UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory
Environmental Services Branch
10625 Fallstone Road, Houston, TX 77099
Phone: (281)983-2100 Fax: (281)983-2248

Final Analytical Report

Site Name ----------	Craft Turney
Sample Collection Date(s)--	10/10/18
Contact----------	Kim Ngo (6WQ-SD)
Report Date----------	10/12/18
Project #----------	19SDWA007
Work Order(s)----------	1810011

Analyses included in this report:

P/P GC-NPD - Methylene bis(thiocyanate)

Report Narrative

The analytical method used for this test is new and was developed specifically for drinking water samples collected by TCEQ for the Craft-Turney Drinking Water Incident. The analytical method developed and used by the EPA Region 6 Houston Environmental Laboratory (Lab) has not been externally validated, and the Lab is not certified to test for this chemical. Quantitation was made using pure Methylene bis(thiocyanate) [MBT] product that was provided to the Lab by ISK Biocides, Inc. Samples were collected using EPA Drinking Water Method 525.2 preservatives (HCl to pH 2; sodium sulfite dechlorination). Literature searches showed the MBT target to be stable in water at pH 5 and below and not subject to oxidation by free chlorine (internal Lab tests confirmed that MBT survived in chlorinated tap water that was not dechlorinated). These Lab tests also showed the dechlorinating agent did not negatively affect recovery; therefore, samplers were instructed to follow the same 525.2 protocol that was used for collecting other incident related samples. Samples were extracted by micro-extraction and analyzed by Gas Chromatography - Nitrogen Phosphorous Detector (GC-NPD) analysis. Standard quality control procedures were followed.

Batch B8J1114: MBT fails high in the MS/MSD. MBT was not detected in any sample so the high failure should not affect the data.

Sample Management:

Sample 1810011-19 (W011003-01) had a time of collection on the containers of 10:15 but was

Report Narrative (cont'd)

listed on chain of custody as 10:25. Sample was logged into LIMS per the chain of custody.

Sample 1810011-31 (W011005-01) and 1810011-32 (W011005-02) had no time of collection on the containers. Sample was logged into LIMS per the chain of custody.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

The reporting limit (sometimes referred to as a quantitation limit) is defined as the lowest concentration at which an analyte can be reliably measured and reported without qualification. Reporting limits are adjusted for sample size, dilution, and matrix interference. Concentrations below the reporting limit are reported as non-detects or <RL.

For a list of ISO 17025 accredited methods go to:
http://region6a.epa.gov/intranet/6md/lab/labisocertification2018.pdf

Report Approvals:

MARVELYN HUMPHREY Digitally signed by MARVELYN HUMPHREY DN: c=US, o=U.S. Government, ou=USEPA, ou=Staff, cn=MARVELYN HUMPHREY, dnQualifier=0000006010 Date: 2018.10.12 13:23:22 -05'00'

Richard McMillin
Region 6 Laboratory Technical Manager

DAVID MCQUIDDY Digitally signed by DAVID MCQUIDDY Date: 2018.10.12 13:29:30 -05'00'

David W. McQuiddy
Region 6 Laboratory Branch Chief

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Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road
Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Craft Turney

Project Number: 19SDWA007

Data Management Coordinator: Christy Warren

/ /

Data Management Coordinator Signature

Date

Date Transmitted: _____/_____/_____

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren
Data Management Coordinator
Region 6 Laboratory
6MD-HS

_____/_____/_____

Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

_____ _____

Signature Date

Please provide a reason for holding:

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ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
W011010-01	1810011-01	Liquid	10/10/18 14:15	10/10/18 19:45
W011023-01	1810011-02	Liquid	10/10/18 13:25	10/10/18 19:45
W011023-02	1810011-03	Liquid	10/10/18 13:45	10/10/18 19:45
W011023-03	1810011-04	Liquid	10/10/18 14:05	10/10/18 19:45
W011013-01	1810011-05	Liquid	10/10/18 13:30	10/10/18 19:45
W011013-02	1810011-06	Liquid	10/10/18 13:45	10/10/18 19:45
W011013-03	1810011-07	Liquid	10/10/18 14:00	10/10/18 19:45
W011003-02	1810011-08	Liquid	10/10/18 10:48	10/10/18 19:45
W011003-03	1810011-09	Liquid	10/10/18 11:17	10/10/18 19:45
W011009-01	1810011-10	Liquid	10/10/18 13:16	10/10/18 19:45
W011009-02	1810011-11	Liquid	10/10/18 13:33	10/10/18 19:45
W011009-03	1810011-12	Liquid	10/10/18 13:49	10/10/18 19:45
W011004-02/03	1810011-13	Liquid	10/10/18 11:55	10/10/18 19:45
W011014-01	1810011-14	Liquid	10/10/18 11:26	10/10/18 19:45
W011021-02	1810011-15	Liquid	10/10/18 10:45	10/10/18 19:45
W011028-01	1810011-16	Liquid	10/10/18 10:25	10/10/18 19:45
W011028-02	1810011-17	Liquid	10/10/18 12:23	10/10/18 19:45
W011028-03	1810011-18	Liquid	10/10/18 11:04	10/10/18 19:45
W011003-01	1810011-19	Liquid	10/10/18 10:25	10/10/18 19:45
W011004-01	1810011-20	Liquid	10/10/18 11:28	10/10/18 19:45
W011014-02	1810011-21	Liquid	10/10/18 12:00	10/10/18 19:45
W011021-01	1810011-22	Liquid	10/10/18 10:24	10/10/18 19:45
W011021-03	1810011-23	Liquid	10/10/18 11:06	10/10/18 19:45
W011017-01	1810011-24	Liquid	10/10/18 11:10	10/10/18 19:45
W011017-02	1810011-25	Liquid	10/10/18 11:29	10/10/18 19:45
W011019-01	1810011-26	Liquid	10/10/18 10:05	10/10/18 19:45
W011019-02	1810011-27	Liquid	10/10/18 10:35	10/10/18 19:45
W011007-01	1810011-28	Liquid	10/10/18 11:06	10/10/18 19:45
W011007-02	1810011-29	Liquid	10/10/18 11:30	10/10/18 19:45
W011007-03	1810011-30	Liquid	10/10/18 10:30	10/10/18 19:45
W011005-01	1810011-31	Liquid	10/10/18 11:46	10/10/18 19:45
W011005-02	1810011-32	Liquid	10/10/18 12:07	10/10/18 19:45
W011022-01	1810011-33	Liquid	10/10/18 10:05	10/10/18 19:45
W011022-02	1810011-34	Liquid	10/10/18 10:25	10/10/18 19:45
W011022-03	1810011-35	Liquid	10/10/18 10:50	10/10/18 19:45

