5154-26DL	MW-101DDL	WATER			10/03/19 12:25		10/03/19



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LAB CHRONICLE

Anions Group1	300.0	10/05/19 01:34

SAMPLE DATA

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19 08:30
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	FB-10012019	SDG No.:	K5154
Lab Sample ID:	K5154-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	0.60	U	1	0.075	0.60	mg/L		10/02/19 17:16	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N = Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19 10:50
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-106S	SDG No.:	K5154
Lab Sample ID:	K5154-03	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	858	OR	1	0.075	0.60	mg/L		10/02/19 13:43	300.0

Comments:

U = Not Detected

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LOD = Limit of Detection

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J = Estimated Value

B = Analyte Found in Associated Method Blank

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N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19 10:50
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-106SDL	SDG No.:	K5154
Lab Sample ID:	K5154-03DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	573	D	200	15.0	120	mg/L		10/02/19 19:48	300.0

Comments:

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LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19 11:45
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-106I	SDG No.:	K5154
Lab Sample ID:	K5154-04	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	999	OR	1	0.075	0.60	mg/L		10/02/19 14:13	300.0

Comments:

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MDL = Method Detection Limit

LOD = Limit of Detection

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J = Estimated Value

B = Analyte Found in Associated Method Blank

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N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19 11:45
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-106IDL	SDG No.:	K5154
Lab Sample ID:	K5154-04DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	665	D	200	15.0	120	mg/L		10/02/19 20:18	300.0

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

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OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19 12:50
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-106D	SDG No.:	K5154
Lab Sample ID:	K5154-05	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	4670	OR	1	0.075	0.60	mg/L		10/02/19 14:44	300.0

Comments:

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LOD = Limit of Detection

D = Dilution

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J = Estimated Value

B = Analyte Found in Associated Method Blank

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E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19 12:50
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-106DDL	SDG No.:	K5154
Lab Sample ID:	K5154-05DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	3120	D	500	37.4	300	mg/L		10/02/19 20:49	300.0

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

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J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19 13:50
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-107	SDG No.:	K5154
Lab Sample ID:	K5154-06	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	4680	OR	1	0.075	0.60	mg/L		10/02/19 15:14	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/01/19 13:50
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/01/19
Client Sample ID:	MW-107DL	SDG No.:	K5154
Lab Sample ID:	K5154-06DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	3000	D	500	37.4	300	mg/L		10/02/19 21:19	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19 09:15
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103S	SDG No.:	K5154
Lab Sample ID:	K5154-10	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	4480	OR	1	0.075	0.60	mg/L		10/03/19 11:22	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19 09:15
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103SDL	SDG No.:	K5154
Lab Sample ID:	K5154-10DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	3100	D	500	37.4	300	mg/L		10/03/19 22:01	300.0

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19 10:25
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-1031	SDG No.:	K5154
Lab Sample ID:	K5154-11	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	672	OR	1	0.075	0.60	mg/L		10/03/19 11:52	300.0

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19 10:25
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103IDL	SDG No.:	K5154
Lab Sample ID:	K5154-11DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	458	D	100	7.50	60.0	mg/L		10/04/19 00:33	300.0

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19 11:40
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103D	SDG No.:	K5154
Lab Sample ID:	K5154-14	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	16.5	OR	1	0.075	0.60	mg/L		10/03/19 12:23	300.0

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19 11:40
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-103DDL	SDG No.:	K5154
Lab Sample ID:	K5154-14DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	15.7	D	5	0.37	3.00	mg/L		10/04/19 01:04	300.0

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

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H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19 10:27
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-105S	SDG No.:	K5154
Lab Sample ID:	K5154-15	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	821	OR	1	0.075	0.60	mg/L		10/03/19 12:53	300.0

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19 10:27
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-105SDL	SDG No.:	K5154
Lab Sample ID:	K5154-15DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	565	D	200	15.0	120	mg/L		10/04/19 01:34	300.0

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19 10:58
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-1051	SDG No.:	K5154
Lab Sample ID:	K5154-16	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	642	OR	1	0.075	0.60	mg/L		10/03/19 13:24	300.0

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19 10:58
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-105IDL	SDG No.:	K5154
Lab Sample ID:	K5154-16DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	443	D	100	7.50	60.0	mg/L		10/04/19 02:05	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N = Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19 11:40
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-105D	SDG No.:	K5154
Lab Sample ID:	K5154-17	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	16.9	OR	1	0.075	0.60	mg/L		10/03/19 13:54	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19 11:40
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-105DDL	SDG No.:	K5154
Lab Sample ID:	K5154-17DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	15.6	D	5	0.37	3.00	mg/L		10/04/19 02:35	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19 14:25
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-104I	SDG No.:	K5154
Lab Sample ID:	K5154-18	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	385	OR	1	0.075	0.60	mg/L		10/03/19 14:24	300.0

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19 14:25
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-104IDL	SDG No.:	K5154
Lab Sample ID:	K5154-18DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	269	D	50	3.70	30.0	mg/L		10/04/19 03:05	300.0

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19 14:30
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-104D	SDG No.:	K5154
Lab Sample ID:	K5154-19	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	14100	OR	1	0.075	0.60	mg/L		10/03/19 14:55	300.0

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/02/19 14:30
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/02/19
Client Sample ID:	MW-104DDL	SDG No.:	K5154
Lab Sample ID:	K5154-19DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	9370	D	2000	150	1200	mg/L		10/04/19 03:36	300.0

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19 08:45
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-102S	SDG No.:	K5154
Lab Sample ID:	K5154-21	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	5.60		1	0.075	0.60	mg/L		10/04/19 10:52	300.0

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19 09:05
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-102I	SDG No.:	K5154
Lab Sample ID:	K5154-22	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	302	OR	1	0.075	0.60	mg/L		10/04/19 11:23	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19 09:05
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-102IDL	SDG No.:	K5154
Lab Sample ID:	K5154-22DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	207	D	50	3.70	30.0	mg/L		10/04/19 23:33	300.0

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

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H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19 10:25
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-102D	SDG No.:	K5154
Lab Sample ID:	K5154-23	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	533	OR	1	0.075	0.60	mg/L		10/04/19 11:53	300.0

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19 10:25
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-102DDL	SDG No.:	K5154
Lab Sample ID:	K5154-23DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	365	D	100	7.50	60.0	mg/L		10/05/19 00:03	300.0

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

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H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19 11:00
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-101S	SDG No.:	K5154
Lab Sample ID:	K5154-24	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	286	OR	1	0.075	0.60	mg/L		10/04/19 12:23	300.0

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19 11:00
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-101SDL	SDG No.:	K5154
Lab Sample ID:	K5154-24DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	197	D	50	3.70	30.0	mg/L		10/05/19 00:34	300.0

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

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H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19 11:15
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-1011	SDG No.:	K5154
Lab Sample ID:	K5154-25	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	428	OR	1	0.075	0.60	mg/L		10/04/19 12:54	300.0

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19 11:15
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-101IDL	SDG No.:	K5154
Lab Sample ID:	K5154-25DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	290	D	100	7.50	60.0	mg/L		10/05/19 01:04	300.0

Comments:

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MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
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N =Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19 12:25
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-101D	SDG No.:	K5154
Lab Sample ID:	K5154-26	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	625	OR	1	0.075	0.60	mg/L		10/04/19 13:24	300.0

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	10/03/19 12:25
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	10/03/19
Client Sample ID:	MW-101DDL	SDG No.:	K5154
Lab Sample ID:	K5154-26DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	438	D	100	7.50	60.0	mg/L		10/05/19 01:34	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
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OR = Over Range
N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

Initial and Continuing Calibration Verification

Client: TRC Companies, Inc.

