Outfall CDK1 (7/30/2020)



OUTFALL RECURNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data Toms Creek-Middle Mainstem Subwatershed: Outfall ID: (Map 10 1 Today's date: 30 2020 Time (Military): 11:56 Investigators: SAR SAR Form completed by: 89°E Rainfall (in.): Last 24 hours: 0 Temperature (°F): Last 48 hours: Latitude: 39.707674 Longitude: -77.325208 GPS Unit: Tombol & Geo 74 GPS LMK #: Photo #s: Camera: Phone 11

☐ Industrial	Open Space	
Ultra-Urban Residential	☐ Institutional	
☑ Suburban Residential	Other: Forest	
☐ Commercial	Known Industries:	
Notes (e.g.,, origin of outfall, if known):		8

Section 2: Outfall Description

Land Use in Drainage Area (Check all that apply):

LOCATION	MA'	TERIAL		SHAPE	DIMENSIONS (IN.)	SUBMERGED
☑ Closed Pipe	☐ RCP ☐ PVC ☐ Steel ☐ Other:	□ CMP □ HDPE	Circular Eliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions:	In Water: No Partially Fully With Seducent: No Partially Fully
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:	
☐ In-Stream	(applicable	when collecting	samples)			
Flow Present?	☐ Yes	No	If No,	Skip to Section 5		
Flow Description (If present)	Trickle	☐ Moderat	e Substantial			97003

Section 3: Quantitative Characterization

		FIELD DATA FOR FLOWIN	IG OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
☐Flow #1	Volume		Liter	Bottle
□Liow #1	Time to fill		Sec	
	Flow depth		ln	Tape measure
☐Flow #2	Flow width	<u> </u>	Ft, In	Tape measure
□F10W #2	Measured length	s	Ft, In	Tape measure
	Time of travel		S	Stop watch
1	Temperature	V	°F	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Outfall CRC1 (7/30/2020)



OUTFALL RECGINAISSANCE INVENTORY/SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data Subwatershed: Tom's Creek middle mainstem Outfall ID: CRCI (Map 10 14) Today's date: 7/30/2020 Time (Military): Form completed by: SAQ Investigators: SAL 790F Last 48 hours: O Rainfall (in.): Last 24 hours: Temperature (°F): GPS Unit: Trombie Geo7 X Latitude: 39,714252 Longitude: -77. 334197 GPS LMK #: -Photo #s: Camera: iPhone 11 Land Use in Drainage Area (Check all that apply): Industrial Open Space Ultra-Urban Residential ☐ Institutional Suburban Residential Other: □ Commercial Known Industries: _ Notes (e.g.., origin of outfall, if known): **Section 2: Outfall Description DIMENSIONS (IN.)** LOCATION MATERIAL SHAPE SUBMERGED CMP □ RCP ☑ Circular Single Diameter/Dimensions: In Water: ☐ No ☐ Partially ☐ PVC ☐ HDPE ☐ Eliptical Double Fully Closed Pipe ☐ Steel ☐ Box ☐ Triple With Sediment: ☐ No ☐ Partially Other: _____ Other: ___ Other: __ ☐ Fully ☐ Concrete ☐ Trapezoid Depth: ____ ■ Earthen ☐ Parabolic Open drainage Top Width: _____ □ гір-гар Other: Bottom Width: Other: _ ☐ In-Stream (applicable when collecting samples) W No Flow Present? ☐ Yes If No, Skip to Section 5 Flow Description ☐ Trickle ☐ Moderate ☐ Substantial (If present) Section 3: Quantitative Characterization FIELD DATA FOR FLOWING OUTFALLS **PARAMETER** RESULT UNIT **EQUIPMENT** Volume Liter Bottle ☐Flow #1 Time to fill Sec Flow depth In Tape measure Flow width Ft, In Tape measure ☐Flow #2 Measured length Ft, In Tape measure Time of travel S Stop watch °F Temperature Thermometer pН pH Units Test strip/Probe

mg/L

Test strip

Ammonia

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? ☐ Yes [v	dicators for Flow ors Present in the fl	ow? ☐ Yes ☑ No (If No. Skip to Section 5)	
INDICATOR	CHECK if Present	DESCR	RELATIVE SEVERITY INDEX (1-3)
Odor		☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 Faint ☐ 2 Easily detected ☐ 3 Noticeable from a distance
Color		☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 — Faint colors in ☐ 2 — Clearly visible in ☐ 3 — Clearly visible in sample bottle sample bottle outfall flow
Turbidity		See severity	☐ I – Slight cloudiness ☐ 2 – Cloudy ☐ 3 – Opaque
Floatables -Does Not Include Trash!!		☐ Sewage (Toilet Paper, ctc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	□ 1 = Few/slight; origin not obvious □ 2 = Some: indications of origin (e.g., obvious oil obvious oil sheen, suds, or floating sanitary materials)
Section 5: Physical Indicators for Both Flowing and Non Are physical indicators that are not related to flow present?	dicators for Bot that are not relat	Section 5: Physical Indicators for Both Flowing and Non-Floying Outfalls Are physical indicators that are not related to flow present? Yes \(\simeg\) No \((\begin{array}{c} \lifting \lifting \) No, Skip to Section 6)	rtion 6)
INDICATOR	CHECK if Present	resent DESCRIPTION	COMMENTS
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corresion	nt
Deposits/Stains	回	Oily Grow Line Paint Other:	rusting stains where from was, sedime
Abnormal Vegetation		☐ Excessive ☐ Inhibited	
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	ייי
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:	
Section 6: Overall Outfall Characterization	tfall Characteriz	zation	
Unlikely	Potential (prese	Potential (presence of two or more indicators) Suspect (one or more in the suspect of two or more in the suspect of two or more in the suspect of two or more indicators)	Suspect (one or more indicators with a severity of 3)
Section 7: Data Collection	tion		
1. Sample for the lab?		□Yes ☑No	
2. If yes, collected from:	m:	☐ Flow ☐ Pool	
 Intermittent flow trap set? 	ap set?	\square Yes \square No If Yes, type: \square	☐ OBM ☐ Caulk dam

Outfall ITC1 (7/30/2020)



OUTFALL RECGINAISSANCE INVENTORY/SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data Subwatershed: Toms Creek-Middle Mainstem Outfall ID: ITC 1 (Map 10 20 Time (Military): Today's date: 7/30/2020 12:36 Investigators: SAR Form completed by: SAR 910F Rainfall (in.): Last 24 hours: Last 48 hours: Temperature (°F): GPS Unit: Trimble Geo 7 v 39.70941 Latitude: Longitude: -77.325584 GPS LMK #: Camera: Phone 11 Photo #s: Land Use in Drainage Area (Check all that apply): Industrial Open Space Ultra-Urban Residential ☐ Institutional Suburban Residential Other: ☐ Commercial Known Industries: __ Notes (e.g.., origin of outfall, if known): Section 2: Outfall Description LOCATION **MATERIAL** SHAPE **DIMENSIONS (IN.) SUBMERGED** In Water: M CMP Circular ? Single □ RCP Diameter/Dimensions: 12in ☐ PVC ☐ HDPE □ Eliptical ☐ Double Partially ☐ Fully Closed Pipe ☐ Steel ☐ Box ☐ Triple With Sediment: Other: ___ Other: Other: ٥لا□ Partially Fully Concrete Depth: ____ Trapezoid ☐ Earthen Open drainage Parabolic Top Width: rip-rap Other: ____ Bottom Width: Other: ■ In-Stream (applicable when collecting samples) No VE Flow Present? ☐ Yes If No, Skip to Section 5 Flow Description ☐ Trickle ☐ Moderate ■ Substantial (If present) Section 3: Quantitative Characterization FIELD DATA FOR FLOWING OUTFALLS **PARAMETER** UNIT RESULT **EQUIPMENT** Volume Bottle Liter Flow #1 Time to fill Sec Flow depth In Tape measure Flow width Ft, In Tape measure Flow #2 Measured length Ft, In Tape measure Time of travel S Stop watch Temperature ٥F Thermometer рΗ pH Units Test strip/Probe

mg/L

Test strip

Ammonia

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes CHECK if	dicators for Flow	No		
INDICATOR	CHECK if Present	DESCRIPTION		RELATIVE SEVERITY INDEX (1-3)
Odor		☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ I = Faint	
Color	0	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 — Faint colors in sample bottle	5
Turbidity		See severity	☐ 1 – Slight cloudiness	diness
Floatables -Does Not Include Trash!!		☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 = Few/slight; origin not obvious	ht; origin
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	dicators for Both	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes \(\sum \text{No}\) No \((\beta f No, Skip to Section 6)\)	tion 6)	
INDICATOR	CHECK if Present	DESCRIPTION	7	
Outfall Damage		☐ Spalling. Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	ıı ı	
Deposits/Stains	Ŋ	Oily Aflow Line Paint Wother:		Sedimuent
Abnormal Vegetation		☐ Excessive ☐ Inhibited		
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	ם	
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:		
Section 6: Overall Outfall Characterization	tfall Characteriza	ition		
Unlikely	Potential (presen		1/4	
Section 7: Data Collection	tion	Potential (presence of two or more indicators) Suspect (one or more indicators)	ndicato	s with a severity of 3)
1. Sample for the lab?		two or more indicators)	ndicator	
If yes, collected from:		two or more indicators)		with a severity of
	m:	two or more indicators)		th a severity of

