

Drinking Water Sample Results

Attached are the sample results for the City of Port Neches and Groves. No analytes were detected above the Texas Risk Reduction Program (TRRP) Tier 1 residential groundwater ingestion protective concentration levels (PCLs) in any of the six drinking water samples:

W012074-01 City of Port Neches Entry Point – volatiles by EPA Method 524.2
W012074-02 City of Groves Entry Point - volatiles by EPA Method 524.2
W012074-03 field blank sample at Port Neches - volatiles by EPA Method 524.2
W012074-04 field blank sample at Groves - volatiles by EPA Method 524.2
W012074-05 TPH at Port Neches -TPH by Method TX1005
W012074-06 TPH at Groves - TPH by Method TX1005

One sample (W012074-05; TPH at the City of Groves) analyzed for total petroleum hydrocarbons (TPH) showed a detection of TPH C6-C12 at 0.383 mg/L, but it was J flagged as an estimated value. The detected level is lower than the TRRP Tier 1 residential groundwater ingestion PCL (0.98 mg/L).

There were six water samples in total collected between 3:37 pm 12/3/2019 and 11:45 am 12/4/2019. The four samples tested by EPA 524.2 method showed that none of the 23 compounds exhibited any level above the sample detection limit.

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 19120368

Date: 12/9/2019

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count
J	Estimation. Below calibration range but above MDL		

Qualifier Definition



LABORATORY TEST RESULTS

Job ID : 19120368

Date 12/9/2019

Client Name: TCEQ Attn: Paige Pritchard
 Project Name: W012074 / Reg. 10, Org. #4210, PCA Code. 04100 95901, Program: Drinking Water

Client Sample ID: W012074-01 Job Sample ID: 19120368.01
 Date Collected: 12/04/19 Sample Matrix: Drinking Water
 Time Collected: 10:40 % Moisture
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	MLQ	Q	Date Time	Analyst
EPA 524.2									
	1,1,1-Trichloroethane	<0.0004	mg/L	1.00	0.0004	0.001		12/06/19 12:57	RT
	1,1,2-Trichloroethane	<0.0004	mg/L	1.00	0.0004	0.001		12/06/19 12:57	RT
	1,1-Dichloroethylene	<0.0006	mg/L	1.00	0.0006	0.001		12/06/19 12:57	RT
	1,2,4-Trichlorobenzene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 12:57	RT
	1,2-Dichlorobenzene	<0.0004	mg/L	1.00	0.0004	0.001		12/06/19 12:57	RT
	1,2-Dichloroethane	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 12:57	RT
	1,2-Dichloropropane	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 12:57	RT
	1,4-Dichlorobenzene	<0.0003	mg/L	1.00	0.0003	0.001		12/06/19 12:57	RT
	Benzene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 12:57	RT
	Carbon tetrachloride	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 12:57	RT
	Chlorobenzene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 12:57	RT
	cis-1,2-Dichloroethylene	<0.0007	mg/L	1.00	0.0007	0.001		12/06/19 12:57	RT
	Ethylbenzene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 12:57	RT
	m- & p-Xylenes	<0.0005	mg/L	1.00	0.0005	0.002		12/06/19 12:57	RT
	Methylene chloride	<0.0005	mg/L	1.00	0.0005	0.001		12/06/19 12:57	RT
	o-Xylene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 12:57	RT
	Styrene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 12:57	RT
	Tetrachloroethylene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 12:57	RT
	Toluene	<0.0001	mg/L	1.00	0.0001	0.001		12/06/19 12:57	RT
	trans-1,2-Dichloroethylene	<0.0003	mg/L	1.00	0.0003	0.001		12/06/19 12:57	RT
	Trichloroethylene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 12:57	RT
	Vinyl Chloride	<0.0005	mg/L	1.00	0.0005	0.001		12/06/19 12:57	RT
	Xylenes	<0.0005	mg/L	1.00	0.0005	0.003		12/06/19 12:57	RT
	p-Bromofluorobenzene(surr)	101	%	1.00		70-130		12/06/19 12:57	RT
	1,2-Dichlorobenzene-d4(surr)	92.2	%	1.00		70-130		12/06/19 12:57	RT



