# **Annual Compliance Report 2010**

Honolulu Harbor, Hawaii



## **Prepared for**

Hawaii Department of Transportation Harbors Division

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"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature	Date	
Authorized Representative of Harbors Division		

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#### LIST OF ACRONYMS AND ABBREVIATIONS

ACR Annual Compliance Report

BMP Best Management Practice

CFR Code of Federal Regulations

Co. Company

CSRCP Construction Site Runoff Control Program

CWB Clean Water Branch
dba Doing Business As

EMS Environmental Management System Manual

HAR Hawaii Administrative Rules

HAR-EE Harbors Division Environmental Engineering Section

HAR-OE Harbors Division Oahu District Enforcement

HDOH Hawaii Department of Health

HDOT Hawaii Department of Transportation

Honolulu Honolulu Harbor Marine Traffic Control Tower

Tower

HRS Hawaii Revised Statutes

ICC International Coastal Cleanup

IEP Inspection and Enforcement Plan

IDDE Illicit Discharge Detection and Elimination

Inc. Incorporated

LIDS Low Impact Development Standards

LLC Limited Liability Corporation

Ltd. Limited

MEP Maximum Extent Practicable

MS4 Municipal Separate Storm Sewer System

NA Not Applicable

NGPC Notice of General Permit Coverage

NOI Notice of Intent

NPDES National Pollutant Discharge Elimination System

NSWD Non-Stormwater Discharge

### LIST OF ACRONYMS AND ABBREVIATIONS, CONTINUED

ORI Outfall Reconnaissance Inventory

STOP Stop the Ocean Pollution

SWMP Stormwater Management Plan

SWPPP Stormwater Pollution Prevention Plan

TBD To Be Determined

TMK Tax Map Key

TRP Tenant Revocable Permit

TSI Tenant Self-Inspection

USEPA U.S. Environmental Protection Agency

WEE Wikoliana Educational Excursions

WESTON Weston Solutions, Inc.

#### 1.0 INTRODUCTION



The Hawaii Department of Transportation (HDOT), Harbors Division has developed this Annual Compliance Report (ACR) for the Hawaii Department of Health (HDOH) in accordance with its Notice of General Permit Coverage (NGPC), permit number HI03KB482. The ACR details activities conducted by Harbors Division to comply with the requirements of its permit and to keep a record of progress toward yearly goals.

The ACR follows the format and organization of the Storm Water Management Plan (SWMP) to facilitate comparison between planned activities and activities that were accomplished. The ACR describes efforts made by Harbors Division to implement the six

minimum control measures established by the United States Environmental Protection Agency (USEPA) and as required by the Hawaii Administrative Rules (HAR) 11-55 Appendix K and the NGPC. This report identifies activities completed during calendar year 2010 and presents areas that will be addressed in calendar year 2011. The following is included in this ACR:

- ✓ Status of Compliance;
- ✓ Assessment of the SWMP minimum control measures:
  - Public outreach and education,
  - Public involvement/participation,
  - Illicit discharge detection and elimination,
  - Construction site runoff control,
  - Post-construction stormwater management in new development and redevelopment;
  - Pollution prevention/good housekeeping;
- ✓ Modifications to the SWMP:
- ✓ Summary of Planned Activities;
- ✓ Modifications to the Small Municipal Separate Storm Sewer System (MS4); and
- ✓ Summary of Future and Expended Budget Requirements.



It is the intention of HDOT Harbors that this ACR demonstrates compliance with the following regulations listed in the NGPC:

- ✓ HAR, Chapter 11-55, Appendix K, National Pollutant Discharge Elimination System (NPDES) General Permit Authorizing Discharges of Storm Water and Certain Non-Storm Water Discharges from Small Municipal Separate Storm Sewer Systems;
- ✓ HAR, Chapter 11-55, Appendix A, HDOH, Standard General Permit Conditions; and



✓ HAR, Sections 11-55-34.04(a), 11-55-34.07, 11-55-34.11, 11-55-34.12, and other applicable Sections of HAR, Chapter 11-55.

#### 1.2 STATUS OF COMPLIANCE

HAR Chapter 11-55 Appendix K authorizes discharges of storm water and certain non-stormwater discharges from small MS4s. Prior NGPC for the storm drain system was granted by HDOH in a letter dated May 19, 2003. The expiration date of that NGPC was November 19, 2007. However, in a letter dated October 19, 2007 HDOH provided for an extension of the NGPC until a notice of renewed coverage under the applicable general permit is issued or until HDOH notification is received. This extension is in accordance with HAR, Chapter 11-55-34.09(d). The original permit and letter of extension can be found in Appendix A of this document.

#### 1.3 SWMP PERFORMANCE EVALUATION

A process for conducting an annual performance and effectiveness evaluation of the SWMP has been developed and included in this ACR. This evaluation addresses specific direct and indirect measurements in order to track the long-term progress of the SWMP towards achieving improvements in water quality.

The SWMP contains Best Management Practice (BMP) tables that outline activities that are either occurring or will be implemented in the future to ensure each of the minimum control measures are being implemented. Each BMP task is assigned a specific evaluation indicator, milestone, time frame/due date, and responsible party. The ACR is structured such that each section and BMP table corresponds with those in the SWMP. This allows the ACR to be used as an evaluation tool, addressing conformance with established performance standards, quantitative monitoring, estimates of pollutant load reductions or increases, and detailed accounting of SWMP accomplishments.

As trends are detected and the usefulness of specific BMPs or their evaluation indicators become apparent, the SWMP will be modified to ensure the program is protective of the receiving water.