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Sed munt build up inside could be stoped out

Outfall ITD1 (7/30/2020)



OUTFALL RECUNNAISSANCE INVENTORY/SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data Subwatershed: Toms Creek - middle mainstem Outfall ID: Map 10 21) Today's date: 7/30/2020 Time (Military): Investigators: Form completed by: Rainfall (in.): Last 24 hours: Temperature (°F): Last 48 hours: Latitude: 39.698855 Longitude: -77.317819 GPS Unit: Trimble GLO 7x GPS LMK #: Camera: Photo #s: Land Use in Drainage Area (Check all that apply): ☐ Industrial Open Space Ultra-Urban Residential ☐ Institutional Suburban Residential Other: Forest ☐ Commercial Known Industries: Notes (e.g.., origin of outfall, if known): Section 2: Outfall Description LOCATION MATERIAL SHAPE **DIMENSIONS (IN.)** SUBMERGED In Watery
No
Partially Circular Single Single ☐ RCP ☐ CMP Diameter/Dimensions: Corrugated 18:0 ☐ PVC Eliptical ☐ Double ☐ Fully Closed Pipe ☐ Steel □ Box ☐ Triple With Sediment: □ No
□ Partially Other: Other; ___ Other: __ Fully ☐ Concrete Depth: ____ □ Trapezoid ☐ Earthen Open drainage Parabolic Top Width: ___ ☐ rip-rap Other: Bottom Width: Other: ☐ In-Stream (applicable when collecting samples) ₩ No Flow Present? ☐ Yes If No, Skip to Section 5 Flow Description ☐ Trickle ☐ Moderate ☐ Substantial (If present) Section 3: Quantitative Characterization FIELD DATA FOR FLOWING OUTFALLS **PARAMETER RESULT** UNIT **EQUIPMENT** Volume Liter Bottle ☐Flow #1 Time to fill Sec Flow depth ln Tape measure Flow width Ft, In Tape measure ☐Flow #2 Measured length Ft, In Tape measure Time of travel S Stop watch Temperature ٥F Thermometer pΗ pH Units Test strip/Probe

mg/L

Test strip

Ammonia

Are Any Physical Indicators Present in the flow? Yes	No	(If No, Skip to Section 5)			
INDICATOR CHECK if Present	DESCR	ION	RELATIN	RELATIVE SEVERITY INDEX (1-3)	з)
Odor	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:		□ I – Faint	2 - Easily detected	☐ 3 – Noticeable from a distance
Color	☐ Clear ☐ Brown ☐ Gray ☐ Green ☐ Orange ☐ Red	☐ Yellow ☐	☐ 1 – Faint colors in ☐ sample bottle sar	2 - Clearly visible in [sample bottle	3 – Clearly visible in outfall flow
Turbidity	See severity		1 - Slight cloudiness	2 - Cloudy	☐ 3 — Opaque
Floatables -Does Not Include	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:		☐ 1 – Few/slight: origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 5: Physical Indicators for Both Flowing and Non-Are physical indicators that are not related to flow present?	n-Flowing Outf	alls No (If No, Skip to Section 6)	6)		
INDICATOR CHEC	CHECK if Present	DESCRIPTION	77 p.	COMMENTS	
Outfall Damage	Spalling, Cracking or Chipping Corrosion	Chipping Peeling Paint			
Deposits/Stains	☐ ☐ Oily ☐ Flow Line [Paint Other:	Sedment	of socials	flow lines
Abnormal Vegetation	☐ Excessive ☐ Inhibited	d			
Poor pool quality	□ □ Odors □ Colors □ Suds □ Excessive Algae	☐ Floatables ☐ Oil Sheen ve Algae ☐ Other:			
Pipe benthic growth	☐ Brown ☐ Orange	☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	terization				
Unlikely Potential (Potential (presence of two or more indicators)	☐ Suspect (one or more indicators	ators with a severity of 3)	Obvious	
Section 7: Data Collection					
1. Sample for the lab?	□ Yes ☐ Yo				
2. If yes, collected from:	☐ Flow ☐ Pool				
3. Intermittent flow trap set?	☐ Yes	If Yes, type: ☐ OBM	M ☐ Caulk dam		

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

lots of trush, debons a other items around outfall location, hard to get to

Outfall ITR1 (7/30/2020)



OUTFALL RECGIONAISSANCE INVENTORY/SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data Subwatershed: Tom's Creek-Middle Mainsten Outfall ID: Map 10 Today's date: 7/30/2020 Time (Military): 10:39 Investigators: SAR Form completed by: SAR Rainfall (in.): Last 24 hours: Last 48 hours: Temperature (°F): 84°F Longitude: - 77.327734 GPS Unit: Trimble Greo 7x Latitude: GPS LMK #: --39.707553 Camera: Photo #s: Phone II Land Use in Drainage Area (Check all that apply): ☐ Industrial Open Space Ultra-Urban Residential ☐ Institutional Other: Agriculture Suburban Residential ☐ Commercial Known Industries: Notes (e.g.., origin of outfall, if known): Section 2: Outfall Description LOCATION **MATERIAL** SHAPE **DIMENSIONS (IN.) SUBMERGED** Circular. Single RCP □ СМР Diameter/Dimensions: In Water: No 10 in HDPE ☐ PVC ☐ Eliptical Partially Double ☐ Fully Corrupted Closed Pipe ☐ Steel □ Box ☐ Triple With Sediment: Other: Other: ____ Other: ___ □\/No ☐ Partially Fully ☐ Concrete Depth: ____ ☐ Trapezoid Earthen Parabolic Open drainage Top Width: ___ ☐ rip-rap ☐ Other: _____ Bottom Width: Other: ☐ In-Stream (applicable when collecting samples) ₩ No Flow Present? ☐ Yes If No, Skip to Section 5 Flow Description ☐ Trickle ☐ Moderate ☐ Substantial (If present) Section 3: Quantitative Characterization FIELD DATA FOR FLOWING OUTFALLS **PARAMETER RESULT** UNIT **EQUIPMENT** Volume Liter Bottle ☐Flow #1 Time to fill Sec Flow depth In Tape measure Flow width Ft, In Tape measure ☐Flow #2 Measured length Ft, In Tape measure Time of travel S Stop watch Temperature ٥F Thermometer pН pH Units Test strip/Probe

mg/L

Test strip

Ammonia

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes \[\begin{array}{cccccccccccccccccccccccccccccccccccc	rs Present in the f	own G Unrails Only (if No, Skip to Section 5)			
INDICATOR	CHECK if Present	DESCR	R	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ I — Faint	2 - Easily detected	3 = Noticeable from a distance
Color		☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 = Faint colors in sample bottle	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbidity		See severity	☐ 1 – Slight cloudiness	2 – Cloudy	☐ 3 — Opaque
Floatables -Does Not include Trash!!		Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:	☐ I = Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	licators for Bot that are not relat	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes \(\sum No\) (If No, Skip to Section 6)	ion 6)		
INDICATOR	CHECK if Present	resent DESCRIPTION		COMMENTS	S
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion			
Deposits/Stains	Ŋ	Oily Selow Line Paint Other:	faint	-flow line sediment	est stain
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:) e		
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	fall Characteri	zation			
Unlikely	Potential (prese	Potential (presence of two or more indicators) Suspect (one or more indicators)	dicators with a severity of 3)	of 3) 🔲 Obvious	•
Section 7: Data Collection	r oronnar (brose				
 Sample for the lab? 	tion				
	tion	□ Yes ■ No			
2. If yes, confected from:	tion			:	

Outfall NSA1 (7/30/2020)



OUTFALL RECUMNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Back	ground Data					
Subwatershed:	Tom's Creek	- Midd	he Mainsten	Outfall ID:	JSAI (Map	D 25)
	7/30/2020			Time (Military):	11:42	
Investigators: S	AR			Form completed by	SAR	
Temperature (°F):	89°F	Rainfa	all (in.): Last 24 hours:	Last 48 hours:	0	
Latitude: 39.7	07914	Longitude: -	77.323296	GPS Unit: Trimb	le Geo 7x GPS LMK #	:
Camera: 1Ph	ione 11			Photo #s:		
Land Use in Draina	age Area (Check all that	apply):				
☐ Industrial				Open Space		
Ultra-Urban Re	esidential			Institutional		
Suburban Resid	lential			Other:		
☐ Commercial				Known Industries:		
Notes (e.g, origin	of outfall, if known):					
Section 2: Outfa	The state of the s	UAL	, SH/	APE,	DIMENSIONS (IN.)	SUBMERGED
	THE RESERVE TO SERVE THE RESERVE TO SERVE THE RESERVE TO SERVE THE RESERVE THE	СМР	Circular	☑ Single	Diameter/Dimensions:	In Water/
		— ☐ HDPE	☐ Eliptical	☐ Double	Hin	☑ No ☐ Partially
Closed Pipe	Steel	<u></u>	Box	☐ Triple		Fully
Closed Fipe						With Sedement:
	Other:		Other:	Other:		☑ No ☐ Partially ☐ Fully
	☐ Concrete		☐ Trapezoid		Depth:	
	☐ Earthen					
Open drainage	☐ rip-rap		Parabolic		Top Width:	
	Other:		Other;		Bottom Width:	
☐ In-Stream	(applicable who	en collecting	samples)			
Flow Present?	☐ Yes	☑ No	If No, Ski	p to Section 5		
Flow Description (If present)	Trickle	Moderate	: Substantial			
Section 3: Quan	titative Character	ization				energy in the part and factor with
	DAMETER		FIELD DATA FOR FL			
PA	Volume		RESULT			QUIPMENT
□Flow#1	Time to fill				Liter	Bottle
					Sec	·
-	Flow depth Flow width		1			ape measure
□Flow#2	Measured length		1 19			ape measure
-	Time of travel		· · · · · · · · · · · · · · · · · · ·			Stop watch
T.	emperature					Stop waten Thermometer
	pH				-	est strip/Probe
		-				
	Ammonia				mg/L	Test strip

