ATTACHMENT #2



Town of Emmitsburg
2018/2019 Outfall Screening Report

ection 1: Backgı			0.04m. / M	~ 4	
	oms Crik		Outfall ID: (M		
Today's date: 9/	25/19		Time (Military): §	4	
Investigators: <u>Λς ρ</u>			Form completed by:		
Temperature (°F):) b	Rainfall (in.): Last 24 hou			
	8855 Longitu	ide: -77,317819	GPS Unit: Trim		
	ing ST Edge		Photo #s: CM	(1	
Land Use in Drainag	ge Årea (Check all that apply):		- -		
🔀 Industrial			Open Space		
Ultra-Urban Resi	idential		☐ Institutional		
☐ Suburban Reside	ntial		Other:		***************************************
☐ Commercial			Known Industries:		
Notes (e.g., origin o	of outfall, if known):				-
Section 2: Outfal	CONTRACTOR OF THE PROPERTY OF			A Water Andrewson Commencer State Commencer St	To week a second of the control of
LOCATION	MATERIAL		SHAPE :	DIMENSIONS (IN.)	SUBMERGED
	□ RCP □ CI	MP Circular	☐ Single	Diameter/Dimensions:	In Water:
	□ PVC □ H	DPE Eliptical	☐ Double		☐ Partially ☐ Fully
Closed Pipe	☐ Steel	☐ Box	☐ Triple		With Sediment:
-	Other:	Other:	Other:	· ·	☐ No
					Partially
	☑ Concrete			~ A15	
		☐ Trapezoid		Depth: 29"	
Open drainage	Earthen	☐ Parabolic		Top Width: 48th	
	rip-rap	Other:		Bottom Width:	
	Other:				
☐ In-Stream	(applicable when col				
Flow Present?	☐ Yes	⊠(No If No	o, Skip to Section 5		
Flow Description (If present)	☐ Trickle ☐ M	foderate Substantial			
Section 3: Ouan	titative Characterizati	on			
			OR FLOWING OUTFALL	S	
PAI	RAMETER	RESULT		UNIT E	QUIPMENT
3 Sec. 139 20 - 60 13941 2 - 6 15 15 15 15 15 15 15 15 15 15 15 15 15	Volume			Lîter	Bottle
□Flow#1	Time to fill			Sec	
	Flow depth			In 7	Гаре measure
	Flow width	***************************************		Ft, In	Fape næasure
□Flow #2	Measured length) 11		Ft, In	Tape measure
	Time of travel			S	Stop watch
Te	mperature			°F	Thermometer
	pН			pH Units To	est strip/Probe
	Ammonia			mg/L	Test strip

Are Any Physical Indicators Present in the flow? Yes	s Present in the flow	? 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:	□ I Faint	2 - Easily detected	3 – Noticeable from a
Color		☐ Clear ☐ Brown ☐ Gray ☐ Yellow☐ Green ☐ Orange ☐ Red ☐ ☐ Olher:	☐ 1 — Faint colors in sample bottle	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbidity	0	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?	cators for Both F	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	CHECK if Present	DESCR	を を を を を を を を を を を を を を	COMMENTS	
Outfall Damage		☐ Spalling. Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	aint		
Deposits/Stains		Oily Flow Line Paint Other:			
Abnormal Vegetation	Ø	Excessive			
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	сеп		
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other			
Section 6: Overall Outfall Characterization	ıll Characterizati	0 n			
Unlikely Po	otential (presence	Potential (presence of two or more indicators) Suspect (one or more indicators with	indicators with a severity of 3)	f 3) 🔲 Obvious	
Section 7: Data Collection	'n				
1. Sample for the lab?		Yes No			
2. If yes, collected from:		☐ Flow ☐ Pool			
3. Intermittent flow trap set?	set?	☐ Yes ☐ No If Yes, type: ☐	OBM Caulk dam		
Section 8: Any Non-Illici	it Discharge Conc	Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?			

Visitation avission, No class puth to steam

Outfall CMR1 (9/25/19)



Town of Emmitsburg 2019 IDDE Outfall Inspections ALWL Project No. 2178.002.001

ection 1: Backg	round Data		<u> </u>	~ ~	
Subwatershed: To	oms Griek		Outfall ID: (M		
Today's date:	126/19		Time (Military): 0		
Investigators: DS			Form completed by		
Temperature (°F):	580	Rainfall (in.): Last 24 ho		1007	
Latitude: 34, 6	98864 Longit	ude: -77,318385	GPS Unit: Trian		C #2
	ge Area (Check all that apply)		Photo #s: (1)	(7	
Land Use in Draina	ge Area (Check all that apply)	•			
[Industrial			Open Space		
Ultra-Urban Res	sidential		☐ Institutional		
Suburban Resid	ential		Other:		
☐ Commercial			Known Industries		
Notes (e.g., origin	of outfall, if known):		7		

Section 2: Outfa		and the second s		o de la seco escada escada de la composição	
LOCATION	MATERIAL		SHAPE	DIMENSIONS (IN.)	30,37 ·
	□ RCP □ C	MP 🔯 Circular	Single	Diameter/Dimensions:	In Water: No
	□ PVC □ H	DPE Eliptical	☐ Double	16	Partially Fully
Closed Pipe	⊠ Steel	☐ Box	☐ Triple		With Sediment:
	☐ Other:	Other:	Other:		☐ No
					☐ Partially☐ Fully
	☐ Concrete				
	☐ Earthen	☐ Trapezoid		Depth:	
Open drainage	-	☐ Parabolic		Top Width:	
	☐ rip-rap	Other:		Bottom Width:	
	Other:				
☐ In-Stream	(applicable when co		No. Skip to Section 5		
Flow Present?	Yes	⊠No If N	vo, Skip to Section 5		
Flow Description (If present)	☐ Trickle ☐ N	Moderate			
2.0	· · · · · · · · · · · · · · · · · · ·				
Section 3: Quai	ntitative Characterizat		FOR FLOWING OUTFAL	LS .	
n.	ARAMETER	RESULT		UNIT	EQUIPMENT
	Volume			Liter	Bottle
□Flow#1	Time to fill			Sec	
	Flow depth			I n	Tape measure
	Flow width	1 11		Ft, In	Tape measure
□Flow #2	Measured length	, , , , ,		Ft, In	Tape measure
	Time of travel			S	Stop watch
l	l'emperature			°F	Thermometer
	рН			pH Units	Test strip/Probe
	Ammonia			mg/L	Test strip

Are Any Physical Indicators Present in the flow? Yes	resent in the flow?	Yes No (If No. Skip to Section 5)			
INDICATOR	CHECK if Present	DESCR		RELATIVE SEVERITY INDEX (1-3)	1-3)
Odor	☐ Scwage	,e □ Rancid/sour □ Petroleuπ/gas e □ Other:	l Faint	2 - Easily detected	3 - Noticeable from a distance
Color	Clcar	☐ Brown ☐ Gray ☐ Yellow ☐ 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 -Docs Not Include Trash!!	☐ Sewag	Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:	☐ 1 ~ Few/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 santiary materials)
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	tors for Both Flowing are not related to flow	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? XYes \(\sum \text{No}\) No (If No. Skip to Section 6)	ction 6)		
INDICATOR	CHECK if Present	DESCRIPTION		COMMENTS	
Outfall Damage	図	☐ Spalling. Cracking or Chipping ☐ Peeling Paint Corrosion	nt		
Deposits/Stains	Ø	Oily Pow Line Paint Other:			
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	מכ		
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	Characterization				
☐ Unlikely ☐ Pote	Potential (presence of two or more indicators)	or more indicators) Suspect (one or more indicators with	ndicators with a severity of 3)	of 3) 🔲 Obvious	
Section 7: Data Collection					
1. Sample for the lab?		☐ Yes ☐ No			
2. If yes, collected from:		☐ Flow ☐ Pool			
2 Intermittant flamman and					

Outfall CMR2 (9/25/19)