LABORATORY TEST RESULTS

Job ID : 19120368

Date 12/9/2019

Client Name: TCEQ Attn: Paige Pritchard
 Project Name: W012074 / Reg. 10, Org. #4210, PCA Code. 04100 95901, Program: Drinking Water

Client Sample ID: W012074-02 Job Sample ID: 19120368.02
 Date Collected: 12/04/19 Sample Matrix: Drinking Water
 Time Collected: 11:35 % Moisture
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	MLQ	Q	Date Time	Analyst
EPA 524.2									
	1,1,1-Trichloroethane	<0.0004	mg/L	1.00	0.0004	0.001		12/06/19 01:27	RT
	1,1,2-Trichloroethane	<0.0004	mg/L	1.00	0.0004	0.001		12/06/19 01:27	RT
	1,1-Dichloroethylene	<0.0006	mg/L	1.00	0.0006	0.001		12/06/19 01:27	RT
	1,2,4-Trichlorobenzene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 01:27	RT
	1,2-Dichlorobenzene	<0.0004	mg/L	1.00	0.0004	0.001		12/06/19 01:27	RT
	1,2-Dichloroethane	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 01:27	RT
	1,2-Dichloropropane	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 01:27	RT
	1,4-Dichlorobenzene	<0.0003	mg/L	1.00	0.0003	0.001		12/06/19 01:27	RT
	Benzene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 01:27	RT
	Carbon tetrachloride	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 01:27	RT
	Chlorobenzene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 01:27	RT
	cis-1,2-Dichloroethylene	<0.0007	mg/L	1.00	0.0007	0.001		12/06/19 01:27	RT
	Ethylbenzene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 01:27	RT
	m- & p-Xylenes	<0.0005	mg/L	1.00	0.0005	0.002		12/06/19 01:27	RT
	Methylene chloride	<0.0005	mg/L	1.00	0.0005	0.001		12/06/19 01:27	RT
	o-Xylene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 01:27	RT
	Styrene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 01:27	RT
	Tetrachloroethylene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 01:27	RT
	Toluene	<0.0001	mg/L	1.00	0.0001	0.001		12/06/19 01:27	RT
	trans-1,2-Dichloroethylene	<0.0003	mg/L	1.00	0.0003	0.001		12/06/19 01:27	RT
	Trichloroethylene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 01:27	RT
	Vinyl Chloride	<0.0005	mg/L	1.00	0.0005	0.001		12/06/19 01:27	RT
	Xylenes	<0.0005	mg/L	1.00	0.0005	0.003		12/06/19 01:27	RT
	p-Bromofluorobenzene(surr)	121	%	1.00		70-130		12/06/19 01:27	RT
	1,2-Dichlorobenzene-d4(surr)	105	%	1.00		70-130		12/06/19 01:27	RT



LABORATORY TEST RESULTS

Job ID : 19120368

Date 12/9/2019

Client Name: TCEQ Attn: Paige Pritchard
 Project Name: W012074 / Reg. 10, Org. #4210, PCA Code. 04100 95901, Program: Drinking Water