11 AMAG 2.03 HAVE 1123 HAV	2 If was collected from:	1. Sample for the lab?	:	☐ Unlikely	Section 6: Overall Outfall Characterization	Pipe benthic growth	Poor pool quality Odors Colors Roatables Oil Sh Suds Excessive Algae Other	Abnormal Vegetation	Deposits/Stains 🗹 🗆 Oily 🗹 Flow Line 🗀 Paint 🗎 Other:	Outfall Damage	INDICATOR CHECK if Present DESCRIPTION	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes \sum No (If No. Skip to S)	Floatables -Does Not Include Trash!! Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:	Turbidity	Color Clear Brown Gray Yellow Green Orange Red Other:	Odor Sewage Rancid/sour Petroleun/gas	DESCR	Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes No (If No., Skip to Section 5)
				ne or more indicators with a severity of 3)		☐ Other:	Oil Sheen		faint f	Peeling Paint rusted		(If No, Skip to Section 6)	☐ 1 – Few/slight; origin not obvious	☐ 1 – Slight cloudiness ☐ 2 –	☐ 1 — Faint colors in ☐ 2 — sample bottle sampl	□ 1 – Faint □ 2 –		15)
				Obvious					lowling	-	COMMENTS		2 = Some; indications of origin (e.g., obvious oil sheen, suds, or floating sanitary materials)	☐ 2 – Cloudy ☐ 3 – Opaque	□ 2 - Clearly visible in □ 3 - Clearly visible in sample bottle outfall flow	- Easily detected 3 - Noticeable from a distance	RELATIVE SEVERITY INDEX (1-3)	

Outfall PBC1 (7/30/2020)



OUTFALL RECUNNAISSANCE INVENTORY/SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data Subwatershed: Toms Creek Middle Mainstern Outfall ID: PBC1 (Map 1026) Today's date: 7/30/2020 Time (Military): Investigators: Sourch Rosecrans Form completed by: SAR Last 48 hours: 780F Rainfall (in.): Last 24 hours: Temperature (°F): Longitude: -77.337686 GPS Unit: Trimble Geo 7x Latitude: 39.7155 86 GPS LMK #: Camera: 1Phone | Land Use in Drainage Area (Check all that apply): ☐ Industrial Open Space Ultra-Urban Residential ☐ Institutional Suburban Residential Other: ☐ Commercial Known Industries: Notes (e.g., origin of outfall, if known): **Section 2: Outfall Description** SHAPE LOCATION MATERIAL **DIMENSIONS (IN.)** SUBMERGED M CMP Single ☐ RCP Circular . Diameter/Dimensions: In Water No 15 in □ PVC ☐ Eliptical Partially ☐ HDPE □ Double Fully Closed Pipe ☐ Steel Box ☐ Triple With Sediment: No ☐ Partially Other: Other: ___ Other: Fully ☐ Concrete ☐ Trapezoid Depth: ____ Earthen Top Width: ___ Open drainage Parabolic пір-гар Other: ____ Bottom Width: ___ Other: _ (applicable when collecting samples) ☐ In-Stream M No Flow Present? ☐ Yes If No, Skip to Section 5 Flow Description ☐ Trickle ☐ Moderate ☐ Substantial (If present) Section 3: Quantitative Characterization **FIELD DATA FOR FLOWING OUTFALLS PARAMETER** RESULT UNIT **EQUIPMENT** Volume Liter Bottle Flow #1 Time to fill Sec Flow depth ln Tape measure Flow width Ft, In Tape measure ☐Flow #2 Measured length Ft, In Tape measure Time of travel S Stop watch ٥F Temperature Thermometer pН pH Units Test strip/Probe Ammonia mg/L Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes	ors Present in the fl	ving Outfalls Only ow? Tyes IV No (If No., Skip to Section 5)			
INDICATOR	CHECK if Present	DESCR	REL	RELATIVE SEVERITY INDEX (1-3)	1-3)
Odor		☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	2 - Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbidity		See severity	☐ 1 = Slight cloudiness	2 - Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ I = Few/slight; origin not obvious	2 – Some: indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	dicators for Botl	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes \(\sum \text{No}\) (If No, Skip to Section 6)	ection 6)		
INDICATOR	CHECK if Present	resent DESCRIPTION		COMMENTS	
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	aint	9	
Deposits/Stains	Z	Oily N Flow Line Paint Other:	faint	flow 1, re/500	Scoliner
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	cen	i	
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	tfall Characteriz	ation			
Unlikely	Potential (prese	Potential (presence of two or more indicators) Suspect (one or more indicators)	indicators with a severity of 3)	f 3) Dovious	
Section 7: Data Collection	tion				
1. Sample for the lab?		□Yes INo			
2. If yes, collected from:	m:	☐ Flow ☐ Pool	85		
Intermittent flow trap set?	ap set?	☐ Yes ☐ No If Yes, type: ☐	OBM Caulk dam		
))					

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

lots of fallen leaves

Outfall PBC2 (7/30/2020)



OUTFALL RECUNNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data Subwatershed: Tom's creek middle mainster Outfall ID: Map 1027) Today's date: 7/30/2020 Time (Military): Form completed by: Investigators: SAR Rainfall (in): Last 24 hours: 0 Last 48 hours: O Temperature (°F): 78°F Longitude: -77.3377 83 Latitude: GPS Unit: Trimble Geo 7x GPS LMK #: 39.713675 Camera: Photo #s: Land Use in Drainage Area (Check all that apply): ☐ Industrial Open Space Ultra-Urban Residential ☐ Institutional ▼ Suburban Residential Other: _ ☐ Commercial Known Industries: Notes (e.g.., origin of outfall, if known): **Section 2: Outfall Description** SHAPE LOCATION **MATERIAL DIMENSIONS (IN.)** SUBMERGED **☑** CMP Circular Single In Water No Partially Fully ☐ RCP Diameter/Dimensions: 5in ☐ PVC HDPE Eliptical □ Double Closed Pipe □ Box ☐ Steel ☐ Triple With Sediment: Other: _____ Other: Other: **☑** No Partially ☐ Fully ☐ Concrete □ Trapezoid Depth: ____ Earthen Open drainage Parabolic Top Width: _____ 🗌 гір-гар Other: Bottom Width: Other: ☐ In-Stream (applicable when collecting samples) Flow Present? ☐ Yes No. If No, Skip to Section 5 Flow Description ☐ Trickle ☐ Moderate ☐ Substantial (If present) Section 3: Quantitative Characterization FIELD DATA FOR FLOWING OUTFALLS **PARAMETER RESULT** UNIT **EQUIPMENT** Volume Liter Bottle ☐Flow #1 Time to fill Sec Flow depth In Tape measure Flow width Ft. In Tape measure ☐Flow #2 Measured length Ft, In Tape measure Time of travel S Stop watch Temperature or Thermometer pΗ pH Units Test strip/Probe

mg/L

Test strip

Ammonia

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes	dicators for Flovors Present in the fl	ving Outfalls Only ✓ ow? □ Yes □ No (If No. Skip to Section 5)			
INDICATOR	CHECK if Present	DESCR	REL	RELATIVE SEVERITY INDEX (1-3)	1-3)
Odor		☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ I — Faint	2 - Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbidity		See seventy	☐ 1 – Slight cloudiness	2 = Cloudy	3 – Opaque
Floatables -Does Not Include Trash!!		□ Sewage (Toilet Paper, etc.) □ Suds □ Petroleum (oil sheen) □ Other:	☐ 1 – Fcw/slight; origin not obvious	2 = Some; indications of origin (c.g., possible suds or oil sheen)	3 - Some: origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 5: Physical Indicators for Both Flowing and No. Are physical indicators that are not related to flow present?	dicators for Botl	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes \(\simeg\) No \((\begin{array}{c} \line{If No. Skip to Section 6}\)	ction 6)		
INDICATOR	CHECK if Present	DESCRIPTI		COMMENTS	
Outfall Damage		☐ Spalling. Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	nt		
Deposits/Stains	回	Oily Now Line Paint Other:	Flow	line (sechnen	+ deposit
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	en		:
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	tfall Characteriz	ation			
☐ Unlikely □	Potential (prese	Potential (presence of two or more indicators) Suspect (one or more indicators)	indicators with a severity of 3)	of 3) Dovious	
Section 7: Data Collection	ction	/			
1. Sample for the lab?	į	□ Yes ☑ No			
2. If yes, collected from:	om:	☐ Flow ☐ Pool			
3. Intermittent flow trap set?	ap set?	☐Yes ☐No If Yes, type: ☐	OBM Caulk dam		

