



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 C0E1503. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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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 08:47  
 Collector: CT  
 Sample Type: Grab  
 Print Date: 6/1/2020

302-2  
 C0E1503-01 (Water)

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed Date & Time	Method	Notes
<b><u>Metals</u></b>								
Arsenic, Total	0.00159	0.000500	mg/L	A	B0E1061	05/11/2020 21:20	EPA 200.8	
Barium, Total	0.0274	0.00300	mg/L	A	B0E1061	05/11/2020 21:20	EPA 200.8	12
Cadmium, Total	<0.00100	0.00100	mg/L	A	B0E1061	05/11/2020 21:20	EPA 200.8	
Chromium, Total	0.00451	0.00300	mg/L	A	B0E1061	05/11/2020 21:20	EPA 200.8	
Lead, Total	0.000800	0.000500	mg/L	A	B0E1061	05/11/2020 21:20	EPA 200.8	12
Mercury, Total	<0.000200	0.000200	mg/L	A	B0E0765	05/07/2020 16:02	EPA 245.1	
Selenium, Total	<0.00500	0.00500	mg/L	A	B0E1061	05/11/2020 21:20	EPA 200.8	
Silver, Total	<0.000500	0.000500	mg/L	A	B0E1061	05/11/2020 21:20	EPA 200.8	
Total Phosphorus	<0.0600	0.0600	mg/L	A	B0E2085	05/26/2020 10:17	EPA 200.7	

### Microbiological Lab

E coli IDEXX	1920	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	05/20/2020 13:31	TX 1005	
TPH (>C12 - C28)	<2.00	2.00	mg/L	A	B0E1922	05/20/2020 13:31	TX 1005	
TPH (>C28 - C35)	<5.00	5.00	mg/L	A	B0E1922	05/20/2020 13:31	TX 1005	
Total TPH (>C6-C35)	<5.00	5.00	mg/L		B0E1922	05/20/2020 13:31	TX 1005	
Surrogate: 1-Chlorooctane			109 %		B0E1922	05/20/2020 13:31	TX 1005	
Surrogate: o-Terphenyl			107 %		B0E1922	05/20/2020 13:31	TX 1005	

### Wet Lab

Ammonia as N	0.1	0.1	mg/L	A	B0E1394	05/12/2020 15:44	SM 4500 NH3 G	
Nitrate+Nitrite as N	0.58	0.02	mg/L	A	B0E1212	05/11/2020 15:39	SM 4500 NO3 F	
TSS	24.8	1.0	mg/L	A	B0E0773	05/07/2020 14:32	SM 2540 D	