Town of Emmitsburg 2019 IDDE Outfall Inspections ALWL Project No. 2178.002.001

Section 1: Backgro	und Data					
Subwatershed: Tom	s Crisk		Outfall ID:	MR3		
Today's date: 4/4			Time (Military):	9:24AM	}	
Investigators: DSP	/SAR		Form completed by	y: DSP/SAR		
	2° m² 1 1	ainfall (in.): Last 24 hours			÷	
Latitude: 39, 7000	0// Longitude	=-77,32 <i>0</i> 076	GPS Unit: Trim	bli	GPS LMK #	
Camera: Samsun	ST Edge		Photo #s: CM			
	Area (Check all that apply):					
⊠ Industrial			Open Space			
☐ Ultra∗Urban Resider	ntial		☐ Institutional			
☐ Suburban Residentia	al		Other:			
☐ Commercial			Known Industries:	***************************************	·····	
Notes (e.g origin of o	utfall, if known):				2	
C 2 O	• ••					
Section 2: Outfall I	Description MATERIAL	Sin I i i i i i i i i i i i i i i i i i i	HAPE	DIMENSIO	NS (IN.)	SUBMERGED
Commission of the Commission o	RCP CMP		☑ Single	Diameter/Dimens		In Water:
	□ PVC □ HDP		Double	16"	70.05	No Partially
Closed Pipe	Steel □ Hotel				***************************************	Fully
Closed Pipe	1*	Box	Triple			With Sediment:
	Other:	Other:	Other:			☐ No ☑ Partially ☐ Fully
	Concrete	☐ Trapeziid		Depth:		
	☐ Earthen					
Open dramage	□ rip∘rap	Parabolic		Top Width:		
	Other:	Other:		Bottom Width:	•••••	
☐ In-Stream	(applicable when collect	ing samples)				
Flow Present?	☐ Yes 💹	No If No, Si	kip to Section 5			
Flow Description (If present)	☐ Trickle ☐ Mode	erate				
Section 3: Quantita	tive Characterization					
		FIELD DATA FOR	FLOWING OUTFALLS	S		
PARAM	1ETER	RESULT		UNIT	EQ	UIPMENT
□Flow#I	Volume			Liter		Bottle
	Time to fill			Sec		
	Flow depth			In	Ta	pe measure
☐Flow #2	Flow width	, v•		Ft, In	Та	pe measure
	Measured length))) 2000000000		Ft, In	Та	ipe measure
	Time of travel			S	S	Stop watch
Tempe	rature			*F	Th	nermometer
pł			p	pH Units	Tes	t strip/Probe
Amm	onia			mg/L		Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes	dicators for Flow ors Present in the flo	v ing Outfalls Only pw? ☐ Yes ☐ No (If No, Skip to Section 5)			
INDICATOR	CHECK if Present	DESCR		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 boule	3 - Clearly visible in outfall flow
Turbidity		See severity	☐ 1 Slight cloudiness	2 - Cloudy	☐ 3 — Opaque
Floatables -Docs 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 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 Both	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes X No (If No. Skip to Section 6)	ion 6)		
INDICATOR	CHECK if Present	esent DESCRIPTION		COMMENTS	S
Outfall Damage	्ष	Spalling. Cracking or Chipping 💢 Peeling Paint			
Deposits/Stains	叉	Other:			
Abnormal Vegetation		☐ Excessive ☐ Inhibited	-		
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other;			¥
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	tfall Characteriz	ation			
☐ Unlikely 🔯	Potential (presen	Potential (presence of two or more indicators) Suspect (one or more indicators with a severity of 3)	dicators with a severity	of 3) 🔲 Obvious	
Section 7: Data Collection	tion				
1. Sample for the lab?		□ Yes □ No			
2. If yes, collected from:	m:	☐ Flow ☐ Pool			
3. Intermittent flow trap set?	ap set?	☐ Yes ☐ No If Yes, type: ☐ C	☐ OBM ☐ Caulk dam		

Outfall CMR3 (9/25/19)



Town of Emmitsburg 2019 IDDE Outfall Inspections ALWL Project No. 2178.002.001

ection 1: Backgro						
Subwatershed: Ton	rs Crick				MR4	
Today's date: 9/2	5/19			Time (Military):	9:30 AM	
Investigators: DSP					y: DSP/SAR	
Temperature (°F): 6	9°F	1	ll (in.): Last 24 hours			7 Y 2 CYZ II
Latitude: 39, 700	0067 Long	itude: —	77, 320154	GPS Unit: Trap		S LMK #:
Camera: Samsu	ing S7 Edge			Photo #s: C	184	
Land Use in Drainage	Area (Check all that apply	y):				
🔀 Industrial				Open Space		
Ultra-Urban Resid	lential			☐ Institutional		
Suburban Residen	itial			Other:	***************************************	
☐ Commercial				Known Industries	·	
Notes (e.g., origin of	outfall, if known):			:		
	·					
Section 2: Outfall	more some film of the standard standard or see the same	teratur desi		HAPE	DIMENSIONS	(IN.) SUBMERGED
LOCATION	MATERIAL		☑ Circular	⊠ Single	Diameter/Dimensions	**************************************
		CMP	1	'	30"	No ☐ Partially
	PVC 🗆	HDPE	☐ Eliptical	☐ Double		Fully
Closed Pipe			Вох	Triple		With Sediment:
•-	Other:		☐ Other:	Other:		⊠ No □ Partially
						☐ Fully
	☐ Concrete		☐ Trapezoid		Depth:	
	☐ Earthen				Top Width:	
Open drainage	□ пр-гар		☐ Parabolic		-	
	Other:		Other:		Bottom Width:	
☐ In-Stream	(applicable when c	ollecting	samples)			
Flow Present?	☐ Yes	Ø No	If No,	Skip to Section 5		
Flow Description (If present)	☐ Trickle ☐	Moderat	e Substantial			
S 4' 2 04	itative Characteriza	tion				
Section 3: Quant	Itative Characteriza	tion.	FIELD DATA FOR	R FLOWING OUTFA	LS	
DAR	AMETER	H T	RESULT		UNIT	EQUIPMENT
	Volume			100 (100 g) (#11 page 1720 a) Harris (#12 page 18 of 1841)	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
Tei	mperature				*F	Thermometer
10.	pH				pH Units	Test strip/Probe
	.mmonia		:		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 Outfalls $ow? \square Yes$	Only	(If No, Skip to Section 5)	o Section 5)				
INDICATOR	CHECK if Present		DES	DESCRIPTION			REL	RELATIVE SEVERITY INDEX (1-3)	1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	Petroleum/gas		□ I – Faint		2 - Easily detected	☐ 3 Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown [Gray C	☐ Yellow ☐Other:	☐ I — Faint colors in sample bottle	ors in	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbidity			Se	See severity		☐ 1 – Slight cloudiness	oudiness	2 - Cloudy	☐ 3 Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper, etc.) Petroleum (oil sheen)		Suds Other:		☐ 1 ~ Few/slight; origin not obvious	ut origin	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-Flowing Outfalls Are physical indicators that are not related to flow present? Yes No	dicators for Both that are not relate	. Flowing and	l Non-Flowing (sent? ∐Yes	S No	(If No. Skip to Section 6)	ection 6)			
INDICATOR	CHECK if Present	resent	24	DESC	DESCRIPTION			COMMENTS	
Outfall Damage			Spalling, Crack Corrosion	Spalling, Cracking or Chipping Corrosion	Pecling Paint	uint .	locks new	70X)	
Deposits/Stains	区		Oily A Flow Line	Line Paint	Other:		frier		
Abnormal Vegetation			☐ Excessive ☐	☐ Inhibited					
Poor pool quality			Odors O	Colors	Hoatables Oil Sheen	cen			
Pipe benthic growth			☐ Brown ☐	Orange	☐ Green ☐ Other;				
Section 6: Overall Outfall Characterization	Ifall Characteriza	ation							
☑ Unlikely □	Potential (presence of two or more indicators)	ce of two or n	nore indicators		Suspect (one or more indicators with		a severity of 3)	3)	
Section 7: Data Collection	tion								
1. Sample for the lab?		☐ Yes		□No					
If yes, collected from:	m:	☐ Flow] wol] Pool					
3. Intermittent flow trap set?	ap set?	Yes	es [No	If Yes, type;]овм ∏с	Caulk dam		

Outfall CMR4 (9/25/19)

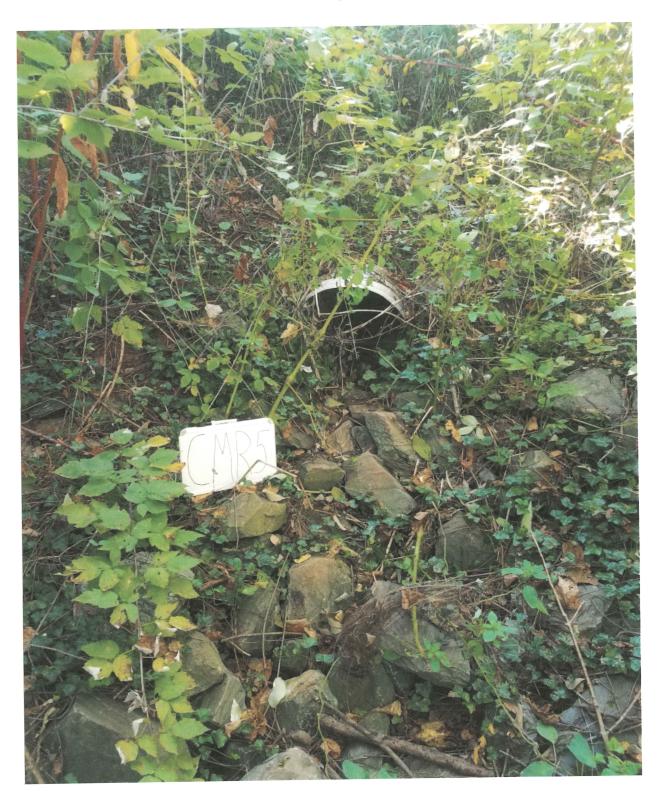


Town of Emmitsburg 2019 IDDE Outfall Inspections ALWL Project No. 2178.002.001

ection 1: Backg			Outfall ID:	M OE	
	Ms Crek			MRS	
Today's date: 9/			Time (Military):	9:45AM	
Investigators: D5		1076		by: DSP/SAR	
Temperature (°F):	67	ainfall (in.): Last 24 hours			
Latitude: 39,69		le: -77, 320375	GPS Unit: Trim	III 9 M - 7 M - M III. III 1 M - 1 M	
Camera: Samsu	ing 57 Edge		Photo #s: C	183	
Land Use in Draina	ge Area (Check all that apply):				
🔀 Industrial			Open Space		
Ultra-Urban Res	sidential		☐ Institutional		
☐ Suburban Resid	ential		Other:		
☐ Commercial		A.	Known Industrie	s:	
Notes (e.g, origin	of outfall, if known): all Description				**************************************
LOCATION	MATERIAL		SHAPE	DIMENSIONS (IN.)	SUBMERGED
	□ RCP □ CM	IP 🔀 Circular	Single	Diameter/Dimensions:	In Water:
	□ PVC □ HC	PE Eliptical	☐ Double	16"	XI No ☐ Partially ☐ Fully
Closed Pipe	Steel Steel	☐ Box	☐ Triple		
M Closed Tipe	☐ Other:	☐ Other:	Other:		With Sediment:
					☐ Partially ☐ Fully
	Concrete	☐ Trapezoid		Depth:	
	☐ Earthen	Parabolic		Top Width:	
Open drainage	☐ rip-гар				
	Other:	Other:		Bottom Width:	
☐ In-Stream	(applicable when coll	ecting samples)			
Flow Present?			Skip to Section 5		
Flow Description (If present)		oderate Substantial			
	ntitativa Chanastanizati	\n			
Section 3: Qua	ntitative Characterizatio	FIELD DATA FO	R FLOWING OUTFA	us	
D	ARAMETER	RESULT			EQUIPMENT
	Volume		an managa a managa a managa a sanah a gara a managa a sanah	Liter	Bottle
□Flow#1	Time to fill			Sec	
	Flow depth			In	Tape measure
	Flow width	, te		Ft, In	Tape measure
□Flow #2	Measured length	. "		Ft, In	Tape measure
	Time of travel			S	Stop watch
	Temperature			*F	Thermometer
	рН			pH Units	Test strip/Probe
1				mg/L	Test strip