Outfall PVP1 (7/30/2020)



OUTFALL RECGINALISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET Section 1: Background Data Subwatershed: Tome Creek middle Mainsten Outfall ID: (Map 10 28) PVPI 7/30/2020 Today's date: Time (Military): 10:00 Form completed by: Investigators: SAR 87°F Rainfall (in.): Last 24 hours: 7 Temperature (°F): Last 48 hours: 💋 Latitude: 39. 70839B Longitude: -77, 322228 GPS Unit: Trimble Greo 7 x GPS LMK #: --Camera: iPhone Photo #s: _ Land Use in Drainage Area (Check all that apply): Industrial Open Space Ultra-Urban Residential ■ Institutional Other: For est Suburban Residential ☐ Commercial Known Industries: Notes (e.g.., origin of outfall, if known): Section 2: Outfall Description LOCATION MATERIAL SHAPE **DIMENSIONS (IN.)** SUBMERGED **☑** CMP ☐ RCP Circular Single In Water:
No
Partially Diameter/Dimensions: ☐ PVC ☐ HDPE ☐ Eliptical □ Double Fully Closed Pipe ☐ Steel □ Box ☐ Triple With Sediment: ☑ No ☐ Partially Other: _____ Other: ___ Other: ___ ☐ Fully ☐ Concrete □ Trapezoid Depth: ____ ■ Earthen Open drainage ☐ Parabolic Top Width: ____ ☐ rip-rap Other: ____ Bottom Width: ___ Other: ☐ In-Stream (applicable when collecting samples) Flow Present? ☐ Yes Til No If No, Skip to Section 5 Flow Description ☐ Trickle ☐ Moderate ☐ Substantial (If present) Section 3: Quantitative Characterization

		FIELD DATA FOR FLOWIN	IG OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
□ C1 #1	Volume		Liter	Bottle
☐Flow#1	Time to fill		Sec	
	Flow depth		In	Tape measure
□¤#2	Flow width	,	Ft, In	Tape measure
☐Flow #2	Measured length	1 **	Ft, In	Tape measure
	Time of travel		S	Stop watch
P	Temperature		°F	Thermometer
	ρН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes	ors Present in the fl	wing Outtails Only / low? ☐ Yes ☑ No (If No, Skip to Section 5)			
INDICATOR	CHECK if Present	DESCR	RE	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		□ Sewage □ Rancid/sour □ Petroleum/gas □ Sulfide □ Other:	☐ 1 – Faint	2 - Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbidity		See severity	☐ 1 – Slight cloudiness	2 – Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	2 = Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 5: Physical Indicators for Both Flowing and Non-Are physical indicators that are not related to flow present?	dicators for Bot that are not relat	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes \(\sum \text{No}\) \(\left(\frac{1}{2}\) No \(\left(\frac{1}2\) No \(\	ection 6)		
INDICATOR Outfall Damage	CHECK if Present	resent DESCRIPTION ☐ Spalling, Cracking or Chipping ☐ Peeling Paint	aint	COMMENTS	K
Deposits/Stains	巨	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	50:10	deposits, faint	Stain in-s
Abnormal Vegetation		☐ Excessive ☐ Inhibited	:		(
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	een		
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other			
Section 6: Overall Outfall Characterization	tfall Characteri	zation			
Unlikely	Potential (prese	Potential (presence of two or more indicators) Suspect (one or more indicators)	indicators with a severity of 3)	of 3) Dovious	
Section 7: Data Collection					
1. Sample for the lab?	ction				
2. If yes, collected from:	ction	□ Yes ☑ No	į		
	ction	*			

Outfall PVP2 (7/30/2020)



OUTFALL RECUNNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data Subwatershed: Toms Creek - Middle Mainsten PVP 2 (Map 1 D 29) Outfall ID: Today's date: 7/30/2020 Time (Military): Investigators: SAA Form completed by: Temperature (°F): 870= Rainfall (in.): Last 24 hours: 70 Last 48 hours: Latitude: 39,708336 Longitude: -77, 322157 GPS Unit: Trimble Geo 7x GPS LMK #: --Camera: Photo #s: iPhone 11 Land Use in Drainage Area (Check all that apply): ☐ Industrial ☐ Open Space × Ultra-Urban Residential ■ Institutional Suburban Residential Other: _ ☐ Commercial Known Industries: Notes (e.g.., origin of outfall, if known): Section 2: Outfall Description DIMENSIONS (IN.) LOCATION MATERIAL SHAPE **SUBMERGED** RCP ☐ CMP ☐ Circular Single In Water:
No
Partially Diameter/Dimensions: 16in □ PVC Eliptical ☐ HDPE ☐ Double Fully Closed Pipe ☐ Steel ☐ Box ☐ Triple With Sediment: ☐ Other: _____ Other: ___ Other: ___ □ No □ Partially ☐ Concrete ☐ Trapezoid Depth: _____ ☐ Earthen Open drainage ☐ Parabolic Top Width: ___ ☐ rip-rap Other: Bottom Width: ___ Other: In-Stream (applicable when collecting samples) Flow Present? ☐ Yes No. If No, Skip to Section 5 Flow Description ☐ Trickle ☐ Moderate ☐ Substantial (If present) Section 3: Quantitative Characterization FIELD DATA FOR FLOWING OUTFALLS **PARAMETER** RESULT UNIT **EQUIPMENT** Volume Liter Bottle ☐Flow #1 Time to fill Sec Flow depth În Tape measure Flow width Ft, In Tape measure ☐Flow #2 Measured length Ft, In Tape measure Time of travel S Stop watch Temperature ٥F Thermometer pН pH Units Test strip/Probe

mg/L

Test strip

Ammonia

and the first of the second of	(1) 110 (1) 110, prop 10 occasion 0/	
INDICATOR CHECK if Present	DESCR	RELATIVE SEVERITY INDEX (1-3)
odor G	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ 1 – Faint ☐ 2 – Easily detected ☐ 3 – Noticeable from a distance
Color	lear ☐ Brown ☐ Gray ☐ Yellow ireen ☐ Orange ☐ Red ☐ Other:	□ I – Faint colors in □ 2 – Clearly visible in □ 3 – Clearly visible in sample bottle sample bottle outfall flow
Turbidity	See severity	☐ 1 – Slight cloudiness ☐ 2 – Cloudy ☐ 3 – Opaque
Floatables -Docs Not Include Trash!!	Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:	☐ 1 – Few/slight; origin not obvious □ 2 – Some; indications of origin (e.g., possible suds or oil sheen, suds, or floating sheen) □ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes \sum No	wing and Non-Flowing Outfalls flow present? Yes \sum \text{No} (If No, Skip to Section 6)	tion 6)
INDICATOR CHECK if Present	nt DESCRIPTION	COMMENTS
Outfall Damage	☐ Spalling, Cracking or Chipping ☐ Pecling Paint ☐ Corrosion	14
Deposits/Stains	Oily A Flow Line Paint Wother:	fant-flow, sectionent classes to
Abnormal Vegetation	Excessive Inhibited	Grasses growth at outfoul
Poor pool quality	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	n
Pipe benthic growth	☐ Brown ☐ Orange ☐ Green ☐ Other:	
Section 6: Overall Outfall Characterization	в	
☐ Unlikely Potential (presence o	Potential (presence of two or more indicators) Suspect (one or more indicators)	ndicators with a severity of 3) Dovious
Section 7: Data Collection		
1. Sample for the lab?	☐ Yes No	
2. If yes, collected from:	☐ Flow ☐ Bool	
3. Intermittent flow trap set?	Yes No If Yes, type:] OBM

Outfall PVP3 (7/30/2020)



OUTFALL RECURNAISSANCE INVENTORY/SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data