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QC SUMMARY REPORT

P/P GC-NPD - Methylene bis(thiocyanate)	
B8J1113	
Liquid	
Samples: 20	**ReExts: 0**
LAB NUMBER	**SOURCE**
B8J1113-BLK1	
B8J1113-BS1	
B8J1113-MS1	1810011-13
B8J1113-MSD1	1810011-13
B8J1114	
Liquid	
Samples: 15	**ReExts: 0**
LAB NUMBER	**SOURCE**
B8J1114-BLK1	
B8J1114-BS1	
B8J1114-MS1	1810011-26
B8J1114-MSD1	1810011-26

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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-01 **Station ID: W011010-01**

Batch: B8J1113 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	19.8		106	70-130	10/11/18	10/11/18
Triphenyl phosphate	18.2		97.3	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-02 **Station ID: W011023-01**

Batch: B8J1113 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	19.8		106	70-130	10/11/18	10/11/18
Triphenyl phosphate	18.1		96.3	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-03 **Station ID: W011023-02**

Batch: B8J1113 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	18.3		97.7	70-130	10/11/18	10/11/18
Triphenyl phosphate	17.0		90.6	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-04 **Station ID: W011023-03**

Batch: B8J1113 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	19.4		103	70-130	10/11/18	10/11/18
Triphenyl phosphate	17.2		92.0	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-05 **Station ID: W011013-01**

Batch: B8J1113 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	18.8		100	70-130	10/11/18	10/11/18
Triphenyl phosphate	17.4		93.0	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-06 **Station ID: W011013-02**

Batch: B8J1113 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	17.5		93.3	70-130	10/11/18	10/11/18
Triphenyl phosphate	17.9		95.7	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-07 **Station ID: W011013-03**

Batch: B8J1113 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	19.5		104	70-130	10/11/18	10/11/18
Triphenyl phosphate	17.6		93.7	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-08 **Station ID: W011003-02**

Batch: B8J1113 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	17.9		95.4	70-130	10/11/18	10/11/18
Triphenyl phosphate	17.5		93.5	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-09 **Station ID: W011003-03**

Batch: B8J1113 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	18.6		99.2	70-130	10/11/18	10/11/18
Triphenyl phosphate	17.6		93.6	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-10 **Station ID: W011009-01**

Batch: B8J1113 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	16.8		89.7	70-130	10/11/18	10/11/18
Triphenyl phosphate	16.4		87.2	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-11 **Station ID: W011009-02**

Batch: B8J1113 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	21.6		115	70-130	10/11/18	10/11/18
Triphenyl phosphate	20.1		107	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-12 **Station ID: W011009-03**

Batch: B8J1113 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	19.8		105	70-130	10/11/18	10/11/18
Triphenyl phosphate	18.0		95.7	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-13 **Station ID: W011004-02/03**

Batch: B8J1113 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	16.8		89.7	70-130	10/11/18	10/11/18
Triphenyl phosphate	16.6		88.5	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-14 **Station ID: W011014-01**

Batch: B8J1113 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	19.6		105	70-130	10/11/18	10/11/18
Triphenyl phosphate	17.8		94.8	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-15 **Station ID: W011021-02**

Batch: B8J1113 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	18.4		98.3	70-130	10/11/18	10/11/18
Triphenyl phosphate	17.0		90.7	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-16 **Station ID: W011028-01**

Batch: B8J1113 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	19.2		102	70-130	10/11/18	10/11/18
Triphenyl phosphate	18.3		97.5	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-17 **Station ID: W011028-02**

Batch: B8J1113 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	16.8		89.8	70-130	10/11/18	10/11/18
Triphenyl phosphate	16.6		88.6	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-18 **Station ID: W011028-03**

Batch: B8J1113 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	18.0		95.8	70-130	10/11/18	10/11/18
Triphenyl phosphate	17.3		92.3	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-19 **Station ID: W011003-01**

Batch: B8J1113 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	21.5		115	70-130	10/11/18	10/11/18
Triphenyl phosphate	20.0		107	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-20 **Station ID: W011004-01**

Batch: B8J1113 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	19.5		104	70-130	10/11/18	10/11/18
Triphenyl phosphate	18.2		97.2	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

Environmental Protection Agency

Region 6 Laboratory

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Phone:(281)983-2100 Fax:(281)983-2248

Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-21 **Station ID: W011014-02**

Batch: B8J1114 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	18.6		99.2	70-130	10/11/18	10/11/18
Triphenyl phosphate	18.2		96.9	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-22 **Station ID: W011021-01**

Batch: B8J1114 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	21.5		115	70-130	10/11/18	10/11/18
Triphenyl phosphate	19.7		105	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-23 **Station ID: W011021-03**

Batch: B8J1114 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	20.1		107	70-130	10/11/18	10/11/18
Triphenyl phosphate	18.9		101	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-24 **Station ID: W011017-01**

Batch: B8J1114 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	20.4		109	70-130	10/11/18	10/11/18
Triphenyl phosphate	18.9		101	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-25 **Station ID: W011017-02**

Batch: B8J1114 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	17.6		93.8	70-130	10/11/18	10/11/18
Triphenyl phosphate	16.8		89.8	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-26 **Station ID: W011019-01**

Batch: B8J1114 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	18.4		98.0	70-130	10/11/18	10/11/18
Triphenyl phosphate	18.0		96.1	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

Environmental Protection Agency

Region 6 Laboratory

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Phone:(281)983-2100 Fax:(281)983-2248

Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-27 **Station ID: W011019-02**

Batch: B8J1114 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	18.3		97.5	70-130	10/11/18	10/11/18
Triphenyl phosphate	17.4		93.0	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-28 **Station ID: W011007-01**

Batch: B8J1114 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	20.2		108	70-130	10/11/18	10/11/18
Triphenyl phosphate	19.1		102	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-29 **Station ID: W011007-02**

Batch: B8J1114 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	19.8		106	70-130	10/11/18	10/11/18
Triphenyl phosphate	18.4		98.3	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-30 **Station ID: W011007-03**

