



P.O. Box 1089 Coldspring Tx 77331
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June 01, 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 05/06/20 15:30, with Lab ID Number C0E1504. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Mark Bourgeois". The signature is written in a cursive style and is positioned above a horizontal line.

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: 05/06/2020 08:11

Collector: CT

Sample Type: Grab

Print Date: 6/1/2020

301-2

C0E1504-01 (Water)

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed Date & Time	Method	Notes
<u>Metals</u>								
Arsenic, Total	0.00171	0.000500	mg/L	A	B0E1061	05/11/2020 21:25	EPA 200.8	
Barium, Total	0.0191	0.00300	mg/L	A	B0E1061	05/11/2020 21:25	EPA 200.8	12
Cadmium, Total	<0.00100	0.00100	mg/L	A	B0E1061	05/11/2020 21:25	EPA 200.8	
Chromium, Total	0.00529	0.00300	mg/L	A	B0E1061	05/11/2020 21:25	EPA 200.8	
Lead, Total	<0.000500	0.000500	mg/L	A	B0E1061	05/11/2020 21:25	EPA 200.8	12
Mercury, Total	<0.000200	0.000200	mg/L	A	B0E0765	05/07/2020 16:04	EPA 245.1	
Selenium, Total	<0.00500	0.00500	mg/L	A	B0E1061	05/11/2020 21:25	EPA 200.8	
Silver, Total	<0.000500	0.000500	mg/L	A	B0E1061	05/11/2020 21:25	EPA 200.8	
Total Phosphorus	<0.0600	0.0600	mg/L	A	B0E2085	05/26/2020 10:27	EPA 200.7	

Microbiological Lab

E coli IDEXX	733	10	mpn/100ml	A	B0E0901	05/06/2020 15:45	Colilert 18	
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Organics

TPH TX 1005

TPH (>C6 - C12)	<2.00	2.00	mg/L	A	B0E1922	05/15/2020 21:08	TX 1005	
TPH (>C12 - C28)	<2.00	2.00	mg/L	A	B0E1922	05/15/2020 21:08	TX 1005	
TPH (>C28 - C35)	<5.00	5.00	mg/L	A	B0E1922	05/15/2020 21:08	TX 1005	
Total TPH (>C6-C35)	<5.00	5.00	mg/L		B0E1922	05/15/2020 21:08	TX 1005	
Surrogate: 1-Chlorooctane			115 %	70-130	B0E1922	05/15/2020 21:08	TX 1005	
Surrogate: o-Terphenyl			115 %	70-130	B0E1922	05/15/2020 21:08	TX 1005	

Wet Lab

Ammonia as N	0.2	0.1	mg/L	A	B0E1394	05/12/2020 15:46	SM 4500 NH3 G	
Nitrate+Nitrite as N	11.0	0.02	mg/L	A	B0E1212	05/11/2020 15:39	SM 4500 NO3 F	
TSS	12.0	1.0	mg/L	A	B0E0773	05/07/2020 14:32	SM 2540 D	

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EPA 245.1 - Quality Control
Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0E0765 - EPA 245.1										
Blank (B0E0765-BLK1)				Prepared & Analyzed: 5/7/2020 2:37:01PM						
Mercury, Total	ND	0.000200	mg/L							
LCS (B0E0765-BS1)				Prepared & Analyzed: 5/7/2020 2:41:03PM						
Mercury, Total	0.00269	0.000200	mg/L	0.00250	ND	108	75-115			
Matrix Spike (B0E0765-MS1)				Source: C0E0573-01		Prepared & Analyzed: 5/7/2020 2:47:07PM				
Mercury, Total	0.00281	0.000200	mg/L	0.00250	ND	112	70-130			
Matrix Spike Dup (B0E0765-MSD1)				Source: C0E0573-01		Prepared & Analyzed: 5/7/2020 2:49:08PM				
Mercury, Total	0.00261	0.000200	mg/L	0.00250	ND	104	70-130	7.38	20	
Batch B0E0773 - No Prep										
Blank (B0E0773-BLK1)				Prepared & Analyzed: 5/7/2020 2:32:00PM						
TSS	ND	1.0	mg/L							
Duplicate (B0E0773-DUP1)				Source: C0E0755-01		Prepared & Analyzed: 5/7/2020 2:32:00PM				
TSS	86.0	1.0	mg/L		84.0			2.35	10	
Batch B0E0901 - No Prep Micro										
Blank (B0E0901-BLK1)				Prepared & Analyzed: 5/6/2020 3:45:00PM						
E coli IDEXX	ND	1	mpn/100ml							
Duplicate (B0E0901-DUP1)				Source: C0E0978-01		Prepared & Analyzed: 5/6/2020 3:45:00PM				
E coli IDEXX	ND	2	mpn/100ml		ND				200	
Batch B0E1061 - EPA 200.8										
Blank (B0E1061-BLK1)				Prepared & Analyzed: 5/11/2020 3:09:42PM						
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 (B0E1061-BS1)				Prepared & Analyzed: 5/11/2020 3:14:53PM						
Arsenic, Total	0.110	0.000500	mg/L	0.100		110	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 B0E1061 - EPA 200.8