Client Sample ID: W012074-03 Job Sample ID: 19120368.03
 Date Collected: 12/03/19 Sample Matrix: Drinking Water
 Time Collected: 15:37 % Moisture
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	MLQ	Q	Date Time	Analyst
EPA 524.2									
	1,1,1-Trichloroethane	<0.0004	mg/L	1.00	0.0004	0.001		12/06/19 02:00	RT
	1,1,2-Trichloroethane	<0.0004	mg/L	1.00	0.0004	0.001		12/06/19 02:00	RT
	1,1-Dichloroethylene	<0.0006	mg/L	1.00	0.0006	0.001		12/06/19 02:00	RT
	1,2,4-Trichlorobenzene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 02:00	RT
	1,2-Dichlorobenzene	<0.0004	mg/L	1.00	0.0004	0.001		12/06/19 02:00	RT
	1,2-Dichloroethane	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 02:00	RT
	1,2-Dichloropropane	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 02:00	RT
	1,4-Dichlorobenzene	<0.0003	mg/L	1.00	0.0003	0.001		12/06/19 02:00	RT
	Benzene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 02:00	RT
	Carbon tetrachloride	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 02:00	RT
	Chlorobenzene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 02:00	RT
	cis-1,2-Dichloroethylene	<0.0007	mg/L	1.00	0.0007	0.001		12/06/19 02:00	RT
	Ethylbenzene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 02:00	RT
	m- & p-Xylenes	<0.0005	mg/L	1.00	0.0005	0.002		12/06/19 02:00	RT
	Methylene chloride	<0.0005	mg/L	1.00	0.0005	0.001		12/06/19 02:00	RT
	o-Xylene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 02:00	RT
	Styrene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 02:00	RT
	Tetrachloroethylene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 02:00	RT
	Toluene	<0.0001	mg/L	1.00	0.0001	0.001		12/06/19 02:00	RT
	trans-1,2-Dichloroethylene	<0.0003	mg/L	1.00	0.0003	0.001		12/06/19 02:00	RT
	Trichloroethylene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 02:00	RT
	Vinyl Chloride	<0.0005	mg/L	1.00	0.0005	0.001		12/06/19 02:00	RT
	Xylenes	<0.0005	mg/L	1.00	0.0005	0.003		12/06/19 02:00	RT
	p-Bromofluorobenzene(surr)	112	%	1.00		70-130		12/06/19 02:00	RT
	1,2-Dichlorobenzene-d4(surr)	95.3	%	1.00		70-130		12/06/19 02:00	RT



LABORATORY TEST RESULTS

Job ID : 19120368

Date 12/9/2019

Client Name: TCEQ Attn: Paige Pritchard
 Project Name: W012074 / Reg. 10, Org. #4210, PCA Code. 04100 95901, Program: Drinking Water

Client Sample ID: W012074-04 Job Sample ID: 19120368.04
 Date Collected: 12/04/19 Sample Matrix: Drinking Water
 Time Collected: 11:35 % Moisture
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	ML	Q	Date Time	Analyst
EPA 524.2									
	1,1,1-Trichloroethane	<0.0004	mg/L	1.00	0.0004	0.001		12/06/19 02:33	RT
	1,1,2-Trichloroethane	<0.0004	mg/L	1.00	0.0004	0.001		12/06/19 02:33	RT
	1,1-Dichloroethylene	<0.0006	mg/L	1.00	0.0006	0.001		12/06/19 02:33	RT
	1,2,4-Trichlorobenzene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 02:33	RT
	1,2-Dichlorobenzene	<0.0004	mg/L	1.00	0.0004	0.001		12/06/19 02:33	RT
	1,2-Dichloroethane	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 02:33	RT
	1,2-Dichloropropane	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 02:33	RT
	1,4-Dichlorobenzene	<0.0003	mg/L	1.00	0.0003	0.001		12/06/19 02:33	RT
	Benzene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 02:33	RT
	Carbon tetrachloride	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 02:33	RT
	Chlorobenzene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 02:33	RT
	cis-1,2-Dichloroethylene	<0.0007	mg/L	1.00	0.0007	0.001		12/06/19 02:33	RT
	Ethylbenzene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 02:33	RT
	m- & p-Xylenes	<0.0005	mg/L	1.00	0.0005	0.002		12/06/19 02:33	RT
	Methylene chloride	<0.0005	mg/L	1.00	0.0005	0.001		12/06/19 02:33	RT
	o-Xylene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 02:33	RT
	Styrene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 02:33	RT
	Tetrachloroethylene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 02:33	RT
	Toluene	<0.0001	mg/L	1.00	0.0001	0.001		12/06/19 02:33	RT
	trans-1,2-Dichloroethylene	<0.0003	mg/L	1.00	0.0003	0.001		12/06/19 02:33	RT
	Trichloroethylene	<0.0002	mg/L	1.00	0.0002	0.001		12/06/19 02:33	RT
	Vinyl Chloride	<0.0005	mg/L	1.00	0.0005	0.001		12/06/19 02:33	RT
	Xylenes	<0.0005	mg/L	1.00	0.0005	0.003		12/06/19 02:33	RT
	p-Bromofluorobenzene(surr)	109	%	1.00		70-130		12/06/19 02:33	RT
	1,2-Dichlorobenzene-d4(surr)	93.3	%	1.00		70-130		12/06/19 02:33	RT