The 2009 SWMP and ACR establish a baseline from which evaluations in future ACRs can be made. Harbors has committed resources to executing programs described in the 2009 SWMP, and will continue each year to implement new initiatives based on available budget and resources. All ongoing and new activities will be reported in the ACR.

#### 2.0 PUBLIC EDUCATION AND OUTREACH



#### **Permit Requirements**

City and County of Honolulu Stormwater Stenciling, 2009

HAR, Chapter 11-55, Appendix K, Part 6(a)(1). Develop and implement a public education program to distribute educational materials to users of the small municipal separate storm sewer community or conduct equivalent outreach activities emphasizing each of the following:

- (B) Hazards associated with illicit discharges, and
- (A) Impacts of stormwater discharges on water bodies,
- (C) Measures the users of the permittee's small municipal separate storm sewer system can take to reduce pollutants in stormwater runoff, including, but not limited to, minimizing fertilizer application and practicing proper storage and disposal of chemicals and wastes.

#### 2.1 TENANT EDUCATION AND OUTREACH

Harbors Division requires tenants to reduce to the maximum extent practicable (MEP) pollution in stormwater discharges and effectively prohibit unauthorized non-stormwater discharges into the MS4 through its tenant lease agreements and Tenant Revocable Permit (TRP), which are attached as Appendix B.

An inventory of tenants at Honolulu Harbor is kept on file at Harbors Oahu District Environmental Section and has been updated this year to include all current tenants. The tenant inventory identifies primary and alternate environmental contacts for each tenant. Personnel identified in the inventory are deemed responsible for implementation of storm water protection measures and BMP requirements at their facility. Please see BMP 2-1. The tenant inventory can be found in Appendix C, and has been updated to reflect changes from 2009. A summary of the tenant changes is also presented on Table 2-1.

**Table 2-1 Updates to Tenant Inventory** 

Tenant	Status	Reason
Aloha Tower Development Corporation	Removed	No longer leases property from Harbors.
American Divers, Incorporated (Inc.)	Removed	Name is no longer used; is now American Marine Corporation.
Bering Sea Eccotech, Inc.	Removed	No longer leases property from Harbors.
Can-Am Coating, Inc.	Removed	No longer leases property from Harbors.
City and County of Honolulu, Department of Transportation Services	Removed	No longer leases property from Harbors.
Container Storage Company of Hawaii, Inc.	Removed	Duplicate of Frank P. White Jr. Properties doing business as (dba) Container Storage Co.
Earth Tech, Inc.	Removed	No longer leases property from Harbors.
Ed Yamashiro, Inc.	Removed	Not a Harbors tenant.
EKNA Services	Removed	Not a Harbors tenant.
Five Star Roofing, Limited Liability Corporation (LLC)	Removed	No longer leases property from Harbors.
Fourth Mate Production, LLC	Removed	No longer leases property from Harbors.
G.W. Killebrew Company (Co.), Inc.	Removed	No longer leases property from Harbors.
GMB Vinyl, Inc. dba GMB Vinyl Fencing	Removed	No longer leases property from Harbors.
Hawaii Maritime Center	Combined	Same organization as "Friends of Falls of Clyde". Entered into the database as Friends of Falls of Clyde.
Hawaii Superferry	Removed	No longer lease property from Harbors.
		Combined in the database as Hawaiian Cruises dba Atlantis Cruises.
Atlantis Cruises and Hawaiian Cruises	Combined	Note: in the 2009 ACR Atlantis Cruises and Atlantis Submarines were combined, however they will remain separate in the 2010 ACR as they have separate TRPs.
Honolulu Agency, Inc. & Oceanic Global Trading	Removed	No longer leases property from Harbors.

Tenant	Status	Reason
Imperium Renewable Hawaii LLC	Removed	No longer leases property from Harbors.
Island Beach Activities	Removed	No longer leases property from Harbors.
Joslin Service Corporation	Removed	No longer leases property from Harbors.
Kapalama Federal Credit Union	Removed	No longer leases property from Harbors.
Ko Olina Marina, LLC	Removed	Not a Harbors tenant.
MC & A, Inc.	Removed	No longer leases property from Harbors.
Mid Pac Petroleum	Removed	No longer leases property from Harbors.
Miller/Watts Constructors, Inc.	Removed	No longer leases property from Harbors.
Murao, Joy P., dba RJ Lunchwagon	Removed	No longer leases property from Harbors.
Newport Pacific Cabinets, Inc.	Removed	No longer leases property from Harbors.
Pacific Rim Trading Group, Limited (Ltd.)	Removed	No longer leases property from Harbors.
RSI Roofing and Building Supply	Removed	No longer leases property from Harbors.
Servco Pacific, Inc.	Removed	No longer leases property from Harbors.
David D. Chang and Eun Ik Chang, Shin Woo Corporation, Jeonju Makeolli US Company	Combined	The three names have the same location and owner. Entered into the database as David D. Chang and Eun Ik Chang dba Shin Woo Corporation
Suematsu, Nora dba United Equipment	Removed	No longer leases property from Harbors.
Transmarine Navigation Corporation	Removed	Not a Harbors tenant.
United Excavation Equipment Corporation	Removed	No longer leases property from Harbors.
Waikiki Marine Sales	Removed	No longer leases property from Harbors.
White Publishing Company	Removed	No longer leases property from Harbors.