Eastex Environmental Laboratory - Coldspring

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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
<b>Batch B0E0765 - EPA 245.1</b>										
<b>Blank (B0E0765-BLK1)</b> Prepared & Analyzed: 5/7/2020 2:37:01PM										
Mercury, Total	ND	0.000200	mg/L							
<b>LCS (B0E0765-BS1)</b> Prepared & Analyzed: 5/7/2020 2:41:03PM										
Mercury, Total	0.00269	0.000200	mg/L	0.00250		108	75-115			
<b>Matrix Spike (B0E0765-MS1)</b> 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			
<b>Matrix Spike Dup (B0E0765-MSD1)</b> 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	
<b>Batch B0E0773 - No Prep</b>										
<b>Blank (B0E0773-BLK1)</b> Prepared & Analyzed: 5/7/2020 2:32:00PM										
TSS	ND	1.0	mg/L							
<b>Duplicate (B0E0773-DUP1)</b> Source: C0E0755-01 Prepared & Analyzed: 5/7/2020 2:32:00PM										
TSS	86.0	1.0	mg/L		84.0			2.35	10	
<b>Batch B0E0901 - No Prep Micro</b>										
<b>Blank (B0E0901-BLK1)</b> Prepared & Analyzed: 5/6/2020 3:45:00PM										
E coli IDEXX	ND	1	mpn/100ml							
<b>Duplicate (B0E0901-DUP1)</b> Source: C0E0978-01 Prepared & Analyzed: 5/6/2020 3:45:00PM										
E coli IDEXX	ND	2	mpn/100ml		ND				200	
<b>Batch B0E1061 - EPA 200.8</b>										
<b>Blank (B0E1061-BLK1)</b> 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							
<b>LCS (B0E1061-BS1)</b> 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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**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
<b>Batch B0E1061 - EPA 200.8</b>										
<b>LCS (B0E1061-BS1)</b>										
<b>Prepared &amp; Analyzed: 5/11/2020 3:14:53PM</b>										
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			
<b>Matrix Spike (B0E1061-MS1)</b>										
<b>Source: C0E0728-01</b>										
<b>Prepared &amp; Analyzed: 5/11/2020 3:30:17PM</b>										
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			
<b>Matrix Spike Dup (B0E1061-MSD1)</b>										
<b>Source: C0E0728-01</b>										
<b>Prepared &amp; Analyzed: 5/11/2020 3:35:21PM</b>										
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	
<b>Batch B0E1212 - No Prep</b>										
<b>Blank (B0E1212-BLK1)</b>										
<b>Prepared &amp; Analyzed: 5/11/2020 3:39:00PM</b>										
Nitrate+Nitrite as N	ND	0.02	mg/L							
<b>LCS (B0E1212-BS1)</b>										
<b>Prepared &amp; Analyzed: 5/11/2020 3:39:00PM</b>										
Nitrate+Nitrite as N	0.920		mg/L	1.00		92.0	90-110			
<b>Matrix Spike (B0E1212-MS1)</b>										
<b>Source: C0E0855-01</b>										
<b>Prepared &amp; Analyzed: 5/11/2020 3:39:00PM</b>										
Nitrate+Nitrite as N	1.10	0.02	mg/L	1.00	0.110	99.0	80-120			
<b>Matrix Spike Dup (B0E1212-MSD1)</b>										
<b>Source: C0E0855-01</b>										
<b>Prepared &amp; Analyzed: 5/11/2020 3:39:00PM</b>										
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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 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
<b>Batch B0E1394 - No Prep</b>										
<b>Blank (B0E1394-BLK1) Prepared &amp; Analyzed: 5/12/2020 3:35:00PM</b>										
Ammonia as N	ND	0.1	mg/L							
<b>LCS (B0E1394-BS1) Prepared &amp; Analyzed: 5/12/2020 3:33:00PM</b>										
Ammonia as N	2.14		mg/L	2.00		107	90-110			
<b>Matrix Spike (B0E1394-MS1) Source: C0E1501-01 Prepared &amp; Analyzed: 5/12/2020 3:37:00PM</b>										
Ammonia as N	2.5	0.1	mg/L	2.50	0.1	95.1	80-120			
<b>Matrix Spike Dup (B0E1394-MSD1) Source: C0E1501-01 Prepared &amp; Analyzed: 5/12/2020 3:38:00PM</b>										
Ammonia as N	2.4	0.1	mg/L	2.50	0.1	91.2	80-120	3.92	20	
<b>Batch B0E1922 - No Prep- Organic</b>										
<b>Blank (B0E1922-BLK1) Prepared &amp; Analyzed: 5/15/2020 4:40:00PM</b>										
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			
<b>LCS (B0E1922-BS1) Prepared &amp; Analyzed: 5/15/2020 6:09:00PM</b>										
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			
<b>Matrix Spike (B0E1922-MS1) Source: C0E1503-01 Prepared &amp; Analyzed: 5/15/2020 6:54:00PM</b>										
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			
<b>Matrix Spike Dup (B0E1922-MSD1) Source: C0E1503-01 Prepared &amp; Analyzed: 5/15/2020 7:38:00PM</b>										
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	