Ale Ally Physical Indicators Present in the flow? Yes	ors Present in the flo	w? ☐ Yes ☐ No (If No. Skip to Section 5)			
INDICATOR	CHECK if Present	DESCRI	Re L	RELATIVE SEVERITY INDEX (1-3)	1-3)
Odor		□ Sewage □ Rancid/sour □ Petroleun/gas □ Sulfide □ Other:	l « Faint	2 - Easily detected	3 - Noticeable from a
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:		2 - Some: indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	dicators for Both I that are not related	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Are physical indicators that are not related to flow present?			
INDICATOR	CHECK if Present	DESCRI		COMMENTS	
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	nt		
Deposits/Stains		Oily Flow Line Paint Other:			
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen☐ Suds ☐ Excessive Algae ☐ Other:	תכ		
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	fall Characterizat	ion			
M Unlikely	Potential (presence	Potential (presence of two or more indicators) Suspect (one or more indicators with	ndicators with a severity of 3)) Dbvious	
Section 7: Data Collection	ion				
1. Sample for the lab?		☐ Yes ☐ No			
If yes, collected from:	n:	☐ Flow ☐ Pool			
3. Intermittent flow trap set?	p set?	☐Yes ☐ No If Yes, type: ☐	OBM Caulk dam		

Outfall CMR5 (9/25/19)



Section 1: Backgro	ound Data				
Subwatershed: Tom:	s Criek		Outfall ID: CA	1R6	
Today's date: 4/25	119		Time (Military):	10:01 AM 100	l
Investigators: 05P	ESAR		Form completed by:	DSP & SAR	
	<u> </u>	ainfall (in.): Last 24 hours:	Last 48 hours:	0	
Latitude: 34,70	1704 Longitud	le:-77,322474	GPS Unit: Trim		<u> </u>
Camera: ይ Sans	sung ST Edge		Photo #s: CMR	. 6	
Land Use in Drainage	Area (Check all that apply):				
☐ Industrial			Open Space		
☐ Ultra-Urban Reside	ential		🔀 Institutional		
☐ Suburban Residenti	ial		Other::		
☐ Commercial			Known Industries:		***************************************
Notes (e.g.,, origin of o	outfall, if known):				
Section 2: Outfall	34.850 Frank 4.24 7 8 C or 2.364 - 37 6 C or			To DIMENSIONS (TREE)	SUBMERGED
LOCATION	MATERIAL		HAPE	Dimensions (IN.)	In Water:
	RCP CM		Single	12"	⊠ No
_	N PAC _Y □ HDI	PE Eliptical	☐ Double	1.4	☐ Partially ☐ Fully
Closed Pipe	Steel x 2	☐ Box	Triple		With Sediment:
	Other:	Other:	Other;		☐ No ☑ Partially
					Fully
	Concrete				
	☐ Earthen	☐ Trapezoid		Depth:	
Open drainage	rip-rap	Parabolic Parabolic		Top Width:	
	Other:	Other:		Bottom Width:	
☐ In-Stream	(applicable when collect	ting samples)			
Flow Present?			kip to Section 5	30 (August 1997)	
Flow Description					
(If present)	☐ Trickle ☐ Mod	derate Substantial			
Section 3: Quantit	ative Characterization	1			
		man and the second section of the second sec	FLOWING OUTFALLS		
PARA	METER	RESULT		UNIT E	QUIPMENT
1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Volume			Liter	Bottle
☐Flow #1	Time to fill			Sec	
	Flow depth			In .	Tape measure
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	Flow width _	77		Ft, In	Tape measure
□Flow #2	Measured length _)))		Ft, In	Tape measure
	Time of travel			S	Stop watch
Тетр	perature			°F	Thermometer
	рН		F	H Units T	est strip/Probe
A				mall	Test strin

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	RE	RELATIVE SEVERITY INDEX (1-3)	
) -]	☐ Sewage ☐ Rancid/sour ☐ Petroleun/gas			
Odor			l - Faint	2 - Easily detected	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 — Fcw/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 sanilary materials)
Section 5: Physical Indicators for Both Flowing and Non-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 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		
Deposits/Stains		Oily Flow Line Paint Other:			
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	ven .		
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	fall Characteriz	ation			
Unlikely	Potential (preser	Potential (presence of two or more indicators) Suspect (one or more indicators with	indicators with a severity of 3)	f 3) 🔲 Obvious	
Section 7: Data Collection	tion				
1. Sample for the lab?		☐ Yes ☐ No			
If yes, collected from	m:	☐ Flow ☐ Pool			
3. Intermittent flow trap set?	ip set?	Yes No If Yes, type:	☐ OBM ☐ Caulk dam		

Outfall CMR6 (9/25/19)

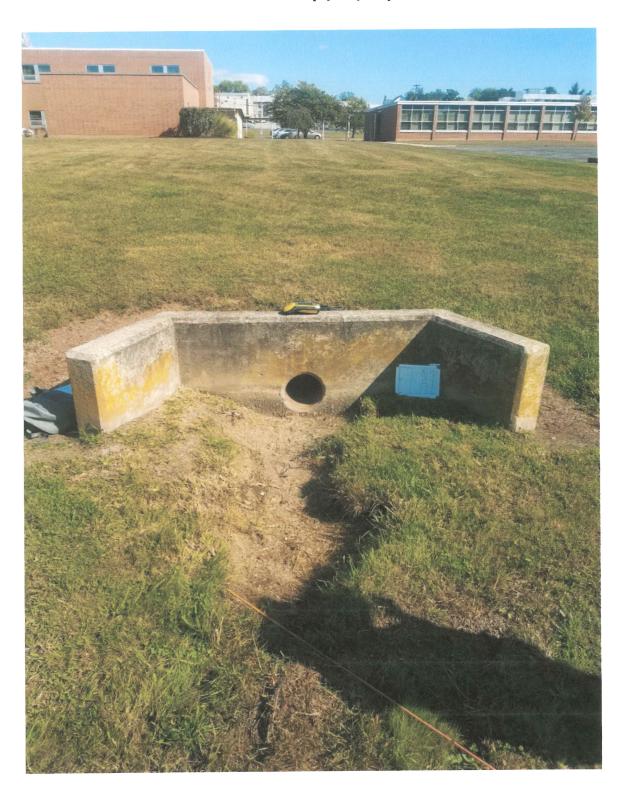


Town of Emmitsburg 2019 IDDE Outfall Inspections ALWL Project No. 2178.002.001

Section 1: Backgr	ound Data				
Subwatershed: Tot	ns Creek		Outfall ID: E l	-A1	
Today's date: 9/	2萬/19		Time (Military):		
Investigators: DSP	ISAR		Form completed	by: OSP/SAR	
Temperature (°F):	30° F	Rainfall (in.): Last 24 hours	: O Last 48 hou	rs: O	
Latitude: 39, 701	899 Longitu	ide: -77, 324067	GPS Unit: Tri	nble GPS LM	(K #:
	19 57 Edge		Photo #s: EL	A 1	
Land Use in Drainage	Area (Check all that apply):				
☐ Industrial			Open Space		
Ultra-Urban Resid	ential		🔀 Institutional		
Suburban Residen	tial		Other:		
☐ Commercial			Known Industrie	s:	
Notes (e.g., origin of	outfall, if known):				
()	•				
					N
Section 2: Outfall	Description				
LOCATION	MATERIAL	Si	HAPE	DIMENSIONS (IN.) SUBMERGED
	□ RCP □ CM	IP ☑ Circular	⊠ -Single	Diameter/Dimensions:	In Water:
	□ PVC □ HE	PE Eliptical	☐ Double	10"	_
Closed Pipe	№ Steel	Вох	☐ Triple		☐ Fully
•	☐ Other:	Other:	☐ Other:		With Sediment: No
					Partially Fully
	Concrete		1		
		☐ Trapezoid		Depth:	
Open drainage	☐ Earthen	☐ Parabolic		Top Width:	
	☐ rip-rap	Other:		Bottom Width:	
	Other:				
☐ In-Stream	(applicable when colle	cting samples)			
Flow Present?	☐ Yes 🗓	No If No. Si	kip to Section 5		
Flow Description (If present)	☐ Trickle ☐ Mo	oderate Substantial			
Section 3: Quantit	tative Characterizatio	n			
			FLOWING OUTFAL	LS	
PARA	METER	RESULT		UNIT	EQUIPMENT
	Volume			Liter	Bottle
□Flow #1	Time to fill			Sec	
	Flow depth			In	Tape measure
	Flow width	3		Ft, In	Tape measure
□Flow #2	Measured length) 1+ 		Ft, In	Tape measure
	Time of travel			S	Stop watch
Tem	perature			°F	Thermometer
	рН			pH Units	Test strip/Probe
Am	monia			mg/L	Test strip