LABORATORY TEST RESULTS

Job ID : 19120368

Date 12/9/2019

Client Name: TCEQ Attn: Paige Pritchard
 Project Name: W012074 / Reg. 10, Org. #4210, PCA Code. 04100 95901, Program: Drinking Water

Client Sample ID: W012074-05 Job Sample ID: 19120368.05
 Date Collected: 12/04/19 Sample Matrix: Drinking Water
 Time Collected: 10:45 % Moisture
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	MQL	Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12	0.383	mg/L	1	0.35	2.15	J	12/06/19 09:51	VMN
	>C12-C28	<0.37	mg/L	1	0.37	2.15		12/06/19 09:51	VMN
	>C28-C35	<0.18	mg/L	1	0.18	2.15		12/06/19 09:51	VMN
	Total C6-C35	<0.18	mg/L	1	0.18			12/06/19 09:51	VMN
	Chlorooctadecane(surr)	109	%	1		70-125		12/06/19 09:51	VMN
	1-Chlorooctane(surr)	101	%	1		70-125		12/06/19 09:51	VMN



LABORATORY TEST RESULTS

Job ID : 19120368

Date 12/9/2019

Client Name: TCEQ Attn: Paige Pritchard
 Project Name: W012074 / Reg. 10, Org. #4210, PCA Code. 04100 95901, Program: Drinking Water

Client Sample ID: W012074-06 Job Sample ID: 19120368.06
 Date Collected: 12/04/19 Sample Matrix: Drinking Water
 Time Collected: 11:45 % Moisture
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	MQL	Q	Date Time	Analyst	
TX 1005	Total Petroleum Hydrocarbons									
		C6-C12	<0.35	mg/L	1	0.35	2.15		12/06/19 10:21	VMN
		>C12-C28	<0.37	mg/L	1	0.37	2.15		12/06/19 10:21	VMN
		>C28-C35	<0.18	mg/L	1	0.18	2.15		12/06/19 10:21	VMN
		Total C6-C35	<0.18	mg/L	1	0.18			12/06/19 10:21	VMN
		Chlorooctadecane(surr)	117	%	1		70-125		12/06/19 10:21	VMN
		1-Chlorooctane(surr)	112	%	1		70-125		12/06/19 10:21	VMN

QUALITY CONTROL CERTIFICATE



Job ID : 19120368

Date : 12/9/2019

Analysis : Total Petroleum Hydrocarbons

Method : TX 1005

Reporting Units : mg/L

QC Batch ID : Qb19120618 **Created Date :** 12/05/19

Created By : AKumar

Samples in This QC Batch : 19120368.05,06

Sample Preparation : PB19120606 **Prep Method :** TX 1005 **Prep Date :** 12/05/19 12:00 **Prep By :** AKumar

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
C6-C12	TPH-1005-1	< MDL	mg/L	1	2.15	0.35	
>C12-C28	TPH-1005-2	< MDL	mg/L	1	2.15	0.37	
>C28-C35	TPH-1005-4	< MDL	mg/L	1	2.15	0.18	
Total C6-C35		< MDL	mg/L	1	----	0.18	
Chlorooctadecane(surr)	3386-33-2	88	%	1			
1-Chlorooctane(surr)	111-85-3	87.9	%	1			

QC Type: Duplicate

QC Sample ID: 19120309.02

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
>C12-C28	BRL	BRL	mg/L	0	+20	
>C28-C35	BRL	BRL	mg/L	0	+20	
C6-C12	BRL	BRL	mg/L	0	+20	
Total C6-C35	BRL	BRL	mg/L	0	+20	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
C6-C12	43	49.4	115	43	46.7	109	5.6	20	75-125	
>C12-C28	43	50.4	117	43	46.5	108	8	20	75-125	
>C28-C35	43	43.9	102	43	40.9	95.1	7.1	20	75-125	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 19120368