Harbors Division sends out an annual mailing to Small MS4 users in order to educate them on storm water quality issues, and collect data on tenant operations for updating the database. The 2010 mailing was sent on 27 September and included:

- A cover letter from the HDOT Harbors Administrator
  - Defined the regulatory background
  - Invited all tenants to attend Tenant Storm Water Pollution Prevention Awareness Training
  - o Informed all tenants of the anticipated inspection schedule
- The Tenant Self-Inspection (TSI) form
  - Returned forms utilized for updating and tracking tenant operations and contact information
- The tenant inspection checklist
  - o Provide advanced understanding of the inspection requirements
  - Allowed tenants to review and ask questions or seek further guidance prior to the inspections
- New BMP flyers
  - "Vehicle and Equipment Washing" Flier. The flier describes the flow pathway of pollutants into the storm drains, the responsibility of tenants to operate within parameters of the Harbors SWMP, and solutions the tenant may implement to stay in compliance.
  - o "Vehicle and Equipment Fueling" Flier. The flier describes administrative and structural controls that are required to be implemented in order to prevent the flow of fuel-related pollutants into the storm drains.

A copy of this mailing and its attachments can be found in Appendix D. The updated TSI database for Honolulu Harbor is found in Appendix E. Future tenant mailings will be updated with new BMP flyers based on findings from the annual tenant inspections.

On November 3 and 5, 2010 Harbors Division held annual tenant educational workshops entitled, "Tenant Storm Water Pollution Prevention Awareness Training." The agenda included background on applicable regulations presented by a HDOH Clean Water Branch representative, followed by Harbors General Permit requirements for Small MS4s, information on pollution prevention and good housekeeping, notification of upcoming facility inspections, the structure of the Inspection and Enforcement Program (IEP), emergency contact information, and a question and answer session. A copy of the presentation and tenant attendance record are provided as Appendix F.

Harbors Division has maintained a hotline for storm water information and discharge reporting since October 22, 2009. Please see BMP 2-1. The hotline is reachable by dialing (808)-587-1962. The hotline number is a direct line to the Harbors Division Environmental Engineer. Harbors Environmental Section maintains records of calls, follow-up inspection dates and findings, enforcement actions taken, and resolutions in the Harbors Environmental Engineering (HAR-EE) Spill Documentation Form. Although no calls were received from the public, calls from the

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Honolulu Marine Traffic Control Tower (Honolulu Tower) were received as required notification after environmental incidents, which were recorded in the spill documentation form. Please see Appendix L for the Honolulu Tower Log and Appendix G for the HAR-EE Spill Documentation Forms.

### **BMP 2-1 Tenant Education and Outreach**

- Goals: 1) Generate tenant awareness of stormwater pollution.
  2) Engage tenant interest in preventing stormwater pollution.
  3) Promote positive tenant behavior changes that reduce pollution or opportunities for pollution.

	Evaluation Indicators (or				
Activity	Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Update mailing items as outreach and education problem areas are identified and	Percentage of problem areas in education/outreach addressed by updated materials	100% of identified problem areas updated	Sept 2010	Weston Solutions, Inc. (Weston)	Items were updated to include vehicle fueling and washing.
recorded	Percentage of tenants' feedback about the updates that are positive	At least 50% of feedback positive	Not Applicable (NA)	Harbors Environmental Section	No feedback received.
Review TSI responses from tenants	Percentage of tenants responsive to the TSI Form	Greater than 90% of tenants	Ongoing	Harbors Environmental Section	To Be Determined (TBD) by December 2011.
Mail educational materials and reporting contacts to tenants	Number of educational materials distributed	100% of tenants received educational materials and reporting contacts	Sent Sept 2010. Registered mail receipt date varies	Harbors Environmental Section	206 mailings were sent (Honolulu and Kalaeloa Barbers Point Harbors)
	Responses on TSI Form show improvement in storm water awareness	Completeness of TSI forms increasing from previous year	Registered mail receipt varies	Harbors Environmental Section	Include TSI guidance with 2011 flyer
Establish a reporting/complaint tracking system to log response & enforcement activity	Create a hotline system for reporting violations and answering questions	Create and maintain one hotline number	22 Sept 2009	Harbors Environmental Section	Hotline established.
	Number of informational inquiries received via hotline	Number of inquiries increased from previous year	NA	Harbors Environmental Section	No inquiries, however 21 notifications from the Honolulu Tower were received.
	Number of hours to respond to complaint from time call is received.	Respond to all reporting/complaints within 24 hrs to minimize water quality impacts or recurrent dumping	NA	Harbors Environmental Section	Not tracked.

#### 2.2 GENERAL PUBLIC EDUCATION AND OUTREACH

Public education aims to create awareness and prompt behavioral changes. Equipped with information, the public will be less likely to contribute to water pollution as they will be able to

make informed choices. Educating the public with this knowledge and contact information for appropriate authorities will increase the likelihood that a violation or accidental release will be reported. The responsibility for tenant and public education falls under the HDOT Harbors Division Environmental Engineering Section.

Public education activities includes posting signs that advise against dumping or discarding inappropriate materials where they may be carried into Harbor waters. Signs are posted at visible public locations, such as harbor entrances, comfort stations, meeting areas, and garbage collection stations. Please see BMP 2-2.

The Harbors storm water website is under construction, but currently provides information about water quality issues, emergency reporting numbers, and links to useful sections of the USEPA website. Please see BMP 2-2. The website can be accessed at <a href="http://hawaii.gov/dot/harbors">http://hawaii.gov/dot/harbors</a>.

Although no ad was placed in 2010, Harbors Division will continue to foster relationships with other State agencies and develop new programs for public education and outreach in 2011.