Ammonia

TOTAL AT DESCRIP	2.00110 2.010						
Subwatershed:	oms Cheek	= - Mid	idle mainst	Outfall ID:	PVP3 (Ma	010	30)
	130/2020	7		Time (Military			
	SAR			Form complete	d by: SAR		
Temperature (°F):	87°F	Rainf	all (in.): Last 24 hou				
Latitude: 39,	708287	Longitude:	77.32377	7 2 GPS Unit; Tn	mble Geo 7x	GPS LMK#	
Camera: 1Pho			-	Photo #s:			
Land Use in Draina	ge Area (Check all that	apply):	•••	•			
☐ Industrial				Open Space			
Ultra-Urban Res	sidential			Institutiona	1		
Suburban Resid	ential			Other;			
☐ Commercial				Known Industr	ies:		
Notes (e.g, origin	of outfall, if known):						
P					·		
ection 2: Outfa	ll Description	(CONT.					
LOCATION	MATE	RIAL		SHAPE	DIMENSIO	NS (IN.)	SUBMERGED
	☐ RCP	□ CMP	Circular	Single	Diameter/Dimens		In Water: No
	□ PVC	HDPE	☐ Eliptical	☐ Double	20,5	10	Partially
Closed Pipe	☐ Steel		Вох	☐ Triple			☐ Fully
	Other:		Other	Other:			With Sediment: No
	_						Partially
	Concrete						
	☐ Earthen		☐ Trapezoid		Depth:		
Open drainage			Parabolic		Top Width:	20	
	☐ rip-rap		Other:		Bottom Width:		
	Other:		L				
In-Stream	(applicable wh						
low Present?	☐ Yes	☑No	If No.	, Skip to Section 5			
Flow Description If present)	☐ Trickle	☐ Moderat	e 🔲 Substantial				
ection 3: Quan	titative Character	rization					
Cetion of Quan			FIELD DATA FO	R FLOWING OUTF	ILLS		
PA	RAMETER	641	RESULT		UNIT	E	QUIPMENT
DEL41	Volume				Liter		Bottle
□Flow#1	Time to fill				Sec		
	Flow depth				ln	Т	ape measure
	Flow width		, , , , , , , , , , , , , , , , , , , ,		Ft, In	Т	ape measure
□Flow #2	Measured length		·•		Ft, In	Т	ape measure
	Time of travel				S		Stop watch
Te	emperature				°F	1	Thermometer
	На				pH Units	Te	est strip/Probe

mg/L

Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes	dicators for Flovors Present in the f	wing Outfalls Only / low? Yes No (If No, Skip to Section 5)			
INDICATOR	CHECK if Present	DESCR	REL	RELATIVE SEVERITY INDEX (1-3)	1-3)
Odor		☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 = Faint	2 - Easily detected	☐ 3 – Noticeable from a distance
Color		☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	l - Faint colors in sample bottle	2 = Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbidity		See severily	☐ 1 – Slight cloudiness	2 - Cloudy	3 – Opaque
Floatables -Does Not Include Trash!!		☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	2 – Some: indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 5: Physical Indicators for Both Flowing and Non Are physical indicators that are not related to flow present?	dicators for Bot	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes \(\sum \text{No}\) No \((\leftit{lf No}\), Skip to Section 6)	ction 6)		
INDICATOR	CHECK if Present	resent DESCRIPTION		COMMENTS	S
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	nt		
Deposits/Stains	Ð	Oily S Flow Line Paint S Other:	Sediment	tracks	عدالمان والم
Abnormal Vegetation		☐ Excessive ☐ Inhibited		•	
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	'n		
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	tfall Characteria	zation			
Unlikely	Potential (prese	Potential (presence of two or more indicators) Suspect (one or more indicators)	ndicators with a severity of 3)	(3) Dovious	
Section 7: Data Collection	tion				
1. Sample for the lab?	?	□ Yes □VNo			
2. If yes, collected from:	om:	☐ Flow ☐ Pool			
3. Intermittent flow trap set?	ap set?	□ Yes □ No If Yes, type: □	OBM Caulk dam		

Outfall PVP4 (7/30/2020)



OUTFALL RECUINAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data Subwatershed: Toms Creek - Middle Mainstern Outfall ID: (map 10 31) 7/30/2020 Today's date: Time (Military): Investigators: SAR Form completed by: SAR Rainfall (in.): Last 24 hours: Temperature (°F): 870F Last 48 hours: // Latitude: 39 Longitude: -77, 322839 GPS Unit: Trimble Greo 72 GPS LMK #: -708423 Camera: Phone 11 Photo #s: Land Use in Drainage Area (Check all that apply): ■ Industrial Open Space ☐ Ultra-Urban Residential ☐ Institutional Suburban Residential Other: ☐ Commercial Known Industries: _ Notes (e.g.., origin of outfall, if known): **Section 2: Outfall Description** MATERIAL LOCATION SHAPE **DIMENSIONS (IN.) SUBMERGED** CMP. Circular Single RCP Diameter/Dimensions: In Water:
No
Partially ☐ PVC HDPE ☐ Eliptical Double Fully Closed Pipe ☐ Steel □ Box ☐ Triple With Sediment: Other: Other: ___ Other: __ □ No □ Partially Fully ☐ Concrete ☐ Trapezoid Depth: ____ ■ Earthen Open drainage Parabolic Top Width: ☐ rip-rap Other: _____ Bottom Width: ___ Other: ☐ In-Stream (applicable when collecting samples) Flow Present? N/No ☐ Yes If No, Skip to Section 5 Flow Description ☐ Trickle ☐ Moderate ☐ Substantial (If present) Section 3: Quantitative Characterization FIELD DATA FOR FLOWING OUTFALLS **PARAMETER** RESULT UNIT **EQUIPMENT** Volume Liter Bottle ☐Flow #1 Time to fill Sec Flow depth In Tape measure Flow width Ft, In Tape measure ☐Flow #2 Measured length Tape measure Ft, In Time of travel S Stop watch Temperature °F Thermometer

Test strip/Probe

Test strip

pH Units

mg/L

рΗ

Ammonia

INDICATOR	CHECK if Present	INDICATOR CHECK if Present DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor		☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ I — Faint ☐ 2 — Easily detected ☐ 3 — Noticeable from a
Color		☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	□ I – Faint colors in □ 2 – Clearly visible in □ 3 – Clearly visible in sample bottle outfall flow
Turbidity		See severity	☐ 1 – Slight cloudiness ☐ 2 – Cloudy ☐ 3 – Opaque
Floatables -Does Not Include Trash!!		☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ I — Few/slight; origin not obvious 2 - Some: indications 3 - Some: origin clear (e.g., obvious oil sheen, suds, or floating sheen) 3 - Some: origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	dicators for Botl	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes No (If No, Skip to Section 6)	ection 6)
INDICATOR Outfall Damage	CHECK if Present		
Denosite/Stains			COMMENTS
Abnormal Vegetation		□ Spalling, Cracking or Chipping □ Corrosion □ Paint ☑	faint +1000/100
Poor pool quality		□ Spalling, Cracking or Chipping □ Corrosion □ Oily □ Flow Line □ Paint □ Excessive □ Inhibited	faint flow line
Pipe benthic growth		Spalling, Cracking or Chipping Corrosion Oily No Line Paint Excessive Inhibited Odors Colors Ploatables Suds Excessive Algae	faint from line, sed ment 2 in of sediment build wo
		Spalling, Cracking or Chipping	COMMENTS faint from line, sed ment 2 in of sediment and we
ection 6: Overall Ou	tfall Characteria	Spalling, Cracking or Chipping	faint from line, sediment 2 in of sediment build wo
ection 6: Overall Ou	tfall Characteria	Spalling, Cracking or Chipping	faint from line sed ment 2:0 of sed ment build wo with a severity of 3) Obvious
ection 6: Overall Ou Unlikely Unlikely Collection 7: Data Collection	tfall Characteria	Spalling, Cracking or Chipp Corrosion Oily Flow Line P Excessive Inhibited Suds Colors Suds Colors Excessive Al Brown Orange	faint from line 1 sed ment 2 in of sed ment build wo 1 with a severity of 3) Obvious
ection 6: Overall Out ☐ Unlikely Ection 7: Data Collec 1. Sample for the lab?	### Characteria Description Description	Spalling, Cracking or Chipp Corrosion Oily Flow Line P Excessive Inhibited Odors Colors Suds Excessive Al Brown Orange two or more indicators) Yes	faint from line sed ment 2: of sed ment build wo
tion 6: Overall of the lifty of	tfall Characteria Potential (prese	Spalling, Cracking or Chipp Corrosion Oily Aflow Line P Excessive Inhibited Suds Colors Suds Colors Excessive Al Brown Orange two or more indicators) Yes Pool	faint from line sed ment build wo

Outfall PVP5 (7/30/2020)



OUTFALL RECURNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data Subwatershed: Toms Creek - Middle Mainstern Outfall ID: PVPS (Map 10 32) 30/2020 Time (Military): Today's date: 11:36 Investigators: Form completed by: SAR Temperature (°F): Rainfall (in.): Last 24 hours: Last 48 hours: Latitude: Longitude: -77, 32299 GPS Unit: Trimble Geo 7x GPS LMK #: 39.708174 Photo #s: Camera: Land Use in Drainage Area (Check all that apply): ■ Industrial Open Space * Ultra-Urban Residential Institutional Suburban Residential Other: _ Commercial Known Industries: Notes (e.g.,, origin of outfall, if known): **Section 2: Outfall Description** LOCATION **MATERIAL** SHAPE **DIMENSIONS (IN.) SUBMERGED** CMP Single ☐ RCP Circular . In Water: No Partially Diameter/Dimensions: 24 in □ PVC ☐ HDPE ☐ Eliptical Double Fully Closed Pipe ☐ Steel ☐ Box ☐ Triple With Sediment: Other: ____ Other: ___ Other: No ☐ Partially w/concrete sides Fully ☐ Concrete □ Trapezoid Depth: ☐ Earthen ☐ Parabolic Open drainage Top Width: ___ 🔲 гір-гар Other: ___ Bottom Width: ____ Other: (applicable when collecting samples) ☐ In-Stream Flow Present? ☐ Yes If No, Skip to Section 5 Flow Description Trickle ☐ Moderate ☐ Substantial (If present) Section 3: Quantitative Characterization FIELD DATA FOR FLOWING OUTFALLS **PARAMETER EQUIPMENT** RESULT UNIT Volume Liter Bottle ☐Flow #1 Time to fill Sec Flow depth ln Tape measure Flow width Ft, In Tape measure ☐Flow #2 Measured length Ft, In Tape measure Time of travel S Stop watch