Date : 12/9/2019

Analysis : **Method :** EPA 524.2 **Reporting Units :** mg/L

QC Batch ID : Qb19120666 **Created Date :** 12/05/19 **Created By :** Rajeev

Samples in This QC Batch : 19120368.01,02,03,04

Sample Preparation : PB19120630 **Prep Method :** EPA 524.2 **Prep Date :** 12/05/19 16:00 **Prep By :** Rajeev

QC Type: Method Blank									
Parameter	CAS #	Result	Units	D.F.	MQL	MDL			Qual
1,1,1-Trichloroethane	71-55-6	< MDL	mg/L	1.00	0.001	0.0004			
1,1,2-Trichloroethane	79-00-5	< MDL	mg/L	1.00	0.001	0.0004			
1,1-Dichloroethylene	75-35-4	< MDL	mg/L	1.00	0.001	0.0006			
1,2,4-Trichlorobenzene	120-82-1	< MDL	mg/L	1.00	0.001	0.0002			
1,2-Dichlorobenzene	95-50-1	< MDL	mg/L	1.00	0.001	0.0004			
1,2-Dichloroethane	107-06-2	< MDL	mg/L	1.00	0.001	0.0002			
1,2-Dichloropropane	78-87-5	< MDL	mg/L	1.00	0.001	0.0002			
1,4-Dichlorobenzene	106-46-7	< MDL	mg/L	1.00	0.001	0.0003			
Benzene	71-43-2	< MDL	mg/L	1.00	0.001	0.0002			
Carbon tetrachloride	56-23-5	< MDL	mg/L	1.00	0.001	0.0002			
Chlorobenzene	108-90-7	< MDL	mg/L	1.00	0.001	0.0002			
cis-1,2-Dichloroethylene	156-59-2	< MDL	mg/L	1.00	0.001	0.0007			
Ethylbenzene	100-41-4	< MDL	mg/L	1.00	0.001	0.0002			
m- & p-Xylenes	108-38-3&106-42-3	< MDL	mg/L	1.00	0.002	0.0005			
Methylene chloride	75-09-2	< MDL	mg/L	1.00	0.001	0.0005			
o-Xylene	95-47-6	< MDL	mg/L	1.00	0.001	0.0002			
Styrene	100-42-5	< MDL	mg/L	1.00	0.001	0.0002			
Tetrachloroethylene	127-18-4	< MDL	mg/L	1.00	0.001	0.0002			
Toluene	108-88-3	< MDL	mg/L	1.00	0.001	0.0001			
trans-1,2-Dichloroethylene	156-60-5	< MDL	mg/L	1.00	0.001	0.0003			
Trichloroethylene	79-01-6	< MDL	mg/L	1.00	0.001	0.0002			
Vinyl Chloride	75-01-4	< MDL	mg/L	1.00	0.001	0.0005			
Xylenes	1330-20-7	< MDL	mg/L	1.00	0.003	0.0005			
1,2-Dichlorobenzene-d4(sur	3855-82-1	90.4	%	1.00					
p-Bromofluorobenzene(surr	460-00-4	109	%	1.00					

QC Type: LCS and LCSD										
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrLLimit	%Recovery CtrLLimit	Qual
1,1,1-Trichloroethane	0.01	0.009963	99.6	0.01	0.009931	99.3	0.3	30	70-130	
1,1,2-Trichloroethane	0.01	0.010431	104	0.01	0.010343	103	0.8	30	70-130	
1,1-Dichloroethylene	0.01	0.009618	96.2	0.01	0.009624	96.2	0.1	30	70-130	
1,2,4-Trichlorobenzene	0.01	0.009796	98	0.01	0.009453	94.5	3.6	30	70-130	
1,2-Dichlorobenzene	0.01	0.009882	98.8	0.01	0.010011	100	1.3	30	70-130	
1,2-Dichloroethane	0.01	0.010213	102	0.01	0.010082	101	1.3	30	70-130	
1,2-Dichloropropane	0.01	0.00963	96.3	0.01	0.009961	99.6	3.4	30	70-130	
1,4-Dichlorobenzene	0.01	0.009581	95.8	0.01	0.009526	95.3	0.6	30	70-130	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 19120368