Ad placed in Honolulu Advertiser

In 2010 two Harbors tenants, Friends of Falls of Clyde and Wikoliana Educational Excursions (WEE), solicited volunteers for several large-scale activities, some of which are international endeavors to improve public awareness of coastal areas. The activities that occurred during 2010 are:

- ✓ International Coastal Cleanup (ICC) September 25, 2010. A volunteer organization sponsored by the Ocean Conservancy that solicits participation from over 100 countries around the world, and in 2009 collected 6.7 million pounds of debris. The local theme for the ICC is "Get the Drift and Bag It."
- ✓ Stop the Ocean Pollution (STOP) April 4<sup>th</sup>, 2010. A volunteer storm drain stenciling and monitoring program that collects data for the ICC, which is a global volunteer organization sponsored by the Ocean Conservancy. STOP is also supported by large Harbors tenants such as Young Brothers that provide stencils for volunteers. The volunteers are primarily students from local schools.
- ✓ Keep America Beautiful A cigarette and litter clean up activity that identified bus stops as key areas on Harbors where litter and cigarette filters accumulate.



✓ Great American Cleanup – WEE solicited help from Harbors Division, Navy Seals, Navy Divers, and local crane operators to remove debris from the harbor floor on Worlds Ocean Day.

A flyer and volunteer sign-in sheet are included as Appendix H. In 2011 Harbors tenants hope to participate in the Urban Waters International Coastal Cleanup, a program sponsored by both the EPA and the Ocean Conservancy similar to the ICC with an emphasis on Urban Waters.

#### BMP 2-2 General Public Education and Outreach

Goals: 1) Generate tenant awareness of stormwater pollution.

- 2) Engage tenant interest in preventing stormwater pollution.
- 3) Promote positive tenant behavior changes that reduce pollution or opportunities for pollution.

Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Post or construct signage at visible public locations	Visible areas covered by "No Dumping" signs	Signs are hung at additional visible public locations	NA	Harbors Environmental Section	Tenant inspections identified optimal public locations for signs. Signs will be created and posted in 2011
	Storm drains with "flows to ocean" stenciling	Number of drains stenciled	NA	Harbors Environmental Section	Collected contact information for tenant volunteers for stenciling activity. Activity to be held in 2011.
	Track the amount of inappropriate materials dumped and correlate this data to the timing of public sign posting to gauge any change of public behaviors over time	The amount of polluting material generated by dumping or discarding has been reduced	NA	Harbors Environmental Section	Identified ICC data cards as potential source of tracking.
Create/update runoff water quality presentations on Harbors Division website	Create/update presentation and post to website	Presentation is posted	Ongoing	Weston/Harbors Environmental Section	Presentation created and will be posted in 2011.

Goals: 1) Generate tenant awareness of stormwater pollution.

- 2) Engage tenant interest in preventing stormwater pollution.
- 3) Promote positive tenant behavior changes that reduce pollution or opportunities for pollution.

Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Measure dissemination and effectiveness of water quality presentation	Percentage increase in presentation viewing, measured by number of hits on presentation website	Increase viewing from previous year	TBD	Harbors Environmental Section; Harbors web master	Website not yet complete, however 15 tenants were emailed the presentation directly upon request.
Set up and solicit a volunteer cleanup or storm drain stenciling activity	Participation in activities.	At least one of the listed activities	25 September 2010	Harbors Division	Volunteer solicitation conducted and activity will be implemented in 2011
	Number of employee and public participants	An increase in participation from previous year	25 September 2010	Harbors Tenants, the public	Tenant solicitation during training resulted in increased volunteer commitment
Post public awareness advertisement in local newspaper or magazine to educate the general public on storm water pollution control	Number of advertisements sponsored	One per year	NA	Harbors Environmental Section	No advertisement posted in 2010.

#### 2.3 VESSEL OPERATORS EDUCATIONAL PROGRAM

Outreach to vessel operators docking at Harbors Division facilities ensures awareness of potential pollutant sources associated with vessel operation in the harbor, including vessel equipment wash water and polluted deck wash-down water, and vessel maintenance. A used oil educational flier was distributed to vessel operators and is available in the 2009 SWMP.

Marine Cargo Specialists monitor loading and unloading procedures for the major vessels in the Harbor. Their duties include tracking compliance with various aspects of the process including stormwater pollution control compliance. Harbors is developing a tracking system for Marine Cargo Specialist monitoring records, which will include storm water observations. The monitoring records will be tracked following Marine Cargo Specialist training in 2011. Please see BMP 2-3.

BMP 2-3 Expand the Educational Program to Vessel Operators

Goal: Minimize discharge of pollutants to receiving waters within the harbors					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Marine Cargo Specialists will Monitor ship cargo loading and unloading to prevent	Frequency of monitoring activity at loading/unloading zones	Increasing frequency	NA	Harbors Oahu District; Marine Cargo Specialists; Harbor Agents	To be implemented in 2011
discharges of pollutants	Number of Marine Cargo Specialist Attending Annual Storm water Training	Increasing attendance	NA	Harbors Oahu District; Marine Cargo Specialists; Harbor Agents	Training conducted in 2010
	Number of actions taken as a result of loading and unloading monitoring	For informational purposes	NA	Harbors Environmental Section; Marine Cargo Specialists; Harbor Agents	No monitoring performed.
Develop and maintain inventory of ships agents responsible for tracking vessel operators and provide educational	Percentage of ships agents in inventory	100% of ships agents identified	NA	Harbors Environmental Section; Marine Cargo Specialists; Harbor Agents	Ships agents identified in tenant inspections and inventory will be developed in 2011
materials	Percentage of ships agents receiving educational materials	100% of ships agents received materials	NA	Harbors Environmental Section; Marine Cargo Specialists; Harbor Agents	Educational materials distributed in training. Total number of agents TBD.