Odor Check if Present Check if Present Color Col	CHECK if Present	Sewage Sulfide Clear	Rancid/sour Other: Brown Orange	DESCRIPTION □ Rancid/sour □ Petroleunvgas □ Other: □ Brown □ Gray [Petroleum/gas	☐ 1 – Faint		RELATIVE SEVERITY INDEX (1-3)	
Odor			Rancid/sour Other: Brown Orange	☐ Petroleum/g:	IS Yellow	☐ 1 - Faint			13)
Color			Other: Brown Orange	Gray	Yellow	☐ 1 ∞ Faint			1 a Noticeable from a
Color				Gray	☐ Yellow			2 - Easily delected	distance
Turbidity				Red	Other	1 - Faint colors in sample bottle		2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
· with the state of the state o			S	See severity		☐ 1 = Slight cloudiness	diness	2 - Cloudy	☐ 3 Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper, etc.)	et Paper, etc.) I sheen)	□ Suds □ Other:		☐ 1 Few/slight; origin not obvious	origin	☐ 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-Flowing Outfalls Are physical indicators that are not related to flow present? X Yes No	ators for Both	Flowing and d to flow prese	Non-Flowing (ont? X Yes	g Outfalls es □ No	(If No, Skip to Section 6)	tion 6)			
INDICATOR	CHECK if Present	esent		DE	DESCRIPTION			COMMENTS	
Outfall Damage	Ø			Spalling, Cracking or Chipping Corrosion	g Peeling Paint	M.	Crack i	in pipe	
Deposits/Stains			Oily Flow Line	w Linc 🔲 Paint	ıt 🔲 Other:				
Abnormal Vegetation			Excessive [☐ Inhibited					
Poor pool quality			Odors E	Colors	☐ Floatables ☐ Oil Sheen	n			
Pipe benthic growth			☐ Brown [Orange [Green Diher				
Section 6: Overall Outfall Characterization	l Characteriza	ation							
⊠ Unlikely ☐ Po	Potential (presence of two or more indicators)	ce of two or m	ore indicator		Suspect (one or more indicators wi	ndicators with a	th a severity of 3)	3) 🔲 Obvious	
Section 7: Data Collection	D								
1. Sample for the lab?		☐ Ycs	cs	□No					
2. If yes, collected from:		Flow	low						
3. Intermittent flow trap set?	ict?	□Yes		Pool					

Outfall ELA1 (9/25/19)



Section 1: Backgro	ound Data					
Subwatershed: Ton	ns Creek			Outfall ID: ELA		
Today's date: 9/20	5/ 19			Time (Military): 115	6	
Investigators: DS F) è SAR			Form completed by:	DSP & SAR	
	76° F		all (in.): Last 24 hours:	<u> </u>		
Latitude: 34, 701	793	Longitude: -	77,327036	GPS Unit: Trimble	, GPS LMK #	
Camera: Samsu	ns S7 Edge		VA 14 P	Photo #s: ELA2		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Land Use in Drainage	Area (Check all that	apply):				
☐ Industrial				Open Space		
Ultra-Urban Resid	lential			Mathematical Institutional		•
☐ Suburban Residen	tial			Other: Consec	vation/Recreation	(-R)
☐ Commercial				Known Industries:		
Notes (e.g, origin of	outfall, if known):	,				
S	n					
Section 2: Outfall LOCATION	Description	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
	☐ RCP	СМР	☑ Circular	⊠ Single	Diameter/Dimensions:	In Water;
	☑ PVC	HDPE	☐ Eliptical	☐ Double	611	⊠′No ☐ Partially
19 1 01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	, .					Fully
Closed Pipe	☐ Steel		□ Box	☐ Triple		With Sediment:
	Other:		Other:	Other:		
Annual Marian Control of the Control					-	☐ Fully
	☐ Concrete		☐ Trapezoid		Depth:	
Open drainage	☐ Earthen		☐ Parabolic		Top Width:	
Open dramage	☐ rîp-rap		_			
	Other:	····	Other:		Bottom Width:	
☐ In-Stream	(applicable wh	en collecting	samples)			
Flow Present?	☐ Yes	⊠N∘	If No, Sk	ip to Section 5		
Flow Description (If present)	☐ Trickle	Moderate	e 🔲 Substantial			ekkonnikistan masan sakakan anya min esi iki iki mamma
Section 3: Quanti	tative Character	rization				
			FIELD DATA FOR F	LOWING OUTFALLS		
PARA	AMETER		RESULT		INIT E	QUIPMENT
GE:#!	Volume				Liter	Bottle
□Flow#1	Time to fill				Sec	
	Flow depth				In T	ape measure
□Flow #2	Flow width		* ***		it, In T	ape measure
	Measured length	:00;000;000;000	, »	I		ape measure
	Time of travel					Stop watch
Tem	perature					hermometer
	pH			pl	I Units Te	st strip/Probe
An	nmonia			1	ng/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? \(\subseteq \text{ Yes} \)	licators for Flov or Present in the fl	v ing Outfalls Only ow? □ Yes ☒No (If No, Skip to Section 5)	tion 5)		
INDICATOR	CHECK if Present	DESCR		RELATIVE SEVERITY INDEX (1-3)	((1-3)
Odor		☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 — Faint	2 - Easily detected	3 - Noticcable from a distance
Color		□ Clear □ Brown □ Gray □ Yellow □ Green □ Orange □ Red □ Other:	ow I Faint colors in sample bottle	n ☐ 2 – Clearly visible in sample boule	3 - Clearly visible in outfall flow
Turbidity		See severity	☐ 1 — Slight cloudiness	ncss 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?	licators for Botl	n-Flowing Outfalls ☐ Yes ☐ No	(If No, Skip to Section 6)		
INDICATOR	CHECK if Present	resent DESCRIPTION	TON	COMMENTS	
Outfall Damage	×	Spalling, Cracking or Chipping Corrosion	Pecling Paint		•
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint	Other:		
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Suds ☐ Excessive Algae	bles ☐ Oil Sheen ☐ Other:		>
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green	Other:		
Section 6: Overall Outfall Characterization	fall Characteriz	ation			
∭ Unlikely □	Potential (preser	Potential (presence of two or more indicators)	Suspect (one or more indicators with a severity of 3)	verity of 3) Dovious	
Section 7: Data Collection	tion				
1. Sample for the lab?		☐ Yes ☐ No			
2. If yes, collected from	n:	☐ Flow ☐ Pool			
3. Intermittent flow trap set?	ıp set?	Yes No II	If Yes, type: OBM Caul	Caulk dam	

Outfall ELA2 (9/25/19)



Section 1: Back	ground Data						
Subwatershed:	oms Creek			Outfall ID:	ELA3		
Today's date: 4	125/19			Time (Military):	12:04)M #	3-04-
Investigators: D	SP & SAR			Form completed t	DSP & SA	R	
Temperature (°F):			fall (in.): Last 24 hours	: O Last 48 hour	s: <i>0</i>		
Latitude: 39,7	702015	Longitude: -	77,327459	GPS Unit: Trin	nble	GPS LMK #:	
Camera: Sams	ung 57 Edsi			Photo #s: ELA	3		
Land Use in Drain	age Area (Check all tha	it apply):					
☐ Industrial				Open Space			
Ultra-Urban Re	esidential			- Institutional			
Suburban Resid	dential			Other: Consi	ervation/Recrea	tion (C-1	3)
☐ Commercial				Known Industries		,	,
Notes (e.g, origin	of outfall, if known):	····		·		***************************************	
31							
						91C+111C-111-12-C-1111-111-111-111-111-111-1	
Section 2: Outfa	all Description						
LOCATION	MATE	RIAL	SI	HAPE	DIMENSIO	NS (IN.)	SUBMERGED
	₽	□ СМР	Circular	Single	Diameter/Dimensi	ions:	In Water:
	□ PVC	☐ HDPE	☐ Eliptical	☐ Double	16"		D No □ Partially
(A) Closed Pipe	☐ Steel		☐ Box	☐ Triple			☐ Fully
	Other: Cl	ay	Other:	Other:			With Sediment:
		,					Partially Fully
	Concrete	CONTRACTOR OF THE				100	Li Fully
	☐ Earthen		☐ Trapezoid		Depth:		
Open drainage			☐ Parabolic		Top Width:		
	∏ rîp-rap		☐ Other:		Bottom Width:		
	Other:						
☐ In-Stream	(applicable wh	J 1967-396 - G-11,131,203 -					
Flow Present?	☐ Yes	⊠ No	If No, Sk	tip to Section 5			
Flow Description (If present)	Trickle	☐ Moderate	Substantial				
Section 3: Quan	titative Characte	rization					
			FIELD DATA FOR F	LOWING OUTFALL	5		
PA	RAMETER		RESULT		UNIT	EQ	UIPMENT
	Volume				Liter		Bottle
□Flow#I -	Time to fill				Sec		
	Flow depth				In	Та	pe measure
□Flow #2	Flow width		1 11		Ft, In	Ta	pe measure
LIFIOW #2	Measured length				Ft, In	Ta	pe measure
	Time of travel				S	S	top watch
Te	mperature				*F	Th	ermometer
	pН				pH Units	Tes	t strip/Probe
A	Ammonia				mg/L	1	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 Onl low? □ Yes	y No (If No. Skip to Section 5)			
INDICATOR	CHECK if Present		DESCR		RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage DF	□ Rancid/sour 🗀 Petroleum/gas □ Other:	🗌 ı – Fainı	2 - Easily detected	3 Noticeable from a distance
Color		Clear D	□ Brown □ Gray □ Yellow □ 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	s 2 – Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper, etc.) Petroleum (oil sheen)	aper. etc.)	☐ 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-Flowing Outfalls Are physical indicators that are not related to flow present? No	dicators for Bot that are not relat	h Flowing and No	on-Flowing Outfalls ? ☐ Yes ☐ No (If No, Skip to Section 6)	ction 6)		
INDICATOR	CHECK if Present	resent	DESCRIPTION		COMMENTS	
Outfall Damage	#		Spalling, Cracking or Chipping		Crack in pipe	
Deposits/Stains		Oily	ly	1		
Abnormal Vegetation		□ Ех	☐ Excessive ☐ Inhibited			
Poor pool quality		Odors Suds	lors ☐ Colors ☐ Floatables ☐ Oil Sheen ds ☐ Excessive Algae ☐ Other:	.n		
Pipe benthic growth		☐ Brown	own Orange Green Other:			
Section 6: Overall Outfall Characterization	tfall Characteri	zation				
🛱 Unlikely 🔲	Potential (prese	Potential (presence of two or more indicators)	e indicators) Suspect (one or more indicators with a severity of 3)	indicators with a seve	rity of 3) Dovious	
Section 7: Data Collection	tion					
1. Sample for the lab?	į	☐ Yes	□No			
2. If yes, collected from.	ım;	Flow	v Pool			
3. Intermittent flow trap set?	ap set?	☐ Yes	□ No If Yes, type: □	OBM Caulk dam	lam	

