





## APPENDIX B

**\*\*\* SERVICE REPORT \*\*\***

BETHEL TOWNSHIP SEWER AUTHORITY  
1082 BETHEL ROAD  
GARNET VALLEY, PA 19060

**SERVICE DATE:** APRIL 06, 2018  
**METER#:** C1443 AA  
**LOCATION:** SHARON DRIVE  
**SERIAL #:** 901892/176043-003  
**MANUFACTURER:** BADGER/PARTLOW  
**RECORDER:** MRC 5000  
**TRANSMITTER:** 2100  
**PRIMARY:** FLUME MANHOLE 8  
**MAXIMUM CAPACITY:** 550 GPM  
**SERVICE CONTRACT:** ANNUAL

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**\*\*\* WORK PERFORMED \*\*\***

**TRANSMITTER CALIBRATION**  
LEVEL MEASUREMENTS AND FLOW CHECKS  
**ERROR:** -0.05" **TOLERANCE:**  $\pm 0.125$

**RECORDER CALIBRATION**  
**CHECKED AT:** 0,50,100 **ERROR:** 0,0,0% **TOLERANCE:**  $\pm 1\%$

**TOTALIZER CALIBRATION**  
**CHECKED AT:** 0, 50, 100% **ERROR:** 0,0,0% **TOLERANCE:**  $\pm \frac{1}{2}\%$

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**\*\*\* TECHNICIAN COMMENTS \*\*\***

PERFORMED ANNUAL CALIBRATION  
CLEANED PRIMARY  
VERIFIED TOTALIZER (PASSED)  
TESTED 4-20MA LOOP  
NO ADJUSTMENT NEEDED  
LEFT EQUIPMENT OPERATING PROPERLY

**SERVICE REPRESENTATIVE(S):** DENNIS WEIDNER, JACOB BROWN

**\*\*\* SERVICE REPORT \*\*\***

BETHEL TOWNSHIP SEWER AUTHORITY  
1082 BETHEL ROAD  
GARNET VALLEY, PA 19060

**SERVICE DATE:** APRIL 06, 2018

**METER#:** C1443 AB

**LOCATION:** PYLE ROAD PUMP STATION

**SERIAL #:** 409C-5678

**MANUFACTURER:** CONTROL ELECTRONICS

**TRANSMITTER:** PSM 660

**PRIMARY:** WET WELL

**MAXIMUM CAPACITY:** 500 GPM

**SERVICE CONTRACT:** ANNUAL

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**\*\*\* WORK PERFORMED \*\*\***

**TRANSMITTER CALIBRATION**

VOLUMETRIC TEST

**ERROR:** -23% **TOLERANCE:**  $\pm 1\%$

**RECORDER CALIBRATION**

**CHECKED AT:** N/A **ERROR:** % **TOLERANCE:** N/A

**TOTALIZER CALIBRATION**

**CHECKED AT:** OPERATING VALUE **ERROR:** % **TOLERANCE:**  $\pm 1\%$

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**\*\*\* TECHNICIAN COMMENTS \*\*\***

PERFORMED ANNUAL CALIBRATION  
VERIFIED TOTALIZER (PASSED)  
ADJUSTED EQUIPMENT  
LEFT EQUIPMENT OPERATING PROPERLY

**SERVICE REPRESENTATIVE(S):** JACOB BROWN, DENNIS WEIDNER



**\*\*\* SERVICE REPORT \*\*\***

BETHEL TOWNSHIP SEWER AUTHORITY  
1082 BETHEL ROAD  
GARNET VALLEY, PA 19060

**SERVICE DATE:** APRIL 06, 2018

**METER#:** C1443 AC

**LOCATION:** ZEBLEY ROAD PUMP STATION

**SERIAL #:** M2074716000

**MANUFACTURER:** ENDRESS+HAUSER

**TRANSMITTER:** PROMAG 50

**PRIMARY:** 6

**MAXIMUM CAPACITY:** 600 GPM

**SERVICE CONTRACT:** ANNUAL

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**\*\*\* WORK PERFORMED \*\*\***

**TRANSMITTER CALIBRATION**

VOLUMETRIC TEST

**ERROR:** 0.00% **TOLERANCE:**  $\pm 1\%$

**RECORDER CALIBRATION**

**CHECKED AT:** N/A **ERROR:** % **TOLERANCE:** N/A

**TOTALIZER CALIBRATION**

**CHECKED AT:** OPERATING VALUE **ERROR:** 0% **TOLERANCE:**  $\pm 1\%$

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**\*\*\* TECHNICIAN COMMENTS \*\*\***

PERFORMED ANNUAL CALIBRATION

VERIFIED TOTALIZER (PASSED)

NO ADJUSTMENT NEEDED

LEFT EQUIPMENT OPERATING PROPERLY

**SERVICE REPRESENTATIVE(S):** DENNIS WEIDNER, JACOB BROWN



## APPENDIX C



# Sanitary Sewer Overflow (SSO) Report to PADEP- Water Management

DEP fax: 484-250-5971

Please check the appropriate box ☒ Dry Weather Overflow ☐ Wet Weather Overflow

1. Date, Name, Phone # of person completing this report	Walter Fazler, Bradford Engineering, 610-497-6200 x111
2. Your organization name and address ?	Name: Bethel Township Sewer Authority County: Delaware Address: 1082 Bethel Road Township/Municipality: Bethel Township
Sewer system owner and permit number	Bethel Township Sewer Authority - WQG02230505
3. Date found and <u>specific</u> location of SSO. Including Municipality/County (if different from #2) ?	Date: 11-8-18 Municipality: Bethel Township Location( Street & #): Easement behind Old Post Circle County: Delaware
4. How was SSO discovered? By whom ?	Authority's Maintenance personnell
5. Start and end time of SSO (actual or estimate?)	Start Time - Unknown; End time 1 PM 11-8-18
6. Date, time and name of person who called PADEP originally to notify of SSO ?	Date : 1-8-18 Time : 2:00pM Name : Walter Fazler
7. Description and actual or estimated volume of SSO	Unknown.
8. Where, <u>precisely</u> , did SSO go ? (land, roadway, basement, swale, storm sewer, creek, etc) Please include creek name or street location.	small tributary to south branch of Naamans Creek
9. What caused SSO ? How was it stopped ?	When the sewage force main was exposed, a 2' crack was discovered. The cause of the break is still under investigation.
10. Describe extent of contamination and how it was cleaned up	Sewage surfaced at the point of the break and ran above ground to the creek. What appeared to be evidence of sewage was found from the break approximately 200 feet downstream.
11. What actions will be taken to prevent a re-occurrence ? When ?	BTSA walks all of its easements on a rotating schedule to look for potential problems. There is no way to predict a broken force main. We do our best to discover and repair them quickly.
12. Other comments ?	The Zebbley Road pump station was installed 25 years ago to bypass sewage around a problem area in the New Castel Delaware system. Fortunately, a diversion channel was in place to allow us to shut this station down in the event of catastrophic failure of the station or force main. This diversion was used until the force main was put back on line. KBX was used to make the repair and clean up the site at the direction of PaDEP. There was no evidence of a fish kill found during the clean up.
13. Downstream notifications made: (All downstream users such as public water supplies must be notified)	None