APPENDIX K HONOLULU HARBOR OUTFALL MAPS



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APPENDIX L OUTFALL RECONNAISSANCE INVENTPORY REPORTS



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Outfall	Date	Flow	Indicators	Overall Characterization	Notes
P 44/45-03	7/5/2012	None	Outfall damage from erosion, sediment and corrosion stains, healthy vegetation and fish	Potential	
P 41-03	7/5/2012	Moderate flow	Green benthic growth, outfall damage from erosion	Unlikely	
P 41-01	7/5/2012	None	Exposed pipe, sediment deposits, healthy pink coral		
P 38-04	7/5/2012	Moderate flow	Opaque turbidity, poor water quality due to sediment	Potential	1st upstream was wet with no flow or sediment. 2nd upstream was dry, no filter, and requires maintanence
P 38-01	7/5/2012	Moderate flow	Poor water quality with oil sheen	Potential	
P 37-02	7/5/2012	None	Algae deposits	Unlikely	Upstream trench drain wet
P 37-01	7/5/2012	Moderate flow	Slight cloudiness, viscous film on surface, brown benthic growth	Obvious	·
P 36-01	7/6/2012	Moderate flow	Sediment deposits, floating fibers	Obvious	Chased upstream 4 manholes from Hawaiian Ice on Nico's side and fibers are plastic shards
P 35-05	7/6/2012	Moderate flow	Green benthic growth, healthy fish	Unlikely	1st and 2nd manhole had flow present, drains in parking lot were dry
P 35-03	7/6/2012	Substantial flow	Petroleum odor, slight cloudiness, floating debris	Suspect	1st manhole flow was 5 gal/min and had a petroleum odor and debris. 2nd manhole was a y-junction with a 5 gal/min flow, petroleum odor and sediemtn deposits
P 34-06	7/6/2012	None	None	Unlikely	Upstream stream had no flow
P 34-03	7/6/2012	None	Sediment deposits	-	
P 34-02	7/6/2012	None	None	-	
P 34-04	7/6/2012	None	None	Unlikely	
P 35-05	7/6/2012	None	None	Unlikely	
P 34-01	7/6/2012	None	Upstream drain only. Heavy sediment	Unlikely	Needs maintenance, no filter
P 33-01/02	7/6/2012	None	Upstream drain only. Sediment deposits	Unlikely	1st drain had sediment and no flow, 2nd drain had no flow, sediment, 1 inch of water and trash
P 32-04	7/6/2012	None	Upstream drain only. Sediment deposits	Unlikely	Standing water and sediment
P 32-03	7/6/2012	None	Upstream drain only. None	Unlikely	Standing water. Needs to be cleaned, construction debris and waste were stored on top of drain
P 32-02	7/6/2012	-	Upstream trench drain only. Oil stains and sediment deposits	Potential	Drain contains heavy sediment and petroleum odor. Vehicle parking lot above drain
P 31-03	7/6/2012	-	Upstream drain only. None	Unlikely	Standing water, milky substance floating
P 31-02	7/6/2012	None	Upstream drain only. None	Unlikely	Standing water
P 31-01	7/6/2012	None	Upstream drain only. Gravel and sediement deposits	Unlikely	Standing water

Outfall	Date	Flow	Indicators	Overall Characterization	Notes
P 26-01	7/16/2012	-	Sheen noted in harbor waters, ~6 inches of sediment in vault box	Unlikely	
P 25-02/01	7/16/2012	-	Dry, no sediment, no staining, no indicators of discharge	Unlikely	
P 24-01	7/16/2012	-	Clear water, active fish in receiving water, tidal debris inside vault box, 2-4" of organic matter and trash	Unlikely	
P 23-03	7/16/2012	-	Standing water, green flowline algae, sediment deposit, grate cover has potential to fall in vault box	Unlikely	
P 23-02	7/16/2012	-	Light sediment and dry	Unlikely	
P 23-01	7/16/2012	-	Light sediment, drain closest to outfall was wet, trash in receiving waters and drain away from outfall had light sediment	Unlikely	
P 22-01	7/16/2012	-	Drain had greasy spots on grate cover and was full of water. Drain by building had 4" sediment build up	Unlikely	
P 21-06	7/16/2012	-	Two pipes leading to outfall, one was plugged with sediment and a rag	Unlikely	
P 21-03	7/16/2012	-	Dry, sediment rich, box culvert	Unlikely	
P 20-01	7/16/2012	-	Heavy sediment accumulation, unable to move grate, ~3/4 of pipe full with sediment	Unlikely	
P 19-08	7/16/2012	-	Tidal influence of water, light sediment, tidal water has sheen- most likely from incident	Unlikely	
P 19-01	7/16/2012	-	Tidal water influences heavy trash build up, grate covered by metal plate	Unlikely	
P 12-1 to P12-5	7/16/2012	None	No indicators, minor trash	Unlikely	
P 05-01 to P 05-03 and P 05-UT	7/16/2012	None	No indicators, some light sediment in grates, trash at P 05-03, P 05-02 had cigarette butts	Unlikely	
P 51A-01	7/17/2012	None	1" of sediment inside pipe	Unlikely	
P 51A-02	7/17/2012	None	Light sediment	Unlikely	
P 51A-03	7/17/2012	None	None	Unlikely	
P 51B-01	7/17/2012	None	Barnacles in first 2-3 ft of pipe	Unlikely	
P 51B-02	7/17/2012	None	Barnacles	Unlikely	
P 51B-03	7/17/2012	None	Barnacles	Unlikely	
P 51C-01	7/17/2012	None	Barnacles	Unlikely	
P 51C-02	7/17/2012		Rust, odorless flow	Unlikely	
P 51C-03	7/17/2012	None	None	Unlikely	

Outfall	Date	Flow	Indicators	Overall Characterization	Notes
P 52-01	7/17/2012	None	Water in pipe but no flow	Unlikely	
P 52-01	7/17/2012	None	Staining	Potential	
P 52-02	7/17/2012	None	None	Unlikely	
P 52-02	7/17/2012	None	Sediment deposits	Unlikely	
P 53-01	7/17/2012	None	Barnacles and sediment deposits	Unlikely	
P 04-BOX	7/18/2012	None	Barnacles and shells	Unlikely	
P 04-01	7/18/2012	None	Wet inside pipe, no flow, small amount of sediment	Unlikely	
P 04-BOX	7/18/2012	None	None	Unlikely	
P 04-00	7/18/2012	None	Barnacles, shells and leaves inside	Unlikely	4-5 ft pipe potentially clogged with bricks
P 01-01	7/18/2012	None	None	Unlikely	Vibrant coral and fish in area
P 01-02	7/18/2012	-	None	Unlikely	Across from Sand Island sign "Do not anchor" closest to ocean
P 02-01	7/18/2012	None	Yes	Unlikely	
P 02-05	7/18/2012	None	Yes	Unlikely	
P 02-06	7/18/2012	None	Barnacles and shells	Unlikely	
P 02-11	7/18/2012	None	Barnacles and shells	Unlikely	
P 02-13	7/18/2012	None	Barnacles and shells	Unlikely	
P 03-02 and 24" outfall	7/18/2012	None	Barnacles and shells	Unlikely	
18" outfall	7/18/2012	Trickle	Yes	Unlikely	At NW corner of Pier 3 building
P 03-BOX	7/18/2012	None	Yes	Unlikely	Fully submerged, only partially visible when water lowers. Located at corner of P3 closest to road
P 15-01	7/18/2012	None	Garbage inside, appears to be clogged	Unlikely	
P 44/45-03	7/18/2012	None	Barnacles and shells	Unlikely	
P 44/45-04	7/18/2012	None	None	Unlikely	
P 44/45-02	7/18/2012	None	Outfall damage from cracking, chipping or spalling	Unlikely	
P 44/45-01	7/18/2012	None	None	Unlikely	
P 35-04	7/19/2012	None	None	Unlikely	Area around outfall is bermed unable to get close to see sediment build up, if any
P 35-03	7/19/2012	Moderate flow	None	Unlikely	
P 35-02	7/19/2012	Trickle	Barnacles and shells	Unlikely	
P 35-01	7/19/2012	None	White stains in pipe	Unlikely	

Section 1: Backs	ground L)ata			~			
Subwatershed:				· · · · · · · · · · · · · · · · · · ·	Outfall ID:		5 P35	-04
Today's date:		7/19	12		Time (Military			
Investigators:	-	<u> </u>	-		Form complete	d by: $\sqrt{2}$		
Temperature (°F):			Rainfa	ll (in.): Last 24 hours: 0	Last 48 hours: 0)		.,
Latitutde:		Lo	ngitude:		GPS Unit:		GPS LMK#:	
Camera: Nikon-					Photo #s:	200 400		
Land Use in Draina	age Area (C	theck all that ap	ply):					
Industrial					Open Space	e		
Ultra-Urban Re	sidential				☐ Institutiona	1		
☐ Suburban Resid	lential				Other:			
Commercial					Known Industr	ries:		
Notes (e.g, origin				mows, vegetation along ca				
	A	ea cro	ud (wter 13 1	served u	nable to get	close	to see
Section 2: Outfa	all Descr	intion	Scalin	ent byildy	s, if any			
LOCATION		MATERI		SHA		DIMENSIO		SUBMERGED
<u> </u>		RCP	СМР	Circular	Single	Diameter/Dimens	ions:	In Water:
		PVC [HDPE	☐ Eliptical	Double	24"		3/y □ No □ Partially □ Fully
Closed Pipe		Steel		□ Box	☐ Triple			1
7 ` '	П	Other:		☐ Other:	Other:			With Sediment:
							Cont See	Partially
		Concrete						
		Earthen		☐ Trapezoid		Depth:		
☐ Open drainage	:	rip-rap		☐ Parabolic		Top Width:	_	
				☐ Other:		Bottom Width: _		
□ I. C		Other:						
☐ In-Stream Flow Present?		pplicable wher Yes			p to Section 5	MAC-1990-1-100-1-100-1-100-1-100-1-100-1-100-1-100-1-100-1-100-1-100-1-100-1-100-1-100-1-100-1-100-1-100-1-100	•	
Flow Description			····		p to Bottom 5			the state of the s
(If present)	ــا ا] Trickle [Moderate	e Substantial				And the second s
Section 3: Quar	ntitative	Characteriz	zation	•				
		• • • • •		FIELD DATA FOR F	LOWING OUTF	ALLS		
. P/	ARAMETE	R		RESULT		UNIT	E	QUIPMENT
□Flow #1		Volume				Liter		
	Ti	ime to fill		······		Sec		
→		low depth				<u>I</u> n		
□Flow #2		low width	<u> </u>	19		Ft, In		
"		sured length	0,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Ft, In		
<u></u>		ne of travel	 _			Sec .		
<u></u>	remperature	e 				°F		- t atris (Day)
	pН			4		pH Units	T	est strip/Probe
	Ammonia					ppm		Test strip

Outfall Reconnaiss_e Inventory Form

INDICATOR	CHECK if Present		DESCRIPTION	1		RE	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleu ☐ Other:	m/gas	☐ 1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	1 – Faint col		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	ſ	☐ 1 Slight cl	loudiness	2 - Cloudy	3 – Opaque
Floatables -Does Not Include		Sewage (Toilet Paper, etc.) Suds		☐ 1 – Few/slig	tht; origin	2 – Some; indications of origin (e.g.,	3 - Some; origin clear (e.g., obvious oil
Trash!! tes: Potential tidal influence etion 5: Physical In	nce due to low tide		nd Non-Flowing Outfall		not obvious Section 6)		possible suds or oil sheen)	sheen, suds, or floatin sanitary materials)
Trash!! tes: Potential tidal influe	nce due to low tide	th Flowing a	nd Non-Flowing Outfall resent? ☐ Yes 云 No				1 -	sanitary materials)
Trash!! tes: Potential tidal influe tion 5: Physical In physical indicators	nce due to low tide dicators for Bot that are not rela	th Flowing a	nd Non-Flowing Outfall resent? ☐ Yes 云 No	(If No, Skip to			sheen)	sanitary materials)
Trash!! tes: Potential tidal influence etion 5: Physical In physical indicators INDICATOR	dicators for Bot that are not rela CHECK if I	th Flowing a	nd Non-Flowing Outfalls resent?	(If No, Skip to	Section 6)	sediment	sheen)	
tes: Potential tidal influences: Physical Inc. physical indicators INDICATOR Outfall Damage	dicators for Bot that are not rela	th Flowing a	nd Non-Flowing Outfalls resent?	(If No, Skip to DESCRIPTION pping	Section 6)	sediment	sheen)	sanitary materials)
tes: Potential tidal influences: Physical Interphysical indicators INDICATOR Outfall Damage Deposits/Stains	dicators for Bot that are not rela	th Flowing a	nd Non-Flowing Outfalls resent? Yes No Spalling, Cracking or Chi Corrosion	(If No, Skip to DESCRIPTION pping Peelin Paint Other:	Section 6) 3 Paint Sheen	sediment	sheen)	sanitary materials)

Section 1: Backg	groun	ıd Data				<u> </u>		· · · · · · · · · · · · · · · · · · ·	
Subwatershed:					Outfall I	D:	P35-03	>	
Today's date:		7/14	12		Time (M	lilitary):	0815		
Investigators:		A			Form co	mpleted by:	A		
Temperature (°F):			Rainf	fall (in.): Last 24 hours: 0	Last 48 h	iours: 0			
Latitutde:		Lo	ongitude:		GPS Un			GPS LMK #:	
Camera: Nikon-					Photo #s	s: 402	-		
Land Use in Drains	age Are	ea (Check all that ap	oply):						
Industrial					☐ Oper	n Space			
□ Ultra-Urban Re	esidenti:	al			☐ Insti	tutional			
Suburban Resid	dential				Other: _				
☐ Commercial					Known	Industries:			
Section 2: Outfa	fall De	Comin escription	y ho	innows, vegetation along ca		A			
LOCATION	<u> </u>	MATERI		SHA	,		DIMENSIO	ONS (IN.)	SUBMERGED
SClosed Pipe		1	XICMP ☐ HDPE	Circular Eliptical Box Other:	Single Double Triple Other:		Diameter/Dimen	isions:	In Water: No Partially Fully With Sediment: No Partially Fully
□ Open drainage	3	Concrete Earthen rip-rap Other:		☐ Trapezoid ☐ Parabolic ☐ Other:			Depth: Top Width: Bottom Width: _		
☐ In-Stream		(applicable when	ı collecting	g samples)					Villianianianianiani
Flow Present?		Yes	□No	o If No, Ski	ip to Section	ı 5			
Flow Description (If present)		 / `	Modera		2 5g	***	\		
Section 3: Qua	ntitat	ive Characteriz	zation	Mable to ge	يا راه	25e to	effluer	+	
				FIELD DATA FOR F	LOWING	OUTFALLS	<u></u>	·	
P/	ARAMI	ETER		RESULT		U	JNIT	EC	QUIPMENT
∐Flow#1		Volume				I	Liter		
		Time to fill					Sec		
		Flow depth					In		
□Flow #2		Flow width	<u>0</u> '	,,		I	Ft, In		
LITIOW 11.2		Measured length	<u>0</u> '	"		. I	Ft, In		
		Time of travel					Sec .		
, <u></u>	Tempera	ature				<u> </u>	°F		
	pН					pF	I Units	Te	st strip/Probe
	Ammo			,		1	nnm		Test strip

Outfall Reconnais e Inventory Form

INDICATOR	CHECK if Present		DESCRIPTION	ON		RE	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petrole	eum/gas	☐ 1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color	×	Clear Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	☐ 1 — Faint cold sample bot		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	,	☐ 1 — Slight clo	oudiness	2 - Cloudy	☐ 3 Opaque
Floatables -Does Not Include Trash!!		Sewage (7	Foilet Paper, etc.) Suds (oil sheen) Other:		1 – Few/sligh	nt; origin	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)
	dicators for Bot		nd Non-Flowing Outfa			,		
	dicators for Bot	ted to flow p			o Section 6)		COMMENT	rs
ction 5: Physical Inc e physical indicators	dicators for Bot	ted to flow p		No (If No, Skip t DESCRIPTION	o Section 6) g Paint	4	COMMENT	rs
ction 5: Physical Inc e physical indicators INDICATOR	dicators for Bot that are not rela	ted to flow p	resent? Yes N	No (If No, Skip t DESCRIPTION		sediment		rs .
ction 5: Physical Inc e physical indicators INDICATOR Outfall Damage	dicators for Bot that are not rela CHECK if F	ted to flow p	resent? Yes N	No (If No, Skip t DESCRIPTION hipping Peelin Paint Other:		sediment		rs .
ction 5: Physical Inc e physical indicators INDICATOR Outfall Damage Deposits/Stains	dicators for Bot that are not related CHECK if F	ted to flow p	resent? Yes N Spalling, Cracking or C Corrosion Oily Flow Line	No (If No, Skip t DESCRIPTION Thipping Peelin Paint Other: Floatables Oi	g Paint	sediment		rs



ection 1: Backs Subwatershed:	groun	l O Data	Parameter (<u>f. 1</u> . 1 ₉ geleen) Fry		Outfall ID:	P35-02	,
Today's date:		7/16/	112		Time (Military):	7825	
Investigators:		A	<u> </u>		Form completed by:	0825 12	
Temperature (°F):	-,		Rainf	fall (in.): Last 24 hours: 0	Last 48 hours: 0	• •	
Latitutde:		I	Longitude:		GPS Unit:	GPS LMK	#:
Camera: Nikon-					Photo #s:	»·4	
Land Use in Draina	age Are	a (Check all that a	apply):				
Industrial					Open Space		
(□ Ultra-Urban Re	esidentia	al			☐ Institutional		
Suburban Resid	dential				Other;		
Commercial					Known Industries: _		
	of outf	all, if known): lar	ge crabs, Mi	nnows, vegetation along ca		de of canal, paper and plastic.	
		•		, in	•	• • •	
	 			1 //	**************************************		
ection 2: Outfa		scription MATER		SHA	INC.	DIMENSIONS (IN.)	SUBMERGED
LUCATION	<u>l</u>		DCMP	Circular SHA		Diameter/Dimensions:	In Water:
			1	'	Single	\8'\{	™ No
L			☐ HDPE	☐ Eliptical	Double	10	☐ Partially ☐ Fully
Closed Pipe		☐ SteeI		Box	∏ Triple		With Sediment:
		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	g samples)			<u>X</u> aaaaaaaaaaaaaaa
Flow Present?		Yes	□ No	o If No, Ski,	p to Section 5		
Flow Description (If present)		Trickle	☐ Modera	te 🗌 Substantial	A A A A A A A A A A A A A A A A A A A		
Section 3: Quar	ntitati	ive Character	rization				
				FIELD DATA FOR F	LOWING OUTFALLS	<u> </u>	
P/	ARAMI	ETER		RESULT		UNIT	EQUIPMENT
□Flow #1		Volume				Liter	
Littow #1		Time to fill				Sec	
		Flow depth				In	
☐Flow #2	<u> </u>	Flow width	<u>O</u> '	17		Ft, In	
	I	Measured length	<u>ō,</u>	"		Ft, In	
	<u> </u>	Time of travel				Sec	
	Fempera					°F	m
	pН				, p	H Units	Test strip/Probe
	Ammo	onia				ppm	Test strip

Outfall Reconnaiss ______ e Inventory Form

INDICATOR	CHECK if Present	Ì	DESCRIPTIO	N		RE	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleu ☐ Other:	ım/gas	☐ 1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color	Ŕ	Clear Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	☐ 1 – Faint col sample bo		2 Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 – Slight cl	oudiness	2 - Cloudy	3 - Opaque
Floatables		Sewage (7	Toilet Paper, etc.) 🔲 Suds		☐ 1 – Few/slig	ht: origin	2 – Some; indications of origin (e.g.,	3 - Some; origin clear (e.g., obvious oil
	ndicators for Bot		nd Non-Flowing Outfail		not obvious		possible suds or oil sheen)	sheen, suds, or floatin sanitary materials)
Trash!! otes: Potential tidal influ	ence due to low tide	h Flowing a	nd Non-Flowing Outfail resent?		not obvious Skip to Section 6)		possible suds or oil	sheen, suds, or floatin sanitary materials)
Trash!! otes: Potential tidal influ ction 5: Physical In e physical indicator	ence due to low tide ndicators for Bot s that are not rela	h Flowing a	nd Non-Flowing Outfail resent?	DESCRIPTION	not obvious Skip to Section 6)		possible suds or oil sheen)	sheen, suds, or floatin sanitary materials)
Trash!! otes: Potential tidal influction 5: Physical Interphysical indicator INDICATOR	ence due to low tide ndicators for Bot s that are not rela CHECK if I	h Flowing a ted to flow pr Present	nd Non-Flowing Outfail resent? Yes No	DESCRIPTION Ipping	not obvious Skip to Section 6)		possible suds or oil sheen) COMMENT	sheen, suds, or floatin sanitary materials)
Trash!! otes: Potential tidal influction 5: Physical Interphysical indicator INDICATOR Outfall Damage	ence due to low tide ndicators for Bot s that are not rela CHECK if I	h Flowing a ted to flow pr Present	nd Non-Flowing Outfail resent? Yes No Spalling, Cracking or Chi Corrosion	DESCRIPTION Ipping	Skip to Section 6) Peeling Paint		possible suds or oil sheen) COMMENT	sheen, suds, or floatin sanitary materials)
Trash!! otes: Potential tidal influction 5: Physical Interphysical indicator INDICATOR Outfall Damage Deposits/Stains	ence due to low tide ndicators for Bot s that are not rela CHECK If I	h Flowing a ted to flow pr Present	nd Non-Flowing Outfail resent? Yes No Spalling, Cracking or Chi Corrosion	DESCRIPTION ipping Paint Floatables	Skip to Section 6) Peeling Paint		possible suds or oil sheen) COMMENT	sheen, suds, or floatin sanitary materials)

Subwatershed:				Outfall ID:	P35-01	
Today's date:		7 19)1	2	Time (Military):	0830	
Investigators:		AZ_		Form completed by:		
Temperature (°F):		Rainfa	ll (in.): Last 24 hours:	D Last 48 hours: 0		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Latitutde:	:	Longitude:		GPS Unit:	GPS LMF	ζ#:
Camera: Nikon-				Photo #s:	5,406	
Land Use in Draina	ge Area (Check all that	apply):				
Industrial				Open Space		
l ` □ Ultra-Urban Res	sidential			☐ Institutional		
□ Suburban Reside					, , , , , , , , , , , , , , , , , , , ,	
☐ Commercial				Known Industries:		
Notes (e.g, origin of the control		rge crabs, Mir	nnows, vegetation atong (canai is sparse, trasn on s	ide of canal, paper and plastic.	
LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
	□ RCP	Б СМР	(Circular	X Single	Diameter/Dimensions:	In Water:
	□ PVC	☐ HDPE	☐ Eliptical	☐ Double	241	│
Closed Pipe	☐ Steel		Box	☐ Triple		☐ Fully
1,30,0000 1,100	Other:		☐ Other:	☐ Other:	_	With Sediment:
	C. Oulei.		Li Other.	Culci		Partially Fully
	☐ Concrete	**************************************				
	☐ Earthen		☐ Trapezoid		Depth:	
Open drainage	☐ rip-rap		☐ Parabolic		Top Width:	
			☐ Other:		Bottom Width:	
☐ In-Stream	Other:	en collecting	samples)			
Flow Present?	☐ Yes	DE MO		cip to Section 5		
Flow Description	☐ Trickle	☐ Moderat			ooyandaminy (14 say)	
(If present)		based				
ection 3: Quar	titative Characte	rization		<u></u>		
				FLOWING OUTFALLS		
PA	RAMETER		RESULT		UNIT	EQUIPMENT
□Flow#1	Volume				Liter	
	Time to fill				Sec	
-	Flow depth				In	
□Flow #2	Flow width	<u>v</u>	"		Ft, In	
-	Measured length	0'	"		Ft, In	
	Time of travel				Sec	
T	'emperature				°F	
	pH			I	oH Units	Test strip/Probe
	Ammonia				ppm	Test strip

Outfall Reconnaiss _____ e Inventory Form

INDICATOR	CHECK if Present	·	DESCRIPTIO	N		RE	LATIVE SEVERITY INDEX	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleu☐ Other:	ım/gas	☐ 1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	1 – Faint c sample t		2 – Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbidity			See severity		☐ 1 – Slight	cloudiness	2 - Cloudy	☐ 3 – Opaque
Floatables	m	Sewage (Toilet Paper, etc.) Suds		☐ 1 – Few/sI	ight; origin	2 – Some; indications of origin (e.g.,	3 - Some; origin clear (e.g., obvious oil
	dicators for Bot		and Non-Flowing Outfall		not obvious		possible suds or oil sheen)	sheen, sugs, or floatin sanitary materials)
Trash!! tes: Potential tidal influe	ence due to low tide	th Flowing a	and Non-Flowing Outfall		to Section 6)		1 ^	sanitary materials)
Trash!! tes: Potential tidal influence ction 5: Physical In e physical indicators	dicators for Bot that are not rela	th Flowing a	and Non-Flowing Outfall	o (If No, Skip DESCRIPTION			sheen)	sanitary materials)
Trash!! tes: Potential tidal influence etion 5: Physical Inc. physical indicators INDICATOR	dicators for Bot that are not rela	th Flowing a ted to flow p Present	and Non-Flowing Outfall oresent? Yes No	o (If No, Skip DESCRIPTION	to Section 6)	sediment	Sheen) COMMEN	rs .
Trash!! tes: Potential tidal influence: ction 5: Physical Inc. physical indicators INDICATOR Outfall Damage	dicators for Bot that are not related	th Flowing a ted to flow p Present	and Non-Flowing Outfall oresent? Yes No	o (If No, Skip DESCRIPTION ipping	to Section 6)	sediment	Sheen) COMMEN	sanitary materials)
Trash!! tes: Potential tidal influence: Physical Interphysical indicators INDICATOR Outfall Damage Deposits/Stains	dicators for Bot that are not rela	th Flowing a ted to flow p Present	and Non-Flowing Outfall bresent? Yes No Spalling, Cracking or Ch Corrosion	DESCRIPTION ipping	to Section 6)	sediment	Sheen) COMMEN	sanitary materials)

Section 1: Back	groun	nd Data		· · · · · · · · · · · · · · · · · · ·				
Subwatershed:					Outfall ID:	P04 -1		
Today's date:	-	7/18/12			Time (Military):	0805		
Investigators:		'Ae'			Form completed	0805 by: AQ		
Temperature (°F):			Rainfa	all (in.): Last 24 hours: 0	Last 48 hours: 0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Latitutde:		Long	itude:		GPS Unit:		GPS LMK #:	
Camera: Nikon-					Photo #s:			
Land Use in Drain	age Are	ea (Check all that apply	·):					
Industrial					Open Space			
Ultra-Urban Re	esidenti	al			☐ Institutional			
Suburban Resi	dential				Other:			
☐ Commercial					Known Industrie	s:		
Notes (e.g, origin #35	1,	355	abs, Mir	nnows, vegetation along ca	anal is sparse, trash c	on side of canal, paper a	and plastic.	ESTEANTIANTIA FINNES CAN COMPANIA MET IN LOS TESTINA METANOS ANCIANOS (MARIOS ANCIANOS ANCIAN
LOCATION		MATERIAL		SH	APE	DIMENSIC	NS (IN.)	SUBMERGED
		□RCP 🔯	CMP	☐ Circular	Single	Diameter/Dimen	sions:	In Water:
		PVC :	HDPE	☐ Eliptical	Double	8H x	3Ft dep	Yz No Partially Fully
Closed Pipe		☐ Steel		Box	☐ Triple			With Sediment:
		Other:		Other:	Other:			With Sediment: No ☐ Partially ☐ Fully
		☐ Concrete				Dord		
		☐ Earthen		☐ Trapezoid		Depth:		
☐ Open drainage	:	□ гір-гар		☐ Parabolic		Top Width:		
		☐ Other:		Other:		Bottom Width: _		
☐ In-Stream	***********	(applicable when co	llecting	samples)	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		xaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
Flow Present?		☐ Yes	M)No	If No, Ski	p to Section 5			
Flow Description (If present)		☐ Trickle ☐	Moderat	e 🔲 Substantial				
Section 3: Oua	ntitati	ive Characteriza	ion					
			-	FIELD DATA FOR F	LOWING OUTFA	LLS		
P.	ARAMI	ETER		RESULT		UNIT	EC	QUIPMENT
□ Flore #1		Volume				Liter		
∏Flow#1		Time to fill				Sec		
		Flow depth				In		
∏Flow #2		Flow width	<u>0</u> ,	**		Ft, In		
	i	Measured length	0,	**		Ft, In		
		Time of travel	<u> </u>			Sec		·
	rempera	ature				°F		
	pН					pH Units	Te	st strip/Probe
	Ammo	onia				ppm		Test strip

Outfall Reconnaise e Inventory Form

INDICATOR	CHECK if Present		DESCRIPTION	I	i i	REL	ATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleun☐ Other:	n/gas	☐ 1 — Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	☐ 1 – Faint colo sample bott		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		1 – Slight clo	udiness	2 - Cloudy	3 – Opaque
Floatables		Sewage (To	oilet Paper, etc.) 🔲 Suds		☐ 1 — Few/slight	t; origin	2 – Some; indications of origin (e.g., possible suds or oil	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating
	ndicators for Bot		nd Non-Flowing Outfalls		not obvious		sheen)	sanitary materials)
Trash!! otes: Potential tidal influ	ence due to low tide	h Flowing an	nd Non-Flowing Outfalls esent? Yes No				1 -	sanitary materials)
Trash!! otes: Potential tidal influenction 5: Physical Incre physical indicator	ence due to low tide adicators for Bot s that are not relat	h Flowing an ted to flow pre	nd Non-Flowing Outfalls esent? Yes No	(If No, Skip to	Section 6)		sheen)	sanitary materials)
Trash!! otes: Potential tidal influence ection 5: Physical Interphysical indicator INDICATOR	ndicators for Bots that are not rela	h Flowing an ted to flow pre Present	nd Non-Flowing Outfalls esent? Yes No	(If No, Skip to DESCRIPTION pping □ Peeling	Section 6)	sediment a	sheen) COMMENT	sanitary materials)
Trash!! otes: Potential tidal influence ection 5: Physical Interphysical indicator INDICATOR Outfall Damage	ndicators for Bots that are not related CHECK if F	h Flowing an ted to flow pre-	ad Non-Flowing Outfalls esent? Yes No Spalling, Cracking or Chip Corrosion	(If No, Skip to DESCRIPTION pping □ Peeling	Section 6)	sediment a	sheen) COMMENT	sanitary materials)
Trash!! otes: Potential tidal influenction 5: Physical Introduction INDICATOR Outfall Damage Deposits/Stains	ence due to low tide Indicators for Bot In that are not relate CHECK if F	h Flowing an ted to flow precent	ad Non-Flowing Outfalls esent? Yes No Spalling, Cracking or Chip Corrosion Oily Flow Line F	(If No, Skip to DESCRIPTION Piping Peeling Paint Other:	Section 6) Paint Parnules / Ghells	sediment a	sheen) COMMENT	sanitary materials)

Section 1: Back	groun	d Data		venut en						
Subwatershed:						Outfall I	D:	44-01		
Today's date:	7/1	8/12				Time (M	ilitary):	•		
Investigators:	/h_					Form co	mpleted by:	M		
Temperature (°F):				Rainfa	ll (in.): Last 24 hours: () Last 48 h	ours: 0			,
Latitutde:			Long	tude:		GPS Un	it:		GPS LMK #:	
Camera: Nikon-						Photo #s	:		· · ·	
Land Use in Draina	age Are	a (Check all th	at apply	·):						
Industrial						🗀 Oper	n Space			
Ultra-Urban Re Ultr	sidentia	ս				☐ Instit	tutional			
Suburban Resid	iential					Other: _				
Commercial						Known	Industries:			
Notes (e.g, origin	of outf	all, if known):	large cr	abs, Min	nows, vegetation along o	anal is spars	e, trash on sic	le of canal, paper	and plastic.	
#3570	,		V.	set	inside pipe	, No	2 60	w.		
Section 2: Outf	all De									
LOCATION			ERIAL		SH	APE		DIMENSI	ONS (IN.)	SUBMERGED
		RCP	团	CMP	Circular	Single		Diameter/Dime	nsions:	In Water:
		□ PVC		HDPE	☐ Eliptical	Double		1811		No Partially
Closed Pipe		☐ Steel			☐ Box	☐ Triple				☐ Fully
		Other:			Other:	Other:				With Sediment:
1				_						Partially Fully
		☐ Concrete				<u>.</u>				
		☐ Earthen			☐ Trapezoid			Depth:		
Open drainage	;	 □ rip-rap			☐ Parabolic			Top Width:		
					☐ Other:			Bottom-Width:		
		Other:			<u> </u>		•			
☐ In-Stream		(applicable	when co							
Flow Present?		☐ Yes)XI)No	If No, Sk	tip to Section	15			And the second of the second o
Flow Description (If present)	N	☐ Trickle		Moderat	e Substantial	S		and the state of t		The state of the s
Section 3: Qua	ntitati	ive Charac	teriza	tion						***
			 · · · ·		FIELD DATA FOR I	FLOWING	1		-1	
P/	ARAMI				RESULT			JNIT	E	QUIPMENT
□Flow#1		Volume		-				Liter		
		Time to fill		 				Sec		
		Flow depth		0,	23			In Ft, In		
□Flow #2	 	Flow width Measured leng	etla.	<u> </u>	"			Ft, In Ft, In		
	ļ	Time of trave		 				Sec		
(Tempera	-	,ı	-			•	°F		· · · · · · · · · · · · · · · · · · ·
<u></u>		 		+			n I	I Units	Tz	est strip/Probe
	pН			-			P	. Jing	<u> </u>	oc output tooc

Ammonia

Test strip

ppm

Outfall Reconnais te Inventory Form

INDICATOR	CHECK if Present		DESCRIPTION	f.		REI	ATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleur ☐ Other:	n/gas	☐ 1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yeilow ☐Other:	☐ 1 — Faint col sample bo		2 - Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 – Slight cl	oudiness	2 - Cloudy	☐ 3 — Opaque
Floatables		Sewage (T	Coilet Paper, etc.) 🔲 Suds		☐ 1 – Few/slig	ht; origin	2 - Some; indications of origin (e.g.,	3 - Some; origin clear (e.g., obvious oil
	dicators for Bot		nd Non-Flowing Outfalls		not obvious		possible suds or oil sheen)	sneen, suds, or noating sanitary materials)
Trash!! otes: Potential tidal influe	ence due to low tide	h Flowing ar	nd Non-Flowing Outfalls					sanitary materials)
Trash!! otes: Potential tidal influence ction 5: Physical In e physical indicators	ence due to low tide adicators for Bot s that are not relat	h Flowing arted to flow pr	nd Non-Flowing Outfalls	(If No, Skip to S	Section 6)		sheen) COMMENT	sanitary materials)
Trash!! otes: Potential tidal influence ction 5: Physical In e physical indicators INDICATOR	adicators for Bots that are not related	h Flowing arted to flow pr	nd Non-Flowing Outfalls resent? Yes No Spalling, Cracking or Chip	(If No, Skip to S	Section 6)	edimenta	sheen) COMMENT	'S
Trash!! otes: Potential tidal influences: Physical Interpretation of the physical indicators INDICATOR Outfall Damage	adicators for Bots that are not related	h Flowing arted to flow pr	nd Non-Flowing Outfalls resent? Yes No Spalling, Cracking or Chip	(If No, Skip to S DESCRIPTION pping	Section 6)	ediment	sheen) COMMENT	sanitary materials)
Trash!! otes: Potential tidal influences: Physical Interpretation of the physical indicators INDICATOR Outfall Damage Deposits/Stains	adicators for Bots that are not related CHECK if P	h Flowing arted to flow pr	nd Non-Flowing Outfalls resent?	(If No, Skip to S DESCRIPTION pping	Section 6) Paint	eediment	sheen) COMMENT	sanitary materials)

Section 1: Back	groun	d Data		additional Self-Indiana More and Marie Total Self-Indian Copy (1994) (1994)			<u> </u>	·····	
Subwatershed:					Outfall ID:	<u> </u>	04 - B	<u>04</u> 3	<u> </u>
Today's date:		7/18/12 AR			Time (Milita	ary): 🐔	813		
Investigators:		AC-			Form compl	eted by:			
Temperature (°F):			Rainfa	all (in.): Last 24 hours: (Last 48 hours	s: 0			
Latitutde:		Lon	gitude:		GPS Unit:		_	GPS LMK #:	
Camera: Nikon-					Photo #s:				
Land Use in Drain	age Are	a (Check all that app	y):						
☐ Industrial					☐ Open Sp	ace			
Ultra-Urban Re	esidenti	al			Institutio	onal			
☐ Suburban Resid	dential				Other:				
☐ Commercial					Known Indu	ustries:		<u></u>	
Notes (e.g, origin	of outf	fall, if known): large	rabs, Mi	nnows, vegetation along c	anal is sparse, tr	ash on side	of canal, paper	and plastic.	
# 35	7 -7	35 <u>6 </u>	A	pprox 20Ft	So Fas	1-64	19491		
Section 2: Outf	all De	scription					а, .	·····	·
LOCATION	ı	MATERIA	L	SH	APE		DIMENSI	ONS (IN.)	SUBMERGED
	·	'	CMP HDPE	☐ Circular ☐ Eliptical	Single		Diameter/Dimer 8f+ × ~	_	In Water: No No Partially Fully
M Classed Pins		☐ Steel	прев	Box	Triple		<u> </u>		75 Fully
Closed Pipe				'	-				With Sediment: Cont
•		Other:		Other:	Other:				7 Partially
<u> </u>		☐ Concrete					Donth		
P7		☐ Earthen		Trapezoid			Depth:		
Open drainage	•	☐ rip-rap		☐ Parabolic			Top Width:		
		Other:		Other:			Bottom Width:		
☐ In-Stream		(applicable when	ollecting	(samples)			· .	• • •	Xaaaaaaaaaaaaaaaaaaaaaaaa
Flow Present?		☐ Yes	ÞØ)No	If No, Sk	ip to Section 5				
Flow Description (If present)		☐ Trickle ☐	Moderat	te Substantial					
Section 3: Oua	ntitat	ive Characteriza	ition						
				FIELD DATA FOR F	LOWING OU	TFALLS			
P	ARAM	ETER		RESULT		U	NIT	E	QUIPMENT
		Volume				L	iter		
∏Flow #1		Time to fill	İ			5	Sec		
		Flow depth					In		
□ □ □ 0 · · · · · · · · · · · · · · · ·		Flow width	0,	17		F	t, In		
∏Flow #2		Measured length	<u>0</u> ,	"		F	t, In		
l		Time of travel				Ç	Sec		
,	Temper	ature					°F		
	pН					pН	Units	. Te	est strip/Probe
	Ammo	onia					pm		Test strip

Outfall Reconnais : e Inventory Form

INDICATOR	CHECK if Present		DESCRIPTION	ſ	:	RE	ATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleur☐ Other:	n/gas	☐ 1 – Faint		2 – Easily detected	3 Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐ Other:	1 – Faint cole sample bot		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 – Slight clo	oudiness	2 - Cloudy	☐ 3 – Opaque
		Course mp (Te	2.5				2 – Some; indications	3 - Some; origin clear
Floatables -Does Not Include Trash!! tes: Potential tidal influence	ence due to low tide	Petroleum (oilet Paper, etc.) Suds (oil sheen) Other:		☐ 1 – Few/slight not obvious	nt; origin	of origin (e.g., possible suds or oil sheen)	(e.g., obvious oil sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influence tion 5: Physical In	ence due to low tide	□ Petroleum o	(oil sheen) ☐ Other:		not obvious	nt; origin	possible suds or oil	sheen, suds, or floating
-Does Not Include Trash!! tes: Potential tidal influence tion 5: Physical Ir physical indicator	ence due to low tide dicators for Bot s that are not relat	h Flowing an	oil sheen)	(If No, Skip to S	not obvious	nt; origin	possible suds or oil sheen)	sheen, suds, or floatin sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influence tion 5: Physical In	ence due to low tide	h Flowing and ted to flow properties	oil sheen)	(If No, Skip to S	not obvious Section 6)	nt; origin	possible suds or oil	sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influence etion 5: Physical Inc. physical indicator INDICATOR	ence due to low tide adicators for Bot s that are not relat CHECK if F	h Flowing an	oil sheen)	(If No, Skip to S DESCRIPTION ping	not obvious Section 6)	sediment a	possible suds or oil sheen) COMMENT	sheen, suds, or floatin sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influence etion 5: Physical Includes physical indicator INDICATOR Outfall Damage	ence due to low tide adicators for Bot s that are not relat CHECK if F	h Flowing and ted to flow pre-	oil sheen)	(If No, Skip to S DESCRIPTION ping	not obvious Section 6)		possible suds or oil sheen) COMMENT	sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influence ction 5: Physical Ir e physical indicator INDICATOR Outfall Damage Deposits/Stains	ence due to low tide adicators for Bot s that are not relat CHECK if F	h Flowing and ted to flow pre-	d Non-Flowing Outfalls esent? Yes No Spalling, Cracking or Chip Corrosion	(If No, Skip to S DESCRIPTION ping Peeling I Paint Other: Floatables Oil S	not obvious Section 6) Paint		possible suds or oil sheen) COMMENT	sheen, suds, or floatin sanitary materials)

Section 1: Back	groun	ıd Data		alan da				
Subwatershed:					Outfall ID:	19-00		
Today's date:	-	7 18/12			Time (Military):	0815		
Investigators:		'AR			Form completed by:	凡		
Temperature (°F):			Rainfa	all (in.): Last 24 hours: 0	Last 48 hours: 0			
Latitutde:		L	ongitude:		GPS Unit:	I	S LMK #:	
Camera: Nikon-					Photo #s: 35	59-360-	361	
Land Use in Drain	age Are	a (Check all that a	pply):					
[A]Industrial					☐ Open Space			
Ultra-Urban Re	esidenti	al			Institutional			
Suburban Resid	dential				Other:			
☐ Commercial					Known Industries:			
	· P	pe potent		nnows, vegetation along co		de of canal, paper and p	plastic.	
LOCATION		MATER:	[AL	SHA	APE	DIMENSIONS	(IN.)	SUBMERGED
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Д СМР	Circular	Single	Diameter/Dimensions		In Water:
			/ HDPE	☐ Eliptical	☐ Double	# ZY"	_	☐ No ☐ Partially
Closed Pipe		☐ Steel		☐ Box	☐ Triple			☐ Fully
<i>[</i>		☐ Other:		Other:	☐ Other:			With Sediment: ☐ No ☐ Partially ☐ Fully
□ Open drainage	>	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:		
☐ In-Stream		(applicable whe	n collecting	samples)		<u> </u>	, , , , , , , , , , , , , , , , , , , 	
Flow Present?		☐ Yes	XI)No	If No, Ski	p to Section 5		· ,	· · · · · · · · · · · · · · · · · · ·
Flow Description (If present)		☐ Trickle	☐ Moderat	<u> </u>				
Section 3: Qua	ntitati	ive Characteri	zation					
				FIELD DATA FOR F	LOWING OUTFALLS	,	:	
P/	ARAMI	ETER		RESULT		UNIT	EQ	UIPMENT
		Volume				Liter		
∏Flow#1		Time to fill				Sec		
		Flow depth				In		
Flow #2		Flow width	<u>0</u> '	23		Ft, In		
LICOW #2		Measured length	<u>0</u> ,	23		Ft, In		
-		Time of travel				Sec		
	rempera	ature				°F		
	pН				p	H Units	Tes	t strip/Probe
	Ammo	onia				ppm		Test strip

Outfall Reconnaiss e Inventory Form

INDICATOR	CHECK if Present		DESCRIPTIO	N		RE	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petrolet☐ Other:	ım/gas	☐ 1 — Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	☐ 1 – Faint cold sample bot		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 — Slight clo	oudiness	2 - Cloudy	3 – Opaque
Floatables		☐ Sewage (Toilet Paper, etc.) Suds		☐ 1 – Few/sligh	nt; origin	2 – Some; indications of origin (e.g.,	3 - Some; origin clear (e.g., obvious oil
	dicators for Bot	☐ Petroleun	and Non-Flowing Outfall		not obvious		possible suds or oil sheen)	
Trash!! stes: Potential tidal influence	ence due to low tide	Petroleun	and Non-Flowing Outfall					sheen, suds, or floatin sanitary materials)
Trash!! tes: Potential tidal influence ction 5: Physical In e physical indicators	ence due to low tide adicators for Bot s that are not rela	Petroleun	and Non-Flowing Outfall	o (If No, Skip DESCRIPTION	not obvious		sheen)	sheen, suds, or floating sanitary materials)
Trash!! otes: Potential tidal influence ction 5: Physical In physical indicator: INDICATOR	adicators for Bots that are not rela	Petroleun th Flowing a ted to flow p	and Non-Flowing Outfall oresent? Yes No Spalling, Cracking or Ch Corrosion	o (If No, Skip DESCRIPTION	not obvious to Section 6) ing Paint	c sediment	commen	sheen, suds, or floating sanitary materials)
Trash!! otes: Potential tidal influence ction 5: Physical Interphysical indicator: INDICATOR Outfall Damage	ence due to low tide adicators for Bot s that are not rela CHECK if I	Petroleun th Flowing a ted to flow p	and Non-Flowing Outfall oresent? Yes No Spalling, Cracking or Ch Corrosion	o (If No, Skip DESCRIPTION ipping Peel	to Section 6)	(sediment	sheen) COMMENT	sheen, suds, or floating sanitary materials)
Trash!! tes: Potential tidal influence ction 5: Physical Ir e physical indicators INDICATOR Outfall Damage Deposits/Stains	ence due to low tide adicators for Bot s that are not rela CHECK if I	Petroleun th Flowing a ted to flow p	and Non-Flowing Outfall resent? Yes No Spalling, Cracking or Ch Corrosion	DESCRIPTION ipping Peel Paint Other	not obvious to Section 6) ing Paint	sediment	commen	sheen, suds, or floatin sanitary materials)

Subwatershed: Today's date: 7 18 12 Time (Military): 0 335 Investigators:	ERGED
Notestigators: Note	ERGED
Temperature (°F): Rainfall (in.): Last 24 hours: 0 Lattitutde: GPS Unit: GPS LMK #: Camera: Nikon- Land Use in Drainage Area (Check all that apply): Sindustrial Other: Commercial Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. Section 2: Outfall Description LOCATION MATERIAL SHAPE DIMENSIONS (IN.) SUBME COMP ERGED	
Latitutde: Longitude: GPS Unit: GPS LMK #: Camera: Nikon- Photo #s: 362 Land Use in Drainage Area (Check all that apply): Open Space Open Space Institutional Institutional Other: Commercial Commercia	ERGED
Photo #s: 362 Land Use in Drainage Area (Check all that apply): Deep Space	ERGED
Land Use in Drainage Area (Check all that apply): Industrial	ERGED
Open Space Ultra-Urban Residential Institutional Other: Commercial Known Industries: Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic.	ERGED
Ultra-Urban Residential	ERGED
Suburban Residential Other:	
Commercial Known Industries:	
Notes (e.g, origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. Vivcont (o.g.) and fish in over. ection 2: Outfall Description LOCATION MATERIAL SHAPE DIMENSIONS (IN.) SUBME RCP CMP Circular Dimensions: In Water: Dimensions: In Water: Dimensions: Pvc HDPE Eliptical Double 2 the part Ful Closed Pipe Steel Box Triple With Sedime No Part Double Double No Part Part No Part Double Double No Part Part No Part Part Double Doub	
Closed Pipe Cocal and fish in over Cocal and fish in over	
Closed Pipe Steel Other:	
LOCATION MATERIAL SHAPE DIMENSIONS (IN.) SUBME PROP CMP CMP Circular Double 2'1' Par Ful With Sedime No Par Par Par Par Par Par Par Pa	
LOCATION MATERIAL SHAPE DIMENSIONS (IN.) SUBME PROP CMP CMP Circular Double 2'1' Par Ful With Sedime No Par Par Par Par Par Par Par Pa	
PVC Eliptical Double 2-4-11 MNo Par Ful Ful Ful Mook Par Pul	,
PVC Eliptical Double 2-1 Par Par Ful Ful Pul P	•
Closed Pipe Steel Other: Other: Other: Other:	rtially
Other: Other: Other: With Sedime \(\bar{\text{\text{W}}}\) No Par	lly
Par	
	rtially
□ Concrete _	
☐ Trapezoid Depth:	
☐ Open drainage ☐ Parabolic ☐ Top Width:	
☐ Other: Bottom Width:	
☐ Other: (applicable when collecting samples)	
Flow Present? Yes No If No, Skip to Section 5	
Flow Description (If present)	<u> </u>
	<u> , </u>
Section 3: Quantitative Characterization FIELD DATA FOR FLOWING OUTFALLS	
PARAMETER RESULT UNIT EQUIPMENT	
Volume Liter	
Flow #1 Sec	
Flow depth In	
Flow width 0' " Ft. In	
Flow #2 Measured length 0' " Ft, In	
Time of travel Sec	
Temperature °F	
pH Units Test strip/Probe	

Outfall Reconnais ____ ce Inventory Form

INDICATOR	CHECK if Present		DESCRIPTION	ı		REI	LATIVE SEVERITY INDEX	(1-3)
Odor	П	☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleum ☐ Other:	n/gas	1 - Faint		2 – Easily detected	3 Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	1 – Faint col-		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity		1	See severity		1 – Slight ele	oudiness	2 – Cloudy	☐ 3 – Opaque
Floatables		☐ Sewage (Toilet Paper, etc.)		☐ 1 – Few/sligl	ht; origin	2 – Some; indications of origin (e.g.,	3 - Some; origin clear (e.g., obvious oil
	dicators for Bot		and Non-Flowing Outfalls		not obvious		possible suds or oil sheen)	
Trash!! otes: Potential tidal influ	ence due to low tide	th Flowing a ted to flow p	and Non-Flowing Outfalls present? Yes No		not obvious		possible suds or oil	sheen, suds, or floati sanitary materials)
Trash!! otes: Potential tidal influ ction 5: Physical In e physical indicator	ence due to low tide adicators for Bot s that are not rela	th Flowing a ted to flow p	and Non-Flowing Outfalls present? Yes No	(If No, Skip to a	not obvious Section 6)		possible suds or oil sheen)	sheen, suds, or floating sanitary materials)
Trash!! otes: Potential tidal influence ction 5: Physical In e physical indicator INDICATOR	adicators for Bots that are not rela	th Flowing a ted to flow p	and Non-Flowing Outfalls present? Yes No	(If No, Skip to a DESCRIPTION uping Peeling	not obvious Section 6)	sediment a	possible suds or oil sheen) COMMENT	sheen, suds, or floating sanitary materials)
Trash!! otes: Potential tidal influence ction 5: Physical Interphysical indicator INDICATOR Outfall Damage	ence due to low tide adicators for Bot s that are not rela CHECK if I	th Flowing a ted to flow p	and Non-Flowing Outfalls oresent? Yes No	(If No, Skip to a DESCRIPTION uping Peeling	not obvious Section 6)		possible suds or oil sheen) COMMENT	sheen, suds, or floati sanitary materials)
Trash!! otes: Potential tidal influ ction 5: Physical In e physical indicator INDICATOR Outfall Damage Deposits/Stains	adicators for Bots that are not rela	th Flowing a ted to flow p	and Non-Flowing Outfalls present? Yes No Spalling, Cracking or Chip Corrosion Oily Flow Line P	(If No, Skip to a DESCRIPTION pping Peeling Paint Other: Floatables Oil S	not obvious Section 6) Paint		possible suds or oil sheen) COMMENT	sheen, suds, or floati sanitary materials)

Section 1: Back	groun	ıd Data					
Subwatershed:					Outfall ID:	P1-02	
Today's date:		7 18	112		Time (Military):	0852 AL	
Investigators:		AL			Form completed by:	AR	
Temperature (°F):			Rainfa	all (in.): Last 24 hours: 0	Last 48 hours: 0		
Latitutde:		L	ongitude:		GPS Unit:	GPS LM	√IK #:
Camera: Nikon-					Photo #s: 3(e)	-	
Land Use in Draina	age Are	a (Check all that a	ρply):			1	
Industrial					Open Space		
Ultra-Urban Re	esidentia	al			☐ Institutional		
Suburban Resid	dential				Other:		
Commercial					Known Industries:		<u> </u>
Notes (e.g, origin	of outf	all, if known): larg	e crabs, Mir	nnows, vegetation along ca	anal is sparse, trash on si	de of canal, paper and plasti	ic.
•	1045		and I	Island Sizn"	DO NOT AM	char'l closes	to som
Section 2: Outfortion		scription MATER:		SHA	ıne	DIMENSIONS (IN	.) SUBMERGED
LUCATION	<u> </u>			 			
		,	CMP	Circular	Single	Diameter/Dimensions: √ 36!	In Water:
<u> </u>			HDPE	☐ Eliptical	Double		☐ Partially ☐ Fully
Closed Pipe		Steel		Box	∏ Triple		With Sediment:
		Other:		Other:	Other:		? ☐ No . ☐ Partially ☐ Fully
		☐ Concrete		·,			
		☐ Earthen		☐ Trapezoid		Depth:	
☐ Open drainage	•	☐ rip-rap		Parabolic		Top Width:	
		☐ Other:		Other:		Bottom Width:	
☐ In-Stream		(applicable whe	n collecting	; samples)		·!-	
Flow Present?		☐ Yes	□ No	If No, Ski	p to Section 5		
Flow Description (If present)		☐ Trickle	☐ Moderat	te 🗌 Substantial			
Section 3: Qua	ntitati	ive Characteri	zation				
				FIELD DATA FOR F	LOWING OUTFALLS		
P/	ARAMI	ETER		RESULT		JNIT	EQUIPMENT
ГПтэ <i>ш</i> э		Volume				Liter	
□Flow#I		Time to fill				Sec	
		Flow depth				In	
□Flow #2		Flow width	0,	"		Ft, In	
]	Measured length	<u>0</u> ,	22		Ft, In	
l		Time of travel		·····		Sec	
<u> </u>	Fempera	iture				°F	
	pН				pI	H Units	Test strip/Probe
	Ammo	nia				ppm	Test strip