Outfall ELA3 (9/25/19)



Section 1: Backs	ground Data					
Subwatershed:	oms Creek			Outfall ID:	LA 4	
Α	25/19			Time (Military):	12:07 pm 13	:07
Investigators:	IP & SAR			Form completed b	Y DSP & SAR	
Temperature (°F):	760F	Rainf	all (in.): Last 24 hou	rs: 💍 Last 48 hours	s: <i>O</i>	
Latitude: 39	702034	Longitude: ~	77.327594	GPS Unit: Trip	ble GPS LMK	#:
Camera: Sansu	us S7 Edge			Photo #s: ELA	4	
Land Use in Draina	ige Area (Check all th	at apply):				
☐ Industrial				☐ Open Space		
☐ Ultra-Urban Res	sidential			M Institutional		
Suburban Resid	ential			Other: Cons	ervation & Recreation	(C-R)
☐ Commercial					:	
	of outfall, if known):	-				
		ne en e				
Section 2: Outfa	ll Description					
LOCATION	MAT	ERIAL		SHAPE	DIMENSIONS (IN.)	SUBMERGED
	Page?	□ СМР	Circular	☆ Single	Diameter/Dimensions:	In Water:
	□ PVC	☐ HDPE	☐ Eliptical	☐ Double	16"	No ☐ Partially
Closed Pipe	☐ Steel		Вох	☐ Triple	, in the second	Fully
-	Other: L	la 😼	Other:	Other:		With Sediment:
						Partially Fully
	Concrete				**************************************	C runy
			☐ Trapezoid		Depth:	
Open drainage	☐ Earthen		Parabolic		Top Width:	
	☐ rip-rap		☐ Other:		Bottom Width:	
	Other:					
☐ In-Stream	(applicable w	hen collecting	samples)			
Flow Present?	☐ Yes	ÞÍ №	If No,	Skip to Section 5		
Flow Description (If present)	☐ Trickle	☐ Moderate	e 🔲 Substantial			
Section 3: Quan	titative Characte	erization				
			FIELD DATA FOR	R FLOWING OUTFALL	s	
PAI	RAMETER		RESULT		UNIT	QUIPMENT
m 41	Volume				Liter	Bottle
□Flow#1 -	Time to fill				Sec	
	Flow depth				In	Tape measure
□Flow #2	Flow width		, ***		Ft, In	Tape measure
Liew ##	Measured length	ı <u> </u>			Ft, In	Tape measure
	Time of travel				S	Stop watch
Te	mperature				°F	Thermometer
	рН		:		pH Units T	est strip/Probe
A	Ammonia				mg/L	Test strip

Are Any Physical Indicators Present in the flow?	lors Present in the fl	Are Any Physical Indicators Present in the flow? Yes No (If No. Skip to Section 5)		
INDICATOR	CHECK if Present	DESCR	RELATIVE SEV	RELATIVE SEVERITY INDEX (1-3)
Odor		☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ 1 Faint ☐ 2 Eas	2 = Easily detected
Colar		☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ I — Faint colors in ☐ 2 ~ Clearly sample bottle sample bottle	□ 2 - Clearly visible in □ 3 - Clearly visible in outfall flow
Turbidity		See severity	☐ 1 Slight cloudiness ☐ 2 Cloudy	oudy ☐ 3 – Opaque
Floatables -Does Not Include Trash!!		☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 = Few/slight; origin of origin possible not obvious sheen)	☐ 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?	ndicators for Botl s 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 KI 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		Oily		
Abnormal Vegetation		☐ Excessive ☐ Inhibited		
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	en en	
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:		
Section 6: Overall Outfall Characterization	ıtfall Characteriz	zation		
☐ Unlikely ☐	Potential (prese	Potential (presence of two or more indicators) X Suspect (one or more indicators wi	indicators with a severity of 3)	Obvious
Section 7: Data Collection	ction			
1. Sample for the lab?	<i>i</i> ?	☐ Yes ☐ No		
2. If yes, collected from:	om:	☐ Flow ☐ Pool		
3. Intermittent flow trap set?	rap set?	Yes No If Yes, type:	OBM Caulk dam	

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

Oxidesity Stonman Duilo W

Outfall ELA4 (9/25/19)



ection 1: Backgrou	ınd Data		<u> </u>		
Subwatershed: Tom	s Crek		Outfall ID: EN	***************************************	
Today's date: 4/2	5/19		Time (Military):	10:20	
Investigators: DSP/	SAR		Form completed by:		
Temperature (°F):	<i>!</i>	ll (in.): Last 24 hours			
Latitude: 39, 7027	88 Longitude: -	77.319312	GPS Unit: Trimb!	, management (#;
Camera: Samsung	57 Faye		Photo #s: EMS1		<i>y</i>
Land Use in Drainage A	Area (Check all that apply):				
☐ Industrial			Open Space		
Ultra-Urban Residen	ntial		☐ Institutional		
Suburban Residentia	al		Other: Conserv	ation/Recreation (c	-R)
Commercial			Known Industries:		
Notes (e.g, origin of o	utfall, if known):				
treate (a.g.m and					
}			2.00		
Section 2: Outfall l	Description	Faces Consumer of Consumers (C. 20)			SUBMERGED
LOCATION	MATERIAL	and a second	SHAPE	DIMENSIONS (IN.)	[1] \$1,000 (2) (24)\$8. W. W. W. W. S.
	□ RCP □ CMP	Circular Circular	Single Single	Diameter/Dimensions:	In Water:
	□ PVC 💢 HDPE	☐ Eliptical	☐ Double	<u> </u>	Partially Fully
Closed Pipe	☐ Steel	☐ Box	Triple		With Sediment:
٨	Other:	Other:	Other:		∑ No ☐ Partially
					Fully
	Concrete				
	Earthen	☐ Trapezoid		Depth:	
Open drainage		☐ Parabolic		Top Width:	
	∏ rip-rap	☐ Other:		Bottom Width:	
	Other:				
☐ In-Stream	(applicable when collecting		ar - F		
Flow Present?	☐ Yes 💹 No) IJ No,	Skip to Section 5		
Flow Description (If present)	☐ Trickle ☐ Modera	te Substantial			
Section 3: Quantit	ative Characterization				o de la companya del companya del companya de la co
		FIELD DATA FO	R FLOWING OUTFALLS		
PARA	METER	RESULT		UNIT	EQUIPMENT
	Volume			Liter	Bottle
☐Flow#1	Time to fill			Sec	
	Flow depth			<u>In</u>	Tape measure
	Flow width	, 11		Ft, In	Tape measure
□Flow #2	Measured length	, "		Ft. In	Tape measure
	Time of travel			S	Stop watch
Tem	perature			[™] F	Thermometer
	рН		E	H Units	Test strip/Probe
An	nmonia			mg/L	Test strip

Are Any Physical Indicators Present in the flow? Yes	s Present in the flow?	Yes No (If No. Skip to Section 5)			
INDICATOR	CHECK if Present	DESCRIPTION		RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor	Sewage	age ☐ Rancid/sour ☐ Petroleum/gas	☐ I — Faint	2 - Easily detected	☐ 3 – Noticcable from a
Color	Clear	ar ☐ Brown ☐ Gray ☐ Yellow en ☐ 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!!	□ Sew	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	3 - Some, origin clear (e.g., obvious oil sheen, suds, or floating
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	cators for Both Flowi	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. Skin to Section 6)	tion 6)		
INDICATOR	CHECK if Present	DESCR		COMMENTS	
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion		looks new	
Deposits/Stains		Oily			
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	5		
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	ll Characterization				
M Unlikely P		vo or more indicators) Suspect (one or more indicators with	ndicators with a severity of 3)	of 3) Dovious	
Section 7: Data Collection	Potential (presence of two or more indicators)				
	otential (presence of tv	☐ Yes ☐ No			
1. Sample for the lab?	otential (presence of tw				
	n presence of tw	*			

Outfall EMS1 (9/25/19)