Batch: B8J1114 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	23.0		123	70-130	10/11/18	10/11/18
Triphenyl phosphate	20.3		108	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

Environmental Protection Agency

Region 6 Laboratory

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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-31 **Station ID: W011005-01**

Batch: B8J1114 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	19.0		101	70-130	10/11/18	10/11/18
Triphenyl phosphate	17.9		95.7	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

Environmental Protection Agency

Region 6 Laboratory

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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-32 **Station ID: W011005-02**

Batch: B8J1114 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	18.4		98.0	70-130	10/11/18	10/11/18
Triphenyl phosphate	18.4		97.9	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

Environmental Protection Agency

Region 6 Laboratory

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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-33 **Station ID: W011022-01**

Batch: B8J1114 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	19.6		105	70-130	10/11/18	10/11/18
Triphenyl phosphate	17.7		94.4	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-34 **Station ID: W011022-02**

Batch: B8J1114 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	18.5		98.5	70-130	10/11/18	10/11/18
Triphenyl phosphate	17.6		94.1	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18

Environmental Protection Agency

Region 6 Laboratory

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Developmental GC-NPD Method for Methylene bis(thiocyanate)

Lab ID: 1810011-35 **Station ID: W011022-03**

Batch: B8J1114 Date Collected: 10/10/18
Sample Type: Liquid Sample Vol: 40ml Sample Qualifiers:

Surrogates

Analyte	Result ug/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Tributyl phosphate	19.1		102	70-130	10/11/18	10/11/18
Triphenyl phosphate	18.1		96.7	70-130	"	"

Targets

Analyte (CAS Number)	Result ug/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed	
Methylene bis(thiocyanate) (6317-18-6)	U		10.0	1	10/11/18	10/11/18	LW

Environmental Protection Agency

Region 6 Laboratory

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Developmental GC-NPD Method for Methylene bis(thiocyanate) - Quality Control

Batch: B8J1113 **Sample Type: Liquid**

Blank (B8J1113-BLK1)

Prepared: 10/11/2018 Analyzed: 10/11/2018

Surrogates

ANALYTE	Result ug/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
Tributyl phosphate	17.2		18.8	91.6	70-130
Triphenyl phosphate	16.5		18.8	88.0	70-130

Targets

ANALYTE	Result ug/L	Analyte Qualifiers	Reporting Limit
Methylene bis(thiocyanate)	U		10.0

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
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Developmental GC-NPD Method for Methylene bis(thiocyanate) - Quality Control

Batch: B8J1113 **Sample Type: Liquid**

LCS (B8J1113-BS1)

Prepared: 10/11/2018 Analyzed: 10/11/2018

Surrogates

ANALYTE	Result ug/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
Tributyl phosphate	17.4		18.8	93.0	70-130
Triphenyl phosphate	16.2		18.8	86.3	70-130

Targets

ANALYTE	Result ug/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Methylene bis(thiocyanate)	9.88		10.0	10.0	98.8	70-130

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
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Developmental GC-NPD Method for Methylene bis(thiocyanate) - Quality Control

Batch: B8J1113 **Sample Type: Liquid**

Matrix Spike (B8J1113-MS1)

Source: 1810011-13 Prepared: 10/11/2018 Analyzed: 10/11/2018

Surrogates

ANALYTE	Result ug/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
Tributyl phosphate	17.6		18.8	93.8	70-130
Triphenyl phosphate	16.4		18.8	87.5	70-130

Targets

ANALYTE	Result ug/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Methylene bis(thiocyanate)	9.90		10.0	10.0		99.0	70-130

Environmental Protection Agency

Region 6 Laboratory

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Developmental GC-NPD Method for Methylene bis(thiocyanate) - Quality Control

Batch: B8J1113 **Sample Type: Liquid**

Matrix Spike Dup (B8J1113-MSD1)

Source: 1810011-13 Prepared: 10/11/2018 Analyzed: 10/11/2018

Surrogates

ANALYTE	Result ug/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
Tributyl phosphate	18.5		18.8	98.7	70-130
Triphenyl phosphate	17.4		18.8	93.0	70-130

Targets

ANALYTE	Result ug/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Methylene bis(thiocyanate)	10.7		10.0	10.0		107	70-130	7.61	30

Batch: B8J1114 **Sample Type: Liquid**

Environmental Protection Agency

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Developmental GC-NPD Method for Methylene bis(thiocyanate) - Quality Control

Batch: B8J1114 **Sample Type: Liquid**

Blank (B8J1114-BLK1)

Prepared: 10/11/2018 Analyzed: 10/11/2018

Surrogates

ANALYTE	Result ug/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
Tributyl phosphate	19.4		18.8	103	70-130
Triphenyl phosphate	18.4		18.8	98.0	70-130

Targets

ANALYTE	Result ug/L	Analyte Qualifiers	Reporting Limit
Methylene bis(thiocyanate)	U		10.0

Environmental Protection Agency

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Developmental GC-NPD Method for Methylene bis(thiocyanate) - Quality Control

Batch: B8J1114 **Sample Type: Liquid**

LCS (B8J1114-BS1)

Prepared: 10/11/2018 Analyzed: 10/11/2018

Surrogates

ANALYTE	Result ug/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
Tributyl phosphate	20.6		18.8	110	70-130
Triphenyl phosphate	19.3		18.8	103	70-130

Targets

ANALYTE	Result ug/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Methylene bis(thiocyanate)	12.6		10.0	10.0	126	70-130

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Developmental GC-NPD Method for Methylene bis(thiocyanate) - Quality Control

Batch: B8J1114 **Sample Type: Liquid**

Matrix Spike (B8J1114-MS1)

Source: 1810011-26 Prepared: 10/11/2018 Analyzed: 10/11/2018

Surrogates

ANALYTE	Result ug/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
Tributyl phosphate	21.2		18.8	113	70-130
Triphenyl phosphate	19.9		18.8	106	70-130

Targets

ANALYTE	Result ug/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Methylene bis(thiocyanate)	13.9		10.0	10.0		139 #	70-130

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Developmental GC-NPD Method for Methylene bis(thiocyanate) - Quality Control

Batch: B8J1114 **Sample Type: Liquid**

Matrix Spike Dup (B8J1114-MSD1)

Source: 1810011-26 Prepared: 10/11/2018 Analyzed: 10/11/2018

Surrogates

ANALYTE	Result ug/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
Tributyl phosphate	22.1		18.8	118	70-130
Triphenyl phosphate	20.3		18.8	109	70-130