Outfall Reconnaiss___e Inventory Form

INDICATOR	CHECK if Present		DESCRIPTIO	N		RE	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleu	m/gas	☐ 1 — Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	☐ 1 – Faint col sample bo		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 ~ Slight cl	oudiness	☐ 2 ~ Cloudy	3 – Opaque
Floatables	_	Sewage (To	oilet Paper, etc.) 🔲 Suds		☐ 1 – Few/slig	ht: origin	2 - Some; indications of origin (e.g.,	3 - Some; origin clear (e.g., obvious oil
-Does Not Include Trash!! otes: Potential tidal influ		Petroleum (not obvious		possible suds or oil sheen)	
Trash!! otes: Potential tidal influ	ence due to low tide	th Flowing an	d Non-Flowing Outfalls		not obvious		possible suds or oil	sheen, suds, or floatin sanitary materials)
Trash!! otes: Potential tidal influ ction 5: Physical In e physical indicator	ence due to low tide ndicators for Bot s that are not rela	th Flowing an ted to flow pre Present	d Non-Flowing Outfalls	(If No, Skip to	not obvious Section 6)		possible suds or oil sheen)	sheen, suds, or floating sanitary materials)
Trash!! otes: Potential tidal influ ction 5: Physical In e physical indicator INDICATOR	ence due to low tide idicators for Bots that are not rela CHECK if F	th Flowing an ted to flow pre Present	d Non-Flowing Outfalls esent? Yes No Spalling, Cracking or Chi Corrosion	(If No, Skip to	not obvious Section 6)	sediment	possible suds or oil sheen) COMMENT	sheen, suds, or floatin sanitary materials)
Trash!! otes: Potential tidal influ ction 5: Physical In e physical indicator INDICATOR Outfall Damage	ence due to low tide Indicators for Bot s that are not rela CHECK if I	th Flowing an ted to flow pre-	d Non-Flowing Outfalls esent? Yes No Spalling, Cracking or Chi Corrosion	O (If No, Skip to DESCRIPTION pping	not obvious Section 6)		possible suds or oil sheen) COMMENT	sheen, suds, or floating sanitary materials)
Trash!! otes: Potential tidal influ ction 5: Physical In e physical indicator INDICATOR Outfall Damage Deposits/Stains	ence due to low tide Idicators for Bots that are not rela CHECK if F	th Flowing an ted to flow present	d Non-Flowing Outfalls esent? Yes No	O (If No, Skip to DESCRIPTION pping Peeling Paint Other:	not obvious Section 6) Paint		possible suds or oil sheen) COMMENT	sheen, suds, or floatin sanitary materials)

Section 1: Back	groun	d Data		·				
Subwatershed:					Outfall ID:	P2-01		
Today's date:	~	118/12			Time (Military):	090	7	
Investigators:		Me			Form completed by:	R		
Temperature (°F):		<u> </u>	Rainfa	all (in.): Last 24 hours: 0	Last 48 hours: 0	,		
Latitutde:		Lo	ngitude:		GPS Unit:		GPS LMK#:	
Camera: Nikon-					Photo #s: 3(08		
Land Use in Drain	age Are	a (Check all that app	ply):					
Industrial					Open Space			
Ultra-Urban Re	esidenti	al			Institutional			
Suburban Resid	dential				Other:			
Commercial					Known Industries:			
Notes (e.g, origin A+ \n Section 2: Outf	and	near &	crabs, Min	nnows, vegetation along ca とこととかい	anal is sparse, trash on s	side of canal, paper	; "UZ	14 spay
LOCATION	ι	MATERIA	AL.	SHA	\PE	DIMENSIO	ONS (IN.)	SUBMERGED
		□ RCP	CMP	Circular	Single	Diameter/Dimen	sions:	In Water:
		□PVC □] HDPE	☐ Elîptical	Double	~[8,1)		☐ No ☐ Partially
Closed Pipe		☐ Steel		☐ Box	☐ Triple			Fully
		Other:		☐ Other:	☐ Other:		at	With Sediment:
							See.	7 Partially Fully
		☐ Concrete						
		☐ Earthen		☐ Trapezoid		Depth:		
☐ Open drainage	•	☐ rip-rap		☐ Parabolic		Top Width:	_	
				Other:		Bottom Width:		
□ .		Other:	11		·			
In-Stream Flow Present?		(applicable when			- 4- Cartan F			
Flow Description		□ res	ŻΛνο		p to Section 5			
(If present)		Trickle] Moderat	e Substantial				
Section 3: Ona	ntitati	ive Characteriz	ation					
				FIELD DATA FOR F	LOWING OUTFALL	5	·	
P/	ARAMI	ETER		RESULT		UNIT	E	QUIPMENT
[**]ra 41		Volume				Liter		
Flow #1		Time to fill				Sec		
		Flow depth				In		
☐Flow #2		Flow width	——	"		Ft, In		
]	Measured length	<u>0</u> '	"		Ft, In		
		Time of travel				Sec		
ļ	Tempera					°F		
	pH					oH Units	Te	st strip/Probe
	Ammo	nia				ppm		Test strip

Outfall Reconnais e Inventory Form

INDICATOR	CHECK if Present		DESCRIPTION	I		REI	ATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleur☐ Other:	n/gas	☐ 1 – Faint		2 – Easily detected	☐ 3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	1 – Faint cold sample bot		2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity			. See severity		1 – Slight clo	oudiness	2 - Cloudy	3 – Opaque
Floatables	_	Sewage (To	ilet Paper, etc.) 🔲 Suds		☐ 1 – Few/sligh	nt: origin	2 – Some; indications of origin (e.g.,	3 - Some; origin clear (e.g., obvious oil
-Does Not Include Trash!! tes: Potential tidal influenction 5: Physical In		Petroleum (d Non-Flowing Outfalls		not obvious		possible suds or oil sheen)	
Trash!! otes: Potential tidal influe	ence due to low tide	Petroleum (h Flowing and ted to flow pre	d Non-Flowing Outfalls		not obvious		possible suds or oil	sheen, suds, or floating sanitary materials)
Trash!! otes: Potential tidal influence ction 5: Physical In e physical indicators	ence due to low tide dicators for Bot s that are not rela	Petroleum (o	d Non-Flowing Outfalls	(If No, Skip to S	not obvious Section 6)		possible suds or oil sheen)	sheen, suds, or floating sanitary materials)
Trash!! otes: Potential tidal influence ction 5: Physical In e physical indicators INDICATOR	dicators for Bot that are not rela	h Flowing and ted to flow pre	d Non-Flowing Outfalls sent? Yes No Spalling, Cracking or Chip	(If No, Skip to S	not obvious Section 6)	sediment a	possible suds or oil sheen) COMMENT	sheen, suds, or floating sanitary materials)
Trash!! otes: Potential tidal influence ction 5: Physical Interphysical indicators INDICATOR Outfall Damage	dicators for Bot that are not rela	h Flowing and ted to flow pre	d Non-Flowing Outfalls sent? Yes No Spalling, Cracking or Chip	(If No, Skip to S DESCRIPTION sping	not obvious Section 6)		possible suds or oil sheen) COMMENT	sheen, suds, or floating sanitary materials)
Trash!! otes: Potential tidal influence ction 5: Physical In e physical indicators INDICATOR Outfall Damage Deposits/Stains	dicators for Bots that are not related CHECK if F	Petroleum (control of the property of the prop	d Non-Flowing Outfalls sent? Yes No Y	(If No, Skip to S DESCRIPTION pping □ Peeling P Paint □ Other: □ Floatables □ Oil Si	not obvious Section 6)		possible suds or oil sheen) COMMENT	sheen, suds, or floating sanitary materials)

Section 1: Backs	groun	d Data						
Subwatershed:					Outfall ID:	12-03	>	
Today's date:		7/8/1	し		Time (Military):	6920		
Investigators:		AR			Form completed b			
Temperature (°F):			Rainfa	all (in.): Last 24 hours: 0	Last 48 hours: 0	, ,		
Latitutde:			Longitude:		GPS Unit:		GPS LMK#:	
Camera: Nikon-					Photo #s: 36	9,370		
Land Use in Draina	age Are	a (Check all that	apply):			,		
Industrial					Open Space			
Ultra-Urban Re	sidenti	al			☐ Institutional			
Suburban Resid	lential				Other:			
☐ Commercial					Known Industries	s:		
Notes (e.g, origin			arge crabs, Mi	nnows, vegetation along c	anal is sparse, trash o	n side of canal, paper an	d plastic.	
LOCATION		MATE	RIAL	SH	APE	DIMENSION	is (IN.)	SUBMERGED
		□ RCP	Д СМР	☐ Circular	Single	Diameter/Dimensi	ons:	In Water:
		□ PVC	[☐ HDPE	☐ Eliptical	Double	18"		X No ☐ Partially ☐ Fully
Closed Pipe		☐ Steel		☐ Box	☐ Triple			With Sediment:
/		Other:		Other:	Other:			No Partially Fully
		☐ Concrete		- · ·	<u>I </u>			
.		☐ Earthen		Trapezoid		Depth:		
Open drainage	:	☐ rip-rap		☐ Parabolic		Top Width:		
		Other:		Other;	- "	Bottom Width:		
☐ In-Stream		(applicable wl	nen collecting	samples)		 		
Flow Present?		☐ Yes	X No		ip to Section 5		na nasan na mana makkan	<u> </u>
Flow Description (If present)		☐ Trickle	☐ Moderat					
Section 3: Quar	ntitati	ive Characte	rization					
	•			FIELD DATA FOR F	LOWING OUTFAL	LS		
P/	ARAMI	ETER		RESULT		UNIT	E	QUIPMENT
☐Flow#1		Volume				Liter		
		Time to fill				Sec		
		Flow depth				In		
□Flow #2		Flow width	<u>0</u> '	"		Ft, In		
]	Measured length	<u>0</u> '	"		Ft, In		
		Time of travel				Sec		
T	Cempera	ature				°F		
	pН	·····				pH Units	T	est strip/Probe
	Ammo	nia				ppm		Test strip

Outfall Reconnais ____ e Inventory Form

INDICATOR	CHECK if Present		DESCRIPTION	N		RE	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleu☐ Other:	m/gas	☐ 1 – Faint		2 – Easily detected	3 Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	1 – Faint col		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 — Slight cle	oudiness	2 - Cloudy	☐ 3 Opaque
Floatables		Sewage (Toilet Paper, etc.) 🔲 Suds		1 – Few/sligi	ht; origin	2 – Some; indications of origin (e.g.,	3 - Some; origin clear (e.g., obvious oil
-Does Not Include Trash!! otes: Potential tidal influence from 5: Physical Ir		Petroleun	· · · · · · · · · · · · · · · · · · ·	·	not obvious		possible suds or oil sheen)	
Trash!! otes: Potential tidal influence	ence due to low tide	h Flowing a	nd Non-Flowing Outfalls resent?	(If No, Skip to				sheen, suds, or floatin sanitary materials)
Trash!! otes: Potential tidal influence ction 5: Physical In e physical indicators	ence due to low tide dicators for Bot s that are not relat	h Flowing a	nd Non-Flowing Outfalls resent?	(If No, Skip to S	Section 6)		sheen)	sheen, suds, or floatin sanitary materials)
Trash!! otes: Potential tidal influence ction 5: Physical Interpretation indicators INDICATOR	ence due to low tide adicators for Bot s that are not relat CHECK if P	h Flowing a	nd Non-Flowing Outfalls resent? Yes No	(If No, Skip to a	Section 6)	sediment a	sheen) COMMENT	sheen, suds, or floatin sanitary materials)
Trash!! otes: Potential tidal influence ction 5: Physical Interpretation indicators INDICATOR Outfall Damage	ence due to low tide adicators for Bot s that are not relat CHECK if P	h Flowing a	nd Non-Flowing Outfalls resent? Yes No	(If No, Skip to a	Section 6)	sediment a	sheen) COMMENT	sheen, suds, or floatin sanitary materials)
Trash!! otes: Potential tidal influence of the physical indicators INDICATOR Outfall Damage Deposits/Stains	ence due to low tide dicators for Bot s that are not relat CHECK if P	h Flowing a	nd Non-Flowing Outfalls resent? Yes No Spalling, Cracking or Chi Corrosion Site Spalling Chies S	(If No, Skip to Specific Paint Other:	Section 6) Paint	sediment a	sheen) COMMENT	sheen, suds, or floatin sanitary materials)

Section 1: Back	groun	ıd Data	Alai tellitatea						
Subwatershed:						Outfall ID:	82-06		
Today's date:		7/18	5/12			Time (Military):	P2-060 0925		
Investigators:		A	<u> </u>			Form completed l			
Temperature (°F):		, ,		Rainfa	ll (in.): Last 24 hours: 0	Last 48 hours: 0	. ,		
Latitutde:			Longi	tude:		GPS Unit:		GPS LMK#	:
Camera: Nikon-						Photo #s: Z	572,37)	
Land Use in Drain	age Are	a (Check all th	at apply):			, ,,,		
(Industrial						Open Space			
Ultra-Urban Re	esidenti	aI				☐ Institutional			
Suburban Resi	dential					Other:			
☐ Commercial						- Known Industries	»:		
Notes (e.g, origin	of outf	fall, if known):	large cra	abs, Min	nows, vegetation along ca	nal is sparse, trash o	n side of canal, paper	r and plastic.	
Section 2: Outf		I .	ERIAL		SHA	 \PE	DIMENSI	ONS (IN.)	SUBMERGED
		RCP	χίc	MP	Circular	Single	Diameter/Dime		In Water:
		□PVC	ℓ	IDPE	Eliptical	Double	24"		I No
Closed Pipe		☐ Steel			Box	☐ Triple			Partially Fully
(Other:		-	☐ Other:	☐ Other:			With Sediment: No ☐ Partially ☐ Fully
		☐ Concrete	· · · · · · · · · · · · · · · · · · ·		☐ Trapezoid	**************************************	Donth		
janna		☐ Earthen					Depth:		
Open drainage	3	☐ rip-rap			Parabolic		Top Width:		
		Other:			Other:		Bottom Width:		
☐ In-Stream		(applicable	when col	lecting	samples)			·	
Flow Present?		☐ Yes		X)No	If No, Skij	o to Section 5		<u> </u>	
Flow Description (If present)		☐ Trickle	_ N	/oderate	e giron gara pagent en 1860-te tjeden enskenen i tera				
Section 3: Qua	ntitati	ive Charac	terizat	ion					
					FIELD DATA FOR FI	LOWING OUTFAL	LS		
P	ARAMI	ETER			RESULT		UNIT	E	QUIPMENT
		Volume					Liter		
□Flow#1		Time to fill					Sec		
		Flow depth			•		In		
		Flow width		<u>0</u> , ,	,,		Ft, In		
☐Flow #2	j	Measured leng	th	<u>o</u> , ,	,,		Ft, In		
		Time of trave	1				Sec		
	Гетрега	ature					°F		
	pН						pH Units	Т	est strip/Probe
	Ammo	nia					ppm		Test strip

Outfall Reconnais ____ ce Inventory Form

INDICATOR	CHECK if Present		DESCRIPTION		REL/	ATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ 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 i sample bottle	in	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	☐ 1 – Slight cloudi	iness	2 - Cloudy	3 – Opaque
Floatables		☐ Sewage (Toilet Paper, etc.) 🔲 Suds	☐ 1 – Few/slight; o	origin	2 – Some; indications of origin (e.g.,	3 - Some; origin clear
rash!! es: Potential tidal influe tion 5: Physical In physical indicators	dicators for Bot		and Non-Flowing Outfalls	not obvious ip to Section 6)		possible suds or oil sheen)	(e.g., obvious oil sheen, suds, or float sanitary materials)
Trash!! es: Potential tidal influe tion 5: Physical In	ence due to low tide	th Flowing a	and Non-Flowing Outfalls	not obvious		possible suds or oil	sheen, suds, or float sanitary materials)
Trash!! s: Potential tidal influe ion 5: Physical In physical indicators	adicators for Bots that are not relate	th Flowing a	and Non-Flowing Outfalls bresent? ☑ Yes ☐ No (If No, S DESCRIPTION	not obvious		possible suds or oil sheen)	sheen, suds, or floa sanitary materials)
Trash!! es: Potential tidal influe tion 5: Physical In physical indicators INDICATOR	adicators for Bots that are not related	th Flowing a ted to flow p	and Non-Flowing Outfalls aresent? Yes \(\text{No}\) No \(\text{If No, S}\) DESCRIPTION Spalling, Cracking or Chipping \(\text{Corrosion}\)	ip to Section 6)		possible suds or oil sheen) COMMENT	sheen, suds, or float sanitary materials)
Trash!! es: Potential tidal influe tion 5: Physical In physical indicators INDICATOR Outfall Damage	adicators for Bots that are not related CHECK if P	th Flowing a ted to flow p	and Non-Flowing Outfalls aresent? Yes \(\text{No}\) No \(\text{If No, S}\) DESCRIPTION Spalling, Cracking or Chipping \(\text{Corrosion}\)	not obvious ip to Section 6)		possible suds or oil sheen) COMMENT	sheen, suds, or float sanitary materials)
Trash!! es: Potential tidal influe tion 5: Physical In physical indicators INDICATOR Outfall Damage Deposits/Stains	ence due to low tide adicators for Bot s that are not relat CHECK if F	th Flowing a ted to flow p	and Non-Flowing Outfalls present? Yes No (If No, S) DESCRIPTION Spalling, Cracking or Chipping Corrosion Oily Flow Line Paint Ot Excessive Inhibited Odors Colors Floatables	ip to Section 6)		possible suds or oil sheen) COMMENT	sheen, suds, or floa sanitary materials)



Section 1: Back	ground	Data					ere i a committa con l'al		of the world of the party of the same of t	
Subwatershed:						Outfall I	D:	P2-11		
Today's date:		7 118	M			Time (N	lilitary):	0930		
Investigators:		A	·			Form co	mpleted by:	AC		
Temperature (°F):				Rainfal	ll (in.): Last 24 hours:	0 Last 48 l	ours: 0			
Latitutde:			Longit	ude:		GPS Un	it:		GPS LMK#	:
Camera: Nikon-						Photo #	: 37	3		
Land Use in Drain	age Area	(Check all the	at apply)							
Industrial						Oper	n Space			
Ultra-Urban Re	esidential					☐ Insti	tutional			
☐ Suburban Resi	dential					Other: _				
☐ Commercial						Known	Industries: _			
Section 2: Outf	all Des	cription			nows, vegetation along	· · · · · · · · · · · · · · · · · · ·				
LOCATION			ERIAL			HAPE		DIMENSIO	ONS (IN.)	SUBMERGED
		□ RCP	7 7 10	MP	Circular	Single		Diameter/Dimen	sions:	In Water:
		□ PVC	⊣н	DPE	☐ Eliptical	Double Double	3	244		Y3- ☐ No Y2 ☐ Partially Y2 ☐ Fully
Closed Pipe]	Steel			☐ Box	☐ Triple				
t :		Other:			☐ Other:	Other:				With Sediment:
										Partially Fully
		☐ Concrete						D- d		
_		Earthen			☐ Trapezoid			Depth;		
Open drainage	e	∏ rip-rap			Parabolic			Top Width:		
		Other:			☐ Other:			Bottom Width:		
☐ In-Stream		(applicable v	when col	lecting	samples)	<u> </u>		<u>. </u>		
Flow Present?		☐ Yes		√ No	·	kip to Section	ı 5			
Flow Description (If present)		☐ Trickle	□м	loderate	e ☐ Substantial					
Section 3: Qua	ntitativ	e Charact	erizati	on						
· •					FIELD DATA FOR	FLOWING	OUTFALLS	3		
P.	ARAMET	ΓER		40 to 1	RESULT			UNIT	E	QUIPMENT
Flow #1		Volume					<u></u>	Liter		
F11.10.4.4.1		Time to fill						Sec		
		Flow depth						In		
Flow #2		Flow width		<u>0</u> '	,	-		Ft, In		
	M	leasured leng	h	<u>0</u> '	17			Ft, In		
<u> </u>		Time of trave						Sec		
	Temperat	ure						°F		
	pН						I	H Units	7	est strip/Probe
1	Ammon	in					1	nnm	1	Tect strip

Outfall Reconnais ____ :e Inventory Form

INDICATOR	CHECK if Present		DESCRIPTION			RE	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleum☐ Other:	/gas	1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	☐ 1 – Faint cold sample bot		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 — Slight clo	oudiness	2 Cloudy	☐ 3 – Opaque
		Compac (T)					2 – Some; indications	3 - Some; origin clear
	ndicators for Bot	□ Petroleum	nd Non-Flowing Outfalls	!	1 – Few/sligh	nt; origin	of origin (e.g., possible suds or oil sheen)	(e.g., obvious oil sheen, suds, or floatin sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influ	ence due to low tide	Petroleum	(oil sheen)	(If No, Skip to	not obvious	nt; origin	possible suds or oil	sheen, suds, or floatin sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influence tion 5: Physical Include the physical indicator	ence due to low tide ndicators for Bot s that are not rela	Petroleum	(oil sheen)	ESCRIPTION	not obvious Section 6)	nt; origin	possible suds or oil sheen)	sheen, suds, or floatin sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influence tion 5: Physical Incrementation physical indicator INDICATOR	ence due to low tide ndicators for Bots that are not rela CHECK if F	Petroleum	(oil sheen)	PESCRIPTION ping	Section 6)	sediment :	possible suds or oil sheen) COMMENT	sheen, suds, or floatin sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influence tion 5: Physical Incephysical indicator INDICATOR Outfall Damage	ence due to low tide adicators for Bots that are not rela CHECK if I	th Flowing and ted to flow propresent	(oil sheen)	PESCRIPTION ping	not obvious Section 6)		possible suds or oil sheen) COMMENT	sheen, suds, or floatin sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influence: tion 5: Physical Incephysical indicator INDICATOR Outfall Damage Deposits/Stains	ence due to low tide adicators for Bots that are not rela CHECK if I	th Flowing and ted to flow present	oil sheen)	ping Peeling aint Other:	not obvious Section 6) Paint Paint Sheen		possible suds or oil sheen) COMMENT	sheen, suds, or floatin sanitary materials)

Section 1: Back	groun	d Data	TRUE Makes Value and the sale Ma				
Subwatershed:		1			Outfall ID:	P2-13	
Today's date:		7/18/12	_		Time (Military):	0935	
Investigators:		AR			Form completed by:	AR	
Temperature (°F):		<u> </u>	Rainfa	all (in.): Last 24 hours: 0	Last 48 hours: 0		
Latitutde:		Lo	ngitude:		GPS Unit:	GPS LMK #	:
Camera: Nikon-				-	Photo #s: 37	Ψ	
Land Use in Drain	age Are	a (Check all that ag	ply):	-		•	
Industrial					Open Space		
☐ Ultra-Urban Re	esidentia	al		•	☐ Institutional		
Suburban Resid	dential		•		Other:		
☐ Commercial		•			Known Industries:		
				nnows, vegetation along ca	anal is sparse, trash on s	ide of canal, paper and plastic.	
ection 2: Outf		scription MATERI		SHA		DIMENSIONS (IN.)	SUBMERGED
LOCATION		<u> </u>	У СМР	Çircular	Single	Diameter/Dimensions:	In Water:
			HDPE	☐ Eliptical	☐ Double	2411	No Partially Fully
51h: 15:							/3音Fully
Closed Pipe		☐ SteeI		□ Box	☐ Triple		With Sediment:
		Other:		Other:	Other:		No Partially
,		☐ Concrete					Li Puny
		☐ Earthen		☐ Trapezoid		Depth:	
Open drainage	;			☐ Parabolic		Top Width:	
		rip-rap		Other:		Bottom Width:	
	•	Other:					
☐ In-Stream		(applicable wher				and the state of t	
Flow Present?	·	☐ Yes	XQ No	If No, Ski	p to Section 5		makanan lati salah salah kija diga sebagai salah s
Flow Description (If present)		☐ Trickle	Moderat	te 🗌 Substantial -			
Section 3: Qua	ntitati	ive Characteri	zation				
				FIELD DATA FOR F	LOWING OUTFALLS	3	
p,	ARAMI	ETER		RESULT		UNIT	QUIPMENT
□Flow #1		Volume				Liter	
☐Flow #1		. Time to fill				Sec	
		Flow depth				In	
∐Flow #2		Flow width	0,	77		Ft, In	
□1 10 W πZ]	Measured length	0,	,,	·	Ft, In	
		Time of travel				Sec	
	Cempera	ature				°F	
	pН				P	H Units T	Cest strip/Probe
	Ammo	nia				ppm	Test strip

Outfall Reconnais _____ e Inventory Form

INDICATOR	CHECK if Present		DESCRIPTION	I		REL	ATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleur☐ Other:	n/gas	☐ 1 Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	□ Brown □ Gray □ Yellow □ 1 - Fair □ Orange □ Red □ Other: sample				2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 — Slight clo	udiness	2 – Cloudy	3 – Opaque
***		□ C++ (77					2 – Some; indications	3 - Some; origin clear
	ndicators for Bot	Petroleum	nd Non-Flowing Outfalls		1 - Few/slight not obvious	t; origin	of origin (e.g., possible suds or oil sheen)	(e.g., obvious oil sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influ	ence due to low tide	Petroleum	(oil sheen)		not obvious	t; origin	possible suds or oil	sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! es: Potential tidal influ tion 5: Physical Include physical indicator	ence due to low tide ndicators for Bot s that are not rela	Petroleum	(oil sheen)	(If No, Skip to	not obvious	t; origin	possible suds or oil sheen)	sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! es: Potential tidal influ tion 5: Physical In physical indicator INDICATOR	ence due to low tide ndicators for Bot s that are not rela CHECK if I	Petroleum th Flowing atted to flow present	(oil sheen)	(If No, Skip to DESCRIPTION pping □ Peelin	not obvious Section 6)		possible suds or oil sheen) COMMEN	sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influence: Physical Include the physical indicator INDICATOR Outfall Damage	ence due to low tide ndicators for Bot s that are not rela CHECK if I	Petroleum th Flowing atted to flow present	(oil sheen)	(If No, Skip to DESCRIPTION pping □ Peelin	not obvious Section 6)		possible suds or oil sheen) COMMEN	sheen, suds, or floating sanitary materials)
Deposits/Stains	ence due to low tide ndicators for Bot s that are not rela CHECK if I	Petroleum th Flowing atted to flow present	nd Non-Flowing Outfalls resent? Yes No Spalling, Cracking or Chip Corrosion	(If No, Skip to DESCRIPTION Oping □ Peelin Paint □ Other: 1	not obvious Section 6) g Paint Scracles Shell		possible suds or oil sheen) COMMEN	sheen, suds, or floating sanitary materials)

Section 1: Backs	round Data				
Subwatershed:			Outfall ID:	P302 / \$3-02-	2 (2411 OSFEII)
Today's date:	7/18/12		Time (Military):	0942 <u> </u>	
Investigators:	AL		Form completed by	: AR	
Temperature (°F):	·	Rainfall (in.): Last 24 hour	s: 0 Last 48 hours: 0	·	
Latitutde:	Long	itude:	GPS Unit:	GPS LMK	
Camera: Nikon-			Photo #s: 37	6,377 (hoth).	, 378 (29° us)
Land Use in Draina	ge Area (Check all that apply	<i>y</i>):	<i>J</i>	» P3-02	
Industrial			Open Space		
☐ Ultra-Urban Rea	sidential		☐ Institutional		
☐ Suburban Resid	ential		Other:		
☐ Commercial			Known Industries:		
	of outfall, if known): Jarge co	rabs. Minnows, vegetation alon		side of canal, paper and plastic.	
_		of from each		7.1 1	
V	on one vico	of from enough	other	and the state of t	
Section 2: Outfa	all Description			· · · · · · · · · · · · · · · · · · ·	
LOCATION	MATERIAL		SHAPE	DIMENSIONS (IN.)	SUBMERGED
	□ RCP □	CMP Circular	X Single	Diameter/Dimensions:	In Water:
	PVC D	HDPE	☐ Double	24"	Partially Fully
Closed Pipe	☐ SteeI	☐ Box	☐ Triple		
1	☐ Other:	Other:	☐ Other:		With Sediment:
					/□ Partially □ Fully
	☐ Concrete				
	☐ Earthen	☐ Trapezoid		Depth:	
🗌 Open drainage		Parabolic		Top Width:	
	☐ rip-rap	Other:	•	Bottom Width:	
	Other:				
☐ In-Stream	(applicable when co				
Flow Present?	☐ Yes	No If No.	Skip to Section 5		
Flow Description (If present)	☐ Trickle ☐	Moderate 🗌 Substantial	Vo		
Section 3: Quar	ntitative Characteriza	tion			
		FIELD DATA FO	R FLOWING OUTFALL	.S	
P#	RAMETER	RESULT		UNIT	EQUIPMENT
	Volume			Liter	
□Flow #1	Time to fill			Sec	
	Flow depth			In	
□Flow #2	Flow width	0, "		Ft, In	
1110W #Z	Measured length	0, "		Ft, In	
	Time of travel			Sec	
, 1	emperature			°F	
	рН			pH Units	Test strip/Probe
	Ammonia			ppm	Test strip

Outfall Reconnais _____ :e Inventory Form

INDICATOR	CHECK if Present		DESCRI	PTION		F	ELATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ P	etroleum/gas] 1 – Faint	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ C	-	-] 1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See se	erity		☐ 1 — Slight cloudiness	2 - Cloudy	☐ 3 – Opaque
Floatables	П	☐ Sewage (To	ilet Paper, etc.) 🔲 S	ıds] 1 Few/slight; origin	2 - Some; indications of origin (e.g.,	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating
-Does Not Include Trash!! otes: Potential tidal influ	ence due to low tide	Petroleum (oil sheen) C	ther:	nc	ot obvious	possible suds or oil sheen)	sanitary materials)
Trash!! otes: Potential tidal influ	ence due to low tide				nc	ot obvious		
Trash!!	ence due to low tide	h Flowing an	d Non-Flowing O	ıtfalls	No, Skip to Section			
Trash!! otes: Potential tidal influ	ence due to low tide	h Flowing and ted to flow pre	d Non-Flowing O	ıtfalls	No, Skip to Section			sanitary materials)
Trash!! otes: Potential tidal influ ection 5: Physical In re physical indicator	ence due to low tide adicators for Bot s that are not rela	h Flowing and ted to flow pre	d Non-Flowing O	utfails No (If. DESCRIPT or Chipping	No, Skip to Section TION Peeling Paint	n 6)	sheen)	sanitary materials)
Trash!! otes: Potential tidal influenction 5: Physical Interphysical indicator INDICATOR	ence due to low tide adicators for Bot s that are not rela	th Flowing and ted to flow pre	d Non-Flowing O	utfails No (If. DESCRIPT or Chipping	No, Skip to Section	n 6)	sheen)	sanitary materials)
Trash!! otes: Potential tidal influ ection 5: Physical In re physical indicator INDICATOR Outfall Damage	ence due to low tide adicators for Bot s that are not rela CHECK if F	th Flowing and ted to flow present	d Non-Flowing O sent? Yes Spalling, Cracking Corrosion	utfails No (If. DESCRIPT or Chipping	No, Skip to Section TION Peeling Paint	n 6)	sheen) COMMEN	sanitary materials)
Trash!! otes: Potential tidal influ ection 5: Physical In re physical indicator INDICATOR Outfall Damage Deposits/Stains	ence due to low tide adicators for Bot s that are not rela CHECK if F	th Flowing and ted to flow present	d Non-Flowing O sent? Yes Spalling, Cracking Corrosion Oily Flow Lin Excessive Inhi	ntfails No (If DESCRIPT or Chipping Paint Dited	No, Skip to Section TION Peeling Paint Other: Barrac	n 6)	sheen) COMMEN	sanitary materials)

RCP CMP Circular Single Diameter/Dimensions: In Water: 2 4	
Tremperature (*P): Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0	
Temperature (°F):	
Latitutde: Longitude: GPS Unit: GPS LMK #; Camera: Nikon- Photo #s: Land Use in Drainage Area (Check all that apply): Open Space	
Camera: Nikon- Land Use in Drainage Area (Check all that apply): Industrial	
Land Use in Drainage Area (Check all that apply): Industrial	
Open Space Ultra-Urban Residential Institutional Cher:	
Ultra-Urban Residential Distributional	
Suburban Residential	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. Notes (e.g., origin of outfall, is sparse, trash on side of canal, paper and plastic. Notes (e.g., origin of outfall, is sparse, trash on side of canal, paper and plastic. Notes (e.g., origin of outfall, pa	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. C NN (Concept Co	
ection 2: Outfall Description LOCATION MATERIAL SHAPE DIMENSIONS (IN.) SUBN RCP CMP Circular Single Diameter/Dimensions: In Water: 24	
LOCATION MATERIAL SHAPE DIMENSIONS (IN.) SUBM RCP CMP Circular Single Diameter/Dimensions: In Water; PVC HDPE Eliptical Double 2 1 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
LOCATION MATERIAL SHAPE DIMENSIONS (IN.) SUBM RCP CMP Circular Single Diameter/Dimensions: In Water; PVC HDPE Eliptical Double 2 1 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Pipe
LOCATION MATERIAL SHAPE DIMENSIONS (IN.) SUBM Single PVC HDPE Eliptical Double Steel Box Triple Other: Other: Other: Depth: For parabolic Parabolic Pound width: Flow Persent? Flow Persent? PVC HDPE Eliptical Double Double 244 Depth: Top Width: Top Width: Bottom Width: Bottom Width: Flow Persent? Yes No If No, Skip to Section 5 Flow Description (If present)	-
RCP CMP Circular Single Diameter/Dimensions: In Water: 27 4	MERGED
PVC	
Closed Pipe Steel	
Other: Other: Other: Other: With Sedi	Fully
Other: Ot	iment:
Concrete	No Partially
□ Open drainage □ Earthen □ rip-rap □ Other: □ Other: □ Bottom Width: □ Bottom Width: □ Complicable when collecting samples) □ In-Stream	Fully
☐ Copen drainage ☐ Earthen ☐ Parabolic ☐ Top Width: ☐ Dother: ☐ Other: ☐ Other: ☐ Other: ☐ How Present? ☐ No If No, Skip to Section 5 Flow Description (If present) ☐ Trickle ☐ Moderate ☐ Substantial Section 3: Quantitative Characterization ☐ Top Width: ☐ Top Width: ☐ Bottom Width: ☐	
☐ In-Stream (applicable when collecting samples) Flow Present? Flow Description (If present) Trickle ☐ Moderate ☐ Substantial Section 3: Quantitative Characterization Other: Bottom Width:	
Other: Other: Bottom Width: In-Stream (applicable when collecting samples) Flow Present? No If No, Skip to Section 5 Flow Description (If present) Trickle Moderate Substantial Section 3: Quantitative Characterization	
☐ In-Stream (applicable when collecting samples) Flow Present? ☐ No If No, Skip to Section 5 Flow Description (If present) ☐ Trickle ☐ Moderate ☐ Substantial Section 3: Quantitative Characterization	
Flow Present? No If No, Skip to Section 5 Flow Description (If present) Trickle Moderate Substantial Section 3: Quantitative Characterization	
Flow Description (If present) Trickle	
(If present) Substantial Section 3: Quantitative Characterization	
FIELD DATA FOR FLOWING OUTFALLS	
PARAMETER RESULT UNIT EQUIPMEN	
Volume Liter	iT
Flow #1 Sec Sec	i r
Flow depth In	iT
Flow #2 Flow width O' " Ft, In	ir
Measured length O' " Ft, In	IT .
Time of travel Sec	ir
Temperature °F	iT .
pH pH Units Test strip/Prol	

Ammonia

Test strip

ppm

INDICATOR	CHECK if Present		DESCRIPTIO	N		REI	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petrolet☐ Other:	ım/gas	☐ 1 — Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red				2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 – Slight clo	oudiness	2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include		· · ·	oilet Paper, etc.) Suds		1 – Few/sligh	ıt; origin	2 - Some; indications of origin (e.g., possible suds or oil	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating
Trash!! otes: Potential tidal influ	ence due to low tide	Petroleum	(oil sheen)	s	I HOU OU VIOUS		sheen)	sanitary materials)
Trash!! otes: Potential tidal influ	ence due to low tide	th Flowing an	nd Non-Flowing Outfall				sheen)	
Trash!! otes: Potential tidal influencetion 5: Physical Irre physical indicator.	ence due to low tide adicators for Bot s that are not relat	th Flowing an	nd Non-Flowing Outfall	O (If No, Skip to S DESCRIPTION	Section 6)			
Trash!! otes: Potential tidal influence ection 5: Physical Interphysical indicator INDICATOR	ence due to low tide adicators for Bot s that are not relat CHECK if F	th Flowing and ted to flow properties	nd Non-Flowing Outfall esent? Yes No	O (If No, Skip to S DESCRIPTION ipping	Section 6)	sediment a	COMMENT	
Trash!! otes: Potential tidal influence ection 5: Physical Interphysical indicator INDICATOR Outfall Damage	ence due to low tide adicators for Bot s that are not relat CHECK if F	th Flowing and ted to flow properties	nd Non-Flowing Outfall esent? Yes No Spalling, Cracking or Ch Corrosion	O (If No, Skip to S DESCRIPTION ipping	Section 6)	sediment a	COMMENT	
Trash!! fotes: Potential tidal influencetion 5: Physical Irre physical indicator. INDICATOR Outfall Damage Deposits/Stains	ence due to low tide adicators for Bot s that are not relat CHECK if F	th Flowing and ted to flow properties	nd Non-Flowing Outfall esent? Yes No Spalling, Cracking or Ch Corrosion Oily Flow Line	O (If No, Skip to S DESCRIPTION ipping Peeling I Paint Other:	Section 6) Paint	sediment a	COMMENT	

Section 1: Back	grour	ıd Data			. ,				
Subwatershed:					Outfall ID:	3-80/	C		
Today's date:		7/18/12			Time (Military):	0955			
Investigators:		AL			Form completed by:	M			
Temperature (°F):		·	Rainfa	all (in.): Last 24 hours: 0	Last 48 hours: 0				
Latitutde:		Long	itude:		GPS Unit: GPS LMK #:				
Camera: Nikon-					Photo #s: 38	56 -38	7		
Land Use in Drain	age Are	a (Check all that apply	/):						
Industrial					☐ Open Space				
🗋 Ultra-Urban R	esidenti	al			Institutional				
🗌 Suburban Resi	dential				Other:				
Commercial					Known Industries: _				
Notes (e.g, origin	of out	fall, if known): large cr	abs, Mir	nnows, vegetation along ca	anal is sparse, trash on s	ide of canal, paper	and plastic.		
Willy	Sv	mereld,	nla	sect+ partiall	ly visible	when we	ster In	wers	
Section 2: Outf	പ്പി നം	scription	onte	perticularly dat come	- of P3	Closest 7	n mad	don't de la company de la comp	
LOCATION		MATERIAL		SHA		DIMENSI		SUBMERGED	
		□ RCP	CMP	☐ Circular	Single	Diameter/Dimer	isions:	In Water:	
		PVC D	HDPE	☐ Eliptical	Double	367 ac	168 <u>5</u>	☐ No☐ Partially	
Closed Pipe		☐ Steel		ДВох	☐ Triple	Bepth w	Varia	Fully	
70 -		Other:		☐ Other:	☐ Other:	MAD IL	07/01-0(With Sediment:	
•			_					Partially Fully	
		☐ Concrete							
		☐ Earthen		☐ Trapezoid		Depth:			
Open drainage	e			☐ Parabolic		Top Width:	_		
		☐ rip-rap		☐ Other:		Bottom Width:			
		☐ Other:					·		
☐ In-Stream		(applicable when co				California in the second		 	
Flow Present?		☐ Yes	OVÂKŲ	If No, Ski	p to Section 5				
Flow Description (If present)		☐ Trickle ☐	Moderat	e 🔲 Substantial					
Section 3: Qua	ntitat	ive Characteriza	ion						
	•		·	FIELD DATA FOR F	LOWING OUTFALLS	5			
P.	ARAMI	ETER		RESULT		UNIT	E	QUIPMENT	
□Flow#1		Volume				Liter			
		Time to fill				Sec			
		Flow depth	ļ			In			
□Flow #2		Flow width	0,	***		Ft, In			
		Measured length	<u>0</u> '	***		Ft, In			
	<u> </u>	Time of travel				Sec			
	Tempera	ature				°F		et land	
	pН				I	oH Units	Te	st strip/Probe	
	Ammo	nia				ppm		Test strip	

INDICATOR	CHECK if Present		DESCRIPTIO	N		RE	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleu☐ Other:	m/gas	1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	□ Brown □ Gray □ Yellow □ 1 − For same □ Orange □ Red □ Other: same			lors in ottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 – Slight cl	loudiness	2 - Cloudy	☐ 3 – Opaque
Floatables		Sewage (1	Coilet Paper, etc.) Suds		☐ 1 – Few/slig	tht: origin	2 – Some; indications of origin (e.g.,	3 - Some; origin clear
-Does Not Include Trash!! otes: Potential tidal influe ction 5: Physical In	dicators for Bot	☐ Petroleum	(oil sheen)		not obvious		possible suds or oil sheen)	
-Does Not Include Trash!! otes: Potential tidal influe	nce due to low tide	Petroleum	(oil sheen)		not obvious	,,,,	possible suds or oil	sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! otes: Potential tidal influe ction 5: Physical In e physical indicators	nce due to low tide dicators for Bot that are not rela	Petroleum	(oil sheen)	(If No, Skip t	not obvious		possible suds or oil sheen)	sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! otes: Potential tidal influence ction 5: Physical In e physical indicators INDICATOR	dicators for Bot that are not rela	Petroleum th Flowing at ted to flow present	(oil sheen)	(If No, Skip t	not obvious o Section 6)	sediment:	possible suds or oil sheen) COMMENT	sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! otes: Potential tidal influe ction 5: Physical In e physical indicators INDICATOR Outfall Damage	dicators for Bot that are not rela	Petroleum th Flowing at ted to flow present	(oil sheen)	O (If No, Skip t DESCRIPTION pping	not obvious o Section 6)		possible suds or oil sheen) COMMENT	sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! otes: Potential tidal influe ction 5: Physical In e physical indicators INDICATOR Outfall Damage Deposits/Stains	dicators for Bot that are not rela	Petroleum th Flowing at ted to flow present	(oil sheen)	DESCRIPTION pping Peelin Paint Other:	o Section 6) g Paint		possible suds or oil sheen) COMMENT	sheen, suds, or floatin sanitary materials)

Section 1: Back	groun	d Data							
Subwatershed:					Outfall ID:	P15-01			
Today's date:	•	7 18 12			Time (Military):				
Investigators:		ÅL.			Form completed by:	105-			
Temperature (°F):			Rainfa	all (in.): Last 24 hours: 0	Last 48 hours: 0				
Latitutde:		Longi	ude:		GPS Unit: GPS LMK #:				
Camera: Nikon-			-,		Photo #s:	91			
^	age Are	a (Check all that apply):			•			
Industrial					Open Space				
Ultra-Urban Re	esidentia	al			☐ Institutional				
Suburban Resi	dential				Other:				
Commercial					Known Industries: _				
Notes (e.g, origin	of outf	all, if known): large cra	ıbs, Mir	nnows, vegetation along ca	anal is sparse, trash on s	ide of canal, paper and plastic.			
		Gachai	(8.3)	nside , look	4 Cloqued)_			
<u> </u>) '	, o (, or no				
Section 2: Outf		· · · · · · · · · · · · · · · · · · ·							
LOCATION	1	MATERIAL		SHA		DIMENSIONS (IN.)	SUBMERGED		
		□ RCP D		Circular	Single	Diameter/Dimensions:	In Water:		
		PVC DE	DPE	☐ Eliptical	☐ Double	0	☐ Partially ☐ Fully		
Closed Pipe		☐ Steel		☐ Box	☐ Triple		With Şegiment:		
		Other:		☐ Other:	☐ Other:		⊠No □ Partially		
							Fully		
	<u> </u>	☐ Concrete							
. <u></u>		☐ Earthen		Trapezoid		Depth:			
Open drainage	e	☐ rip-rap		Parabolic		Top Width:			
		☐ Other:		Other:		Bottom Width:			
☐ In-Stream		(applicable when co	lecting	samples)					
Flow Present?	· · · · · · · · · · · · · · · · · · ·	☐ Yes	ХVо	If No, Ski	p to Section 5				
Flow Description (If present)		☐ Trickle ☐ N	/ Ioderat	e 🗌 Substantial					
Section 3: Oua	ntitati	ive Characterizat	ion						
200000000000000000000000000000000000000				FIELD DATA FOR F	LOWING OUTFALLS	5	· · · · · · · · · · · · · · · · · · ·		
P.	ARAMI	ETER		RESULT		UNIT	EQUIPMENT		
		Volume				Liter			
∏Flow #1		Time to fill	<u></u>			Sec			
		Flow depth				In			
∐Flow #2		Flow width	Ō,	"		Ft, In			
LIFIOW #Z]	Measured length	Ω'	,,		Ft, In			
<u> </u>		Time of travel				Sec			
·	Tempera	ature				°F			
	pН	<u> </u>			I	oH Units	Test strip/Probe		
l	Ammo	nia				ppm	Test strip		

INDICATOR	CHECK if Present		DESCRIPTION	N		RE	ATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleu☐ Other:	m/gas	1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	1 – Faint col sample bo		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow	
Turbidity			See severity		☐ 1 Slight cl	oudiness	2 - Cloudy	3 – Opaque
Floatables	_	Sewage (Toilet Paper, etc.) 🔲 Suds		1 – Few/slig	ht: origin	2 - Some; indications of origin (e.g.,	3 - Some; origin clear (e.g., obvious oil
	dicators for Bot		nd Non-Flowing Outfalls		not obvious		possible suds or oil sheen)	
Trash!! tes: Potential tidal influ	ence due to low tide	h Flowing a	nd Non-Flowing Outfalls				possible suds or oil	sheen, suds, or floatin sanitary materials)
Trash!! tes: Potential tidal influction 5: Physical Inception 5: physical indicator	ence due to low tide adicators for Bot s that are not rela	h Flowing a	nd Non-Flowing Outfalls	(If No, Skip a			possible suds or oil sheen)	sheen, suds, or floatin sanitary materials)
Trash!! tes: Potential tidal influetion 5: Physical Interphysical indicator INDICATOR	adicators for Bots that are not rela	h Flowing a	nd Non-Flowing Outfalls resent? Yes Spalling, Cracking or Chi	(If No, Skip a	o Section 6)	sediment a	possible suds or oil sheen) COMMEN	sheen, suds, or floatin sanitary materials)
Trash!! tes: Potential tidal influence tion 5: Physical Interphysical indicator INDICATOR Outfall Damage	ence due to low tide adicators for Bot s that are not rela CHECK if F	h Flowing a	nd Non-Flowing Outfalls resent? Yes Spalling, Cracking or Chi	(If No, Skip and DESCRIPTION Peeling Peeling	o Section 6)		possible suds or oil sheen) COMMEN	sheen, suds, or floatin sanitary materials)
Trash!! tes: Potential tidal influence tion 5: Physical Interphysical indicator INDICATOR Outfall Damage Deposits/Stains	adicators for Bots that are not rela	h Flowing a	nd Non-Flowing Outfalls resent? Yes To	(If No, Skip and DESCRIPTION pping Peeling Paint Other:	o Section 6) g Paint		possible suds or oil sheen) COMMEN	sheen, suds, or floatin sanitary materials)

ection 1: Backs	groune	d Data		905-905-1-100-1-10-1-10-1-10-1-10-1-10-1	in the state of th					
Subwatershed:					Outfall ID:	744452-03				
Today's date:		7 18 12	_		Time (Military):	1001				
Investigators:		Aù			Form completed by:	AR				
Temperature (°F):		7/11	Rainf	all (in.): Last 24 hours: 0	Last 48 hours: 0	. ,				
Latitutde:			Longitude:		GPS Unit: GPS LMK #:					
Camera: Nikon-					Photo #s:	92				
Land Use in Draina	ige Area	(Check all that	t apply):							
Industrial					Open Space	w.				
t ☐ Ultra-Urban Re	sidentia	i			☐ Institutional					
Suburban Resid	lential				Other:	····· -				
☐ Commercial					Known Industries:					
Section 2: Outfa						de of canal, paper and plastic.				
LOCATION		MATE	RIAL	SHA	APE	DIMENSIONS (IN.)	SUBMERGED			
,		RCP	XIСМР	Circular	Single	Diameter/Dimensions:	In Water:			
		☐ PVC	☐ HDPE	☐ Eliptical	Double	18,1	Partially Fully			
Closed Pipe		☐ Steel		☐ Box	☐ Triple		With Sediment:			
(Other:	·····	Other:	Other:		No Partially Fully			
		☐ Concrete		☐ Trapezoid		Depth:				
m		☐ Earthen								
Open drainage	;	☐ rip-rap		Parabolic		Top Width:				
		Other:		Other:		Bottom Width:				
☐ In-Stream		(applicable w	hen collecting	z samples)						
Flow Present?		☐ Yes	MIN	o If No, Ski	p to Section 5		decidentation			
Flow Description (If present)		☐ Trickle	☐ Modera	te 🗌 Substantial	24 - 24 Tu - 34					
Section 3: Quar	ntitati	ve Characte	erization							
				FIELD DATA FOR F	LOWING OUTFALLS	}				
P/	ARAME	TER		RESULT		UNIT	EQUIPMENT			
	~	Volume				Liter				
∏Flow#1		Time to fill				Sec				
· · · · · · · · · · · · · · · · · · ·		Flow depth				In				
□		Flow width	0,	27		Ft, In				
∏Flow #2	I I	Measured length	<u>0</u> '	33		Ft, In				
		Time of travel				Sec				
,	Tempera	nture				°F				
	pН				p	H Units	Test strip/Probe			
	Ammo	nia				ppm	Test strip			

Outfall Reconnais ______ e Inventory Form

Section 4: Physical Indicates Any Physical Indicates Any Physical Indicates Any Physical Indicates Physical Physical Indicates Physical Physic				, Skip to Section	5)				
INDICATOR	CHECK if Present		DESCRIPTIO	N			RE	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petrole ☐ Other:	um/gas		☐ 1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:		☐ 1 — Faint cold sample bot		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity			☐ 1 — Slight clo	oudiness	2 - Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!			(Toilet Paper, etc.) Suds m (oil sheen) Other:			1 – Few/sligh	nt; 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 In Are physical indicator INDICATOR		ted to flow	and Non-Flowing Outfal present? Yes N		Skip to Sec	tion 6)	Ţ.	COMMENT	rs
Outfall Damage		TOOTE	Spalling, Cracking or Cl	•	Peeling Pain	t			
Deposits/Stains	7		☐ Oily ☐ Flow Line ☐	Paint 🔲	Other: Poc	nades/sh	()sedjment	and algae	
Abnormal Vegetation			☐ Excessive ☐ Inhibited		,	(
Poor pool quality			Odors Colors Suds Excessive	☐ Floatables Algae	☐ Oil Sheer ☐ Other:	n			
Pipe benthic growth			☐ Brown ☐ Orange	☐ Green	Other:				
Section 6: Overall O	_	*							
Unlikely [Potential (prese	nce of two	or more indicators)	Suspect (one	e or more ir	idicators with a	severity (of 3) Dovious	

Section 1: Back	groun	ıd Data					
Subwatershed:		1			Outfall ID:	P48 45 - E	24
Today's date:	7	18/12			Time (Military):	1105	
Investigators:		1 AL			Form completed by:		
Temperature (°F):			Rainfa	all (in.): Last 24 hours: 0	Last 48 hours: 0		
Latitutde:		Long	itude:		GPS Unit:	GPS LM	νικ #:
Camera: Nikon-					Photo #s: 3	13	
^	age Are	a (Check all that appl	y):				
Industrial				•	Open Space		
Ultra-Urban Re	esidentia	al	•		Institutional		
☐ Suburban Resid	dential				Other:		
☐ Commercial					Known Industries: _		
Notes (e.g, origin	of outf	all, if known): large c	rabs, Mir	nnows, vegetation along ca		ide of canal, paper and plasti	ic.
-				-	_		
		phone in the state of the state	<u> </u>		**************************************		28
Section 2: Outfa				T		T	
LOCATION	i .	MATERIAL		SHA		DIMENSIONS (IN	
		, ·	CMP	Circular	Single	Diameter/Dimensions:	In Water:
~ ^		1	HDPE	☐ Eliptical	☐ Double		Z Partially Fully
Closed Pipe	· -	☐ Steel		□ Вох	☐ Triple		With Sediment:
:		Other:	_	Other:	☐ Other:		XNo ☐ Partially
		☐ Concrete				-21.	
		☐ Earthen		☐ Trapezoid		Depth:	
Open drainage	÷	☐ rip-rap		Parabolic		Top Width:	
		☐ Other:		☐ Other:		Bottom Width:	
☐ In-Stream		(applicable when co	ollecting	samples)			
Flow Present?		☐ Yes	ATNº	<u> </u>	p to Section 5		
Flow Description (If present)			Moderat				
Section 3: Oua	ntitati	ive Characteriza	tion				
				FIELD DATA FOR FI	LOWING OUTFALLS		(**** - ** - **************************
P/	ARAME	ETER	T	RESULT		UNIT	EQUIPMENT
F**1500		Volume	1			Liter	
Flow#1		Time to fill				Sec	
		Flow depth				In	
□Flow #2		Flow width	<u> </u>	17		Ft, In	······································
	11	Measured length	<u>0</u> ,	,,		Ft, In	
<u> </u>		Time of travel				Sec	
<u>{</u>	Tempera					°F	
	pH				F	oH Units	Test strip/Probe
	Ammo	nia				ppm	Test strip

INDICATOR	CHECK if Present		DESCRIPTION	I		RE	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage	☐ Rancid/sour ☐ Petroleur☐ Other:	n/gas	☐ 1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	1 – Faint colesample bot		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 — Slight clo	oudiness	2 – Cloudy	☐ 3 – Opaque
Floatables		□ Sewage (*	Toilet Paper, etc.) Suds		☐ 1 – Few/sligi	hte aniain	2 – Some; indications	3 - Some; origin clear
-Does Not Include Trash!! tes: Potential tidal influe tion 5: Physical In	idicators for Bot	Petroleun	n (oil sheen)		not obvious	nt, origin	of origin (e.g., possible suds or oil sheen)	(e.g., obvious oil sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influ	ence due to low tide	☐ Petroleun	and Non-Flowing Outfalls bresent? Yes No		not obvious	nt, origin	possible suds or oil	sheen, suds, or floatin sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influ tion 5: Physical Include physical indicator	ence due to low tide ndicators for Bot s that are not rela	☐ Petroleun	and Non-Flowing Outfalls bresent? Yes No	(If No, Skip t DESCRIPTION	not obvious	nt, origin	possible suds or oil sheen)	sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influe tion 5: Physical Inc. physical indicator INDICATOR	ndicators for Bots that are not rela	☐ Petroleun	and Non-Flowing Outfalls bresent? Yes No Spalling, Cracking or Chip Corrosion	(If No, Skip t DESCRIPTION	not obvious o Section 6)	sediment	possible suds or oil sheen) COMMENT	sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influ tion 5: Physical In physical indicator INDICATOR Outfall Damage	ence due to low tide ndicators for Bots that are not rela CHECK if I	☐ Petroleun	and Non-Flowing Outfalls bresent? Yes No Spalling, Cracking or Chip Corrosion	(If No, Skip to DESCRIPTION Description Description	not obvious o Section 6)		possible suds or oil sheen) COMMENT	sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influ tion 5: Physical In physical indicator INDICATOR Outfall Damage Deposits/Stains	ence due to low tide Indicators for Bot is that are not rela CHECK if I	☐ Petroleun	and Non-Flowing Outfalls resent? Yes No Spalling, Cracking or Chip Corrosion Oily Flow Line	(If No, Skip to DESCRIPTION Deping Peeling Paint Other:	not obvious o Section 6) g Paint		possible suds or oil sheen) COMMENT	sheen, suds, or floating sanitary materials)

ection 1: Back	groun	d Data			And the second s		
Subwatershed:			1		Outfall ID:	P49 45 - 02	
Today's date:		7	18/1	2	Time (Military):	liko	
Investigators:		AR	 -	***************************************	Form completed by:	AL.	
Temperature (°F):			Rainfa	ll (in.): Last 24 hours: 0	Last 48 hours: 0		
Latitutde:		L	ongitude:		GPS Unit:	GPS LMK #	! :
Camera: Nikon-					Photo #s: 39	1	
_	age Are	a (Check all that a	pply):				
Industrial			_		Open Space		
Ultra-Urban R€	esidentia	al			☐ Institutional		
Suburban Resid	dential				Other:		
☐ Commercial					Known Industries: _		
ection 2: Outf						de of canal, paper and plastic.	
LOCATION	l	MATER	EAL		APE	DIMENSIONS (IN.)	SUBMERGED
		□ RCP]	X CMP	Zircular Circular	Single	Diameter/Dimensions:	In Water:
		□ PVC	HDPE	☐ Eliptical	☐ Double	36"	Partially
Closed Pipe		☐ Steel		☐ Box	☐ Triple		Fully
		 		☐ Other:	☐ Other:		With Sediment:
							☐ Partially ☐ Fully
		☐ Concrete			<u> </u>		
		Earthen		☐ Trapezoid		Depth:	
☐ Open drainage	•	☐ rip-rap		Parabolic		Top Width:	
		☐ Other:		☐ Other:		Bottom Width:	
☐ In-Stream		(applicable whe	n collecting	comples)			
Flow Present?		☐ Yes	\Z\N∘		ip to Section 5		
Flow Description (If present)			☐ Moderat				
Section 3: Oua	ntitati	ive Characteri	zation				
			······································	FIELD DATA FOR F	LOWING OUTFALLS		
P/	ARAMI	ETER		RESULT		UNIT	EQUIPMENT
		Volume				Liter	
☐Flow#i		Time to fill				Sec	·
		Flow depth				In	
□ pio #0		Flow width	<u>0</u> '	>>		Ft, In	
□Flow #2		Measured length	<u>0</u> '	"		Ft, In	
		Time of travel				Sec	
1	Fempera	nture				°F	
рН			р	H Units	Test strip/Probe		
		nia	1			ppm	Test strip