SDG No.: K5154

Project: NYCDPR Bush Terminal LandFill Piers 1-4

RunNo.: LB105422

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	9.5	10	95	90-110	09/11/2019
Chloride	mg/L	2.9	3	97	90-110	09/11/2019
Fluoride	mg/L	2	2	100	90-110	09/11/2019
Nitrite	mg/L	2.9	3	97	90-110	09/11/2019
Nitrate	mg/L	2.4	2.5	96	90-110	09/11/2019
Sulfate	mg/L	14.6	15	97	90-110	09/11/2019
Orthophosphate as P	mg/L	5.2	5	104	90-110	09/11/2019
Sample ID: CCV1						
Bromide	mg/L	9.6	10	96	90-110	10/02/2019
Chloride	mg/L	3	3	100	90-110	10/02/2019
Fluoride	mg/L	1.9	2	95	90-110	10/02/2019
Nitrite	mg/L	2.9	3	97	90-110	10/02/2019
Nitrate	mg/L	2.4	2.5	96	90-110	10/02/2019
Sulfate	mg/L	14.4	15	96	90-110	10/02/2019
Orthophosphate as P	mg/L	4.8	5	96	90-110	10/02/2019
Sample ID: CCV2						
Bromide	mg/L	9.6	10	96	90-110	10/02/2019
Chloride	mg/L	3.1	3	103	90-110	10/02/2019
Fluoride	mg/L	1.7	2	85	90-110	10/02/2019
Nitrite	mg/L	2.9	3	97	90-110	10/02/2019
Nitrate	mg/L	2.4	2.5	96	90-110	10/02/2019
Sulfate	mg/L	14.4	15	96	90-110	10/02/2019
Orthophosphate as P	mg/L	4.8	5	96	90-110	10/02/2019
Sample ID: CCV3						
Bromide	mg/L	9.7	10	97	90-110	10/02/2019
Chloride	mg/L	3	3	100	90-110	10/02/2019
Fluoride	mg/L	2	2	100	90-110	10/02/2019
Nitrite	mg/L	3	3	100	90-110	10/02/2019
Nitrate	mg/L	2.4	2.5	96	90-110	10/02/2019
Sulfate	mg/L	14.5	15	97	90-110	10/02/2019
Orthophosphate as P	mg/L	4.8	5	96	90-110	10/02/2019

Initial and Continuing Calibration Verification

Client: TRC Companies, Inc.

SDG No.: K5154

Project: NYCDPR Bush Terminal LandFill Piers 1-4

RunNo.: LB105455

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	9.5	10	95	90-110	09/11/2019
Chloride	mg/L	2.9	3	97	90-110	09/11/2019
Fluoride	mg/L	2	2	100	90-110	09/11/2019
Nitrite	mg/L	2.9	3	97	90-110	09/11/2019
Nitrate	mg/L	2.4	2.5	96	90-110	09/11/2019
Sulfate	mg/L	14.6	15	97	90-110	09/11/2019
Orthophosphate as P	mg/L	5.2	5	104	90-110	09/11/2019
Sample ID: CCV1						
Bromide	mg/L	9.7	10	97	90-110	10/03/2019
Chloride	mg/L	3	3	100	90-110	10/03/2019
Fluoride	mg/L	2	2	100	90-110	10/03/2019
Nitrite	mg/L	2.9	3	97	90-110	10/03/2019
Nitrate	mg/L	2.5	2.5	100	90-110	10/03/2019
Sulfate	mg/L	14.5	15	97	90-110	10/03/2019
Orthophosphate as P	mg/L	5	5	100	90-110	10/03/2019
Sample ID: CCV2						
Bromide	mg/L	9.6	10	96	90-110	10/03/2019
Chloride	mg/L	3	3	100	90-110	10/03/2019
Fluoride	mg/L	1.9	2	95	90-110	10/03/2019
Nitrite	mg/L	2.9	3	97	90-110	10/03/2019
Nitrate	mg/L	2.4	2.5	96	90-110	10/03/2019
Sulfate	mg/L	14.1	15	94	90-110	10/03/2019
Orthophosphate as P	mg/L	5.1	5	102	90-110	10/03/2019
Sample ID: CCV3						
Bromide	mg/L	9.5	10	95	90-110	10/03/2019
Chloride	mg/L	3	3	100	90-110	10/03/2019
Fluoride	mg/L	1.9	2	95	90-110	10/03/2019
Nitrite	mg/L	2.9	3	97	90-110	10/03/2019
Nitrate	mg/L	2.4	2.5	96	90-110	10/03/2019
Sulfate	mg/L	14	15	93	90-110	10/03/2019
Orthophosphate as P	mg/L	5	5	100	90-110	10/03/2019
Sample ID: CCV4						
Bromide	mg/L	9.9	10	99	90-110	10/04/2019
Chloride	mg/L	3	3	100	90-110	10/04/2019
Fluoride	mg/L	1.7	2	85	90-110	10/04/2019
Nitrite	mg/L	3	3	100	90-110	10/04/2019
Nitrate	mg/L	2.5	2.5	100	90-110	10/04/2019
Sulfate	mg/L	14.4	15	96	90-110	10/04/2019
Orthophosphate as P	mg/L	5.1	5	102	90-110	10/04/2019
Sample ID: CCV5						
Bromide	mg/L	9.7	10	97	90-110	10/04/2019
Chloride	mg/L	3	3	100	90-110	10/04/2019
Fluoride	mg/L	1.7	2	85	90-110	10/04/2019

Initial and Continuing Calibration Verification

Client: TRC Companies, Inc.