LCS (B0E1061-BS1)

Prepared & Analyzed: 5/11/2020 3:14:53PM

Barium, Total	0.107	0.00300	mg/L	0.100		107	85-115			
Cadmium, Total	0.110	0.00100	mg/L	0.100		110	85-115			
Chromium, Total	0.112	0.00300	mg/L	0.100		112	85-115			
Lead, Total	0.109	0.000500	mg/L	0.100		109	85-115			
Selenium, Total	0.110	0.00500	mg/L	0.100		110	85-115			
Silver, Total	0.107	0.000500	mg/L	0.100		107	85-115			

Matrix Spike (B0E1061-MS1)

Source: C0E0728-01

Prepared & Analyzed: 5/11/2020 3:30:17PM

Arsenic, Total	0.111	0.000500	mg/L	0.100	0.00197	109	70-130			
Barium, Total	0.147	0.00300	mg/L	0.100	0.0600	86.5	70-130			
Cadmium, Total	0.106	0.00100	mg/L	0.100	ND	106	70-130			
Chromium, Total	0.111	0.00300	mg/L	0.100	ND	111	70-130			
Lead, Total	0.0996	0.000500	mg/L	0.100	0.000152	99.4	70-130			
Selenium, Total	0.0982	0.00500	mg/L	0.100	ND	98.2	70-130			
Silver, Total	0.102	0.000500	mg/L	0.100	ND	102	70-130			

Matrix Spike Dup (B0E1061-MSD1)

Source: C0E0728-01

Prepared & Analyzed: 5/11/2020 3:35:21PM

Arsenic, Total	0.122	0.000500	mg/L	0.100	0.00197	120	70-130	10.1	20	
Barium, Total	0.178	0.00300	mg/L	0.100	0.0600	118	70-130	19.3	20	
Cadmium, Total	0.116	0.00100	mg/L	0.100	ND	116	70-130	9.22	20	
Chromium, Total	0.118	0.00300	mg/L	0.100	ND	118	70-130	5.92	20	
Lead, Total	0.118	0.000500	mg/L	0.100	0.000152	118	70-130	17.3	20	
Selenium, Total	0.117	0.00500	mg/L	0.100	ND	117	70-130	17.4	20	
Silver, Total	0.112	0.000500	mg/L	0.100	ND	112	70-130	9.78	20	

Batch B0E1212 - No Prep

Blank (B0E1212-BLK1)

Prepared & Analyzed: 5/11/2020 3:39:00PM

Nitrate+Nitrite as N	ND	0.02	mg/L							
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LCS (B0E1212-BS1)

Prepared & Analyzed: 5/11/2020 3:39:00PM

Nitrate+Nitrite as N	0.920		mg/L	1.00		92.0	90-110			
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Matrix Spike (B0E1212-MS1)

Source: C0E0855-01

Prepared & Analyzed: 5/11/2020 3:39:00PM

Nitrate+Nitrite as N	1.10	0.02	mg/L	1.00	0.110	99.0	80-120			
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Matrix Spike Dup (B0E1212-MSD1)

Source: C0E0855-01

Prepared & Analyzed: 5/11/2020 3:39:00PM

Nitrate+Nitrite as N	1.04	0.02	mg/L	1.00	0.110	93.0	80-120	5.61	20	
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Texas A and M AgriLife
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 Houston TX, 77058