INDICATOR	CHECK if Present	\ .	DES	CRIPTION			REL	ATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour [☐ Other:	☐ Petroleum/	gas	☐ 1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	_	☐ Gray ☐ Red	☐ Yellow ☐Other:	1 - Faint colors in sample bottle		2 Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity			See	e severity		☐ 1 ~ Slight clo	udiness	2 - Cloudy	☐ 3 – Opaque
Floatables -Does Not Include		Sewage (T	• • • •	☐ Suds		☐ 1 — Few/sligh	☐ 2 - Some; indications of origin (e.g.,		3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Trash!!	•	—						Sileony	Samitary materials)
Trash!! [otes: Potential tidal influ	ence due to low tide				<u></u>			Silectly	Surrency muoraus)
otes: Potential tidal influence ction 5: Physical In re physical indicator	ndicators for Bot s that are not rela	ed to flow pr		s 🗌 No	(If No, Skip to S	ection 6)	T	;	
fotes: Potential tidal influ	ndicators for Bot	red to flow pr	resent? Ye	s 🗌 No	(If No, Skip to S	ection 6)		COMMENT	
otes: Potential tidal influence ction 5: Physical In re physical indicator	ndicators for Bot s that are not rela	red to flow pr		es No	ESCRIPTION	•		;	
fotes: Potential tidal influence ection 5: Physical In re physical indicator INDICATOR	adicators for Bot s that are not relat CHECK if F	red to flow pr	resent? Ye	es No DE	ESCRIPTION ing Peeling P	•	sediment a	COMMENT	
fotes: Potential tidal influenction 5: Physical Interphysical indicator INDICATOR Outfall Damage	ndicators for Bot s that are not relat CHECK IF F	red to flow pr	resent? Ye Spalling, Crack Corrosion Oily Flow	es No DE	ESCRIPTION ing Peeling P	•	sediment a	COMMENT	
fotes: Potential tidal influenction 5: Physical Introduce of the physical indicator INDICATOR Outfall Damage Deposits/Stains	ndicators for Bot s that are not relat CHECK IF F	resent	resent? Ye Spalling, Crack Corrosion Oily Flow Excessive	DE No DE king or Chippi Line Pa Inhibited	ing Peeling Pe	únt	sediment a	COMMENT	
fotes: Potential tidal influenction 5: Physical Introduce indicator INDICATOR Outfall Damage Deposits/Stains Abnormal Vegetation	chicators for Bots that are not related to the chick if F	resent	Spalling, Crack Corrosion Oily Flow Excessive Odors Suds	king or Chippi Line Par Inhibited Colors Excessive Alg	ing Peeling Pe	únt	sediment a	COMMENT	

Section 1: Back	groun	d Data						
Subwatershed:				5. A. S.	Outfall ID:	8	P44 45 -0	\
Today's date:			18	<u>(1, </u>	Time (Milita	ary):	1115	
Investigators:			A	1	Form compl	eted by:	AR_	
Temperature (°F):	· .		-	ıll (in.): Last 24 hours: 0	Last 48 hour	s: 0		
Latitutde:		Longit	ude:		GPS Unit:	<u>مر</u>	GPS LMK	#:
Camera: Nikon-		. · · · · · · · · · · · · · · · · · · ·	- • •		Photo #s:	395		
Land Use in Drain	age Are	a (Check all that apply)	:					
Industrial	· •				Open Sp	ace		
Ultra-Urban Re	esidentia	al	٠.		☐ Institution	onal .		
Suburban Resid	dential				Other:			
Commercial					Known Indi	ıstries:		
Section 2: Outf				CU	ADE		DIMENSIONS (IN)	SUBMERGED
LOCATION	<u> </u>	MATERIAL			APE		DIMENSIONS (IN.)	
		□RCP DAC		☐ Circular ☐ Eliptical	Single Double		iameter/Dimensions:	In Water: No Partially
Closed Pipe		☐ Steel		☐ Box	☐ Triple			☐ Fully
:		Other:	-	Other:	Other:			With Sediment: No □ Partially □ Fully
		Concrete	· · · · ·	☐ Trapezoid	<u> </u>		Depth:	
Open drainage		☐ Earthen		Parabolic			Top Width:	
☐ Open dramage	:	☐ rip-rap					_	
		Other:		Other:		l E	Bottom Width:	
☐ In-Stream		(applicable when col	lecting	samples)		,		
Flow Present?		☐ Yes	Z No	If No, Ski	ip to Section 5			
Flow Description (If present)	1	☐ Trickle ☐ M	Toderat	e 🗌 Substantial				
Section 3: Qua	ntitati	ive Characterizati	on					
				FIELD DATA FOR F	LOWING OU	TFALLS		
p,	ARAM	ETER		RESULT		UN	IT	EQUIPMENT
□Flow#1		Volume				Lit	ter	
Eltiom #1		Time to fill				Se	ec	
		Flow depth				Iı	n	
☐Flow #2	ļ	Flow width	<u> </u>			Ft,	In	
		Measured length	<u>0</u> '	"		Ft,		
l		Time of travel				Se		
<u> </u>	Гептрега	·					F	
	pH					pН (Jnits	Test strip/Probe
1	Ammo	nia			1	pp	om .	Test strip

INDICATOR	CHECK if Present		DESCRIPTIO	N		RE	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleu☐ Other:	nm/gas	☐ 1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	☐ 1 — Faint colc sample bott		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 – Slight clo	udiness	2 - Cloudy	3 – Opaque
Floatables		☐ Sewage (1	Foilet Paper, etc.) ☐ Suds		1 Familials	t: origin	2 – Some; indications	3 - Some; origin clear
-Does Not Include Trash!! tes: Potential tidal influe ction 5: Physical In	dicators for Bot	Petroleum	n (oil sheen)		1 - Few/sligh not obvious	· ·	of origin (e.g., possible suds or oil sheen)	(e.g., obvious oil sheen, suds, or floatin sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influe	nce due to low tide	Petroleum	n (oil sheen)		not obvious	t, ongm	possible suds or oil	sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! otes: Potential tidal influe ction 5: Physical In e physical indicators	dicators for Bot	Petroleum	n (oil sheen)	O (If No, Skip to DESCRIPTION	not obvious Section 6)	, ongm	possible suds or oil sheen)	sheen, suds, or floatin sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influe ction 5: Physical In e physical indicators INDICATOR	dicators for Bot that are not related	Petroleum	n (oil sheen)	O (If No, Skip to DESCRIPTION	not obvious Section 6)	sediment	possible suds or oil sheen) COMMEN	sheen, suds, or floatin sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influe ction 5: Physical In e physical indicators INDICATOR Outfall Damage	dicators for Bot that are not related CHECK if F	Petroleum	n (oil sheen)	DESCRIPTION ipping Peeling	not obvious Section 6)		possible suds or oil sheen) COMMEN	sheen, suds, or floatin sanitary materials)
-Does Not Include Trash!! otes: Potential tidal influe ction 5: Physical In e physical indicators INDICATOR Outfall Damage Deposits/Stains	dicators for Bot that are not related CHECK if F	Petroleum	n (oil sheen)	DESCRIPTION ipping Peeling Paint Other:	not obvious Section 6) Paint Sheen		possible suds or oil sheen) COMMEN	sheen, suds, or floatir sanitary materials)

Section 1: Back	kgroun	d Data					
Subwatershed:		1 . 5			Outfall ID:	PSIA-01 1833	
yday's date:		7 17 12			Time (Military):	1833	
Investigators:	1	Term.			Form completed by	" AP.	
Temperature (°F):	:		Rainfa	all (in.): Last 24 hours: 0	Last 48 hours: 0		
Latitutde:			Longitude:		GPS Unit:	GPS LMK	#:
Camera: Nikon-					Photo #s:		
Land Use in Drain	nage Are	a (Check all that	apply);				
🗖 Industrial					Open Space		
🔲 Ultra-Urban R	esidentia	al			☐ Institutional	-	
Suburban Resi	idential				Other:		
☐ Commercial					Known Industries:		
Notes (e.g, origin	n of outf	all, if known): la	rge crabs, Mi	nnows, vegetation along ca	nal is sparse, trash on	side of canal, paper and plastic.	
				320			
			i Iterita	pa.			
ection 2: Out		_		1			
LOCATION	N	MATE		SHA		DIMENSIONS (IN.)	SUBMERGED
		RCP	⊠ CMP	"	Single	Diameter/Dimensions:	In Water:
•		□ PVC	HDPE	☐ Eliptical	☐ Double	-30,	Partially ☐ Fully
Closed Pipe		☐ Steel		Box	☐ Triple		With Sediment:
,		Other:		☐ Other:	Other:		No Partially
3							☐ Partially ☐ Fully
		☐ Concrete		<u></u>			
		☐ Earthen		☐ Trapezoid		Depth:	
Open drainage	e	☐ rip-rap		☐ Parabolic		Top Width:	
		☐ Other:		☐ Other:		Bottom Width:	
☐ In-Stream		(applicable wh		samples)			
Flow Present?		☐ Yes	X No	_	to Section 5		
Flow Description							
(If present)		Trickle	☐ Moderate	e Substantial			
Section 3: Qua	ntitati	ve Charactei	rization				
				FIELD DATA FOR FL	OWING OUTFALL	S	
P	ARAME	TER		RESULT		UNIT	QUIPMENT
DEI#1		Volume		•		Liter	
☐Flow #1		Time to fill				Sec	
-		Flow depth				In	
□Flow #2		Flow width	Ō,	"		Ft, In	
LITIOW #2	N	Aeasured length	0,	"		Ft, In	
^-		Time of travel				Sec	
r Y	Tempera	ture				°F	
	pН					pH Units 7	est strip/Probe
	Ammor	nia				ppm	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?
Yes □No (If No, Skip to Section 5) **CHECK if INDICATOR** DESCRIPTION **RELATIVE SEVERITY INDEX (1-3)** Present ☐ Rancid/sour ☐ Petroleum/gas □ Sewage 3 - Noticeable from a ☐ 1 — Faint Odor ☐ 2 – Easily detected distance Sulfide Other: ☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ 1 - Faint colors in 2 - Clearly visible in ☐ 3 – Clearly visible in Color outfall flow sample bottle sample bottle ☐ Green ☐ Orange Red Other: ☐ 1 – Slight cloudiness 2 - Cloudy ☐ 3 – Opaque Turbidity See severity ☐ 2 - Some; indications 3 - Some; origin clear Floatables ☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ 1 - Few/slight; origin of origin (e.g., (e.g., obvious oil -Does Not Include not obvious possible suds or oil sheen, suds, or floating Petroleum (oil sheen) Other: Trash!! sanitary materials) sheen) Notes: Potential tidal influence due to low tide 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) INDICATOR **CHECK if Present DESCRIPTION COMMENTS** Spalling, Cracking or Chipping Peeling Paint Outfall Damage Corrosion 又 DOther: Jech ☐ Flow Line ☐ Paint sediment and algae ins.de Oily Deposits/Stains Abnormal Vegetation ☐ Excessive ☐ Inhibited Oil Sheen ☐ Odors ☐ Colors ☐ Floatables Poor pool quality Suds ☐ Excessive Algae Other: Pipe benthic growth □ Brown ☐ Orange ☐ Green Other: Section 6: Overall Outfall Characterization Potential (presence of two or more indicators) Suspect (one or more indicators with a severity of 3) Obvious Unlikely

Section 1: Background Data

Subwatershed:					Outfall ID:	PS1 4-02	-	!
Today's date:	40	12			Time (Military):	0854		
Investigators:	和上				Form completed l	by: 42_		
Temperature (°F):		Rainf	all (in.): Last 24	1 hours: 0	Last 48 hours: 0			
Latitutde:		Longitude:			GPS Unit:		GPS LMK#	:
Camera: Nikon-					Photo #s:			
Land Use in Drain	age Area (Check all	that apply):			 · ·			
, Industrial					Open Space			
Ultra-Urban R	esidential				☐ Institutional			
Suburban Resi	dential				Other:		.	
Commercial					Known Industries	s:		
Notes (e.g, origin						n side of canal, paper		
	*	hada #	m	150	der in oid	le pipe -	-42 h	<i>₽</i> ~°
Section 2: Outf	all Description							
LOCATION		ATERIAL		SHA	PE	DIMENSIO	ONS (IN.)	SUBMERGED
	☐ RCP	CMP	Circular	•	Single	Diameter/Dimen	sions:	In Water:
	□ PVC	☐ HDPE	Eliptical	4	◯ Double	18"		▼ No □ Partially
Closed Pipe	☐ Steel	_	Box	İ	 ☐ Triple			Fully
Closed Tipe					-			With Sediment:
`	Utner;	· · · · · · · · · · · · · · · · · · ·	Other:	_	Other:			☐ No ☐ Partially ☐ Fully
	Concre	te	,	1				
<u></u>	☐ Earther	1	Trapezoid			Depth:		
Open drainage	e ☐ rip-rap		☐ Parabolic			Top Width:	_	
	Other:		Other:	_		Bottom Width:		
In-Stream		e when collecting	comples)					
Flow Present?	☐ Yes	No.		f No. Skin	to Section 5			
Flow Description (If present)	 	· · · · · · · · · · · · · · · · · · ·			to betton 5		<u></u>	
Section 3: Qua	ntitative Chara	cterization						
			FIELD DATA	FOR FL	OWING OUTFAL	LS		
P	ARAMETER		RESUI	LT		UNIT	E	QUIPMENT
□Flow#1	Volume					Liter		
	Time to fil	ii ·			:	Sec		· · ·
	Flow depti	h				In		
□Flow #2	Flow widt	" <u>\\</u>	72			Ft, In		
_	Measured ler		**			Ft, In		
	Time of trav	vel				Sec		
·	remperature					°F		
	pН					pH Units	Те	est strip/Probe
	Ammonia					p p m		Test strip

INDICATOR	CHECK if Present		DESCRIPTION	N .		REI	ATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleum	m/gas	☐ 1 — Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	☐ 1 – Faint co		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 – Slight cl	Ioudiness	2 – Cloudy	☐ 3 – Opaque
							2 – Some; indications	3 - Some; origin clear
Floatables -Does Not Include Trash!! tes: Potential tidal influence tion 5: Physical Include physical indicators	dicators for Bot	☐ Petroleum	nd Non-Flowing Outfalls		not obvious I - Few/slig not obvious	ght; origin	of origin (e.g., possible suds or oil sheen)	(e.g., obvious oil
-Does Not Include Trash!! tes: Potential tidal influence tion 5: Physical In	ence due to low tide	Petroleum	n (oil sheen)		not obvious	ght; origin	possible suds or oil	(e.g., obvious oil sheen, suds, or floati sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influence tion 5: Physical Include physical indicator	ence due to low tide adicators for Bot s that are not rela	Petroleum	n (oil sheen)	(If No, Skip to S	not obvious ection 6)	ght; origin	possible suds or oil sheen)	(e.g., obvious oil sheen, suds, or floati sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influence tion 5: Physical Include physical indicator INDICATOR	adicators for Bots that are not rela	Petroleum	n (oil sheen)	(If No, Skip to S DESCRIPTION pping Peeling P	not obvious ection 6)	sediment)	possible suds or oil sheen) COMMENT	(e.g., obvious oil sheen, suds, or floati sanitary materials)
tes: Potential tidal influences: Potential tidal influences: Physical Inc. physical indicator: INDICATOR Outfall Damage	ence due to low tide Adicators for Bot S that are not rela CHECK if F	Petroleum	n (oil sheen)	(If No, Skip to S DESCRIPTION pping Peeling P	not obvious ection 6)		possible suds or oil sheen) COMMENT	(e.g., obvious oil sheen, suds, or floati sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influence tion 5: Physical Include physical indicators INDICATOR Outfall Damage Deposits/Stains	ence due to low tide Adicators for Bot S that are not rela CHECK if F	Petroleum	nd Non-Flowing Outfalls resent? Yes No Spalling, Cracking or Chi Corrosion	(If No, Skip to S DESCRIPTION pping □ Peeling P Paint □ Other: □ Floatables □ Oil Sh	ection 6)		possible suds or oil sheen) COMMENT	(e.g., obvious oil sheen, suds, or float sanitary materials)

Section 1: Back	kgroui	ıd Data							
Subwatershed:				·	Outfall	ID: V	51A-03		
Today's date:		7/17/12			Time (N	Military):	0000		
Investigators:		九			Form co	ompleted by:	N2		
Temperature (°F):			Rainf	fall (in.): Last 24 hours: (0 Last 48	hours: 0			
Latitutde:		Lon	gitude:		GPS Ur	nit:		GPS LMK#	
Camera: Nikon-					Photo #	s:			
Land Use in Drain	nage Are	ea (Check all that app	ly):						
Industrial					□Оре	n Space			
Ultra-Urban R	esidenti	al			Insti	itutional			
Suburban Resi	idential				Other:		· · · · · · · · · · · · · · · · · · ·		
Commercial					Known	Industries:			
	(hol	10 32%		nnows, vegetation along co			de of canal, paper a	and plastic.	
LOCATION	٧	MATERIA			APE		DIMENSIO	NS (IN.)	SUBMERGED
Closed Pipe			CMP HDPE —	Circular Eliptical Box Other:	Single Double Triple Other:	•	Diameter/Dimen		In Water: No Partially Fully With Sediment: No Partially Fully
☐ Open drainag	e	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:			Depth: Top Width: Bottom Width:		
☐ In-Stream		(applicable when c	ollecting	samples)	***************************************				
Flow Present?		☐ Yes	No	If No, Ski	p to Section	. <u>5</u>		4-41	
Flow Description (If present)		☐ Trickle ☐	Moderat	te 🔲 Substantial					
Section 3: Qua	ntitati	ive Characteriza	tion	FIELD DATA FOR F	OWING				
p	ARAME		Т	RESULT	LOHIII-C		JNIT	E	QUIPMENT
		Volume					Liter		ÁOI LAIEM!
∏Flow#1		Time to fill	+-				Sec		
		Flow depth	+				In		
		Flow width	<u>0</u> '	77		3	Ft, In		
□Flow #2	1	Measured length	+	32			Ft, In		
	-	Time of travel	†				Sec		
`	L Tempera	iture	+				°F		
	pH		+	THE WALLES		, pF	I Units	Te	est strip/Probe
	Ammo						nom		Test strip

INDICATOR	CHECK if Present		DESCRIPTION	N		REI	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage	☐ Rancid/sour ☐ Petroleum	m/gas	☐ 1 – Faint		2 Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	☐ 1 – Faint cold sample bot		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 — Slight clo	oudiness	2 – Cloudy	☐ 3 – Opaque
Floatables		Sewage (7	Foilet Paper, etc.) Suds		☐ 1 – Few/sligh	ht; origin	2 – Some; indications of origin (e.g.,	3 - Some; origin clear (e.g., obvious oil
	dicators for Bot		nd Non-Flowing Qutfalls		not obvious		possible suds or oil sheen)	sheen, suds, or floatin sanitary materials)
Trash!! otes: Potential tidal influe	ence due to low tide	th Flowing a	nd Non-Flowing Qutfalls		not obvious		· •	
Trash!! otes: Potential tidal influence ction 5: Physical In e physical indicators	adicators for Bot s that are not relate	th Flowing a	nd Non-Flowing Qutfalls	(If No, Skip to	not obvious Section 6)		sheen)	sanitary materials)
Trash!! otes: Potential tidal influence ction 5: Physical In e physical indicators INDICATOR	ence due to low tide dicators for Bot s that are not relat CHECK if F	th Flowing a ted to flow pr Present	nd Non-Flowing Qutfalls resent?	O (If No, Skip to DESCRIPTION ipping	not obvious Section 6)	sediment a	sheen) COMMENT	sanitary materials)
Trash!! otes: Potential tidal influence ction 5: Physical Interphysical indicators INDICATOR Outfall Damage	ence due to low tide dicators for Bot s that are not relat CHECK if F	th Flowing a ted to flow pr Present	nd Non-Flowing Outfalls resent? Yes No Spalling, Cracking or Chi Corrosion	O (If No, Skip to DESCRIPTION ipping	not obvious Section 6)	sediment a	sheen) COMMENT	sanitary materials)
Trash!! otes: Potential tidal influences: Physical Interpretation of the physical indicators INDICATOR Outfall Damage Deposits/Stains	ence due to low tide adicators for Bot s that are not relat CHECK IF F	th Flowing a ted to flow pr Present	nd Non-Flowing Qutfalls resent?	DESCRIPTION ipping Peeling Paint Other:	Section 6) Paint	sediment a	sheen) COMMENT	sanitary materials)

Section 1: Back	groun	id Data			O (CILID)	C-1.17 ×	•	<u> </u>
Subwatershed:					Outfall ID:	95113-0	<u>'</u>	
Today's date:		1/11/12			Time (Military):	170PO		
Investigators:		A-2	Tasinf	t tt Carlo Track OA housen C	Form completed by Last 48 hours: 0	y: /2 .		<u> </u>
Temperature (°F): Latitutde:		Tono		fall (in.); Last 24 hours; 0			CDC LAW #	
Camera: Nikon-		Long	;itude:		GPS Unit:		GPS LMK#	:
•	Tage Ar	ea (Check all that apply			Photo #s:			
Industrial	ago / no	at (Chook an that apply	<i>(</i>)-		Con Spage			
Ultra-Urban Re	- aldanti	:_1			☐ Open Space			
_		aı			☐ Institutional	•		
Suburban Resid	dential				Other:			
Commercial					Known Industries:			
Notes (e.g, origin				nnows, vegetation along ca				£1.
		insto 325	-54	le Gernades	Misde j	ire first	<u>2-3</u>	· · · · · · · · · · · · · · · · · · ·
Section 2: Outf								
LOCATION	ત	MATERIAL		SHA	APE	DIMENSIO	NS (IN.)	SUBMERGED
		1	СМР	Circular	Single	Diameter/Dimens	sions:	In Water:
	l	□ PVC □ I	HDPE	☐ Eliptical	☐ Double	12"		No Partially
Closed Pipe	I	☐ Steel		☐ Box	Triple			☐ Fully
• /	I	Other:	_	☐ Other:	Other:			With Sediment:
	1		_					Partially Fully
		Concrete		1				
		Earthen		☐ Trapezoid		Depth:		
Open drainage	3	☐ rip-rap		Parabolic		Top Width:	_	
		Other:		☐ Other:		Bottom Width: _		
☐ In-Stream		(applicable when co	llecting	complet)				
Flow Present?			No		p to Section 5			
Flow Description					710 DELIION D			
(If present)		☐ Trickle ☐ N	Moderate	e 🗍 Substantial				
Section 3: Qua	ntitati	ive Characterizat	ion					
				FIELD DATA FOR FL	LOWING OUTFALL	S		
P/	ARAME	ETER		RESULT		UNIT	E	QUIPMENT
□Flow#1		Volume				Liter		
[][10w]		Time to fill				Sec		
	<u> </u>	Flow depth	<u> </u>			In		
□Flow #2	<u> </u>	Flow width	<u> </u>	"		Ft, In		
_		Measured length	0,	***		Ft, In		
<u> </u>	·	Time of travel	 			Sec		
<u>1</u>	Tempera		 			°F		
	рН				1	pH Units	Te	est strip/Probe
i	Ammor	nia				ppm		Test strip

INDICATOR	CHECK if Present		DESCRIPTIO	N		RE	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage	☐ Rancid/sour ☐ Petrolet	um/gas	☐ I — Faint		2 - Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	1 – Faint col		2 – Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbidity			See severity		☐ 1 – Slight cl	oudiness	2 - Cloudy	3 – Opaque
Floatables		Sewage (7	Foilet Paper, etc.) Suds		1 – Few/slig	ht; origin	2 – Some; indications of origin (e.g., possible suds or oil	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating
-Does Not Include Trash!! otes: Potential tidal influ	ence due to low tide	Petroleum			not cornous		sheen)	sanitary materials)
Trash!!	ence due to low tide	th Flowing at	nd Non-Flowing Outfall				1 *	sanitary materials)
Trash!! lotes: Potential tidal influe cetion 5: Physical In re physical indicator	ence due to low tide ndicators for Bot s that are not relat	th Flowing at	nd Non-Flowing Outfall	o (If No, Skip t DESCRIPTION			sheen)	sanitary materials)
Trash!! lotes: Potential tidal influ ection 5: Physical In re physical indicator INDICATOR	ndicators for Bots that are not related	th Flowing at ted to flow propert	nd Non-Flowing Outfall resent? Yes No	O (If No, Skip t DESCRIPTION ipping	o Section 6) g Paint	sediment	sheen) COMMENT	sanitary materials)
Trash!! lotes: Potential tidal influencetion 5: Physical Intre-physical indicator INDICATOR Outfall Damage	ence due to low tide ndicators for Bot s that are not relat CHECK if F	th Flowing at ted to flow propert	nd Non-Flowing Outfall resent? Yes No	O (If No, Skip t DESCRIPTION ipping	o Section 6)	sediment	sheen) COMMENT	sanitary materials)
Trash!! lotes: Potential tidal influencetion 5: Physical Intrephysical indicator INDICATOR Outfall Damage Deposits/Stains	ndicators for Bots that are not related CHECK if F	th Flowing at ted to flow propert	nd Non-Flowing Outfall resent? Yes No	DESCRIPTION ipping Peelin Paint Other:	g Paint Francisco I Sheen	sediment	sheen) COMMENT	sanitary materials)

Section 1: Bacl	kgroui	nd Data							
Subwatershed:					Outfall I	D: {	51 B-08	Z	
Today's date:		7/12/12			Time (M		ક્લાંટ		
Investigators:		YV_			Form co	mpleted by:	HZ.		
Temperature (°F):	:		Rainf	all (in.): Last 24 hours: 0	Last 48 h	ours: 0			
Latitutde:		L	ongitude:		GPS Un	it:		GPS LMK#	:
Camera: Nikon-					Photo #s	s:	· i		
	nage Are	ea (Check all that a	pply):						
Industrial					☐ Oper	Space			
Ultra-Urban R	lesidenti	al			☐ Instit	tutional			
Suburban Resi	idential				Other: _				
Commercial					Known	Industries:	÷		
Notes (e.g, origin	n of out	fall, if known): larg	ge crabs, Mi	nnows, vegetation along ca	anal is spars	e, trash on si	de of canal, paper	and plastic.	
Robs 3	7.3								
Section 2: Out				1			1		1
LOCATION	N	MATER			APE		DIMENSI		SUBMERGED
		· · · · · · · · · · · · · · · · · · ·	CMP	Circular	∑ Single		Diameter/Dimer	sions:	In Water: No
		□ PVC	HDPE	☐ Eliptical	Double		<u> </u>		Partially Fully
Closed Pipe		☐ Steel		☐ Box	☐ Triple				With Sediment:
`		Other:		Other:	Other:				No
/									Partially Fully
•		☐ Concrete							
_		☐ Earthen		☐ Trapezoid			Depth:		
Open drainage	e	☐ rip-rap		☐ Parabolic			Top Width:	_	
		☐ Other:		Other:			Bottom Width:		
☐ In-Stream		(applicable when	n collecting	samples)					
Flow Present?		☐ Yes	∑ (No		p to Section	5			
Flow Description (If present)		☐ Trickle	☐ Moderat						
	_4'4-4	CI		··········					····
Section 3: Qua	mutau	ive Characteri	zauon	FIELD DATA FOR FI	OWING	NITEALLE			
p	ARAMI	ETED		RESULT			INIT	E	NITOMENT
		Volume		RESOLI			Liter	E	QUIPMENT
□Flow#1		Time to fill					Sec		
		Flow depth					In		
		Flow width	<u>0</u> ,	33			₹t, In		
☐Flow #2		Measured length	<u>O</u> '	13			t, In		
		Time of travel		- 10-2020 A			Sec		
,	Tempera	nture					°F		
	pН			•. •		pł	I Units	Te	st strip/Probe
	Ammo	nia					maa		Test strip

INDICATOR	CHECK if Present		DESCRIPTION	N		REI	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleu☐ Other:	m/gas	1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	☐ 1 – Faint co sample bo		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 – Slight cl	loudiness	2 Cloudy	☐ 3 – Opaque
Floatables		☐ Sewage (7	Toilet Paper, etc.) Suds		☐ 1 – Few/slig	tht; origin	2 – Some; indications of origin (e.g.,	3 - Some; origin clear (e.g., obvious oil
	dicators for Bot		nd Non-Flowing Outfall		not obvious		possible suds or oil sheen)	
Trash!! tes: Potential tidal influ	ence due to low tide	th Flowing at	nd Non-Flowing Outfall		not obvious		possible suds or oil	sheen, suds, or floatin sanitary materials)
Trash!! tes: Potential tidal influence ction 5: Physical Ir e physical indicator	ence due to low tide adicators for Bot s that are not rela	th Flowing a ted to flow pr	nd Non-Flowing Outfall	(If No, Skip to	not obvious Section 6)		possible suds or oil sheen)	sheen, suds, or floatin sanitary materials)
Trash!! tes: Potential tidal influence ction 5: Physical Ir c physical indicator INDICATOR	ence due to low tide adicators for Bot s that are not rela CHECK if I	th Flowing a ted to flow pr Present	nd Non-Flowing Outfall resent?	DESCRIPTION ipping	not obvious Section 6)	sediment a	possible suds or oil sheen) COMMENT	sheen, suds, or floatin sanitary materials)
Trash!! tes: Potential tidal influence ction 5: Physical Ince physical indicator INDICATOR Outfall Damage	ence due to low tide adicators for Bot s that are not rela CHECK if i	th Flowing a ted to flow pr Present	nd Non-Flowing Outfalls resent?	DESCRIPTION ipping	not obvious Section 6) Paint		possible suds or oil sheen) COMMENT	sheen, suds, or floatin sanitary materials)
Trash!! tes: Potential tidal influence ction 5: Physical Ir e physical indicator INDICATOR Outfall Damage Deposits/Stains	ence due to low tide dicators for Bot s that are not rela CHECK if i	th Flowing a ted to flow pr Present	nd Non-Flowing Outfalls resent? Yes No Spalling, Cracking or Chi Corrosion Oily Flow Line	DESCRIPTION ipping Peeling Paint Other:	Section 6) Paint Sheen		possible suds or oil sheen) COMMENT	sheen, suds, or floatin sanitary materials)

Section 1: Back	groui	ia Data						
Subwatershed:					Outfall ID:	P5112-1	53	
Today's date:		7 1712			Time (Military)			
Investigators:		in_			Form completed			
Temperature (°F):		,	Rainf	all (in.): Last 24 hours: 0	Last 48 hours: 0	<u>,</u>		
Latitutde:		Lo	ngitude:		GPS Unit:		GPS LMK#	
Camera: Nikon-					Photo #s:			
Land Use in Drain	age Are	ea (Check all that ap	ply):					
Industrial					Open Space			
Ultra-Urban R	esidenti	ai			☐ Institutional			
☐ Suburban Resi	dential				Other:			
☐ Commercial					Known Industri	es:		
				nnows, vegetation along ca		/ `	and plastic.	
井331-	- 2,	35 ,	Wall	er inside pi	16 - 10	wen		
		,	<u> </u>					
Section 2: Outf		MATERIA	ΔΙ	SHA	\PF	DIMENSIO	NS (TN.)	SUBMERGED
			CMP	10.	Single	Diameter/Dimen		In Water:
		/	HDPE	T Eliptical	☐ Double	1811	_	No Partially
Closed Pipe		Steel	_ 11D1	Box	☐ Triple	-		Fully
7 Closed Tipe		Other:		☐ Other:	☐ Other:			With Sediment:
, 1		Oulci		Other.				Partially Fully
		☐ Concrete						L Fully
		Earthen		☐ Trapezoid		Depth:		
Open drainage	e			☐ Parabolic	•	Top Width:	_	
		∏ rip-rap		☐ Other:		Bottom Width: _		
		Other:			····	<u> </u>		
☐ In-Stream		(applicable when						
Flow Present?		☐ Yes-	No) If No, Skip	o to Section 5	······································		
Flow Description (If present)		☐ Trickle [Modera	te Substantial				
Section 3: Qua	ntitat	ive Characteriz	ation					
·		·		FIELD DATA FOR FI	OWING OUTFA	LLS		
P	ARAMI	ETER		RESULT		UNIT	E	QUIPMENT
□Flow#1		Volume				Liter		
		Time to fill				Sec		
!		Flow depth				In		
□Flow #2		Flow width		,,		Ft, In		
	1	Measured length	<u>0</u> '	"		Ft, In .		
	<u></u>	Time of travel				Sec		
	Tempera			· ·		°F		
	pН					pH Units	Те	est strip/Probe
I	Ammo	กท่อ	į.			nom		Test strip

INDICATOR	CHECK if Present		DESCRIPTION	N		REI	LATIVE SEVERITY INDEX	(1-3)
Odor		1	☐ Rancid/sour ☐ Petroleu ☐ Other:	m/gas	☐ 1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		1	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	☐ 1 – Faint cold sample bot		2 - Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 - Slight clo	oudiness	2 – Cloudy	☐ 3 – Opaque
Floatables		☐ Sewage (Toil	Iet Paper, etc.) Suds			at: origin	2 - Some; indications	3 - Some; origin clear
	dicators for Bot		oil sheen)		not obvious	it, ongm	of origin (e.g., possible suds or oil sheen)	(e.g., obvious oil sheen, suds, or floating sanitary materials)
Trash!! otes: Potential tidal influ	ence due to low tide	th Flowing and	oil sheen)		not obvious		possible suds or oil	sheen, suds, or floating sanitary materials)
Trash!! otes: Potential tidal influence ction 5: Physical In e physical indicators	ence due to low tide adicators for Bot s that are not rela	th Flowing and	oil sheen)	(If No, Skip to S	not obvious		possible suds or oil sheen)	sheen, suds, or floating sanitary materials)
Trash!! otes: Potential tidal influence ction 5: Physical Interpretation e physical indicators INDICATOR	ence due to low tide adicators for Bot s that are not rela	th Flowing and ted to flow pres Present	oil sheen)	O (If No, Skip to S DESCRIPTION pping	not obvious		possible suds or oil sheen) COMMENT	sheen, suds, or floating sanitary materials)
Trash!! otes: Potential tidal influence ction 5: Physical Interpretation: INDICATOR Outfall Damage	adicators for Bots that are not related CHECK if F	th Flowing and ted to flow pres	Other: I Non-Flowing Outfallsent? Yes No	O (If No, Skip to S DESCRIPTION pping	not obvious		possible suds or oil sheen) COMMENT	sheen, suds, or floating sanitary materials)
Trash!! otes: Potential tidal influence ction 5: Physical Interpretation e physical indicators INDICATOR Outfall Damage Deposits/Stains	adicators for Bots that are not related CHECK if F	th Flowing and ted to flow pres	A Non-Flowing Outfalls sent? Yes No Spalling, Cracking or Child Corrosion	DESCRIPTION pping Peeling F Paint Other: T	not obvious Section 6) Faint Across Le S		possible suds or oil sheen) COMMENT	sheen, suds, or floating sanitary materials)

Section 1: Back	grour	ıd Data						
Subwatershed:					Outfall ID:	P51(-0	>1	
Today's date:		1/10/15	<u></u>		Time (Military	0935		
Investigators:		NL.			Form complete	ed by: Az,		
Temperature (°F):			Rai	nfall (in.): Last 24 hours: (Last 48 hours:	0 '		
Latitutde:			Longitude:		GPS Unit:		GPS LMK#	:
Camera: Nikon-					Photo #s:			
Land Use in Drain	age Are	a (Check all tha	t apply):					
☐ Industrial					Open Spac	e		
Ultra-Urban R	esidenti	al			☐ Institutiona	ıI		
Suburban Resi	dential				Other:			
☐ Commercial					Known Indust	ries:		
H334	•		arge craos, r	Ainnows, vegetation along c	anar is sparse, trasi	i on side of Canai, paper	and plastic.	
LOCATION	4	MATE	RIAL	SH	APE	DIMENSIO	NS (IN.)	SUBMERGED
Closed Pipe	è	□ RCP □ PVC □ Steel □ Other: □ Concrete □ Earthen □ rip-rap □ Other:		☐ Box ☐ Other: ☐ Trapezoid ☐ Parabolic ☐ Other:	Single Double Triple Other:	Depth: Top Width: Bottom Width:		In Water: No Partially Fully With Sediment: Partially Partially Fully
☐ In-Stream		(applicable w						
Flow Present? Flow Description (If present)		☐ Yes	☐ Mode		ip to Section 5			
Section 3: Qua	ntitati	ive Characte	erization	FIELD DATA FOR F	LOWING OUTF	ALLS		
P	ARAMI	TER	1	RESULT		UNIT	E	QUIPMENT
		Volume				Liter		-
∏Flow #1		Time to fill		·· · · · · · · · · · · · · · · · · · ·		Sec		
		Flow depth				In		
		Flow width	<u>0</u> '	17	- "	Ft, In		
□Flow #2	1	Measured length		77		Ft, In		
		Time of travel				Sec		
	rempera	iture			•	°F		
	pН					pH Units	Te	est strip/Probe
	Ammo			****		ppm		Test strip

INDICATOR	CHECK if Present		DESCRIF	PTION		REI	ATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Pe	troleum/gas	1 – Faint		2 – Easily detected	3 - Noticeable from a distance
Color		☐ Clear☐ Green	☐ Brown ☐ Gr	•	☐ 1 – Faint col sample bo		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See seve	erity	☐ 1 - Slight cl	oudiness	2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!		☐ Sewage (T	Foilet Paper, etc.) Su		1 – Few/slig	ht; 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)
		I						
Notes: Potential tidal influe	ence due to low tide						<u> </u>	-
ection 5: Physical In	adicators for Bot	ted to flow pr		utfalls ∐ No (If No, Skip to	Section 6)		COMMENT	•
ection 5: Physical In	dicators for Bot	resent		utfalls No (If No, Skip to DESCRIPTION			COMMENT	s
ection 5: Physical In re physical indicators INDICATOR	adicators for Bot s that are not relat CHECK if P	resent	resent? Yes	utfalls No (If No, Skip to DESCRIPTION or Chipping Peeling	; Paint	sediment a		S
ection 5: Physical In re physical indicators INDICATOR Outfall Damage	adicators for Bot s that are not relat CHECK if P	resent	resent? Yes Spalling, Cracking Corrosion	utfalls No (If No, Skip to DESCRIPTION or Chipping Peeling Paint Chipter:		sediment a		TS .
ection 5: Physical In re physical indicators INDICATOR Outfall Damage Deposits/Stains	edicators for Bot is that are not relat CHECK if P	resent	Yes Yes Yes	ntfalls No (If No, Skip to DESCRIPTION or Chipping Peeling Paint Chipping	Paint Styracle 5	sediment a		S

Subwatershed:	groui	ia Data			0.645	12		
`		#1 \ - \ \ \			Outfall ID:	PSIC-	<u>. 52. </u>	VII. 10 10 10 10 10 10 10 10 10 10 10 10 10
Today's date:		1/2/1	<u>L</u>		Time (Military):		57	
Investigators:		/R		infall (in.): Last 24 hours: 0	Form completed t	oy:		
Temperature (°F): Latitutde:		 -	Longitude:		T	Γ,	CDC 13 (17 II	
Camera: Nikon-			Longitude		GPS Unit:		GP\$ LMK #:	· · · · · · · · · · · · · · · · · · ·
Land Use in Drain	oge Ar	a (Check all the	nt apply).		Photo #s:			
☐ Industrial	ago An	za (Check all th	ас арргуу.					
_					Open Space			
Ultra-Urban R		al			☐ Institutional			
Suburban Resi	dential				Other:			
☐ Commercial					Known Industries	:		**
. 1		fall, if known): l		Minnows, vegetation along ca		n side of canal, paper ar	nd plastic.	
43	37	```	Ton	, NO oda	^			
Section 2: Outf	all De	ecrintion						
LOCATION		T •	ERIAL	SHA	\PE	DIMENSION	NS (IN.)	SUBMERGED
		□ RCP	СМР	Circular	Single	Diameter/Dimensi		In Water;
		□ PVC	<i>i</i> □ HDPE		☐ Double	121		N ,No ∰ Partially
Closed Pipe		☐ Steel		Box	☐ Triple		***************************************	Fully
Crosed Tipe					-			With Sediment:
•		Other:		Other:	Other:			✓ No ☐ Partially
								Fully
		Concrete		☐ Trapezoid		Depth:		
☐ Open drainage		☐ Earthen		☐ Parabolic		Top Width:		
] — -r		□ гір-гар		☐ Other:		Bottom Width:		
		Other:		Curer.		Bottom width:		
☐ In-Stream		(applicable w	hen collecti	ng samples)				
Flow Present?		Yes		No <i>If No, Skip</i>	to Section 5			
Flow Description (If present)		✓ ☐ Trickle	☐ Mode	rate				
Section 3: Quar	ntitati	ive Characte	erization					
				FIELD DATA FOR FL	OWING OUTFAL	LS		
P/	ARAMI	ETER		RESULT		UNIT	EC	QUIPMENT
□Flow#1		Volume		~ 1-L gal /N	rig	Liter		
□I 10W #1		Time to fill				Sec		
		Flow depth	_			In		
□Flow #2		Flow width	0,	33		Ft, In		
	Î	Measured length	1 <u>0</u> ,	12		Ft, In		
I		Time of travel	_	A		Sec		
1	empera			fimiliant Ten	~0	°F		
	pН					pH Units	Те	st strip/Probe
	Ammo	nia				ppm		Test strip

INDICATOR	CHECK if Present		DESCRIPTION			REI	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage	☐ Rancid/sour ☐ Petroleum ☐ Other:	OVDL	☐ 1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color	X.	Clear Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	☐ 1 – Faint cold sample bott		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ I — Slight clo	udiness	2 – Cloudy	3 – Opaque
Floatables		☐ Sewage (Foilet Paper, etc.) Suds		☐ 1 – Few/sligh	ıt: origin	2 – Some; indications of origin (e.g.,	3 - Some; origin clear (e.g., obvious oil
-Does Not Include Trash!! tes: Potential tidal influention 5: Physical In	dicators for Bo	☐ Petroleum	n (oil sheen)	(If No. Skip to S	not obvious		possible suds or oil sheen)	
-Does Not Include Trash!! tes: Potential tidal influe	nce due to low tide	□ Petroleum	n (oil sheen)	(If No, Skip to S ESCRIPTION	not obvious		possible suds or oil	sheen, suds, or floati sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influe tion 5: Physical In physical indicators	dicators for Bost that are not rela	□ Petroleum	n (oil sheen)	ESCRIPTION	not obvious		possible suds or oil sheen)	sheen, suds, or floati sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influence etion 5: Physical Incorphysical indicators INDICATOR	dicators for Bost that are not rela	☐ Petroleum	n (oil sheen)	ESCRIPTION sing	not obvious ection 6)	sediment a	possible suds or oil sheen) COMMENT	sheen, suds, or floati sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influence etion 5: Physical Incorphysical indicators INDICATOR Outfall Damage	dicators for Bost that are not rela	th Flowing a ted to flow p	n (oil sheen)	ESCRIPTION bing	not obvious ection 6)		possible suds or oil sheen) COMMENT	sheen, suds, or floati sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influe tion 5: Physical In physical indicators INDICATOR Outfall Damage Deposits/Stains	dicators for Bost that are not rela	th Flowing a ted to flow p	nd Non-Flowing Outfalls resent? Yes No Spalling, Cracking or Chip Corrosion Oily Flow Line P	escription oing Peeling P aint Other:	not obvious		possible suds or oil sheen) COMMENT	sheen, suds, or floati sanitary materials)

Subwatershed:	sgroun	iu Data			 .	Outfall I	D:	<i>(2)</i> = -1, <i>c</i>	07	
/Today's date:		7/17				Time (M	·	0980 1		
Investigators:		111.	12			<u> </u>	mpleted by:	<u> </u>		
Temperature (°F):				Rainfa	ll (in.): Last 24 hours: 0				<u> </u>	
Latitutde:			Longitu		ii (iii.). Last 24 nouts. c	GPS Uni			GPS LMK #	
Camera: Nikon-			Longiti			Photo #s			OF S LIVIN #	· · · · · · · · · · · · · · · · · · ·
Land Use in Drain	nage Are	a (Check all th	at apply):			1 11010 112	•			
☐ Industrial	Ū	·	11 37			☐ Oper	Space			
☐ Ultra-Urban R	esidenti	al				☐ Instit	-			
Suburban Resi	idential					Other: _				
☐ Commercial						Known I	ndustries:			
l k					nows, vegetation along ca				and plastic.	
平 3	797		<u>leal</u>	Kin	s Woder	ine	New	Sol		
Section 2: Out	fall De	J				1		•		
LOCATION	V	MAT	ERIAL		SHA	APE		DIMENSIO	NS (IN.)	SUBMERGED
		RCP	CN CN	ИP	Circular	Single		Diameter/Dimen	sions:	In Water:
		□ PVC	_ HI	OPE	☐ Eliptical	Double		411		No Partially
Closed Pipe		☐ Steel			Вох	☐ Triple				☐ Fully
, , , ,		Other:			Other:	Other:				With Sediment:
, 										∏ Partially ∏ Fully
		Concrete			☐ Trapezoid			Depth:		
☐ Open drainag	P	☐ Earthen			☐ Parabolic			Top Width:		
— v Fran	-	☐ rip-rap			Other:			Bottom Width:		
		Other:						Bottom Widai.		
☐ In-Stream		(applicable v			samples)		-			
Flow Present?		☐ Yes		Νo	If No, Ski	o to Section	5			
Flow Description (If present)		Trickle	□ḿ	oderate	☐ Substantial					
Section 3: Qua	ntitati	ve Charact	erizatio	n			í			
					FIELD DATA FOR F	LOWING (UTFALLS			
P.	ARAME	TER			RESULT		ι	INIT	EC	QUIPMENT
∏Flow#I	<u> </u>	Volume						Liter		
		Time to fill						Sec		
		Flow depth Flow width		0, "			ī	In Ft, In		
☐Flow #2	N.	Measured lengt		<u>δ</u> , "				Ft, In		
		Time of travel	-+	<u>*</u>				Sec		
٠	L Fempera							°F		
	pH						pH	I Units	Te	st strip/Probe
	Ammo	nia						ppm		Test strip

INDICATOR	CHECK if Present		DESCRIPTION	N		REL	ATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleus	m∕gas	1 – Faint		2 - Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	1 – Faint cold		2 – Clearly visible in sample bottle	3 Clearly visible in outfall flow
Turbidity			See severity		☐ 1 – Slight clo	oudiness	2 – Cloudy	☐ 3 – Opaque
Floatables		П п <i>(</i> т.					2 – Some; indications	☐ 3 - Some; origin clear
-Does Not Include Trash!! otes: Potential tidal influe		Petroleum	oilet Paper, etc.) Suds (oil sheen) Other:	S	☐ 1 – Few/sligh not obvious	nt; origin	of origin (e.g., possible suds or oil sheen)	(e.g., obvious oil sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! otes: Potential tidal influe	ence due to low tide	□ Petroleum	oil sheen)		not obvious	nt; origin	possible suds or oil	sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! otes: Potential tidal influence ction 5: Physical Ir e physical indicator	ence due to low tide adicators for Bot s that are not relat	h Flowing and ted to flow propresent	oil sheen)	(If No, Skip to Se	not obvious	nt; origin	possible suds or oil sheen)	sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! otes: Potential tidal influence ction 5: Physical Ir e physical indicator INDICATOR	ndicators for Bots that are not related	h Flowing and ted to flow propresent	oil sheen)	O (If No, Skip to Se DESCRIPTION pping	not obvious	sediment a	possible suds or oil sheen) COMMENT	sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! otes: Potential tidal influence ction 5: Physical Ir e physical indicator INDICATOR Outfall Damage	ndicators for Bots that are not related CHECK if F	h Flowing and ted to flow propresent	(oil sheen)	O (If No, Skip to Se DESCRIPTION pping	not obvious		possible suds or oil sheen) COMMENT	sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! otes: Potential tidal influence ction 5: Physical Ir e physical indicator INDICATOR Outfall Damage Deposits/Stains	ndicators for Bots that are not related CHECK if F	h Flowing and the dot to flow propresent	oil sheen)	DESCRIPTION pping Peeling Paint Other: Floatables Oil She	not obvious		possible suds or oil sheen) COMMENT	sheen, suds, or floating sanitary materials)

Section 1: Bacl	kground Data	OUIFA	LL RECONNAIS	SAINCE IN		11-71	(8/8)	PSIC
Subwatershed:			¥.	Outfall	ID:	752	57	
Today's date:	7/17/12	·		Time (N	/lilitary):	095	7	
Investigators:	W			Form co	mpleted by:	A2_	•	
Temperature (°F)	: 11-2	Rainf	all (in.): Last 24 hours	: 0 Last 48 l	hours: 0	ī		
Latitutde:		Longitude:		GPS Ur	nit:		GPS LMK #	
Camera: Nikon-				Photo #	s:		**	
Land Use in Drain	nage Area (Check all th	at apply):	-					
ndustrial				☐ Ope	n Space			
Ultra-Urban R	Residential			☐ Insti	tutional			
Suburban Res	idential			Other:			<u> </u>	
☐ Commercial				Known	Industries:			
Notes (e.g, origi	n of outfall, if known):	large crabs, Mi	nnows, vegetation along	canal is spars	e, trash on side	of canal, paper a	nd plastic.	
* ?	543	1 Sode	y or wine	1	o flo	<u> </u>		
			- Was					
	fall Description							
LOCATIO		ERIAL		HAPE		DIMENSIO		SUBMERGED
	□ RCP	Z CMP	Circular	Single		Diameter/Dimens	ions:	In Water:
	□ PVC	HDPE	☐ Eliptical	☐ Double	; -	0		Partially Fully
Closed Pipe	☐ Steel		☐ Box	☐ Triple				
-l, / -	Other:		☐ Other:	Other:				With Sediment:
Ĺ								☐'Partially ☐ Fully
	☐ Concrete					- ·		
	☐ Earthen		☐ Trapezoid		ł	Depth:		
Open drainag	e		☐ Parabolic			Top Width:	-	
1	Other:		☐ Other:		1	Bottom Width:		
☐ In-Stream		when collecting	samples)					
Flow Present?	☐ Yes	MNo		kip to Section	5			
Flow Description		/`~		kip io seciion				
(If present)	☐ Trickle	☐ Moderat	e 🔲 Substantial					
Section 3: Qua	ntitative Charact	erization						
			FIELD DATA FOR	FLOWING	OUTFALLS		- · · · · · · · · · · · · · · · · · · ·	
Р	ARAMETER		RESULT		UN	IIT	E	QUIPMENT
□Flow#1	Volume				Li	ter		
	Time to fill				Se	ес		
	Flow depth				I	n		
☐Flow #2	Flow width	<u>0</u> '	***		Ft,	In		
LIFIOW #2	Measured lengt	h <u>0</u> '	"		Ft,	. In	:: +r=rm	
, I	Time of travel				Se	ec		
	Temperature				0	F		
	pН				J Ha	Inits	Te	st strip/Probe

ppm

Test strip

Ammonia

INDICATOR	CHECK if Present		, DESCRIPTIO	N		RE	LATIVE SEVERITY INDEX	(1-3)
Odor ·		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleu ☐ Other:	ım/gas	☐ 1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	1 - Faint co		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		cloudiness	2 - Cloudy	☐ 3 – Opaque	
Floatables -Does Not Include		1	Toilet Paper, etc.) Suds		☐ 1 – Few/sli	ght; origin	2 – Some; indications of origin (e.g., possible suds or oil	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floatin
Trash!! otes: Potential tidal influe		Petroleum	(oil sheen)				sheen)	sanitary materials)
otes: Potential tidal influence cetion 5: Physical In	ence due to low tide	th Flowing a	nd Non-Flowing Qutfall	(If No, Skip to	Section 6)			
otes: Potential tidal influe	ence due to low tide	th Flowing a	nd Non-Flowing Qutfall	O (If No, Skip to			sheen) COMMENT	
otes: Potential tidal influence ection 5: Physical In re physical indicators INDICATOR	dicators for Bosthat are not rela	th Flowing a	nd Non-Flowing Qutfall resent? Yes	DESCRIPTION ipping Peeling		sediment	COMMENT	
otes: Potential tidal influence of the physical indicators INDICATOR Outfall Damage	dicators for Bosthat are not rela	th Flowing a	nd Non-Flowing Qutfall resent? Yes No	DESCRIPTION ipping Peeling		sediment	COMMENT	
otes: Potential tidal influence of the physical indicators INDICATOR Outfall Damage Deposits/Stains	ence due to low tide dicators for Bot s that are not rela CHECK if I	th Flowing a	nd Non-Flowing Outfall resent? Yes No	DESCRIPTION ipping Peeling Paint Other:	g Paint Sheen	sediment	COMMENT	