SDG No.: K5154

Project: NYCDPR Bush Terminal LandFill Piers 1-4

RunNo.: LB105455

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Nitrite	mg/L	3	3	100	90-110	10/04/2019
Nitrate	mg/L	2.4	2.5	96	90-110	10/04/2019
Sulfate	mg/L	14.3	15	95	90-110	10/04/2019
Orthophosphate as P	mg/L	4.6	5	92	90-110	10/04/2019
Sample ID: CCV6						
Bromide	mg/L	9.7	10	97	90-110	10/04/2019
Chloride	mg/L	3	3	100	90-110	10/04/2019
Fluoride	mg/L	2.3	2	115	90-110	10/04/2019
Nitrite	mg/L	2.9	3	97	90-110	10/04/2019
Nitrate	mg/L	2.4	2.5	96	90-110	10/04/2019
Sulfate	mg/L	14.7	15	98	90-110	10/04/2019
Orthophosphate as P	mg/L	5.2	5	104	90-110	10/04/2019
Sample ID: CCV7						
Bromide	mg/L	9.7	10	97	90-110	10/04/2019
Chloride	mg/L	3	3	100	90-110	10/04/2019
Fluoride	mg/L	1.8	2	90	90-110	10/04/2019
Nitrite	mg/L	3	3	100	90-110	10/04/2019
Nitrate	mg/L	2.4	2.5	96	90-110	10/04/2019
Sulfate	mg/L	14.7	15	98	90-110	10/04/2019
Orthophosphate as P	mg/L	5.2	5	104	90-110	10/04/2019
Sample ID: CCV8						
Bromide	mg/L	9.7	10	97	90-110	10/05/2019
Chloride	mg/L	3	3	100	90-110	10/05/2019
Fluoride	mg/L	1.8	2	90	90-110	10/05/2019
Nitrite	mg/L	3.1	3	103	90-110	10/05/2019
Nitrate	mg/L	2.4	2.5	96	90-110	10/05/2019
Sulfate	mg/L	14.8	15	99	90-110	10/05/2019
Orthophosphate as P	mg/L	5	5	100	90-110	10/05/2019

Initial and Continuing Calibration Blank Summary

Client: TRC Companies, Inc.

SDG No.: K5154

Project: NYCDPR Bush Terminal LandFill Piers 1-4

RunNo.: LB105422

Analyte	Units	Result	Acceptance Limits	MDL	RDL	Analysis Date
Sample ID: ICB1						
Bromide	mg/L	< 1	+/-1	0.28	1	09/11/2019
Chloride	mg/L	< 0.6	+/-0.6	0.075	0.6	09/11/2019
Fluoride	mg/L	< 0.4	+/-0.4	0.15	0.4	09/11/2019
Nitrite	mg/L	< 0.3	+/-0.3	0.11	0.3	09/11/2019
Nitrate	mg/L	< 0.5	+/-0.5	0.099	0.5	09/11/2019
Sulfate	mg/L	< 3	+/-3	0.56	3	09/11/2019
Orthophosphate as P	mg/L	< 0.5	+/-0.5	0.14	0.5	09/11/2019
Sample ID: CCB1						
Bromide	mg/L	< 1	+/-1	0.28	1	10/02/2019
Chloride	mg/L	< 0.6	+/-0.6	0.075	0.6	10/02/2019
Fluoride	mg/L	< 0.4	+/-0.4	0.15	0.4	10/02/2019
Nitrite	mg/L	< 0.3	+/-0.3	0.11	0.3	10/02/2019
Nitrate	mg/L	< 0.5	+/-0.5	0.099	0.5	10/02/2019
Sulfate	mg/L	< 3	+/-3	0.56	3	10/02/2019
Orthophosphate as P	mg/L	< 0.5	+/-0.5	0.14	0.5	10/02/2019
Sample ID: CCB2						
Bromide	mg/L	< 1	+/-1	0.28	1	10/02/2019
Chloride	mg/L	< 0.6	+/-0.6	0.075	0.6	10/02/2019
Fluoride	mg/L	< 0.4	+/-0.4	0.15	0.4	10/02/2019
Nitrite	mg/L	< 0.3	+/-0.3	0.11	0.3	10/02/2019
Nitrate	mg/L	< 0.5	+/-0.5	0.099	0.5	10/02/2019
Sulfate	mg/L	< 3	+/-3	0.56	3	10/02/2019
Orthophosphate as P	mg/L	< 0.5	+/-0.5	0.14	0.5	10/02/2019
Sample ID: CCB3						
Bromide	mg/L	< 1	+/-1	0.28	1	10/02/2019
Chloride	mg/L	< 0.6	+/-0.6	0.075	0.6	10/02/2019
Fluoride	mg/L	< 0.4	+/-0.4	0.15	0.4	10/02/2019
Nitrite	mg/L	< 0.3	+/-0.3	0.11	0.3	10/02/2019
Nitrate	mg/L	< 0.5	+/-0.5	0.099	0.5	10/02/2019
Sulfate	mg/L	< 3	+/-3	0.56	3	10/02/2019
Orthophosphate as P	mg/L	< 0.5	+/-0.5	0.14	0.5	10/02/2019

Initial and Continuing Calibration Blank Summary

Client: TRC Companies, Inc.

SDG No.: K5154

Project: NYCDPR Bush Terminal LandFill Piers 1-4

RunNo.: LB105455

Analyte	Units	Result	Acceptance Limits	MDL	RDL	Analysis Date
Sample ID: ICB1						
Bromide	mg/L	< 1	+/-1	0.28	1	09/11/2019
Chloride	mg/L	< 0.6	+/-0.6	0.075	0.6	09/11/2019
Fluoride	mg/L	< 0.4	+/-0.4	0.15	0.4	09/11/2019
Nitrite	mg/L	< 0.3	+/-0.3	0.11	0.3	09/11/2019
Nitrate	mg/L	< 0.5	+/-0.5	0.099	0.5	09/11/2019
Sulfate	mg/L	< 3	+/-3	0.56	3	09/11/2019
Orthophosphate as P	mg/L	< 0.5	+/-0.5	0.14	0.5	09/11/2019
Sample ID: CCB1						
Bromide	mg/L	< 1	+/-1	0.28	1	10/03/2019
Chloride	mg/L	< 0.6	+/-0.6	0.075	0.6	10/03/2019
Fluoride	mg/L	< 0.4	+/-0.4	0.15	0.4	10/03/2019
Nitrite	mg/L	< 0.3	+/-0.3	0.11	0.3	10/03/2019
Nitrate	mg/L	< 0.5	+/-0.5	0.099	0.5	10/03/2019
Sulfate	mg/L	< 3	+/-3	0.56	3	10/03/2019
Orthophosphate as P	mg/L	< 0.5	+/-0.5	0.14	0.5	10/03/2019
Sample ID: CCB2						
Bromide	mg/L	< 1	+/-1	0.28	1	10/03/2019
Chloride	mg/L	< 0.6	+/-0.6	0.075	0.6	10/03/2019
Fluoride	mg/L	< 0.4	+/-0.4	0.15	0.4	10/03/2019
Nitrite	mg/L	< 0.3	+/-0.3	0.11	0.3	10/03/2019
Nitrate	mg/L	< 0.5	+/-0.5	0.099	0.5	10/03/2019
Sulfate	mg/L	< 3	+/-3	0.56	3	10/03/2019
Orthophosphate as P	mg/L	< 0.5	+/-0.5	0.14	0.5	10/03/2019
Sample ID: CCB3						
Bromide	mg/L	< 1	+/-1	0.28	1	10/03/2019
Chloride	mg/L	< 0.6	+/-0.6	0.075	0.6	10/03/2019
Fluoride	mg/L	< 0.4	+/-0.4	0.15	0.4	10/03/2019
Nitrite	mg/L	< 0.3	+/-0.3	0.11	0.3	10/03/2019
Nitrate	mg/L	< 0.5	+/-0.5	0.099	0.5	10/03/2019
Sulfate	mg/L	< 3	+/-3	0.56	3	10/03/2019
Orthophosphate as P	mg/L	< 0.5	+/-0.5	0.14	0.5	10/03/2019
Sample ID: CCB4						
Bromide	mg/L	< 1	+/-1	0.28	1	10/04/2019
Chloride	mg/L	< 0.6	+/-0.6	0.075	0.6	10/04/2019
Fluoride	mg/L	< 0.4	+/-0.4	0.15	0.4	10/04/2019
Nitrite	mg/L	< 0.3	+/-0.3	0.11	0.3	10/04/2019
Nitrate	mg/L	< 0.5	+/-0.5	0.099	0.5	10/04/2019
Sulfate	mg/L	< 3	+/-3	0.56	3	10/04/2019
Orthophosphate as P	mg/L	< 0.5	+/-0.5	0.14	0.5	10/04/2019
Sample ID: CCB5						
Bromide	mg/L	< 1	+/-1	0.28	1	10/04/2019
Chloride	mg/L	< 0.6	+/-0.6	0.075	0.6	10/04/2019
Fluoride	mg/L	< 0.4	+/-0.4	0.15	0.4	10/04/2019
Nitrite	mg/L	< 0.3	+/-0.3	0.11	0.3	10/04/2019
Nitrate	mg/L	< 0.5	+/-0.5	0.099	0.5	10/04/2019
Sulfate	mg/L	< 3	+/-3	0.56	3	10/04/2019
Orthophosphate as P	mg/L	< 0.5	+/-0.5	0.14	0.5	10/04/2019
Sample ID: CCB6						