Targets

ANALYTE	Result ug/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Methylene bis(thiocyanate)	14.3		10.0	10.0		143 #	70-130	2.60	30

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SURROGATE SUMMARY REPORT

P/P GC-NPD - Methylene bis(thiocyanate)

Liquid

LAB NUMBER	TBP	TPP
1810011-01	106	97.3
1810011-02	106	96.3
1810011-03	97.7	90.6
1810011-04	103	92.0
1810011-05	100	93.0
1810011-06	93.3	95.7
1810011-07	104	93.7
1810011-08	95.4	93.5
1810011-09	99.2	93.6
1810011-10	89.7	87.2
1810011-11	115	107
1810011-12	105	95.7
1810011-13	89.7	88.5
1810011-14	105	94.8
1810011-15	98.3	90.7
1810011-16	102	97.5
1810011-17	89.8	88.6
1810011-18	95.8	92.3
1810011-19	115	107
1810011-20	104	97.2
1810011-21	99.2	96.9
1810011-22	115	105
1810011-23	107	101
1810011-24	109	101
1810011-25	93.8	89.8
1810011-26	98.0	96.1
1810011-27	97.5	93.0
1810011-28	108	102
1810011-29	106	98.3
1810011-30	123	108
1810011-31	101	95.7
1810011-32	98.0	97.9
1810011-33	105	94.4
1810011-34	98.5	94.1
1810011-35	102	96.7
B8J1113-BLK1	91.6	88.0

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SURROGATE SUMMARY REPORT

P/P GC-NPD - Methylene bis(thiocyanate)

Liquid

LAB NUMBER	TBP	TPP
B8J1113-BS1	93.0	86.3
B8J1113-MS1	93.8	87.5
B8J1113-MSD1	98.7	93.0
B8J1114-BLK1	103	98.0
B8J1114-BS1	110	103
B8J1114-MS1	113	106
B8J1114-MSD1	118	109

			QC LIMITS
TBP	=	Tributyl phosphate	70 - 130
TPP	=	Triphenyl phosphate	70 - 130

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Qualifiers

A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
U	The analyte was not detected at or above the reporting limit.

Abbreviations and Symbols

ABN	Acid Base Neutrals (Semivolatile Compounds)
AES	Atomic Emission Spectrometer
BS	Blank Spike
CVAA	Cold Vapor Atomic Absorption
DCB	Decachlorobiphenyl
ECD	Electron Capture Detector
GC	Gas Chromatograph
ICP	Inductively Coupled Plasma
ISTD	Internal Standard
LCS	Laboratory Control Sample
MS	Mass Spectrometer
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NA	Not Applicable
NPD	Nitrogen Phosphorous Detector
NR	Not Reported
PCB	Polychlorinatedbiphenyl
RL	Reporting Limit
RT	Retention Time
RPD	Relative Percent Difference

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TCLP	Toxicity Characteristic Leaching Procedure
TCMX	Tetrachloro-meta-xylene
VOA	Volatile Organic Analysis
#	Out of QC limits
>LR	The result was greater than the linear range.

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

Chain of Custody Record

W 011010

TCEQ

Send to:
☐ Houston Laboratory
Phone: 281-457-5229
☒ EPA Houston Lab

Region: 5 Organization #: _____ PCA Code: _____ Program: PWS

Sampler Name: Cara C Fisher (print) Sampler Signature: Cara C Fisher

Sampler phone number: _____ E-Mail ID: _____

LAB USE ONLY	Sample ID	Sampling Date	Sampling Time	Comp	Grab	Matrix (L = Liquid, S = Solid)	No. of Containers	Analyses Requested: BOD	CBOD	TSS	NH_3-N	E. Coli	MBT	MBT				Remarks
	Containers*												A	A				
	Preservatives**												1	1,3,6				
	-01	10/10/18	2:15p		✓	L	2						1	1				WS CR 1538 Lackey
	-02																	
	-03																	
	-04																	
	-05																	
	-06																	
	-07																	
	-08																	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Cara Fisher	10/10/18	300p	Robert Kim	10/10/18	3:00
Robert Kim	10/10/18	1700	Henry M. White	10/10/2018	1700
Henry M. White	10/10/2018	1945	[illegible]	10/10/18	1945

Shipper Name: _____ Shipper Number: _____

*Containers: P = Plastic G = Clear Glass A = Amber Glass V = VOA Vials O = Other _____

**Preservatives: 1 = Ice 2 = H_2SO_4 3 = HCl 4 = HNO_3 5 = $Na_2S_2O_3$ 6 = Other Na_2SO_3

FOR LAB USE ONLY

Received on Ice: ☒ Y ☐ N

Temperature: 3 °C

Preserved: ☒ Y ☐ N

COC Seal: ☒ Y ☐ N

Seals Intact: ☒ Y ☐ N

TCEQ-20649 (Rev. 5/13) White (Original) - Lab Yellow - Lab Pink - Collector Copy

ED_002733B_00007522-00053

Chain of Custody Record

W 011023

TCEQ

Send to:
☐ Houston Laboratory
Phone: 281-457-5229
X EPA HOUSTON LAB

Region: 5 Organization #: _____ PCA Code: _____ Program: PWS

Sampler Name: WILLIAM RIEDEL (print) Sampler Signature: [signature]

Sampler phone number: _____ E-Mail ID: _____

LAB USE ONLY	Sample ID	Sampling Date	Sampling Time	Comp	Grab	Matrix (L = Liquid, S = Solid)	No. of Containers	BOD	CBOD	TSS	NH_3-N	E Coli	MBT	MBT				Remarks
	Containers*												A	A				
	Preservatives**												1	1,3,4				
	-01	10/10 2018	1325		✓	L	2						✓	✓				HB 33175 US 69
	-02	10/10 2018	1345		✓	L	2						✓	✓				HB 33089 US69
	-03	10/10 2018	1405		✓	L	2						✓	✓				TAP GUINN GREENHOUSE
	-04																	
	-05																	
	-06																	
	-07																	
	-08																	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	10/10/18	14:30	[signature]	10/10/18	14:30
Robert King	10/10/18	1700	Henry M. White	10/10/2018	1700
Henry M. White	10/10/2018	1945	[signature]	10/10/18	1945

Shipper Name: WILLIAM RIEDEL Shipper Number: _____

*Containers: P = Plastic G = Clear Glass A = Amber Glass V = VOA Vials O = Other _____