Section 1: Back	groun	ıd Data							
Subwatershed:		1			Outfall II);	Y52-	0	?
Today's date:	-1	11/12			Time (Mi	litary):	1015		
Investigators:		V			Form con	npleted by:	AZ		
Temperature (°F):			Rainfa	all (in.): Last 24 hours: 0	Last 48 ho	ours: 0			
Latitutde:		Lo	ongitude:		GPS Unit	i:		GPS LMK #:	
Camera: Nikon-					Photo #s:				
Land Use in Drair	nage Are	ea (Check all that ap	ply):						
☐ Industrial					□ Ореп	Space			
☐ Ultra-Urban R	esidenti	al			☐ Institu	ıtional			
Suburban Resi	idential				Other:				
Commercial					Known Ir	ndustries:			
Notes (e.g, origin			crabs, Mii	nnows, vegetation along ca	unal is sparse	, trash on sic	le of canal, paper	and plastic.	
LOCATION		MATERI	AL	SHA	\PE		DIMENSIO	NS (IN.)	SUBMERGED
Closed Pipe		j ^	Д́ СМР ☐ НОРЕ	☐ Circular ☐ Eliptical ☐ Sox ☐ Other:	Single Double Triple Other:		Diameter/Dimen	sions:	In Water: No Partially Fully With Sediment: No Partially Fully
☐ Open drainag	e	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:			Depth: Top Width: Bottom Width: _		
☐ In-Stream		(applicable when	collecting	samples)			<u> </u>		<i>Villandinananananananananananananananananana</i>
Flow Present?	,	Yes	No	If No, Skip	o to Section 5	5			
Flow Description (If present)		☐ Trickle [Moderate	e 🔲 Substantial					
Section 3: Qua	ntitati	ive Characteriz	zation	FIELD DATA FOR FI	OWING	LITEALLE			
D	ARAMI			RESULT	LOWING O		INIT	E/	QUIPMENT
		Volume		RESOLI			Liter		SOTLMENI
□Flow #I		Time to fill					Sec		
		Flow depth					In		
		Flow width	<u>0</u> '	27		I	Ft, In		
∏Flow #2	1	Measured length	<u>0</u> '	**		I	t, In		
l		Time of travel					Sec		
	Tempera	iture					°F		
	pН					pH:	I Units	Te	st strip/Probe
	Ammo	nia ———					nnm		Test strip

INDICATOR	CHECK if Present		DESCRIPTION	DN		RELATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petrole	um/gas	☐ 1 – Faint	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear☐ Green	☐ Brown ☐ Gray ☐ Yellow ☐ 1 − Faint colors in sample bottle			3 – Clearly visible in outfall flow	
Turbidity			See severity		☐ 1 – Slight cloudiness	2 – Cloudy	☐ 3 – Opaque
Floatables		Sewage (Foilet Paper, etc.) ☐ Suds			2 – Some; indications	3 - Some; origin clear
-Does Not Include Trash!! otes: Potential tidal influences ction 5: Physical In		Petroleum	• • • =	Is	1 Few/slight; origin not obvious	of origin (e.g., possible suds or oil sheen)	(e.g., obvious oil sheen, suds, or floatin sanitary materials)
Trash!! otes: Potential tidal influe	ence due to low tide	Petroleum	n (oil sheen)		not obvious	possible suds or oil	sheen, suds, or floatin sanitary materials)
Trash!! otes: Potential tidal influence ction 5: Physical In e physical indicators	ence due to low tide adicators for Bot s that are not rela	Petroleum	n (oil sheen)	o (If No, Skip to S DESCRIPTION	ection 6)	possible suds or oil sheen)	sheen, suds, or floatin sanitary materials)
Trash!! otes: Potential tidal influence ction 5: Physical In e physical indicators INDICATOR	adicators for Bots that are not rela	Petroleum	n (oil sheen)	O (If No, Skip to S DESCRIPTION hipping	ection 6)	possible suds or oil sheen) COMMEN	sheen, suds, or floatin sanitary materials)
Trash!! otes: Potential tidal influence ction 5: Physical Interpretation: INDICATOR Outfall Damage	ence due to low tide adicators for Bot s that are not rela CHECK if F	Petroleum	n (oil sheen)	O (If No, Skip to S DESCRIPTION hipping	ection 6)	possible suds or oil sheen) COMMEN	sheen, suds, or floatin sanitary materials)
Trash!! otes: Potential tidal influence ction 5: Physical Ir e physical indicators INDICATOR Outfall Damage Deposits/Stains	adicators for Bots that are not related CHECK if F	Petroleum	n (oil sheen)	DESCRIPTION hipping Peeling P. Paint Other:	ection 6) aint Stanny sedin	possible suds or oil sheen) COMMEN	sheen, suds, or floating sanitary materials)

Section 1: Backgro	und Data	COLLIE			VENTORY FORM PS 2	Not	52-52
Subwatershed:	una vua			Outfall I	D: POPUL -C	57	<u>, </u>
, Today's date:	7/17/12			Time (M	<u> </u>	17	
Investigators:	2/1-/1	•	· ·		mpleted by:	1	
Temperature (°F):	7 (Rainfa	all (in.): Last 24 hours				
Latitutde:		Longitude:		GPS Uni	it:	GPS LMK #	
Camera: Nikon-	<u> </u>			Photo #s	:		
Land Use in Drainage	Area (Check all that	apply):		•			
☐ Industrial				☐ Open	Space		
Ultra-Urban Reside	ntial			☐ Instit	tutional		
Suburban Residenti	al			Other: _			
☐ Commercial				Known l	Industries:		
Motes (e.g., origin of o	outfall if known): las	roe orahe Mir	moure vegetation along		e, trash on side of canal, p		
LOCATION	MATER			HAPE Single		MSIONS (IN.)	SUBMERGEI In Water:
	RCP	CMP	Circular	Single	Diameter/D	imensions:	In Water: ☐ No
<u> </u>	☐ PVC	HDPE	Eliptical	Double			Partially Fully
Closed Pipe	☐ Steel		Вох	☐ Triple			With Sediment:
\ (Other:		Other:	Other:			→ □ No
ĺ							Partially Fully
	☐ Concrete		,	/	~ .		
	☐ Earthen		☐ Trapezoid		Depth:		
Open drainage	☐ rip-rap		Parabolic		Top Width:		
	Other:	_	Other:		Bottom Wi-	dth:	
☐ In-Stream	(applicable wh	en collecting	samples)		· · · · · ·		
Flow Present?	☐ Yes	Μhο	If No, S	Skip to Section	5		
Flow Description (If present)	☐ Trickle	☐ Moderate	e 🔲 Substantial				
Section 3: Quantit	ative Characte	rization					
			FIELD DATA FOR	FLOWING (
PARA	METER		RESULT		UNIT	E	QUIPMENT
□Flow#1	Volume				Liter	Liter	
	Time to fill				Sec		

(

		FIELD DATA FOR FLOWIN	IG OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
□Flow#1	Volume		Liter	
	Time to fill		Sec	
	Flow depth		In	· · · · · ·
Пт #0	Flow width	<u>o</u> , ,,	Ft, In	
∏Flow #2	Measured length	<u>o</u> , "	Ft, In	
	Time of travel		Sec	
,	Temperature		°F	
	pH		pH Units	Test strip/Probe
	Ammonia		ppm	Test strip

INDICATOR	CHECK if Present		DESCRIPTION	N		REI	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleu☐ Other:	m/gas	1 - Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear☐ Green	☐ Brown ☐ Gray ☐ Yellow ☐ 1 − Faint colo sample bott			2 – Clearly visible in sample bottle	3 - Clearly visible in outfall flow	
Turbidity			See severity		☐ 1 – Slight clo	oudiness	2 – Cloudy	3 - Opaque
Floatables	-	☐ Sewage (7	Foilet Paper, etc.) Suds		☐ 1 – Few/sligh	nt; origin	2 – Some; indications of origin (e.g.,	3 - Some; origin clear (e.g., obvious oil
	ndicators for Bot		nd Non-Flowing Outfall		not obvious		possible suds or oil sheen)	sheen, suds, or floatin sanitary materials)
Trash!! otes: Potential tidal influ	ence due to low tide	th Flowing at	nd Non-Flowing Outfalls				1 *	sanitary materials)
Trash!! otes: Potential tidal influ ction 5: Physical In e physical indicator	ence due to low tide ndicators for Bot s that are not rela	th Flowing at	nd Non-Flowing Outfalls	(If No, Skip to	Section 6)		sheen)	
Trash!! otes: Potential tidal influction 5: Physical Interpretation of the physical indicator indicator indicator	ence due to low tide ndicators for Bot s that are not rela	th Flowing at	nd Non-Flowing Outfalls resent? Yes No	DESCRIPTION pping Peeling	Section 6)	sediment a	sheen) COMMENT	sanitary materials)
Trash!! otes: Potential tidal influction 5: Physical Interpretation of the physical indicator INDICATOR Outfall Damage	ence due to low tide ndicators for Bot s that are not rela CHECK if F	th Flowing at	nd Non-Flowing Outfalls resent?	DESCRIPTION pping Peeling	Section 6)	sediment a	sheen) COMMENT	sanitary materials)
Trash!! otes: Potential tidal influ ction 5: Physical In e physical indicator INDICATOR Outfall Damage Deposits/Stains	ence due to low tide ndicators for Bot s that are not rela CHECK if F	th Flowing at	nd Non-Flowing Outfalls resent?	DESCRIPTION pping Peeling Paint Other:	Section 6) Paint Sheen	sediment a	sheen) COMMENT	sanitary materials)

Section 1: Back	groun	d Data				· · · · · · · · · · · · · · · · · · ·				
Subwatershed:					,	Outfall I		D255-0.	<u> </u>	
Today's date:		1/1-1/12				Time (M		1529	1	
Investigators:		1/12					mpleted by:	<u>i</u> f	7_	
Temperature (°F):					ll (in.): Last 24 hours: 0	1			-	
Latitutde:			Longit	tude:		GPS Uni			GPS LMK #:	
Camera: Nikon-						Photo #s	<u>: </u>			
Land Use in Drains	age Are	a (Check all tha	t apply)):		. •				
☐ Industrial						☐ Open	Space			
☐ Ultra-Urban Re	esidentia	al				☐ Instit	utional			
Suburban Resid	dential					Other: _				
☐ Commercial						Known l	industries: _			
Notes (e.g, origin		347	arge cra	ibs, Min	nows, vegetation along c	anal is spars	, trash on si	de of canal, paper	and plastic.	
LOCATION		MATE	RIAL		SHA	APE		DIMENSIO	NS (IN.)	SUBMERGED
		□ RCP	μjo	MP	☐ Circular	☐ Single		Diameter/Dimen		In Water:
		□ PVC	ΉШ	DPE	☐ Eliptical	Double		<u> 8-10</u>	across	In water: No Partially Fully
Closed Pipe		☐ Steel			М Вох	✓ Triple		7A.	descloss	Fully
7		Other:			Other:	Other:		297	~ 45°CY	With Sediment:
		L. J Ouler.				L Onion				Partially Fully
		☐ Concrete			☐ Trapezoid			Danth		
		Earthen						Depth:		
Open drainage	•	☐ rip-rap			Parabolic			Top Width:		
		Other:			Other:			Bottom Width:	······································	
☐ In-Stream		(applicable w	hen col	lecting	samples)	··· ••		<u>. </u>		
Flow Present?	•	☐ Yes		MNo		ip to Section	. 5	 		
Flow Description (If present)		☐ Trickle	□л	(Aoderate	e ☐ Substantial					
Section 3: Qua	ntitat	ive Characte	erizat	ion						
				ı	FIELD DATA FOR F	LOWING				
P/	ARAM			<u> </u>	RESULT			UNIT	EC	QUIPMENT
□Flow#1	<u> </u>	Volume						Liter		
		Time to fill						Sec		
	<u> </u>	Flow depth		0)	,,			In E. I		
□Flow #2	ļ	Flow width		_ ⊻	,,			Ft, In		
ļ	ļ	Measured lengti	1	<u>0</u> '	··		<u></u>	Ft, In		
		Time of travel						Sec °F		
	Tempera			<u> </u>	J				TT-	
	pН			1			p)	H Units	l Te	st strip/Probe

Ammonia

Test strip

ppm

Outfall Reconnais _____e Inventory Form

INDICATOR	CHECK if Present		DE	ESCRIPTION			RE	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour	ır 🗌 Petroleun	n/gas	☐ 1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Orange	☐ Gray	☐ Yellow ☐Other:	☐ 1 – Faint co sample bo		2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity				See severity		☐ 1 – Slight cl	loudiness	2 - Cloudy	☐ 3 — Opaque
Floatables		C Samero "	T-11-4 D	Suds			T. 4	2 - Some; indications	3 - Some; origin clear
-Does Not Include Trash!! tes: Potential tidal influenction 5: Physical In	ndicators for Bot	□ Petroleum	nd Non-Flowi	□ Other:		1 – Few/slig not obvious	rnt; origin	of origin (e.g., possible suds or oil sheen)	(e.g., obvious oil sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influ	ence due to low tide	Petroleum	n (oil sheen)	Other:	(If No, Skip to	not obvious	nt; origin	possible suds or oil sheen)	sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influence ction 5: Physical Include physical indicator	ence due to low tide ndicators for Bot s that are not relat	Petroleum	n (oil sheen) and Non-Flowing resent?	Other:	(If No, Skip to	not obvious Section 6)	nt; origin	possible suds or oil sheen)	sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influence ction 5: Physical Inc. physical indicator INDICATOR	ence due to low tide ndicators for Bot s that are not relat	Petroleum	n (oil sheen) and Non-Flowing resent? Spalling, Cr Corrosion	Other:	(If No, Skip to DESCRIPTION ping	not obvious Section 6)	sediment	possible suds or oil sheen) COMMENT	sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influence ction 5: Physical Inc. physical indicator INDICATOR Outfall Damage	ence due to low tide ndicators for Bot s that are not relat CHECK if F	Petroleum	n (oil sheen) and Non-Flowing resent? Spalling, Cr Corrosion Oily Flo	ing Outfalls Yes No	(If No, Skip to DESCRIPTION ping	not obvious Section 6)		possible suds or oil sheen) COMMENT	sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influence ction 5: Physical Include e physical indicator INDICATOR Outfall Damage Deposits/Stains	ence due to low tide ndicators for Bot s that are not relat CHECK if F	Petroleum	n (oil sheen) and Non-Flowing resent? Spalling, Cr Corrosion Oily Excessive Odors	ing Outfalls Yes No racking or Chip ow Line	(If No, Skip to DESCRIPTION ping □ Peelin Paint □ Other: □ Floatables □ Oil	not obvious O Section 6) g Paint Sheen		possible suds or oil sheen) COMMENT	sheen, suds, or floating sanitary materials)

ection 1: Backgro	ound Data	OCCUPATION OF THE PROPERTY OF			- Chicago - Chic
Subwatershed:			Outfail ID:	P53-01	
Today's date:	7/12/12		Time (Military):	1038	
Investigators:	MZ_		Form completed by	: <u>6</u>	
remperature (°F):	V 1	Rainfall (in.): Last 24 hours: 0	0 Last 48 hours: 0		
Latitutde:	Longit	tude:	GPS Unit:	GPS LMK #	# :
Camera: Nikon-			Photo #s:		
_	e Area (Check all that apply)):	1.00		
dustrial			Open Space		
Ultra-Urban Resid	lential		☐ Institutional		
Suburban Residen	ntial		Other:		
☐ Commercial			Known Industries:		
,	349,350	abs, Minnows, vegetation along o	canal is sparse, trash on	side of canal, paper and plastic.	4-343040773007
LOCATION	MATERIAL	SH	IAPE	DIMENSIONS (IN.)	SUBMERGED
	□ RCP XC	CMP Circular	Single	Diameter/Dimensions:	In Water:
		IDPE T	Double	41	☐ No ☑ Partially
V					Fully
Closed Pipe	Steel	Вох	☐ Triple		With Sediment:
	Other:	_ Other:	Other:		☐ No ☐ Partially ☐ Fully
	☐ Concrete	☐ Trapezoid		Depth:	
<u> </u>	☐ Earthen			Į.	
☐ Open drainage	☐ rip-rap	Parabolic		Top Width:	
	☐ Other:	Other:		Bottom Width:	
☐ In-Stream	(applicable when col	llecting samples)			
Flow Present?		~~~	kip to Section 5		
Flow Description If present)		Moderate Substantial	up to Boomer.		
	itative Characterizati	ion	por the second s		And the second s
			FLOWING OUTFALL	S	
PAR	RAMETER	RESULT		UNIT	EQUIPMENT
	Volume		,,,	Liter	
□Flow#1	Time to fill			Sec	
	Flow depth			In	
	Flow width	<u>0</u> ' "		Ft, In	
□Flow #2	Measured length	<u>0</u> , "		Ft, In	
	Time of travel			Sec	
Ter	mperature			°F	
	р Н			pH Units	Test strip/Probe
Δ.	mmonia			ppm	Test strip

INDICATOR	CHECK if Present		DESCRIPTION	N		REL	ATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage	☐ Rancid/sour ☐ Petroleu ☐ Other:	m/gas	☐ 1 — Faint	·	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	☐ 1 — Faint colors sample bottle		2 – Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbidity			See severity		☐ 1 Slight cloud	diness	2 - Cloudy	☐ 3 – Opaque
Floatables		Sewage (7	Toilet Paper, etc.) Suds		T 1 Pout Viete	origin	2 – Some; indications	3 - Some; origin clear
Does Not Include Trash!! es: Potential tidal influ-	ndicators for Bot	☐ Petroleum	(oil sheen)		1 - Few/slight; not obvious	origin	of origin (e.g., possible suds or oil sheen)	(e.g., obvious oil sheen, suds, or floatin sanitary materials)
-Does Not Include Trash!! es: Potential tidal influ	ence due to low tide	Petroleum	nd Non-Flowing Outfalls		not obvious	ongm	possible suds or oil	sheen, suds, or floatin sanitary materials)
Does Not Include Trash!! es: Potential tidal influe tion 5: Physical In physical indicator	ence due to low tide adicators for Bot s that are not rela	Petroleum	nd Non-Flowing Outfalls	(If No, Skip t	not obvious	ongm	possible suds or oil sheen)	sheen, suds, or floatin sanitary materials)
Does Not Include Trash!! es: Potential tidal influ- tion 5: Physical In physical indicator INDICATOR	ence due to low tide adicators for Bot s that are not rela CHECK if F	Petroleum	nd Non-Flowing Outfalls resent? Yes No	(If No, Skip t	o Section 6)	sediment å	possible suds or oil sheen) COMMENT	sheen, suds, or floatin sanitary materials)
Does Not Include Trash!! es: Potential tidal influ- tion 5: Physical In physical indicator INDICATOR Outfall Damage	ence due to low tide adicators for Bot s that are not rela CHECK if F	Petroleum	nd Non-Flowing Outfalls resent? Yes No	(If No, Skip to DESCRIPTION pping	o Section 6)		possible suds or oil sheen) COMMENT	sheen, suds, or floatin sanitary materials)
Does Not Include Trash!! es: Potential tidal influe tion 5: Physical In physical indicator INDICATOR Outfall Damage Deposits/Stains	ence due to low tide adicators for Bot s that are not rela CHECK if F	Petroleum	nd Non-Flowing Outfalls resent? Yes No	(If No, Skip to DESCRIPTION Poping Peelin Paint Photobles Of Oil Poping Oil Peelin Paint Poping Oil Peelin Paint Peelin Paint Peelin Pe	o Section 6) Ig Paint Sheen		possible suds or oil sheen) COMMENT	sheen, suds, or floatin sanitary materials)

Section 1: Back	groui	iu Data			,			
Subwatershed:		 			Outfall ID:	P26-01		<u>. </u>
Today's date:		7/16/12			Time (Military):	0908		
Investigators: 1	MA,	ACR, HAS	<u>t J(</u>	ひ ト ブ	Form completed by:	Anthony	Rodra	ver
Temperature (°F):		,	1	all (in.); Last 24 hours: 0	Last 48 hours: 0		U	
Latitutde:		Long	itude:		GPS Unit:		GPS LMK #:	
Camera: Nikon-					Photo #s:			
Land Use in Drain	iage Are	ea (Check all that appl	y):					
☐ Industrial					Open Space			
Ultra-Urban R	esidenti	al			☐ Institutional			
Suburban Resi	dential				Other:			
☐ Commercial					Known Industries:			
Notes (e.g, origin				nnows, vegetation along ca			-	
	5	their noted	iγ	Herbur Water East of overful	rs; 26"	of sedim	ent in	Vault box
Section 2: Outf	 fall De	Scription In	WF	iast of ovtful	I has a 111 of	Frediment	in vault	
LOCATION		MATERIAL		SHA	APE	DIMENSIO	NS (IN.)	SUBMERGED
		□ RCP □	СМР	☐ Circular	☐ Single	Diameter/Dimen	sions:	In Water:
		PVC	HDPE	☐ Eliptical	☐ Double			☐ No ☐ Partially
Closed Pipe		☐ Steel		☐ Box	☐ Triple			Fully
		Other:		☐ Other:	Other:			With Sediment: ☐ No
			_		<u></u>			☐ Partially ☐ Fully
		Concrete						
		☐ Earthen		☐ Trapezoid		Depth:		
Open drainage	B	☐ rip-rap		Parabolic		Top Width:	_	
		☐ Other:		☐ Other:		Bottom Width: _		
☐ In-Stream		(applicable when co	llecting	samples)				
Flow Present?		Yes	☐ No		o to Section 5			<u> </u>
Flow Description (If present)			Moderate	<u> </u>			<u></u>	
— Section 3: Qua	– ntitati	ive Characterizat	ion					
-				FIELD DATA FOR FL	OWING OUTFALLS		· · · · · · · · · · · · · · · · · · ·	
P/	ARAME	ETER		RESULT	ŧ	INIT	EC	QUIPMENT
□Flow#1		Volume]	Liter		
		Time to fill	ļ	-1.		Sec		
		Flow depth	ļ			In		
□Flow #2	<u> </u>	Flow width		**		Ft, In		
		Measured length	<u>ō</u> , ,	***	I	Ft, In		
.	<u> </u>	Time of travel		***		Sec		
[Tempera	iture	<u> </u>			°F		
<u> </u>	pН		 		pH:	I Units	Te	st strip/Probe
1	Ammo	nia				ppm		Test strip

INDICATOR	CHECK if Present		DESCRIPTION			RE	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleum ☐ Other:	/gas	1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	☐ 1 – Faint colsample bot		2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 – Slight clo	oudiness	2 - Cloudy	☐ 3 – Opaque
Floatables		☐ Sewage (Foilet Paper, etc.) ☐ Suds		5		☐ 2 – Some; indications	3 - Some; origin clear
-Does Not Include Trash!! tes: Potential tidal influe	dicators for Bot	□ Petroleum	n (oil sheen)	(If No, Skip to	1 - Few/slight not obvious	ht; origin	of origin (e.g., possible suds or oil sheen)	(e.g., obvious oil sheen, suds, or floatin sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influence ction 5: Physical In	ence due to low tide	Petroleun	n (oil sheen)	(If No, Skip to DESCRIPTION	not obvious	ht; origin	possible suds or oil	sheen, suds, or floating sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influence ction 5: Physical Include physical indicators	ence due to low tide adicators for Bot s that are not rela	Petroleun	n (oil sheen)	ESCRIPTION	not obvious Section 6)	ht; origin	possible suds or oil sheen)	sheen, suds, or floatin sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influence etion 5: Physical Includes physical indicators INDICATOR	ence due to low tide adicators for Bot s that are not rela CHECK IF F	Petroleun	n (oil sheen)	PESCRIPTION ping Peeling	not obvious Section 6)	sediment	possible suds or oil sheen) COMMEN	sheen, suds, or floatin sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influence etion 5: Physical Incephysical indicators INDICATOR Outfall Damage	ence due to low tide adicators for Bot s that are not rela CHECK if F	Petroleun	nd Non-Flowing Outfalls resent? Yes No Spalling, Cracking or Chip. Corrosion	PESCRIPTION ping Peeling	not obvious Section 6)		possible suds or oil sheen) COMMEN	sheen, suds, or floatin sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influe ction 5: Physical Ince physical indicators INDICATOR Outfall Damage Deposits/Stains	adicators for Bots that are not rela	Petroleun	nd Non-Flowing Outfalls resent? Yes No Spalling, Cracking or Chip Corrosion Oily Flow Line P	ping Peeling aint Other:	Section 6) Paint		possible suds or oil sheen) COMMEN	sheen, suds, or floating sanitary materials)

Section 1: Bacl	kgrour	ıd Data					
Subwatershed:					Outfall ID:	P25-02 /01 3	}
Today's date:	7	16/12			Time (Military):		
Investigators:	A	2 MA			Form completed by:	ACIR	
Temperature (°F):	1	,	Rainfa	all (in.): Last 24 hours: 0	Last 48 hours: 0		
Latitutde:		Long	itude:		GPS Unit:	GPS LM	IK #:
Camera: Nikon-					Photo #s:		
Land Use in Drain	nage Are	ea (Check all that apply	·):				
☐ Industrial					Open Space		
Ultra-Urban R	esidenti	al			☐ Institutional		
Suburban Resi	idential				Other:		
☐ Commercial					Known Industries: _		
Notes (e.g, origin	n of outf	fall, if known): large cr	abs, Mir	nnows, vegetation along ca	anal is sparse, trash on si	de of canal, paper and plastic	>.
D	ry)	No Edinit	. N.	otaning in	Jo indicators	of discharge	
Section 2: Out						-	
LOCATION		MATERIAL		SHA	APE	DIMENSIONS (IN.) SUBMERGED
		□ RCP □ C	МР	☐ Circular	Single	Diameter/Dimensions:	In Water:
		□ PVC □ I	IDPE	☐ Eliptical	☐ Double		☐ No ☐ Partially
Closed Pipe		☐ Steel		☐ Box	☐ Triple		☐ Fully
\ \		Other:	_	☐ Other:	☐ Other:		With Sediment: ☐ No
,							☐ Partially ☐ Fully
		☐ Concrete					
		☐ Earthen		☐ Trapezoid		Depth:	
Open drainage	е	☐ rip-rap		Parabolic Parabolic		Top Width:	
		☐ Other:		☐ Other:		Bottom Width:	
☐ In-Stream		(applicable when co	llecting	comples)	WWW.		
Flow Present?		Yes	□ No		p to Section 5		
Flow Description (If present)			Moderate				
Section 3: Oua	ntitati	ive Characterizat	ion				
200000000000000000000000000000000000000				FIELD DATA FOR FI	LOWING OUTFALLS		
P	ARAME	ETER		RESULT	į	INIT	EQUIPMENT
□Flow#1		Volume				Liter	
110w #1		Time to fill				Sec	
		Flow depth				Ĭn .	
∏Flow #2		Flow width	<u>0</u> , ,	"]	Ft, In	
	N	Measured length	0,	»]	Ft, In	
	<u> </u>	Time of travel				Sec	
	Tempera	iture				°F	
	pН				pF	I Units	Test strip/Probe
	Ammo	nia				ppnı	Test strip

INDICATOR	CHECK if Present		DESCRIPTION	ı		REL	ATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleun☐ Other:	n/gas	1 Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	☐ 1 — Faint color sample bottl		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 – Slight clou	ıdiness	2 - Cloudy	☐ 3 – Opaque
Floatables		Cayeen /	Toilet Paper, etc.) 🔲 Suds		D. Faradalian	n aniain	2 – Some; indications	3 - Some; origin clear
-Does Not Include Trash!! tes: Potential tidal influence tion 5: Physical In	dicators for Bot	☐ Petroleun	n (oil sheen)		□ I – Few/slight not obvious	., origin	of origin (e.g., possible suds or oil sheen)	(e.g., obvious oil sheen, suds, or floatin sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influe	ence due to low tide	Petroleum	and Non-Flowing Outfalls present? Yes No		not obvious	, ongm	possible suds or oil	sheen, suds, or floatin sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influence ction 5: Physical Include physical indicators	ence due to low tide adicators for Bot s that are not rela	Petroleum	and Non-Flowing Outfalls present? Yes No	(If No, Skip to Se	not obvious	, origin	possible suds or oil sheen)	sheen, suds, or floatin sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influence etion 5: Physical Inc. physical indicator: INDICATOR	adicators for Bots that are not rela	Petroleum	and Non-Flowing Outfalls oresent? Yes No Spalling, Cracking or Chip Corrosion	(If No, Skip to Se	not obvious	sediment a	possible suds or oil sheen) COMMENT	sheen, suds, or floatin sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influence etion 5: Physical Inc. physical indicators INDICATOR Outfall Damage	ence due to low tide adicators for Bot s that are not rela CHECK if F	Petroleum	and Non-Flowing Outfalls oresent? Yes No Spalling, Cracking or Chip Corrosion	(If No, Skip to Se	not obvious		possible suds or oil sheen) COMMENT	sheen, suds, or floatin sanitary materials)
-Does Not Include Trash!! tes: Potential tidal influe etion 5: Physical Incephysical indicators INDICATOR Outfall Damage Deposits/Stains	adicators for Bots that are not related CHECK if F	Petroleum	and Non-Flowing Outfalls oresent? Yes No Spalling, Cracking or Chip Corrosion Oily Flow Line	(If No, Skip to Se DESCRIPTION Deping Peeling Pai Paint Other: Floatables Oil She	not obvious		possible suds or oil sheen) COMMENT	sheen, suds, or floating sanitary materials)

Section 1: Back	kgrour	ıd Data						
Subwatershed:					Outfall ID:	P24-0	(<u> </u>
Today's date:	7	16 12			Time (Military):	0930		
Investigators:	- (Form completed by	AZR		
Temperature (°F):	:		Rainfa	all (in.): Last 24 hours: 0	Last 48 hours: 0			
Latitutde:		Long	gitude:		GPS Unit:		GPS LMK #:	
Camera: Nikon-					Photo #s:			
Land Use in Drain	nage Are	ea (Check all that appl	y):					
☐ Industrial					Open Space			
Ultra-Urban Re	esidenti:	al			☐ Institutional			
Suburban Resi	idential				Other:			
Commercial					Known Industries:			
Notes (e.g, origin Clear W Tidal Section 2: Outf	vater <u>det</u>	, active fie onis maide	rabs, Mir ,\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	nnows, vegetation along ca receiving ward 1+ hayz, 2-4'	anal is sparse, trash on s	ide of canal, paper	and plastic.	1
LOCATION	4	MATERIA	-	SHA	APE ·	DIMENSI	ONS (IN.)	SUBMERGED
		□ RCP □	CMP	☐ Circular	☐ Single	Diameter/Dimer	sions:	In Water:
		□ PVC □	HDPE	☐ Eliptical	Double			., ☐ No ☐ Partially
Closed Pipe		☐ Steel		☐ Box	☐ Triple			☐ Fully
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		Other:	_	☐ Other:	Other:			With Sediment: No Partially Fully
		☐ Concrete				1		
		☐ Earthen		☐ Trapezoid		Depth:		
Open drainage	e	☐ rip-rap		☐ Parabolic		Top Width:	_	
		Other:		☐ Other:		Bottom Width:		
☐ In-Stream		(applicable when co	ollecting	comples	#·			
Flow Present?		Yes	□ No		o to Section 5	· · · · · · · · · · · · · · · · · · ·		
Flow Description (If present)			Moderate					
Section 3: Qua	ıntitati	ive Characteriza	tion					··
				FIELD DATA FOR FL	LOWING OUTFALLS	;		
P	ARAME	ETER	1	RESULT		UNIT	E	QUIPMENT
□ 121am #1		Volume	†			Liter		
□Flow #1		Time to fill				Sec		
		Flow depth				In		
□Flow #2		Flow width	0,	**		Ft, In		
[]110W 112	N.	Measured length	0,	27		Ft, In		
ļ		Time of travel	<u> </u>			Sec		
,	Tempera	iture				°F		
	pН		-		P	H Units	Te	st strip/Probe
Í	Ammo	กเล				ppm		Test strip

INDICATOR	CHECK if Present		DESCRIPTION	N		REI	ATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleu ☐ Other:	m/gas	☐ 1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	1 - Faint cold sample bott		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ I — Slight clo	oudiness	2 - Cloudy	☐ 3 – Opaque
Floatables	_	Sewage (Toilet Paper, etc.) Suds		1 – Few/sligh	ht: origin	2 – Some; indications of origin (e.g.,	3 - Some; origin clear (e.g., obvious oil
	ndicators for Bot		and Non-Flowing Outfall		not obvious		possible suds or oil sheen)	
Trash!!	ence due to low tide	h Flowing a	and Non-Flowing Outfall resent? ☐ Yes ☐ No		not obvious		possible suds or oil	sheen, suds, or float sanitary materials)
Trash!! tes: Potential tidal influence tion 5: Physical Ir physical indicator	ence due to low tide adicators for Bot s that are not relate	h Flowing a	and Non-Flowing Outfall resent? ☐ Yes ☐ No	DESCRIPTION	not obvious Section 6)		possible suds or oil sheen)	sheen, suds, or floa sanitary materials)
Trash!! tes: Potential tidal influence tion 5: Physical Ir physical indicator INDICATOR	ndicators for Bots that are not related	h Flowing a	and Non-Flowing Outfall resent? Yes No	DESCRIPTION	not obvious Section 6)	sediment a	possible suds or oil sheen) COMMENT	sheen, suds, or floa sanitary materials)
tes: Potential tidal influences: Physical Ir physical indicator: INDICATOR Outfall Damage	ence due to low tide adicators for Bot s that are not relat CHECK IF F	h Flowing a	and Non-Flowing Outfall resent? Yes No	DESCRIPTION ipping Peeling	not obvious Section 6)		possible suds or oil sheen) COMMENT	sheen, suds, or floa sanitary materials)
tes: Potential tidal influences: Physical Ir physical indicator: INDICATOR Outfall Damage Deposits/Stains	adicators for Bots that are not related CHECK if P	h Flowing a	and Non-Flowing Outfall resent? Yes No Spalling, Cracking or Chi Corrosion	DESCRIPTION ipping Peeling Peeling Paint Other:	not obvious Section 6) Paint		possible suds or oil sheen) COMMENT	sheen, suds, or floa sanitary materials)

Section 1: Back	groun	ıd Data		· · · · · · · · · · · · · · · · · · ·		<u> </u>		
Subwatershed:					Outfall ID:	P23-03		
Today's date:	7	16/12			Time (Military):	0948		
Investigators:	M	A Mer			Form completed by:	R		
Temperature (°F):		, 	Rainfa	all (in.): Last 24 hours: 0	Last 48 hours: 0			
Latitutde:			Longitude:	***************************************	GPS Unit:		GPS LMK #:	
Camera: Nikon-					Photo #s:			
Land Use in Drain	ıage Are	a (Check all that	apply):					
☐ Industrial					Open Space			
Ultra-Urban Re	esidentia	al			☐ Institutional			·
☐ Suburban Resi	dential				Other:			
☐ Commercial					Known Industries: _			
Notes (e.g, origin らんれい Section 2: Outf	ing 1	Wonder, 8	rge crabs, Mir	nnows, vegetation along ca whe algue	inal is sparse, trash on si	de of canal, paper a	and plastic. The Galactic states of the control of	e coner has
LOCATION		MATER	RIAL	SHA	 \PE	DIMENSIO	NS (IN.)	SUBMERGED
		RCP	□СМР	☐ Circular	Single	Diameter/Dimens	sions:	In Water:
		□ PVC	☐ HDPE	☐ Eliptical	☐ Double			☐ No ☐ Partially
Closed Pipe		Steel		Box	Triple			Fully
		Other:		Other:	Other:			With Sediment:
í					L. Guier.			Partially Fully
		☐ Concrete		- marada		T		
		☐ Earthen		☐ Trapezoid		Depth:		
Open drainage	e	☐ rip-rap		☐ Parabolic		Top Width:		
		Other:	_	Other:		Bottom Width: _		
☐ In-Stream		(applicable wh	en collecting	samples)		<u> </u>		
Flow Present?		☐ Yes	□ No	If No, Ski _l	p to Section 5	·		
Flow Description (If present)		☐ Trickle	☐ Moderate	e				
Section 3: Qua	ntitati	ive Characte	rization					
				FIELD DATA FOR F	LOWING OUTFALLS			
P/	ARAME	ETER		RESULT	1	UNIT	EC	QUIPMENT
☐Flow#I		Volume				Liter		
		Time to fill				Sec		
		Flow depth				In		
□Flow #2	<u> </u>	Flow width	□ □	17		Ft, In		
_	1	Measured length	Ω'	"		Ft, In		
<u> </u>	<u> </u>	Time of travel				Sec		
1	Tempera					°F		
<u> </u>	pН				pı	H Units	1e	st strip/Probe
1	Ammo	nia				ppm		Test strip

INDICATOR	CHECK if Present		DESCRIPTION	I		REI	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleur☐ Other:	n/gas	☐ 1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear	☐ Brown ☐ Gray ☐ Orange ☐ Red			2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow	
Turbidity			See severity		☐ 1 – Slight ele	oudiness	2 – Cloudy	☐ 3 – Opaque
Floatables		☐ Sewage (*	Foilet Paper, etc.) ☐ Suds		☐ I – Few/sligh	ht; origin	2 – Some; indications of origin (e.g.,	3 - Some; origin clear
-Does Not Include Trash!! tes: Potential tidal influence tion 5: Physical In		☐ Petroleum	nd Non-Flowing Outfalls		not obvious		possible suds or oil sheen)	sheen, suds, or floating sanitary materials)
Trash!! tes: Potential tidal influence tion 5: Physical Inception of the physical indicators	ence due to low tide ndicators for Bot s that are not rela	th Flowing a	and Non-Flowing Outfalls resent?	(If No, Skip to	not obvious		sheen)	sanitary materials)
Trash!! tes: Potential tidal influence tion 5: Physical In	ence due to low tide	th Flowing a ted to flow p	and Non-Flowing Outfalls resent?	(If No, Skip to	not obvious			sanitary materials)
Trash!! tes: Potential tidal influence tion 5: Physical Inc. physical indicators INDICATOR	ence due to low tide ndicators for Bot s that are not rela CHECK if F	th Flowing a ted to flow p	and Non-Flowing Outfalls resent?	(If No, Skip to	not obvious o Section 6)	sediment a	sheen)	
Trash!! tes: Potential tidal influence: tion 5: Physical Inc. physical indicators INDICATOR Outfall Damage	ence due to low tide ndicators for Bot s that are not rela CHECK if F	th Flowing a ted to flow p Present	and Non-Flowing Outfalls resent?	(If No, Skip to DESCRIPTION pping □ Peelin	not obvious o Section 6)	sediment a	sheen)	sanitary materials)
tes: Potential tidal influence: tion 5: Physical Irephysical indicators INDICATOR Outfall Damage Deposits/Stains	ence due to low tide ndicators for Bots that are not rela CHECK if F	th Flowing a ted to flow p Present	nd Non-Flowing Outfalls resent? Yes No Spalling, Cracking or Chip Corrosion Oily Flow Line	(If No, Skip to DESCRIPTION pping □ Peelin Paint □ Other: □ Floatables □ Oil	not obvious Section 6) g Paint Sheen	sediment a	sheen)	sanitary materials)

Section 1: Back	grour	ıd Data			1	_		
Subwatershed:					Outfall ID:	423-02		
Today's date:		7/Kel12			Time (Military):	1002		
Investigators:					Form completed b	y:		
Temperature (°F):				all (in.): Last 24 hours: 0			ı	
Latitutde:		Long	itude:		GPS Unit:		GPS LMK #	:
Camera: Nikon-				• • •	Photo #s:			
Land Use in Drair	nage Are	ea (Check all that apply	r):					
☐ Industrial					Open Space			
Ultra-Urban R	esidenti	al			☐ Institutional			
☐ Suburban Resi	dential				Other:			
Commercial					Known Industries	:		
Notes (e.g, origin		· · · · · · · · · · · · · · · · · · ·	abs, Min	nnows, vegetation along ca	unal is sparse, trash or	a side of canal, paper	and plastic.	
LOCATION		MATERIAL		SHA		DIMENSI	ONS (IN.)	SUBMERGED
		□ RCP □ C		☐ Circular	Single	Diameter/Dimer		In Water:
			IDPE	☐ Eliptical	☐ Double			☐ No ☐ Partially
☐ Closed Pipe		☐ Steel		Box	— ☐ Triple			☐ Fully
		Other:		Other:	Other:			With Sediment:
`.			_	Concr.				☐ Partially ☐ Fully
		☐ Concrete		☐ Trapezoid		Depth:		
		☐ Earthen						
Open drainage	e	☐ rip-rap		☐ Parabolic		Top Width:		
		Other:		Other:		Bottom Width:		
☐ In-Stream		(applicable when co	llecting	samples)				
Flow Present?		☐ Yes	□ No	If No, Skip	o to Section 5			
Flow Description (If present)		☐ Trickle ☐ I	Moderat	e 🔲 Substantial				
Section 3: Qua	ntitati	ive Characterizat	ion					
~				FIELD DATA FOR F	OWING OUTFAL	LS		
P	ARAMI	ETER		RESULT		UNIT	E	QUIPMENT
□Flow #1		Volume				Liter		-
□Flow #1		Time to fill				Sec		
· · · · · · · · · · · · · · · · · · ·		Flow depth				In		
☐Flow #2		Flow width	ō,	27		Ft, In		
L1 10W #Z	I	Measured length	<u>0</u> '	"		Ft, In		
		Time of travel				Sec		
· 	Tempera	nture				°F		
	pН					pH Units	To	est strip/Probe
	Ammo	nia				ppm		Test strip

INDICATOR	CHECK if Present		DESCRIPTIO	N		REI	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petrolet☐ Other:	ım/gas	☐ 1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	☐ 1 – Faint cold sample bot		2 - Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 – Slight clo	oudiness	2 – Cloudy	☐ 3 – Opaque
Floatables		Sewage (T	Salar Branco and Company				☐ 2 – Some; indications	3 - Some; origin clear
Does Not Include Trash!! es: Potential tidal influe tion 5: Physical In	dicators for Bot	□ Petroleum	(oil sheen) Other:		not obvious	nt; origin	of origin (e.g., possible suds or oil sheen)	(e.g., obvious oil
Does Not Include Trash!! es: Potential tidal influe	nce due to low tide	Petroleum	(oil sheen) Other:		not obvious	nt; origin	possible suds or oil	(e.g., obvious oil sheen, suds, or floati sanitary materials)
Does Not Include Trash!! es: Potential tidal influe tion 5: Physical In physical indicators	nce due to low tide dicators for Bot that are not rela	Petroleum	(oil sheen) Other:	(If No, Skip to S	not obvious	nt; origin	possible suds or oil sheen)	(e.g., obvious oil sheen, suds, or floati sanitary materials)
Does Not Include Trash!! es: Potential tidal influe tion 5: Physical In physical indicators INDICATOR	dicators for Bot that are not rela	Petroleum	(oil sheen) Other: ond Non-Flowing Outfall resent? Yes No	DESCRIPTION ipping Peeling P.	not obvious	sediment a	possible suds or oil sheen) COMMENT	(e.g., obvious oil sheen, suds, or floati sanitary materials)
Does Not Include Trash!! es: Potential tidal influe tion 5: Physical In physical indicators INDICATOR Outfall Damage	dicators for Bot that are not rela	Petroleum	(oil sheen) Other: and Non-Flowing Outfall resent? Yes No	DESCRIPTION ipping Peeling P.	not obvious		possible suds or oil sheen) COMMENT	(e.g., obvious oil sheen, suds, or floati sanitary materials)
es: Potential tidal influe tion 5: Physical In physical indicators INDICATOR Outfall Damage Deposits/Stains	dicators for Bot that are not rela	Petroleum The Flowing and ted to flow propresent	(oil sheen)	DESCRIPTION ipping Peeling P. Paint Other: Floatables Oil Sh	not obvious		possible suds or oil sheen) COMMENT	(e.g., obvious oil sheen, suds, or floati sanitary materials)

Section 1: Back Subwatershed:	groui	iu Data			Outfall ID:	P23-01	7	
Today's date:					Time (Military):	1 23-01	•	
Investigators:		A war			Form completed by:	ACIZ		
Temperature (°F):		T Pac	Rainf	all (in.): Last 24 hours: 0		ricia		
Latitutde:		Lor	gitude:		GPS Unit:	,	GPS LMK #:	
Camera: Nikon-					Photo #s:	<u> </u>		
Land Use in Drain	nage Are	ea (Check all that app	ly):					
☐ Industrial					Open Space			
Ultra-Urban R	esidenti	al			Institutional			
Suburban Resi	dential				Other:			
☐ Commercial					Known Industries:	!		
Notes (e.g, origin Light Sed Dro Section 2: Outl	lines via	away for	crabs, Mir کمرورون مرکور	nnows, vegetation along ca closest to out to than (second	anal is sparse, trash on s I was wet, anel was (ide of canal, paper a trach IV ishty dang	and plastic. Tecivi o w/ lig	ing waters ht gedinut.
LOCATION	١	MATERIA	L	SHA	NPE	DIMENSIO	NS (IN.)	SUBMERGED
		□ RCP □	СМР	☐ Circular	☐ Single	Diameter/Dimen	sions:	In Water:
		□ PVC □	HDPE	☐ Eliptical	☐ Double			☐ No ☐ Partially
☐ Closed Pipe		☐ Steel		☐ Box	☐ Triple			☐ Fully
` .		☐ Other:		Other:	☐ Other:			With Sediment: No Partially Fully
Open drainage	е	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:		
In-Stream		(applicable when	ollecting	samples)				
Flow Present?		☐ Yes	☐ No	If No, Skip	o to Section 5			
Flow Description (If present)		☐ Trickle ☐	Moderat	e				
Section 3: Qua	ntitati	ive Characteriza	ition					
~				FIELD DATA FOR FI	OWING OUTFALLS	· · · · · · · · · · · · · · · · · · ·		
. P.	ARAME	ETER		RESULT	1	JNIT	EÇ	UIPMENT
□Flow#1		Volume				Liter		
		Time to fill				Sec		
		Flow depth		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		In		
□Flow #2		Flow width	<u> </u>	***		Ft, In		
- ····	1	Measured length	0,	27		Ft, In		
		Time of travel		manana mana		Sec		
	Tempera					°F		
	pН				pl	H Units	Tes	st strip/Probe
1	Ammo	nia				ppm		Test strip

INDICATOR	CHECK if Present		DESCRIPTION			REL	ATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:		1 - Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green		Yellow Other:	☐ 1 — Faint colo sample bott		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 — Slight clos	udiness	2 – Cloudy	3 – Opaque
Floatables		Sewage (7	Toilet Paper, etc.) Suds		1 – Few/sligh	t; origin	2 – Some; indications of origin (e.g.,	3 - Some; origin clear (e.g., obvious oil
~	dicators for Bot		nd Non-Flowing Outfalls	(If No. Chin to Sec	not obvious		possible suds or oil sheen)	sheen, suds, or floating sanitary materials)
Trash!! tes: Potential tidal influe	nce due to low tide	h Flowing a	nd Non-Flowing Outfalls resent? Yes No	(If No, Skip to Sec RIPTION			1 -	sanitary materials)
Trash!! tes: Potential tidal influence ction 5: Physical In e physical indicators	dicators for Bot	h Flowing a	nd Non-Flowing Outfalls resent? Yes No		ction 6)		sheen)	sanitary materials)
Trash!! tes: Potential tidal influence ction 5: Physical In physical indicators INDICATOR	dicators for Bot that are not rela	h Flowing a	nd Non-Flowing Outfalls resent? Yes No DESC Spalling, Cracking or Chipping	RIPTION	ction 6)	sediment a	sheen) COMMENT	
Trash!! tes: Potential tidal influence ction 5: Physical Interphysical indicators INDICATOR Outfall Damage	dicators for Bot that are not rela	h Flowing a	nd Non-Flowing Outfalls resent? Yes No DESC Spalling, Cracking or Chipping Corrosion	RIPTION Peeling Pair	ction 6)	sediment a	sheen) COMMENT	sanitary materials)
Trash!! tes: Potential tidal influence ction 5: Physical In e physical indicators INDICATOR Outfall Damage Deposits/Stains	dicators for Bot that are not related CHECK if F	h Flowing a	nd Non-Flowing Outfalls resent? Yes No DESC Spalling, Cracking or Chipping Corrosion Oily Flow Line Paint Excessive Inhibited	RIPTION Peeling Pair	ction δ)	sediment a	sheen) COMMENT	sanitary materials)