Temperature

pΗ

Ammonia

°F

pH Units

mg/L

Thermometer

Test strip/Probe

Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes	dicators for Flovors Present in the fl	wing Outfalls Only ow? □ Yes □ No (If No, Skip to Section 5)			
INDICATOR	CHECK if Present	DESCR	REI	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		☐ Sewage ☐ Rancid/sour ☐ Petrolcum/gas ☐ Sulfide ☐ Other:	□ 1 – Faint	2 - Easily detected	3 – Noticeable from a distance
Color		□ Clear □ Brown □ Gray □ Yellow □ Green □ Orange □ Red □ Other:	☐ 1 = Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbidity		See sevently	☐ 1 — Slight cloudiness	2 – Cloudy	☐ 3 — Opaque
Floatables -Does Not Include Trash!!		☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 5: Physical Indicators for Both Flowing and No. Are physical indicators that are not related to flow present?	dicators for Bot that are not relate	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes \(\simeg\) No \((\begin{array}{c} \limits \mathbb{No}, \ Skip to \ Section \(\delta\))	ction 6)		
INDICATOR	CHECK if Present	resent DESCRIPTION		COMMENTS	S
Outfall Damage	Q Q	Spalling, Cracking or Chipping ☐ Pecling Paint ☐ Corrosion	Orac	King bottom	
Deposits/Stains	N N	Oily Now Line Paint Other:	Storns	5 Some sediment	the deposit
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	en l		
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	tfall Characteriz	zation			
Unlikely	Potential (prese	Potential (presence of two or more indicators) Suspect (one or more indicators)	indicators with a severity of 3)	of 3) 🔲 Obvious	
Section 7: Data Collection	tion				
1. Sample for the lab?	9	□ Yes ☑No			
If yes, collected from:	om:	☐ Flow ☐ Pool			
3. Intermittent flow trap set?	ap set?	☐ Yes ☐ No If Yes, type: ☐	☐ OBM ☐ Caulk dam		

Outfall SHR5 (7/30/2020)



OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

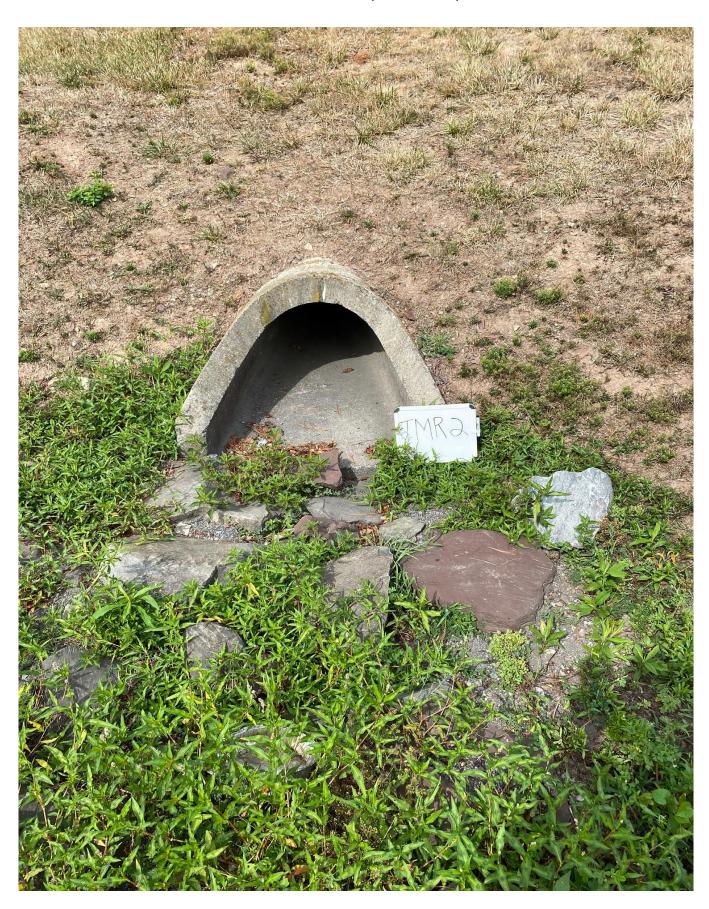
Section 1: Background Data

Section 1: Dackgro	unu Data				
	's Creek middl	le Mainstern	Outfall ID:	SHR5 (Map 11	31)
Today's date: 7/3	0/2020			13128	,
Investigators: SAC	2		Form completed by	SAR	
Temperature (°F):)°F	Rainfall (in.): Last 24 hours:	Last 48 hours:	0	
Latitude: 39. 705	468 Longit	tude: -77. 319027	GPS Unit: Trime	ble Greo 7x GPS LMK	#:
Camera: iPhone			Photo #s:		
Land Use in Drainage A	Area (Check all that apply)				
☐ Industrial			Open Space		
Ultra-Urban Residen	ntial		Institutional		
Suburban Residentia	ıl		Other:		
☑ Commercial			Known Industries:		
Notes (e.g., origin of or	utfall, if known):			16.1 (1).1 (-
_0-0-					
Section 2: Outfall I)oscrintion				
LOCATION	MATERIAL	SH	IAPE	DIMENSIONS (IN.)	SUBMERGED
	□ RCP □ Ct	MP Circular	Single	Diameter/Dimensions:	In Water:
	Mevc □ HI	DPE	Double	5in	In Water: No Partially
Closed Pipe	☐ Steel	Вох	☐ Triple		Fully
Closed Tipe	1		1		With Sediment:
	Other;	Other:	Other:		Partially
	I D C			+	☐ Fully
	Concrete	☐ Trapezoid		Depth:	
Open drainage	Earthen	☐ Parabolic		Top Width:	
-	☐ rip-rap	Other:		Bottom Width:	
	Other:	Concr.		Control Wilder	
☐ In-Stream	(applicable when coll				A COLUMN TO SERVICE
Flow Present?	☐ Yes	☑No <i>If No, Sk</i>	ip to Section 5		
Flow Description (If present)	☐ Trickle ☐ M	oderate Substantial			
Section 3: Quantita	tive Characterizatio	on			
		FIELD DATA FOR F	LOWING OUTFALLS		
PARAM	METER	RESULT		UNIT	QUIPMENT
□ Elon: #1	Volume			Liter	Bottle

		FIELD DATA FOR FLOWIN	IG OUTFALLS	
Р	ARAMETER	RESULT	UNIT	EQUIPMENT
□ m #1	Volume		Liter	Bottle
☐Flow#1	Time to fill		Sec	
	Flow depth		I n	Tape measure
□r:#2	Flow width	(Ft, In	Tape measure
☐Flow #2	Measured length	<u></u>	Ft, In	Tape measure
	Time of travel		S	Stop watch
	Temperature		°F	Thermometer
	pН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Color Co	Are Any Physical Indicators For Flowing Are Any Physical Indicators Present in the flow? INDICATOR CHECK if Present Odor	Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes INDICATOR CHECK if Present Sewage Ra	Yes No (If No. Skip to Section 5) DESCRIPTION Be Rancid/sour Petroleum/gas	REL I – Faint	RELATIVE SEVERITY INDEX (1-3)
	Odor		Rancid/sour	ō	- Faint
	Color		☐ Brown ☐ Gray ☐ Orange ☐ Red		1 – Faint colors in sample bottle
	Turbidity			\rightarrow	☐ 1 – Slight cloudiness
	Floatables -Does Not Include Trash!!		; etc.)		l – Few/slight: origin not obvious
Spalling, Cracking or Chipp Spalling, Cracking or Chipp Corrosion Oily Flow Line P. Excessive Inhibited Excessive Al Suds Colors Suds Colors Excessive Al Orange Two or more indicators)	Section 5: Physical Indicat Are physical indicators that	ators for Both Flowi	ng and Non-Flowing Outfalls w present?Yes No (If No, Skip to Section 6)		ction 6)
Oily Flow Line Page Pa	INDICATOR Outfall Damage	CHECK if Present	Spalling, Cracking or Chi Corrosion	E 1	nt.
	Deposits/Stains		Priow Line Paint		faint
Odors Colors Suds Excessive Al	Abnormal Vegetation				
two or more indicators) Yes Flow Pool	Poor pool quality		s Colors Excessive Alg	2	
two or more indicators)	Pipe benthic growth		Orange		
ential (presence of two or more indicators)	Section 6: Overall Outfall	ll Characterization			
☐ Yes ☐ No ☐ Flow ☐ Pool		otential (presence of to	wo or more indicators) Suspect (one or more indicators	G	e indicators with a severity of 3)
Sample for the lab? If yes, collected from: Flow Pool	Section 7: Data Collection	n	/		
Intermittant flow tean safe			Yes		
		ser?	No If Yes Type:		ORM Caulk dam

Outfall TMR2 (7/30/2020)