Initial and Continuing Calibration Blank Summary

Client: TRC Companies, Inc.

SDG No.: K5154

Project: NYCDPR Bush Terminal LandFill Piers 1-4

RunNo.: LB105455

Analyte	Units	Result	Acceptance Limits	MDL	RDL	Analysis Date
Bromide	mg/L	< 1	+/-1	0.28	1	10/04/2019
Chloride	mg/L	< 0.6	+/-0.6	0.075	0.6	10/04/2019
Fluoride	mg/L	< 0.4	+/-0.4	0.15	0.4	10/04/2019
Nitrite	mg/L	< 0.3	+/-0.3	0.11	0.3	10/04/2019
Nitrate	mg/L	< 0.5	+/-0.5	0.099	0.5	10/04/2019
Sulfate	mg/L	< 3	+/-3	0.56	3	10/04/2019
Orthophosphate as P	mg/L	< 0.5	+/-0.5	0.14	0.5	10/04/2019
Sample ID: CCB7						
Bromide	mg/L	< 1	+/-1	0.28	1	10/04/2019
Chloride	mg/L	< 0.6	+/-0.6	0.075	0.6	10/04/2019
Fluoride	mg/L	< 0.4	+/-0.4	0.15	0.4	10/04/2019
Nitrite	mg/L	< 0.3	+/-0.3	0.11	0.3	10/04/2019
Nitrate	mg/L	< 0.5	+/-0.5	0.099	0.5	10/04/2019
Sulfate	mg/L	< 3	+/-3	0.56	3	10/04/2019
Orthophosphate as P	mg/L	< 0.5	+/-0.5	0.14	0.5	10/04/2019
Sample ID: CCB8						
Bromide	mg/L	< 1	+/-1	0.28	1	10/05/2019
Chloride	mg/L	< 0.6	+/-0.6	0.075	0.6	10/05/2019
Fluoride	mg/L	< 0.4	+/-0.4	0.15	0.4	10/05/2019
Nitrite	mg/L	< 0.3	+/-0.3	0.11	0.3	10/05/2019
Nitrate	mg/L	< 0.5	+/-0.5	0.099	0.5	10/05/2019
Sulfate	mg/L	< 3	+/-3	0.56	3	10/05/2019
Orthophosphate as P	mg/L	< 0.5	+/-0.5	0.14	0.5	10/05/2019

Preparation Blank Summary

Client: TRC Companies, Inc.

SDG No.: K5154

Project: NYCDPR Bush Terminal LandFill Piers 1-4

Analyte	Units	Result	Acceptance Limits	MDL	RDL	Analysis Date
Sample ID: LB105422BLW						
Bromide	mg/L	< 1	+/-1	0.28	1	10/02/2019
Chloride	mg/L	< 0.6	+/-0.6	0.075	0.6	10/02/2019
Fluoride	mg/L	< 0.4	+/-0.4	0.15	0.4	10/02/2019
Nitrite	mg/L	< 0.3	+/-0.3	0.11	0.3	10/02/2019
Nitrate	mg/L	< 0.5	+/-0.5	0.099	0.5	10/02/2019
Sulfate	mg/L	< 3	+/-3	0.56	3	10/02/2019
Orthophosphate as P	mg/L	< 0.5	+/-0.5	0.14	0.5	10/02/2019
Sample ID: LB105455BLW						
Bromide	mg/L	< 1	+/-1	0.28	1	10/03/2019
Chloride	mg/L	< 0.6	+/-0.6	0.075	0.6	10/03/2019
Fluoride	mg/L	< 0.4	+/-0.4	0.15	0.4	10/03/2019
Nitrite	mg/L	< 0.3	+/-0.3	0.11	0.3	10/03/2019
Nitrate	mg/L	< 0.5	+/-0.5	0.099	0.5	10/03/2019
Sulfate	mg/L	< 3	+/-3	0.56	3	10/03/2019
Orthophosphate as P	mg/L	< 0.5	+/-0.5	0.14	0.5	10/03/2019
Sample ID: LB105455BLW2						
Bromide	mg/L	< 1	+/-1	0.28	1	10/03/2019
Chloride	mg/L	< 0.6	+/-0.6	0.075	0.6	10/03/2019
Fluoride	mg/L	< 0.4	+/-0.4	0.15	0.4	10/03/2019
Nitrite	mg/L	< 0.3	+/-0.3	0.11	0.3	10/03/2019
Nitrate	mg/L	< 0.5	+/-0.5	0.099	0.5	10/03/2019
Sulfate	mg/L	< 3	+/-3	0.56	3	10/03/2019
Orthophosphate as P	mg/L	< 0.5	+/-0.5	0.14	0.5	10/03/2019
Sample ID: LB105455BLW3						
Bromide	mg/L	< 1	+/-1	0.28	1	10/04/2019
Chloride	mg/L	< 0.6	+/-0.6	0.075	0.6	10/04/2019
Fluoride	mg/L	< 0.4	+/-0.4	0.15	0.4	10/04/2019
Nitrite	mg/L	< 0.3	+/-0.3	0.11	0.3	10/04/2019
Nitrate	mg/L	< 0.5	+/-0.5	0.099	0.5	10/04/2019
Sulfate	mg/L	< 3	+/-3	0.56	3	10/04/2019
Orthophosphate as P	mg/L	< 0.5	+/-0.5	0.14	0.5	10/04/2019
Sample ID: LB105455BLW4						
Bromide	mg/L	< 1	+/-1	0.28	1	10/04/2019
Chloride	mg/L	< 0.6	+/-0.6	0.075	0.6	10/04/2019
Fluoride	mg/L	< 0.4	+/-0.4	0.15	0.4	10/04/2019
Nitrite	mg/L	< 0.3	+/-0.3	0.11	0.3	10/04/2019
Nitrate	mg/L	< 0.5	+/-0.5	0.099	0.5	10/04/2019
Sulfate	mg/L	< 3	+/-3	0.56	3	10/04/2019
Orthophosphate as P	mg/L	< 0.5	+/-0.5	0.14	0.5	10/04/2019