Section 1: Back	grour	nd Data						
Subwatershed:					Outfall ID:	f22-01		
Today's date:		7/(6/12			Time (Military):	1025		
Investigators:	MA	AR			Form completed by:			
Temperature (°F):			Rainfa	all (in.): Last 24 hours: 0	Last 48 hours: 0			
Latitutde:		Longi	tuđe:		GPS Unit:		GPS LMK #:	
Camera: Nikon-					Photo #s:			
Land Use in Drain	age Are	a (Check all that apply):					
Industrial					☐ Open Space			
Ultra-Urban Re	esidenti	al			Institutional			
Suburban Resi	dential				Other:			
☐ Commercial					Known Industries:			
Notes (e.g, origin Drain V Drain Section 2: Outf	_		abs, Min Sedin	nnows, vegetation along ca lilet over scate, let build up (2	nal is sparse, trash on s foll of water (4")	ide of canal, paper ; こっしん へっし	and plastic.	
LOCATION		MATERIAL		SHA	\PE	DIMENSIO	ONS (IN.)	SUBMERGED
		□ RCP □ C	MP	☐ Circular	☐ Single	Diameter/Dimer	sions:	In Water:
		□ PVC □ F	DPE	☐ Eliptical	☐ Double			☐ No ☐ Partially
Closed Pipe		☐ Steel		☐ Box	Triple			☐ Fully
		Other:			Other:			With Sediment:
``````````````````````````````````````			_		<u> </u>			Partially Fully
		☐ Concrete		☐ Trapezoid		Donth		
		☐ Earthen		_		Depth:		
Open drainage	2	☐ rip-rap		Parabolic		Top Width:		
		☐ Other:		Other:		Bottom Width:		
☐ In-Stream		(applicable when co	lecting	samples)				<i>X</i>
Flow Present?		☐ Yes	□ No	If No, Skip	to Section 5			
Flow Description (If present)	-	☐ Trickle ☐ M	Ioderate	e Substantial				
Section 3: Ona	ntitati	ve Characterizat	ion					
				FIELD DATA FOR FL	OWING OUTFALLS			· * .
P/	ARAME	TER		RESULT		UNIT	E	QUIPMENT
		Volume				Liter		
∏Flow#1		Time to fill				Sec		
		Flow depth				In		
□Flow #2		Flow width	<u>0</u> '	,,		Ft, In		
		Measured length	<u>0</u> '	,,		Ft, In		<del></del>
		Time of travel				Sec		
7	Гетрега	iture				°F		
	pН			**************************************	p	H Units	Te	st strip/Probe
	Ammo	n <b>ia</b>				ppm		Test strip

INDICATOR	CHECK if Present		DESCRIPTION	ı		REI	ATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleum	n/gas	1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color	. 🗆	☐ Clear	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	1 – Faint colo		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 – Slight cloudiness		2 – Cloudy	☐ 3 – Opaque
Floatables	_	☐ Sewage (*	Toilet Paper, etc.) 🔲 Suds		☐ 1 – Slight cloudiness ☐ 1 – Few/slight; origin not obvious		2 – Some; indications of origin (e.g.,	3 - Some; origin clear (e.g., obvious oil
	dicators for Bot		nd Non-Flowing Outfalls				possible suds or oil sheen)	sheen, suds, or floating sanitary materials)
Trash!!  otes: Potential tidal influence	ence due to low tide	th Flowing a	nd Non-Flowing Outfalls				1 1	
Trash!!  otes: Potential tidal influence  ction 5: Physical Ir  e physical indicators	ence due to low tide  adicators for Bot  s that are not rela	th Flowing a	nd Non-Flowing Outfalls	(If No, Skip to Se	ction 6)		sheen)	sanitary materials)
Trash!!  otes: Potential tidal influence  ction 5: Physical Interpretation  indicators  indicators	ence due to low tide  adicators for Bot s that are not rela  CHECK if F	th Flowing a	nd Non-Flowing Outfalls resent?	(If No, Skip to Se	ction 6)	sediment a	sheen)	sanitary materials)
Trash!!  otes: Potential tidal influence  ction 5: Physical Interpretation  indicators  indicators  Outfall Damage	ence due to low tide  adicators for Bot s that are not rela  CHECK if F	th Flowing a	nd Non-Flowing Outfalls resent?	(If No, Skip to Se  DESCRIPTION  oping	ction 6)	sediment a	sheen)	sanitary materials)
Trash!!  otes: Potential tidal influence ction 5: Physical Irre physical indicators INDICATOR  Outfall Damage  Deposits/Stains	ence due to low tide  adicators for Bot s that are not related CHECK if F	th Flowing a	nd Non-Flowing Outfalls resent? Yes No Spalling, Cracking or Chi Corrosion	(If No, Skip to Se  DESCRIPTION  Oping Peeling Pai  Paint Other:	ction 6)	sediment a	sheen)	sanitary materials)

Section 1: Back	groun	ıd Data								
Subwatershed:						Outfall I	ID: 72	1-06		
Today's date:		7/16/17				Time (N	Ailitary):	1035		
Investigators:	_M	4 Azrı				Form co	ompleted by:			
Temperature (°F):	,			Rainfa	nll (in.): Last 24 hours: 0	) Last 48 h	iours: 0			
Latitutde:			Longit	tude:		GPS Un	it:		GPS LMK #:	
Camera: Nikon-						Photo #s	s:			
Land Use in Draina	age Are	a (Check all the	at apply)	):				<del></del>		
☐ Industrial						☐ Oper	n Space			
☐ Ultra-Urban Re	esidenti:	al				Insti	tutional			
Suburban Resid	dential					Other: _				
☐ Commercial										
Notes (e.g, origin 2 p No.	5 te	ending to	large cra	ibs, Min	nnows, vegetation along ca , L was P10552	anal is spars L SWY	e, trash on sid	de of canal, paper Lincont and	and plastic.	
LOCATION			ERIAL		SH/	APE		DIMENSIO	ONS (IN.)	SUBMERGED
		RCP	□с	MP	☐ Circular	☐ Single		Diameter/Dimen	isions:	In Water:
		□ PVC	□н	IDPE	☐ Eliptical	Double	<b>:</b>			☐ No ☐ Partially
Closed Pipe		Steel	<del>-</del>		Вох	 ☐ Triple				Fully
_ Crosen r the		<u>                                     </u>				'				With Sediment:
		Other:		=	Other:	Other:				☐ No ☐ Partially ☐ Fully
		☐ Concrete								
_		Earthen			☐ Trapezoid			Depth:		
☐ Open drainage	<b>:</b>	☐ rip-rap			☐ Parabolic			Top Width:	•	
		Other:			☐ Other:			Bottom Width: _		
☐ In-Stream		(applicable w	when col	Hecting	comples			1		
Flow Present?		☐ Yes	Tagar we-	☐ No	<del></del>	ip to Section	, 5			
Flow Description		☐ Trickle		/Ioderate		<i>p</i> 10 200				
(If present)	٠٠. ياد							<del></del>		,
Section 3: Quar	ntitau	ve Characi	erizau	on	FIELD DATA FOR FI	LOWING	OUTFALLS			
	ARAME	 ETER			RESULT			JNIT	E(	QUIPMENT
		Volume						Liter		
□Flow#1		Time to fill						Sec		
		Flow depth						In		
		Flow width		<u>ō</u> , ,	,,		]	Ft, In		
□Flow #2	ı	Measured length	h	<del>                                     </del>	19		]	Ft, In		
ļ	<del></del>	Time of travel						Sec		
, <u>, , , , , , , , , , , , , , , , , , </u>	rempera	iture						°F		
**.	pН						pł	H Units	Te	est strip/Probe
	Ammo		-					nnm		Test strip

INDICATOR	CHECK if Present		DESCRIPTION	ON		RE	LATIVE SEVERITY INDEX	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petrole	um/gas	☐ 1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown         ☐ Gray           ☐ Orange         ☐ Red	☐ Yellow ☐Other:	☐ 1 — Faint cole sample bot		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		oudiness	2 – Cloudy	☐ 3 – Opaque	
Floatables		l	Coilet Paper, etc.) Suds		1 - Few/slight; originat obvious		2 – Some; indications of origin (e.g., possible suds or oil	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating
-Does Not Include Trash!!  otes: Potential tidal influence	ence due to low tide	h Flowing a		ls			sheen)	sanitary materials)
Trash!! otes: Potential tidal influe	ence due to low tide	th Flowing a	nd Non-Flowing Outfal		Section 6)		sheen)  COMMENT	
Trash!!  otes: Potential tidal influence  ection 5: Physical Introduce physical indicators	dicators for Bot that are not rela	th Flowing a	nd Non-Flowing Outfal	DESCRIPTION			,	
Trash!!  otes: Potential tidal influence  ection 5: Physical Interphysical indicators  INDICATOR	dicators for Bot that are not rela	th Flowing a	nd Non-Flowing Outfal resent?	DESCRIPTION  hipping		sediment a	COMMENT	
Trash!!  otes: Potential tidal influence  cetion 5: Physical Interphysical indicators  INDICATOR  Outfall Damage	dicators for Bot that are not rela	th Flowing a	nd Non-Flowing Outfal resent? Yes N Spalling, Cracking or C Corrosion	DESCRIPTION  hipping		sediment a	COMMENT	
Trash!!  fotes: Potential tidal influence  cetion 5: Physical Interphysical indicators  INDICATOR  Outfall Damage  Deposits/Stains	dicators for Bot that are not rela	th Flowing a	nd Non-Flowing Outfal resent? Yes N Spalling, Cracking or C Corrosion Oily Flow Line	DESCRIPTION hipping	Paint	sediment a	COMMENT	

Section 1: Back	grour	nd Data			1	D= -		
Subwatershed:				***	Outfall ID:	421-03		·
Today's date:		7/16/17			Time (Military):	1055		
Investigators:		MA AR			Form completed by:			
Temperature (°F):				all (in.): Last 24 hours: 0	<del></del>			
Latitutde:		Lon	gitude:		GPS Unit:		GPS LMK #:	
Camera: Nikon-		(0) 1 11 1			Photo #s:			
	iage Are	ea (Check all that app	(y):		_			
☐ Industrial					Open Space			
☐ Ultra-Urban R	esidenti	al			☐ Institutional			
☐ Suburban Resi	idential				Other:			
☐ Commercial					Known Industries: _			
	&di.	ment sich (		nnows, vegetation along can when our grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant grant			nd plastic.	
LOCATION		MATERIA	L.	SHA	APE	DIMENSIO	NS (IN.)	SUBMERGED
		□ RCP □	СМР	☐ Circular	☐ Single	Diameter/Dimensi	ons:	In Water:
		□ PVC □	HDPE	☐ Eliptical	☐ Double			☐ No ☐ Partially
Closed Pipe		☐ Steel		☐ Box	☐ Triple			Fully
		Other:		Other:	Other:			With Sediment: No Partially Fully
		Concrete		<u> </u>				
		Earthen		☐ Trapezoid		Depth:		
Open drainage	e	☐ rip-rap		Parabolic Parabolic		Top Width:	-	
		☐ Other:		Other:		Bottom Width:		
☐ In-Stream		(applicable when c	ollecting	samples)			· ·	
Flow Present?		Yes	☐ No		o to Section 5			
Flow Description (If present)		☐ Trickle ☐	Moderat					
Section 3: Qua	ntitati	ive Characteriza	tion					
				FIELD DATA FOR FI	OWING OUTFALLS			
P.	ARAMI	ETER		RESULT		JNIT	EC	QUIPMENT
□Flow#1		Volume		***************************************		Liter		
		Time to fill				Sec		
		Flow depth				In		
□Flow #2		Flow width	<u> </u>	,		Ft, In		
	1	Measured length	0,	"		Ft, In		
		Time of travel				Sec		
· · · · · · · · · · · · · · · · · · ·	Tempera	<del>.</del>				°F		· · · · · · · · · · · · · · · · · · ·
	pН			•	pl	H Units	Те	st strip/Probe
	Ammo	nia				ppm		Test strip

INDICATOR	CHECK if Present		DESCRIPTIO	N		REI	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petrolet☐ Other:	ım/gas	☐ 1 – Faint	,	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	1 – Faint cold sample bot		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 — Slight clo	oudiness	2 – Cloudy	3 – Opaque
Floatables		Sewage (T	oilet Paper, etc.)   Suds		☐ 1 – Slight cloudiness ☐ 1 – Few/slight; origin not obvious		2 – Some; indications of origin (e.g.,	3 - Some; origin clear (e.g., obvious oil
	dicators for Bot		nd Non-Flowing Outfal			r, orgin	possible suds or oil sheen)	
Trash!! tes: Potential tidal influe	ence due to low tide	th Flowing ar	nd Non-Flowing Outfal		not obvious	n, organ	possible suds or oil	sheen, suds, or floating sanitary materials)
Trash!!  tes: Potential tidal influence  tion 5: Physical Inception of the physical indicators	dicators for Bot	th Flowing ar	nd Non-Flowing Outfal	O (If No, Skip to S DESCRIPTION	not obvious	n, origin	possible suds or oil sheen)	sheen, suds, or floating sanitary materials)
Trash!!  tes: Potential tidal influence  tion 5: Physical Ince physical indicators  INDICATOR	dicators for Bot that are not related	th Flowing ar	nd Non-Flowing Outfall esent? Yes N	DESCRIPTION  ipping Peeling P	not obvious	sediment a	possible suds or oil sheen)  COMMENT	sheen, suds, or floating sanitary materials)
Trash!!  tes: Potential tidal influence  etion 5: Physical Ince physical indicators  INDICATOR  Outfall Damage	dicators for Bots that are not related CHECK if F	th Flowing arted to flow pr	nd Non-Flowing Outfall resent? Yes No Non-Flowing Outfall Yes No No No No No No No No No No No No No	DESCRIPTION  ipping Peeling P	not obvious		possible suds or oil sheen)  COMMENT	sheen, suds, or floating sanitary materials)
Trash!!  tes: Potential tidal influence:  ction 5: Physical Interphysical indicators  INDICATOR  Outfall Damage  Deposits/Stains	dicators for Bots that are not related CHECK if F	th Flowing arted to flow pr	nd Non-Flowing Outfall resent? Yes No No No No No No No No No No No No No	DESCRIPTION  ipping Peeling P  Paint Other:	not obvious		possible suds or oil sheen)  COMMENT	sheen, suds, or floating sanitary materials)

Section 1: Back	groun	ıd Data						
Subwatershed:					Outfall ID:	P20-01		
Today's date:		7/16/12			Time (Military):	1105		
Investigators:		, ,			Form completed by	ACR		
Temperature (°F):			Rainf	all (in.): Last 24 hours: 0	Last 48 hours: 0			
Latitutde:		L	ongitude:		GPS Unit:	·	GPS LMK #:	
Camera: Nikon-					Photo #s:			
Land Use in Drain	age Are	a (Check all that a	ply):					
☐ Industrial					Open Space			
Ultra-Urban R	esidenti	al			☐ Institutional			
Suburban Resi	dential				Other:			
Commercial					Known Industries:			
Heavy Section 2: Outf	all De	diment en Sediment.	acum	nnows, vegetation along co	e to remove	grate, ~ 3/	ly of p	
LOCATION	1	MATERI	AL	SHA		DIMENSIO	NS (IN.)	SUBMERGED
Closed Pipe		□ PVC [	] CMP	☐ Circular ☐ Eliptical ☐ Box	☐ Single ☐ Double ☐ Triple	Diameter/Dimen	sions:	In Water:  No Partially Fully  With Sediment:
:		Other:		Other:	Other:			☐ No ☐ Partially ☐ Fully
☐ Open drainage	è	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width: _		
☐ In-Stream		(applicable wher	collecting	samples)		·		
Flow Present?		☐ Yes	□No	If No, Ski	p to Section 5			
Flow Description (If present)		Trickle [	] Moderat	e 🔲 Substantial				
Section 3: Qua	ntitati	ive Characteri	zation	PYTE DATE FOR F				
	ARAMI	ETED		FIELD DATA FOR FI		UNIT	F-4	NITOMENT
P/	MAAMI	Volume		RESULT		Liter	E	QUIPMENT
□Flow #1		Time to fill				Sec		
· · · · · · · · · · · · · · · · · · ·		Flow depth				In		
		Flow width	<u>0</u> '	35		Ft, In		
☐Flow #2	ļ,	Measured length		32	- <del>·</del>	Ft, In		
	<del>                                     </del>	Time of travel				Sec		
	Tempera					°F		
	рН				F	H Units	Te	st strip/Probe
1 · 2 · 2 · 4 · 4 · 4 · 4 · 4 · 4 · 4 · 4	Ammo	nia				ppm		Test strip

INDICATOR	CHECK if Present		DESCRIPTIO	N		REL	ATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleu ☐ Other:	nm/gas	☐ 1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	1 – Faint cold sample bott		2 - Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 - Slight clo	oudiness	2 - Cloudy	☐ 3 – Opaque
Floatables		Sewage (T	oilet Paper, etc.)   Suds		☐ 1 – Few/sligh	ıt; origin	2 – Some; indications of origin (e.g., possible suds or oil	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating
-Does Not Include Trash!! otes: Potential tidal influe		☐ Petroleum		s	not obvious		sheen)	sanitary materials)
Trash!! otes: Potential tidal influe	nce due to low tide	h Flowing an	nd Non-Flowing Outfall					sanitary materials)
Trash!!  otes: Potential tidal influe  ction 5: Physical In  e physical indicators	dicators for Bot	h Flowing an	nd Non-Flowing Outfall	O (If No, Skip to S  DESCRIPTION	ection 6)		sheen)	sanitary materials)
Trash!!  otes: Potential tidal influe  ction 5: Physical In  e physical indicators  INDICATOR	dicators for Bot that are not rela	h Flowing an	nd Non-Flowing Outfall resent?	O (If No, Skip to S  DESCRIPTION  ipping	ection 6)	sediment a	sheen)  COMMENT	sanitary materials)
Trash!!  otes: Potential tidal influe  ction 5: Physical In  e physical indicators  INDICATOR  Outfall Damage	dicators for Bot that are not rela	h Flowing an	nd Non-Flowing Outfall esent? Yes No	O (If No, Skip to S  DESCRIPTION  ipping	ection 6)	sediment a	sheen)  COMMENT	sanitary materials)
Trash!!  otes: Potential tidal influe  ction 5: Physical In  e physical indicators  INDICATOR  Outfall Damage  Deposits/Stains	dicators for Bot that are not related CHECK if F	h Flowing and the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of	nd Non-Flowing Outfall resent?	DESCRIPTION  ipping Peeling P  Paint Other:	ection 6) aint	sediment a	sheen)  COMMENT	sanitary materials)

**Section 1: Background Data** 

Subwatershed:						Outfall ID:	<b>†</b>	19-08		
Today's date:	-	1/16/12			,	Time (Militar	y):	1122		
Investigators:		IA AN				Form complet	ted by:			
Temperature (°F):	•			Rainfa	ll (in.): Last 24 hours: 0	Last 48 hours:	0			
Latitutde:			Longit	ude:		GPS Unit:			GPS LMK #:	***
Camera: Nikon-						Photo #s:				
Land Use in Drain	age Are	a (Check all th	at apply)	:						
Industrial						Open Space	ce			
Ultra-Urban R	esidenti	al				Institution	al			
Suburban Resi	dential					Other:				
☐ Commercial						Known Indus	tries:			
Notes (e.g, origin	n of outs いんしゃ いん	fall, if known): The of the man	large crai wate, 1 5/0	bs, Min	nows, vegetation along co Red Ment build	anal is sparse, tras  Clisht  Romino	sh on sid ) (den	e of canal, paper a	nd plastic.	· · · · · · · · · · · · · · · · · · ·
Section 2: Out				·····			· · · · · · · · · · · · · · · · · · ·			1
LOCATION	4		ERIAL		SH/			DIMENSIO		SUBMERGED
		□ RCP		MР	☐ Circular	☐ Single		Diameter/Dimensi	ions:	In Water:
		□ PVC	□HI	DPE	☐ Eliptical	☐ Double				☐ Partially ☐ Fully
Closed Pipe		☐ Steel			☐ Box	☐ Triple				With Sediment:
<u>.</u>		Other:			☐ Other:	Other:	-			No Partially Fully
		☐ Concrete			□ <b></b>			Danaha		
		☐ Earthen			Trapezoid			Depth:		
Open drainage	е	☐ rip-rap			☐ Parabolic			Top Width:		
		Other:			Other:			Bottom Width:		
In-Stream		(applicable v	vhen coll	ecting:	samples)					
Flow Present?		☐ Yes		□ No	If No, Ski	p to Section 5				
Flow Description (If present)		☐ Trickle	□м	oderate	: Substantial			<u>-</u>		
Section 3: Qua	ntitati	ive Charact	erizatio	on						
					FIELD DATA FOR F	LOWING OUT	FALLS			
P.	ARAMI	ETER			RESULT		U	NIT	E(	QUIPMENT
□Flow#1		Volume					I	iter		
		Time to fill					į.	Sec		
		Flow depth						In		
∏Flow #2		Flow width		<u>0</u> , ,				t, In		
	<u> </u>	Measured lengt		0'	,			t, In		
l <u>.                                    </u>	<u> </u>	Time of travel				+		Sec		
· · · · · · · · · · · · · · · · · · ·	Tempera							°F	no.	ot otalin/Dunk a
	pH Ammo							Units	16	st strip/Probe
	Ammo	RUH	ı			1	7	nom		1661 61110

INDICATOR	CHECK if Present		DESCRIPTION	ſ		REL	ATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleum☐ Other:	n/gas	☐ 1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	☐ 1 – Faint color sample bottle		2 – Clearly visible in sample bottle	3 Clearly visible in outfall flow
Turbidity			See severity		☐ 1 – Slight clou	ıdiness	2 - Cloudy	☐ 3 – Opaque
Floatables'	_	Sewage (T	Coilet Paper, etc.)		☐ 1 – Slight cloudiness ☐ 1 – Few/slight; origin not obvious		2 – Some; indications of origin (e.g.,	3 - Some; origin clear
•	dicators for Bot	_	nd Non-Flowing Outfalls		not obvious		possible suds or oil sheen)	
Trash!!	ence due to low tide	h Flowing a	nd Non-Flowing Outfalls		not obvious		possible suds or oil	sheen, suds, or floatin sanitary materials)
Trash!!  otes: Potential tidal influe  ction 5: Physical In  e physical indicators	ence due to low tide  dicators for Bot  s that are not relat	h Flowing a	nd Non-Flowing Outfalls	(If No, Skip to Se	not obvious		possible suds or oil sheen)	sheen, suds, or floatin sanitary materials)
Trash!!  otes: Potential tidal influe  ction 5: Physical In  e physical indicators  INDICATOR	dicators for Bot that are not related	h Flowing a	nd Non-Flowing Outfalls resent? Yes No  Spalling, Cracking or Chip Corrosion	(If No, Skip to Se	not obvious	sediment a	possible suds or oil sheen)  COMMENT	sheen, suds, or floatin sanitary materials)
Trash!!  otes: Potential tidal influe  ction 5: Physical In  e physical indicators  INDICATOR  Outfall Damage	dicators for Bot that are not related CHECK if P	h Flowing a	nd Non-Flowing Outfalls resent? Yes No  Spalling, Cracking or Chip Corrosion	(If No, Skip to Se  DESCRIPTION  Deping Peeling Pa	not obvious	sediment a	possible suds or oil sheen)  COMMENT	sheen, suds, or floatin sanitary materials)
Trash!!  otes: Potential tidal influe  otion 5: Physical In  e physical indicators  INDICATOR  Outfall Damage  Deposits/Stains	dicators for Bots that are not related CHECK if P	h Flowing arted to flow pr	nd Non-Flowing Outfalls resent? Yes No  Spalling, Cracking or Chip Corrosion Oily Flow Line	(If No, Skip to Set  DESCRIPTION  Deping Peeling Pa  Paint Other:    Floatables   Oil She	not obvious  ection 6)  nint	sediment a	possible suds or oil sheen)  COMMENT	sheen, suds, or floating sanitary materials)

Section 1: Background Data

Subwatershed:						Outfall I	D:	P19-01		
Today's date:						Time (M	ilitary):	1128		
Investigators:	M	A AUR	_			Form co	npleted by:	ACR		
Temperature (°F):				Rainfa	ll (in.): Last 24 hours: (	Last 48 h	ours: 0			
Latitutde:			Longitu	ıde:		GPS Uni	t:		GPS LMK #:	
Camera: Nikon-						Photo #s	:			
Land Use in Drain	age Are	a (Check all th	at apply):							
☐ Industrial						Open	Space			
Ultra-Urban R	esidenti	al				☐ Instit	utional			
🔲 Suburban Resi	dential					Other: _				
☐ Commercial						Known I	ndustries:			
Notes (e.g, origin Tidal Water	of outf	fall, if known):	large crab	os, Min	nows, vegetation along c any trash h wetat plate	anal is sparso	e, trash on sid	le of canal, paper : いいしんかん	and plastic. of trast	fon tidel
Section 2: Outf					,					·
LOCATION	1	MAT	ERIAL		SH	APE		DIMENSIO	NS (IN.)	SUBMERGED
		□ RCP	☐ CM	ИP	☐ Circular	Single		Diameter/Dimen	sions:	In Water:
		□ PVC	□нг	OPE	☐ Eliptical	☐ Double				Partially
Closed Pipe		☐ Steel		i	☐ Box	☐ Triple				Fully
1,		Other:			Other:	Other:				With Sediment:
ĺ										☐ Partially ☐ Fully
		☐ Concrete			☐ Trapezoid			Depth:	·	
		☐ Earthen								
☐ Open drainage	е	☐ rip-rap			☐ Parabolic			Top Width:		
<u> </u>		Other:			Other:			Bottom Width: _		
☐ In-Stream		(applicable w	vhen colle	ecting :	samples)					
Flow Present?		☐ Yes		□ No	If No, Ski	p to Section	5	·		
Flow Description (If present)		☐ Trickle	∐ Мо	oderate	Substantial					
Section 3: Qua	ntitati	ive Charact	erizatio	n						
					FIELD DATA FOR F	LOWING (	OUTFALLS			
P	ARAMI	ETER			RESULT		ι	JNIT	EC	UIPMENT
☐Flow #1		Volume					]	Liter		
		Time to fill						Sec		
		Flow depth						ľn		
□Flow #2		Flow width		0, ,				Ft, In		
		Measured lengt		<u>0</u> , ,	, 		]	ft, In		
<u> </u>	Tamas	Time of travel		····				Sec °F		-
	Tempera pH		+				-L	I Units	Та	st strip/Probe
	Ammo	<del></del>						nom		Test strin

INDICATOR	CHECK if Present		DESCRIPTION	N		REI	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleu☐ Other:	m/gas	☐ I – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown         ☐ Gray           ☐ Orange         ☐ Red	☐ Yellow ☐Other:	1 Faint col sample bo		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 – Slight clo	oudiness	2 – Cloudy	3 – Opaque
Floatables		Sewage (7	Foilet Paper, etc.) Suds		☐ 1 – Few/sligh	ht; origin	2 - Some; indications of origin (e.g., possible suds or oil	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floatin
	ndicators for Bot		nd Non-Flowing Outfall		not obvious		sheen)	sanitary materials)
Trash!! otes: Potential tidal influ	ence due fo low tide	th Flowing at	nd Non-Flowing Outfalls					sanitary materials)
Trash!!  otes: Potential tidal influence  ction 5: Physical Ir  e physical indicator	ence due to low tide  ndicators for Bot s that are not relat	th Flowing at	nd Non-Flowing Outfalls	(If No, Skip to	Section 6)		sheen)	sanitary materials)
Trash!!  otes: Potential tidal influence  ction 5: Physical Interphysical indicator  INDICATOR	ence due fo low tide  ndicators for Bot s that are not relate  CHECK if F	th Flowing a ted to flow pr Present	nd Non-Flowing Outfalls resent? Yes No	DESCRIPTION  ipping  Peelin	Section 6)	sediment a	sheen)  COMMENT	sanitary materials)
Trash!!  otes: Potential tidal influence  ction 5: Physical Interphysical indicator  INDICATOR  Outfall Damage	ence due fo low tide  ndicators for Bot s that are not relat  CHECK if F	th Flowing a ted to flow pr Present	nd Non-Flowing Outfalls resent? Yes No	DESCRIPTION  ipping  Peelin	Section 6)	sediment a	sheen)  COMMENT	sanitary materials)
Trash!!  otes: Potential tidal influence  ction 5: Physical Ir  e physical indicator  INDICATOR  Outfall Damage  Deposits/Stains	ence due fo low tide  ndicators for Bot s that are not relat  CHECK if F	th Flowing a ted to flow pr Present	nd Non-Flowing Outfalls resent? Yes No Spalling, Cracking or Chi Corrosion	DESCRIPTION  ipping Peelin  Paint Other:	Section 6) 3 Paint Sheen	sediment a	sheen)  COMMENT	sanitary materials)

Section 1: Background Data

Subwatershed:					Outfall ID:	12-1 >>	P12-5	
Today's date:		7/40/17	٤		Time (Military):	1135		
Investigators:		MA AC	)		Form completed by:			
Temperature (°F):			Rainfa	all (in.): Last 24 hours: 0	Last 48 hours: 0			
Latitutde:			Longitude:		GPS Unit:		GPS LMK #:	
Camera: Nikon-					Photo #s:			
Land Use in Drain	age Are	a (Check all tha	t apply):					
☐ Industrial					Open Space			
Ultra-Urban Re	esidentia	al			☐ Institutional			
Suburban Resi	dential				Other:			
☐ Commercial					Known Industries:			
				nnows, vegetation along can $\mathcal{H}_{\circ\omega}$ , $\mathcal{M}_{\circ}$		de of canal, paper	and plastic.	
Section 2: Outf	all De	scription						
LOCATION	<u> </u>	MATE	RIAL	SHA	APE	DIMENSIO	ONS (IN.)	SUBMERGED
		☐ RCP	☐ CMP	☐ Circular	☐ Single	Diameter/Dimen	sions:	In Water:
		☐ PVC	☐ HDPE	☐ Eliptical	☐ Double	•		Partially
Closed Pipe		☐ Stee!		☐ Box	☐ Triple			☐ Fully
		Other:		☐ Other:	☐ Other:			With Sediment:
								☐ Partially ☐ Fully
		☐ Concrete		Transmid		Devile	•	
		☐ Earthen		☐ Trapezoid		Depth:		
Open drainage	•	☐ rip-rap		Parabolic		Top Width:		
		Other:		Other:		Bottom Width: _		
☐ In-Stream		(applicable w	hen collecting	samples)				
Flow Present?		☐ Yes	□ No	If No, Skij	p to Section 5			
Flow Description (If present)		☐ Trickle	☐ Moderate	e 🗌 Substantial				:
Section 3: Qua	ntitati	ve Characte	rization					
				FIELD DATA FOR FI	LOWING OUTFALLS			
P/	ARAME	TER		RESULT	ι	JNIT	EC	QUIPMENT
□Flow #1		Volume		· · · · · · · · · · · · · · · · · · ·		Liter		
		Time to fill				Sec		
		Flow depth				In	:	
□Flow #2		Flow width		99 99		Ft, In		
		Measured length Time of travel	<u> </u>			Ft, In Sec		
	Tempera					ok.		
	рН				Ig	I Units	Te	st strip/Probe
	Ammo					ppm		Test strip

INDICATOR	CHECK if Present	DESCRIPTION				RELATIVE SEVERITY INDEX (1-3)		
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petro	eum/gas	☐ I – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	1 – Faint cold sample bot		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severi	у	☐ 1 – Slight cloudiness		2 – Cloudy	☐ 3 – Opaque
T14-1-1		D C					2 – Some; indications	3 - Some; origin clear
Floatables -Does Not Include Trash!!  tes: Potential tidal influe		Petroleum			1 - Few/sligh	nt; origin	of origin (e.g., possible suds or oil sheen)	(e.g., obvious oil
-Does Not Include Trash!! tes: Potential tidal influe	ence due to low tide	Petroleum	nd Non-Flowing Outfi	ılls	not obvious	nt; origin	of origin (e.g., possible suds or oil	(e.g., obvious oil sheen, suds, or floating sanitary materials)
-Does Not Include Trash!!  tes: Potential tidal influe  ction 5: Physical In  e physical indicators	dicators for Bot that are not related	Petroleum	nd Non-Flowing Outfi	alls No (If No, Skip to DESCRIPTION	not obvious Section 6)	nt; origin	of origin (e.g., possible suds or oil sheen)	(e.g., obvious oil sheen, suds, or floating sanitary materials)
-Does Not Include Trash!!  tes: Potential tidal influe  etion 5: Physical In  e physical indicators  INDICATOR	dicators for Bot that are not related	Petroleum	nd Non-Flowing Outfaresent? Yes	No (If No, Skip to  DESCRIPTION  Chipping   Peeling	not obvious Section 6)	sediment a	of origin (e.g., possible suds or oil sheen)  COMMENT	(e.g., obvious oil sheen, suds, or floating sanitary materials)
-Does Not Include Trash!!  tes: Potential tidal influe  etion 5: Physical In  e physical indicators  INDICATOR  Outfall Damage	dicators for Bot that are not related CHECK if F	Petroleum	nd Non-Flowing Outfiresent? Yes Spalling, Cracking or Corrosion	Alls No (If No, Skip to DESCRIPTION Chipping Peeling Paint Other:	not obvious Section 6)		of origin (e.g., possible suds or oil sheen)  COMMENT	(e.g., obvious oil sheen, suds, or floating sanitary materials)
-Does Not Include Trash!!  tes: Potential tidal influe  ction 5: Physical In e physical indicators  INDICATOR  Outfall Damage  Deposits/Stains	dicators for Bots that are not related CHECK if F	Petroleum	nd Non-Flowing Outforesent? Yes Spalling, Cracking or Corrosion Oily Flow Line	Alls No (If No, Skip to DESCRIPTION Chipping Peeling Paint Other:	not obvious  Section 6)  Paint		of origin (e.g., possible suds or oil sheen)  COMMENT	(e.g., obvious oil sheen, suds, or floating sanitary materials)

ection 1: Back	ground I	)ata							
Subwatershed:			·		Outfall ID:	Pe	22 - 60T	- Pas	POJ-UT
Today's date:	•	7/14/12	_		Time (Mili	itary):	1145		POJ-UT
Investigators:					Form comp	pleted by:	·		
Temperature (°F):			Rainfa	ıll (in.): Last 24 hours: 0	Last 48 hou	ırs: 0			
Latitutde:			Longitude:		GPS Unit:			GPS LMK #:	
Camera: Nikon-					Photo #s:				
Land Use in Drain	nage Area (C	heck all that	apply):						
☐ Industrial					Open S	pace			
☐ Ultra-Urban Re	esidential				☐ Institut	ional			
☐ Suburban Resi	dential				Other:				
☐ Commercial					Known Inc	lustries:			
Section 2: Outf	flow sheet	hdica pos-03	rge crabs, Mir	nnows, vegetation along co pense light by 5-82 had ag	anal is sparse, libby of screetse	trash on sid Sedin ovHz	de of canal, paper	and plastic.	ocrleing lot
LOCATION	1	MATE	RIAL	SHA	APE		DIMENSIO	NS (IN.)	SUBMERGED
		RCP	□СМР	☐ Circular	☐ Single		Diameter/Dimen	sions:	In Water:
		PVC	☐ HDPE	☐ Eliptical	☐ Double				☐ No ☐ Partially
Closed Pipe		Steel		☐ Box	☐ Triple				Fully
		Other:		☐ Other:	Other:				With Sediment:
									☐ Partially ☐ Fully
		Concrete							
		Earthen		☐ Trapezoid			Depth:		
Open drainage		rip-rap		☐ Parabolic			Top Width:	<del></del>	
		Other:		☐ Other:			Bottom Width: _		
In-Stream			en collecting	comples)	<del></del>				
Flow Present?		Yes	□ No		p to Section 5				
Flow Description (If present)		Trickle	☐ Moderate						
Section 3: Qua	ntitative (	Characte	rization						
				FIELD DATA FOR FI	LOWING OL	JTFALLS			
P	ARAMETEI	R		RESULT		ι	JNIT	E	QUIPMENT
□r141	,	Volume				]	Liter		
∏Flow #1	Ti	me to fill					Sec		
	Flo	ow depth					In		
□Flow #2	Flo	ow width	<u>O</u> '	"		I	Ft, In		
ι ιον π <i>2</i>	Meas	sured length	0,	**		I	Ft, In		
	Tim	ne of travel					Sec		
, ,,,	Temperature	: 					°F		
<del></del>	pН					pŀ	I Units	Te	est strip/Probe
	Ammonia					·	ppm		Test strip

INDICATOR	CHECK if Present		DESCRIPTION	ı		REL	ATIVE SEVERITY INDEX	(1-3)
Odor		_	Rancid/sour Petroleum Other:	√gas	1 – Faint	·	2 – Easily detected	3 – Noticeable from a distance
Color			Brown Gray Orange Red	☐ Yellow ☐Other:	☐ 1 — Faint cold sample bot		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 – Slight clo	oudiness	2 – Cloudy	☐ 3 – Opaque
Floatables		Sewage (Toilet	Paper, etc.) Suds		☐ 1 – Few/sligh	nt; origin	2 – Some; indications of origin (e.g., possible suds or oil	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floatin
	dicators for Bot		Non-Flowing Outfalls		not obvious		sheen)	sanitary materials)
Trash!! otes: Potential tidal influe	ence due to low tide	th Flowing and N	Non-Flowing Outfalls	(If No, Skip to S DESCRIPTION			1 -	sanitary materials)
Trash!! otes: Potential tidal influence oction 5: Physical Ir re physical indicator	ence due to low tide  adicators for Bot  s that are not relat	th Flowing and N	Non-Flowing Outfalls	(If No, Skip to S	Section 6)		sheen)	sanitary materials)
Trash!! otes: Potential tidal influence oction 5: Physical Ir re physical indicator: INDICATOR	ence due to low tide  adicators for Bot s that are not related CHECK if F	th Flowing and N ted to flow preser	Non-Flowing Outfalls nt? Yes No  Spalling, Cracking or Chip Corrosion	(If No, Skip to S DESCRIPTION  pping ☐ Peeling F	Section 6)	sediment a	sheen)  COMMENT	sanitary materials)
Trash!! otes: Potential tidal influence oction 5: Physical Interphysical indicators INDICATOR Outfall Damage	ence due to low tide  adicators for Bot s that are not rela  CHECK if F	th Flowing and Noted to flow present	Non-Flowing Outfalls nt? Yes No  Spalling, Cracking or Chip Corrosion	(If No, Skip to S DESCRIPTION  pping ☐ Peeling F	Section 6)	sediment a	sheen)  COMMENT	sanitary materials)
Trash!!  otes: Potential tidal influence  oction 5: Physical Ir  re physical indicators  INDICATOR  Outfall Damage  Deposits/Stains	adicators for Bots that are not related CHECK if F	th Flowing and N ted to flow preser  Present	Non-Flowing Outfalls nt? Yes No  Spalling, Cracking or Chip Corrosion  Dily Flow Line F  Excessive Inhibited  Odors Colors	(If No, Skip to S DESCRIPTION  pping ☐ Peeling F Paint ☐ Other: ☐ Floatables ☐ Oil Si	Section 6) Paint	sediment a	sheen)  COMMENT	sanitary materials)

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Back	groui	nd Data						
Subwatershed:						16-01		
Today's date:	7/6	112			Time (Military):			
Investigators:	ofin	<i>I</i>			Form completed by	: 7W		
Temperature (°F):	- <u>-</u>		Rainfa	all (in.): Last 24 hours: (	Last 48 hours: 0			
Latitutde:		Lor	ngitude:		GPS Unit:		GPS LMK #:	<u> </u>
Camera: Nikon-					Photo #s:			
Land Use in Drain	age Are	ea (Check all that app	oly):					
☐ Industrial					☐ Open Space			
Ultra-Urban R	esidenti	al			☐ Institutional			
Suburban Resi	idential				Other:			
☐ Commercial								
Notes (e.g, origin	n of out	fall, if known): large	crabs, Mi	nnows, vegetation along c				
• =					•	• •	•	
								·
Section 2: Outf						1	· • · · ·	· <del>r-</del>
LOCATION	4	MATERIA			APE	DIMENSIO		SUBMERGED
			] CMP	Circular	Single	Diameter/Dimens	sions:	In Water. No
		Z PVC [	HDPE	☐ Eliptical	☐ Double	18"		Partially Fully
Closed Pipe		☐ Steel		☐ Box	Triple			
		Other:		☐ Other:	Other:			With Sediment:
								☐ Partially ☐ Fully
		☐ Concrete						
		☐ Earthen		☐ Trapezoid		Depth:		
Open drainage	e	☐ rip-rap		☐ Parabolic		Top Width:	_	
				☐ Other:		Bottom Width:		
☐ In-Stream		Other:	callecting	las)				
Flow Present?		Yes	No		ip to Section 5			
Flow Description			/		р to section 5			
(If present)		Trickle	Moderate	e 🔲 Substantial				
Section 3: Aug	ntitati	ive Characteriz	etion					
Section 5. Qua	писае	ive Characteriza	REIOH	FIELD DATA FOR F	LOWING OUTFALLS			•,
P	ARAMI	 ETER		RESULT		UNIT	E(	QUIPMENT
		Volume	+			Liter		
∏Flow#1		Time to fill				Sec		
		Flow depth				In		
□		Flow width	0,	22		Ft, In		
☐Flow #2	ı	Measured length	<u>0</u> '	27		Ft, In		·· · · · · · · · · · · · · · ·
ļ		Time of travel				Sec		
1	Tempera	iture				°F		
	pН				I	H Units	Te	st strip/Probe
	Ammo	nia				ppm		Test strip

INDICATOR	CHECK if Present		DESCRIPTION			REI	ATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:		1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	•	Yellow Other:	☐ 1 — Faint colo sample bott		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 — Slight clo	udiness	2 - Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	ď	Sewage (	Toilet Paper, etc.) Suds	15	1 – Few/sligh	t; origin	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)
otes: Potential tidal influ	ence due to low tide				l.		,	
INDICATOR	CHECK if F	resent		CRIPTION  Peeling Pain	ıt		COMMENT	·s
				l Dealine Dain	rt .			
Outfall Damage			Spalling, Cracking or Chipping Corrosion	Peeling Pain				
Outfall Damage  Deposits/Stains			Spalling, Cracking or Chipping Corrosion  Oily Flow Line Paint	,		sediment a	and algae	
	<u>d</u>		Corrosion			sediment a	and algae	
Deposits/Stains		K	☐ Corrosion ☐ Oily ☐ Flow Line ☐ Paint ☐ Excessive ☐ Inhibited	Tother: Sed	renf	sediment a	und algae	
Deposits/Stains Abnormal Vegetation	<u>d</u>	<u> </u>	Corrosion  Oily Flow Line Paint  Excessive Inhibited  Odors Excessive Algae	Tother: Sed	renf	sediment a	und algae	

Section 1: Back	grour	nd Data						
Subwatershed:					Outfall ID:	35-05		
/Today's date:	7/8	1/12			Time (Military):	1034		
Investigators:	130	J			Form completed b	y: 7W		
Temperature (°F):			Rainf	all (in.): Last 24 hours: (	Last 48 hours: 0			
Latitutde:		Lon	gitude:		GPS Unit:		GPS LMK #	•
Camera: Nikon-					Photo #s:		·	
Land Use in Drain	age Are	ea (Check all that app	ly):		<u> </u>			
☐ Industrial					Open Space			
Ultra-Urban Re	esidenti	ial						
☐ Suburban Resid	dential				Other:			
Commercial					Known Industries:			
Notes (e.g, origin			rabs, Mi	nnows, vegetation along c	anal is sparse, trash on	side of canal, paper	and plastic.	-
LOCATION		MATERIA	 L	/ SH	APE /	DIMENSIO	ONS (IN.)	SUBMERGED
		□ RCP □	СМР	Circular	Single	Diameter/Dimer		In Water:
			HDPE	☐ Eliptical	☐ Double	24"	<del></del>	☐ No ☐ Partially
Closed Pipe		☐ Steel		☐ Box	☐ Triple			☐ Fully
,		Other:	_	Other:	Other:			With Sediment:  ☐ No ☐ Partially ☐ Fully
		Concrete		<u>                                     </u>				Li Funy
		☐ Earthen		☐ Trapezoid		Depth:		
Open drainage	3			☐ Parabolic		Top Width:		
		☐ rip-rap		☐ Other:		Bottom Width:		
		Other:					<del></del>	
☐ In-Stream		(applicable when c						
Flow Present?		☐ Yes	Nο	If No, Ski	p to Section 5			
Flow Description (If present)	·	☐ Trickle	Moderate	e Substantial				
Section 3: Quar	ntitati	ive Characteriza	tion					
<u> </u>			<del></del>	FIELD DATA FOR F	LOWING OUTFALL	s		
P#	ARAMI	ETER		RESULT		UNIT	E	QUIPMENT
□Flow#1		Volume	<u> </u>			Liter		
		Time to fill		gal min		Sec		
		Flow depth		0 /		In		
□Flow #2		Flow width		"		Ft, In		
	ı	Measured length	0,	"	TOT WILL !	Ft, In		
Į		Time of travel				Sec		
; <u>T</u>	Fempera	ature	<u> </u>			°F		
	pН		_			pH Units	Te	st strip/Probe
	Ammo	nia				ppm		Test strip

INDICATOR	CHECK if Present			ESCRIPTION	I		REL	ATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage	☐ Rancid/so☐ Other:	ur 🗌 Petroleun	n/gas	☐ 1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear	☐ Brown ☐ Orange	☐ Gray ☐ Red	☐ Yellow ☐Other:	1 Faint col		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity				See severity		1 - Slight clo	oudiness	2 - Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!		☐ Sewage (7	Toilet Paper, etc.)	Suds		1 Few/sligi	ht; origin	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floatir sanitary materials)
otes: Potential tidal influ	ence due to low tide	1				·			
ection 5: Physical In re physical indicator: INDICATOR		ted to flow p		Yes No	(If No, Skip to	Section 6)		COMMENT	rs
Outfall Damage			☐ Spalling, Corrosion	Cracking or Chip	pping Peeling	Paint			
Deposits/Stains			☐ Oily ☐ F	low Line 🔲 l	Paint		sediment a	and algae	
Abnormal Vegetation			☐ Excessive	☐ Inhibited				/	
Poor pool quality			Odors Suds	Colors Excessive A	☐ Floatables ☐ Oil Salgae ☐ Othe		Heal	thy 63h	
Pipe benthic growth	<u> </u>		Brown	☐ Orange	Green Othe	r:			
ection 6: Overall Ou	ıtfall Characteri	zation							
Unlikely	Potential (prese	ence of two o	r more indica	tors)	Suspect (one or mo	re indicators with	a severity o	of 3) Dovious	
ection 7: Any Non-I	llicit Discharge (	Concerns (e.	g., trash or n	eeded infras	tructure repairs)?				
Chased of 3 manhale 1: muhole 2 Dain in p- and I cain in	tream		<b>6</b> -,		, .				
manhale 1:	flow present		a A Phila						
Ambele 2	: An proxu	サイン	mate on						
Dain in p-	lot: foo h	my		\	S cal				
and ) rain in	glots day	~ أرا	S 4V	, peeter	", afiltation f	rom craces	Bite.		

Section 1: Back	kground	l Data						
Subwatershed:	<i>f</i> ,	;			Outfall ID: P7	5-03		
Today's date:	1/6	/12			Time (Military):	<del>`</del>	56	
Investigators:	/				Form completed by	r: 54		
Temperature (°F):	:		Rainfa	all (in.): Last 24 hours: 0	Last 48 hours: 0		•	
Latitutde:		Long	itude:		GPS Unit:		GPS LMK #	<u> </u>
Camera: Nikon-		<u>.</u> .		·	Photo #s:			
Land Use in Drain	nage Area	(Check all that apply	y):					
☐ Industrial					Open Space			
Ultra-Urban R	Residential				☐ Institutional			
Suburban Resi	idential				Other:			
Commercial					Known Industries:			
Section 2: Out			aos, win	nnows, vegetation along ca	mai is sparse, trasit on	side of canar, pape	r and plastic.	
LOCATION	N	MATERIAL		SHA	APE _	DIMENSI	ONS (IN.)	SUBMERGED
	I	RCP 🗆	CMP	Circular	Single	Diameter/Dime	nsions:	In Water:
	l	□ PVC □ 1	HDPE	☐ Eliptical	☐ Double	36	<u>-</u>	☐ No ☐ Partially
Closed Pipe		☐ Steel		☐ Box	☐ Triple			Fully
•	ا	Other:		Other:	☐ Other:			With Sediment:
								Partially Fully
		Concrete		☐ Trapezoid		Donatha		
<b>7</b> 0		■ Earthen				Depth:		
Open drainage		☐ rip-rap		☐ Parabolic		Top Width:		
	1,	Other:		Other:		Bottom Width:		
In-Stream		(applicable when co	llecting	samples)				
Flow Present?		Yes ?	□ No		o to Section 5	Astray ma	ndote ->	105
Flow Description (If present)			Moderat				more y	
Section 3: Qua	ıntitativ	e Characterizat	ion					
				FIELD DATA FOR FI	OWING OUTFALLS	5		
P	ARAMET	ER		RESULT		UNIT	E	QUIPMENT
∏Flow #1		Volume				Liter		
		Time to fill	5	gal/ain		Sec		
		Flow depth		<u>U / </u>		In		_
□Flow #2		Flow width	<u> </u>	"		Ft, In		·
	<del></del>	easured length	0,	**		Ft, In		
		ime of travel	<u> </u>			Sec		
······································	Temperatu	ıre				°F		
	pН		<del> </del>		I	H Units	T	est strip/Probe
	Ammoni	a				<b>pp</b> m		Test strip

INDICATOR	CHECK if Present		DESCRIPTION		RE	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	Faint		2 – Easily detected	☐ 3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	1 Faint cole		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity	Ø		See severity	☑ 1 Slight clo	udiness	2 - Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	d		Toilet Paper, etc.) Suds n (oil sheen) Other: Other	1 – Few/slight	nt; 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)
otes: Potential tidal influen	ce due to low tide			<del></del> .			
ection 5: Physical Inc re physical indicators			and Non-Flowing Outfalls  oresent? Yes No (If No., Skip to S	Section 6)			
INDICATOR	CHECK if F	resent	DESCRIPTION			COMMEN	rs
Outfall Damage			☐ Spalling, Cracking or Chipping ☐ Peeling F☐ Corrosion	Paint			
Deposits/Stains			☐ Oily ☐ Flow Line ☐ Paint ☐ Other:		sediment a	and algae	
Abnormal Vegetation		/	☐ Excessive ☐ Inhibited				
Poor pool quality	ď		☐ Odors ☐ Colors ☐ Floatables ☐ Oil St☐ Suds ☐ Excessive Algae ☐ Other				_
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other	•			
ection 6: Overall Out	fall Characteri	zation					
			or more indicators) Suspect (one or more	e indicators with a	severity o	of 3) Dovious	
ection 7: Any Non-Ill	icit Discharge	Concerns (e	.g., trash or needed infrastructure repairs)?				
1st marbit	is Sgalle	in perca	(lum odol (2), some delois	11			
2nd namble	" 4-5m	etion, S	es, trash or needed intrastructure repairs)?  Selve de bool  Selve	edilment Jepi	sits,		
`			^				

section 1: Back	grour	ia pata				711-1		
Subwatershed:	$\sim$ 1				Outfall ID:	34-06		
Today's date:		6/12			Time (Military):			
Investigators:	<b>ク</b> む				Form completed by	1: 5U		
Temperature (°F):			Rainfa	all (in.): Last 24 hours: 0	Last 48 hours: 0			
Latitutde:		1	Longitude:		GPS Unit:		GPS LMK #	:
Camera: Nikon-					Photo #s;			
Land Use in Drain	age Are	ea (Check all that	apply):					
☐ Industrial					Open Space			
Ultra-Urban R	esidenti	al			☐ Institutional			
Suburban Resi	dential				Other:			
Commercial					Known Industries:			
Notes (e.g, origin	n of outi	fall, if known): lar	rge crabs, Mir	nnows, vegetation along ca	anal is sparse, trash on	side of canal, paper	and plastic.	
Section 2: Outf	all De	scription	(04)	not see aut for	<u>.                                     </u>		·	<del></del>
LOCATION		MATER		SHA		DIMENSI	ONS (IN.)	SUBMERGED
		□ RCP	□СМР	☐ Circular	Single	Diameter/Dime	nsions:	In Water:
		□ PVC	☐ HDPE	☐ Eliptical	☐ Double			☐ No ☐ Partially
Closed Pipe		☐ Steel		□ Box	☐ Triple			☐ Fully
•		Other:		☐ Other:	☐ Other:			With Sediment: ☐ No
								Partially Fully
		☐ Concrete		☐ Trapezoid		Danth		
		☐ Earthen		_		Depth:		
Open drainage	•	☐ rip-rap		Parabolic		Top Width:		
		Other:		Other:		Bottom Width:	<del></del>	
☐ In-Stream		(applicable wh	en collecting	şamples)				
Flow Present?		☐ Yes	I⊋ No		p to Section 5			
Flow Description (If present)		☐ Trickle	☐ Moderate					
Section 3: Qua	ntitati	ive Character	rization					
				FIELD DATA FOR F	LOWING OUTFALL	s	·····	
P/	ARAMI	ETER		RESULT		UNIT	E	QUIPMENT
∏Flow#1		Volume				Liter		
<u> </u>		Time to fill				Sec		
		Flow depth				In		
☐Flow #2		Flow width	<u>~</u>			Ft, In		
	]	Measured length	0,	"		Ft, In		
		Time of travel				Sec		
<u>-</u>	rempera	ature				°F		
<u> </u>	pН					pH Units	To	est strip/Probe
	Ammo	nia				ppm		Test strip

INDICATOR	CHECK if Present		DESCRIPTION	I		REI	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleun☐ Other:	n/gas	1 – Faint		2 – Easily detected	3 - Noticeable from a distance
Color		☐ Clear	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	1 – Faint col-		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 – Slight clo	oudiness	2 - Cloudy	☐ 3 – Opaque
Floatables -Does Not Include		Sewage (	Toilet Paper, etc.) Suds		☐ 1 – Few/slight	nt; 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)
	ndicators for Bot		and Non-Flowing Outfalls					
otes: Potential tidal influ	ndicators for Bot	ted to flow p	resent? Yes No		Section 6)		COMMENT	TS .
otes: Potential tidal influection 5: Physical In	ndicators for Bot s that are not rela	ted to flow p	resent? Yes No	(If No, Skip to				rs
fotes: Potential tidal influ ection 5: Physical In re physical indicator INDICATOR	ndicators for Bot s that are not rela CHECK if I	ted to flow p	resent? Yes No  Spalling, Cracking or Chip Corrosion	(If No, Skip to		sediment a	COMMENT	TS .
fotes: Potential tidal influenction 5: Physical Interphysical indicator INDICATOR Outfall Damage	ndicators for Bots that are not rela	ted to flow p	resent? Yes No  Spalling, Cracking or Chip Corrosion	OESCRIPTION  Oping Peeling		sediment a	COMMENT	TS .
otes: Potential tidal influenction 5: Physical Interphysical indicator INDICATOR Outfall Damage Deposits/Stains	ndicators for Bots that are not rela  CHECK if I	ted to flow p	resent? Yes No  Spalling, Cracking or Chip Corrosion Oily Flow Line	OESCRIPTION  Oping Peeling  Paint Other:	Paint	sediment a	COMMENT	TS .
fotes: Potential tidal influenction 5: Physical Interphysical indicator INDICATOR Outfall Damage Deposits/Stains Abnormal Vegetation	ndicators for Bots that are not rela  CHECK if I	ted to flow p	Yes   No   No   No   No   No   No   No   N	OESCRIPTION  Oping Peeling  Paint Other:	Paint heen r:	sediment a	COMMENT	TS .

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

When when how how

Section 1: Back	kgroui	id Data						
Subwatershed:					Outfall ID: \$734	1-03		
Today's date:	7/6	1/12			Time (Military):	1120		
Investigators:					Form completed by	ラン		
Temperature (°F):	:	-	Rainfa	all (in.): Last 24 hours: 0	Last 48 hours: 0			
Latitutde:		L	ongitude:		GPS Unit:	G	PS LMK #:	
Camera: Nikon-					Photo #s:			
Land Use in Drain	nage Are	ea (Check all that ap	pply):					
☐ Industrial					Open Space			
Ultra-Urban R	tesidenti	al			☐ Institutional			
Suburban Res	idential				Other:			<del></del>
Commercial					Known Industries:			
Notes (e.g, origin	n of out	fall, if known): larg	e crabs, Mir	nnows, vegetation along ca	anal is sparse, trash on	side of canal, paper and	plastic.	
Section 2: Out				ream drain				
LOCATION	N	MATERI	AL	SH/	APE /	DIMENSIONS	5 (IN.)	SUBMERGED
		□ RCP [	CMP	☐ Circular	☐ Single	Diameter/Dimension	ns:	In Water:
		□ PVC [	HDPE	☐ Eliptical	☐ Double		_	Partially  Fully
Closed Pipe		☐ Steel		□Вох	☐ Triple			With Sediment:
		Other:		Other:	☐ Other:			No Partially
		☐ Concrete		_				
		☐ Earthen		☐ Trapezoid		Depth:		
Open drainage	e	☐ rip-rap		☐ Parabolic		Top Width:		
		☐ Other:		☐ Other:		Bottom Width:		
☐ In-Stream		(applicable wher		samples)				
Flow Present?		Yes			o to Section 5			
Flow Description (If present)			Moderate					
Section 3: Oua	ntitati	ive Characteriz	zation					
				FIELD DATA FOR F	LOWING OUTFALLS	6		
P.	ARAMI	ETER		RESULT		UNIT	EC	UIPMENT
		Volume				Liter		
☐Flow#I		Time to fill				Sec		
		Flow depth				In		
□Flow #2		Flow width	<u>0</u> '	"		Ft, In		
1.70M #2	1	Measured length	0'	229		Ft, In		
·		Time of travel				Sec		
	Tempera	ature				°F		-
	pН			-	F	H Units	Te	st strip/Probe
	Ammo	nia				ppm		Test strip

INDICATOR	CHECK if Present		DESCRIPTION	ı		REL	ATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleur☐ Other:	n/gas	☐ 1 — Faint		☐ 2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	☐ 1 – Faint colors i sample bottle		2 - Clearly visible in sample bottle	3 Clearly visible in outfall flow
Turbidity			See severity		☐ 1 – Slight clouding	iness	2 Cloudy	3 - Opaque
Floatables		Sewage (	Toilet Paper, etc.)   Suds		☐ 1 Few/slight; o	nrioin	2 – Some; indications of origin (e.g.,	3 - Some; origin clear (e.g., obvious oil
-Does Not Include Trash!!  tes: Potential tidal influence  ction 5: Physical In		☐ Petroleun			not obvious		possible suds or oil sheen)	
Trash!! tes: Potential tidal influ	ence due to low tide	Petroleum	and Non-Flowing Outfalls bresent? Yes No		not obvious	, , , , , , , , , , , , , , , , , , ,	possible suds or oil	sheen, suds, or floating sanitary materials)
Trash!!  tes: Potential tidal influence  ction 5: Physical Inception of the physical indicator	adicators for Bot s that are not related	Petroleum	and Non-Flowing Outfalls bresent? Yes No	(If No, Skip to Se	not obvious  ction 6)		possible suds or oil sheen)	sheen, suds, or floating sanitary materials)
Trash!!  tes: Potential tidal influence  tion 5: Physical Ince physical indicator  INDICATOR	adicators for Bots that are not rela	Petroleum	n (oil sheen)	(If No, Skip to Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Seco	not obvious  ction 6)	sediment	possible suds or oil sheen)  COMMENT	sheen, suds, or floating sanitary materials)
Trash!!  tes: Potential tidal influence  ction 5: Physical Inc.  physical indicator  INDICATOR  Outfall Damage	adicators for Bots that are not related CHECK if F	Petroleum	n (oil sheen)	(If No, Skip to Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Seco	not obvious  ction 6)		possible suds or oil sheen)  COMMENT	sheen, suds, or floating sanitary materials)
Trash!!  tes: Potential tidal influence  tion 5: Physical Interphysical indicator  INDICATOR  Outfall Damage  Deposits/Stains	adicators for Bots that are not related CHECK if F	Petroleum	n (oil sheen)	(If No, Skip to Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Secondary Control of the Seco	not obvious  ction 6)		possible suds or oil sheen)  COMMENT	sheen, suds, or floating sanitary materials)

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Back	groun	d Data						****
Subwatershed:					Outfall ID:	34-02		
Today's date:	7/6	1/12			Time (Military):	121		
Investigators:	- (	<del>/                                    </del>			Form completed	by:		
Temperature (°F):			Rainfa	all (in.): Last 24 hours: 0	Last 48 hours: 0			
Latitutde:		Lo	igitude:		GPS Unit:		GPS LMK #	:
Camera: Nikon-					Photo #s:			
Land Use in Drains	age Are	a (Check all that ap	oly):					
☐ Industrial					Open Space			
Ultra-Urban Re	esidentia	ս			☐ Institutional			
Suburban Resid	dential				Other:			
Commercial					Known Industries	s:		
•	of outf	all, if known): large	crabs, Mi	nnows, vegetation along ca	unal is sparse, trash o	n side of canal, paper a	and plastic.	
,					-			
			10	N. 3 /				
Section 2: Outf				an drain only				T
LOCATION	·	MATERI		/ _{SH}		DIMENSIO		SUBMERGED
			CMP	☐ Circular	Single	Diameter/Dimens	sions:	In Water: ☐ No
		□PVC [	] HDPE	☐ Eliptical	☐ Double			☐ Partially ☐ Fully
Closed Pipe		☐ Steel		☐ Box	☐ Triple			With Sediment:
<b>`</b>		Other:		Other:	☐ Other:			☐ No ☐ Partially
1		:						Fully
		☐ Concrete				2		
_		☐ Earthen		☐ Trapezoid		Depth:		
Open drainage	•	☐ rip-rap		☐ Parabolic		Top Width:		
		☐ Other:		Other:		Bottom Width: _		
☐ In-Stream		(applicable when	collecting	samples)				
Flow Present?		☐ Yes	Ø No	<u> </u>	p to Section 5			
Flow Description			] Moderat	e Substantial				
(If present)			] ivioueiai	e Substantial			- · · · · · · · · · · · · · · · · · · ·	
Section 3: Quar	ntitati	ve Characteriz	ation					
			:	FIELD DATA FOR F	LOWING OUTFAL	LS		
P/	ARAMI	TER		RESULT		UNIT	E	QUIPMENT
□ Flow #1		Volume				Liter		
□Flow#1		Time to fill				Sec		
		Flow depth				In		
□Flow #2		Flow width	<u>0</u> '	***		Ft, In		
	1	Measured length	0'	"		Ft, In		
1		Time of travel				Sec		
1	Temperature					°F		
	pН			-		pH Units	T	est strip/Probe
1	A mmo	nia	1		l	nom		Test strip

INDICATOR	CHECK if Present		DESCRIPTION			REI	ATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleum/g	gas	☐ 1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Orange ☐ Red ☐ Other: sample bottle			2 Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity			oudiness	2 – Cloudy	3 – Opaque
Floatables	_	☐ Sewage (	Toilet Paper, etc.)   Suds	1 Few/sligh	nt; origin	2 - Some; indications of origin (e.g.,	3 - Some; origin clear (e.g., obvious oil	
	dicators for Bo		and Non-Flowing Outfalls		not obvious		possible suds or oil sheen)	
Trash!! tes: Potential tidal influe	nce due to low tide	th Flowing a	and Non-Flowing Outfalls resent? Yes No	(If No, Skip to	not obvious		1 -	sheen, suds, or floatin sanitary materials)
Trash!!  tes: Potential tidal influe  ction 5: Physical In  physical indicators	nce due to low tide dicators for Bot that are not rela	th Flowing a	and Non-Flowing Outfalls resent? Yes No	SCRIPTION	not obvious  Section 6)		sheen)	sheen, suds, or floatin sanitary materials)
tes: Potential tidal influences: Physical Incephysical indicators INDICATOR	dicators for Bot that are not rela	th Flowing a	and Non-Flowing Outfalls resent? Yes No	SCRIPTION  ng Peeling	not obvious  Section 6)	sediment a	sheen)  COMMENT	sheen, suds, or floatin sanitary materials)