OUTFALL RECUNNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data Subwatershed: Toms Creek- middle Mainstem Outfall ID: TMR2 (Map 10 43) Today's date: 7/30/2020 Time (Military): 10:12 Investigators: SAR Form completed by: SAR Temperature (°F): AU°F Rainfall (in.): Last 24 hours: Last 48 hours: O 709425 Longitude: -77.332888 Latitude: 39 GPS Unit: Trimble Geo 7x GPS LMK #: __ Camera: Photo #s: Land Use in Drainage Area (Check all that apply): ☐ Industrial Open Space Ultra-Urban Residential ■ Institutional Other: Forest Suburban Residential □ Commercial Known Industries: Notes (e.g., origin of outfall, if known): **Section 2: Outfall Description DIMENSIONS (IN.)** LOCATION SHAPE MATERIAL SUBMERGED **☑** RCP ☐ CMP Circular **₩** Single In Water:
No
Partially Diameter/Dimensions: lbin ☐ PVC ☐ HDPE ☐ Eliptical Double Fully Closed Pipe ☐ Steel □ Box ☐ Triple With Sediment: No Partially Other: Other: ___ Other: ___ Fully ☐ Concrete ☐ Trapezoid Depth: _____ ☐ Earthen Open drainage ☐ Parabolic Top Width: _____ П гір-гар Other: ____ Bottom Width: ___ Other: ☐ In-Stream (applicable when collecting samples) Flow Present? M No ☐ Yes If No, Skip to Section 5 Flow Description ☐ Trickle ☐ Moderate ☐ Substantial (If present) Section 3: Quantitative Characterization FIELD DATA FOR FLOWING OUTFALLS **PARAMETER** UNIT RESULT **EQUIPMENT** Volume Liter Bottle ☐Flow #1 Time to fill Sec Flow depth In Tape measure Flow width Ft, In Tape measure ☐Flow #2 Measured length Ft, In Tape measure Time of travel S Stop watch

о_Г

pH Units

mg/L

Thermometer

Test strip/Probe

Test strip

Temperature

pН

Ammonia

Are Any Physical Indicators Present in the flow? Yes	ors Present in the fl	ow? Yes No (If No, Skip to Section 5)	
INDICATOR	CHECK if Present		RELATIVE SEVERITY INDEX (1-3)
Odor		☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint ☐ 2 – Easily detected ☐ 3 – Noticeable from a distance
Color		☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 — Faint colors in ☐ 2 — Clearly visible in ☐ 3 — Clearly visible in sample bottle outfall flow
Turbidity	۵	Sec severity	☐ 1 – Slight cloudiness ☐ 2 – Cloudy ☐ 3 – Opaque
Floatables -Does Not Include Trash!!		☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	□ 2 = Some; indications □ 1 = Few/slight; origin of origin (c.g., obvious oil obvious of origin (c.g., obvious oil sheen, suds, or floating sanitary materials)
Section 5: Physical Indicators for Both Flowing and No. Are physical indicators that are not related to flow present?	dicators for Botls that are not relate	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes No (If No. Skip to Section 6)	ction 6)
INDICATOR	CHECK if Present	resent DESCRIPTION	COMMENTS
Outfall Damage		☐ Spalling. Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	nt
Deposits/Stains	凤	Oily Liftow Line Paint Other:	Very foint flow line Istoin
Abnormal Vegetation		☐ Excessive ☐ Inhibited	1,000
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	בית
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:	
Section 6: Overall Outfall Characterization	ıtfall Characteriz	ation	
Unlikely	Potential (prese	Potential (presence of two or more indicators) Suspect (one or more indicators)	indicators with a severity of 3) Dovious
Section 7: Data Collection	ction		
1. Sample for the lab?	?	□ Yes ☑ Yoo	
If yes, collected from:	om:	☐ Flow ☐ Pool	

Outfall TMR3 (7/30/2020)



OUTFALL RECUMNAISSANCE INVENTORY/SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data Subwatershed: Toma Creek Middle Mainskin Outfall ID: TMR3-MADIN 44) Today's date: Time (Military): 7/30/2020 10:22 Am Form completed by: SAQ Investigators: SAR Temperature (°F): 840 F Rainfall (in.): Last 24 hours: Last 48 hours: 6 GPS Unit: Trimble Geo 7x Latitude: 39.708588 Longitude: -77. 3331 GPS LMK #: --Camera: Phone 11 Photo #s: Land Use in Drainage Area (Check all that apply): ■ Industrial Open Space Ultra-Urban Residential ■ Institutional Suburban Residential Other: _ ☐ Commercial Known Industries: Notes (e.g., origin of outfall, if known): Section 2: Outfall Description LOCATION SHAPE MATERIAL **DIMENSIONS (IN.)** SUBMERGED N RCP CMP M Circular Single In Water:
No
Partially Diameter/Dimensions: 16in ☐ PVC ☐ HDPE □ Eliptical □ Double Fully Closed Pipe ☐ Steel ☐ Box □ Triple With Sediment: Other: _____ Other: ___ Other: ☐ No ☑ Partially ☐ Fully □ Concrete ☐ Trapezoid Depth: ☐ Earthen Open drainage Parabolic Top Width: ____ П гір-гар Other: ____ Bottom Width: ___ Other: __ ☐ In-Stream (applicable when collecting samples) No. Flow Present? ☐ Yes If No, Skip to Section 5 Flow Description ☐ Trickle ☐ Moderate ☐ Substantial (If present) Section 3: Quantitative Characterization FIELD DATA FOR FLOWING OUTFALLS **PARAMETER** RESULT UNIT **EQUIPMENT** Volume Bottle Liter Flow #1 Time to fill Sec Flow depth In Tape measure Flow width Ft, In Tape measure ☐Flow #2 Measured length Ft, In Tape measure S Time of travel Stop watch Temperature °F Thermometer

pH Units

mg/L

Test strip/Probe

Test strip

pН

Ammonia

Are Any Physical Indicators Present in the flow?	ors Present in the Ho	WELL TES WIND (I) NO. SKIP TO SECTION 2)			
INDICATOR	CHECK if Present	DESCRIPTION	RELAT	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor	0	Sewage□ Rancid/sour□ Petroleum/gas□ Sulfide□ Other:	☐ I – Faint	2 - Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 = Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity		See severity	☐ 1 — Slight cloudiness	2 – Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ I – Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some: origin clear (c.g., obvious oil sheen, suds, or floating sanitary materials)
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	dicators for Both	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes \(\sum \) No \(\left(\frac{1}{2} No \) Skip to Section 6 \)	ction 6)		
Outfall Damage		Spalling, Cracking or Chipping Pecling Paint Corrosion	2		
Deposits/Stains	EZ	oily Sow Line Paint Other:	Stains	& Sectioners b	m/0 ~6
Abnormal Vegetation	区	Excessive lnhibited	lots of ve	of vegetation that will	11,065thall thoute
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	20.		
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	tfall Characteriz	ation	700		
□ Unlikely	Potential (presen	Potential (presence of two or more indicators) Suspect (one or more indicators)	ndicators with a severity of 3)	3) Dovious	
Section 7: Data Collection	tion				
 Sample for the lab? 	?	☐ Yes ☑ No			
If yes, collected from:)m:	☐ Flow ☐ Pool			
			DOM Down Jam		

Outfall TMR4 (7/30/2020)



OUTFALL RECGINAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data Subwatershed: Ton's Creek-middle Mainsten Outfall ID: TMR4 (Map 10 45) 10:03 Today's date: Time (Military): 7/30/2020 Investigators: Form completed by: SAR 9,40F Rainfall (in.): Last 24 hours: Temperature (°F): Last 48 hours: D Longitude: -77, 33278 GPS Unit: Trimble Geo 7x Latitude: 39.709607 GPS LMK #: __ Camera: Phone 11 Photo #s: Land Use in Drainage Area (Check all that apply): Open Space ■ Industrial Ultra-Urban Residential ■ Institutional Suburban Residential Other: _ Commercial Known Industries: Notes (e.g.., origin of outfall, if known): **Section 2: Outfall Description** LOCATION MATERIAL SHAPE **DIMENSIONS (IN.) SUBMERGED** In Water:
No
Partially **⊠** RCP ☑ Single ☐ CMP Circular . Diameter/Dimensions: 48 in ☐ PVC HDPE □ Eliptical Double Fully Closed Pipe ☐ Steel ☐ Box ☐ Triple With Sediment: Other: _____ Other: Other: **₽**No Partially Fully □ Concrete Trapezoid Depth: ____ ☐ Earthen Top Width: ___ Open drainage ☐ Parabolic □ гір-гар Other: ____ Bottom Width: Other: _ ☐ In-Stream (applicable when collecting samples) Flow Present? No. ☐ Yes If No, Skip to Section 5 Flow Description ☐ Trickle ☐ Moderate ☐ Substantial (If present) Section 3: Quantitative Characterization FIELD DATA FOR FLOWING OUTFALLS **PARAMETER** RESULT UNIT **EQUIPMENT** Volume Liter Bottle ☐Flow #1 Time to fill Sec Flow depth In Tape measure Flow width Ft, In Tape measure ☐Flow #2 Measured length Ft, In Tape measure Time of travel S Stop watch ٥F Temperature Thermometer ρН pH Units Test strip/Probe