Section 1: Back	ground Data					
Subwatershed:	OMS CITEK			Outfall ID:	Msa	
	/25/11			Time (Military):	10:28	
Investigators: D	SP/SAR			Form completed by		
Temperature (°F):	690	Raint	fall (in.): Last 24 hours:	Last 48 hours:	o '	
Latitude: 39, 7	273	Longitude: -	-77,318952	GPS Unit: 丁介A	GPS LMK #	-
Camera: Sams	uns 57 Edge			Photo #s: EMS		
	age Area (Check all tha			-		
☐ Industrial				☐ Open Space		
Ultra-Urban Re	esidential			☐ Institutional		
Suburban Resid	dential			Other: <u>Lonser</u>	vatter/Recreation ((-R)
☐ Commercial				Known Industries:		·
Notes (e.g, origin	of outfall, if known):	٠				
					, <u>, , , , , , , , , , , , , , , , , , </u>	
Section 2: Outf	Maria de Maria de Cara					
LOCATION	gain the contract of the contr	RIAL		IAPE	DIMENSIONS (IN.)	SUBMERGED
	☐ RCP	□ СМР	Circular	Single	Diameter/Dimensions:	In Water:
	☐ PVC	HDPE	☐ Eliptical	☐ Double	30"	Partially Fully
Closed Pipe	☐ Steel		Вох	Triple		
	Other:		Other:	Other:		With Sediment:
						Partially Fully
	☐ Concrete					
	☐ Earthen		☐ Trapezoid		Depth:	
Open drainage	☐ rip-rap		☐ Parabolic		Top Width:	
			Other:		Bottom Width:	
☐ In-Stream	Other:					
Flow Present?	(applicable wl	nen collecting		in to Sastian E		
Flow Description				ip to Section 5		
(If present)	Trickle	☐ Moderate	e Substantial			
Section 3: Quan	ititative Characte	rization				
		IZMITE	FIELD DATA FOR F	LOWING OUTFALLS		
PA	RAMETER		RESULT	ros an resulta I same resulta i	The state of the s	UIPMENT
30.44.00.00.00.00.00.00.00.00.00.00.00.00	Volume		724-81000 (12-20 r d 20 r r)ggggang 70 900 (12) (1	TANTON MORNING OF THE PROPERTY	Liter	Bottle
Flow#1	Time to fill				Sec	- Dout
	Flow depth					ipe measure
_	Flow width		72		_	ipe measure
□Flow #2	Measured length		1 15			ape measure
F	Time of travel					Stop watch
Te	emperature					nermometer
	pН			pł		st strip/Probe
A	Ammonia					Test strip

Are Any Physical Indicators Present in the flow?	ors Present in the f	low? 🔲 Yes	Are Any Physical Indicators Present in the flow? Yes No	(If No. Skip to Section 5)	n 5)			
INDICATOR	CHECK if Present		DES	DESCRIPTION			RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		□ Sewage	□ Rancid/sour	☐ Rancid/sour ☐ Petroleun/gas		☐ l Fainl	2 - Easily detected	☐ 3 ~ Noticeable from a
Color		☐ Clear		☐ Gray ☐ Yellow☐ Red ☐ Other		1 - Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbidity			S	See severily	<u></u>	☐ 1 — Slight cloudiness	2 - Cloudy	☐ 3 ∞ Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper	, etc.)	□ Suds □ Other:	not c	☐ 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 floatin, sanitary materials)
Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes No	dicators for Bot that are not relat	h Flowing an (ed to flow pre	d Non-Flowing ((If No, Skip to Section 6)	5)		
INDICATOR	CHECK if Present	resent		DESCRIPTION	NC		COMMENTS	
Outfall Damage			Spalling, Cra	Spalling, Cracking or Chipping Corrosion	Pecling Paint		i	
Deposits/Stains			Oily How Line	☐ Paint	Other			
Abnormal Vegelation] [☐ Excessive ☐	☐ Inhibited				
Poor pool quality			Odors C	Colors	s Oil Sheen Other:			
Pipe benthic growth		1	Brown	☐ Orange ☐ Green	Other:			
Section 6: Overall Outfall Characterization M Unlikely	itfall Characterization Potential (presence of two or more indicators)	zation nce of two or	more indicator	□ ,	Suspect (one or more indicators w	tors with a severity of 3)	y of 3) Obvious	
Section 7: Data Collection	ction							
 Sample for the lab? 	?] Yes	□ No				
If yes, collected from:	om:		Flow	Pool				
3. Intermittent flow trap set?	rap set?] Yes	□ No If Y	If Yes, type: OBM	Caulk dam		

Outfall EMS2 (9/25/19)



Section 1: Backgro	und Data				
Subwatershed: Tom	s Cark		Outfall ID: 5T	AL	
Today's date: 4/2			Time (Military):	10:55 AM	
Investigators: DS P	Y SAR		Form completed by:	DSP & SAR	
Temperature (°F):	2°	Rainfall (in.): Last 24 hours	s: O Last 48 hours:)	
Latitude: 34,7011	95 Longitu	ude: -77, 324131	GPS Unit: Trimbl		#:
Camera: Samsun	4 57 Edge		Photo #s: STA1		
Land Use in Drainage	Area (Check all that apply):				
☐ Industrial			☐ Open Space		
☐ Ultra-Urban Reside	ntial		Institutional		
☐ Suburban Residenti	al		Other:		
☐ Commercial			Known Industries:		
Notes (e.g, origin of o	utfall, if known):			:	
Section 2: Outfall l	AND A SECURE OF THE COURSE OF THE PROPERTY OF	23 (25 C C C C C C C C C C C C C C C C C C C	A1775-11881 POPEN AND BUILDING SOCIETY - 0.00		
LOCATION	MATERIAL		HAPE	DIMENSIONS (IN.)	SUBMERGED
	RCP STE	≰P ⊠ Circular	Single	Diameter/Dimensions:	In Water: No
	PVC H	OPE Eliptical	☐ Double	30"	☐ Partĭälly ☐ Fully
🔀 Closed Pipe	☐ Steel	Вох	☐ Triple		With Sediment:
	Other:	☐ Other:	☐ Other:		⊠ No
					Partially Fully
	☐ Concrete				
	☐ Earthen	☐ Trapezoid		Depth:	
Open drainage	☐ пір∞гар	☐ Parabolic		Top Width;	
	☐ Other:	Other:		Bottom Width;	
☐ In-Stream	(applicable when colle	ecting samples)			
Flow Present?			Skip to Section 5	Secretaria de la composición del la composición del composición de la composición del composición del composición de la composición del composició	
Flow Description			-		
(If present)	Trickle M	oderate Substantial			
Section 3: Quantita	ative Characterization	an			
		Archer et 1974 - Long California anno a company anno 1980 anno 1981 an	FLOWING OUTFALLS		
PARAI	METER	RESULT		INIT	EQUIPMENT
	Volume			Liter	Bottle
□Flow#1	Time to fill			Sec	
	Flow depth			ln	Tape measure
□□o #2	Flow width			ft, In	Tape measure
□Flow #2	Measured length	b. 11	I	Ft, In	Tape measure
	Time of travel			S	Stop watch
Temp	erature			*F	Thermometer
р	Н		pF	Units	Test strip/Probe
Amn	nonia		'	ng/L	Test strip

Arc Any Physical Indicators Present in the flow?	ors Present in the fi	Are Any Physical Indicators Present in the flow? Yes No (If No. Skip to Section 5)		
INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)	
Odor		☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas	☐ 1 Faint ☐ 2 Easily detected ☐ 3	3 - Noticeable from a distance
Color		☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 = Faint colors in ☐ 2 = Clearly visible in ☐ 3 sample bottle	3 – Clearly visible in outfall flow
Turbidity		See severity	☐ 1 = Slight cloudiness ☐ 2 = Cloudy ☐ 3	3 = Opaque
Floatables -Does Not Include Trash!!		☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	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?	ndicators for Bot s 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 No (If No. Skip to Section 6)	ction 6)	
INDICATOR	CHECK if Present	DESCR	COMMENTS	
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	int	
Deposits/Stains		Oily How Line Paint Other:		
Abnormal Vegetation		☐ Excessive ☐ Inhibited		
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	κn	
Pipe benthic growth	·	☐ Brown ☐ Orange ☐ Green ☐ Other:		
Section 6: Overall Outfall Characterization	tfall Characteriz	zation		
M Unlikely	Potential (prese	Potential (presence of two or more indicators) Suspect (one or more indicators wi	indicators with a severity of 3) Dovious	
Section 7: Data Collection	ction			
 Sample for the lab? 	?	□ Yes □ No		
If yes, collected from:	om:	☐ Flow ☐ Pool		
3. Intermittent flow trap set?	rap set?	Yes No If Yes, type: [OBM Caulk dam	

Outfall STA1 (9/25/19)



tion 1: Backgroubwatershed:	us Creek		Outfall ID:	51A2		
oday's date: $\frac{0}{4}$	4		Time (Military):	11:12 AM	1	
ivestigators: NSP			Form completed by:	DSPESAR		
emperature (°F):		ainfall (in.): Last 24 hour	rs: 0 Last 48 hours:	0		
	544 Longitude	=-77.326113	GPS Unit:	16	GPS LMK #:	
Camera: Samsuu			Photo #s: STA)			***************************************
and Use in Drainage	Area (Check all that apply):					
] Industrial			Open Space			
□ Ultra-Urban Resid	ential		⊠ Institutional			
			Other:			
Suburban Residen	nai		Known Industries:			
Commercial			100000			
Notes (e.g, origin of	outfall, if known):					
					,	
ection 2: Outfall	Description				₩ 1 - gU 200 # \$0 - ₩12 270	28-18-18-18-18-18-18-18-18-18-18-18-18-18
LOCATION	MATERIAL		SHAPE		ONS (IN.)	SUBMERGED
	RCP HOW	P Circular	Single	Diameter/Dime	nsions:	In Water:
	□ PVC □ HD	PE Eliptical	☐ Double	42"		Partially Fully
X Closed Pipe	☐ Steel	☐ Box	☐ Triple			With Sediment:
Z C10000	Other:	☐ Other:	☐ Other:			□No
						Partially Fully
	☐ Congrete					
		☐ Trapezoid		Depth:		
Open drainage	Earthen	☐ Parabolic		Top Width:		
•	☐ rīp-rap	☐ Other:		Bottom Width		
	Other:		er er i sages Paule (18 mer 18 18 18 mer 18			
☐ In-Stream	(applicable when colle					
Flow Present?	☐ Yes	XNo If No	o, Skip to Section 5			
Flow Description (If present)	☐ Trickle ☐ Mo	oderate Substantial				
Section 3: Quan	titative Characterizatio)N	OR FLOWING OUTFAL	ıc		
				UNIT		QUIPMENT
PA	RAMETER	RESULT		Liter		Bottle
□Flow#I	Volume			Sec		
	Time to fill			In		Tape measure
	Flow depth	, 19		Ft, In		Tape measure
□Flow #2	Flow width	, "		Ft, In		Tape measure
	Measured length Time of travel			S		Stop watch
		18°C		°F		Thermometer
<u> </u>		10		pH Units		Fest strip/Probe
To	emperature nH	A	l l	pri	1	
	рН	8		-		Test strip
	•	8 0.25 3/0		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 flo	ing Outfalls Only w? ☐ 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
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
Turbidity		See severity)
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:	2 = Some indications of origin (e.g., possible suds or oil
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 No (1f No Skin to Section 4)	, , , , , , , , , , , , , , , , , , ,
INDICATOR	CHECK if Present	DESCRI	COMMENTS
Outfall Damage		☐ Spalling. Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains		Oily How Line Paint Other.	
Abnormal Vegetation		☐ Excessive ☐ Inhibited	
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other.	
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:	
Section 6: Overall Outfall Characterization	fall Characteriza	ion	
M Unlikely	Potential (presenc	Potential (presence of two or more indicators) Suspect (one or more indicators with	dicators with a severity of 3) Dovious
Section 7: Data Collection	ion		
1. Sample for the lab?		□ Yes □ No	
2. If yes, collected from:	R.	☐ Flow ☐ Pool	
3. Intermittent flow trap set?	p set?	☐ Yes ☐ No If Yes, type: ☐ C	OBM Caulk dam