tes: Potential tidal influence of the physical indicators  INDICATOR  Outfall Damage	dicators for Bot that are not rela	th Flowing a	and Non-Flowing Outfalls resent? Yes No  DE:  Spalling, Cracking or Chippin Corrosion	SCRIPTION  ng Peeling	not obvious  Section 6)	sediment a	sheen)  COMMENT	sheen, suds, or floatin sanitary materials)
tes: Potential tidal influence of the physical indicators INDICATOR Outfall Damage Deposits/Stains	dicators for Bot that are not rela	th Flowing a	and Non-Flowing Outfalls resent? Yes No  DE:  Spalling, Cracking or Chippin Corrosion Oily Flow Line Pain Excessive Inhibited	ng Peeling  nt Other:	not obvious  Section 6)  Paint	sediment a	sheen)  COMMENT	sheen, suds, or floatin sanitary materials)

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Back	ground Data						
Subwatershed:				Outfall ID:	74-04		
Today's date:	7/6/12			Time (Military):	1122		
Investigators:	- · ( !			Form completed by	y: JW		
Temperature (°F):		Rainf	fall (in.): Last 24 hours: 0	Last 48 hours: 0			
Latitutde:		Longitude:		GPS Unit:		GPS LMK #	:
Camera: Nikon-				Photo #s:			
Land Use in Drain	age Area (Check all th	iat apply):					
☐ Industrial				Open Space			
Ultra-Urban Re	esidential			Institutional			
Suburban Resid	dential			Other:			
☐ Commercial				Known Industries:			
Notes (e.g, origir	of outfall, if known):	large crabs, Mi	nnows, vegetation along ca			and plastic.	·
· - I		_	· •	-	• •	•	
				t- > ant.	<u></u>		
Section 2: Outf	1 -		great de SHA	ion ory	<del></del>		<del></del>
LOCATION	· ·	ERIAL			DIMENSIO		SUBMERGED
	☐ RCP	☐ CMP		☐ Single	Diameter/Dimens	sions:	In Water:
	□ PVC	☐ HDPE	☐ Eliptical	☐ Double		<del></del>	☐ Partially ☐ Fully
Closed Pipe	☐ Steel		Вох	☐ Triple			With Sediment:
	Other:		☐ Other:	☐ Other:			☐ No
Í				l			☐ Partially ☐ Fully
	☐ Concrete					<u> </u>	
	☐ Earthen		☐ Trapezoid		Depth:		
Open drainage	: ☐ rip-rap		☐ Parabolic		Top Width:	_	
	Other:		Other:		Bottom Width: _		
☐ In-Stream		when collecting	  samples				
Flow Present?	☐ Yes	□No	· · · · · · · · · · · · · · · · · · ·	p to Section 5			,
Flow Description (If present)	☐ Trickle	☐ Moderat		, , , , , , , , , , , , , , , , , , , ,			
Section 3: One	ntitative Charact	ization					· · · · · · · · · · · · · · · · · · ·
Section 2. Ages	HHRUYE CHARACE	erization	FIELD DATA FOR FL	OWING OUTFALL	<u> </u>	<del></del>	
P/	ARAMETER		RESULT		UNIT	E(	QUIPMENT
	Volume	-			Liter		2001
□Flow#1	Time to fill				Sec	<del></del>	·
	Flow depth				In		
	Flow width	<u>0</u> '	79		Ft, In		
□Flow #2	Measured lengt	th <u>0</u> '	>>		Ft, In		
[]	Time of travel	i			Sec		
T	Temperature				°F		
	рН			I	pH Units Test strip/Probe		
	Ammonia	_			ppm		Test strip

Section 4: Physical In Are Any Physical Indica				(If No,	Skip to Section .	5)				
INDICATOR	CHECK if Present		ı	DESCRIPTION	ı			REL	ATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/s	our Petroleur	n/gas		☐ 1 – Faint		2 – Easily detected	☐ 3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Orange ☐ Red ☐ Other:			☐ 1 — Faint cold sample bot		2 - Clearly visible in sample bottle	3 Clearly visible in outfall flow	
Turbidity			See severity			oudiness	2 – Cloudy	3 – Opaque		
Floatables -Does Not Include Trash!!		_	Toilet Paper, etc.	Suds Other:			☐ 1 – Few/sligh	nt; 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)
Notes: Potential tidal influ	ence due to low tide									
Section 5: Physical In Are physical indicator				wing Outfalls Yes No		Skip to Sec	tion 6)			
INDICATOR	CHECK if F	resent		İ	DESCRIPTION				COMMENT	S
Outfall Damage			☐ Spalling, ☐ Corrosion	Cracking or Chip	pping 🗌	Peeling Pain	t			
Deposits/Stains			☐ Oily ☐	Flow Line 🔲 🗆	Paint 🔲 C	Other:		sediment a	nd algae	
Abnormal Vegetation			☐ Excessive	Inhibited			,			•
Poor pool quality			Odors Suds	Colors Excessive A	☐ Floatables Algae	Oil Sheen	n			
Pipe benthic growth			Brown	Orange	Green	Other:				
Section 6: Overall O				. ,	1 0				та — Пат.:	
Unlikely	Potential (prese	nce of two	or more indica	ators)	J Suspect (one	e or more 11	ndicators with a	i severity o	f 3) 🔲 Obvious	

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Back	grout	ia Data			0.0	(-05		
Subwatershed:	/				Outfall ID: (P 3			
Today's date:	7/	6/12			Time (Military):			
Investigators:					Form completed b	y: 13W		
Temperature (°F):		Τ.		fall (in.): Last 24 hours: 0	1	1		
Latitutde:		I	Longitude:		GPS Unit:		GPS LMK #:	:
Camera: Nikon-		(CI - 1 - 11 d - 1	. 13		Photo #s:			
Land Use in Drain	age Are	a (Check all that	appiy):		_			
☐ Industrial					Open Space			
Ultra-Urban R	esidenti	al						
☐ Suburban Resi	dential				Other:			
☐ Commercial					Known Industries:			
Notes (e.g, origin	n of outf	fall, if known): lar	ge crabs, Mi	nnows, vegetation along ca	anal is sparse, trash on	side of canal, paper a	and plastic.	
Section 2: Outf	all De	scription		Storm John	only			
LOCATION	1	MATER		SHA		DIMENSIO	NS (IN.)	SUBMERGED
		☐ RCP	□СМР	☐ Circular	☐ Single	Diameter/Dimen	sions:	In Water:
		□ PVC	□ HDPE	☐ Eliptical	☐ Double			☐ No ☐ Partially
Closed Pipe		☐ Steel		☐ Box	☐ Triple			☐ Fully
_		Other:		☐ Other:	Other:			With Sediment:
,								Partially Fully
		☐ Concrete		_				
		☐ Earthen		☐ Trapezoid		Depth:		
Open drainage	2	☐ rip-rap		☐ Parabolic		Top Width:	_	
		Other:		☐ Other:		Bottom Width: _		
☐ In-Stream		(applicable who		r camples)				
Flow Present?		☐ Yes	No		p to Section 5			
Flow Description (If present)		☐ Trickle	☐ Modera					
Section 3: Qua	ntitati	ive Character	ization					
				FIELD DATA FOR F	LOWING OUTFALL	.s		* ·
P	ARAMI	ETER		RESULT		UNIT	E	QUIPMENT
——————————————————————————————————————		Volume				Liter		
∏Flow #1		Time to fill				Sec		
		Flow depth				<u>I</u> n		
☐Flow #2		Flow width	ō,	27		Ft, In		
LIFIUW #2	Ī	Measured length	<u>0</u> ,	"		Ft, In		
		Time of travel		.,		Sec		
Temperature					°F			
рН					pH Units Test strip/Probe			
	Ammonia					ppm		Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 
Yes No (If No, Skip to Section 5) CHECK if INDICATOR DESCRIPTION **RELATIVE SEVERITY INDEX (1-3)** Present ☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ 3 – Noticeable from a Odor ☐ 1 – Faint ☐ 2 – Easily detected distance ☐ Sulfide ☐ Other: ☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ 1 - Faint colors in ☐ 2 – Clearly visible in ☐ 3 – Clearly visible in Color sample bottle sample bottle outfall flow ☐ Orange ☐ Green Red Other:  $\Box$ Turbidity See severity ☐ 1 – Slight cloudiness 2 – Cloudy 3 – Opaque 2 - Some; indications ☐ 3 - Some; origin clear Floatables ☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ 1 – Few/slight; origin (e.g., obvious oil of origin (e.g., -Does Not Include not obvious possible suds or oil sheen, suds, or floating Petroleum (oil sheen) ☐ Other: Trash!! sheen) sanitary materials) Notes: Potential tidal influence due to low tide 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) INDICATOR **CHECK if Present** DESCRIPTION COMMENTS Spalling, Cracking or Chipping Peeling Paint Outfall Damage Corrosion Deposits/Stains Oily Flow Line Paint ☐ Other: sediment and algae ☐ Inhibited Abnormal Vegetation ☐ Excessive Oil Sheen ☐ Odors ☐ Colors ☐ Floatables Poor pool quality Suds ☐ Excessive Algae Other: ☐ Brown ☐ Orange ☐ Green Other: Pipe benthic growth Section 6: Overall Outfall Characterization Potential (presence of two or more indicators) Suspect (one or more indicators with a severity of 3) Obvious Unlikely

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Back	kgroui	nd Data			1	<b>7</b>		
Subwatershed:	<i>i</i> .	1 -			Outfall ID: (			
Today's date:	7/0	112			Time (Military):	1129		
Investigators:	•		1		Form completed b	y: ろん/		
Temperature (°F)	: 	·		all (in.): Last 24 hours: (	· _		<u></u>	
Latitutde:		Long	itude:		GPS Unit:		GPS LMK #	•
Camera: Nikon-					Photo #s:			
Land Use in Drain	nage Are	ea (Check all that appl	y):					
☐ Industrial					Open Space			
☐ Ultra-Urban R	esidenti	al			☐ Institutional			
☐ Suburban Res	idential				Other:			
☐ Commercial								
Notes (e.g, origi	n of out	fall, if known): large c		nnows, vegetation along c		side of canal, paper ar	nd plastic.	
Section 2: Out		T	4	Stream dinin	only	D7147110701		
LOCATIO	· · ·	MATERIAL		<del> </del>	r	DIMENSION		SUBMERGED
			CMP	☐ Circular	☐ Single	Diameter/Dimensi	ons:	In Water:
J			HDPE	☐ Eliptical	Double		<del></del>	☐ Partially ☐ Fully
Closed Pipe		☐ Steel		Вох	☐ Triple			With Sediment:
		Other:	_	Other:	☐ Other:			□ No □ Partially □ Fully
		☐ Concrete						
		☐ Earthen		☐ Trapezoid		Depth:		
🔲 Open drainag	e	☐ rip-rap		☐ Parabolic		Top Width:	<u>.</u>	
				☐ Other:		Bottom Width:		
		Other:						
In-Stream		(applicable when co	$-\!\!\!\!/$					
Flow Present?		☐ Yes	No	If No, Ski	p to Section 5			
Flow Description (If present)		Trickle	Moderat	e				
Section 3: Qua	ntitati	ive Characteriza	ion					
				FIELD DATA FOR F	LOWING OUTFALL	S		
P	ARAMI	ETER		RESULT		UNIT	E	QUIPMENT
□Flow#1		Volume				Liter		
		Time to fill				Sec		
		Flow depth	1			In		
□Flow #2		Flow width	<u>~</u>			Ft, In		
	1	Measured length	0'	**		Ft, In	-	
		Time of travel				Sec		
Temperature				°F				
рН					pH Units Test strip/Probe			
	Ammonia					ppm		Test strip

INDICATOR	CHECK if Present		DESCRIPTIO	N		RE	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petrole ☐ Other:	um/gas	☐ 1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	Yellow			2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 – Slight clo	udiness	2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include		☐ Sewage (1	Toilet Paper, etc.) Suds	r, etc.) Suds 1 – Few/sligh			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)
	dicators for Bo		nd Non-Flowing Outfal				i siecii)	santaly macrials)
otes: Potential tidal influ	dicators for Bo	ted to flow p			Section 6)		COMMENT	
otes: Potential tidal influence ection 5: Physical Interpretation	dicators for Bot s that are not rela	ted to flow p		o (If No, Skip to DESCRIPTION				
otes: Potential tidal influence ection 5: Physical In re physical indicator INDICATOR	dicators for Bots that are not rela	resent	resent?  Yes N	o (If No, Skip to DESCRIPTION  hipping Peeling	Paint	sediment :	COMMENT	
otes: Potential tidal influence of the physical indicator INDICATOR  Outfall Damage	adicators for Bots that are not rela	resent	resent?  Yes N  Spalling, Cracking or Cl Corrosion	DESCRIPTION  DESCRIPTION  DESCRIPTION	Paint	sediment a	COMMENT	
otes: Potential tidal influence of the physical Indicator INDICATOR Outfall Damage Deposits/Stains	check if i	resent	resent?  Yes N Spalling, Cracking or Cl Corrosion Oily Flow Line	DESCRIPTION  DESCRIPTION  Dipping Peeling  Paint Other: C	Paint Paint Sheen	sediment :	COMMENT	
otes: Potential tidal influence of the physical Indicator INDICATOR Outfall Damage Deposits/Stains	check if i	resent	resent?  Yes N  Spalling, Cracking or Cl Corrosion  Oily Flow Line Excessive Inhibited	DESCRIPTION  hipping Peeling  Paint Other:	Paint Paint	sediment a	COMMENT	

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

\$10 need's praintenance, hongy set, no filter

Subwatershed:	kgroui	iid Data			1 O-45-11 TO 2 C	35-01 01		
Today's date:	1	112			Outfall ID: Time (Military):	//	02?	
Investigators:		6//L			Form completed by	1133		
Temperature (°F):			Rainfe	all (in.): Last 24 hours: 0		: <u>3</u> 0	<del></del>	
Latitutde:	:		Longitude:	all (III.): Last 24 nours, t	GPS Unit:		GPS LMK #:	••
Camera: Nikon-			Longitude.		Photo #s:		GPS LIVIN TI	
Land Use in Drain	nage Ar	ea (Check all that	annly):		ΓΙΙΟΙΟ πδ.			
☐ Industrial			app.,,.		Open Space			
☐ Ultra-Urban R	Residenti	al			☐ Institutional			
☐ Suburban Resi	idential				Other:			
☐ Commercial					Known Industries:			
			rge crabs, Min	nnows, vegetation along c		ide of canal, paper a	and plastic.	
Section 2: Outf LOCATION		escription MATER		run draw 6.	APR	DIMENSIO	NS (IN.)	SUBMERGED
		□RCP	□СМР	☐ Circular	☐ Single	Diameter/Dimens		In Water:
		□ PVC	☐ HDPE	☐ Eliptical	☐ Double			☐ No ☐ Partially
Closed Pipe		☐ Steel		Вох	☐ Triple			☐ Fully
		Other:		☐ Other:	Other:			With Sediment:  No Partially
		1				-		Fully
		Concrete		☐ Trapezoid		Depth:		
☐ Open drainage	re-	☐ Earthen		☐ Parabolic		Top Width:		
□ • F•••	·	☐ rip-rap						
		☐ Other:	_	Other:		Bottom Width:		
☐ In-Stream		(applicable who	en collecting	samples)				<i>Your and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se</i>
Flow Present?		☐ Yes	Ø No	If No, Ski	p to Section 5			•
Flow Description (If present)		☐ Trickle	☐ Moderate	e Substantial				
Section 3: Qua	ıntitati	ive Character	ization					
			··	FIELD DATA FOR F	LOWING OUTFALLS			
<b>P</b> /	ARAME	ETER		RESULT		UNIT	EC	QUIPMENT
□Flow#I		Volume				Liter		
	<u> </u>	Time to fill		VIII- 10-1.		Sec		
!		Flow depth				In		
□Flow #2	<u> </u>	Flow width	<u> </u>			Ft, In		
		Measured length	<u>Q</u> '	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Ft, In		
		Time of travel				Sec		
	Tempera					°F		
	pН				p	H Units	Te	st strip/Probe
	Ammo	nia	1			ppm		Test strip

INDICATOR	CHECK if Present		DESCRIPTION	v.		REL	ATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleun☐ Other:	m/gas	☐ 1 – Faint		2 - Easily detected	3 - Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown         ☐ Gray           ☐ Orange         ☐ Red	☐ Yellow ☐Other:	☐ I – Faint cole sample bot		2 – Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbidity			See severity			oudiness	2 – Cloudy	3 Opaque
Floatables -Does Not Include Trash!!			☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ 1 − Few/s 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)
Notes: Potential tidal influe	ence due to low tide							
Section 5: Physical In Are physical indicators INDICATOR		ted to flow j			ction 6)	I	COMMENT	· · · · · · · · · · · · · · · · · · ·
Outfall Damage		TOOLING	Spalling, Cracking or Chi		nt		COMMENT	
Deposits/Stains	IZ/	,′	☐ Oily ☐ Flow Line ☐	Paint 🗆 Other: Sco	Incert	sediment a	nd algae	
Abnormal Vegetation			☐ Excessive ☐ Inhibited					
Poor pool quality			Odors Colors Suds Excessive	☐ Floatables ☐ Oil Shea	en			
Pipe benthic growth			☐ Brown ☐ Orange	Green Other:				
Section 6: Overall Ou	tfall Characteri	zation						
			or more indicators)	Suspect (one or more i	ndicators with a	severity o	of 3)  \text{Obvious}	
——————————————————————————————————————	Totomai (proof							
•	_	-	.g., trash or needed infras	- '				
14 dinin - 0	sed ment, no	Glow						
Land drain -	1" of wa	le (-li)	(?), trash, & &	dimet, no flow	ļ			

Note: Yout anis enter this 50

Section 1: Baci	kgroui	ia Data							
Subwatershed:					Outfall ID	: P32-04			
Today's date:	7/6	112			Time (Mil	itary): 1137			
Investigators:	- 1 - ",				Form com	pleted by:			
Temperature (°F):	:		Rai	nfall (in.): Last 24 hours: 0	Last 48 ho	urs: 0			
Latitutde:			Longitude:		GPS Unit:		GPS LMK #	<b>#</b> :	
Camera: Nikon-					Photo #s:				
Land Use in Drain	nage Are	a (Check all that	apply):		•				
☐ Industrial					☐ Open S	Space			
Ultra-Urban R	tesidenti	al			☐ Institu	tional			
Suburban Res	idential				Other:				
Commercial					Known In	dustries:			
Notes (e.g, origi	n of outi	fall, if known): lar	rge crabs, N	Ainnows, vegetation along ca		trash on side of cana	l, paper and plastic.		
Section 2: Out		· · · · · · · · · · · · · · · · · · ·	Pfream		only		· .		
LOCATION	<b>N</b>	MATER	RIAL	SH/	APE (	DIM	MENSIONS (IN.)	SUBMERGED	
		RCP	☐ CMP	☐ Circular	☐ Single	Diamete	r/Dimensions:	In Water:	
		□ PVC	HDPE		☐ Double			Partially Fully	
Closed Pipe		☐ Steel		☐ Box	☐ Triple			With Sediment:	
2		Other:		Other:	Other:	_		☐ No ☐ Partially ☐ Fully	
		☐ Concrete	_		L	District			
<b></b>		☐ Earthen		☐ Trapezoid		Depth: _			
Open drainage	e	□ гір-гар		☐ Parabolic			ith:		
		Other:	_	Other:		Bottom '	Width:		
☐ In-Stream		(applicable who	en collectir	ng samples)					
Flow Present?		☐ Yes		io <i>If No, Ski</i>	p to Section 5	*			
Flow Description (If present)		☐ Trickle	☐ Moder	ate   Substantial					
Section 3: Qua	ntitati	ive Character	rization						
				FIELD DATA FOR F	LOWING OL	JTFALLS			
P	ARAME	ETER		RESULT		UNIT	E	QUIPMENT	
□Flow#1		Volume				Liter			
		Time to fill				Sec			
		Flow depth				In			
□Flow #2		Flow width	<u>0</u> ,	**		Ft, In			
	Flow #2  Measured length  O' "		"		Ft, In				
	<u> </u>	Time of travel				Sec			
Temperature						ok.			
рН				- <del> </del>		pH Units	pH Units Test strip/Probe		
Ammonia						Test strip			

INDICATOR	CHECK if Present		DESCRIPTION	N		RE	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleum	m/gas	☐ 1 – Faint		☐ 2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	☐ 1 – Faint cole sample bot		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ I – Slight clo	oudiness	2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!		☐ Sewage (7	Foilet Paper, etc.) Suds		1 - Stignt cloudiness  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)
otes: Potential tidal influction 5: Physical I	ndicators for Bot		nd Non-Flowing Outfall		G .: 6)			
otes: Potential tidal influ	ndicators for Bot	ted to flow p	resent? Yes No		Section 6)		COMMENT	rs
otes: Potential tidal influction 5: Physical I e physical indicator	ndicators for Bot s that are not rela	ted to flow p	resent? Yes No	(If No, Skip to			COMMENT	rs
otes: Potential tidal influction 5: Physical I e physical indicator	ndicators for Bot s that are not rela CHECK if F	ted to flow p	resent? Yes No	DESCRIPTION  pping Peeling	Paint	sediment.		rs
otes: Potential tidal influction 5: Physical I e physical indicator INDICATOR  Outfall Damage	ndicators for Bot s that are not rela CHECK if F	ted to flow p	resent? Yes No Spalling, Cracking or Chi Corrosion	DESCRIPTION  pping	Paint	sediment :		rs
ction 5: Physical I e physical indicator INDICATOR Outfall Damage Deposits/Stains	ndicators for Bot s that are not rela  CHECK IF F	ted to flow p	resent? Yes No Spalling, Cracking or Chi Corrosion Oily Flow Line	DESCRIPTION  pping Peeling  Paint Other: 9	Paint  edine	sediment :		rs .
ction 5: Physical I e physical indicator INDICATOR Outfall Damage Deposits/Stains Abnormal Vegetation	ndicators for Bots that are not related CHECK if F	ted to flow p	resent? Yes No  Spalling, Cracking or Chi Corrosion Oily Flow Line Excessive Inhibited Odors Colors	DESCRIPTION  pping Peeling  Paint Other: 9	Paint  edina  sheen r:	sediment :		rs

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

El Glanding world, god went

Section 1: Back	ground Data		·= · · · · · · · · · · · · · · · · · ·	772			
Subwatershed:				Outfall ID:	12-03		
Today's date:	7/6/12			Time (Military):	1144		
Investigators:	<del>-</del>			Form completed b	y: -5J		
Temperature (°F):		Ra	infall (in.): Last 24 hours: (	Last 48 hours: 0	· · · · · · · · · · · · · · · · · · ·		
Latitutde:		Longitude	:	GPS Unit:	GPS LMK	#:	
Camera: Nikon-			***************************************	Photo #s:	77.54		
Land Use in Drain	nage Area (Check al	l that apply):					
☐ Industrial				Open Space			
Ultra-Urban R	esidential			☐ Institutional			
Suburban Resi	dential			Other:			
☐ Commercial				Known Industries:			
Notes (e.g, origin	n of outfall, if know	n): large crabs,	Minnows, vegetation along c		side of canal, paper and plastic.		
Section 2: Outf	all Description	~	Storan Ironin on	ly			
LOCATION	, ,	ATERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED	
	☐ RCP	□СМР		☐ Single	Diameter/Dimensions:	In Water:	
	☐ PVC	☐ HDPI	∃ ☐ Eliptical	Double		☐ No ☐ Partially	
☐ Closed Pipe	☐ Steel		☐ Box	☐ Triple		☐ Fully	
· "			☐ Other:	☐ Other:		With Sediment:	
(						☐ Partially ☐ Fully	
	☐ Concre	te	☐ Trapezoid		Depth:		
☐ Open drainage	☐ Earthe	າ	☐ Parabolic				
<u></u> Орен оганиаде	rip-rap				Top Width:		
	☐ Other:		Other:		Bottom Width:		
☐ In-Stream	(applicab	e when collecti	ng samples)				
Flow Present?	☐ Yes	Ø	No If No, Ski	p to Section 5			
Flow Description (If present)	☐ Trickle	: Mode	erate				
Section 3: Quar	ntitative Chara	cterization					
			FIELD DATA FOR F	LOWING OUTFALL	S		
P/	ARAMETER		RESULT		UNIT	EQUIPMENT	
□Flow#1	Volume				Liter		
	Time to fi	11			Sec		
	Flow dept	h			Ĭn		
☐Flow #2	Flow wid	h <u>0</u> '	**		Ft, In		
110 112	Measured le	ngth <u>0</u> '	39		Ft, In		
	Time of tra	vel			Sec		
<u> </u>	Temperature				°F		
рН					pH Units Test strip/Probe		
	Ammonia				ppm	Test strip	

INDICATOR	CHECK if Present		DESCRIPTION		RE	LATIVE SEVERITY INDEX	(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:	☐ I – Faint col		2 – Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbidity			See severity	☐ 1 Slight clo	oudiness	2 - Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!		☐ Sewage (	Toilet Paper, etc.) Suds n (oil sheen) Other:	1 – Few/sligh	nt; 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)
Notes: Potential tidal influ	ence due to low tide	,			,	- <u></u>	•
are physical indicator	s that are not rela	ted to flow p		Section 6)	<del></del>		
INDICATOR	CHECK if I	resent	DESCRIPTION			COMMENT	rs
Outfall Damage			☐ Spalling, Cracking or Chipping ☐ Peeling ☐ Corrosion	Paint			
Deposits/Stains			☐ Oily ☐ Flow Line ☐ Paint ☐ Other:		sediment	and algae	<u> </u>
Abnormal Vegetation			☐ Excessive ☐ Inhibited				
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil S☐ Suds ☐ Excessive Algae ☐ Othe				
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Othe	r;			
Section 6: Overall O	utfall Characteri	zation			···		
Unlikely			or more indicators)	o indicators with	. navarity	of 3) Dovious	
[Z] Officery	Potentiai (preso	ince of two	or more indicators) Suspect (one or more	e indicators with a	a severity (	Of 3)	· · · · · · · · · · · · · · · · · · ·
Section 7: Any Non-I	llicit Discharge (	Concerns (e	.g., trash or needed infrastructure repairs)?				
		·	. ,				
Stanly	with						
\$ 10eds.	to be dear	nel, p	ywood o construction debris/ we 491 or fail ors pooks to c	ste stored	on top	of Imin	

Section 1: Back	kgrour	ıd Data			T	772.0	27	
Subwatershed:	<i>al</i> 1				Outfall ID:	· ·	,-02	
	70	11			Time (Militar		1147	
Investigators:			<del></del>		Form comple	-	70	<u></u>
Temperature (°F):		T _		all (in.): Last 24 hours: 0	1	: 0		
Latitutde:		L	ongitude:		GPS Unit:		GPS LMK #	#: 
Camera: Nikon-			1		Photo #s:		M2-24	
	iage Are	ea (Check all that ap	opty):		_			
☐ Industrial					Open Spa	ce		
Ultra-Urban R	esidenti	al			☐ Institution	nal		
Suburban Resi	idential				Other:			
☐ Commercial					Known Indus	tries: _		,
Notes (e.g, origin			e crabs, Mi	· 1		sh on si	de of canal, paper and plastic.	
LOCATION		MATERI	1 1	SH/		$\overline{}$	DIMENSIONS (IN.)	SUBMERGED
		□ RCP [	СМР	☐ Circular	Single		Diameter/Dimensions:	In Water:
		PVC [	HDPE	☐ Eliptical	Double			☐ No ☐ Partially
☐ Closed Pipe		☐ Steel		□ Box	 ☐ Triple			Fully
		☐ Other:		☐ Other:	Other:			With Sediment:
` 		Guier.	<del></del>	Other.	Other.	_		☐ No ☐ Partially ☐ Fully
		☐ Concrete		☐ Trapezoid			Donth	
По		☐ Earthen					Depth:	
Open drainage	е	☐ rip-rap		Parabolic			Top Width:	
		☐ Other:		Other:			Bottom Width:	
☐ In-Stream		(applicable when	collecting	samples)				
Flow Present?		☐ Yes	□ No	If No, Ski	p to Section 5			
Flow Description (If present)		☐ Trickle [	Moderate		<u> </u>	,		
Section 3: Qua	ntitati	ve Characteriz	ation					
				FIELD DATA FOR F	LOWING OUT	FALLS	***************************************	
P	ARAMI	TER		RESULT		ι	JNIT E	QUIPMENT
□Flow#1		Volume					Liter	
		Time to fill					Sec	
		Flow depth					In	
□Flow #2	ļ	Flow width		1)		]	Ft, In	MIL-100 A. T. T. T.
	1	Measured length	0,	"		]	Ft, In	
		Time of travel					Sec	
<i>)</i>	Tempera					<del></del>	°F	
	pН			***************************************		pŀ	H Units T	est strip/Probe
	Ammo	nia					ppm	Test strip

INDICATOR	CHECK if Present		DESCRIPTION			REI	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleum ☐ Other:	n/gas	☐ 1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	1 - Faint cold sample bot		2 - Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 – Slight clo	udiness	2 – Cloudy	3 – Opaque
Floatables -Does Not Include Trash!!		Sewage (	Toilet Paper, etc.) Suds n (oil sheen) Other:		1 Few/sligh	ıt; origin	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)
			and Non-Flowing Outfalls	CICN - Chi C				
ection 5: Physical I re physical indicator INDICATOR		ted to flow p	resent? Yes No	(If No, Skip to So	ection 6)		COMMENT	rs
e physical indicator	s that are not rela	ted to flow p	resent? Yes No	ESCRIPTION			COMMENT	rs
e physical indicator	check if F	ted to flow p	resent? Yes No  D  Spalling, Cracking or Chip	PESCRIPTION ping Peeling Pa	int	sediment a		rs
re physical indicator INDICATOR Outfall Damage	cs that are not related CHECK if F	ted to flow p	resent? Yes No  D  Spalling, Cracking or Chipp Corrosion	PESCRIPTION ping Peeling Pa	int	sediment a		rs .
INDICATOR Outfall Damage Deposits/Stains	check if F	ted to flow p	resent? Yes No  D  Spalling, Cracking or Chipp Corrosion  Oily Flow Line P	ping Peeling Paraint Other: Que	int Viece-I	sediment a		rs
re physical indicator INDICATOR Outfall Damage Deposits/Stains Abnormal Vegetation	CHECK if F	ted to flow p	resent? Yes No  D Spalling, Cracking or Chipp Corrosion  Oily Flow Line P Excessive Inhibited  Odors Colors	ping Peeling Paraint Other: Que	int Viece-I	sediment a		rs .
The physical indicator INDICATOR Outfall Damage Deposits/Stains Abnormal Vegetation Poor pool quality Pipe benthic growth	cs that are not related CHECK if F	resent	resent? Yes No  D Spalling, Cracking or Chipp Corrosion  Oily Flow Line P Excessive Inhibited  Odors Colors Suds Excessive Al	ping Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Ot	int Viece—I	sediment a		rs .
Thysical indicator INDICATOR Outfall Damage Deposits/Stains Abnormal Vegetation Poor pool quality Pipe benthic growth	CHECK IF F	resent zation	resent? Yes No  D Spalling, Cracking or Chipp Corrosion  Oily Flow Line P Excessive Inhibited  Odors Colors Suds Excessive Al	ping Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Other: Peeling Parint Ot	int Sixe-1		and algae	TS

Section 1: Backg	ground Data						
Subwatershed:				Outfall ID: $\sqrt{3}$	,1-03		
Today's date:				Time (Military):	52		
Investigators:				Form completed by:	<b>'3</b> 4		
Temperature (°F):		Rainfa	all (in.): Last 24 hours: 0	Last 48 hours: 0			
Latitutde:	L	ongitude:		GPS Unit:		GPS LMK #	:
Camera: Nikon-				Photo #s:			
Land Use in Draina	age Area (Check all that ap	pply):				— : :-	
☐ Industrial				Open Space			
Ultra-Urban Res	sidential			☐ Institutional			
Suburban Reside	lential			Other:			<del></del>
☐ Commercial				Known Industries:			<del></del>
Notes (e.g, origin o	of outfall, if known): large	e crabs, Mir	nnows, vegetation along ca		de of canal, paper	and plastic.	
Section 2: Outfa	all Description	MStre	an Drain on	14			
LOCATION			SHA		DIMENSIO	ONS (IN.)	SUBMERGED
	□ RCP [	□ СМР	☐ Circular	Single	Diameter/Dimen	sions:	In Water:
	□ PVC [	☐ HDPE		☐ Double			☐ No ☐ Partially
☐ Closed Pipe	☐ Steel			☐ Triple			☐ Fully
	☐ Other:			☐ Other:			With Sediment:
· 							Partially Fully
	☐ Concrete		Transpoid		Dantle.		
	☐ Earthen		☐ Trapezoid		Depth:		
☐ Open drainage	☐ rip-rap		Parabolic		Top Width:		
	Other:		Other:		Bottom Width: _		
☐ In-Stream	(applicable when	<del></del>	samples)				
Flow Present?	☐ Yes	□ No		ip to Section 5			
Flow Description (If present)		☐ Moderate					
Section 3: Quan	ntitative Characteriz	zation	<del>-</del>				
			FIELD DATA FOR FI	LOWING OUTFALLS			
PA	RAMETER		RESULT	1	UNIT	E(	QUIPMENT
	Volume				Liter		
□Flow#1	Time to fill				Sec		
	Flow depth				In		
☐Flow #2	Flow width	<u>0</u> ' '	»	-	Ft, In		
LIPIOW #2	Measured length	<u>0</u> , ,	"	`	Ft, In		
	Time of travel				Sec		
Te	'emperature				°F		
	рН			pI	H Units	Te	est strip/Probe
1	Ammonia				ppm		Test strip

Section 4: Physical Indicate Any Physical Indicate	ndicators for Flo tors Present in the f	wing Outfa low? □ Yo	es No (If No, Skip to Section 5)				
INDICATOR	CHECK if Present		DESCRIPTION		REL	ATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ 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 color sample bott		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	☐ 1 – Slight clo	udiness	2 – Cloudy	3 – Opaque
Floatables -Does Not Include Trash!!		-	(Toilet Paper, etc.) Suds m (oil sheen) Other:	1 – Few/sligh	t; 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)
Notes: Potential tidal influ	ence due to low tide	`					
Are physical indicators	s that are not relat	ted to flow p	<u> </u>	ction 6)	Γ.		
INDICATOR	CHECK if F	resent	DESCRIPTION			COMMENT	5
Outfall Damage			☐ Spalling, Cracking or Chipping ☐ Peeling Paid ☐ Corrosion	nt			
Deposits/Stains			Oily  Flow Line  Paint  Other:		sediment a	nd algae	
Abnormal Vegetation			☐ Excessive ☐ Inhibited				
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Shee ☐ Suds ☐ Excessive Algae ☐ Other:	en			
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:				
Sectión 6: Overall O	ıtfall Characteri	zation					
☑ Unlikely □	Potential (prese	nce of two	or more indicators)	ndicators with a	severity o	of 3) Dovious	
Section 7: Any Non-I	llicit Discharge (	Concerns (e	e.g., trash or needed infrastructure repairs)?				

optream drain: Standing water, with wilky substance footing

Subwatershed:	kgroun	и рата			Outfall ID: 9-3	-02		
	7/6	112			Time (Military):	1154		
Investigators:	<del>'' '</del>	770			Form completed by:	グレ		
Temperature (°F):	:		Rainf	all (in.): Last 24 hours: 0	Last 48 hours: 0	<i></i>		<u>-</u>
Latitutde:		Long	tude:		GPS Unit:		GPS LMK #:	
Camera: Nikon-					Photo #s:			
Land Use in Drain	nage Are	ea (Check all that apply	):					
☐ Industrial					Open Space			
☐ Ultra-Urban R	esidenti	al			☐ Institutional			
☐ Suburban Resi	idential				Other:			
☐ Commercial					Known Industries: _			
Notes (e.g, origin	n of outf	fall, if known): large cr	abs, Mi	nnows, vegetation along ca	anal is sparse, trash on si	de of canal, paper	and plastic.	
Section 2: Outf	fall De	scription ·	<u></u>	fream Jain	. on 4			
LOCATION	N	MATERIAL		SHA	APE /	DIMENSIO	NS (IN.)	SUBMERGED
		□ RCP □ C	MP	☐ Circular	☐ Single	Diameter/Dimen	sions:	In Water:
		□ PVC □ F	IDPE	☐ Eliptical	☐ Double			☐ Partially
Closed Pipe		☐ Steel		☐ Box	☐ Triple			☐ Fully
		☐ Other:	-	☐ Other:	Other:			With Sediment:  ☐ No ☐ Partially ☐ Fully
		☐ Concrete		1				
		☐ Earthen		☐ Trapezoid		Depth:		
Open drainage	e	☐ rip-rap		☐ Parabolic		Top Width:	<del></del>	
				☐ Other:		Bottom Width:		
FT Y- Stream		Other:	Tastina					
In-Stream Flow Present?		(applicable when co	No		o to Section 5			
Flow Description (If present)			Moderat		o to section 5			
Section 3: Qua	ntitati	ive Characterizat	ion					
				FIELD DATA FOR FL	LOWING OUTFALLS			
P/	ARAME	ETER		RESULT		JNIT	EC	QUIPMENT
□Flow #1		Volume				Liter		
		Time to fill	ļ			Sec		
		Flow depth				In	<del></del>	
□Flow #2	<u> </u>	Flow width	₩	19		Ft, In		
	<b>-</b>	Measured length	Ō,	27		Ft, In		
		Time of travel				Sec °F		
· · · · · · · · · · · · · · · · · · ·	Tempera pH			***		H Units	· Te	st strip/Probe
					_			
	Ammo	nia				ppm		Test strip

INDICATOR	CHECK if Present		DESCRIPTION	N		REL	ATIVE SEVERITY INDEX	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleur	m/gas	☐ 1 Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	<ul> <li>☐ Brown</li> <li>☐ Gray</li> <li>☐ Orange</li> <li>☐ Red</li> </ul>	☐ Yellow ☐Other:	☐ 1 – Faint cole sample bot		2 – Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbidity			See severity		☐ 1 – Slight clo	oudiness	2 – Cloudy	☐ 3 – Opaque
Floatables		☐ Sewage (	Toilet Paper, etc.)   Suds		☐ 1 – Few/sligh	ht; origin	2 – Some; indications of origin (e.g.,	3 - Some; origin clear
	dicators for Bot		and Non-Flowing Qutfalls		not obvious		possible suds or oil sheen)	
Trash!! es: Potential tidal influe	ence due to low tide	h Flowing a	and Non-Flowing Outfalls aresent?		not obvious		possible suds or oil	sheen, suds, or floatin sanitary materials)
Trash!! es: Potential tidal influe tion 5: Physical In	ence due to low tide  adicators for Bot s that are not relate	h Flowing a	and Non-Flowing Outfalls aresent?	O (If No, Skip to	not obvious  Section 6)		possible suds or oil sheen)	sheen, suds, or floatin sanitary materials)
tion 5: Physical In physical indicators INDICATOR	ence due to low tide  adicators for Bot s that are not relat  CHECK if P	h Flowing a	and Non-Flowing Outfalls resent? Yes No	O (If No, Skip to	not obvious  Section 6)	sediment a	possible suds or oil sheen)  COMMENT	sheen, suds, or floating sanitary materials)
Trash!! es: Potential tidal influe tion 5: Physical In physical indicators INDICATOR  Outfall Damage	ence due to low tide  adicators for Bot s that are not relat  CHECK if F	h Flowing a	and Non-Flowing Outfalls  present? Yes No	DESCRIPTION  ipping Peeling	not obvious  Section 6)	sediment a	possible suds or oil sheen)  COMMENT	sheen, suds, or floatin sanitary materials)
tion 5: Physical In physical indicators INDICATOR  Outfall Damage Deposits/Stains	adicators for Bots that are not related CHECK if P	h Flowing a	and Non-Flowing Outfalls  resent? Yes No  Spalling, Cracking or Chi Corrosion Oily Flow Line	DESCRIPTION  ipping Peeling  Paint Other:	Sheen	sediment a	possible suds or oil sheen)  COMMENT	sheen, suds, or floatir sanitary materials)

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Juin's Standing water

Section 1: Bacl	kgroun	ıd Data						
Subwatershed:					Outfall ID: 💎	31-01		
Today's date:	7/6	1/12			Time (Military):	1156		
Investigators:	1	<i>t</i> .			Form completed by	y:		
Temperature (°F):	:		Rainfa	all (in.): Last 24 hours: 0	Last 48 hours: 0			
Latitutde:		Lon	gitude:		GPS Unit:		GPS LMK #	<u>}:</u>
Camera: Nikon-					Photo #s:			
Land Use in Drain	nage Are	a (Check all that app	y):					
☐ Industrial					Open Space			
☐ Ultra-Urban R	Residentia	al			Institutional			
☐ Suburban Resi	idential				Other:			
☐ Commercial								
				nnows, vegetation along c		side of canal, paper	and plastic.	
ection 2: Out		scription MATERIA		rean frain	APE /	DIMENSI	ONS (IN.)	SUBMERGED
		□ RCP □	СМР	☐ Circular	☐ Single	Diameter/Dimer	nsions:	In Water:
		□PVC □	HDPE	☐ Eliptical	☐ Double			☐ No ☐ Partially
Closed Pipe		☐ Steel		☐ Box	☐ Triple			☐ Fully
		☐ Other:		Other:	☐ Other:			With Sediment:
								Partially Fully
		☐ Concrete			<u> </u>			
		│ │		Trapezoid		Depth:		
☐ Open drainag	e	rip-rap		☐ Parabolic		Top Width:		
		Other:		☐ Other:		Bottom Width:		
In-Stream		(applicable when c	alloating	(comples)				
Flow Present?		Yes	Ø No		p to Section 5			
Flow Description	,				p to Section 5			
(If present)		Trickle	Moderat	e Substantial				
Section 3: Qua	ntitati	ive Characteriza	tion					
.,,				FIELD DATA FOR F	LOWING OUTFALL	S		
. P	ARAMI	ETER		RESULT		UNIT	E	QUIPMENT
∏Flow #1		Volume				Liter		
		Time to fill				Sec		
		Flow depth				In		
□Flow #2		Flow width	- -≌	"		Ft, In		
•	1	Measured length	0,	**	.	Ft, In		
	<u></u>	Time of travel				Sec		
	Tempera					°F	_	
	pН	• • • • • • • • • • • • • • • • • • • •				pH Units	T	est strip/Probe
	Ammo	nia			ĺ	ppm		Test strip

INDICATOR	CHECK if Present		DESCRIPTIO	N		RE	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleu☐ Other:	ım/gas	☐ 1 – Faint		☐ 2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	☐ 1 – Faint co		2 - Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 — Slight c	loudiness	2 – Cloudy	☐ 3 Opaque
Floatables		☐ Sewage (7	Foilet Paper, etc.)   Suds		1 – Few/slig	ght; origin	2 – Some; indications of origin (e.g., possible suds or oil	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating
	ence due to low tide		nd Non-Flowjng Outfall				sheen)	sanitary materials)
Trash!!	ence due to low tide	ted to flow p	nd Non-Flowing Outfall resent? ☑ Yes ☐ No				i <u>-</u>	sanitary materials)
Trash!!  tes: Potential tidal influence  tion 5: Physical Inchession indicators	adicators for Bot s that are not rela	ted to flow p	nd Non-Flowing Outfall resent? ☑ Yes ☐ No	O (If No, Skip to DESCRIPTION	Section 6)		sheen)	sanitary materials)
Trash!!  tes: Potential tidal influence  tion 5: Physical In  physical indicators  INDICATOR	ence due to low tide  dicators for Bot s that are not rela	th Flowing a ted to flow p	nd Non-Flowing Outfall resent? Yes No	O (If No, Skip to DESCRIPTION  ipping	Section 6)	sediment	sheen)  COMMENT	sanitary materials)
tes: Potential tidal influences: Physical In physical indicators INDICATOR Outfall Damage	ence due to low tide  dicators for Bot s that are not rela  CHECK if F	th Flowing a ted to flow p	nd Non-Flowing Outfall resent? Yes No	O (If No, Skip to DESCRIPTION  ipping	Section 6)	sediment	sheen)  COMMENT	sanitary materials)
tes: Potential tidal influences: Physical Ir physical indicators INDICATOR Outfall Damage Deposits/Stains	ence due to low tide  dicators for Bot s that are not rela  CHECK if F	th Flowing a ted to flow p	nd Non-Flowing Outfall resent? Yes No Spalling, Cracking or Chi Corrosion	O (If No, Skip to DESCRIPTION  ipping	Section 6) Paint Favel / Sld.	sediment	sheen)  COMMENT	sanitary materials)

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

drin'. Standing rated

Section 1: Bacl	groui	nd Data						
Subwatershed:					Outfall ID:	0-44/45 -0	3	
Today's date:	7/5/	112			Time (Military):	9-44/45 -0		
Investigators:	54.	MA, JG, RL	, 3YZ	•	Form completed	by: 36/		
Temperature (°F):	:	<i>y</i> — <i>y</i> —	Rainf	all (in.): Last 24 hours: 0	Last 48 hours: 0	.05 in		
Latitutde:		Lor	gitude:		GPS Unit:		GPS LMK#	
Camera; Nikon-					Photo #s:			
Land Use in Drain	nage Are	ea (Check all that app	ly):					
☐ Industrial					Open Space			
Ultra-Urban R	.esidenti	al			☐ Institutional			
☐ Suburban Res	idential				Other:		700-1	
Commercial					Known Industrie	s:		
Notes (e.g, original section 2: Out			erabs, Mi	nnows, vegetation along ca	anal is sparse, trash o	on side of canal, paper	and plastic.	
LOCATION		MATERIA	L	SHA	APE	DIMENSI	ONS (IN.)	SUBMERGED
		□ RCP □	CMP	☐ Circular	☐ Single	Diameter/Dime		In Water:
			HDPE	☐ Eliptical	☐ Double			☐ No ☐ Partially
Closed Pipe		☐ SteeI		Box	☐ Triple			☐ Fully
		☐ Other:		Other:	Other:			With Sediment:
			_					☐ Partially ☐ Fully
		☐ Concrete						
		Earthen		☐ Trapezoid		Depth:	NA	
Open drainag	e	☐ rip-rap		Parabolic		Top Width:	<del>'</del>	
		☐ Other:		Other: gelf Hor	✓	Bottom Width:		
☐ In-Stream	<u> </u>	(applicable when o	allecting	samples)				
Flow Present?		☐ Yes	No		o to Section 5			
Flow Description (If present)		☐ Trickle ☐	Moderat	e   Substantial				
Section 3: Qua	ntitati	ive Characteriza	tion					
				FIELD DATA FOR F	LOWING OUTFAL	LS		
P	ARAME	ETER		RESULT		UNIT	E	QUIPMENT
□Flow#I		Volume				Liter		
		Time to fill				Sec		
		Flow depth				In		
□Flow #2		Flow width	<u>0</u> ,	**		Ft, In		
	1	Measured length	<u>0</u> ,	**		Ft, In		
		Time of travel				Sec		
<i>j</i>	Tempera	nture				°F		
	pН	<u>.</u>	_			pH Units	Τε	st strip/Probe
	Ammo	nia				ppm		Test strip

INDICATOR	CHECK if Present		DESCRIPTIO	N		REL	ATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleu☐ Other:	m/gas	☐ 1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	1 - Faint colesample bot		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 – Slight clo	oudiness	2 - Cloudy	☐ 3 – Opaque
Floatables	•	Sewage (	Foilet Paper, etc.)   Suds		☐ 1 – Few/sligh	ht; origin	2 - Some; indications of origin (e.g.,	3 - Some; origin clear (e.g., obvious oil
-Does Not Include Trash!!  tes: Potential tidal influence  ction 5: Physical Ir	dicators for Bot	☐ Petroleum	n (oil sheen)		not obvious		possible suds or oil sheen)	
-Does Not Include Trash!! tes: Potential tidal influ	ence due to low tide	Petroleum	n (oil sheen)		not obvious		possible suds or oil	sheen, suds, or floating sanitary materials)
-Does Not Include Trash!!  tes: Potential tidal influence  ction 5: Physical Ir  e physical indicator	ence due to low tide  adicators for Bot s that are not rela	Petroleum	n (oil sheen)	(If No, Skip to S  DESCRIPTION	not obvious	010513	possible suds or oil sheen)	sheen, suds, or floating sanitary materials)
-Does Not Include Trash!!  tes: Potential tidal influence  ction 5: Physical Ire  physical indicator  INDICATOR	adicators for Bots that are not rela	Petroleum	nd Non-Flowing Outfall resent? Yes No	(If No, Skip to S	not obvious	Q10513	possible suds or oil sheen)  COMMENT  nd atgae Sedir-enf	sheen, suds, or floating sanitary materials)
-Does Not Include Trash!!  tes: Potential tidal influence  ction 5: Physical Inc. physical indicator  INDICATOR  Outfall Damage	adicators for Bots that are not rela	Petroleum	nd Non-Flowing Outfall resent? Yes No	DESCRIPTION  ipping Peeling P	not obvious	Q10513	possible suds or oil sheen)  COMMENT	sheen, suds, or floating sanitary materials)
-Does Not Include Trash!!  tes: Potential tidal influence ction 5: Physical Ir e physical indicator INDICATOR  Outfall Damage Deposits/Stains	adicators for Bots that are not rela	Petroleum	nd Non-Flowing Outfall resent? Yes No	DESCRIPTION  ipping Peeling P  Paint Other:    Floatables   Oil Si	rection 6)	Q10513	possible suds or oil sheen)  COMMENT  nd atgae Sedir-enf	sheen, suds, or floating sanitary materials)

 ${\bf Section~7:~Any~Non-Illicit~Discharge~Concerns~(e.g.,~trash~or~needed~infrastructure~repairs)?}$ 

Section 1: Background Data

Subwatershed:		_		Outfall ID: ()	11-05		
Today's date:	7/5/12			Time (Military):	1006		
Investigators:	SU MA			Form completed by	: 51		
Temperature (°F):	:	Rainfa	all (in.): Last 24 hours: 0	Last 48 hours: 0	<b>9</b> 4	•	
Latitutde:		Longitude:		GPS Unit:		GPS LMK #	•
Camera: Nikon-				Photo #s:			
Land Use in Drain	nage Area (Check a	ll that apply):					
☐ Industrial				Open Space			
Ultra-Urban R	Residential			☐ Institutional	,		
Suburban Res	idential			Other:			
Commercial				Known Industries:			
Notes (e.g, origi	n of outfall, if knov	vn): large crabs, Mir	nnows, vegetation along ca			and plastic.	
-		•	_	-		•	
·	fall Description		T				<del></del>
LOCATION		IATERIAL	SHA		DIMENSIO		SUBMERGED
	<b>⊡</b> RCP	☐ CMP	☐ Circular	Single	Diameter/Dimen	sions:	In Water:
/	☐ PVC	☐ HDPE	☐ Eliptical	☐ Double	~6		□ No □ Partially □ Fully
Closed Pipe	☐ Steel		Бох	☐ Triple			With Sediment:
:	Other	:	☐ Other:	☐ Other:			☐ No
,							☐ Partially ☐ Fully
	☐ Concr	ete					
	☐ Earthe	en	☐ Trapezoid		Depth:		
Open drainag	e 🔲 rip-raj	)	☐ Parabolic		Top Width:	<u> </u>	
•	☐ Other		☐ Other:		Bottom Width: _		
☐ In-Stream		ole when collecting	samples)				
Flow Present?	▼ Yes	□ No		p to Section 5			
Flow Description (If present)	☐ Trickl		-				
— Section 3: Qua	intitative Char	acterization					
		**	FIELD DATA FOR F	LOWING OUTFALLS	<del></del>		
P	ARAMETER		RESULT		UNIT	E	QUIPMENT
□Flow#1	Volume	e			Liter		
	Time to	fill			Sec		
	Flow dep	oth			In		
□Flow #2	Flow wic	<u>var</u>			Ft, In		
_	Measured le	ongui <u>u</u>	**		Ft, In		
`	Time of tr	avel			Sec		
	Temperature				°F		
	pН			I	oH Units	Te	est strip/Probe
	Ammonia				ppm		Test strip

### Outfall Reconnaiss Leve Inventory Form

INDICATOR	CHECK if Present		DESCRIPTION	i		REI	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage	☐ Rancid/sour ☐ Petroleur	n/gas	1 Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐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	_	Sewage (	Foilet Paper, etc.)   Suds		1 – Few/slig	ht; origin	2 – Some; indications of origin (e.g.,	3 - Some; origin clear (e.g., obvious oil
•	dicators for Bot		nd Non-Flowing Outfalls		not obvious		possible suds or oil sheen)	
Trash!! otes: Potential tidal influe	nce due to low tide	th Flowing a	nd Non-Flowing Outfalls		not obvious		possible suds or oil	sheen, suds, or floatin sanitary materials)
Trash!!  otes: Potential tidal influence  ction 5: Physical In  e physical indicators	nce due to low tide dicators for Bot that are not rela	th Flowing a ted to flow p	nd Non-Flowing Outfalls	(If No, Skip to	not obvious  Section 6)	headwa	possible suds or oil sheen)	sheen, suds, or floatin sanitary materials)
Trash!!  otes: Potential tidal influence  ction 5: Physical In  e physical indicators  INDICATOR	dicators for Bot that are not rela	th Flowing a ted to flow p	nd Non-Flowing Outfalls resent? Yes No	(If No, Skip to DESCRIPTION  pping   Peeling	not obvious  Section 6)	headura sediment a	possible suds or oil sheen)  COMMENT	sheen, suds, or floatin sanitary materials)
Trash!!  otes: Potential tidal influence  ction 5: Physical Ince physical indicators  INDICATOR  Outfall Damage	dicators for Bot that are not rela	th Flowing a ted to flow p	nd Non-Flowing Outfalls resent? Yes No Spalling, Cracking or Chi Corrosion	(If No, Skip to DESCRIPTION  pping   Peeling	not obvious  Section 6)	1	possible suds or oil sheen)  COMMENT	sheen, suds, or floatin sanitary materials)
Trash!!  otes: Potential tidal influence  ction 5: Physical In  e physical indicators  INDICATOR  Outfall Damage  Deposits/Stains	dicators for Bot that are not rela	th Flowing a ted to flow p	nd Non-Flowing Outfalls resent? Yes No Spalling, Cracking or Chi Corrosion	(If No, Skip to DESCRIPTION  pping	not obvious  Section 6)  Paint  Sheen	1	possible suds or oil sheen)  COMMENT	sheen, suds, or floatin sanitary materials)

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Back	kgrour	id Data					<del></del>
Subwatershed:					Outfall ID: P4	1-01	
Today's date:	7/51	11			Time (Military):	oll	
Investigators:	gu'	,			Form completed by	:	
Temperature (°F):			Rainf	all (in.): Last 24 hours: 0	Last 48 hours: 0	),04	
Latitutde:			Longitude:		GPS Unit:	GPS LMK	#:
Camera: Nikon-					Photo #s:		
Land Use in Drain	nage Are	a (Check all th	at apply):				
☐ Industrial					☐ Open Space		
Ultra-Urban R	lesidenti	al			Institutional		
Suburban Resi	idential				Other:		<del></del>
Commercial					Known Industries:		
Section 2: Out				iniows, vegetation along ea	anar is sparse, trasii on	side of canal, paper and plastic.	
LOCATION	N	MAT	ERIAL	SHA	APE	DIMENSIONS (IN.)	SUBMERGED
			□ СМР	Circular Circular	Single	Diameter/Dimensions:	In Water:
		□ PVC	☐ HDPE	☐ Eliptical	☐ Double	186" 24"	☐ No ☐ Partially ☐ Fully
Closed Pipe		Steel		☐ Box	☐ Triple		-
		Other:	<del></del>	☐ Other:	Other:		With Sediment: No Partially Fully
		☐ Concrete					
		Earthen		☐ Trapezoid		Depth:	
Open drainag	e	☐ rip-rap		Parabolic Parabolic		Top Width:	
		Other:		☐ Other:		Bottom Width:	
☐ In-Stream		<del></del>	when collective	samples)			
Flow Present?	,	☐ Yes	☑ No		p to Section 5		
Flow Description (If present)	l	☐ Trickle	☐ Moderat	e 🔲 Substantial			
Section 3: Qua	ntitati	ive Charact	erization				
				FIELD DATA FOR F	LOWING OUTFALL	5	
Р	ARAMI	ETER		RESULT		UNIT	EQUIPMENT
□Flow#1		Volume				Liter	
		Time to fill				Sec	
		Flow depth				In	
∏Flow #2		Flow width		"		Ft, In	
	1	Measured lengt	h <u>0</u> '	"		Ft, In	<u> </u>
** <u></u>		Time of travel				Sec	
!	Tempera	ature				°F	
	pН					oH Units	Test strip/Probe
	Ammo	nia				ppm	Test strip

## Outfall Reconnaissance Inventory Form

INDICATOR	CHECK if Present		DES	CRIPTION			REI	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage☐ Sulfide	☐ Rancid/sour☐ Other:	Petroleum/ga	s	☐ 1 Faint	·	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green			☐ Yellow ☐Other:		1 Faint colors in sample bottle		3 – Clearly visible in outfall flow
Turbidity			Se	ee severity		☐ 1 – Slight ele	oudiness	2 - Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!		Sewage (1	• • •	Suds Other:		☐ I – Few/sligt	ht; 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)
otes: Potential tidal influence  ction 5: Physical Incrementary	dicators for Bo			g Outfalls es □ No	(If No, Ski	ο to Section 6)			
ection 5: Physical In	dicators for Bo	ted to flow p		es No	(If No, Ski	o to Section 6)		COMMENT	
ection 5: Physical In e physical indicators INDICATOR	dicators for Bots that are not rela	resent	resent? Z	es No	CRIPTION	o to Section 6)	Qu Nos	`	TS .
ection 5: Physical In te physical indicators INDICATOR Outfall Damage	dicators for Bots that are not rela	resent	resent? Ye	es No  DES  cking or Chipping	CRIPTION  g	ling Paint	expos	ed pipe	-S
ection 5: Physical In e physical indicators INDICATOR	chicators for Bots that are not relaced to the check if it	resent	Spalling, Crac Corrosion Oily   Flow	es No  DES  cking or Chipping  v Line Paint	CRIPTION  g	ling Paint	Oxfo;	ed pipe	<b>-</b> 5
ection 5: Physical In te physical indicators INDICATOR Outfall Damage	dicators for Bots that are not rela	resent	Spalling, Crac Corrosion Oily   Flow	es No  DES  cking or Chipping	CRIPTION  g	ling Paint	sediment	ed pipe	TS .
ection 5: Physical In the physical indicators INDICATOR  Outfall Damage  Deposits/Stains	chicators for Bots that are not relaced to the check if it	resent	Spalling, Crac Corrosion Oily   Flow Excessive	es No  DES  cking or Chipping  v Line Paint  Inhibited	CRIPTION  g Peo t Othe	ling Paint	sediment	ed pife	TS .
ction 5: Physical In the physical indicators INDICATOR  Outfall Damage  Deposits/Stains  Abnormal Vegetation	chicators for Bots that are not rela	resent	Spalling, Crac Corrosion Oily Flow Excessive  Odors Suds	es No  DES  cking or Chipping  v Line Paint  Inhibited  Colors Excessive Algae	CRIPTION  G Peo  t Othe	ling Paint : Oil Sheen	sediment	ed pife	S
cction 5: Physical Ince physical indicators INDICATOR  Outfall Damage  Deposits/Stains  Abnormal Vegetation  Poor pool quality	chicators for Bots that are not rela	Present	Spalling, Crac Corrosion Oily Flow Excessive  Odors Suds	es No  DES  cking or Chipping  v Line Paint  Inhibited  Colors Excessive Algae	CRIPTION  G Peo  t Othe	ling Paint : Oil Sheen Other:	sediment	ed pife	TS

(sf pstram: SD has no flow, some publis.

Section 1: Back	grour	nd Data				11		
Subwatershed:					Outfall ID:	38-07		
Today's date:	7/3	5/12		-	Time (Military):	1034		
Investigators:	<u> ح</u> الب	/			Form completed b	y:		
Temperature (°F):	· ·		Rainfa	all (in.): Last 24 hours: 0	Last 48 hours: 0	0.64		
Latitutde:		Longi	tude:	<del></del>	GPS Unit:		GP\$ LMK #	<del>!:</del>
Camera: Nikon-					Photo #s:			
Land Use in Drain	nage Are	ea (Check all that apply	):					
☐ Industrial					Open Space			
🔲 Ultra-Urban R	esidenti	al			☐ Institutional			
Suburban Resi	idential				Other:			
Commercial					Known Industries:			
Notes (e.g, originates)			ibs, Mii	nnows, vegetation along ca	anal is sparse, trash on	side of canal, paper	and plastic.	
LOCATIO	N	MATERIAL		SHA	APE _	DIMENSI	ONS (IN.)	SUBMERGED
	□ RCP □		MP	Circular	Single	Diameter/Dimer	sions:	In Water:
,		Drvc □ H	DPE	☐ Eliptical	Double			□ No. □ Partially
Closed Pipe		☐ Steel		Вох	☐ Triple			☐ Fully
- Closed Pipe		Other:		☐ Other:	☐ Other:			With Sediment:
			=					☐ Partially ☐ Fully
		☐ Concrete		☐ Trapezoid		Donth	· · · · · ·	
70		☐ Earthen		_		Depth:		
Open drainag	e	☐ rip-rap		☐ Parabolic		Top Width:		
		☐ Other:		Other:		Bottom Width:	<del></del>	
In-Stream		(applicable when co	lecting	samples)				
Flow Present?		Yes	☐ No	If No, Ski	p to Section 5 in A	on -0/8/4/	tibal	
Flow Description (If present)			/ /loderat			1 1		
Section 3: Qua	ntitati	ive Characterizat	on					
				FIELD DATA FOR F	LOWING OUTFALL	S		
P	ARAMI	ETER		RESULT		UNIT	E	QUIPMENT
□Elo #1		Volume				Liter		
☐Flow#1		Time to fill				Sec		
		Flow depth				In		
□Flow #2		Flow width	<u>0</u> '	**		Ft, In		_
	1	Measured length	<u>0</u> ,	"		Ft, In		
		Time of travel				Sec		
	Tempera	ature				°F		
<del></del>	pН					pH Units	Т	est strip/Probe
	Ammo	onia				ppm .		Test strip

## Outfall Reconnaissance Inventory Form

INDICATOR	CHECK if Present		DESCRIPTION		RE	LATIVE SEVERITY INDEX	(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 cole sample bot		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow	
Turbidity			See severity	☐ 1 Slight clo	udiness	Cloudy	☑3 – Opaque	
Floatables -Does Not Include Trash!!		-	(Toilet Paper, etc.) Suds m (oil sheen) Other: We lifted	1 – Few/sligt	nt; origin	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)	
lotes: Potential tidal influe	nce due to low tide						•	
re physical indicators		ted to flow	and Non-Flowing Outfalls  present? Yes No (If No, Skip to)  DESCRIPTION	Section 6)	<u> </u>	COMMENT	rs	
Outfall Damage	<u>d</u>	/	Spalling, Cracking or Chipping Peeling Corrosion	Paint	poor	visibility-asser		
Deposits/Stains			Oily Flow Line Paint Other:		sediment			
Abnormal Vegetation			☐ Excessive ☐ Inhibited					
Poor pool quality	ব্		☐ Odors ☐ Colors ☑ Floatables ☐ Oil S☐ Suds ☐ Excessive Algae ☐ Othe		Sedi	huef		
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Othe	r:				
ection 6: Overall Ou	ffoll Character	zation						
ection of Overan Ou		•	or more indicators)	e indicators with a	severity	of 3)		
□ Holikely 🗗	1 Otomiai (pros	onco or two	of more mareaters)					
Unlikely 💆								
ection 7: Any Non-II	licit Discharge	Concerns (e	e.g., trash or needed infrastructure repairs)?  be sediment  ce reals maintanne					

Section 1: Back	groun	ıd Data				***				
Subwatershed:	,				Outfall ID	: P38-01				
Foday's date:	13/	5/12			Time (Mil	itary): 905 Z				
Investigators:	,,	500			Form com	pleted by:				
Temperature (°F):			Rainfa	all (in.): Last 24 hour	rs: 0 Last 48 hor	urs: 0 0,04				
Latitutde:		Long	itude:		GPS Unit:	GPS Unit: GPS LMK #:				
Camera: Nikon-					Photo #s:					
Land Use in Drain	age Are	a (Check all that appl	y):			•				
☐ Industrial					Open S	Space .				
Ultra-Urban R	esidentia	al			☐ Institut	iional				
Suburban Resi	dential				Other:					
Commercial						dustries:				
		S-11 : C1								
Notes (e.g, ongi	ı or outi	all, if known): large c	rabs, Mii	nnows, vegetation alon	ig canai is sparse,	trash on side of canal, paper a	nd plastic.			