Matrix Spike Summary

Client:	TRC Companies, Inc.	SDG No.:	K5154
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Sample ID:	K5154-06
Client ID:	MW-107MS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	19.5		10.0		10	1	95		10/02/2019
Chloride	mg/L	80-120	4190	OR	4680	OR	3	1	-16333	*	10/02/2019
Fluoride	mg/L	80-120	2.40		0.15	U	2	1	120		10/02/2019
Nitrite	mg/L	80-120	0.67		0.11	U	3	1	22	*	10/02/2019
Nitrate	mg/L	80-120	2.60		0.099	U	2.5	1	104		10/02/2019
Sulfate	mg/L	80-120	438	OR	461	OR	15	1	-153	*	10/02/2019
Orthophosphate as P	mg/L	80-120	5.00		0.14	U	5	1	100		10/02/2019

Matrix Spike Summary

Client:	TRC Companies, Inc.	SDG No.:	K5154
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Sample ID:	K5154-06
Client ID:	MW-107MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	19.4		10.0		10	1	94		10/02/2019
Chloride	mg/L	80-120	4250	OR	4680	OR	3	1	-14333	*	10/02/2019
Fluoride	mg/L	80-120	2.30		0.15	U	2	1	115		10/02/2019
Nitrite	mg/L	80-120	0.47		0.11	U	3	1	16	*	10/02/2019
Nitrate	mg/L	80-120	2.50		0.099	U	2.5	1	100		10/02/2019
Sulfate	mg/L	80-120	437	OR	461	OR	15	1	-160	*	10/02/2019
Orthophosphate as P	mg/L	80-120	5.10		0.14	U	5	1	102		10/02/2019

Matrix Spike Summary

Client:	TRC Companies, Inc.	SDG No.:	K5154
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Sample ID:	K5154-11
Client ID:	MW-103IMS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	10.8		1.60		10	1	92		10/03/2019
Chloride	mg/L	80-120	612	OR	672	OR	3	1	-2000	*	10/03/2019
Fluoride	mg/L	80-120	2.20		0.30	J	2	1	95		10/03/2019
Nitrite	mg/L	80-120	2.50		0.11	U	3	1	83		10/03/2019
Nitrate	mg/L	80-120	2.50		0.099	U	2.5	1	100		10/03/2019
Sulfate	mg/L	80-120	31.4		18.8		15	1	84		10/03/2019
Orthophosphate as P	mg/L	80-120	6.60		1.20		5	1	108		10/03/2019

Matrix Spike Summary

Client:	TRC Companies, Inc.	SDG No.:	K5154
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Sample ID:	K5154-11
Client ID:	MW-103IMSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	11.1		1.60		10	1	95		10/03/2019
Chloride	mg/L	80-120	605	OR	672	OR	3	1	-2233	*	10/03/2019
Fluoride	mg/L	80-120	2.40		0.30	J	2	1	105		10/03/2019
Nitrite	mg/L	80-120	2.50		0.11	U	3	1	83		10/03/2019
Nitrate	mg/L	80-120	2.50		0.099	U	2.5	1	100		10/03/2019
Sulfate	mg/L	80-120	31.9		18.8		15	1	87		10/03/2019
Orthophosphate as P	mg/L	80-120	6.80		1.20		5	1	112		10/03/2019

Matrix Spike Summary

Client:	TRC Companies, Inc.	SDG No.:	K5154
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Sample ID:	K5154-26
Client ID:	MW-101DMS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	9.90		0.28	U	10	1	99		10/04/2019
Chloride	mg/L	80-120	584	OR	625	OR	3	1	-1367	*	10/04/2019
Fluoride	mg/L	80-120	4.10		0.15	U	2	1	205	*	10/04/2019
Nitrite	mg/L	80-120	1.50		0.11	U	3	1	50	*	10/04/2019
Nitrate	mg/L	80-120	13.3	OR	11.4	OR	2.5	1	76	*	10/04/2019
Sulfate	mg/L	80-120	107	OR	99.5	OR	15	1	50	*	10/04/2019
Orthophosphate as P	mg/L	80-120	5.70		0.14	U	5	1	114		10/04/2019

Matrix Spike Summary

Client:	TRC Companies, Inc.	SDG No.:	K5154
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Sample ID:	K5154-26
Client ID:	MW-101DMSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	10.2		0.28	U	10	1	102		10/04/2019
Chloride	mg/L	80-120	593	OR	625	OR	3	1	-1067	*	10/04/2019
Fluoride	mg/L	80-120	4.10		0.15	U	2	1	205	*	10/04/2019
Nitrite	mg/L	80-120	1.60		0.11	U	3	1	53	*	10/04/2019
Nitrate	mg/L	80-120	13.3	OR	11.4	OR	2.5	1	76	*	10/04/2019
Sulfate	mg/L	80-120	106	OR	99.5	OR	15	1	43	*	10/04/2019
Orthophosphate as P	mg/L	80-120	6.10		0.14	U	5	1	122	*	10/04/2019

Matrix Spike Summary

Client:	TRC Companies, Inc.	SDG No.:	K5154
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Sample ID:	K5168-12
Client ID:	20190770-SS-COMPOSITE-10MS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	11.3	OR	1.80		10	1	95		10/04/2019
Chloride	mg/L	80-120	640		707	OR	3	1	-2233	*	10/04/2019
Fluoride	mg/L	80-120	4.80		0.15	U	2	1	240	*	10/04/2019
Nitrite	mg/L	80-120	2.80		0.11	U	3	1	93		10/04/2019
Nitrate	mg/L	80-120	2.60		0.099	U	2.5	1	104		10/04/2019
Sulfate	mg/L	80-120	34.7		20.1		15	1	97		10/04/2019
Orthophosphate as P	mg/L	80-120	5.80		0.14	U	5	1	116		10/04/2019

Matrix Spike Summary

Client:	TRC Companies, Inc.	SDG No.:	K5154
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Sample ID:	K5168-12
Client ID:	20190770-SS-COMPOSITE-10MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	11.2		1.80		10	1	94		10/04/2019
Chloride	mg/L	80-120	639	OR	707	OR	3	1	-2267	*	10/04/2019
Fluoride	mg/L	80-120	4.50		0.15	U	2	1	225	*	10/04/2019
Nitrite	mg/L	80-120	2.80		0.11	U	3	1	93		10/04/2019
Nitrate	mg/L	80-120	2.50		0.099	U	2.5	1	100		10/04/2019
Sulfate	mg/L	80-120	34.7		20.1		15	1	97		10/04/2019
Orthophosphate as P	mg/L	80-120	5.80		0.14	U	5	1	116		10/04/2019