SM 4500 NH3 G - Quality Control
Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0E1394 - No Prep										
Blank (B0E1394-BLK1)				Prepared & Analyzed: 5/12/2020 3:35:00PM						
Ammonia as N	ND	0.1	mg/L							
LCS (B0E1394-BS1)				Prepared & Analyzed: 5/12/2020 3:33:00PM						
Ammonia as N	2.14		mg/L	2.00		107	90-110			
Matrix Spike (B0E1394-MS1)				Source: C0E1501-01 Prepared & Analyzed: 5/12/2020 3:37:00PM						
Ammonia as N	2.5	0.1	mg/L	2.50	0.1	95.1	80-120			
Matrix Spike Dup (B0E1394-MSD1)				Source: C0E1501-01 Prepared & Analyzed: 5/12/2020 3:38:00PM						
Ammonia as N	2.4	0.1	mg/L	2.50	0.1	91.2	80-120	3.92	20	
Batch B0E1922 - No Prep- Organic										
Blank (B0E1922-BLK1)				Prepared & Analyzed: 5/15/2020 4:40:00PM						
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	37.6		mg/L	33.3		113	70-130			
Surrogate: o-Terphenyl	38.6		mg/L	33.3		116	70-130			
LCS (B0E1922-BS1)				Prepared & Analyzed: 5/15/2020 6:09:00PM						
TPH (>C6 - C12)	34.1	2.00	mg/L	33.3		102	70-130			
TPH (>C12 - C28)	33.3	2.00	mg/L	33.3		99.9	70-130			
TPH (>C28 - C35)	63.3	5.00	mg/L	66.7		94.9	70-130			
Surrogate: 1-Chlorooctane	39.3		mg/L	33.3		118	70-130			
Surrogate: o-Terphenyl	38.2		mg/L	33.3		115	70-130			
Matrix Spike (B0E1922-MS1)				Source: C0E1503-01 Prepared & Analyzed: 5/15/2020 6:54:00PM						
TPH (>C6 - C12)	33.8	2.00	mg/L	33.3	ND	101	70-130			
TPH (>C12 - C28)	32.5	2.00	mg/L	33.3	ND	97.4	70-130			
TPH (>C28 - C35)	61.9	5.00	mg/L	66.7	ND	92.9	70-130			
Surrogate: 1-Chlorooctane	39.5		mg/L	33.3		118	70-130			
Surrogate: o-Terphenyl	37.8		mg/L	33.3		113	70-130			
Matrix Spike Dup (B0E1922-MSD1)				Source: C0E1503-01 Prepared & Analyzed: 5/15/2020 7:38:00PM						
TPH (>C6 - C12)	33.7	2.00	mg/L	33.3	ND	101	70-130	0.183	25	
TPH (>C12 - C28)	32.0	2.00	mg/L	33.3	ND	96.0	70-130	1.46	25	

Eastex Environmental Laboratory - Coldspring

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TX 1005 - Quality Control
Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0E1922 - No Prep- Organic										
Matrix Spike Dup (B0E1922-MSD1)		Source: C0E1503-01			Prepared & Analyzed: 5/15/2020 7:38:00PM					
TPH (>C28 - C35)	61.0	5.00	mg/L	66.7	ND	91.5	70-130	1.55	25	
Surrogate: 1-Chlorooctane	38.8		mg/L	33.3		117	70-130			
Surrogate: o-Terphenyl	37.0		mg/L	33.3		111	70-130			
Batch B0E2085 - EPA 200.7										
Blank (B0E2085-BLK1)					Prepared & Analyzed: 5/26/2020 9:07:58AM					
Total Phosphorus	ND	0.0600	mg/L							
Blank (B0E2085-BLK2)					Prepared & Analyzed: 5/26/2020 10:06:54AM					
Total Phosphorus	ND	0.0600	mg/L							
Blank (B0E2085-BLK3)					Prepared & Analyzed: 5/26/2020 11:05:55AM					
Total Phosphorus	ND	0.0600	mg/L							
LCS (B0E2085-BS1)					Prepared & Analyzed: 5/26/2020 9:11:27AM					
Total Phosphorus	2.83	0.0600	mg/L	2.52		112	85-115			
LCS (B0E2085-BS2)					Prepared & Analyzed: 5/26/2020 12:11:39PM					
Total Phosphorus	2.35	0.0600	mg/L	2.52		93.2	85-115			
LCS (B0E2085-BS3)					Prepared & Analyzed: 5/26/2020 12:25:31PM					
Total Phosphorus	2.28	0.0600	mg/L	2.52		90.5	85-115			
LCS Dup (B0E2085-BSD1)					Prepared & Analyzed: 5/26/2020 9:14:54AM					
Total Phosphorus	2.88	0.0600	mg/L	2.52		114	85-115	1.74	20	
LCS Dup (B0E2085-BSD2)					Prepared & Analyzed: 5/26/2020 12:15:07PM					
Total Phosphorus	2.26	0.0600	mg/L	2.52		89.8	85-115	3.71	20	
LCS Dup (B0E2085-BSD3)					Prepared & Analyzed: 5/26/2020 12:29:00PM					
Total Phosphorus	2.31	0.0600	mg/L	2.52		91.7	85-115	1.32	20	
MRL Check (B0E2085-MRL1)					Prepared & Analyzed: 5/26/2020 9:04:30AM					
Total Phosphorus	0.0449		mg/L	0.0600		74.8	0-200			
Matrix Spike (B0E2085-MS1)		Source: C0E0126-01			Prepared & Analyzed: 5/26/2020 12:04:06PM					
Total Phosphorus	2.97	0.0600	mg/L	2.52	0.216	109	70-130			
Matrix Spike (B0E2085-MS2)		Source: C0E1503-01			Prepared & Analyzed: 5/26/2020 12:18:35PM					