		·								
Section 2: Outf	all De	scription								
LOCATION	1	MATERIAI	-	/ 9	SHAPE /	DIMENSIO	NS (IN.)	SUBMERGED		
		□ RCP □	СМР	☐ Circular	☐ Single	Diameter/Dimens	ions:	In Water:		
		☑PVC □	HDPE	☐ Eliptical	☐ Double		<del></del> -	✓ No ✓ Partially		
Closed Pipe		☐ Steel		Вох	☐ Triple			☐ Fully		
Zi Glosed Aspe		 ☐ Other:		Other:	Other:			With Sediment:		
;			_		Culci.	_		Partially		
								☐ Fully		
		Concrete		☐ Trapezoid		Depth:				
Open drainage	2	Earthen		☐ Parabolic		Top Width:				
		☐ rip-rap		☐ Other:		Bottom Width:				
		☐ Other:		Other:		Bottoin Width:				
☐ In-Stream		(applicable when co	llecting	samples)				•		
Flow Present?		Yes	□ No	If No,	Skip to Section 5					
Flow Description (If present)		☐ Trickle ☐	Moderat	e 🔲 Substantial						
Section 3: Oua	ntitati	ve Characteriza	tion							
				FIELD DATA FOR	R FLOWING OU	JTFALLS	·····			
P	ARAME	TER	1	RESULT		UNIT	E	QUIPMENT		
	<u> </u>	Volume				Liter				
Flow #1		Time to fill				Sec				
		Flow depth				In	<del></del>			
		Flow width	0,	,,		Ft, In				
☐Flow #2	N	Measured length	<u>0</u> '	**		Ft, In				
		Time of travel				Sec				
) :	Гетрега	ture				°F				
	pН					pH Units	Te	st strip/Probe		
	Ammonia					ppm		Test strip		

ppm

# Outfall Reconnaissance Inventory Form

INDICATOR	CHECK if Present		DESCRIPTIO	N		RE	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage	☐ Rancid/sour ☐ Petroleu ☐ Other:	nm/gas	☐ 1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear☐ Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	☐ Yellow ☐Other:	1 – Faint cole sample bot		☐ 2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 — Slight clo	oudiness	2 - Cloudy	☐ 3 – Opaque
Floatables		□ Saviaga ("	Pollet Dance etc.) [1] Onde		_		2 – Some; indications	3 - Some; origin clear
-Does Not Include Trash!! tes: Potential tidal influe		Petroleum	Toilet Paper, etc.) Suds  n (oil sheen) Other:  and Non-Flowing Outfall	s	1 - Few/slight	nt; origin	of origin (e.g., possible suds or oil sheen)	(e.g., obvious oil
-Does Not Include Trash!! tes: Potential tidal influe	ence due to low tide	th Flowing a	n (oil sheen)		not obvious	nt; origin	possible suds or oil	(e.g., obvious oil sheen, suds, or floating sanitary materials)
-Does Not Include Trash!!  tes: Potential tidal influence  ction 5: Physical Include  physical indicators	ence due to low tide  adicators for Bot s that are not rela	th Flowing a	n (oil sheen)	O (If No, Skip to	not obvious Section 6)	nt; origin	possible suds or oil sheen)	(e.g., obvious oil sheen, suds, or floating sanitary materials)
-Does Not Include Trash!!  tes: Potential tidal influence  ction 5: Physical Inc.  physical indicators  INDICATOR	ence due to low tide  adicators for Bot s that are not rela	th Flowing a ted to flow p	n (oil sheen)	DESCRIPTION ipping Peeling	not obvious Section 6)	sediment	possible suds or oil sheen)  COMMENT	(e.g., obvious oil sheen, suds, or floating sanitary materials)
-Does Not Include Trash!!  tes: Potential tidal influence etion 5: Physical Incomplysical indicators INDICATOR  Outfall Damage	ence due to low tide  adicators for Bots that are not rela  CHECK if	th Flowing a ted to flow p	n (oil sheen)	DESCRIPTION ipping Peeling	not obvious Section 6)		possible suds or oil sheen)  COMMENT	(e.g., obvious oil sheen, suds, or floating sanitary materials)
-Does Not Include Trash!!  tes: Potential tidal influe  ction 5: Physical In  physical indicators  INDICATOR  Outfall Damage  Deposits/Stains	adicators for Bots that are not rela	th Flowing a ted to flow p	n (oil sheen)	DESCRIPTION  ipping Peeling  Paint Other:	not obvious  Section 6)  Paint		possible suds or oil sheen)  COMMENT	(e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Back	groui	าด มะเล		- · · · · · · · · · · · · · · · · · · ·	1					
Subwatershed:					Outfall I		7-0			
Today's date:	1/	5/12				(ilitary):	07			
Investigators:	2	<u> </u>	······	·····	Form co	mpleted by:				
Temperature (°F):			Rainfa	all (in.): Last 24 hours: 0	Last 48 h	ours: 0	٥،٠	,		
Latitutde:		Long	itude:		GPS Un	it:			GPS LMK #	•
Camera: Nikon-					Photo #s	:				
Land Use in Drain	age Are	ea (Check all that apply	<i>י</i> ):							
☐ Industrial					☐ Oper	Space				
Ultra-Urban Ro	esidenti	al			☐ Instit	utional				
☐ Suburban Resi	dential				Other: _			<del></del>		
Commercial					Known 1	Industries:	,			
Notes (e.g, origin	of outf	fall, if known): large cr	abs, Miı	nnows, vegetation along ca	anal is spars	e, trash on sid	le of cana	l, paper	and plastic.	
Section 2: Outf	all De	scription								
LOCATION	ı	MATERIAL		SHA	APE		DIM	IENSIC	NS (IN.)	SUBMERGED
		□ RCP □ C	CMP	Circular	Single		Diamete	r/Dimen	sions:	In Water:
		□PVC □1	HDPE	☐ Eliptical	☐ Double					☐ Partially
Closed Pipe		☐ Steel		Вох	☐ Triple		:			☐ Fully
	_		Other:		Other:				With Sediment: ☐ No ☐ Partially	
										Fully
		Concrete		☐ Trapezoid			Depth:			
Open drainage		☐ Earthen		☐ Parabolic			Top Wid			
C Open dramage	•	☐ rip-rap								
		☐ Other:		Other:			Bottom	widin: _		
☐ In-Stream		(applicable when co	llecting	samples)						
Flow Present?		☐ Yes	<b>□</b> .⁄⁄₀	If No, Ski	p to Section	5 W	ex			
Flow Description (If present)		☐ Trickle ☐ 1	Moderate	e 🔲 Substantial						
Section 3: Qua	ntitati	ive Characterizat	ion							
				FIELD DATA FOR F	LOWING (	OUTFALLS				
PA	ARAMI	ETER		RESULT		ι	NIT		E	QUIPMENT
□Flow#1		Volume	ļ			1	Liter			
		Time to fill	<u>.</u>				Sec			
		Flow depth					In			
□Flow #2		Flow width	Ξ.	"			t, In			
	]	Measured length	Ω'	,,			Ft, In			
<u> </u>		Time of travel	-				Sec			
1	Tempera	••	<b> </b>				°F			and a last to the
	pН				pH Units Test strip/Probe					
	Ammo	nia					ppm			Test strip

### Outfall Reconnaissance Inventory Form

Odor Color Turbidity		Sulfide	☐ Rancid/sour ☐ Petroleum ☐ Other:	n/gas	☐ 1 – Fair	t	2 – Easily detected	☐ 3 – Noticeable from a
		□ Clear					distance	
Turbidity			☐ Brown         ☐ Gray           ☐ Orange         ☐ Red	☐ Yellow ☐Other:	☐ 1 – Fair samp	t colors in e bottle	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
			See severity		☐ 1 – Slig	ht cloudiness	2 - Cloudy	3 – Opaque
Floatables -Does Not Include Trash!!		Sewage (Toile	"oilet Paper, etc.) ☐ Suds ☐ 1 – Few/slight; orig				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)
otes: Potential tidal influence du	ue to low tide							
INDICATOR Outfall Damage			Spalling, Cracking or Chip	ping	Peeling Paint		COMMENT	î <b>S</b>
Deposits/Stains		/	Corrosion  Oily ☐ Flow Line ☐ F	Paint 🔲 Ot	ner:	s <del>edirmen</del> t	and algae	
Abnormal Vegetation			Excessive  Inhibited					
Poor pool quality			Odors Colors Suds Excessive A		Oil Sheen Other:			
Pipe benthic growth			Brown	☐ Green	Other:		<u> </u>	
ction 6: Overall Outfall	Chamastania	otion				·		
<u> </u>			nore indicators)	Suspect (one	or more indicators w	ith a cavarity.	of 3) Dovious	
	cittai (preser	ice of two of fi	note indicators)	Suspect (one	of more mulcators w	itil a severity	or 3) 🔲 Ouvious	

Section 1: Back	groun	d Data		····				<u></u>	
Subwatershed:					Outfall	ID: P	7-01		
Today's date:	7/	12			Time (N	/lilitary):	13		
Investigators:	ન ગ	1			Form co	ompleted by:	34		
Temperature (°F):			Rainfa	all (in.): Last 24 hours: 0	) Last 48 l	nours: 0	0.01	·	
Latitutde:		;	Longitude:		GPS Unit: GPS LMK #:				
Camera: Nikon-				· · · · · · · · · · · · · · · · · · ·	Photo #	s:			
Land Use in Drain	age Are	a (Check all that	apply):						
☐ Industrial					☐ Ope	n Space			
Ultra-Urban Re	esidenti	al			Insti	tutional			
☐ Suburban Resi	dential				Other: _				
Commercial					Known	Industries:			
Section 2: Outf	all De		rge crabs, Mir	nnows, vegetation along ca	anal is spars	e, trash on sid	de of canal, paper	and plastic.	
LOCATION	1	MATER	RIAL	SH	APE		DIMENSIO	ONS (IN.)	SUBMERGED
		□ RCP	☐ CMP	☐ Circular	☐ Single		Diameter/Dimen	sions:	In Water:
		□ PVC	☐ HDPE	☐ Eliptical	☐ Double	<b>;</b>			☐ Partially
Closed Pipe		☐ Steel		☐ Box	☐ Triple				☐ Fully
		Other:		☐ Other:	Other:				With Sediment:
									☐ Partially ☐ Fully
		☐ Concrete							
		☐ Earthen		☐ Trapezoid			Depth:		
Open drainage	•	☐ rip-rap		☐ Parabolic			Top Width:	_	
		☐ Other:		☐ Other:			Bottom Width: _		
☐ In-Stream		(applicable wh		samples)			<u> </u>		
Flow Present?		Yes	□ No		p to Section	ı 5			<del></del>
Flow Description (If present)		☐ Trickle	☐ Moderate	e 🔲 Substantial				***	<del>-</del> -
Section 3: Qua	ntitati	ve Character	rization						
				FIELD DATA FOR F	LOWING				
P	ARAMI			RESULT			INIT	E(	QUIPMENT
∏Flow#1		Volume		<del></del>			Liter		
		Time to fill					Sec		<del>_</del> _
		Flow depth Flow width	<u>0</u> ,	12		,	In 7t, In		.,
∏Flow #2		Measured length		**			rt, in Ft, In		
	1	Time of travel	12				Sec		
	l Fempera						°F		197
·	рН					ıτα	I Units	Tr	est strip/Probe
	Ammo				<u> </u>		ppm		Test strin

# Outfall Reconnaissance Inventory Form

INDICATOR	CHECK if Present		DESCRIPTION		RE	LATIVE SEVERITY INDEX	(1-3)
Odor		☐ Sewage ☐ Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ I – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown         ☐ Gray         ☐ Yellow           ☐ Orange         ☐ Red         ☐ Other:	1 – Faint col		2 - Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity	d		See severity	1 Slight cloudiness		2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!		☐ Sewage (	oilet Paper, etc.) Suds SUM/G/m 1 - Few/slight; o 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)
Notes: Potential tidal influe	ence due to low tide						
Section 5: Physical In Are physical indicators			and Non-Flowing Outfalls present? Yes No (If No, Skip to	Section 6)	<del>. p</del>		
INDICATOR	CHECK if F	Present	DESCRIPTION			COMMENT	rs
Outfall Damage			☐ Spalling, Cracking or Chipping ☐ Peeling ☐ Corrosion ☐	Paint			
Deposits/Stains	[2 <b>/</b>		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:		ediment	a <del>nd algac</del>	
Abnormal Vegetation			☐ Excessive ☐ Inhibited	<u>-</u> . <u>-</u>			- · · · · · · · · · · · · · · · · · · ·
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil S☐ Suds ☐ Excessive Algae ☐ Other				
Pipe benthic growth	₽		☐ Brown ☐ Orange ☐ Green ☐ Othe	r:			
Section 6: Overall Ou	tfall Characteri	zation					
			or more indicators) Suspect (one or more	re indicators with	a severity	of 3) 🔽 Obvious	
Section 7: Any Non-Dichard Westrean Chernoly New additions Value and	llicit Discharge ( 40 CP b/t according, have been of	Concerns (e Pol L  made to  outside	g., trash or needed infrastructure repairs)?  Fig. flow present consty for youth area that convert to 2nd  hose is being used - Crow was	sur FIF. W sur Inlet (	Andow rearest 1	n of Jede after Popside). This hose so bypas	Gsh Sani ssed

# APPENDIX M HARBORS GROUND MAINTENANCE SPILL CLEANUP LOG



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Thoung 2012

### MONTHLY SPILL LOG

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)		Describe Clean-up Method, Disposal, and Group and Individue's Involved
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14 W. T. T. T. T. T. T. T. T. T. T. T. T. T.			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s			
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NO OIL SPILLS FOR JANUARY 2012

DON KAULEINAMOKU MAINTENANCE AND REPAIR SUPERVISOR II/STATE OF HAWAII/DOT/HARBOR DIVISION OCG

For3 rung 2012

### MONTHLY SPILL LOG

Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	lf Yes, Identify Water Body	Describe Clean-บp Method, Disposal, and Group and Individue's Involved
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	The second second second				- Tables ( a. B. activity ( p. ) but denote the best of the second public study ( edge one ( Planks and and
					-
-					
			Material Spilled Quentity Person(s)	Material Spilled  Quantity  Responsible Person(s)  Parin of Ocean? (Y/N)	

### MONTHLY SPILL LOG

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify Water Body	Describe Clean-up Method, Disposal, and Group and Individue's Involved
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			All the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t			
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NO OIL SPRILLS TO REPORT FOR MARCH 2012 000 DON KAULEINAMOKU MAINTENANCE AND REPAIR SUPERVISOR II / STATE OF HAWAII/DEPARTMENT OF TRANSPORTATION/ HARBOR DIVISION/ SANITATION AND GROUND UNITS

### MONTHLY SPILL LOG

) Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify	Describe Clean-up Method, Disposal, and Group and Individuals Involved
4/16/12	USED OIL	1/4 QUART	UNKNOWN	NO	(	PIER 15 REFUSE CREW OTICED OIL IN BOTTOM OF REFUSE CONTAINER.CLE PILL WITH OIL PADS (4)
en nada kinada ingga nika sagaranga nga						
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DON KAULEINAMOKU MAINTENANCE AND REPAIR SUPERVISOR II-SANITATION AND GROUNDS UNITS DEPARTMENT OF TRANSPORTATION/STATE OF HAWAII/HARBOR DIVISION

### MONTHLY SPILL LOG

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	lf Yes, Identify	Describe Clean-up Method, Disposal, and Group and Individuals Involved	·
5/10/12	AIR GAS FUMES	UNKWN	AIR GAS COMPANY	N		PIER 40 YOUNG BROS.T REPORT STREET SWEEPE AIR GAS FROM CONTAIN CALLED HAR.ENVIROMEN & Y/B OPERATIONS MAN GAS COMP.ON SITE TUR CLOSED TIME 10:30am	R OPERATER! ER LEAKING FAL SECTION AGER.AIR
						· ·	
	,						

DON KAULEINAMOKU MAINTENANCE AND REPAIR SUPERVISOR II OF HAR/OCG HARBOR DIVISION DEPARTMENT OF TRANSPORTATION STATE OF HAWAII

### MONTHLY SPILL LOG

Date	Material Spilled	Quantify	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	lf Yes, Identify Water Body	Describe Clean-up Method, Disposal, and Group and Individuals Involved
6/3/12	oil	1/4qrt	• unknown	n		time:8:20am labor crew cleaned oil under refuse container with 4-u degreaser, water, pads & dust absorbent at pier 37
6/3/12	oil	1/2qrt	. unknown	n		time:6:30am pier 36.labor crew cleaned oil under refuse can with 4-u degreaser, water, pads & dust absorbent.
6/3/12	oil	1/2qrt	. unknown	n		time:10:00am pier 16.labor crew claened oil under refuse container with 4-u degreaser, water, pads & dust absorbent.
6/3/12	oil	1/4qrt	• unknown	n		time:11:00am & 12:40pm pier 18 labor crew cleaned oil under refuse container with 4-u degreaser, water, pads & dust
						absorbent.
6/5/12	oil	lqrt.	unknown	n		time:7:40am pier 31 staging area.refuse crew cleaned oil spill coming from overturned a/c unit with 4-u,water,pads &
					5-16-5	dust absorbent.

DON KAULEINAMOKU MAINTENANCE AND REPAIR SUPERVISOR II OF /HAR-OCG DEPARTMENT OF TRANSPORTATION / HARBOR DIVISION /SANITATION AND GROUND UNITS

Date	Material Spilled	Quantity	Responsible Person(a)	Ocean?	If Yes, Identify	Describe Clean-up Method, Disposal, and Group and y Individuals Involved
7/2/12	oil	1/4qrt	unknown	n		time 12:40pm labor crew report oil spill at pier 18 containment center cleaned s with 4-u,pads,dust.
7/2/12	oil	5glln.	. unknown	n		time7:00am janitor III reporto sup.I oil spill at pier l containment center.sup.I res 7:10am.area already containe by janitor III with oil dust
						labor crew responed 7:35am. cleaned spill with 4-u,pads dust absorbent.
7/13/12	oil	1/2g1	unknown	n		pier 36 oil contaiment center time 9:00am labor crew clean oil spill from containment center with 4-U degreaser, was oil pads & dust absorbent.

DON KAULEINAMOKU MAINTENANCE AND REPAIR SUPERVISORIII OF HAR/OCG DEPARTMENT OF TRANSPORTATION /HARBOR DIVISION / SANITATION AND GROUNDS UNITS

# MONTHLY SPILL LOG Buguit 2012

Date	Material Spilled		Responsible Person(s)	Ocean?	If Yes, Identify	Describe Clean-up Method, Disposal, and Group and ly Individue's Involved
	OIL SPILL AT PIER 36 REFUSE 30 MAINS ENCLOSURE	1/4 QUART	N/A	NO		USED THREE(3) OIL PADS TO SOAK UP OIL USE DEGREASER AND OIL SPONGE AT THIS AREA BY SCRUBBING IN DEGREASER AND SPRINKLE
						OIL SPONGE AND SWEET OIL SPONGE BACK AND FORTH OVER THE DEGREASER SWEPT USED OIL SPONGE AND PLACE IT WITH THE USED OIL PADS INTO A TRASH BAG AND
						DISPOSE IT INTO A  2 CUBIC YARD REFUSE CONTAINER WHICH WILL BE DUMP AND HAUL TO H POWER KENNETH ZANE AND DEAN RITA DID THE
						CLEAN UP. ZANE NOTIFIED THE SUPERVISOR PRIOR TO AND AFTER THE CLEAN UP OF SPILL OIL VIA RADIO
8/24/12	OIL	2 SPOTS	S N/A	NO		PIER 36 OIL CONTAINMENT CENTER 2 SPOTS OF OIL REPORTED BY LABOR CREW TIME: 12:33pm CLEANED SPILL WITH OIL DEGREAS OIL PADS & DUST.
						A

DON KAULEINAMOKU MAINTENANCE AND REPAIR SUPERVISOR II DEPARTMENT OF TRANSPORTATION/HARBOR DIVISION/STATE OF HAWAII/OCG

Date	Moterial Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drahi or Ocean? (Y/N)	If Yes, Identify	Describe Clean-up Method, Disposal, and Group and Individuals Involved
9/26/12	2 QUARTS HYDRAULIC OIL-DUE TO BROKEN HYDRAULIC LINE WHILE PRE		STATE OF HAWAII SH9272 ROLL OFF	NO		OIL SPILL HAPPEN AT 0630 HOURS IN THE SAND ISLAND BASEYARD. BROKEN
	TRIPPING TRUCK IN SAND ISLAND BASEYARD		TRUCK			HYDRAULIC LINE BLEW ON SH 9272 ROLL OFF TRUCK WHILE TRUCK WAS WARMING UP AND BEING PRE TRIP, 4 OCG EMPLOYEES RESPONDED TO THE OIL
						SPILL BY USING OIL PADS TO SOAK UP OIL ON GROUND. THE GROUP THEN USED DEGREASER AND WORK IT INTO THE OIL SPILL. THE GROUP
						THEN USED OIL SPONGE ON THE DEGREASER AND OIL SPILL AND WORK IT IN BY USING PUSH BROOMS PICK UP USED OIL
						SPONGE AND PUT IT IN TRASH BAG AND PLACE IT INTO BASEYARD REFUSE CONTAINER THAT OUR REFUSE TRUCK PICK
						UP AND HAUL TO H POWER USED 4 OIL PADS 1/3 GAZLON OF DEGREASER 1/4 BAG OF OIL SPONGE
The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon						OIL SPILL WAS SECURED AT 0700 HOURS

DON KAULEINAMOKU/MAINTENANCE AND REPAIR SUPERVISOR II DEPARTMENT OF TRANSPORTATION/ STATE OF HAWAII/ HARBOR DIVISION/OCG

)ate	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	lf Yes, Identify Water Body	Describe Clean-บp Method, Disposal, and Group and Individuals Involved
		An indicate the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contr				
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NO OIL SPILLS FOR OCTOBER 2012 TO REPORT

DON KAULEINAMOKU MAINTENANCE AND REPAIR SUPERVISOR II

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBOR DIVISION HAR/OCG

# MONTHLY SPILL LOG HOUSEN 2017

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	ļ	Describe Clean-up Method, Disposal, and Group and Individue's Involved
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DON KAULEINAMOKU MAINTENANCE AND REPAIR SUPERVISOR II
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBOR DIVISION HAR/OCG
NO OIL SPILLS REPORTED FOR THE MONTH OF NOVEMBER 2012

MONTHLY SPILL LOG

DE CÉMASA 2012

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Date 12/13/10 2012	Moterial Spilled  MOTOR OIL	Quantity 1/4 QUART	Responsible Person(s) N/A	Discharge to Storm Drain or Ocean? (Y/N) NO	Identify	Describe Clean-up Method, Disposal, and Group and Individuals Involved 3 REFUSE CREW CLEANED OIL SPILL THAT WAS COMMING OUT OF REFUSE CONTAINER (ABOUT 1/4
						QUART). CLEANED OIL- SPILL WITH 4-U DEGREAS MIX WITH WATER, 5 OIL PADS, 1/2 GALLON OF OIL SPONGE FROM 0656 - 0720 HOURS

STATE OF HAWAII

DON KAULEINAMOKU MAINTENACE AND REPAIR SUPERVISOR II DEPARTMENT OF TRANSPORTATION HARBOR DIVISION HAR/OCG

# APPENDIX N ILLICIT DISCHARGE DATABASE



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Date of Enforcement	Tenant	Summary of Illicit Discharge Incident	
2/7/12	Pacific Shipyards International	On two separate occasions visits were made to the unimproved lot near Pier 42 where sandblasting operations were occuring on the floating dry dock that is owned and operated by the Honolulu Shipyard, Inc., also known as Pacific Shipyards International (PSI). An employee was sandblasting, or possibly pressure washing the vessel "American Contender" with no dust barrier in place. Additionally the deck appeared to be wet, suggesting that it was recently washed. No structural barriers were in place to control wash water runoff into the harbor. Harbors personnel issued a letter to PSI informing them of their violation of the Clean Water Act, 33 U.S.C § 1251 et seq. (1972). They were informed that they must cease all sandblasting operations until controls can be put in place to prevent the migration of pollutants into state waters. Additionally, they were informed that they must provide written documentation of procedures used when sandblasting, identify the chemical characteristics of materials removed from ships during sandblasting and how sandblasted waste would be disposed of.	
3/7/12	Pacific Commercial Services, LLC	Services (PCS) warehouse. The entire contents of the drum were released onto the asphalt in front of the warehouse. As soon as the spill occurred, PCS personnel spread several bags of clay absorbent on top of the oil to prevent spreading. Brooms were used to work the absorbent into the oil in the contaminated area. Contaminated asphalt was removed using jackhammers and excavators but no oil penetration was observed under the asphalt. All contaminated materials were packed into cubic yard triwalls for disposal. The 55-gallon drum	
3/8/12	Island Movers and Pacific Shipyard International	sheen on the surface was observed flowing through the area occupied by Pacific Shipyard and Island movers. Pictures were taken and HDOT was contacted. The Coast Guard was also contacted to report the sheen coming through their properties and they determined that the issue should be handled by DOT Harbors. The day of the incident Weston personnel visited the site to take pictures and to investigate the site and find the potential origin of the sheen.	
6/25/12	Reef Development of Hawaii, Inc.	Two male individuals were observed washing a vehicle with a pressure washer and a cloth on the ramp to Building 927. Soapy wash waster was observed going down the ramp and into harbor waters. Harbors personnel verbally warned the tenants and asked them to cease washing immediately. An action letter was sent to the tenant reminding them to avoid clean-up methods using free flowing water and asking for action to ensure similar incidents do not occur in the future.	

Date of	Tenant	Summary of Illicit Discharge Incident		
Enforcement	Tenant			
7/6/12	Jems Enterprises, LLC	Floating plastic debris was observed flowing out of outfall P36-01. The source of the debris was investigated and it was found to be coming from a water tank owned by Jems Enterprises, LLC. A follow-up was conducted on 8/1/12 and the debris was observed once again. Harbors personnel contacted the Manager of Jems Enterprises, LLC and asked him to look into the issue. The debris was caused by a system deficiency and all damaged parts were replaced and a filter was installed into the system.		
7/16/12	Young Brothers, Ltd.	A small pond of static water with white stains and petroleum hydrocarbon oil were observed under the shed of the Pier 21 mechanic shop. Further investigation revealed that the pond was caused from a maintenance employee rinsing a brake band in preparation for the loading and delivering of the item. It appeared that less than five gallons of water flowed into the harbor. Once discovered, Harbors personnel issued a verbal warning to the on-site employee. Less than a week later the Safety and Environmental Manager of YB followed up with an investigation and corrective action report. The employee was taught the proper cleaning methods and an environmental notice was created and sent to Pier 21 to serve as a reminder to use dry cleaning methods or rags.		
7/17/12	Matson Navigation Company	The Matson vessel "Maunawili" was observed being painted by two painters standing on a lift based on a floating barge. No containment was provided so a considerable amount of paint was seen dripping into harbor waters. The painting crew was instructed to stop painting until a method could be devised that would keep the paint from dripping in the water, which can be hazardous to marine life. The painting supervisor was notified that their painting methods must be changed. Later an enforcement letter was issued for the case.		
7/17/12	Matson Navigation Company	A molasses pipeline under Pier 51B between the 900 and 950 foot marks was observed leaking from a hole at the elbow of the pipeline. Harbors personnel informed the Matson supervisor of the illicit discharge.		

Date of Enforcement	Tenant	Summary of Illicit Discharge Incident	
7/18/12	Dependable Hawaiian Express, Inc.	management. Numerous oil stains on the soil underneath cars; accumulation area of tires, discarded mechanical apparatuses, and abandoned forklifts; a lead acid battery in a forklift which was exposed to the weather; plastic diesel containers without secondary containment; and various kinds of combustible debris and brush in the vicinity. An e-mail was sent to Ron Richardson of DHX with a list of issues to address.	
7/19/12	K-Sea Transportation, Hawaii Division	Maintenance crew aboard the Tug "Nene" were observed doing surface preparation on the superstructure by power grinding and chipping. In response, Harbors and Weston person addressed the issue by speaking with the supervisor and having him stop work until adequence dust barriers could be installed. The importance of environmental stewardship was stressed both the supervisor and maintenance crew. The maintenance crew installed a dust barrier around the frame before continuing work. It was requested that K-Sea Transportation takes measures to ensure that all future maintenance on the vessels be equipped with adequate protection and that crews have proper training on the importance of environmental stewardship prior to work beginning.	
8/23/12	Hawaii Stevedores, Inc.	A worker from Hawaii Stevedores was observed washing down the interior of a container at the Pier 1 Parking lot with the wash water flowing freely to the ground. The workers supervisor was contacted and the recommendation was made for workers to use dry cleaning methods or to wipe down the containers if necessary. Hawaii Stevedores' Environmental Officer was contacted for further corrective action.	

Date of	Tenant	Summary of Illicit Discharge Incident	
Enforcement	Tenant	Summary of fincit Discharge incident	
10/4/12	Leo Ohai dba Oceanic Libra Corporation	Harbors personnel observed a large refrigerator near the rear of Ohai's facility on Pier 18. Refrigerator condensation was dripping and forming a stream of water going to a nearby storm drain inlet while collecting surface contaminants along its path. Growth of algae in the refrigerator unit suggest this condition had existed for a while. In the food preparation area signs of fish blood and other types of fish entrails were located on the pavement along with silt build up and flies which were being carried along with the refrigerator condensation to the storm drain. Workers at Ohai were notified immediately and it was recommended that a containment device be placed below the refrigerator to capture any condensate and that the water be disposed of in the sanitary sewer system. A suggestion was also made for proper containment and disposal of food scraps and fish entrails to keep them from reaching the pavement.	
10/5/12	Leo Ohai dba Oceanic Libra Corporation	A facility visitor was observed washing a privately-owned vehicle with detergent near a storm drain inlet with soapy water being observed going into the inlet. The person was instructed to stop washing the vehicle and was informed that washing buildings, paved surfaces, vehicles and/or equipment with water and allowing the water to flow freely to the ground near storm drains is an illicit discharge.	
10/19/12	Maritime License Center	A male individual was observed washing a vehicle with a pressure washer next to the Maritime License Center at Pier 24. Harbors personnel informed the individual to stop washing immediate and informed them that washing was not allowed on Harbors property without propers controls in place. A letter was sent to the tenant be ensure that such activity would no longer occur and a few weeks later the tenant responded to the concern.	

Date of Enforcement	Tenant	Summary of Illicit Discharge Incident	
12/14/12	Management Corporation	Two illicit discharges were observed during the tenant inspection. The first discharge was a washing maching that was piped to drain to the exterior asphalt directly. The second discharge was hand washing detergent that was observed by a hose mounted to a green container. Harbors personnel provided warnings along with a request to discontinue use of the hand washing station and washing machine. A follow up was conducted on January 9, 2013 and both situations had been rectified.	

# APPENDIX O RECORD OF ENFORCEMENT ACTIONS



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Tenant Name	<b>Date on Letter</b>	Subject	Туре
Paradise Cruise, Inc.	1/23/2012	2011 Storm Water Compliance Inspection Results	Routine Inspection
Quickmove, Inc.	1/23/2012	2011 Storm Water Compliance Inspection Results	Routine Inspection
Marine Petroleum Corporation and Fuelman, Inc.	1/23/2012	2011 Storm Water Compliance Inspection Results	Routine Inspection
Paradise Cruise, Inc.	4/30/2012	AST - Violation of RP DOT-93-22 and H-06-2530 at Former KMR, Honolulu Harbor	AST Removal
Reef Development of Hawaii, Inc.	4/30/2012	AST - Violation of RP	AST Removal
Marine Petroleum Corporation	4/30/2012	AST - Violation of RP	AST Removal
Hawaii Transfer Company, Ltd	4/30/2012	AST - Violation of RP H-09-2654 at Former KMR, Honolulu Harbor	AST Removal
Akana Trucking, Inc.	4/30/2012	AST - Violation of RP H-10-2674 at Former KMR, Honolulu Harbor	AST Removal
Amazon Construction, Inc.	4/30/2012	AST - Violation of RP DOT-96-136 at Former KMR, Honolulu Harbor	AST Removal
Hi-Tec Roofing, Inc.	4/30/2012	AST - Violation of RP DOT-94-59 at Former KMR, Honolulu Harbor	AST Removal
Jem's Enterprises, LLC	5/3/2012	Environmental Compliance Inspection Results	Routine Inspection
Quickmove, Inc.	5/11/2012	Notice of Termination - RP No. H-98-162	Eviction Letter
Ty Pryne	5/21/2012	Environmental Compliance Inspection Results	Routine Inspection
Kong Enterprises, Inc.	5/22/2012	Letter of Termination and Notice to Vacate Account No. 300242 RP No. H-07-2579	Eviction Letter
Erik Builders, Inc.	5/30/2012	Environmental Assessment of Permitted Property at Keehi Industrial Lots, Kalihi-Kai, Oahu, TMK No. (1) 1-2-023:066; Revocable Permit Nos. H-97-1984 and H-98-2092	Site Inspection
Kumu Corporation	5/30/2012	Environmental Assessment of Permitted Property at Keehi Industrial Lots, Honolulu, Oahu, Hawaii, TMK No. (1) 1-2-023:073; RP No. H-97-1995	Site Inspection
Masuda Masonry	5/30/2012	Environmental Assessment of Permitted Property at Keehi Industrial Lots, Honolulu, Oahu, Hawaii, TMK No. (1) 1-2-023:074; RP No. H-97-1987	Site Inspection
Norman's Tractor Service	6/5/2012	Environmental Assessment of Permitted Property at Keehi Industrial Lots, Honolulu, Oahu, TMK No. (1) 1-2-023:036, RP No. H-97-1988	Site Inspection
Kokua Recycling	6/5/2012	Environmental Assessment of Permitted Property at Keehi Industrial Lots, Honolulu, Oahu, TMK No. (1) 1-2-023:047; Governor's Executive Order No. 3708, RP No. H-07-2577	Site Inspection
Nanakuli Neighborhood Housing Services, Inc.	6/5/2012	Environmental Assessment of Permitted Property at Keehi Industrial Lots, Honolulu Harbor, Island of Oahu, TMK No. (1) 1-2-023:063 (Portion) and a Portion GEO No. 3708, RP H-01-2248	Site Inspection
Paradise Equipment	6/13/2012	Notice of Termination - RP No. H-03-2415	Eviction Letter
Oceanic Libra Corporation	10/8/2012	Storm Drain Inlet at Pier 18	Other Observation
Kong's Enterprises, Inc.	12/5/2012	Letter of Revocation and Notice to Vacate - RP No. H-07-2579, Keehi Industrial Area	Eviction Letter

## January 23, 2012

Mr. Marc Rubenstein
Paradise Cruise, Inc., RDH Transportation, Inc., and Royal Star
5 Sand Island Access Road, Box 121
Honolulu, Hawaii 96819

Dear Mr. Rubenstein:

Subject: 2011 Storm Water Compliance Inspection Results

Pursuant to requirements established under the Honolulu Harbor and Kalaeloa Barbers Point Harbor Small Municipal Separate Storm Sewer System (MS4) permits, site inspections of your facilities were conducted in 2011. We are forwarding a report documenting the findings of our inspections and any subsequent follow-up.

Based on the inspections, your facility was found to need improvements in the following areas:

1. The facility washes buses and limousines without proper controls or written approval from HDOH or HDOT Harbors. The wash area is directly over storm drain and oily residue was observed flowing into the storm drain. Immediately cease washing activities until an application for washing is submitted to HDOT Harbors and approved. Notify employees not to remove the storm drain cap. The facility may also contract an approved washing contractor until a permit is approved. The requirements of the submittal to Harbors Division can be found in the attached report.

Previous inspection reports generated on December 4, 2009 and December 14, 2010 have required written approval from HDOH or HDOT Harbors in order to continue washing. This report constitutes the third written notice. Harbors Division requires that an Action Plan be provided within 20 days of receipt of this report. The Action Plan must describe corrective actions to be performed, responsible parties, and a schedule. The Action Plan may be submitted to HDOT Harbors by email to Randal.Leong@hawaii.gov or by mail to Mr. Randal Leong, Environmental Section, Harbors Division, 79 South Nimitz Highway, Honolulu, Hawaii 96813.

Failure to do so may result in administrative fines or the termination of your revocable permit.

#### April 13, 2012

Mr. Marc Rubenstein
Paradise Cruise, Inc., RDH Transportation, Inc., and Royal Star
5 Sand Island Access Road, Box 121
Honolulu, Hawaii 96819

Dear Mr. Rubenstein:

Subject: Vehicle (Bus) Washing Conditional Approval Revocable Permit DOT-93-22

We have reviewed the information provided in your February 16, 2012 transmittal that included information pertaining to washing company vehicles on-site at KMR associated with the subject Revocable Permit. The Storm Water Pollution Prevention Plan (SWP3) Mobile Wash BMPs by J/R Environmental Co. dated January 30, 2012 have been reviewed.

Based on the information provided and the washing demonstration provided on March 14, 2012, we hereby grant approval of your washing activities for a period starting from the date of your letter and expiring at midnight on December 31, 2012, subject to the following conditions:

- Condition 1 All washing activities are to be performed as described in the tenant submittals referenced above.
- Condition 2 All activities must comply with Hawaii Revised Statutes § 342D-50(a), specifically, "No person, including any public body, shall discharge any water pollutant into State waters, or cause or allow any water pollutant to enter state waters...".
  - Condition 3 All activities must adhere to the Environmental Protect Agency (EPA) Stormwater BMP relating to Municipal Vehicle and Equipment Washing.
  - Condition 4 Any enforcement actions and/or monetary fines resulting from non-compliance with the Hawaii Revised Statutes or EPA Stormwater BMPs will be the sole responsibility of the tenant initiating the rinsing activities and not the Harbors Division.

Mr. Marc Rubenstein April 13, 2012 Page 2

- Condition 5 This approval only applies to Paradise Cruise and Royal Star vehicles and only applies to its facilities at KMR as specified in the submitted map.
- Condition 6 Wash and disposal records must be available for review on site during your regular scheduled tenant inspection.
- Condition 7 This approval may be revoked at any time at the discretion of the Harbors Division.

Additionally, if you observe any illicit washing activities at KMR, please immediately report it to KMR Security at 628-1605 or the Honolulu Harbor Marine Traffic Controller at 587-2076.

If you have any questions, please contact Mr. Randal Leong of the Harbors Division Engineering Environmental Section at 587-1962.

Sincerely,

**RANDY GRUNE** 

Deputy Director, Department of Transportation Harbors Division

c: Mr. Mark Ambler, Weston Solutions

bc: DEP-P, HAR-PM, HAR-O

JG:lm



## STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

HARBORS DIVISION 79 So. Nimitz Highway, Honolulu, Hawaii 96813

April 30, 2012

GLENN M. OKIMOTO

Deputy Directors
JADE T, BUTAY
FORD N. FUCHIGAMI
RANDY GRUNE
JADINE URASAKI

IN REPLY REFER TO:

HAR-PM 5519.12

Mr. Marc Rubenstein
Paradise Cruise, Inc., RDH Transportation, Inc.
5 Sand Island Access Road, Box 121
Honolulu, Hawaii 96819

Dear Mr. Rubenstein:

Subject: <u>Aboveground Storage Tank – Violation of Revocable Permits DOT-93-22 and H-06-2530 at Former Kapalama Military Reservation, Honolulu Harbor</u>

It has been brought to our attention that your firm owns and operates at least one above ground storage tank (AST) on your rented premises. This is to advise you that you have twenty-one days from receipt of this letter to remove all ASTs from your premises.

Revocable Permits DOT 93-22 and H-06-2530 prohibit any above ground or underground storage tanks on your premises. Furthermore, the Harbors Division will be commencing a Phase 2 Environmental Site Assessment of the entire Kapalama Military Reservation shortly. The area of the existing AST will be a focus of the site assessment investigation so its removal is mandatory.

We appreciate your cooperation with this directive. Failure to comply will result in the revocation of your permit.

If you have any questions, please call Mr. Calvert Chun of our Property Management section at 587-1944.

Sincerely,

RANDY GRUNE

Deputy Director, Department of Transportation

HAR-EE 1789.12

January 23, 2012

Mr. Eugene Fontanilla Quickmove, Inc. P. O. Box 26 Aiea, Hawaii 96701

Dear Mr. Fontanilla:

Subject: 2011 Storm Water Compliance Inspection Results

Pursuant to requirements established under the Honolulu Harbor and Kalaeloa Barbers Point Harbor Small Municipal Separate Storm Sewer System (MS4) permits, site inspections of your facilities were conducted in 2011. We are forwarding a report documenting the findings of our inspections and any subsequent follow-up.

Based on the inspections, your facility was found to need improvements in the following areas:

- 1. The facility conducts hand washing outdoors without proper catchment or disposal procedures. Cease washing hands unless proper catchment and disposal is implemented.
- 2. Commercial vehicles and old equipment are leaking petroleum fluids on exterior pavement. Forklifts and other vehicles and mobile equipment stored outside must be monitored for leakage. If leaks are noted an appropriate drip pan or other spill control device must be used to contain chronic leaks. Such devices must be placed and monitored to ensure they do not collect rain water and overflow during storm events. Leakage and staining should be routinely cleaned from exterior surfaces. Absorbents placed in response to spills or leaks should be promptly cleaned from exterior surfaces and appropriately disposed.
- 3. Containers stored outside are open, leaking, or in poor condition and likely to fail. The contents must be transferred to proper containers or disposed in accordance with applicable regulations. Leakage and staining must be routinely cleaned from exterior surfaces. Absorbents placed in response to spills or leaks must be promptly cleaned from exterior surfaces and appropriately disposed.
- 4. The facility stores metal stock, engines, batteries, tires, scrap auto parts, painting equipment, and similar materials outdoors. Metal stock, engines, batteries, tires, and similar items that may be contaminated with heavy metals, petroleum products, or oily wastes must be kept indoors or secured under cover to prevent contact with rainfall.

- 5. The facility appears to store an excess of obsolete materials or wastes outdoors. Spent chemicals, batteries, equipment, paint wastes, and oily wastes must be collected and disposed in a timely fashion and at no time can be left outdoors uncovered where they can be contacted by rainfall.
- 6. Sediments have collected in drainage areas, swales, or storm drains. Sediments, debris, trash and oily wastes must be routinely cleaned from all storm water conveyances.
- 7. The facility needs to improve general housekeeping practices. Containers, open buckets, refuse and related items must be secured indoors or covered in areas where they cannot be contacted by rainfall.
- 8. The facility does not currently maintain logs of regular vehicle, forklift or equipment maintenance. Documenting periodic maintenance of mobile equipment is necessary to establish that the equipment is subject to proper maintenance, either on-site or at an off-site location, thus reducing the likelihood of chronic leaks contacting storm water.

Since there is no significant improvements from our 2010 inspection of your facility, Harbors Division requires that an Action Plan be provided within 20 days of receipt of this letter. The Action Plan must describe corrective actions to be performed, responsible parties, and a schedule. The Action Plan may be submitted to the Harbors Division by email to Randal.Leong@hawaii.gov or by mail to Mr. Randal Leong, Environmental Section, Engineering Section, Harbors Division, 79 South Nimitz Highway, Honolulu, Hawaii 96813.

Failure to respond in a timely fashion may result in administrative fines or the termination of your revocable permit.

We appreciate your kokua in working with us to meet the requirements of the Clean Water Act and to keep our ocean resources pollution-free to the best of our abilities.

If you have any questions, please contact Mr. Randal Leong of our Harbors Division Engineering Environmental Section at 587-1962 or Mr. Eric Leong of our Harbors Division Property Management Section at 587-1943.

Sincerely,

RANDY GRUNE

Deputy Director, Department of Transportation

Harbors Division

Att

bc: DEP-P, HAR-PM, HAR-O, HAR

RL:lm

Quick Move, Inc.

P.O. Box 26, Aiea, Hawaii 96701

Telephone: (808) 422-9999 / Fax (808) 422-9998ARBORS DIVIS ( Moving with Quality Service

'12 FEB **22** 

To:

Randal Leong

Hawaii Department of Transportation Harbors Division

79 S. Nimitz Highway Honolulu, Hawaii 96813

From:

Eugene Fontanilla

Phone:

808-422-9999

Fax:

808-422-9998

Date:

February 12, 2012

Subject: 2011 Storm Water Compliance Action Plan

HARBORS DIVISE

As per our conversation, here is our Action Plan describing correction actions to be performation responsible parties involved, and a schedule for completion.

Based on the inspections, improvements needed in the following areas:

Cease washing hands unless proper catchment and disposal implemented.

No hand washing will be performed on-site. Hose has been removed.

Completion Date: DONE

2 If leaks are noted an appropriate drip pan or other spill control device must be used.

Devices must be monitored to ensure not to collect rain water and overflow.

Leakage and staining must be routinely cleaned from exterior surfaces.

Absorbents used for spills and leaks must be promptly cleaned and appropriately disposed.

All equipment serviced on-site will have a "drop cloth" placed underneath prior to work being performed. Also, all used absorbents & spill control devices will be disposed of promptly.

Completion Date: 30 DAYS

3 Contents of containers outside that are open, leaking or in poor condition - must be transferred to proper containers or appropriately disposed.

Leakage and staining must be routinely cleaned from exterior surfaces.

Absorbents used for spills and leaks must be promptly cleaned and appropriately disposed.

All fluids will be placed in proper containers and stored under cover or appropriately disposed.

Work areas will be cleaned and used absorbents will be disposed of promptly.

Completion Date: 30 DAYS

4 Metal stock, engines, batteries, tires and similar items must be kept indoors or secured under cover to prevent contact with rainfall.

All metal stock, engines, batteries, tires and similar items on-site will be stored indoors or placed under cover to prevent contact from rainfall.

Completion Date: 30 DAYS

5 Spent chemicals, batteries, paint wastes and oily wastes must be collected and disposed of in a timely fashion and at no time left uncovered where they can be contacted by rainfall.

All spent chemicals, batteries, paint wastes and oily wastes will be placed in proper containers and stored under cover or appropriately disposed.

Completion Date: 30 DAYS

6 Sediments, debris, trash and oily wastes must be routinely cleaned from all storm water conveyances.

Storm water conveyances will be monitored and routinely cleaned so as to ensure that no sediments, debris, trash or oily wastes collect in them.

Completion Date: 30 DAYS

All containers, open buckets, refuse and related items must be secured indoors or covered in areas where they cannot be contacted by rainfall.

All containers, open buckets, refuse and related items will be placed in proper containers and stored under cover or appropriately disposed.

Completion Date: 30 DAYS

Thank you very much

Eugene Fontanilla

## January 23, 2012

Mr. Michael Rossman Marine Petroleum Corporation and Fuelman, Inc. P. O. Box 29249 Honolulu, Hawaii 96820

Dear Mr. Rossman:

Subject: 2011 Storm Water Compliance Inspection Results

Pursuant to requirements established under the Honolulu Harbor and Kalaeloa Barbers Point Harbor Small Municipal Separate Storm Sewer System (MS4) permits, site inspections of your facilities were conducted in 2011. We are forwarding a report documenting the findings of our inspections and any subsequent follow-up.

Based on the inspections, your facility was found to need improvements in the following areas:

- 1. The facility is suspected of conducting washing outdoors due to the presence of a hose with spray nozzle and puddles on a sunny day. Release of detergents, solids, and other pollutants in wash and rinse water from mop clean-up and from hand washing, steam-cleaning, etc. of commercial stock, equipment, vehicles and other items is prohibited on exterior surfaces including docks, pavement, and vegetation. Outdoor washing is only permitted if all wash and rinse water is contained, collected and disposed through the sanitary sewer, residual solids or sludges are disposed with the solid waste, and a specific Best Management Practice has been approved for the activity by HDOT Harbors. All washing must be discontinued until washing procedures are submitted to Harbors and approved.
- 2. Secondary containment is not provided for bulk aboveground fuel storage tanks and fuel handling areas, including transfer hoses stored on the truck. All aboveground tanks containing petroleum products or hazardous materials should be equipped with secondary containment to collect chronic leaks and spills. Associated loading, off-loading, dispensing, and fueling areas should also be equipped with secondary containment to capture a spill and prevent pollutants from flowing to storm drains.

- 3. The facility has storage capacity of petroleum products in excess of 1,320 gallons but does not have a written Spill Prevention, Control and Countermeasures (SPCC) Plan. A SPCC is required for a capacity to store greater than 1,320 gallons of petroleum with the potential to discharge to surface water.
- 4. The facility stores some old batteries outdoors on the pavement. Spent chemicals, batteries, equipment, paint wastes, and oily wastes should be collected and disposed in a timely fashion and at no time should be left outdoors uncovered where they can be contacted by rainfall.
- 5. Facility personnel have not attended HDOT Annual Storm Water Training. A representative of the company must attend annually the Storm Water training provided by HDOT Harbors. Storm water best management practices (BMPs) discussed during the HDOT Harbors training should be shared with facility employees. Records of attendance and the training performed should be kept.

Harbors Division requires that an Action Plan be provided within 20 days of receipt of this report. The Action Plan must describe corrective actions to be performed, responsible parties, and a schedule. The Action Plan may be submitted to HDOT Harbors by email to Randal.Leong@hawaii.gov or by mail to Mr. Randal Leong, Environmental Section, Engineering Branch, Harbors Division, 79 South Nimitz Highway. Honolulu, Hawaii 96813.

Failure to do so may result in administrative fines or the termination of your revocable permit.

We appreciate your kokua in working with us to meet the requirements of the Clean Water Act and to keep our ocean resources pollution-free to the best of our abilities.

If you have any questions, please contact Mr. Randal Leong of our Harbors Division Engineering Environmental Section at 587-1962 or Mr. Eric Leong of our Harbors Division Property Management Section at 587-1943.

Sincerely,

RANDY GRUNE

Deputy Director, Department of Transportation

Harbors Division

Att.

bc: DEP-P, HAR-PM, HAR-O, HAR

RL:lm



# STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION

79 So. Nimitz Highway, Honolulu, Hawaii 96813

April 30, 2012

GLENN M. OKIMOTO

Deputy Directors
JADE T, BUTAY
FORD N. FUCHIGAMI
RANDY GRUNE
JADINE URASAKI

IN REPLY REFER TO:

HAR-PM 5519.12

Mr. Marc Rubenstein
Paradise Cruise, Inc., RDH Transportation, Inc.
5 Sand Island Access Road, Box 121
Honolulu, Hawaii 96819

Dear Mr. Rubenstein:

Subject: <u>Aboveground Storage Tank – Violation of Revocable Permits DOT-93-22 and H-06-2530 at Former Kapalama Military Reservation, Honolulu Harbor</u>

It has been brought to our attention that your firm owns and operates at least one above ground storage tank (AST) on your rented premises. This is to advise you that you have twenty-one days from receipt of this letter to remove all ASTs from your premises.

Revocable Permits DOT 93-22 and H-06-2530 prohibit any above ground or underground storage tanks on your premises. Furthermore, the Harbors Division will be commencing a Phase 2 Environmental Site Assessment of the entire Kapalama Military Reservation shortly. The area of the existing AST will be a focus of the site assessment investigation so its removal is mandatory.

We appreciate your cooperation with this directive. Failure to comply will result in the revocation of your permit.

If you have any questions, please call Mr. Calvert Chun of our Property Management section at 587-1944.

Sincerely,

RANDY GRUNE

Deputy Director, Department of Transportation



#### STATE OF HAWAII **DEPARTMENT OF TRANSPORTATION**

HARBORS DIVISION 79 So. Nimitz Highway, Honolulu, Hawaii 96813

April 30, 2012

GLENN M. OKIMOTO DIRECTOR

**Deputy Directors** JADE T. BUTAY FORD N. FUCHIGAMI RANDY GRUNE JADINE URASAKI

IN REPLY REFER TO:

HAR-PM 5516.12

Mr. Michael Rossman Fuelman, Inc. P.O. Box 29249 Honolulu, Hawaii 96820

Dear Mr. Rossman:

Subject: Aboveground Storage Tank - Violation of Revocable Permit DOT 94-52 at Former Kapalama Military Reservation, Honolulu Harbor

It has been brought to our attention that you own and operate at least one above ground storage tank (AST) on your rented premises. This is to advise you that you have twenty-one days from receipt of this letter to remove all ASTs from your premises.

Revocable Permit DOT-94-52 prohibits any above ground or underground storage tanks on your premises. Furthermore, the Harbors Division will be commencing a Phase 2 Environmental Site Assessment of the entire Kapalama Military Reservation shortly. The area of the existing AST will be a focus of the site assessment investigation so its removal is mandatory.

We appreciate your cooperation with this directive. Failure to comply will result in the revocation of your permit.

If you have any questions, please call Mr. Calvert Chun of our Property Management section at 587-1944.

Sincerely,

RANDY GRUNE

Deputy Director, Department of Transportation



## STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

HARBORS DIVISION 79 So. Nimitz Highway, Honolulu, Hawaii 96813

April 30, 2012

GLENN M. OKIMOTO DIRECTOR

Deputy Directors
JADE T. BUTAY
FORD N. FUCHIGAMI
RANDY GRUNE
JADINE URASAKI

IN REPLY REFER TO:

HAR-PM 5517.12

Mr. Gordon Okumura, President Hawaii Transfer Company, Ltd. P.O. Box 665 Pearl City, Hawaii 96782

Dear Mr. Okumura:

Subject: Aboveground Storage Tank - Violation of Revocable Permit H-09-2654 at Former Kapalama Military Reservation, Honolulu Harbor

It has been brought to our attention that Hawaii Transfer Company, Ltd owns and operates at least one above ground storage tank (AST) on your rented premises. This is to advise you that you have twenty-one days from receipt of this letter to remove all ASTs from your premises.