Outfall STA2 (9/25/19)



Section 1: Backgro	und Data				
Subwatershed: Tom	s Creek		Outfall ID: 7	MRI	
Today's date: 4/2	5/19		Time (Military):	1:49 PM 13:49	
Investigators:	SAR		Form completed by	OSP & SAR	
Temperature (°F): 79	Rair	nfall (in.): Last 24 hours	s: O Last 48 hours:	0	
Latitude: 39,70	7 956 Longitude:	-77,332441	GPS Unit: Trim b	GPS LMK #	* :
Camera: Samsung	57 Edge		Photo #s: TM	RI	
Land Use in Drainage A	Area (Check all that apply):				
☐ Industrial			Open Space		
Ultra-Urban Resider	ntial		Institutional		
Suburban Residentia	al		Other: Low	Density Residentia	1 (R-1)
☐ Commercial			Known Industries:	*	
Notes (e.g., origin of o	utfall, if known):	-	· · · · · · · · · · · · · · · · · · ·	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
(<i>g</i>	,				
Section 2: Outfall I	Description MATERIAL		HAPE	DIMENSIONS (IN.)	SUBMERGED
LOCATION	The Theory Project for his absorbed in the 1986.		Single	Diameter/Dimensions:	In Water:
		1"		66"	Æ No
	□ PVC □ HDPE	☐ Eliptical	Double		☐ Partially ☐ Fully
Closed Pipe	☐ Steel	Box	Triple		With Sediment:
	Other:	☐ Other:	Other:		≥ No □ Partially
					Fully
	☐ Concrete			Danth	
	☐ Earthen	☐ Trapezoid		Depth:	
Open drainage	☐ rip-rap	☐ Parabolic		Top Width:	
	Other:	Other:		Bottom Width:	
☐ In-Stream	(applicable when collecting	y samules)			
Flow Present?	☐ Yes		Skip to Section 5	4 To 1998 of the control of the Cont	
Flow Description (If present)	☐ Trickle ☐ Moder				
Section 3: Quantits	ative Characterization			•	
		FIELD DATA FOR	FLOWING OUTFALL		
PARA	METER	RESULT		UNIT E	QUIPMENT
<u> </u>	Volume			Liter	Bottle
□Flow#1	Time to fill			Sec	
	Flow depth			In	Tape measure
	Flow width	7 11		Ft, In	Tape measure
□Flow #2	Measured length	, <u>"</u>		Ft, In	Tape measure
	Time of travel			S	Stop watch
Tempe	erature			°F	Thermometer
P	Н			oH Units T	est strip/Probe
Amn	nonia			mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes	dicators for Flow ors Present in the fl	wing Outfalls Only ow? □ Yes □ No (If No. Skip to Section 5)			
INDICATOR	CHECK if Present	DESCR	200 mm	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)	(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 Both	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)	tion 6)		
INDICATOR	CHECK if Present	DESCRIPTION		COMMENTS	
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	nt		
Deposits/Stains		Oily Flow Line Paint Other:			
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Hoatables ☐ Oil Sheen☐ Suds ☐ Excessive Algae ☐ Other:	n		
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	tfall Characteriz	ation			
M Unlikely	Potential (preser	Potential (presence of two or more indicators) Suspect (one or more indicators)	Suspect (one or more indicators with a severity of 3)	of 3) Dovious	
Section 7: Data Collection	tion				
1. Sample for the lab?		☐ Yes ☐ No			
2. If yes, collected from:	m:	☐ Flow ☐ Pool			
3. Intermittent flow trap set?	ap set?	☐ Yes ☐ No If Yes, type: ☐	OBM Caulk dam		

Outfall TMR1 (9/25/19)



Section 1: Backgrou	ınd Data				
Subwatershed: Toms			Outfall ID:	VLDI	
Today's date: 4/25	/19		Time (Military):	12:48pm	13.48
Investigators: DSP	E SAR		Form completed by:	DSP & SAR	
Temperature (°F):		fall (in.): Last 24 hours:		. •	
Latitude: 39,702	796 Longitude: -	77.330388	GPS Unit: Trimb		#:
Camera: Samskin			Photo #s: WLD 3		
Land Use in Drainage A	rea (Check all that apply):				
☐ Industrial			☐ Open Space		
Ultra-Urban Residen	tial		▼ Institutional		
Suburban Residential	l		Other:		
☐ Commercial			Known Industries: _		
Notes (e.g, origin of ou	tfall, if known):				
				į.	
Section 2: Outfall D	escription				
LOCATION	MATERIAL	A	IAPE	DIMENSIONS (IN.)	SUBMERGED
	□ RCP □ CMP	Circular	Single	Diameter/Dimensions:	In Water:
	□ PVC □ HDPE	☐ Eliptical	☐ Double	14"	☐ Partially
Closed Pipe	⊠ Steel	☐ Box	☐ Triple		Fully
•	Other:	Other:	☐ Other:		With Sediment:
					\(\square\) \(\sq
THE CONTROL OF THE CO	Concrete				
	☐ Earthen	☐ Trapezoid		Depth:	
Open drainage		☐ Parabolic		Top Width:	
	☐ rip-rap	☐ Other:		Bottom Width:	
	Other:			+	
☐ In-Stream	(applicable when collecting	- A - C - C - C - C - C - C - C - C - C			
Flow Present?	☐ Yes No	o If No, Sk	kip to Section 5		
Flow Description (If present)	☐ Trickle ☐ Moderate	e Substantial			
Section 3: Quantitat	tive Characterization				
		FIELD DATA FOR	FLOWING OUTFALLS		
PARAM	ETER	RESULT		JNIT	EQUIPMENT
	Volume			Liter	Bottle
□Flow#1	Time to fill	1701		Sec	
	Flow depth			In	Tape measure
Пп. из	Flow width) 11 ———————————————————————————————————		Ft, In	Tape measure
□Flow #2	Measured length	7 31		Ft, In	Tape measure
	Time of travel			S	Stop watch
Temper	rature			°F	Thermometer
рН			pł	-l Units	Test strip/Probe
Ammo	nin			ma/I	Test strin

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes	dicators for Flow ors Present in the fl	wing Outfalls low? □ Yes	s Only ☐ No (If No. Skip to Section 5)			
INDICATOR	CHECK If Present		DESCR		RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage	☐ Rancid/sour ☐ Petroleum/gas	☐ 1 – Faint	2 - Easily detected	3 Nouceable from a
		Clear	☐ Brown ☐ Gray ☐ Yellow	1 - Faint colors in	7 - Clearly visible in	3 - Clearly visible in
Color		Green	: ☐ Red	sample bottle	sample bottle	outfall flow
Turbidity			See severity	☐ 1 - Slight cloudiness	☐ 2 Cloudy	☐ 3 — Opaque
Floatables «Does Not Include		Sewage (T	Sewage (Toilet Paper, etc.) 🔲 Suds	☐ 1 — Few/slight; origin	2 - Some: indications of origin (e.g.,	3 - Some; origin clear
Trash!!	[Petroleum (oil sheen)	(oil sheen)	not obvious	possible suds or oil sheen)	sheen, suds, or floating sanitary materials)
Section 5: Physical Indicators for Both Flowing and No.	dicators for Bot	h Flowing ar	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? The Section 6	Section (i)		
INDICATOR	CHECK if Present	resent	DESCRIPTION		COMMENTS	
Outfall Damage			Spalling, Cracking or Chipping Peeling Paint Corrosion	Paint		
Deposits/Stains			☐ Oily ☐ Flow Line ☐ Paint ☐ Other:			
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	heen		
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other			
Section 6: Overall Outfall Characterization	tfall Characteriz	zation				
M Unlikely	Potential (prese	nce of two or	Potential (presence of two or more indicators) Suspect (one or more)	Suspect (one or more indicators with a severity of 3)	of 3) 🔲 Obvious	
Section 7: Data Collection	tion					
 Sample for the lab? 	?] Yes			
2. If yes, collected from	om:] Flow Pool			
3. Intermittent flow trap set?	ap set?		Yes No If Yes, type:	OBM Caulk dam		