Date : 12/9/2019

Analysis : Method : EPA 524.2 Reporting Units : mg/L

QC Batch ID : Qb19120666 Created Date : 12/05/19 Created By : Rajeev

Samples in This QC Batch : 19120368.01,02,03,04

QC Type: LCS and LCSD										
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Benzene	0.01	0.009931	99.3	0.01	0.010115	101	1.8	30	70-130	
Carbon tetrachloride	0.01	0.010041	100	0.01	0.009899	99	1.4	30	70-130	
Chlorobenzene	0.01	0.009636	96.4	0.01	0.009693	96.9	0.6	30	70-130	
cis-1,2-Dichloroethylene	0.01	0.009788	97.9	0.01	0.010125	101	3.4	30	70-130	
Ethylbenzene	0.01	0.009718	97.2	0.01	0.009841	98.4	1.3	30	70-130	
m- & p-Xylenes	0.02	0.019732	98.7	0.02	0.019601	98	0.7	30	70-130	
Methylene chloride	0.01	0.011002	110	0.01	0.010812	108	1.7	30	70-130	
o-Xylene	0.01	0.009879	98.8	0.01	0.009874	98.7	0.1	30	70-130	
Styrene	0.01	0.010039	100	0.01	0.009614	96.1	4.3	30	70-130	
Tetrachloroethylene	0.01	0.010876	109	0.01	0.010921	109	0.4	30	70-130	
Toluene	0.01	0.009678	96.8	0.01	0.009735	97.4	0.6	30	70-130	
trans-1,2-Dichloroethylene	0.01	0.009769	97.7	0.01	0.009782	97.8	0.1	30	70-130	
Trichloroethylene	0.01	0.01002	100	0.01	0.010761	108	7.1	30	70-130	
Vinyl Chloride	0.01	0.009358	93.6	0.01	0.010012	100	6.8	30	70-130	
Xylenes	0.03	0.029611	98.7	0.03	0.029475	98.3	0.5	30	70-130	

QC Type: MS and MSD											
QC Sample ID: 19120368.04											
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
1,1,1-Trichloroethane	BRL	0.01	0.010652	107						70-130	
1,1,2-Trichloroethane	BRL	0.01	0.011042	110						70-130	
1,1-Dichloroethylene	BRL	0.01	0.008262	82.6						70-130	
1,2,4-Trichlorobenzene	BRL	0.01	0.011253	113						70-130	
1,2-Dichlorobenzene	BRL	0.01	0.011231	112						70-130	
1,2-Dichloroethane	BRL	0.01	0.010219	102						70-130	
1,2-Dichloropropane	BRL	0.01	0.011049	110						70-130	
1,4-Dichlorobenzene	BRL	0.01	0.010859	109						70-130	
Benzene	BRL	0.01	0.010888	109						70-130	
Carbon tetrachloride	BRL	0.01	0.010738	107						70-130	
Chlorobenzene	BRL	0.01	0.01065	107						70-130	
cis-1,2-Dichloroethylene	BRL	0.01	0.010387	104						70-130	
Ethylbenzene	BRL	0.01	0.010366	104						70-130	
m- & p-Xylenes	BRL	0.02	0.02084	104						70-130	
Methylene chloride	BRL	0.01	0.009838	98.4						70-130	
o-Xylene	BRL	0.01	0.010282	103						70-130	
Styrene	BRL	0.01	0.010569	106						70-130	
Tetrachloroethylene	BRL	0.01	0.010915	109						70-130	
Toluene	BRL	0.01	0.010796	108						70-130	
trans-1,2-Dichloroethylene	BRL	0.01	0.010413	104						70-130	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 19120368

Date : 12/9/2019

Analysis : **Method :** EPA 524.2 **Reporting Units :** mg/L

QC Batch ID : Qb19120666 **Created Date :** 12/05/19 **Created By :** Rajeev

Samples in This QC Batch : 19120368.01,02,03,04

QC Type: MS and MSD											
QC Sample ID: 19120368.04											
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Trichloroethylene	BRL	0.01	0.011054	111						70-130	
Vinyl Chloride	BRL	0.01	0.007371	73.7						70-130	
Xylenes	BRL	0.03	0.031122	104						70-130	

Refer to the Definition page for terms.