Revocable Permit H-09-2654 prohibits all hazardous material on your premises <u>without the written consent of the State</u>. The AST contains hazardous materials and permission was never granted for its use. Furthermore, the Harbors Division will be commencing a Phase 2 Environmental Site Assessment of the entire Kapalama Military Reservation shortly. The area of the existing AST will be a focus of the site assessment investigation so its removal is mandatory.

We appreciate your cooperation with this directive. Failure to comply will result in the revocation of your permit.

If you have any questions, please call Mr. Calvert Chun of our Property Management section at 587-1944.

Sincerely,

RANDY GRUNE

Deputy Director, Department of Transportation



# STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION 79 So. Nimitz Highway, Honolulu, Hawaii 96813

April 30, 2012

GLENN M. OKIMOTO DIRECTOR

Deputy Directors
JADE T. BUTAY
FORD N. FUCHIGAMI
RANDY GRUNE
JADINE URASAKI

IN REPLY REFER TO:

HAR-PM 5514.12

Mr. Kevin Akana Akana Trucking, Inc. 209 Hao Street. Honolulu, Hawaii 96821

Dear Mr. Akana:

Subject: Aboveground Storage Tank – Violation of Revocable Permits DOT 94-64 and H-10-2674 at Former Kapalama Military Reservation, Honolulu Harbor

It has been brought to our attention that Akana Trucking, Inc. owns and operates at least one above ground storage tank (AST) on your rented premises. This is to advise you that you have twenty-one (21) days from receipt of this letter to remove all ASTs from your premises.

Revocable Permits DOT 94-64 and H-10-2674 prohibit any above ground or underground storage tanks on your premises. Furthermore, the Harbors Division will be commencing a Phase 2 Environmental Site Assessment of the entire Kapalama Military Reservation shortly. The area of the existing AST will be a focus of the site assessment investigation so its removal is mandatory.

We appreciate your cooperation with this directive. Failure to comply will result in the revocation of your permit.

If you have any questions, please call Mr. Calvert Chun of our Property Management section at 587-1944.

Sincerely,

RANDY GRUNE

Deputy Director, Department of Transportation



# STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION

79 So. Nimitz Highway, Honolulu, Hawaii 96813

April 30, 2012

GLENN M. OKIMOTO DIRECTOR

Deputy Directors
JADE T. BUTAY
FORD N. FUCHIGAMI
RANDY GRUNE
JADINE URASAKI

IN REPLY REFER TO:

HAR-PM 5515.12

Ms. Jane Onaga Amazon Construction, Inc. 5 Sand Island Access Road, #139 Honolulu, Hawaii 96819

Dear Ms. Onaga:

Subject: Aboveground Storage Tank – Violation of Revocable Permit DOT 96-136 at Former Kapalama Military Reservation, Honolulu Harbor

It has been brought to our attention that Amazon Construction, Inc. owns and operates at least one above ground storage tank (AST) on your rented premises. This is to advise you that you have twenty-one (21) days from receipt of this letter to remove all ASTs from your premises.

Revocable Permit DOT 96-136 prohibits any above ground or underground storage tanks on your premises. Furthermore, the Harbors Division will be commencing a Phase 2 Environmental Site Assessment of the entire Kapalama Military Reservation shortly. The area of the existing AST will be a focus of the site assessment investigation so its removal is mandatory.

We appreciate your cooperation with this directive. Failure to comply will result in the revocation of your permit.

If you have any questions, please call Mr. Calvert Chun of our Property Management section at 587-1944.

Sincerely,

RANDY GRUNE

Deputy Director, Department of Transportation



# STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION

79 So. Nimitz Highway, Honolulu, Hawaii 96813

April 30, 2012

GLENN M. OKIMOTO DIRECTOR

Deputy Directors
JADE T. BUTAY
FORD N. FUCHIGAMI
RANDY GRUNE
JADINE URASAKI

IN REPLY REFER TO:

HAR-PM 5518.12

Mr. Alan Meier Hi-Tec Roofing, Inc. 5 Sand Island Access Road, Box 157 Honolulu, Hawaii 96819

Dear Mr. Meier:

Subject: <u>Aboveground Storage Tank – Violation of Revocable Permit DOT-94-59 at</u>
<u>Former Kapalama Military Reservation, Honolulu Harbor</u>

It has been brought to our attention that Hi-Tec Roofing, Inc. owns and operates at least one above ground storage tank (AST) on your rented premises. This is to advise you that you have twenty-one days from receipt of this letter to remove all ASTs from your premises.

Revocable Permit DOT 94-59 prohibits any above ground or underground storage tanks on your premises. Furthermore, the Harbors Division will be commencing a Phase 2 Environmental Site Assessment of the entire Kapalama Military Reservation shortly. The area of the existing AST will be a focus of the site assessment investigation so its removal is mandatory.

We appreciate your cooperation with this directive. Failure to comply will result in the revocation of your permit.

If you have any questions, please call Mr. Calvert Chun of our Property Management section at 587-1944.

Sincerely,

RANDY GRUNE

Deputy Director, Department of Transportation

Mr. Marshall Joy Jem's Enterprises, LLC dba Hawaiian Ice Company 1125 North Nimitz Highway Honolulu, Hawaii 96817

Dear Mr. Joy:

Subject: Environmental Compliance Inspection Results

We are forwarding a report documenting the findings of the 2011 Storm Water Compliance Inspection for your facility. This inspection was performed in accordance with the requirements established under the Honolulu Harbor and Kalaeloa Barbers Point Harbor Small Municipal Separate Storm Sewer System (MS4) permits.

We are pleased to inform you that your facility was found to be satisfactory in meeting the minimum storm water compliance requirements. Please take the time to review the report and, if there are any, incorporate any suggestions provided to improving best management practices at your facility. The report also includes a risk ranking based on the type of operations conducted at your facility. The risk ranking will be used to determine the frequency of future inspections of your facility.

Also, please ensure that all of your employees are trained in storm water pollution prevention awareness. Educational materials were provided with the tenant self-inspection surveys sent to you earlier. If you require more materials, please contact us.

During the inspection, it was discovered that as part of your current operation you manage an 8,500-pound Aboveground Storage Tank (AST) containing Anhydrous Ammonia. Please be advised that this AST system is subject to the Hawaii Emergency Planning and Community Right-to-Know Act (HEPCRA) requirements. Under these requirements, you are required to submit a Tier Two Emergency and Hazardous Chemical Inventory Report. If you have questions regarding HEPCRA, please contact Ms. Sharon Leonida with the HDOH Hazard Evaluation and Emergency Response (HEER) Office at 586-4249.

We appreciate your cooperation in working with us to meet the requirements of the Clean Water Act and HEPCRA and to keep our ocean resources pollution-free to the best of our abilities.

If you have any questions or require further information, please contact Mr. Randal Leong of our Harbors Division Engineering Environment Section at 587-1962, or Mr. Calvert Chun of our Harbors Division Property Management Section at 587-1944.

Sincerely,

RANDY GRUNE

Deputy Director, Department of Transportation Harbors Division

Enc.

c: Mr. Mark Ambler, Weston Solutions, Inc.

bc: DEP-P, HAR, HAR-S, HAR-PM, HAR-O

JG:lm



#### STATE OF HAWAII **DEPARTMENT OF TRANSPORTATION** 869 PUNCHBOWL STREET HONOLULU, HAWAII 96813-5097

GLENN M. OKIMOTO DIRECTOR

Deputy Directors FORD N. FUCHIGAMI

RANDY GRUNE JADINE URASAKI

IN REPLY REFER TO:

HAR-PM 5524.12

May 11, 2012

Redid

Eugene Fontanilla

Sluliz Pate

Dear Mr. Fontanilla:

Aiea, Hawaii 96701

P.O. Box 26

Mr. Eugene Fontanilla Quick Move, Inc.

Subject: NOTICE OF TERMINATION - Revocable Permit No. H-98-162

By letter, dated January 23, 2012, you were informed of the results of an environmental site inspection of the premises under Revocable Permit No. H-98-162 to ensure compliance with all applicable stormwater discharge regulations. You thereupon provided an Action Plan, dated February 12, 2012, to address corrective actions to be performed and a schedule by which corrections were expected to be made. On April 27, 2012, a follow-up inspection was made to determine if corrective actions were undertaken. The following conditions were noted in the recent inspection:

- 1. At the makai corner of the property, attached to the adjacent building, there is what appears to be a type of electrical junction box (unknown, if power or communications). This area is encumbered with an array of tools, cleaning supplies, and unmarked or improperly marked containers of unknown liquids.
- 2. In this immediate area, there are numerous large accumulations of unidentifiable items. Most of the consolidated items are covered with tarpaulins. Identifiable items include portable gasoline containers, stacks of discarded tires, and other combustible debris.
- 3. One of the storage areas is adjoined to another work area by a narrow path between an inoperable van and stacks of consolidated items. Observed in this area, at the time of the visit, were four feral cats. The narrow path was littered with obvious signs of cat feces.
- 4. At another corner of the compound in this area is a metal storage rack about 25 feet high. On the top level, there are a large accumulation of pipes and other kinds of metal stock. At the middle level, there is an abandoned electric golf cart. It is estimated that the total weight of the middle and top levels is 1000 pounds. The total assembly is listing

approximately 6 feet by 10 feet out over the top of an adjacent security fence. The top rail of the security fence is supporting the storage rack. The lower level of the rack is filled with scrap lumber and other combustible debris. There is a mechanical device with a hydraulic piston covered with combustible debris. This is a potential source of a petroleum-based liquid.

- 5. Next to this area is a trailer van. Under this van is a large accumulation of discarded tires.
- 6. An aggressive, vicious dog temporarily hindered our entry into the interior of the compound. Please remove the dog.
- 7. One section of the compound has a vehicle that appears to be under repair. The work area is cluttered with extension cords, hoses, tools, and various industrial chemicals (i.e. grease, paints, and other petroleum compounds). The asphalt in this area shows obvious signs of stains and leaks from petroleum-based compounds. There is a gasoline-powered generator being used that does not have leak or drip protection.
- 8. Nearby is an automobile engine lying on the ground without leak or drip protection.
- 9. The next section of the compound is separated by a security fence with an open gate. In this area are an inoperable truck, an inoperable fork truck, and other inoperable engines. All of these items are in an advanced state of disassembly. Various chemical compounds, tools, and vehicle parts litter the area. Most items are covered with petroleum-based grime.
- 10. The ground in this immediate area is covered with oil-stained dirt and absorbent compound. This area is not covered.
- 11. Scattered throughout this area are numerous containers of Hazardous Material (HM). Most containers are rusted, damaged, or otherwise unserviceable. Most of these items could be reasonably argued to be Hazardous Waste (HW).
- 12. The inoperable truck has two lead-acid batteries still attached to the vehicle.
- 13. There are numerous compressed gas cylinders in this area. The cylinders are not properly secured or protected. The color markings on the cylinders are faded making identification of the contents practically impossible.

- 14. The interior of the trailer van was briefly observed and photo-documented. Just beyond the front entry door is a refrigerator. It is unknown if it is connected to electrical power. The overall appearance of the interior indicates that the van is being used for living quarters. The telltale stench of the interior of the van would suggest a condition with poor sanitation.
- 15. Outside of the Tenant's property and parked next to the security fence are two inoperable, and partially disassembled trucks with body parts lying on the ground. It is unknown if these items belong to Quick Move, Inc., or not.

<u>Paragraph No. 12, Waste, Strip and Nuisance; Maintenance</u> of your permit requires that the permittee shall maintain the premises in a strictly clean, neat, safe, orderly and sanitary condition, free of waste, rubbish and debris and shall provide for the safe and sanitary handling and disposal of all trash, garbage and refuse from the premises.

<u>Paragraph No. 18, Compliance with Laws</u> of your permit requires that the permittee shall comply with all laws, ordinances and rules and regulations of all governmental agencies, applicable to the premises or relating to and affecting any business or other commercial activity conducted on the premises.

The inspection noted the deplorable overall condition of the property, apparent violations of the Clean Water Act and National Pollutant Discharge Elimination System (NPDES) regulations as well as numerous safety concerns. Due to your failure to implement your Action Plan and continued disregard and failure to undertake the necessary corrective actions, you are in breach of Paragraphs No. 12 and 18 noted above.

In addition to the foregoing breaches, your account no.500064 is also delinquent with a balance outstanding of \$17,782.96 as of April 5, 2012. You are therefore also in breach of Paragraph No. 8 of your permit which requires the permittee to pay the monthly rental on the first of each and every month without notice or demand.

Paragraph No. 21, Termination and Revocation of your permit provides that the permit may be terminated by the State in the event the permittee fails to pay rental when due or for breaches of any of the terms and conditions. Accordingly, due to the multiple breaches referenced above, please be informed that Revocable Permit No. H-98-162 will be terminated, effective May 24, 2012. Termination will not relieve you of your financial obligations to clear your outstanding indebtedness as well as your responsibilities to clean and restore the premises. The State reserves all of its rights, both under the permit as well as under applicable laws, to pursue any and all remedies in addition to termination of the permit to recoup the delinquent rent, as well as any and all charges related to the clean-up and restoration of the property. The State shall also seek the recovery of any and all environmental fines and penalties imposed upon the premises caused by your use of the premises under the permit.

Please remove all your personal property, belongings and debris from the premises by May 24, 2012. Any items left on the premises after May 24, 2012 shall be deemed to be an abandonment, and the State will accomplish its disposal by its own employees or by an independent contractor and assess you for all of the costs thereof.

If you have any questions, please call Mr. Calvert Chun, Property Management Supervisor, at 587-1944.

Very truly yours,

GLENN M. OKIMOTO, Ph.D.

I lemy nune

Director of Transportation

May 21, 2012

Mr. Ty Pryne Ty Pryne dba H.B.N. 742 Queen Street, No.301 Honolulu, Hawaii 96813

Dear Mr. Pryne,

Subject: Environmental Compliance Inspection Results

We are forwarding a report documenting the findings of the 2011 Storm Water Compliance Inspection for your facility. This inspection was performed in accordance with the requirements established under the Honolulu Harbor and Kalaeloa Barbers Point Harbor Small Municipal Separate Storm Sewer System (MS4) permits.

We are pleased to inform you that your facility was found to be satisfactory in meeting the minimum storm water compliance requirements. However, we have some concerns with other observations made at the premises which are enumerated in this letter below. Please take the time to review the enclosed report and incorporate the suggestions provided to improve best management practices at your facility. The enclosed report also includes a risk ranking based on the type of operations conducted at your facility. The risk ranking is used to determine the frequency of future inspections of your facility.

Also, please ensure that all of your employees are trained in storm water pollution prevention awareness. Educational materials were provided with the tenant self-inspection surveys sent to you earlier. If you require more materials, please contact us or visit our web site at http://hawaii.gov/dot/harbors/library/storm-management-plan.

During the inspection, we noticed several other areas that warrant your immediate attention and remedial efforts to maintain compliance with additional environmental and safety requirements. Please note the following areas:

1. Numerous containers of Hazardous Material (HM) are stored throughout the property. The containers are not stored in a flammable cabinet in a central location, and no chemical inventory is available. Please be advised that all the HM must be removed from

the property as this situation is in direct violation of the terms and conditions of your revocable permit.

- 2. Two 20' containers are stacked atop each other, and the upper container is used as an office. Permanent wooden stairs were constructed to access the upper area. The stairs and upper landing do not have a railing system. This situation presents a fall hazard. Before the stairs were constructed, detailed drawings of the stairs were not provided to Harbors Division for review and approval. Immediately prepare drawings and specifications of the stairs and submit for review and approval. Install a railing system immediately.
- 3. Please be advised that a building permit may be required for the stairs. Check with the City and County Building Department for guidance on this issue.
- 4. Stored on the property is an inoperable vehicle that is not owned by your company. The vehicle fluids and battery have not been removed. Verify the status of the vehicle's registration and take appropriate action.

We appreciate your cooperation in working with us to meet the requirements of the Clean Water Act and other environmental and safety requirements to keep our ocean resources pollution-free to the best of our abilities.

If you have any questions or require further information, please contact Mr. Randal Leong of our Harbors Division Engineering Environmental Section at 587-1962, or Mr. Calvert Chun of our Harbors Division Property Management Section at 587-1944.

Sincerely

RANDY GRUNE

Deputy Director, Department of Transportation Harbors Division

Enc.

c: Weston Solutions

bc: DEP-P, HAR-PM, HAR-S, HAR-O

JG:jmo/lm



# STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

869 PUNCHBOWL STREET HONOLULU, HAWAII 96813-5097 GLENN M. OKIMOTO DIRECTOR

Deputy Directors
JADE T. BUTAY
FORD N. FUCHIGAMI
RANDY GRUNE
JADINE URASAKI

IN REPLY REFER TO:

HAR-PM 5528.12

May 22, 2012

Mr. Richard Kong, President Kong Enterprises, Inc. P.O. Box 5187 Kaneohe, Hawaii 96744

11474411

2/56/15

Dear Mr. Kong:

Subject: LETTER OF TERMINATION AND NOTICE TO VACATE

Account No. 300242

Revocable Permit No. H-07-2579

Keehi Industrial Area, Vicinity of Pier 60, Honolulu, Island of Oahu

Permittee: Kong Enterprises, Inc.

As of May 18, 2012, Kong Enterprises' outstanding, delinquent and unpaid amount owed to the Harbors Division, under Account No. 300242, has increased to a total balance of \$16,179.84, under Revocable Permit No. H-07-2579 ("RP #H-07-2579"), which balance includes the rental charges of \$4,044.96 per month for the months from February to May 2012.

In accordance with Term and Condition No. 19 of RP #H-07-2579, relating to <u>Termination and Revocation</u>, we hereby demand that Kong Enterprises remit payment in full in the amount of \$16,179.84 by Certified or Cashier's Check, payable to the Harbors Division, not later than 4:30 p.m. on Tuesday, May 29, 2012 (no less than five [5] business days after the date of this letter of termination and notice to vacate), at 79 S. Nimitz Highway, Honolulu, Hawaii 96813.

If Kong Enterprises fails to remit payment in full by 4:30 p.m. on Tuesday, May 29, 2012, in the amount of \$16,179.84, by Certified or Cashier's Check, payable to the Harbors Division, RP #H-07-2579 will be terminated as of May 29, 2012, for nonpayment of the outstanding charges. You are also hereby notified that a report on Kong Enterprises' delinquency will be submitted to the Department of the Attorney General for collection of monies owed to the Harbors Division and the commencement of other legal proceedings.

Upon the termination of RP #H-07-2579 on May 29, 2012, Kong Enterprises must: (a) totally vacate the Premises demised under said revocable permit in the Keehi Industrial area; and, (b) remove all trade fixtures, inventory, equipment, supplies, and all other personal property from the Premises demised under said revocable permit not later than 4:30 p.m. on Tuesday, May 29, 2012. A notice barring access to the subject Premises will be posted.

Further, the passing of 4:30 p.m. on Tuesday, May 29, 2012, and Kong Enterprises' failure to: (1) totally vacate the subject Premises; and, (2) remove all trade fixtures, inventory, equipment, supplies, and all other personal property from the subject Premises, may result in the Director of Transportation, State of Hawaii, his agents and/or representatives entering upon the Premises and removing and disposing of, at Kong Enterprises' sole risk and expense, all remaining trade fixtures, inventory, equipment, supplies, and all other personal property from the Premises.

No further notices relating to this letter of termination and notice to vacate will be forthcoming.

Liquidated damages may also be assessed pursuant to the covenants, terms and conditions of Kong Enterprises' revocable permit.

Lastly, and in accordance with Section 171-13, Hawaii Revised Statutes, this termination action means that Kong Enterprises will be ineligible to purchase or lease public lands, or to be granted a license, permit or easement covering public lands for a term of five (5) years from and after the date of any termination action involving a previous sale, lease, license, permit, or easement covering public lands cancelled or terminated for failure to satisfy the covenants, terms and conditions thereof.

Any termination action does not relieve Kong Enterprises from its responsibility for the full payment of all outstanding charges as of May 29, 2012.

Also, please be informed that final executions of the other two revocable permits described below were held in abeyance until the above mentioned delinquency was resolved.

Fees for Revocable Permit No. H-12-2716 for 9,067 square feet (former Poysky yard lot) in the Keehi Industrial area was paid 3 months in advance \$4,896.18 (\$1,632.06 per month) for March, April, May 2012. A \$4,896.18 payment for June, July, and August 2012 is due and must be paid by June 1, 2012, by Certified or Cashier's Check.

Fees for Revocable Permit No. H-12-2717 for 2,040 square feet (former Harbor House yard lot) in the Kapalama Military Reservation was paid 3 months in advance \$1,774.80 (\$510.00 rent per month and \$81.60 CAM per month) for March, April, May 2012. A \$1,774.80 payment for June, July, and August 2012 is due and must be paid by June 1, 2012, by Certified or Cashier's Check.

However, both of these permits contain the condition that states "PERMITTEE acknowledges that a default in the terms and conditions under ANY ONE of the PERMITTEE's Revocable Permits, shall be deemed a default under ALL of the PERMITTEE's revocable permits and the State may take action against the debtor collectively with respect to ALL of PERMITTEE's revocable permits arising from a default under ANY ONE of the PERMITTEE's revocable permits."

, , >

Therefore, if you must vacate your original permit area, then you must also vacate these additional 2 revocable permit areas, as well.

Very truly yours,

GLENN M. OKIMOTO, Ph.D. Director of Transportation

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Tum Holima -



# STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION 79 So. Nimitz Highway, Honolulu, Hawaii 96813

May 30, 2012

GLENN M. OKIMOTO DIRECTOR

Deputy Directors

JADE T. BUTAY

FORD N. FUCHIGAMI

RANDY GRUNE

JADINE URASAKI

IN REPLY REFER TO: HAR-PM 5533.12

Mr. James Sakata Erik Builders, Inc. 50-CC Sand Island Access Road Honolulu, Hawaii 96819

Subject: Environmental Assessment of Permitted Property at Keehi Industrial Lots,

Kalihi-Kai, Oahu, Tax Map Key No. 1st/1-2-23:66P; Revocable Permit

Nos. H-97-1984 and H-98-2092

Dear Mr. Sakata:

On May 21, 2012, State of Hawaii Department of Transportation Harbors Division personnel made a site visit to the permitted premises of Erik Builders, Inc. The reason for the visit was to observe and document conditions and comments made during an earlier site visit conducted by our environmental consultants, Weston Solutions, on November 22, 2011, and to observe and document Tenant compliance efforts in regard to the Terms and Conditions of Revocable Permit Nos. H-97-1984 and H-98-2092. Conducting the inspection was Mr. Jim Galariada, CSP, Environmental Health Specialist IV of Harbors Division, Engineering Environmental Section. Enclosed is the inspection report from Weston Solutions. The following conditions exist:

- 1. Throughout your permitted premises are numerous containers of various types of Hazardous Materials (HM). These containers of HM are improperly stored and managed.
- 2. A flammable cabinet is located in the general vicinity of the middle of the main building. The contents of this cabinet were not inspected during the site visit.
- 3. Paints and other flammable liquids are placed or stored directly in front of an energized electrical panel box. The panel box is not readily accessible in the event of an emergency.
- 4. On the ground throughout the work area are obvious signs of spills, stains, and accumulations of petroleum-based products.

- 5. Throughout your permitted premises are numerous improvements of substantial construction and utility. After review of our files on Erik Builders, Inc., no written request of any kind was ever submitted to Harbors Division for permission to construct these improvements.
- 6. General housekeeping throughout needs to be improved. Many of the work areas have recognizable hazardous conditions.

The above-mentioned conditions are in many cases in direct violation of the Terms and Conditions of the Revocable Permit for this property.

This letter serves notice that the PERMITTEE shall immediately effect the following <u>Corrective Actions:</u>

- 1. Remove all Hazardous Materials and suspected Hazardous Waste from the permitted premises. Remove the flammable storage cabinet.
- 2. Remove all unserviceable batteries from the permitted premises.
- 3. Remove all containers, including all 55-gallon drums that previously contained regulated substances from the permitted premises.
- 4. Remove the makeshift supporting brackets and shelving from above the storeroom door in the general vicinity of the middle of the main building on the permitted premises.
- 5. Housekeeping throughout the permitted premises is deplorable and unacceptable. Excess and unserviceable building materials and general debris create safety concerns for Slips/Trips/Falls, and can provide harbor for vermin. Restore the entire permitted premises to an aesthetically pleasing appearance.
- 6. Replace the jerry-rigged wiring, and repair all defective electrical devices throughout all structures. Provide evidence to Harbors Division that a licensed electrician is hired to perform the repairs and improvements. Provide to Harbors Division a detailed list of itemized electrical repairs. All electrical devices, fittings, and appurtenances shall meet or exceed the guidelines and standards as recommended by the National Electrical Manufacturers Association (NEMA). Alternate measures are to completely disconnect the service to this panel box and render all outgoing circuits completely inoperable.
- 7. Cease washing vehicles and equipment anywhere on the permitted premises.
- 8. All wash water used for personal cleansing shall be contained and disposed of at a permitted sanitary sewer.

- 9. Effectively clean all areas with visible petroleum hydrocarbon stains.
- 10. The stockpile of excavated soil shall remain in place while the following actions are addressed:
  - a. Completely cover the soil stockpile with a tarpaulin or other durable covering. Surround the base of the stockpile with substantial silt barriers to prevent soil and silt migration during a rain event.
  - b. Prepare a soil-sampling plan and submit to Harbors Division for review and ultimate acceptance by Hawaii Department of Health (HDOH).
  - c. After the soil-sampling plan is accepted by HDOH, collect soil samples and analyze for potential contaminants.
  - d. Provide laboratory analytical results to Harbors Division, Engineering Environmental Section for review and acceptance.
  - e. Excavate all soil in the general area where paintbrushes were previously cleaned and where painting rinsate was disposed of into stockpiled soil.
  - f. If lab results reveal that the soil is contaminated with regulated chemical constituents, please containerize all excavated soil.
  - g. Properly dispose of all excavated soil at a certified facility. Provide all disposal records and associated documentation to Harbors Division for review and verification.
- 11. The Permittee shall comply with all applicable OSHA regulations regarding workplace safety throughout the permitted premises, in that:

#### Each employer

- (1) Shall furnish to each of his employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees;
- (2) Shall comply with occupational safety and health standards promulgated under this Act.

Reference: OSH Act of 1970, Section 5 – Duties. (a.k.a. The General Duty Clause)

Failure to complete the above-mentioned Corrective Actions 1 to 11 within 20 days of the date of this letter will result in further adverse administrative action, and/or revocation of your Revocable Permit. Your immediate attention in this matter is appreciated.

If you have any questions, please call Mr. Calvert Chun of our Property Management section at 587-1944.

Sincerely,

**RANDY GRUNE** 

Deputy Director, Department of Transportation

Harbors Division

Enc.

c: Weston Solutions (Mr. Mark Ambler)



### STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION

79 So. Nimitz Highway, Honolulu, Hawaii 96813

May 30, 2012

GLENN M. OKIMOTO DIRECTOR

Deputy Directors
JADE T. BUTAY
FORD N. FUCHIGAMI
RANDY GRUNE
JADINE URASAKI

IN REPLY REFER TO:

HAR-PM 5531.12

Mr. Daniel Kahler Kumu Corporation 50-K Sand Island Access Road Honolulu, Hawaii 96819

With copy to: Mr. Daniel Kahler Kumu Corporation 91-1057 Kumimi Street Ewa Beach, Hawaii 96706

Subject: Environmental Assessment of Permitted Property at Keehi Industrial Lots,

Honolulu, Oahu, Hawaii, Tax Map Key No. 1-2-23:73P; Revocable Permit

No. H-97-1995

#### Dear Mr. Kahler:

On March 1, 2012, State of Hawaii Department of Transportation Harbors Division (Harbors Division) personnel made a visit to the premises used by Kumu Corporation permitted under Revocable Permit No. H-97-1995 (Revocable Permit). The reason for the visit was to observe and document conditions and comments made during an earlier site visit conducted on November 30, 2011, by our Environmental Consultants, Weston Solutions. Also present during that visit was Mr. Jim Galariada, CSP, Environmental Health Specialist IV with Harbors Division, Engineering Environmental Section. Enclosed is the inspection report from Weston Solutions. The following conditions exist at the permitted premises:

- Throughout your permitted premises, there are numerous containers stored, with contents
  of various types of Hazardous Materials (HM). These containers of HM are improperly
  stored and improperly managed, and in most cases, haphazardly strewn about the work
  area on the permitted premises.
- 2. It was noted that automotive parts and other mechanical appurtenances are sold as part of your normal business operation. (Are these used parts that are covered with grease or other debris that could be characterized as HM? If so, please clearly indicate and state this issue in this section.)

- 3. At the corner of the permitted premises, in an enclosed area, and partially obstructed from view, is an abandoned van. The van appears to be partially disassembled, inoperable, and in a generally poor state of repair. (Is this derelict van leaking any fluids, or is there any evidence of such fluid leaks? If so, please clearly indicate and state this situation in this section.) Strewn about this enclosed area is a large accumulation of debris, discarded automotive parts, and improperly discarded containers of HM. The general condition of housekeeping in this area is deplorable and in violation of the provisions of the Revocable Permit.
- 4. The unimproved access lane to this area originally was designed for two lanes. The original outbound lane, opposite from your permitted premises, is now completely blocked by a large accumulation of discarded vehicles, discarded tires, discarded automotive appurtenances, improperly discarded containers of HM, and other kinds of debris. Currently there is only one lane available for passage. Please understand that this current condition prevents the ready and unobstructed access by emergency vehicles should there be a need to access this area for emergency response situations. This condition presents a very serious public safety issue. (Can these discarded materials be a source of contamination of the premises caused by Hazardous Materials? If so, please clearly indicate and state this situation in this section.)

Additionally, we observed that you allow available workspace within the permitted premises to be rented out to other business enterprises that are not associated with Kumu Corporation, in a legally defined business relationship that operates as part of your normal business operation. This arrangement suggests, or actually constitutes, a sublease arrangement, which is not authorized under the provisions of the Revocable Permit.

You have stated in the past this accumulation of debris does not belong to your business, and is not a by-product of your normal business operation, and that you are not responsible for this condition. Considering the type of normal business operations that Kumu Corporation is engaged in, and the general condition of your work areas, it could be reasonably argued with prudent judgment that this debris originated from your permitted premises.

5. Throughout your permitted premises are numerous structures of substantial construction and utility. After review of our files on Kumu Corporation, no written request of any kind was ever submitted to Harbors Division, Engineering Branch, for permission to construct these improvements.

The above-mentioned conditions are in many cases in direct violation of the Terms and Conditions of the Revocable Permit for this property.

This letter serves notice that the PERMITTEE shall immediately effect the following corrective actions:

- 1. Remove in the proper manner, in accordance with EPA regulations, all Hazardous Materials and all suspected Hazardous Waste from the permitted premises.
- 2. Remove in the proper manner, in accordance with applicable City & County of Honolulu Ordinances and in accordance with applicable Hawaii Revised Statutes, the derelict vehicle that is presently stored on the permitted premises, and remove and thoroughly clean this immediate area of all debris.
- 3. Remove in the proper manner, in accordance with applicable City & County of Honolulu Ordinances and in accordance with applicable Hawaii Revised Statutes, the large accumulation of discarded vehicles, discarded tires, discarded automotive appurtenances, improperly discarded containers of HM, and other kinds of debris from the unimproved access lane directly adjacent to the permitted premises.
- 4. Cease and terminate any and all sub-leasing activities and evict all unauthorized Tenants and businesses from the permitted premises that are not in a legally defined business relationship that operates as part of your normal business operation.
- 5. Remove all structures and improvements from the permitted premises that were constructed without obtaining authorization for their construction from the Harbors Division.
- 6. Arrange for a qualified Environmental Services firm to conduct the appropriate tests including obtaining soil samples to determine if any contamination from Hazardous Materials is present on the permitted premises.

In addition to the foregoing breaches, your account with the Harbors Division Customer Account No.1009380 is delinquent as of May 17, 2012, with a balance outstanding of \$11,298.17.

<u>Paragraph No. 19, Termination and Revocation</u> of your permit provides that the State may terminate your permit upon five (5) calendar days written notice in the event the permittee fails to pay the rental when due or otherwise breaches any of the terms and conditions.

Accordingly, due to the multiple breaches referenced above, please be informed that by **June 11**, **2012**, the rental delinquency must be cured and the six corrective actions described above must be completed and satisfactorily resolved; otherwise, Revocable Permit No. H-97-1995 will be terminated.

Termination of Revocable Permit No. H-97-1995 will not relieve you of your financial obligations to clear your outstanding indebtedness, nor will it relieve you of your responsibilities to properly clean-up any and all Hazardous Materials and any contamination present on the premises caused by such Hazardous Materials and to properly restore the premises. The State reserves all of its rights, both under the permit as well as under applicable laws, to pursue any and all remedies in addition to termination of the permit to recoup the delinquent rent, as well as any and all charges related to the clean-up and restoration of the property. The State shall also seek the recovery of any and all environmental fines and penalties imposed upon the premises caused by your use of the premises under the permit.

If you have any questions, please call Mr. Calvert Chun of our Property Management section at 587-1944.

Sincerely,

RANDY GRUNE

Deputy Director, Department of Transportation Harbors Division

Enc.

c: Weston Solutions (Mr. Mark Ambler)



## STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION 79 So. Nimitz Highway, Honolulu, Hawaii 96813

May 30, 2012

GLENN M. OKIMOTO DIRECTOR

Deputy Directors
JADE T. BUTAY
FORD N. FUCHIGAM
RANDY GRUNE
JADINE URASAKI

IN REPLY REFER TO:

HAR-PM 5532.12

Mr. Mervyn Lee, Esq. Attorney for the Family of the late Richard M. Masuda 169 S. Kukui Street, Suite 202 Honolulu, Hawaii 96813

With a copy to: Richard K. Masuda Masonry 833 Ekoa Place Honolulu, Hawaii 96821

Subject: Environmental Assessment of Permitted Property at Keehi Industrial Lots,

Honolulu, Oahu, Hawaii, Tax Map Key No. 1-2-23:74P; Revocable Permit

No. H-97-1987

Dear Mr. Lee:

Please convey to the Richard K. Masuda family our condolences at the passing away last year of Mr. Masuda. Also, please share our apologies for the delay in responding to your letter, dated August 11, 2011.

Due to Mr. Masuda's passing, we feel that the appropriate action would be to close-out and terminate the permit to the Richard K. Masuda Masonry (Masuda Masonry). Concurrently, Mr. Alan Shintani may submit an application for the premises which will be evaluated separately.

While we do not wish to appear insensitive, there are serious environmental matters related to the permitted property. Before the Masuda Masonry permit can be closed out, these environmental matters will need to be addressed.

On April 25, 2012, State of Hawaii Department of Transportation Harbors Division (Harbors Division) personnel made a visit to the premises used by Masuda Masonry, permitted under Revocable Permit No. H-97-1987. The purpose of the visit was to observe and document the environmental conditions that exist at this location. Present during the visit were Mr. Jim Galariada, Environmental Health Specialist, Harbors Division, Engineering Environmental Section, and Mr. Joseph Weidenbach, Environmental Consultant with Weston Solutions.

Enclosed is the inspection report from Weston Solutions. The following conditions exist at the permitted premises:

- 1. Throughout the premises there are numerous containers of improperly and haphazardly stored Hazardous Materials (HM). In this situation, it is impossible to ensure the chemical compatibility of the contents of each container.
- 2. Most of the containers of HM are in generally poor condition and unserviceable. Containers are rusted, damaged, have missing or indiscernible labels, and contents are leaking to the ground.
- 3. A wooden shed is used for the storage of a large quantity of unknown HM. The shed is not marked with any type of warning signs. In the event of a fire, fire suppression equipment is not available.
- 4. Combustible debris is strewn throughout the premises, and in many areas co-mingled with unidentified HM.
- 5. Two gasoline-powered cement mixers are stored without cover. It is unknown if the engines still contain any fluids. These machines are stored without drip pans.
- 6. An abandoned pleasure boat is stored on the premises. The boat appears to be inoperable and in a partial state of disrepair.
- 7. There are instances where HM is stored with general building material. The physical configuration of these storage areas are unstable and present a hazardous condition for workers responding to the premises.
- 8. A front-end loader, belonging to Alan Shintani, Inc., is parked on the premises. The equipment is parked without drip pans.
- 9. A makeshift latrine and shower was constructed on the site without the prior written approval of the Harbors Division. The wastewater drains to an unknown location.

The above-mentioned conditions are in many cases in direct violation of the Terms and Conditions of the Revocable Permit for this property.

We ask that the PERMITTEE immediately effect the following corrective actions:

- 1. Remove the pleasure boat from the permitted premises. Remove the two cement mixers from the permitted premises. Remove the front-end loader belonging to Alan Shintani, Inc., from the permitted premises.
- 2. Remove all scrap metal, scrap lumber, and other combustible material from the permitted premises.
- 3. Remove in the proper manner, in accordance with EPA regulations, all Hazardous Materials and suspected Hazardous Waste from the permitted premises.
- 4. Provide for and accomplish the reorganization of all useable building material into a useable storage configuration that will be stored in such a way as to preclude any recognized hazardous conditions.
- 5. Clear the permitted premises of all overgrown vegetation and unsightly brush to render the premises in a pleasantly aesthetic appearance.
- 6. Arrange for and conduct soil sampling to determine if any hazardous contaminates are present on the permitted premises.
- 7. Immediately cease using the makeshift latrine and shower unless it can be established that the system is connected to a septic system permitted by the Hawaii Department of Health. If the latrine is not connected to a permitted septic system, immediately disconnect the water supply to this structure. Cap the water supply line, or render the service valve inoperable, and remove the structure from the permitted premises.

We ask that the corrective actions 1 to 7 above be completed by June 18, 2012. Your immediate attention in this matter is appreciated.

If you have any questions, please call Mr. Calvert Chun of our Property Management section at 587-1944.

Sincerely,

RANDY GRUNE

Deputy Director, Department of Transportation

Harbors Division

Enc.

c: Weston Solutions (Mr. Mark Ambler)

GLENN M. OKIMOTO

DIRECTOR

Deputy Directors

JADE T. BUTAY

FORD N. FUCHIGAMI

RANDY GRUNE

JADINE URASAKI

NEIL ABERCROMBIE GOVERNOR



### STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION

79 So. Nimitz Highway, Honolulu, Hawaii 96813

IN REPLY REFER TO: HAR-PM 5535.12

June 5, 2012

Mr. Norman Ishikawa and Mrs. Dolores Ishikawa dba Norman's Tractor Service PO Box 2280 Ewa Beach, Hawaii 96706

Subject: Environmental Assessment of Permitted Property at Keehi Industrial Lots, Honolulu, Oahu, Tax Map Key No.1-2-23-36; Revocable Permit No. H-97-1988

Dear Mr. and Mrs. Ishikawa:

On November 21, 2011, a site visit was made to the permitted premises of Norman's Tractor Service. The reason for the visit was to observe and document environmental compliance efforts in regard to all applicable storm water discharge regulations required by the Hawaii Department of Health; and to observe and document Tenant compliance efforts in regard to the Terms and Conditions of the Revocable Permit. Conducting the inspection was Mr. Joseph Weidenbach, of Weston Solutions, environmental consultants for Hawaii Department of Transportation, Harbors Division, Engineering Environmental Section. Enclosed is the inspection report from Weston Solutions. The following conditions exist:

- 1. Throughout your permitted premises are numerous containers of various types of Hazardous Materials (HM). These containers of HM are improperly stored and managed.
- 2. Two 1000-gallon Above Ground Storage tanks (AST) are used in the normal course of your business operations. The AST are improperly installed and managed according to prevailing industry standards. The AST contains an HM Diesel.
- 3. Throughout your permitted premises are numerous structures of substantial construction and utility. After review of our files on Norman's Tractor service, no written request of any kind was ever submitted to Harbors Division, Engineering Branch for permission to construct these improvements.
- 4. General housekeeping throughout needs to be improved. Many of the work areas have recognizable hazardous conditions.

The above-mentioned conditions are in many cases in direct violation of the Terms and Conditions of the Revocable Permit for this property.

The PERMITTEE shall immediately affect the following Corrective Actions:

- Remove all Hazardous Materials and suspected Hazardous Waste from the permitted premises.
- 2. Remove the AST and all associated systems and appurtenances.
- 3. Remove all structures and improvements from the permitted premises.
- 4. Arrange for and conduct soil sampling to determine if any hazardous contaminates are present on the permitted premises.
- 5. The Permittee shall comply with all applicable OSHA regulations regarding workplace safety, in that:
  - (a) Each employer --
  - shall furnish to each of his employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees;
  - (2) shall comply with occupational safety and health standards promulgated under this Act.

Reference: OSH Act of 1970, Section 5 - Duties. (a.k.a. The General Duty Clause)

Failure to complete the above-mentioned Corrective Actions 1 to 5 within 20 days of the date of this letter will result in further adverse administrative action, and/or revocation of your Revocable Permit. Your immediate attention in this matter is appreciated.

If you have any questions, please call Mr. Calvert Chun of our Property Management Section at 587-1944.

Sincerely

RANDY GRUNE

Deputy Director, Department of Transportation

Harbors Division'

Enc.

c: Weston Solutions (Mr. Ambler)

bc: HAR-S, HAR-EE, HAR-O

CC:wh/br



#### STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION 79 So. Nimitz Highway, Honolulu, Hawaii 96813

June 5, 2012

AR-EE

GLENN M. OKIMOTO

Deputy Directors
JADE T. BUTAY
FORD N. FUCHIGAMI
RANDY GRUNE
JADINE URASAKI

IN REPLY REFER TO: HAR-PM 5539.12

Mr. Lincoln Timothy Saito dba Kokua Recycle 1059 12th Avenue, #B Honolulu, Hawaii 96816

Subject: Environmental Assessment of Permitted Property at Keehi Industrial Lots,

Kalihi-Kai, Honolulu, Oahu, Tax Map Key No. 1st/1-2-23: 47; Governor's

Executive Order No. 3708, Revocable Permit No. H-07-2577

Dear Mr. Saito:

On May 31, 2012, a visit was made to the permitted premises of Kokua Recycle. The reason for the visit was to observe and document Tenant compliance efforts in regard to the Terms and Conditions of the Revocable Permit. Conducting the inspection was Mr. Jim Galariada, CSP, Environmental Health Specialist IV of Harbors Division, Engineering Environmental Section, and Mr. Calvert Chun, Property Management Supervisor, Harbors Division, Property Management Section. Enclosed is the inspection report from Weston Solutions. The following conditions exist:

- Throughout your permitted premises are numerous containers of various types of
  Hazardous Materials (HM). These containers of HM are improperly stored and managed.
  Many of the containers are severely damaged, and the contents cannot be determined.
  Some of the discarded containers are placed in rubbish receptacles that suggests improper disposal.
- 2. On the ground throughout the work area are obvious signs of spills, stains, and accumulations of petroleum-based products.
- 3. Discarded tires are strewn throughout the permitted premises.
- 4. Two automotive lead-acid batteries are placed on the ground without containment or cover of any kind.
- 5. Throughout your permitted premises are numerous improvements of substantial construction and utility. One makeshift structure seems to be used as a recreation room. After review of our files on Kokua Recycle, no written request of any kind was ever submitted to Harbors Division for permission to construct these improvements.

- General housekeeping throughout the permitted premises needs to be improved. Many of the work areas have recognizable hazardous conditions such as several extension cords strewn about the work area.
- 7. Large accumulations of excess building material and other types of combustible material are stored throughout the permitted premises. Adequate fire suppression equipment is not readily available at or near the sources of combustion.
- 8. Two forklifts are stored on the permitted premises. The forklifts are in a state of partial disassembly and inoperable, and are leaking petroleum-bases fluid on to the ground.
- 9. A derelict van is stored on the permitted premise. It is used for storage of various kinds of discarded items and other debris.
- 10. A derelict moped is stored on the permitted premises. It is unknown if the fluids or battery have been removed.

The above-mentioned conditions are in direct violation of the Terms and Conditions of the Revocable Permit for this property. The PERMITTEE shall immediately affect the following Corrective Actions:

- 1. Remove all Hazardous Materials and suspected Hazardous Waste from the permitted premises.
- 2. Remove all unserviceable vehicles and equipment from the permitted premises.
- 3. Remove the makeshift structure that is used as a recreation room.
- 4. Housekeeping throughout the permitted premises is deplorable and unacceptable. Excess and unserviceable building materials and combustible debris creates safety concerns for fire hazards, and can provide harbor for vermin. Remove all debris and restore the entire permitted premises to an aesthetically pleasing appearance.
- 5. Effectively clean all areas with visible stains from petroleum-based products.
- 6. The Permittee shall comply with all applicable OSHA regulations regarding workplace safety throughout the permitted premises, in that:
  - (a) Each employer --
  - shall furnish to each of his employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees;

(2) shall comply with occupational safety and health standards promulgated under this Act.

Reference: OSH Act of 1970, Section 5 - Duties. (a.k.a. The General Duty Clause)

Failure to complete the above-mentioned Corrective Actions 1 to 6 within 20 days of the date of this letter will result in further adverse administrative action, and/or revocation of your Revocable Permit. Your immediate attention in this matter is appreciated.

If you have any questions, please call Mr. Calvert Chun of our Property Management Section at 587-1944.

Sincerely,

RANDY GRUNE

Deputy Director, Department of Transportation Harbors Division

Enc.

c: Weston Solutions (Mr. Mark Ambler)

bc: HAR-S, HAR-EE, HAR-O

CC:wh/br