



P.O. Box 1089 Coldspring Tx 77331
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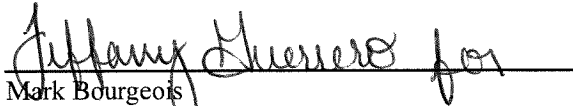
August 10, 2020

Texas A&M Agrilife
Texas A and M AgriLife
1335 Regents Park Dr. Ste. 260
Houston, TX 77058

TX A and M Community Stormwater

Enclosed are the results of analyses for samples received by the laboratory on 07/22/20 04:50, with Lab ID Number C0G4865. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mark Bourgeois
Special Projects Manager



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Texas A and M AgriLife
 1335 Regents Park Dr. Ste. 260
 Houston TX, 77058

LABORATORY ANALYTICAL REPORT

Project: TX A and M Community Stormwater
 Sample Matrix: Water
 Client Matrix: Water

Sample Date & Time: 07/22/2020 10:18
 Collector: CT
 Sample Type: Grab
 Print Date: 8/10/2020

PTWB 301-5
 C0G4865-01 (Water)

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed Date & Time	Method	Notes
<u>Metals</u>								
Arsenic, Total	0.00316	0.000500	mg/L	A	B0G3324	07/31/2020 03:24	EPA 200.8	
Barium, Total	0.0560	0.00300	mg/L	A	B0G3324	07/31/2020 03:24	EPA 200.8	
Cadmium, Total	<0.00100	0.00100	mg/L	A	B0G3324	07/31/2020 03:24	EPA 200.8	
Chromium, Total	<0.00300	0.00300	mg/L	A	B0G3324	07/31/2020 03:24	EPA 200.8	
Lead, Total	<0.000500	0.000500	mg/L	A	B0G3324	07/31/2020 03:24	EPA 200.8	
Mercury, Total	<0.000200	0.000200	mg/L	A	B0G3166	07/23/2020 15:35	EPA 245.1	
Selenium, Total	<0.00500	0.00500	mg/L	A	B0G3324	07/31/2020 03:24	EPA 200.8	
Silver, Total	<0.000500	0.000500	mg/L	A	B0G3324	07/31/2020 03:24	EPA 200.8	
Total Phosphorus	<0.0600	0.0600	mg/L	A	B0H0141	08/07/2020 09:41	EPA 200.7	

Microbiological Lab

E coli IDEXX	10	10	mpn/100ml	A	B0G3196	07/22/2020 15:24	Colilert 18	
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Organics

TPH TX 1005

TPH (>C6 - C12)	<2.00	2.00	mg/L	A	B0G3492	08/06/2020 15:19	TX 1005	
TPH (>C12 - C28)	<2.00	2.00	mg/L	A	B0G3492	08/06/2020 15:19	TX 1005	
TPH (>C28 - C35)	<5.00	5.00	mg/L	A	B0G3492	08/06/2020 15:19	TX 1005	
Total TPH (>C6-C35)	<5.00	5.00	mg/L		B0G3492	08/06/2020 15:19	TX 1005	
Surrogate: 1-Chlorooctane			105 %	70-130	B0G3492	08/06/2020 15:19	TX 1005	
Surrogate: o-Terphenyl			108 %	70-130	B0G3492	08/06/2020 15:19	TX 1005	

Wet Lab

Ammonia as N	0.1	0.1	mg/L	A	B0G3518	07/27/2020 14:33	SM 4500 NH3 G	
Nitrate+Nitrite as N	0.13	0.02	mg/L	A	B0H0045	08/03/2020 13:01	SM 4500 NO3 F	
TSS	33.2	1.0	mg/L	A	B0G3120	07/23/2020 13:27	SM 2540 D	