Duplicate Sample Summary

Client:	TRC Companies, Inc.	SDG No.:	K5154
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Sample ID:	K5154-06
Client ID:	MW-107DUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifie	Duplicate Result	Conc. Qualifie	Dilution Factor	RPD/ AD	Qual	Analysis Date
Sulfate	mg/L	+/-20	461	OR	461	OR	1	0		10/02/2019
Fluoride	mg/L	+/-20	0.15	U	0.15	U	1	0		10/02/2019
Nitrate	mg/L	+/-20	0.099	U	0.099	U	1	0		10/02/2019
Nitrite	mg/L	+/-20	0.11	U	0.11	U	1	0		10/02/2019
Orthophosphate as P	mg/L	+/-20	0.14	U	0.14	U	1	0		10/02/2019
Bromide	mg/L	+/-20	10.0		10.1		1	1		10/02/2019
Chloride	mg/L	+/-20	4680	OR	4630	OR	1	1		10/02/2019

Duplicate Sample Summary

Client:	TRC Companies, Inc.	SDG No.:	K5154
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Sample ID:	K5154-06
Client ID:	MW-107MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifie	Duplicate Result	Conc. Qualifie	Dilution Factor	RPD/AD	Qual	Analysis Date
Sulfate	mg/L	+/-20	438	OR	437	OR	1	0		10/02/2019
Bromide	mg/L	+/-20	19.5		19.4		1	1		10/02/2019
Chloride	mg/L	+/-20	4190	OR	4250	OR	1	1		10/02/2019
Orthophosphate as P	mg/L	+/-20	5.00		5.10		1	2		10/02/2019
Fluoride	mg/L	+/-20	2.40		2.30		1	4		10/02/2019
Nitrate	mg/L	+/-20	2.60		2.50		1	4		10/02/2019
Nitrite	mg/L	+/-20	0.67		0.47		1	35	*	10/02/2019

Duplicate Sample Summary

Client:	TRC Companies, Inc.	SDG No.:	K5154
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Sample ID:	K5154-11
Client ID:	MW-103IDUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifie	Duplicate Result	Conc. Qualifie	Dilution Factor	RPD/AD	Qual	Analysis Date
Orthophosphate as P	mg/L	+/-20	1.20		1.20		1	0		10/03/2019
Nitrate	mg/L	+/-20	0.099	U	0.099	U	1	0		10/03/2019
Nitrite	mg/L	+/-20	0.11	U	0.11	U	1	0		10/03/2019
Sulfate	mg/L	+/-20	18.8		18.6		1	1		10/03/2019
Chloride	mg/L	+/-20	672	OR	687	OR	1	2		10/03/2019
Bromide	mg/L	+/-20	1.60		1.50		1	6		10/03/2019
Fluoride	mg/L	+/-20	0.30	J	0.15	U	1	200	*	10/03/2019

Duplicate Sample Summary

Client:	TRC Companies, Inc.	SDG No.:	K5154
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Sample ID:	K5154-11
Client ID:	MW-103IMSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifie	Duplicate Result	Conc. Qualifie	Dilution Factor	RPD/ AD	Qual	Analysis Date
Nitrate	mg/L	+/-20	2.50		2.50		1	0		10/03/2019
Nitrite	mg/L	+/-20	2.50		2.50		1	0		10/03/2019
Chloride	mg/L	+/-20	612	OR	605	OR	1	1		10/03/2019
Sulfate	mg/L	+/-20	31.4		31.9		1	2		10/03/2019
Bromide	mg/L	+/-20	10.8		11.1		1	3		10/03/2019
Orthophosphate as P	mg/L	+/-20	6.60		6.80		1	3		10/03/2019
Fluoride	mg/L	+/-20	2.20		2.40		1	9		10/03/2019

Duplicate Sample Summary

Client:	TRC Companies, Inc.	SDG No.:	K5154
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Sample ID:	K5154-26
Client ID:	MW-101DDUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifie	Duplicate Result	Conc. Qualifie	Dilution Factor	RPD/AD	Qual	Analysis Date
Bromide	mg/L	+/-20	0.28	U	0.28	U	1	0		10/04/2019
Fluoride	mg/L	+/-20	0.15	U	0.15	U	1	0		10/04/2019
Nitrite	mg/L	+/-20	0.11	U	0.11	U	1	0		10/04/2019
Orthophosphate as P	mg/L	+/-20	0.14	U	0.14	U	1	0		10/04/2019
Chloride	mg/L	+/-20	625	OR	629	OR	1	1		10/04/2019
Sulfate	mg/L	+/-20	99.5	OR	98.0	OR	1	2		10/04/2019
Nitrate	mg/L	+/-20	11.4	OR	11.7	OR	1	3		10/04/2019

Duplicate Sample Summary

Client:	TRC Companies, Inc.	SDG No.:	K5154
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Sample ID:	K5154-26
Client ID:	MW-101DMSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifie	Duplicate Result	Conc. Qualifie	Dilution Factor	RPD/ AD	Qual	Analysis Date
Fluoride	mg/L	+/-20	4.10		4.10		1	0		10/04/2019
Nitrate	mg/L	+/-20	13.3	OR	13.3	OR	1	0		10/04/2019
Sulfate	mg/L	+/-20	107	OR	106	OR	1	1		10/04/2019
Chloride	mg/L	+/-20	584	OR	593	OR	1	2		10/04/2019
Bromide	mg/L	+/-20	9.90		10.2		1	3		10/04/2019
Nitrite	mg/L	+/-20	1.50		1.60		1	6		10/04/2019
Orthophosphate as P	mg/L	+/-20	5.70		6.10		1	7		10/04/2019

Duplicate Sample Summary

Client:	TRC Companies, Inc.	SDG No.:	K5154
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Sample ID:	K5168-12
Client ID:	20190770-SS-COMPOSITE-10	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifie	Duplicate Result	Conc. Qualifie	Dilution Factor	RPD/ AD	Qual	Analysis Date
Bromide	mg/L	+/-20	1.80		1.80		1	0		10/04/2019
Fluoride	mg/L	+/-20	0.15	U	0.15	U	1	0		10/04/2019
Nitrate	mg/L	+/-20	0.099	U	0.099	U	1	0		10/04/2019
Nitrite	mg/L	+/-20	0.11	U	0.11	U	1	0		10/04/2019
Orthophosphate as P	mg/L	+/-20	0.14	U	0.14	U	1	0		10/04/2019
Chloride	mg/L	+/-20	707	OR	712	OR	1	1		10/04/2019
Sulfate	mg/L	+/-20	20.1		20.8		1	3		10/04/2019

Duplicate Sample Summary

Client: TRC Companies, Inc.	SDG No.: K5154
Project: NYCDPR Bush Terminal LandFill Piers 1-4	Sample ID: K5168-12
Client ID: 20190770-SS-COMPOSITE-10MSD	Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifie	Duplicate Result	Conc. Qualifie	Dilution Factor	RPD/AD	Qual	Analysis Date
Nitrite	mg/L	+/-20	2.80		2.80		1	0		10/04/2019
Orthophosphate as P	mg/L	+/-20	5.80		5.80		1	0		10/04/2019
Sulfate	mg/L	+/-20	34.7		34.7		1	0		10/04/2019
Chloride	mg/L	+/-20	640	OR	639	OR	1	0		10/04/2019
Bromide	mg/L	+/-20	11.3		11.2		1	1		10/04/2019
Nitrate	mg/L	+/-20	2.60		2.50		1	4		10/04/2019
Fluoride	mg/L	+/-20	4.80		4.50		1	6		10/04/2019

Laboratory Control Sample Summary

Client: TRC Companies, Inc.