**Preservatives: 1 = Ice 2 = H_2SO_4 3 = HCl 4 = HNO_3 5 = $Na_2S_2O_3$ 6 = Other Na_2SO_3 SODIUM SULFITE

FOR LAB USE ONLY

Received on Ice: X Y ☐ N

Temperature: 2 °C

Preserved: X Y ☐ N

COC Seal: X Y ☐ N

Seals Intact: X Y ☐ N

TCEQ-20649 (Rev. 6/13) White (Original) - Lab Yellow - Lab Pink - Collector Copy

ED_002733B_00007522-00054

Chain of Custody Record

W 011013

TCEQ

Send to:
☐ Houston Laboratory
Phone: 281-457-5229
☒ GRA Houston
IAD

Region: 5 Organization #: _____ PCA Code: _____ Program: BWS

Sampler Name: Cara C. Fisher (print) Sampler Signature: Cara C. F

Sampler phone number: _____ E-Mail ID: _____

LAB USE ONLY	Sample ID	Sampling Date	Sampling Time	Comp	Grab	Matrix (L = Liquid, S = Solid)	No. of Containers	BOD	CBOD	TSS	NH_3-N	E. Coli	MBT	MBT				Remarks
	Containers*												A	A				
	Preservatives**												1	1,6				
	-01	10/10/18	1:30p		✓	L	2						1	1				505 CR 1538 Mobley
	-02	10/10/18	1:45p		✓	L	2						1	1				619 CR 1530 Patty Little
	-03	10/10/18	2:00p		✓	L	2						1	1				617 CR 1538 Joyce Little
	-04																	
	-05																	
	-06																	
	-07																	
	-08																	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Cara C. Fisher TCEQ	10/10/18	3:00p	[illegible]	10/10/18	3:00
[illegible]	10/10/18	1700	Henry M. Wise	10/10/2018	1700
Henry M. Wise	10/10/2018	1945	[illegible]	10/10/18	1945

Shipper Name: _____ Shipper Number: _____

*Containers: P = Plastic G = Clear Glass A = Amber Glass V = VOA Vials O = Other _____

**Preservatives: 1 = Ice 2 = H_2SO_4 3 = HCl 4 = HNO_3 5 = $Na_2S_2O_3$ 6 = Other Na_2SO_3

FOR LAB USE ONLY

Received on Ice: ☒ Y ☐ N

Temperature: 2 °C

Preserved: ☒ Y ☐ N

COC Seal: ☒ Y ☐ N

Seals Intact: ☒ Y ☐ N

TCEQ-20649 (Rev. 6/13) White (Original) - Lab Yellow - Lab Pink - Collector Copy

ED_002733B_00007522-00055

Chain of Custody Record

W 011003

TCEQ

Send to:
☐ Houston Laboratory
Phone: 281-457-5229
☒ EPA Houston Laboratory

Region: 5 Organization #: _____ PCA Code: _____ Program: PWS

Sampler Name: Jennifer Smith (print) Sampler Signature: Jennifer Smith

Sampler phone number: 903 535 5104 E-Mail ID: jennifer.smith@tceq.texas.gov

LAB USE ONLY	Sample ID	Sampling Date	Sampling Time	Comp	Grab	Matrix (L = Liquid, S = Solid)	No. of Containers	Analyses Requested: BOD	CBOD	TSS	NH_3-N	E. Coli	MBT	MBT				Remarks
	Containers*												A	A				
	Preservatives**												1	1,3,6				
	-01	10/10/18	10:25		✓	L	2						X	X				T361 1409 OR 1516 (FV)
	-02	10/10/18	10:49		✓	L	2						X	X				T352 1392 OR 1544 (FV)
	-03	10/10/18	11:17		✓	L	2						X	X				T353 1152 OR 1512 residual
	-04																	
	-05																	
	-06																	
	-07																	
	-08																	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Jennifer Smith	10/10/18	14:10	Robert King	10/10/18	14:10
Robert K	10/10/18	1700	Henry M. Rise	10/10/2018	1700
Henry M. Rise	10/10/2018	1945	[illegible]	10/10/18	1945

Shipper Name: _____ Shipper Number: _____

*Containers: P = Plastic G = Clear Glass A = Amber Glass V = VOA Vials O = Other _____

**Preservatives: 1 = Ice 2 = H_2SO_4 3 = HCl 4 = HNO_3 5 = $Na_2S_2O_3$ 6 = Other Na_2SO_3

FOR LAB USE ONLY

Received on Ice: ☒ Y ☐ N

Temperature: 2 °C

Preserved: ☒ Y ☐ N

COC Seal: ☒ Y ☐ N

Seals Intact: ☒ Y ☐ N

TCEQ-20649 (Rev. 6/13) White (Original) - Lab Yellow - Lab Pink - Collector Copy

ED_002733B_00007522-00056

Chain of Custody Record

W 011009

TCEQ

Send to:
☐ Houston Laboratory
Phone: 281-457-5229
☒ EPA Houston Laboratory

Region: 5 Organization #: _____ PCA Code: _____ Program: DWS

Sampler Name: Robert Tanner (print) Sampler Signature: [signature]

Sampler phone number: _____ E-Mail ID: _____

LAB USE ONLY	Sample ID	Sampling Date	Sampling Time	Comp	Grab	Matrix (L = Liquid, S = Solid)	No. of Containers	Analyses Requested: BOD	CBOD	TSS	NH_3-N	E. Coli	MBT	MBT				Remarks
	Containers*												A	A				
	Preservatives**												1	1, 3,6				
	-01	10/10/18	1316hrs		✓	L	2						✓	✓				T4-56 33871 Hwy 69 North
	-02	10/10/18	1338hrs		✓	L	2						✓	✓				T4-57 33869 Hwy 69 North
	-03	10/10/18	1349		✓	L	2						✓	✓				T4-58 33857 Hwy 69 North
	-04																	
	-05																	
	-06																	
	-07																	
	-08																	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	10/10/18	2:15	Robert K	10/10/18	2:15
Robert K	10/10/18	1700	Henry M. Rose	10/10/2018	1700
Henry M. Rose	10/10/2018	1945	[signature]	10/10/18	1945

Shipper Name: _____ Shipper Number: _____

*Containers: P = Plastic G = Clear Glass A = Amber Glass V = VOA Vials O = Other _____