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SM 2540 D - Quality Control
Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0G3120 - No Prep										
Blank (B0G3120-BLK1)					Prepared & Analyzed: 7/23/2020 1:27:00PM					
TSS	ND	1.0	mg/L							
Duplicate (B0G3120-DUP1)					Source: C0G4445-01 Prepared & Analyzed: 7/23/2020 1:27:00PM					
TSS	254	1.0	mg/L		252			0.791	10	
Batch B0G3166 - EPA 245.1										
Blank (B0G3166-BLK1)					Prepared & Analyzed: 7/23/2020 3:19:26PM					
Mercury, Total	ND	0.000200	mg/L							
LCS (B0G3166-BS1)					Prepared & Analyzed: 7/23/2020 3:21:27PM					
Mercury, Total	0.00251	0.000200	mg/L	0.00250		100	75-115			
Matrix Spike (B0G3166-MS1)					Source: C0G4380-01 Prepared & Analyzed: 7/23/2020 3:29:32PM					
Mercury, Total	0.00305	0.000200	mg/L	0.00250	ND	122	70-130			
Matrix Spike Dup (B0G3166-MSD1)					Source: C0G4380-01 Prepared & Analyzed: 7/23/2020 3:31:33PM					
Mercury, Total	0.00309	0.000200	mg/L	0.00250	ND	124	70-130	1.30	20	
Batch B0G3196 - No Prep Micro										
Blank (B0G3196-BLK1)					Prepared & Analyzed: 7/22/2020 3:24:00PM					
E coli IDEXX	ND		1 mpn/100ml							
Duplicate (B0G3196-DUP1)					Source: C0G4454-01 Prepared & Analyzed: 7/22/2020 3:24:00PM					
E coli IDEXX	ND		2 mpn/100ml		ND				200	
Batch B0G3324 - EPA 200.8										
Blank (B0G3324-BLK1)					Prepared & Analyzed: 7/31/2020 12:24:09AM					
Arsenic, Total	ND	0.000500	mg/L							
Barium, Total	ND	0.00300	mg/L							
Cadmium, Total	ND	0.00100	mg/L							
Chromium, Total	ND	0.00300	mg/L							
Lead, Total	ND	0.000500	mg/L							
Selenium, Total	ND	0.00500	mg/L							
Silver, Total	ND	0.000500	mg/L							
LCS (B0G3324-BS1)					Prepared & Analyzed: 7/31/2020 12:29:22AM					
Arsenic, Total	0.101	0.000500	mg/L	0.100		101	85-115			

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Texas A and M AgriLife
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 Houston TX, 77058

EPA 200.8 - Quality Control
Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0G3324 - EPA 200.8

LCS (B0G3324-BS1)		Prepared & Analyzed: 7/31/2020 12:29:22AM								
Barium, Total	0.109	0.00300	mg/L	0.100		109	85-115			
Cadmium, Total	0.0983	0.00100	mg/L	0.100		98.3	85-115			
Chromium, Total	0.0970	0.00300	mg/L	0.100		97.0	85-115			
Lead, Total	0.108	0.000500	mg/L	0.100		108	85-115			
Selenium, Total	0.0967	0.00500	mg/L	0.100		96.7	85-115			
Silver, Total	0.107	0.000500	mg/L	0.100		107	85-115			

Matrix Spike (B0G3324-MS1)		Source: C0G4520-01		Prepared & Analyzed: 7/31/2020 12:44:47AM						
Arsenic, Total	0.0989	0.000500	mg/L	0.100	0.00166	97.2	70-130			
Barium, Total	0.109	0.00300	mg/L	0.100	0.00704	102	70-130			
Cadmium, Total	0.0950	0.00100	mg/L	0.100	0.000978	94.1	70-130			
Chromium, Total	0.0944	0.00300	mg/L	0.100	ND	94.4	70-130			
Lead, Total	0.104	0.000500	mg/L	0.100	ND	104	70-130			
Selenium, Total	0.0939	0.00500	mg/L	0.100	ND	93.9	70-130			
Silver, Total	0.101	0.000500	mg/L	0.100	ND	101	70-130			