#### 2.4 INSPECTION AND PROGRESSIVE ENFORCEMENT PROGRAM

A tenant and user inspection and enforcement program has been developed as part of Harbor's Environmental Management System (EMS). This program identifies, tracks, inspects and ensures compliance with the Harbor Division's tenant lease agreements and TRPs. As part of the

inspection and progressive enforcement program, the inventory of businesses and industries currently operating at the Harbor has been updated (Appendix C). Inspection and Illicit Discharge Detection and Elimination (IDDE) findings are further discussed in Section 4.0.

Harbors completed inspection of all of its Honolulu Harbor tenants in 2010, with the exception of eleven non-responsive tenants, whom Harbors will be pursuing enforcement actions against if inspections are not completed within a reasonable timeframe. Follow up calls were placed however they yielded no response. Before using enforcement actions Harbors will attempt to find updated contact information or speak to a tenant representative in person to make an inspection appointment.

Inspection of and outreach to commercial and industrial tenants was conducted to ensure the following:

- ✓ Establish a baseline of the level of compliance of tenants and where outreach efforts should be focused;
- ✓ The facility operator has been made aware of storm water pollution prevention requirements and the consequences of non-compliance;
- ✓ The facility operator is in compliance with its tenant lease agreement or TRPs;
- ✓ Unauthorized non-stormwater discharges do not occur at the facility; and
- ✓ Illicit connections are not present at the facility.

Harbors Division continues to respond to violations observed during these inspections in accordance with the SWMP. Inspection findings were added to the database upon completion in January 2011.

Overall, each of the tenants showed a willingness to cooperate and improve compliance with storm water regulations and the Harbor's SWMP. In most cases the tenant was unaware of the potential storm water impacts and/or that administrative and engineering controls were required for compliance with storm water regulations.

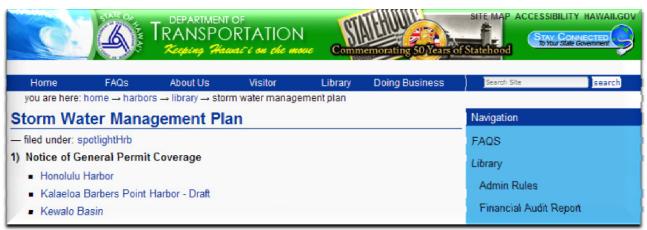
The 2010 tenant inspections found multiple tenants with illegal cross connections to the Harbor MS4. These findings included sinks and hoses that discharged onto the asphalt or directly into a storm drain. In these cases tenants were told to immediately discontinue the activity and take measures to prevent the activity in the future. Tenants were educated on the requirement to obtain an Industrial Waste Water Discharge Permit and secure a connection to the sanitary sewer system for all wash water.

## BMP 2-4 Inspection and Progressive Enforcement Program

Goal: Identify, track, inspect and ensure compliance with the Harbor Division's tenant lease agreements and TRPs

and TRPs						
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments	
Update inventory of businesses and industries currently operating at the Harbor	Frequency of inventory update	On-going	Annual	Harbors Division	Inventory is being updated	
Create/update database to record and track tenant inspection findings, enforcement actions, and resolutions.	Database is created and functional	100% of inspections are recorded in the database	Dec 2010	Harbors Environmental Section	Database is located at Harbors Division office	
Conduct initial inspection at all commercial and industrial tenant facilities (refer to BMP 4-2 for follow-up inspection)	Percentage of commercial and industrial tenant facilities inspected	100% in 2010.	Dec 2010	Harbors Environmental Section, Weston, HDOT	158 of 170 (93%) Honolulu Harbor tenants were inspected in 2010. Non-responsive tenants expected to be inspected or removed by the end of 2010.	
Add inspection findings and enforcement taken to database	Number of sites for which inspection findings, enforcement actions, and resolutions are added to database	100% of sites	Ongoing	Harbors Environmental Section	Tenant inspection findings will be completed in February 2011 whereupon they will be included in the database.	

#### 3.0 PUBLIC INVOLVEMENT/PARTICIPATION



#### **Permit Requirements**

http://hawaii.gov/dot/harbors

HAR, Chapter 11-55, Appendix K, Part 6(a)(2). *Include users of the permittee's small municipal separate storm sewer system in developing, implementing and reviewing the stormwater management plan;* 

#### 3.1 RECEIVE PUBLIC FEEDBACK ON SWMP

Public participation is intended to raise public consciousness of water quality issues, to create a sense of responsibility for water quality, and to lessen the likelihood that members of the public will commit actions that may lead to water quality degradation.

Public awareness of storm water quality issues is targeted to solicit comment by informed members, which may lead to a better and more effective plan and implementation. Harbors Division has invited public involvement and participation during the previous NGPC term by posting the SWMP to the Harbors Division website.

The current SWMP is in draft review with HDOH and USEPA Region IX; therefore no tenant or public comment has yet been solicited by Harbors Division. When the SWMP is ready for public comment, Harbors will post it on the website and request comments. Comments received will be tracked and changes will be implemented where necessary or improvements can be made. Please see BMP 3-1.

### BMP 3-1 Receive Public Feedback on SWMP

Goal: To raise public consciousness of water quality issues, to create a sense of responsibility for water quality, and to lessen the likelihood that members of the public will commit actions that may lead to water quality degradation.

Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments	
Ensure notification to harbor tenants of SWMP development capability	Percentage of tenants notified	100% of tenants notified	NA	Harbors Environmental Section	Not performed. SWMP still in draft review	
Post the Draft SWMP to the Harbors website during public	Number of people who viewed the SWMP online	Increasing from previous year	NA	Harbors Environmental Section; Harbors web master	Not performed. SWMP still in draft review	
comment window	Number comments received for SWMP revision	Increasing from previous year	NA	Harbors Environmental Section; Harbors web master	Not performed. SWMP still in draft review	
Develop system for tracking comments and change produced by comments	Percentage of comments tracked	100% of comments tracked	NA	Harbors Environmental Section	Not performed. SWMP still in draft review	

#### 4.0 ILLICIT DISCHARGE DETECTION AND ELIMINATION



#### **Permit Requirements**

Kaunakakai Harbor, Hawaii. February 2006.

HAR Chapter 11-55 Appendix K Part 6.(a)(3). Develop, implement and enforce a program to detect and eliminate illicit discharges that at a minimum includes the following:

- (A) Establishment of rules, ordinances or other regulatory mechanism, including enforcement procedures and actions, that prohibit non-stormwater discharges, except those listed in section 1 that do not cause or contribute to any violations of water quality standards, into the permittee's small municipal separate storm sewer system,
- (B) Procedures to detect and eliminate illicit discharges (as defined in 40 Code of Federal Regulations (CFR) Section 122.26(b)(2)), and
- (C) Compilation of a list of non-stormwater discharges or flows that are considered to be significant contributors of pollutants and the measures to be taken to prevent these discharges into the permittee's small municipal separate storm sewer system, or reduce the amount of pollutants in these discharges.

#### 4.1 REGULATORY MECHANISMS IN-PLACE

Existing rules and ordinances that prohibit non-stormwater discharges are in place and include the following citation from HAR Title 19, Chapter 42, Section 127: no person shall "place, throw, deposit, or discharge, or cause to be placed, thrown, deposited, or discharged into the waters of any harbor, river or shore waters of the State any litter, or other gaseous, liquid or solid materials which render the water unsightly, noxious or otherwise unwholesome so as to be detrimental to the public health and welfare or a navigational hazard. No person shall discharge oil sludge, oil refuse, fuel oil or molasses either directly or indirectly, or pump bilges or ballast tanks containing other than clean water into the waters of any harbor, river or into any shore waters in the State."

The rules are made enforceable by Title 19, Chapter 41 Section 12 which grants the HAR the full force and effect of law pursuant to sections 266-2, 266-3, 266-4, and 266-25, Hawaii Revised Statutes (HRS). The enforcement of these rules shall also be pursuant to the provisions of section 26-14.6, HRS. The violation of these rules shall be subject to penalties as set forth in section 266-25, HRS, and the Harbors' IEP.

Further, HAR Title 19 Chapter 42 Section 15 requires compliance with Federal, State, and County laws, ordinances and rules, and in particular rules of the HDOH pertaining to air and water pollution.

TRPs and tenant lease agreements incorporate language which requires compliance with all storm water quality regulations. Copies of "Lease Agreement Addendum 1, Environmental Compliance - Lessee's Duties" and an excerpt from the Standard Revocable Permit form, "Section 26. Special Terms and Conditions, Environmental Compliance - Permittee's Duties" are provided in the SWMP and Appendix B of this report.

#### 4.2 ILLICIT DISCHARGE DETECTION AND ELIMINATION PLAN

Harbors Division has developed an IDDE plan as part of its SWMP in an effort to eliminate discharges that the established storm drainage system is not designed to accept, process, or discharge.

In accordance with its IEP, Harbors conducted inspections of 159 of 170 tenants at the Honolulu Harbor (two tenants were located at both Honolulu and Kalaeloa Barbers Point Harbors) as stated in Section 2.4. Included in this task was the creation of comprehensive lists indicating the locations and quantities of various Non-Stormwater Discharges (NSWDs), potentially polluting materials, and BMPs in use at the facilities. The reports of inspection findings will be completed by the end of 2011.

The resultant 2010 inspection report for each inspection will be sent to each tenant in 2011. The inspection reports contain the following:

- ✓ An explanation of the objective of the inspections;
- ✓ Tenant contact information;
- ✓ Facility description;
- ✓ A summary of inspection observations;
- ✓ Risk ranking;
- ✓ Personnel training requirements; and
- ✓ Photo log.

Observations include industrial activity, petroleum and solvent storage quantities, mode of storage, potential pollution sources, a description of site drainage, observed BMPs, and required BMPs.

In some cases where discrepancies showed an immediate threat to water quality, tenants were asked to rectify the discrepancy during the inspection. For example, in cases where the discrepancy was an outdoor sink that discharged onto the ground, tenants were instructed to remove the sink from service immediately. Discrepancies that could not be immediately rectified were communicated to the tenant representative and forwarded to the Harbors' Environmental Section for follow-up.

Overall, all tenants that had discrepancies were unaware of storm water regulations pertaining to the issue and showed willingness to comply immediately.

### 4.2.1 Update Storm Sewer System Map

The most up-to-date MS4 outfall map is included as Appendix I of this document. The map contains outfall locations, drain and piping locations, and outfall IDs. Sources of non-stormwater discharges were identified in the dry-weather outfall reconnaissance inventory (ORI) and documented in reports found in Appendix J. Please see BMP 4-1.

Goal: Develop a comprehensive infrastructure map of the MS4 storm drain system **Evaluation** Indicators (or Measurable Date Action Status/ Activity Goals) Milestones Performed Performed by **Comments** 100% of 30 Dec 2009 Update outfall Percentage of Harbors Outfall maps maps to identify outfalls that have outfalls Environmental were submitted sources of outfall sufficient, up-to-Section with SWMP. discharges and date information No change from outfall conditions 2009. Sources of outfall 100% of October Harbors Outfall discharges sources 2010 Environmental discharges identified identified in identified Section reports. See Appendix J.