**Preservatives: 1 = Ice 2 = H_2SO_4 3 = HCl 4 = HNO_3 5 = $Na_2S_2O_3$ 6 = Other $NaOH$

FOR LAB USE ONLY

Received on Ice: ☒ Y ☐ N

Temperature: 2 °C

Preserved: ☒ Y ☐ N

COC Seal: ☒ Y ☐ N

Seals Intact: ☒ Y ☐ N

TCEQ-20649 (Rev. 6/13) White (Original) - Lab Yellow - Lab Pink - Collector Copy

ED_002733B_00007522-00057

Chain of Custody Record

№ 011004

TCEQ

Send to:
☐ Houston Laboratory
Phone: 281-457-5229
☒ EPA Lab
Houston

Region: 5 Organization #: _____ PCA Code: _____ Program: DWS

Sampler Name: Patrick Conner (print) Sampler Signature: [signature]

Sampler phone number: (903) 535-5168 E-Mail ID: _____

LAB USE ONLY	Sample ID	Sampling Date	Sampling Time	Comp	Grab	Matrix (L = Liquid, S = Solid)	No. of Containers	Analyses Requested: BOD	CBOD	TSS	NH_3-N	E. Coli	MBT	MBT				Remarks
	Containers*												A	A				
	Preservatives**												1	4,6				
	-01	10/10/18	1128hrs		✓	L	2						✓	✓				T4-53 9519 FM 769
	-02	10/10/18	1155hr		✓	L	2						✓	✓				T4-54 415 CR 1405
	-03	10/10/18	1155hr		✓	L	2						✓	✓				T4-54 Duplicate 415 CR 1405
	-04																	
	-05																	
	-06																	
	-07																	
	-08																	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	10/10/18	2:15	Robert King	10/10/18	2:15
Robert King	10/10/18	1700	Henry M Wise	10/10/18	1700
Henry M Wise	10/10/2018	1945	[signature]	10/10/18	1945

Shipper Name: _____ Shipper Number: _____

*Containers: P = Plastic G = Clear Glass A = Amber Glass V = VOA Vials O = Other _____

**Preservatives: 1 = Ice 2 = H_2SO_4 3 = HCl 4 = HNO_3 5 = $Na_2S_2O_3$ 6 = Other Na_2SO_3

FOR LAB USE ONLY

Received on Ice: ☒ Y ☐ N

Temperature: 2 °C

Preserved: ☒ Y ☐ N

COC Seal: ☒ Y ☐ N

Seals Intact: ☒ Y ☐ N

TCEQ-20649 (Rev. 6/13) White (Original) - Lab Yellow - Lab Pink - Collector Copy

ED_002733B_00007522-00058

7

Chain of Custody Record

W 011014

TCEQ

Send to:
☐ Houston Laboratory
Phone: 281-457-5229
☒ EPA Laboratory Houston

Region: 5 Organization #: _____ PCA Code: _____ Program: PWS

Sampler Name: Alex Laird (print) Sampler Signature: [signature]

Sampler phone number: _____ E-Mail ID: _____

LAB USE ONLY	Sample ID	Sampling Date	Sampling Time	Comp	Grab	Matrix (L = Liquid, S = Solid)	No. of Containers	Analyses Requested: BOD	CBOD	TSS	NH_3-N	E. Coli	MBT	MBT				Remarks
	Containers*												A	A				
	Preservatives**												1	1,3b				
	-01	10/10	1120		✓	L	2						1	1				T554 1645UR3104
	-02	10/10	1200		✓	L	2						1	1				T555 1600UR3104
	-03																	
	-04																	
	-05																	
	-06																	
	-07																	
	-08																	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Alex Laird [signature]	10/10/18	1415	Robert S	10/10/18	1415
Robert S	10/10/18	1700	Henry M. Wise	10/10/2018	1700
Henry M. Wise	10/10/2018	1945	[signature]	10/10/18	1945

Shipper Name: Alex Laird Shipper Number: _____

*Containers: P = Plastic G = Clear Glass A = Amber Glass V = VOA Vials O = Other _____

**Preservatives: 1 = Ice 2 = H_2SO_4 3 = HCl 4 = HNO_3 5 = $Na_2S_2O_3$ 6 = Other Sodium Sulfite

FOR LAB USE ONLY

Received on Ice: ☒ Y ☐ N

Temperature: 2 °C

Preserved: ☒ Y ☐ N

COC Seal: ☒ Y ☐ N

Seals Intact: ☒ Y ☐ N

TCEQ-20649 (Rev. 6/13) White (Original) - Lab Yellow - Lab Pink - Collector Copy

ED_002733B_00007522-00059

Chain of Custody Record

W 011021

TCEQ

Send to:
☐ Houston Laboratory
Phone: 281-457-5229
☑ EPA Houston Lab

Region: 5 Organization #: _____ PCA Code: _____ Program: PWS

Sampler Name: Patrick Conner (print) Sampler Signature: [signature]

Sampler phone number: (903) 535-5168 E-Mail ID: _____

LAB USE ONLY	Sample ID	Sampling Date	Sampling Time	Comp	Grab	Matrix (L = Liquid, S = Solid)	No. of Containers	Analyses Requested: BOD	CBOD	TSS	NH_3-N	E. Coli	MBT	MBT				Remarks
	Containers*												A	A				
	Preservatives**												1	1,3,6				
	-01	10/10/18	1024hrs		✓	L	2						✓	✓				T4-S1 709 CR 1519
	-02	10/10/18	1048hrs		✓	L	2						✓	✓				T4-S3 282 CR 1404
	-03	10/10/18	1106hrs		✓	L	2						✓	✓				T4-S2 290 CR 1423
	-04																	
	-05																	
	-06																	
	-07																	
	-08																	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	10/10/18	2:15	Robert K	10/10/18	2:15
Robert K	10/10/18	1700	Henry M. Wise	10/10/2018	1700
Henry M. Wise	10/10/2018		[signature]	10/10/18	1945

Shipper Name: _____ Shipper Number: _____

*Containers: P = Plastic G = Clear Glass A = Amber Glass V = VOA Vials O = Other _____