Chain of Custody Record

W 012074



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

Region: 10 Organization #: 4210 PCA Code: 04100 95901 Program: Drinking Water
 Sampler Name: Paige Pritchard Sampler Signature: Paige Pritchard
 Sampler phone number: (409) 898-3838 E-Mail ID: Paige.Pritchard@tceq.texas.gov

LAB USE ONLY	Sample ID	Sampling		Comp	Grab	Matrix L = Liquid S = Solid	No. of Containers	Containers*		Preservatives**		VOA	Semi-VOA	TPH	Remarks
		Date	Time												
		Analyses Requested	BOD					CBOD	TSS	NH ₃ -N	E. Coli				
	AG 19120308.01AD	12/4/19 12/3/19 PP	10:40 15:37 PP	✓	L	4					G	G	G		Entry Point 1
	.02A-D	12/4/19	11:35	✓	L	4					X	X			Entry Point 2
	.03A-C	12/3/19	15:37	✓	L	3 P.P.					X	X			1
	.04A-D	12/4/19	11:35	✓	L	4 P.P.					X	X			2
	.05A-C	12/4/19	10:45	✓	L	3							X		Ep 1
	.06A-C	12/4/19	11:45	✓	L	3							X		Ep 2
	-07						* Drinking Water Samples								
	-08						Semi VOA - EPA method 525.2		VOA - EPA method 524.2						24 hour turn around

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Paige Pritchard P.P.	12/4/19	13:38	FED-EX	12/4/19	13:38
Fed-ex	12/5/19	1000	[Signature]	12/5/19	1000
Shipper Name: <u>Fed-ex</u>	Shipper Number: <u>8062 7462 3100</u>				

FOR LAB USE ONLY

Received on Ice: Y N

Temperature: 1.5 0.5 = 1.0 °C

Preserved: Y N

COC Seal: Y N

Seals Intact: Y N



Sample Condition Checklist

A&B JobID : 19120368	Date Received : 12/05/2019	Time Received : 10:00AM																										
Client Name : TCEQ																												
Temperature : 1.5-0.5cf=1.0°C	Sample pH : n/a																											
Thermometer ID : 1707629	pH Paper ID : n/a																											
Check Points																												
1.	Cooler seal present and signed.	X		N/A																								
2.	Sample(s) in a cooler.	X																										
3.	If yes, ice in cooler.	X																										
4.	Sample(s) received with chain-of-custody.	X																										
5.	C-O-C signed and dated.	X																										
6.	Sample(s) received with signed sample custody seal.		X																									
7.	Sample containers arrived intact. (If no comment).	X																										
8.	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Matrix</td> <td style="text-align: center;">Water</td> <td style="text-align: center;">Soil</td> <td style="text-align: center;">Liquid</td> <td style="text-align: center;">Sludge</td> <td style="text-align: center;">Solid</td> <td style="text-align: center;">Cassette</td> <td style="text-align: center;">Tube</td> <td style="text-align: center;">Bulk</td> <td style="text-align: center;">Badge</td> <td style="text-align: center;">Food</td> <td style="text-align: center;">Other</td> </tr> <tr> <td style="text-align: center;">:</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other	:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other																	
:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																	
9.	Sample(s) were received in appropriate container(s).	X																										
10.	Sample(s) were received with proper preservative	X																										
11.	All samples were logged or labeled.	X																										
12.	Sample ID labels match C-O-C ID's	X																										
13.	Bottle count on C-O-C matches bottles found.		X																									
14.	Sample volume is sufficient for analyses requested.		X																									
15.	Samples were received within the hold time.	X																										
16.	VOA vials completely filled.	X																										
17.	Sample accepted.	X																										
18.	Has client been contacted about sub-out			X																								
Comments : Include actions taken to resolve discrepancies/problem:																												
No SVOC received for 03. Received an additional set of VOAs for 01; Labeled as 01EFG. -ANA 12-6-19.COC is edited by sampler for container #, 12-06-19sag																												

Received by : TThompson

Check in by/date : AArnett / 12/05/2019