SDG No.: K5154

Project: NYCDPR Bush Terminal LandFill Piers 1-4

Run No.: LB105422

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB105422BSW							
Bromide	mg/L	10	9.60		96	1	90-110	10/02/2019
Chloride	mg/L	3	2.90		97	1	90-110	10/02/2019
Fluoride	mg/L	2	1.90		95	1	90-110	10/02/2019
Nitrite	mg/L	3	2.90		97	1	90-110	10/02/2019
Nitrate	mg/L	2.5	2.40		96	1	90-110	10/02/2019
Sulfate	mg/L	15	14.3		95	1	90-110	10/02/2019
Orthophosphate as P	mg/L	5	4.90		98	1	90-110	10/02/2019

Laboratory Control Sample Summary

Client: TRC Companies, Inc.

SDG No.: K5154

Project: NYCDPR Bush Terminal LandFill Piers 1-4

Run No.: LB105455

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB105455BSW							
Bromide	mg/L	10	10.0		100	1	90-110	10/03/2019
Chloride	mg/L	3	3.00		100	1	90-110	10/03/2019
Fluoride	mg/L	2	2.00		100	1	90-110	10/03/2019
Nitrite	mg/L	3	3.00		100	1	90-110	10/03/2019
Nitrate	mg/L	2.5	2.50		100	1	90-110	10/03/2019
Sulfate	mg/L	15	15.2		101	1	90-110	10/03/2019
Orthophosphate as P	mg/L	5	5.20		104	1	90-110	10/03/2019

Laboratory Control Sample Summary

Client: TRC Companies, Inc.

SDG No.: K5154

Project: NYCDPR Bush Terminal LandFill Piers 1-4

Run No.: LB105455

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB105455BSW2							
Bromide	mg/L	10	10.1		101	1	90-110	10/04/2019
Chloride	mg/L	3	3.00		100	1	90-110	10/04/2019
Fluoride	mg/L	2	2.10		105	1	90-110	10/04/2019
Nitrite	mg/L	3	3.00		100	1	90-110	10/04/2019
Nitrate	mg/L	2.5	2.60		104	1	90-110	10/04/2019
Sulfate	mg/L	15	14.4		96	1	90-110	10/04/2019
Orthophosphate as P	mg/L	5	5.40		108	1	90-110	10/04/2019

Laboratory Control Sample Summary

Client: TRC Companies, Inc.

SDG No.: K5154

Project: NYCDPR Bush Terminal LandFill Piers 1-4

Run No.: LB105455

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB105455BSW3							
Bromide	mg/L	10	9.50		95	1	90-110	10/04/2019
Chloride	mg/L	3	2.90		97	1	90-110	10/04/2019
Fluoride	mg/L	2	2.00		100	1	90-110	10/04/2019
Nitrite	mg/L	3	3.00		100	1	90-110	10/04/2019
Nitrate	mg/L	2.5	2.50		100	1	90-110	10/04/2019
Sulfate	mg/L	15	14.6		97	1	90-110	10/04/2019
Orthophosphate as P	mg/L	5	4.90		98	1	90-110	10/04/2019

Laboratory Control Sample Summary

Client: TRC Companies, Inc.

SDG No.: K5154

Project: NYCDPR Bush Terminal LandFill Piers 1-4

Run No.: LB105455

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB105455BSW4							
Bromide	mg/L	10	9.70		97	1	90-110	10/04/2019
Chloride	mg/L	3	3.00		100	1	90-110	10/04/2019
Fluoride	mg/L	2	2.10		105	1	90-110	10/04/2019
Nitrite	mg/L	3	3.00		100	1	90-110	10/04/2019
Nitrate	mg/L	2.5	2.50		100	1	90-110	10/04/2019
Sulfate	mg/L	15	14.3		95	1	90-110	10/04/2019
Orthophosphate as P	mg/L	5	5.20		104	1	90-110	10/04/2019

Method Detection Limits

Client:TRC Companies, Inc.

SDG No.:K5154

Project:NYCDPR Bush Terminal LandFill Piers 1-4

Analyte	Units	MDL	RDL
Method: 300.0		MDL Date:	01/15/2006
Matrix Category: WATER			
Chloride	mg/L	0.075	0.60

SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

Chemtech Project Number **K5154**
COC Number **2026742**

CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION	
Report to be sent to:		PROJECT NAME: Bush Term. Park		BILL TO: Same	
COMPANY: TRC Engineers, Inc.		PROJECT #: 254798		PO# 363822	
ADDRESS: 71 Griffin Road		LOCATION: Blyn		ADDRESS: Same	
CITY: Windsor STATE: CT ZIP: 06095		PROJECT MANAGER: Jim Perento		CITY: Same STATE: CT ZIP: 06095	
ATTENTION: Jim Perento		E-MAIL: JPerento@TRCcompany.com		ATTENTION: Same	
PHONE: 8602986233		PHONE: 8602986233		PHONE: Same	

DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS	
FAX (RUSH) STD DAYS*		☐ Level 1 (Results Only)		☐ Level 4 (QC + Full Raw Data)	
HARDCOPY (DATA PACKAGE): STD DAYS*		☒ Level 2 (Results + QC)		☐ NJ Reduced ☐ US EPA CLP	
EDD: STD DAYS*		☐ Level 3 (Results + QC + Raw Data)		☐ NYS ASP A ☒ NYS ASP B	
*TO BE APPROVED BY CHEMTECH		☒ EDD FORMAT		☐ Other	
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS					

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		A	E	B	E							
1.	TB-100/2019	AR	-	-	10/01	0830	2	X										
2.	FB-100/2019	AR	-	-		0830	5	X	X	X	X							
3.	MW-106S	GW	-	G		1050	5	X	X	X	X							
4.	MW-106I		-	G		1145	5	X	X	X	X							
5.	MW-106D		-	G		1200	5	X	X	X	X							
6.	MW-107		-	G		1350	5	X	X	X	X							
7.																		
8.																		
9.																		
10.																		