mg/L

Test strip

Ammonia

Are Any Physical Indicators Present in the flow? Yes	tors Present in the flo	ow? 🗌 Yes 🖫 No (If No, Skip to Section 5)	
INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	0	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Paint ☐ 2 – Easily detected ☐ 3 – Noticeable from a distance
Color		☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	□ 1 – Faint colors in □ 2 – Clearly visible in □ 3 – Clearly visible in sample bottle outfall flow
Turbidity		Sec severity	☐ 1 – Slight cloudiness ☐ 2 – Cloudy ☐ 3 – Opaque
Floatables -Does Not Include Trash!!	0	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	□ 1 = Few/slight; origin not obvious □ 2 - Some; indications of origin (e.g., possible suds or oil obvious oil sheen, suds, or floating sheen) □ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	ndicators for Both s that are not relate	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes \(\sum \text{No}\) No \((\leftit{lf No}\), Skip to Section 6)	tion 6)
INDICATOR	CHECK if Present	DESCRIPTION Cracking or Chinning	COMMENTS
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Pecling Paint ☐ Corrosion	
Deposits/Stains	Q	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	Faint Clowline istanding water inside
Abnormal Vegetation		☐ Excessive ☐ Inhibited	
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	n
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:	
Section 6: Overall Outfall Characterization	utfall Characteriz	ation	
Unlikely [Potential (preser	Potential (presence of two or more indicators) Suspect (one or more indicators)	ndicators with a severity of 3) Dovious
Section 7: Data Collection	ction		
1. Sample for the lab?	5?	☐ Yes ☐ No	
If yes, collected from:	om:	☐ Flow ☐ Pool	
3 1	ran set?	TYPES TYPES TYPES	OBM Caulk dam

Outfall TMR5 (7/30/2020)



OUTFALL RECGINAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET **Section 1: Background Data** Subwatershed: Tom's Creek Middle Mainstern Outfall ID: TMRS (Map 10 46) Today's date: 7/30/2020 Time (Military): 9:52 Investigators: SAR Form completed by: SAQ Rainfall (in.): Last 24 hours: Last 48 hours: Temperature (°F): GPS Unit: Trimble Geo 7x Latitude: 39,710625 Longitude: -77. 33255 GPS LMK #: Photo #s: Land Use in Drainage Area (Check all that apply): ■ Industrial Open Space Ultra-Urban Residential ■ Institutional Suburban Residential Other: □ Commercial Known Industries: Notes (e.g.., origin of outfall, if known): Section 2: Outfall Description LOCATION MATERIAL SHAPE **SUBMERGED DIMENSIONS (IN.)** In Water No Single ☑ RCP Circular ☐ CMP Diameter/Dimensions: ☐ PVC HDPE ☐ Eliptical □ Double ☐ Fully ✓ Closed Pipe ☐ Steel □ Box Triple With Sediment: Other: _____ Other: ___ Other: ___ □ No Partially Fully ☐ Concrete ☐ Trapezoid Depth: ____ ■ Earthen ☐ Parabolic Open drainage Top Width: ___ 🗌 гір-гар Other: ___ Bottom Width: _ Other: ☐ In-Stream (applicable when collecting samples)
 Mo
 Flow Present? ☐ Yes If No, Skip to Section 5 Flow Description ☐ Trickle ☐ Moderate ■ Substantial (If present) **Section 3: Quantitative Characterization FIELD DATA FOR FLOWING OUTFALLS PARAMETER RESULT** UNIT **EQUIPMENT** Volume Liter Bottle ☐Flow #1 Time to fill Sec Flow depth In Tape measure Flow width Ft, In Tape measure ☐Flow #2 Ft, In Measured length Tape measure Time of travel S Stop watch ٥F

Thermometer

Test strip/Probe

Test strip

pH Units

mg/L

Temperature

ρН

Ammonia

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes	dicators for Flovors Present in the f	wing Outfalls Only ✓ In Yes ✓ No (If No. Skip to Section 5)			
INDICATOR	CHECK if Present	DESCR	REL	RELATIVE SEVERITY INDEX (1-3)	1-3)
Odor		□ Sewage □ Rancid/sour □ Petroleum/gas □ Sulfide □ Other:	☐ 1 – Faint	2 - Easily detected	3 – Noticeable from a distance
Color		□ Clear □ Brown □ Gray □ Yellow □ Green □ Orange □ Red □ □ Other:	☐ 1 – Faint colors in sample bottle	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbidity		See seventy	☐ 1 – Slight cloudiness	2 – Cloudy	☐ 3 = Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:	☐ 1 = Few/slight; origin not obvious	2 = Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 5: Physical Indicators for Both Flowing and Non- Are physical indicators that are not related to flow present?	dicators for Bot that are not relat	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes \(\sum \text{No}\) No \((\beta f No, Skip to Section 6)\)	ection 6)	-1	
INDICATOR	CHECK if Present	resent DESCRIPTION	T T	COMMENTS	V
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	unt		
Deposits/Stains	L E	Oily GHow Line Paint Other:	faint s	flowlines	:
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	een		
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	tfall Characteri	zation			
Unlikely	Potential (preso	Potential (presence of two or more indicators) Suspect (one or more indicators)	indicators with a severity of 3)	(3) 🔲 Obvious	
Section 7: Data Collection	ction				
1. Sample for the lab?	į	□ Yes ☑ No	2.7		
2. If yes, collected from:	om:	☐ Flow ☐ Pool			
3. Intermittent flow trap set?	rap set?	☐ Yes ☐ No If Yes, type: ☐	OBM Caulk dam	:	

Outfall WCC1 (7/30/2020)



OUTFALL RECUNNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data Subwatershed: Tom's Creek-middle Mainsten Outfall ID: WCCI (Map 1D 47) Time (Military): Today's date: 7/30/2020 10:52 Investigators: SAR Form completed by: SAR Temperature (°F): Q 40 F Rainfall (in.): Last 24 hours: Last 48 hours: // Latitude: 39, 70767 Longitude: -77. 327378 GPS Unit: Trimble 610 7x GPS LMK #: --Camera: | Phone 11 Photo #s: Land Use in Drainage Area (Check all that apply): ■ Industrial Open Space Ultra-Urban Residential ■ Institutional Other Forest Suburban Residential ☐ Commercial Known Industries: Notes (e.g.,, origin of outfall, if known): Section 2: Outfall Description LOCATION MATERIAL SHAPE SUBMERGED **DIMENSIONS (IN.)** In Water:
No
Partially Circular □ RCP ☐ CMP Single Diameter/Dimensions: M HDPE ☐ PVC 4in ☐ Eliptical ☐ Double ☐ Fully Corrugated Closed Pipe ☐ Steel ☐ Box ☐ Triple With Sediment: Other: Other: Other: ☐ No ✓ Partially ☐ Fully ☐ Concrete □ Trapezoid Depth: ____ ☐ Earthen Top Width: ____ Open drainage □ Parabolic ☐ rip-rap Other: Bottom Width: Other: ☐ In-Stream (applicable when collecting samples) No. Flow Present? ☐ Yes If No, Skip to Section 5 Flow Description ☐ Trickle ☐ Moderate ☐ Substantial (If present) **Section 3: Quantitative Characterization** FIELD DATA FOR FLOWING OUTFALLS **PARAMETER** UNIT **EQUIPMENT** RESULT Volume Bottle Liter ☐Flow #1 Time to fill Sec Flow depth ln Tape measure Flow width Ft, In Tape measure ☐Flow #2 Measured length Ft, In Tape measure S Time of travel Stop watch °F Temperature Thermometer

> pΗ Ammonia

pH Units

mg/L

Test strip/Probe

Test strip

Are Any Physical Indicators Present in the flow? Yes	s Present in the How !	Tes Yoo (if No. Skip to Section 3)			
INDICATOR	CHECK if Present	DESCRIPTION	RE	RELATIVE SEVERITY INDEX (1-3)	1-3)
Odor		☐ Sewage☐ Rancid/sour☐ Petroleun/gas☐ Other:	☐ I = Faint	2 - Easily detected	3 – Noticcable from a distance
Color		□ Clear □ Brown □ Gray □ Yellow □ Green □ Orange □ Red □ Other:	☐ 1 = Faint colors in sample bottle	☐ 2 — Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity		See severity	☐ 1 — Slight cloudiness	☐ 2—Cloudy	3 – Opaque
Floatables -Does Not Include Trash!!		☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	2 – Some: indications of origin (e.g., possible suds or oil sheen)	3 - Some: origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	icators for Both Fi	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes No (If No. Skip to Section 6)	ion 6)	3 0	le'
INDICATOR	CHECK if Present	ent DESCRIPTION		COMMENTS	S
Outfall Damage	回	Spalling, Cracking or Chipping	Chipping	plastic at	end of pipe,
Deposits/Stains	区	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	soil du	soil ducosity, faint flow	w lines
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Hoatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:			
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	fall Characterizati	on	18 DE CONTROL 18		
☐ Unlikely ☑	Potential (presence	Potential (presence of two or more indicators) Suspect (one or more indicators)	dicators with a severity of 3)	of 3) 🔲 Obvious	
Section 7: Data Collection	ion				
1. Sample for the lab?		□Yes ☑No			
2. If yes, collected from	n:	☐ Flow ☐ Pool			
2 Intermittent flow transact?]		

pipe and hanging over stream bank wall, no flow, but langth of pipe could get cauginton something if large flow of stream is present