**Preservatives: 1 = Ice 2 = H_2SO_4 3 = HCl 4 = HNO_3 5 = $Na_2S_2O_3$ 6 = Other Na_2SO_3

FOR LAB USE ONLY

Received on Ice: ☒ Y ☐ N

Temperature: 3 °C

Preserved: ☒ Y ☐ N

COC Seal: ☒ Y ☐ N

Seals Intact: ☒ Y ☐ N

TCEQ-20649 (Rev. 5/13) White (Original) - Lab Yellow - Lab Pink - Collector Copy

ED_002733B_00007522-00060

9

Chain of Custody Record

W 011028

TCEQ

Send to:
☐ Houston Laboratory
Phone: 281-457-5229
☒ EPA Houston Laboratory

Region: 5 Organization #: PCA Code: Program: PWS
Sampler Name: Alex Laird (print) Sampler Signature: Alex Laird
Sampler phone number: E-Mail ID:

LAB USE ONLY	Sample ID	Sampling Date	Sampling Time	Comp	Grab	Matrix (L = Liquid, S = Solid)	No. of Containers	BOD	CBOD	TSS	NH_3-N	E Coli	MBT	MBT				Remarks
	Containers*												A	A				
	Preservatives**												1	1,3,6				
	-01	10/10	10:25		✓	L	2						1	1				T5S1 3725WS69N
	-02	10/10	12:23		✓	L	2						1	1				~~T5S2~~ T5-S2 1520CR1616
	-03	10/10	11:04		✓	L	2						1	1				T5S3 1555CR1629
	-04																	
	-05																	
	-06																	
	-07																	
	-08																	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Alex Laird	10/10/18	1415	Robert K	10/10/18	1415
Robert K	10/10/18	1700	Henry M. Mize	10/10/2018	1700
Henry M. Mize	10/10/2018	1945	[illegible]	10/10/18	1945

Shipper Name: Alex Laird Shipper Number:

*Containers: P = Plastic G = Clear Glass A = Amber Glass V = VOA Vials O = Other
**Preservatives: 1 = Ice 2 = H_2SO_4 3 = HCl 4 = HNO_3 5 = $Na_2S_2O_3$ 6 = Other Sodium Sulphite

FOR LAB USE ONLY

Received on Ice: ☒ Y ☐ N
Temperature: 3 °C
Preserved: ☒ Y ☐ N
COC Seal: ☒ Y ☐ N
Seals Intact: ☒ Y ☐ N

TCEQ-20649 (Rev. 6/13) White (Original) - Lab Yellow - Lab Pink - Collector Copy

ED_002733B_00007522-00061

Chain of Custody Record

W 011017

TCEQ

Send to:
☐ Houston Laboratory
Phone: 281-457-5229
☒ EPA Houston Laboratory

Region: 5 Organization #: _____ PCA Code: _____ Program: PWS

Sampler Name: Angela Hicks (print) Sampler Signature: Angela Hicks

Sampler phone number: _____ E-Mail ID: _____

LAB USE ONLY	Sample ID	Sampling Date	Sampling Time	Comp	Grab	Matrix (L = Liquid, S = Solid)	No. of Containers	Analyses Requested: BOD	CBOD	TSS	NH_3-N	E Coli	MBT	MBT				Remarks
							Containers*						A	A				
							Preservatives**						1	1,3,6				
	-01	10/10/18	11:10 AM		✓	L	2						1	1				T2-S3 2085 CR 1514
	-02	10/10/18	11:29 AM		✓	L	2						1	1				T2-S4 911 CR 1514
	-03																	
	-04																	
	-05																	
	-06																	
	-07																	
	-08																	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Angela Hicks	10/10/18	1:59 pm	[illegible]	10/10/18	1:59 pm
Robert King	10/10/18	1700	Henry M. Wise	10/10/2018	1700
Henry M. Wise	10/10/2018	1945	[illegible]	10/10/18	1945

Shipper Name: Angela Hicks Shipper Number: _____

*Containers: P = Plastic G = Clear Glass A = Amber Glass V = VOA Vials O = Other _____

**Preservatives: 1 = Ice 2 = H_2SO_4 3 = HCl 4 = HNO_3 5 = $Na_2S_2O_3$ 6 = Other Na_2SO_3 Sodium sulfite

FOR LAB USE ONLY

Received on Ice: ☒ Y ☐ N

Temperature: 4 °C

Preserved: ☒ Y ☐ N

COC Seal: ☒ Y ☐ N

Seals Intact: ☒ Y ☐ N

TCEQ-20649 (Rev. 6/13) White (Original) - Lab Yellow - Lab Pink - Collector Copy

ED_002733B_00007522-00062

Chain of Custody Record

W 011019

Send to:
☐ Houston Laboratory
Phone: 281-457-5229
☒ EPA Houston Laboratory

Region: 5 Organization #: _____ PCA Code: _____ Program: GWS

Sampler Name: Angela Hicks (print) Sampler Signature: Angela Hicks

Sampler phone number: _____ E-Mail ID: _____

LAB USE ONLY	Sample ID	Sampling Date	Sampling Time	Comp	Grab	Matrix (L = Liquid, S = Solid)	No. of Containers	Analyses Requested: BOD	CBOD	TSS	NH_3-N	E. Coli	MBT	MBT				Remarks
	Containers*												A	A				
	Preservatives**												1	1,3,6				
	-01	10/10/18	10:05 AM		✓	L	4						2	2				T2 - S1 2070 CR 1535
	-02	10/10/18	10:35 AM		✓	L	2						1 ~~2~~	1 ~~2~~				T2 - S2 2053 CR 1513
	-03																	
	-04																	
	-05																	
	-06																	
	-07																	
	-08																	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Angela Hicks	10/10/18	1:51pm	[illegible]	~~10/10/18~~	~~1:51pm~~
Robert King	10/10	1700	Henry M. Wise	10/10/2018	1700
Henry M. Wise	10/10/2018	1945	[illegible]	10/10/18	1945

Shipper Name: Angela Hicks Shipper Number: _____

*Containers: P = Plastic G = Clear Glass A = Amber Glass V = VOA Vials O = Other _____

**Preservatives: 1 = Ice 2 = H_2SO_4 3 = HCl 4 = HNO_3 5 = $Na_2S_2O_3$ 6 = Other Na_2SO_3 Sodium Sulfite

FOR LAB USE ONLY

Received on Ice: ☒ Y ☐ N

Temperature: 2 °C

Preserved: ☒ Y ☐ N

COC Seal: ☒ Y ☐ N

Seals Intact: ☒ Y ☐ N

TCEQ-20649 (Rev. 6/13) White (Original) - Lab Yellow - Lab Pink - Collector Copy

ED_002733B_00007522-00063

Chain of Custody Record

W 011007

TCEQ

Send to:
☐ Houston Laboratory
Phone: 281-457-5229
X EPA HOUSTON LAB.