Matrix Spike Dup (B0G3324-MSD1)		Source: C0G4520-01		Prepared & Analyzed: 7/31/2020 12:49:53AM					
Arsenic, Total	0.0995	0.000500	mg/L	0.100	0.00166	97.9	70-130	0.703	20
Barium, Total	0.105	0.00300	mg/L	0.100	0.00704	97.6	70-130	4.26	20
Cadmium, Total	0.0957	0.00100	mg/L	0.100	0.000978	94.7	70-130	0.679	20
Chromium, Total	0.0964	0.00300	mg/L	0.100	ND	96.4	70-130	2.04	20
Lead, Total	0.0977	0.000500	mg/L	0.100	ND	97.7	70-130	5.86	20
Selenium, Total	0.0958	0.00500	mg/L	0.100	ND	95.8	70-130	1.97	20
Silver, Total	0.102	0.000500	mg/L	0.100	ND	102	70-130	1.20	20

Batch B0G3492 - No Prep- Organic

Blank (B0G3492-BLK1)		Prepared & Analyzed: 8/6/2020 12:01:00PM								
TPH (>C6 - C12)	ND	2.00	mg/L							
TPH (>C12 - C28)	ND	2.00	mg/L							
TPH (>C28 - C35)	ND	5.00	mg/L							
Total TPH (>C6-C35)	ND	5.00	mg/L							
Surrogate: 1-Chlorooctane	27.6		mg/L	33.3		82.8	70-130			
Surrogate: o-Terphenyl	28.4		mg/L	33.3		85.1	70-130			

LCS (B0G3492-BS1)		Prepared & Analyzed: 8/6/2020 2:33:00PM								
TPH (>C6 - C12)	30.1	2.00	mg/L	33.3		90.4	70-130			
TPH (>C12 - C28)	30.6	2.00	mg/L	33.3		91.7	70-130			

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Texas A and M AgriLife
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 Houston TX, 77058

TX 1005 - Quality Control
Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0G3492 - No Prep- Organic

LCS (B0G3492-BS1)										
										Prepared & Analyzed: 8/6/2020 2:33:00PM
TPH (>C28 - C35)	51.4	5.00	mg/L	66.7		77.2	70-130			
<i>Surrogate: 1-Chlorooctane</i>	32.0		mg/L	33.3		95.9	70-130			
<i>Surrogate: o-Terphenyl</i>	32.2		mg/L	33.3		96.5	70-130			

Matrix Spike (B0G3492-MS1)										
				Source: C0G3573-01	Prepared & Analyzed: 8/6/2020 6:20:00PM					
TPH (>C6 - C12)	40.1	2.00	mg/L	33.3	5.53	104	70-130			
TPH (>C12 - C28)	37.7	2.00	mg/L	33.3	2.99	104	70-130			
TPH (>C28 - C35)	59.6	5.00	mg/L	66.7	ND	89.4	70-130			
<i>Surrogate: 1-Chlorooctane</i>	36.6		mg/L	33.3		110	70-130			
<i>Surrogate: o-Terphenyl</i>	37.3		mg/L	33.3		112	70-130			

Matrix Spike Dup (B0G3492-MSD1)										
				Source: C0G3573-01	Prepared & Analyzed: 8/6/2020 7:06:00PM					
TPH (>C6 - C12)	40.4	2.00	mg/L	33.3	5.53	105	70-130	0.676	25	
TPH (>C12 - C28)	39.2	2.00	mg/L	33.3	2.99	109	70-130	4.08	25	
TPH (>C28 - C35)	57.3	5.00	mg/L	66.7	ND	86.0	70-130	3.88	25	
<i>Surrogate: 1-Chlorooctane</i>	36.8		mg/L	33.3		110	70-130			
<i>Surrogate: o-Terphenyl</i>	37.5		mg/L	33.3		113	70-130			

Batch B0G3518 - No Prep

Blank (B0G3518-BLK1)										
										Prepared & Analyzed: 7/27/2020 2:21:00PM
Ammonia as N	ND	0.1	mg/L							