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY	Conditions of bottles or collars at receipt:
1. Paul Gulari	10/01/19	1. Paul Gulari	☒ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.4
2. Paul Gulari		2. Paul Gulari	Comments: ① NYSDEC ASP Cat. B ② NYS-BCP Part 315 ③ Please Batch All Samples for 10/1 & 10/3
3. Paul Gulari	10-1-19 3:20	3. SB	Page 01 of 01

CLIENT: ☐ Hand Delivered ☐ Other: **Same**
CHEMTECH: ☒ Picked Up
Shipment Complete: ☒ YES ☐ NO

10/2018 WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY **in one Report.**

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

Chemtech Project Number K5154
COC Number 2026737

CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION	
Report to be sent to:		PROJECT NAME: <u>Bush Farm, Parle</u>		BILL TO: <u>Same</u> PO# <u>363822</u>	
COMPANY: <u>TRE Engineers Inc</u>		PROJECT #: <u>254798</u> LOCATION: <u>B'lyn</u>		ADDRESS: <u>Same</u>	
ADDRESS: <u>71 Griffin Road</u>		PROJECT MANAGER: <u>Jcm Perento</u>		CITY: <u>Same</u> STATE: ZIP:	
CITY: <u>Windsor, CT</u> ZIP: <u>06095</u>		E-MAIL: <u>Perento@TREcompanies.com</u>		ATTENTION:	
ATTENTION: <u>Jcm Perento</u>		PHONE: <u>8602986232</u> FAX: <u>com</u>		PHONE:	
PHONE: <u>8602986233</u>					

DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS	
FAX (RUSH) _____	DAYS*	☐ Level 1 (Results Only)	☐ Level 4 (QC + Full Raw Data)		
HARDCOPY (DATA PACKAGE): <u>STD</u>	DAYS*	☒ Level 2 (Results + QC)	☐ NJ Reduced ☐ US EPA CLP		
EDD: _____	DAYS*	☐ Level 3 (Results + QC + Raw Data)	☐ NYS ASP A ☒ NYS ASP B		
*TO BE APPROVED BY CHEMTECH		☒ EDD FORMAT _____	☐ Other _____		
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS					

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9		
1. TB-16022019		AG		G	10/02	0800	2	X										
2. MW-103 S		GW				0915	5	X	X	X	X							
3. MW-103 I - MS/MSD						1025	15	X	X	X	X							
4. MW-103 D						1140	5	X	X	X	X							
5. MW-105 S						1027		X	X	X	X							
6. MW-105 I						1058		X	X	X	X							
7. MW-105 D						1140		X	X	X	X							
8. MW-104 I						1925		X	X	X	X							
9. MW-104 D						1930		X	X	X	X							
10.																		

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY					
RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY	DATE/TIME	Conditions of bottles or collars at receipt:	
1. <u>Paul Gulat</u>	10/02/19	1. <u>Paul Gulat</u>	10-2-19 2:55	☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>2-1</u>	
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	Comments:	
2.		2.		<u>ONYSDEC-ASP Cat. B.</u>	
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY	DATE/TIME		
3. <u>Paul Gulat</u>	10-2-19 4:24	3. <u>SC</u>		<u>NYS BCP last 375</u>	
				Page <u>07</u> of <u>07</u>	
				CLIENT: ☐ Hand Delivered ☐ Other: _____	
				CHEMTECH: ☐ Picked Up	
				Shipment Complete ☐ YES ☐ NO	

10/2018

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY

on one Report

From: Steven Kim <steven@chemtech.net>
Sent: Tuesday, October 01, 2019 6:58 PM
To: 'Mohammad'
Cc: 'Steven Chaimowitz'; 'Samantha Beazley'
Subject: RE: K5154

Okay, project ID has been changed.

From: Mohammad [<mailto:mohammad@chemtech.net>]
Sent: Tuesday, October 01, 2019 6:17 PM
To: steven@chemtech.net
Cc: Steven Chaimowitz; Samantha Beazley
Subject: Re: K5154

You can change the project ID

Thanks,

Mohammad Ahmed
Lab Manager
Direct line: [\(908\)-728-3151](tel:908-728-3151)
Fax: [\(908\)-789-8922](tel:908-789-8922)



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On Oct 1, 2019, at 5:04 PM, Steven Kim <steven@chemtech.net> wrote:

Is it okay to change the project ID for K5154 to remove the 2019 at the end and follow the same project ID as we have done in the past? Looks like this project was signed off at 4:00 PM today.

Regards,

Steven Kim
Account Executive
Direct: (908) 728-3157
Fax: (908) 789-8922
Mobile: (732) 688-2642

CHEMTECH

284 Sheffield Street,
Mountainside, New Jersey 07092
Phone: (908) 789 8900
Fax: (908) 789 8922



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From: Steven Kim <steven@chemtech.net>
Sent: Tuesday, October 01, 2019 5:06 PM
To: 'Chalmers, Aine'; 'Peronto, Jim'
Cc: Steven Chaimowitz; Samantha Beazley
Subject: RE: Login Summary Details For Project NYCDPR Bush Terminal LandFill Piers 1-4 2019-K5154.

Hi Aine/Jim,

Yes, the total anions analysis listed on the login summary report is for Chloride only.

Regards,

Steven Kim
 Account Executive
 Direct: (908) 728-3157
 Fax: (908) 789-8922
 Mobile: (732) 688-2642

CHEMTECH

284 Sheffield Street,
 Mountainside, New Jersey 07092
 Phone: (908) 789 8900
 Fax: (908) 789 8922



From: Chalmers, Aine [mailto:ACHalmers@trccompanies.com]
Sent: Tuesday, October 01, 2019 4:41 PM
To: Peronto, Jim; CHEMTECH-Login@chemtech.net
Cc: DanielKelly@chemtech.net
Subject: Re: Login Summary Details For Project NYCDPR Bush Terminal LandFill Piers 1-4 2019-K5154.

Thank you for the log-in summary. I just want to confirm that total chloride is a part of the total anions analysis.

Aine Chalmers

Environmental Engineer
 C: 646-939-1771
 O: 212-221-7822

Sent from iPhone. Please ignore any typos.

From: Peronto, Jim <JPeronto@trccompanies.com>
Sent: Tuesday, October 1, 2019 4:08:08 PM
To: CHEMTECH-Login@chemtech.net <CHEMTECH-Login@chemtech.net>
Cc: DanielKelly@chemtech.net <DanielKelly@chemtech.net>; Chalmers, Aine <AChalmers@trccompanies.com>
Subject: RE: Login Summary Details For Project NYCDPR Bush Terminal LandFill Piers 1-4 2019-K5154.

Please copy Aine Chalmers of TRC at achalmers@trccompanies.com on all Login Summary Details for this project.

Jim Peronto
 TRC
 860-298-6233

From: CHEMTECH-Login@chemtech.net <CHEMTECH-Login@chemtech.net>
Sent: Tuesday, October 1, 2019 4:00 PM
To: Peronto, Jim <JPeronto@trccompanies.com>
Cc: DanielKelly@chemtech.net
Subject: Login Summary Details For Project NYCDPR Bush Terminal LandFill Piers 1-4 2019-K5154.



To Jim Peronto;

Please see the attached Login Summary for the following project, or download the file using your login credentials from the link below.

Order ID	: K5154
Project ID	: NYCDPR Bush Terminal LandFill Piers 1-4 2019
Download File	: https://client.chemtech.net
Order Date	: 10/1/2019 2:37:56 PM

CHEMTECH's Project Manager : Daniel Kelly , DanielKelly@chemtech.net , Ext :

CHEMTECH's Sales Executive : Steven Kim , steven@chemtech.net , 908-728-3157 Ext :

Thank you for the opportunity to provide you with our services. For any questions please feel free to contact your project manager.

Click Here for our short online customer Survey <http://chemtech.net/ClientSurvey.aspx>.

Thank you,

CHEMTECH

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New York	11376
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