Region: 5 Organization #: _____ PCA Code: _____ Program: PWS

Sampler Name: WILLIAM RIEDEL (print) Sampler Signature: [signature]

Sampler phone number: _____ E-Mail ID: _____

LAB USE ONLY	Sample ID	Sampling Date	Sampling Time	Comp	Grab	Matrix (L = Liquid, S = Solid)	No. of Containers	Analyses Requested: BOD	CBOD	TSS	NH_3-N	E. Coli	MBT	MBT				Remarks
	Containers*												A	A				
	Preservatives**												1	1,3,6				
	-01	10/10 2018	1106 AM		✓	L	2						✓	✓				TI - 34 FV 33871 US 69S
	-02	10/10 2018	1130 AM		✓	L	2						✓	✓				TI - 35 1451 CR 1615
	-03	10/10 2018	1030 AM		✓	L	2						✓	✓				BIRDWELL 4400 HWY 204 E
	-04																	
	-05																	
	-06																	
	-07																	
	-08																	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	10/10 2018	14:30	Robert K	10/10/18	14:30
Robert King	10/10/18	1700	Henry M. Wise	10/10/2018	1700
Henry M. Wise	10/10/2018	1945	[signature]	10/10/18	1945

Shipper Name: WILLIAM RIEDEL Shipper Number: _____

*Containers: P = Plastic G = Clear Glass A = Amber Glass V = VOA Vials O = Other _____

**Preservatives: 1 = Ice 2 = H_2SO_4 3 = HCl 4 = HNO_3 5 = $Na_2S_2O_3$ 6 = Other Na_2SO_3 SODIUM SULFITE

FOR LAB USE ONLY

Received on Ice: X Y ☐ N

Temperature: 3 °C

Preserved: X Y ☐ N

COC Seal: X Y ☐ N

Seals Intact: X Y ☐ N

TCEQ-20649 (Rev. 6/13) White (Original) - Lab Yellow - Lab Pink - Collector Copy

ED_002733B_00007522-00064

Chain of Custody Record

W 011005

TCEQ

Send to:
☐ Houston Laboratory
Phone: 281-457-5229
X EPA Houston Laboratory

Region: 5 Organization #: _____ PCA Code: _____ Program: PWS

Sampler Name: Jennifer Smith Sampler Signature: Jennifer Smith

Sampler phone number: 903 535-5104 E-Mail ID: Jennifer.smith@tceq.texas.gov

LAB USE ONLY	Sample ID	Sampling Date	Sampling Time	Comp	Grab	Matrix (L = Liquid, S = Solid)	No. of Containers	Analyses Requested: BOD	CBOD	TSS	NH_3-N	E. Coli	MBT	MBT				Remarks
	Containers*											A	A	A				
	Preservatives**												1	1,3,6				
	-01	10/10/18	11:40 am		✓	L	2						X	X				T3 S4 presence 302 OR 1530
	-02	10/10/18	12:07 pm		✓	L	2						X	X				T3 S5 1440 OR 1508
	-03																	
	-04																	
	-05																	
	-06																	
	-07																	
	-08																	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Jennifer Smith	10/10/18	14:10	Robert K	10/10/18	14:10
Robert K	10/10/18	1700	Henry M. Wise	10/10/2018	1700
Henry M. Wise	10/10/2018	1945	[illegible]	10/10/18	1945

Shipper Name: _____ Shipper Number: _____

*Containers: P = Plastic G = Clear Glass A = Amber Glass V = VOA Vials O = Other _____

**Preservatives: 1 = Ice 2 = H_2SO_4 3 = HCl 4 = HNO_3 5 = $Na_2S_2O_3$ 6 = Other Na_2SO_3

FOR LAB USE ONLY

Received on Ice: ☑ Y ☐ N

Temperature: 3 °C

Preserved: ☐ Y ☐ N

COC Seal: ☐ Y ☐ N

Seals Intact: ☐ Y ☐ N

TCEQ-20649 (Rev. 6/13) White (Original) - Lab Yellow - Lab Pink - Collector Copy

ED_002733B_00007522-00065

Chain of Custody Record

W 011022

TCEQ

Send to:
☐ Houston Laboratory
Phone: 281-457-5229
☐ _____

Region: 5 Organization #: _____ PCA Code: _____ Program: PWS

Sampler Name: WILLIAM RIEDEL (print) Sampler Signature: [signature]

Sampler phone number: _____ E-Mail ID: _____

LAB USE ONLY	Sample ID	Sampling Date	Sampling Time	Comp	Grab	Matrix (L = Liquid, S = Solid)	No. of Containers	BOD	CBOD	TSS	NH_3-N	E Coli	MBT	MBT				Remarks
	Containers*												4	4				
	Preservatives**												1	1,3,6				
	-01	10/10 2018	1005 AM		✓	L	2						1	1				T1-S1 FV 615 CR 1538
	-02	10/10 2018	1025 AM		✓	L	2						1	1				T1-S2 FV 33089 US 69S
	-03	10/10 2018	10:50 AM		✓	L	2						1	1				T1-S3 Hose Bib 34052 US 69N
	-04																	
	-05																	
	-06																	
	-07																	
	-08																	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	10/10 2018	1430	Robert [illegible]	10/10/18	1430
Robert [illegible]	10/10/18	1700	Henry M. Wise	10/10/2018	1700
Henry M. Wise	10/10/2018	1945	[signature]	10/10/18	1945

Shipper Name: WILLIAM RIEDEL Shipper Number: _____

*Containers: P = Plastic G = Clear Glass A = Amber Glass V = VOA Vials O = Other _____

**Preservatives: 1 = Ice 2 = H_2SO_4 3 = HCL 4 = HNO_3 5 = $Na_2S_2O_3$ 6 = Other Na_2SO_3 SODIUM SULFITE

FOR LAB USE ONLY

Received on Ice: X Y ☐ N

Temperature: 13 °C

Preserved: X Y ☐ N

COC Seal: X Y ☐ N

Seals Intact: X Y ☐ N

TCEQ-20649 (Rev. 6/13) White (Original) - Lab Yellow - Lab Pink - Collector Copy

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