BMP 4-1 Update Storm Sewer System Map

#### **4.2.2** Outfall Reconnaissance Inventory

An annual dry weather ORI was performed from June to October 2010 by the Harbors Environmental Health Specialist. The ORI was made at low tide and describes outfall conditions, flow characteristics, and descriptions of the surrounding areas. Wet weather observations were conducted on December 28, 2010. Records of outfall inspections are included as Appendix J. Please see BMP 4-2.

Important sections of the form are listed in Table below and include

- ✓ The location of the outfall;
- ✓ Date of the inspection;
- ✓ Overall characterization, ranging from Unlikely (0 to 1 indicators present), Potential (two indicators present), Suspect (three or more indicators present), and Obvious;
- ✓ Qualitative measurement of flow at the outfall; and
- ✓ Notes that include observations of conditions, surroundings, ocean life, human activity, and other information not already covered by the form.

**Table 4-1 Honolulu Harbor Dry Weather Inspections** 

Pier	Outfall	Date	Indicator of Illicit Discharge	Flow	Notes
4	4	6/10/2010	Suspect	-	Submerged, Aama crabs
9	2	6/14/2010	Unlikely	Moderate flow	Sidewalk cleaning was being conducted. Follow-up letter sent to
9	4	6/14/2010	Unlikely	Moderate flow	tenant requesting dry cleaning methods or containment of all wash water.
10	6	6/14/2010	Unlikely	Trickle flow	
11	1	6/14/2010	Unlikely	Trickle flow	
11	2	6/14/2010	Unlikely	Trickle flow	
21	4	7/12/2010	Potential	Trickle Flow	
21	-	7/12/2010	-	-	Sewer coming out from bathrooms on end. Notified Oahu District Maintenance for Repair
27	-	7/12/2010	-	-	Leaking water hatch. Notified Oahu District Maintenance for Repair.
28	1	7/12/2010	-	-	Water hatches leaking. Notified Oahu District Maintenance for Repair.
35	5	8/9/2010	Unlikely	Moderate flow	Potentially from ice plant. Most likely due to vehicle washing. Further investigation to be conducted. Follow-up letter sent to tenant. See Appendix M.
36	-	8/9/2010	Unlikely	Water line leak	Potable water line under pier leaking. Notified Oahu District Maintenance.
38	1	-			Discharge observed outside of ORI inspections. Not recorded on form.
38	3	-			Discharge observed outside of ORI inspections. Not recorded on form.
42	1	8/9/2010	Unlikely	Trickle Flow	Coming from under pipe
51A	2	10/5/2010	Unlikely	Trickle Flow	Follow-up required to determine flow source
51A	4	10/5/2010	Unlikely	Trickle Flow	Follow-up required

Pier	Outfall	Date	Indicator of Illicit Discharge	Flow	Notes
51A	6	10/5/2010	Potential	Trickle Flow	Follow-up required to determine flow source
51A	7	10/5/2010	Unlikely	Moderate flow	Follow-up required to determine flow source
51A	8	10/5/2010	Unlikely	Moderate flow	Follow-up required to determine flow source
52	-	10/5/2010	-	-	Water leak under start of pier 52. Notified Oahu District Maintenance.

- No information entered on form.

Unlikely 0-1 indicators present Potential 2 indicators present

Suspect 3 or more indicators present
Obvious 100% certainty of illicit discharge

**Table 4-2 Honolulu Harbor Wet Weather Inspections** 

Pier	Outfall	Date	Indicator of Illicit Discharge	Flow	Notes
21	-	12/28/10	-	-	Hi-Sea was observed washing vehicles. They were notified to stop washing activities. The issue was brought to the attention of the Harbors Property Manager.  Pier 21 Lunchroom grease trap is not efficient in collecting grease.
34	-	12/28/10	-	-	Sheen observed in the open channel coming from upstream of Harbors property. Preventative booms are in-place.
37	-	12/28/10	-	-	Slight sheen and waste coming from Pacific Ocean Procedures and Uncle's Fish Market

- No information entered on form.

Unlikely 0-1 indicators present Potential 2 indicators present

Suspect 3 or more indicators present
Obvious 100% certainty of illicit discharge

BMP 4-2 Outfall Reconnaissance Inventory

Goal: E	Goal: Establish and carry out procedures to identify and remove illicit discharges					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments	
Dry weather visual inspection of outfalls	Percentage of outfalls inspected	100% of outfalls inspected on- time	October 2010	Harbors Environmental Section	Completed	
Wet weather inspections of outfalls	Percentage of outfalls inspected	20% of outfalls inspected ontime	28 December 2010	Harbors Environmental Section	Completed for Piers 21-38	
Collect and analyze reports of illicit discharges.	Number of apparent illicit discharges reported.	100% of illicit discharges found	28 December 2010	Harbors Environmental Section	3 illicit discharges found.	
Input inspection findings into database.	Percentage of findings input into database	100% of findings	January 2011	Harbors Environmental Section	100% of ORI findings input into database	
Ensure proper measures and controls are implemented to mitigate pollutants in permitted NSWDs	Number of permitted NSWDs found that lack proper controls	Reduced from previous year	NA	Harbors Environmental Section	No permitted NSWDs exist to date	
Document these controls in a database with tenant information and Tax Map Key (TMK)	Percentage of permitted NSWDs recorded in database	100% of identified permitted NSWDs	NA	Harbors Environmental Section	NA	

#### 4.2.3 Illicit Discharge Reporting

The Harbors Division Environmental Section collects and records reports of storm water quality violations through its storm water hotline. Calls are recorded on the HAR-EE Spill Documentation Form, available in Appendix G of this document. There were no illicit discharges reported through the hotline in 2010. The hotline will be advertised in future educational mailings and educational workshops. Please see BMP 4-3.