LCS (B0G3518-BS1)										
										Prepared & Analyzed: 7/27/2020 2:18:00PM
Ammonia as N	2.00		mg/L	2.00		99.8	90-110			

LCS Dup (B0G3518-BSD1)										
										Prepared & Analyzed: 7/27/2020 2:16:00PM
Ammonia as N	2.05		mg/L	2.00		103	90-110	2.81	20	

MRL Check (B0G3518-MRL1)										
										Prepared & Analyzed: 7/27/2020 2:19:00PM
Ammonia as N	0.121		mg/L	0.100		121	0-200			

Matrix Spike (B0G3518-MS1)										
				Source: C0G4538-04	Prepared & Analyzed: 7/27/2020 2:23:00PM					
Ammonia as N	2.7	0.1	mg/L	2.50	0.1	103	80-120			

Batch B0H0045 - No Prep

Blank (B0H0045-BLK1)										
										Prepared & Analyzed: 8/3/2020 12:38:00PM

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SM 4500 NO3 F - Quality Control
Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0H0045 - No Prep										
Blank (B0H0045-BLK1)				Prepared & Analyzed: 8/3/2020 12:38:00PM						
Nitrate+Nitrite as N	ND	0.02	mg/L							
LCS (B0H0045-BS1)				Prepared & Analyzed: 8/3/2020 12:41:00PM						
Nitrate+Nitrite as N	1.05		mg/L	1.00		105	90-110			
Matrix Spike (B0H0045-MS1)				Source: C0G3279-01		Prepared & Analyzed: 8/3/2020 12:43:00PM				
Nitrate+Nitrite as N	1.51	0.02	mg/L	1.00	0.432	108	80-120			
Matrix Spike Dup (B0H0045-MSD1)				Source: C0G3279-01		Prepared & Analyzed: 8/3/2020 12:46:00PM				
Nitrate+Nitrite as N	1.53	0.02	mg/L	1.00	0.432	110	80-120	1.32	20	
Batch B0H0141 - EPA 200.7										
Blank (B0H0141-BLK1)				Prepared & Analyzed: 8/7/2020 9:00:09AM						
Total Phosphorus	ND	0.0600	mg/L							
Blank (B0H0141-BLK2)				Prepared & Analyzed: 8/7/2020 9:59:16AM						
Total Phosphorus	ND	0.0600	mg/L							
LCS (B0H0141-BS1)				Prepared & Analyzed: 8/7/2020 9:03:37AM						
Total Phosphorus	2.36	0.0600	mg/L	2.52		93.7	85-115			
LCS (B0H0141-BS2)				Prepared & Analyzed: 8/7/2020 10:02:45AM						
Total Phosphorus	2.45	0.0600	mg/L	2.52		97.2	85-115			
LCS Dup (B0H0141-BSD1)				Prepared & Analyzed: 8/7/2020 9:07:05AM						
Total Phosphorus	2.45	0.0600	mg/L	2.52		97.1	85-115	3.58	20	
LCS Dup (B0H0141-BSD2)				Prepared & Analyzed: 8/7/2020 10:06:15AM						
Total Phosphorus	2.53	0.0600	mg/L	2.52		100	85-115	3.06	20	
MRL Check (B0H0141-MRL1)				Prepared & Analyzed: 8/7/2020 1:01:19PM						
Total Phosphorus	0.0718		mg/L	0.0600		120	0-200			
Matrix Spike (B0H0141-MS1)				Source: C0G4538-01		Prepared & Analyzed: 8/7/2020 9:17:29AM				
Total Phosphorus	2.56	0.0600	mg/L	2.52	0.0517	99.4	70-130			
Matrix Spike (B0H0141-MS2)				Source: C0G5000-02		Prepared & Analyzed: 8/7/2020 10:16:41AM				
Total Phosphorus	3.02	0.0600	mg/L	2.52	0.127	115	70-130			

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Notes and Definitions

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