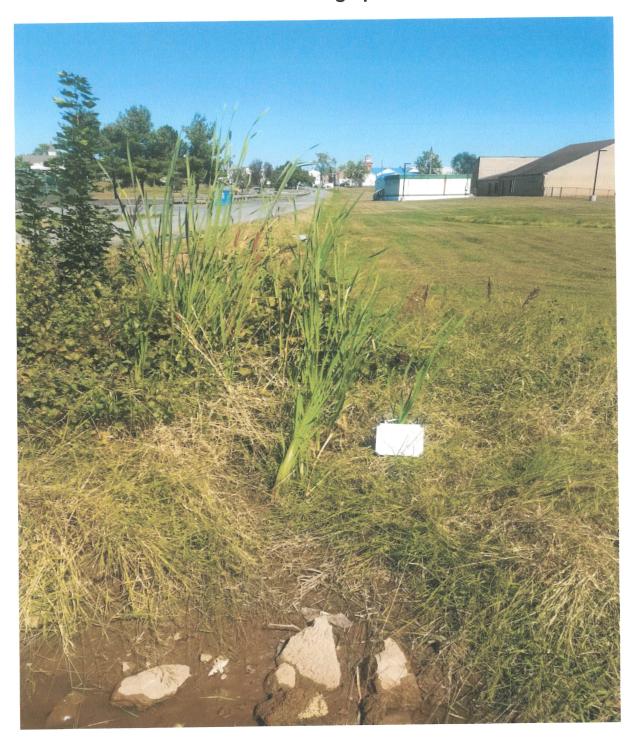
Outfall WLD1 (9/25/19)



Section 1: Backgrou	nd Data				
Subwatershed: Tom	s Creek		Outfall ID: WL	Ŋa	
	4/19		Time (Military):	157	
Investigators: 🖒 🕻 🤅	SAR		Form completed by:	DSP & SAR	
Temperature (°F): 77	7°F Rainfa	all (in.): Last 24 hours:			
Latitude: 39,7025	Longitude: -	77.330722	GPS Unit: TIME		
Camera: Samsung	S7 Edge		Photo #s: WLO	2 & WLOZ(1)	
Land Use in Drainage Ar	rea (Check all that apply):				
☐ Industrial			Open Space		
☐ Ultra-Urban Resident	ial		☐ Institutional		
Suburban Residential			Other;		
☐ Commercial			Known Industries:		
Notes (e.g, origin of out	(fall, if known):			-	
	DANIAN MANAGARAN MANAGARAN PERSENTAN MANAGARAN PERSENTAN MANAGARAN PERSENTAN				
Section 2: Outfall De	g			The second secon	gayy af karana mikana waka sa na na na
LOCATION	MATERIAL		IAPE	DIMENSIONS (IN.)	SUBMERGED
	RCP CMP	Cîrcular	☐ Single	Diameter/Dimensions:	In Water:
	□ PVC □ HDPE	☐ Eliptical	☐ Double		☐ Partially ☐ Fully
Closed Pipe	☐ Steel	☐ Box	Triple		With Sediment:
,	Other;	Other:	Other;		□ No
,					☐ Partially ☐ Fully
	☐ Concrete			21 (1)	
	⊠ Earthen	Trapezoid		Depth: <u>315"</u>	
Open drainage	☐ rip-rap	☑ Parabolic		Top Width: <u>5 '4</u> "	
	☐ Other:	Other:		Bottom Width: 11/0"	
☐ In-Stream	(applicable when collecting	samples)			
Flow Present?	☐ Yes 🔀 No		ip to Section 5		
Flow Description (If present)	☐ Trickle ☐ Moderate	Substantial			
Section 3: Anantitat	ive Characterization				
Section 5. Quantital	ive Characterization	FIELD DATA FOR F	LOWING OUTFALLS		
PARAMI	ETER	RESULT		JNIT EC	UIPMENT
200 Sy St. St. C. 2 (200 at Million agreement). In	Volume			Liter	Bottle
□Flow#I	Time to fill			Sec	
	Flow depth	<u> </u>		in Ta	pe measure
	Flow width	5 34		Ft, In Ta	npe measure
Flow #2	Measured length	. "		Ft, In Ta	ape measure
	Time of travel			S S	Stop watch
Tempera	ature			°F TI	nermometer
pН			pl	l Units Tes	st strip/Probe
Ammo	nia			mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes	dicators for Floors Present in the f	wing Outfalls Only ow? \square Yes \square No (if No, Skip to Section 5)	m 5)		
INDICATOR	CHECK if Present	DESCR		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	0	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ I – Faint colors in sample bottle	2 - Clearly visible in sample bottle	3 Clearly visible in outfall flow
Turbidity		See severity	☐ I — Slight cloudiness	ss 2 ~ Cloudy	3 – Opaque
Floatables -Does Not Include Trash!!		☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ I — Few/slight; origin not obvious	in 2 = Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floatin sanitary materials)
Section 5: Physical Indicators for Both Flowing and Non Are physical indicators that are not related to flow present?	licators for Bot	n-Flowing Outfalls ☐ Yes ☐ No	(If No, Skip to Section 6)		
INDICATOR	CHECK if Present	DESCR	NC TO THE REPORT OF THE THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE RE	COMMENTS	S
Outfall Damage		Spalling. Cracking or Chipping Corrosion	Pecling Paint		
Deposits/Stains		Oily	Other:		
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Hoatables ☐ Suds ☐ Excessive Algae	cs Oil Sheen Other:		
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green	Other:		
Section 6: Overall Outfall Characterization	fall Characteri	ation	·		
☑ Unlikely □	Potential (prese	Potential (presence of two or more indicators) Suspect (c	Suspect (one or more indicators with a seve	a severity of 3) Dovious	
Section 7: Data Collection	tion				
1. Sample for the lab?		☐ Yes ☐ No			
2. If yes, collected from:	m:	☐ Flow ☐ Pool			
3. Intermittent flow trap set?	ap set?	☐ Yes ☐ No If Y	If Yes, type: OBM Caulk dam	dam	

Outfall WLD2 (9/25/19) First Photograph



Outfall WLD2 (9/25/19) Second Photograph



Section 1: Backgr	ound Data	i			
Subwatershed: 101	ns Creek		Outfall ID: W		
Today's date: 9/2	5/19		Time (Military):	1:18 pm 13:18	MG
Investigators: DS	PESAR		Form completed by:		
Temperature (°F):	11º F	tainfall (in.): Last 24 hours:			
Latitude: 34, 70		le: -77,331113	GPS Unit: Trinbl		
Camera: Samsha	, 57 Edsi		Photo #s: WLD	3	
Land Use in Drainag	e Area (Check all that apply):				
☐ Industrial			Open Space		
Ultra-Urban Resi	dential		☐ Institutional		
Suburban Reside	ntial		Other: High D	ensity Residential ((R-J)
☐ Commercial			Known Industries: _		
Notes (e.g.,, origin o	f outfall, if known):			-	
	,				
Section 2: Outfal	l Description	power and the same of the property of the same of			Aunvenden
LOCATION	MATERIAL		IAPE	DIMENSIONS (IN.)	SUBMERGED
	□ RCP ACM	IP Circular	Single	Diameter/Dimensions:	In Water:
	☐ PVC ☐ HD	PE Eliptical	☐ Double	24"	Partially Fully
Closed Pipe	☐ Steel	☐ Box	☐ Triple		With Sediment:
/	☐ Other:	Other:	Other:		D¥-No ☐ Partĭally
					Fully
	Concrete				
	☐ Earthen	☐ Trapezoid		Depth:	
☐ Open drainage	☐ rip-rap	☐ Parabolic		Top Width:	
		☐ Other:		Bottom Width:	
	Other:	rative commisse)			
☐ In-Stream			ikip to Section 5		
Flow Present?	Yes	-	mp to believe		
Flow Description (If present)	☐ Trickle ☐ M	oderate Substantial		4	
C. Alexa 2. Organ	titative Characterizatio	an .			
Section 5: Quan	manye Characterizan		FLOWING OUTFALLS		
PA	RAMETER	RESULT			QUIPMENT
	Volume			Liter	Bottle
□Flow#1	Time to fill			Sec	
	Flow depth			In	Tape measure
	Flow width	y yy .		Ft, In	Tape measure
□Flow #2	Measured length	. "		Ft, In	Tape measure
	Time of travel			S	Stop watch
Te	emperature			۰F	Thermometer
	рН			pH Units	Test strip/Probe
	Ammonia	- 4		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes	dicators for Floors Present in the f	wing Outfalls low? ☐ Yes	Is \mathbf{Only} $ \mathbf{Only} $			
INDICATOR	CHECK if Present		DESCR	RE	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		☐ Sewage	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ 1 Faint	2 - Easily detected	☐ 3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	☐ 1 — Faint colors in sample bottle	☐ 2 ~ Clearly visible în 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 ☐ Petroleum (oil sheen)	Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:	l = Few/slight; origin not obvious	of origin (e.g., possible suds er 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?	licators for Botl	h Flowing ar ed to flow pr	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes X No (If No. Skip to Section 6)	Section 6)		
INDICATOR	CHECK if Present	resent	DESCRIPTION		COMMENTS	
Outfall Damage			☐ Spalling. Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	Paint		
Deposits/Stains	Ø		Oily How Line Paint Other	Rust	1	
Abnormal Vegetation			☐ Excessive ☐ Inhibited			×
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	iheen r:		
Pipe benthic growth			Brown Orange Green Other:	г.		
Section 6: Overall Outfall Characterization	fall Characteriz	ation				
M Unlikely	Potential (preser	nce of two or	Potential (presence of two or more indicators) Suspect (one or more indicators with	c indicators with a severity of 3)	of 3) Dovious	
Section 7: Data Collection	ion					
 Sample for the lab? 			Yes No			
If yes, collected from:	n:		Flow Pool			
3. Intermittent flow trap set?	p set?		Yes No If Yes, type:	□ OBM □ Caulk dam		

Outfall WLD3 (9/25/19)