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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
<b>Batch B0E1922 - No Prep- Organic</b>										
<b>Matrix Spike Dup (B0E1922-MSD1)</b>		<b>Source: C0E1503-01</b>			<b>Prepared &amp; Analyzed: 5/15/2020 7:38:00PM</b>					
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			
<b>Batch B0E2085 - EPA 200.7</b>										
<b>Blank (B0E2085-BLK1)</b>		<b>Prepared &amp; Analyzed: 5/26/2020 9:07:58AM</b>								
Total Phosphorus	ND	0.0600	mg/L							
<b>Blank (B0E2085-BLK2)</b>		<b>Prepared &amp; Analyzed: 5/26/2020 10:06:54AM</b>								
Total Phosphorus	ND	0.0600	mg/L							
<b>Blank (B0E2085-BLK3)</b>		<b>Prepared &amp; Analyzed: 5/26/2020 11:05:55AM</b>								
Total Phosphorus	ND	0.0600	mg/L							
<b>LCS (B0E2085-BS1)</b>		<b>Prepared &amp; Analyzed: 5/26/2020 9:11:27AM</b>								
Total Phosphorus	2.83	0.0600	mg/L	2.52		112	85-115			
<b>LCS (B0E2085-BS2)</b>		<b>Prepared &amp; Analyzed: 5/26/2020 12:11:39PM</b>								
Total Phosphorus	2.35	0.0600	mg/L	2.52		93.2	85-115			
<b>LCS (B0E2085-BS3)</b>		<b>Prepared &amp; Analyzed: 5/26/2020 12:25:31PM</b>								
Total Phosphorus	2.28	0.0600	mg/L	2.52		90.5	85-115			
<b>LCS Dup (B0E2085-BSD1)</b>		<b>Prepared &amp; Analyzed: 5/26/2020 9:14:54AM</b>								
Total Phosphorus	2.88	0.0600	mg/L	2.52		114	85-115	1.74	20	
<b>LCS Dup (B0E2085-BSD2)</b>		<b>Prepared &amp; Analyzed: 5/26/2020 12:15:07PM</b>								
Total Phosphorus	2.26	0.0600	mg/L	2.52		89.8	85-115	3.71	20	
<b>LCS Dup (B0E2085-BSD3)</b>		<b>Prepared &amp; Analyzed: 5/26/2020 12:29:00PM</b>								
Total Phosphorus	2.31	0.0600	mg/L	2.52		91.7	85-115	1.32	20	
<b>MRL Check (B0E2085-MRL1)</b>		<b>Prepared &amp; Analyzed: 5/26/2020 9:04:30AM</b>								
Total Phosphorus	0.0449		mg/L	0.0600		74.8	0-200			
<b>Matrix Spike (B0E2085-MS1)</b>		<b>Source: C0E0126-01</b>			<b>Prepared &amp; Analyzed: 5/26/2020 12:04:06PM</b>					
Total Phosphorus	2.97	0.0600	mg/L	2.52	0.216	109	70-130			
<b>Matrix Spike (B0E2085-MS2)</b>		<b>Source: C0E1503-01</b>			<b>Prepared &amp; Analyzed: 5/26/2020 12:18:35PM</b>					

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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
<b>Batch B0E2085 - EPA 200.7</b>										
<b>Matrix Spike (B0E2085-MS2)</b>		<b>Source: C0E1503-01</b>			<b>Prepared &amp; Analyzed: 5/26/2020 12:18:35PM</b>					
Total Phosphorus	2.29	0.0600	mg/L	2.52	0.0126	90.3	70-130			
<b>Matrix Spike (B0E2085-MS3)</b>		<b>Source: C0E3033-03</b>			<b>Prepared &amp; Analyzed: 5/26/2020 12:32:29PM</b>					
Total Phosphorus	2.23	0.0600	mg/L	2.52	0.0375	86.9	70-130			



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### Notes and Definitions

- 12      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.**  
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 (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: *TCIOP/AGRI LK EXL*

Company: *TCIOP/AGRI LK EXL*

Remarks:

Address: *1335 Regent's Park Dr Ste 2100*

Address: *1335 Regent's Park Dr Ste 2100*

Attn:

Attn:

Phone#: *979-399-4009*

Phone#: *979-399-4009*

Email: *ctaylor@tamueda*

P.O. #:

Sampler's Name (print): *Christie Taylor*

Sampler's Signature: *Christie Taylor*

Project Name: *Stormwater Sampling*

Work Order ID: *CE1503*

Sample ID: *302-a*

Date: *5/6/00*

Time: *8:47 AM*

Matrix: *C*

C or G: *C*

DO: *8.3*

pH: *8.56*

CI2: *-*

Flow: *-*

Temp: *24.30*

#: *1*

Size: *3*

Type: *P*

Pres: *C*

Date: *5-6-00*

Time: *1:50*

Date: *5-6-00*

Time: *1:53*

ANALYSIS REQUESTED

- TSS
- Total phosphate
- NO<sub>2</sub> + NO<sub>3</sub>
- N-H<sub>3</sub>N
- E. coli
- RCRA Metals
- TPH

Relinquished By: *Christie Taylor*

Received By: *Will N...*

Date: *5-6-00*

Time: *1:50*

Received Iced:  YES / NO

Relinquished By: *[Signature]*

Received By and/or Checked in By: *[Signature]*

Date: *[Blank]*

Time: *1:53*

Received Iced:  YES / NO

LAB USE ONLY

Sample Condition Acceptable:  YES / NO

Date: *5/6/00*

Temp C: *25*

\*Therm ID: *13*

Logged In By: *[Signature]*

Date: *5/6/00*

Received Iced:  YES / NO

\*Thermometer has 0.0 factor and recorded temperature is actual temperature