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EPA 200.7 - Quality Control
Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0E2085 - EPA 200.7										
Matrix Spike (B0E2085-MS2)		Source: C0E1503-01			Prepared & Analyzed: 5/26/2020 12:18:35PM					
Total Phosphorus	2.29	0.0600	mg/L	2.52	0.0126	90.3	70-130			
Matrix Spike (B0E2085-MS3)		Source: C0E3033-03			Prepared & Analyzed: 5/26/2020 12:32:29PM					
Total Phosphorus	2.23	0.0600	mg/L	2.52	0.0375	86.9	70-130			



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Houston TX, 77058

Notes and Definitions

- I2 CCV associated with sample batch did not meet acceptance criteria.
- 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



EASTEX ENVIRONMENTAL LABORATORY, INC.
 P. O. Box 1089 • Goldspring, TX 77331 P. O. Box 631375 • Nacogdoches, TX 75963-1375
 (936) 653-3249 • (800) 525-0508 (936) 569-8879 • FAX (936) 569-8951
 www.eastexlabs.com

White Copy-Follows Samples
 Yellow Copy-Laboratory
 Pink Copy-Client Copy

REPORT TO: Christie Taylor

INVOICE TO: Christie Taylor

Company: TECOP/AgriLife Extension

Company: TECOP/AgriLife Extension

Remarks:

Address: 1335 Regents Park Dr. Ste 200

Address: Regents Park Dr. Suite 200

City: Houston TX 77058

City: Houston TX 77058

Attn:

Attn:

Phone#: 979-399-4009

Phone#: 979-399-41009

Email: cedaylor@tamu.edu

INSTRUCTIONS:

P.O. #:

C or G: C=Composite G=Grab
 Matrix: DW=Drinking Water WW=Wastewater SO=Soil/Sludge OT=Other
 Container Size: 1=Gallon 2=1/2 Gallon 3=Quart/Liter 4=500ml 5=250ml
 6=125ml (4oz) 7=60ml (2 oz) 8=40ml Vial 9=Other
 Type: P=Plastic G=Glass T=Teflon S=Stainless
 Preservatives: C=Chilled S=Sulfuric Acid N=Nitric Acid B=Base/Caustic Z=Zn Acetate
 ST=Sodium Thiosulfate H=HCL O=Other

Sampler's Name (print): Christie Taylor

Sampler's Signature: Christie Taylor

Project Name: Stormwater Sampling

Work Order ID: CE18c4

Sample ID: 301-2

Date: 5/16/20

Time: 8:11

Matrix: W

C or G: C

DO: 7.4

pH: 8.61

CI2: —

Flow: —

Temp: 24.58

#: 1

Size: 3

Type: P

pres: 2

Received By: Christie Taylor

Received Date: 5-16-20

Received Time: 1:50

Received By: Michelle

Received Date: 5-16-20

Received Time: 1:53

Received By: Michelle

Received Date: 5-16-20

Received Time: 1:53

Received By: Michelle

Received Date: 5-16-20

Received Time: 1:53

Received By: Michelle

Received Date: 5-16-20

Received Time: 1:53

Received Iced: YES / NO

Received Iced: YES / NO

Received Iced: YES / NO

ANALYSIS REQUESTED

TSS
 Total phosphate
 NO₂ + NO₃
 NH₃-N
 E coli
 RCRA Metals
 TPH

Chain of Custody Revision 3: 05/01/18

Eastex Environmental Laboratory, Inc.

*Thermometer has 0.0 factor and recorded temperature is actual temperature