Harbors Grounds Maintenance personnel track illicit discharge incidents utilizing a Pier Inspection Form to record their observations. No illicit discharges were recorded by Harbors Ground Maintenance in 2010; however a monthly spill log was kept and is included as Appendix K.

The Honolulu Tower keeps a log of all incidents reported for Honolulu Harbor. The log details the date, time, location, vessel involved, and description of the findings or incident reported. A summary of the log entries pertaining to environmental or storm water issues is provided as Appendix L. Please see BMP 4-3. The Honolulu Tower is required to notify Harbors Division Environmental Section on all environmental issues. Records of this notification can be found in Appendix G.

Below is a summary of an environmental incident that was reported to Harbors during 2010.

On November 9, 2010 approximately 1-gallon of petroleum-contaminated water was released into the canal at Pier 34. The source was a known, non-Harbors construction site and timely and proper notification was conducted by the site supervisor. Booms and sorbent material were laid out to protect Harbor waters. The incident was recorded on the HAR-EE Spill Documentation Form and can be found in Appendix G.

## BMP 4-3 Illicit Discharge Reporting

Goal: Encourage public education and involvement in eliminating illicit discharges					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Collect violation reports from the Marine Traffic Control Center	Percentage of violations reported	100% of violation reports collected	Continuous	Harbors Environmental Section	Follow up conducted as needed.
Record report of illegal discharge incidents	Keep Marine Cargo Specialist inspection reports on-file.	100% of Pier inspection reports are kept	NA	Harbors Environmental Section	No inspection reports received.
Establish the illicit discharge/illegal dumping hotline	A hotline for citizens to report illegal dumping and suspicious discharges will be established in the first year. (See BMP 2-1)	Establish one hotline	22 Oct 2009	Harbors Environmental Section	Completed
Determine effectiveness of hotline	Number of illicit discharge/illegal dumps reported by citizens	Increasing from previous year	NA	Harbors Environmental Section	No calls received by Hotline in 2010
	Number of illicit discharges prevented or stopped due to call to hotline	Increasing from previous year	NA	Harbors Environmental Section	NA
Advertise hotline	The hotline will be advertised on an insert in each TSI mailing and on all stormwater pollution prevention signage	One TSI mailing insert per year and all signage	Registered mail receipt varies	Harbors Environmental Section	The hotline was advertised in TSI mailing in 2010. Quick reference cards distributed at training.

#### 4.2.4 Inspection and Enforcement Plan

When an illicit discharge is determined to have taken place, appropriate action is taken against the responsible parties according to the IEP. This document establishes specific inspection procedures, enforcement tools, and the progressive escalation of enforcement actions with regard to the seriousness of the illicit discharge and the recalcitrance of the dischargers.

Harbors ranked each tenant based on the tenant's potential to contribute pollutants to the environment. See BMP 4-4. The results of the tenant risk rankings will be reevaluated for accuracy each calendar year. The tenant's ranking determines the frequency of inspection according to the IEP. High risk tenants will be inspected twice per year, medium ranking tenants will be inspected annually, and low ranking tenants will be inspected biannually. A summary of tenant rankings and inspection frequencies will be completed following the inspection of all Harbors tenants.

Harbors Division maintains records, including inspection reports, warning letters, notices of violation, resolutions, and other enforcement records, demonstrating its good faith effort to bring tenant facilities into compliance with applicable requirements. Tenants are provided with inspection findings in the form of a letter.

No major enforcement actions were taken in 2010 as a result of inspections. See BMP 4-4. However, there were five noted activities that had potential to cause illicit discharges. Records of these incidents and their enforcement actions are summarized in Table 4-3 and attached as Appendix M.

Table 4-3 Record of Observations and Actions Taken

Tenant	Date of Incident	Description	Action Taken
Dependable Hawaiian Express	3/14/10	A vehicle washing contractor of the tenant was observed washing trucks. The contractor claimed that his washing method was approved by the USEPA.	The contractor was ordered by the tenant to cease washing activities until further information could be obtained from Harbors and USEPA.
Hawaiian Ice	3/16/10	A vehicle maintenance worker was observed with a hose and truck wash brush.	The person was informed of Harbors policy toward vehicle washing.  The employee stopped what he was doing and indicated that he would inform his supervisor.
Kerr Pacific dba Hawaii Flour Mills	4/16/10	An employee was observed by Harbor Police to be using a fire hose to wash down the outside of a building.	The tenant was stopped and a Notice of Apparent Water Quality Violation was sent. A follow up was conducted during inspections and a response letter was requested.
Aloha Tower	6/14/10	Individuals were observed	A letter was written to the Aloha Tower

Tenant	Date of Incident	Description	Action Taken
Marketplace		washing down the bar area at one of Aloha Tower Marketplace's vendor locations.	Marketplace informing them of the incident and Harbors Regulations. A response letter was requested and follow up was conducted during inspections
Meadow Gold	11/15/10	Three individuals were observed to be washing Meadow Gold trucks with a pressure washer and brushes. Soapy water was observed to be flowing toward a storm drain inlet.	The individuals were informed of Harbor regulation and asked to contact Harbors Division. A letter was sent to the Domestic Commercial Fishing Village Tenants Association warning them of potential administrative actions if the matter is not addressed.

BMP 4-4 Inspection and Enforcement Plan

	Goal: Eliminate illicit discharges through inspection and enforcement.						
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments		
Establish/update ranking of tenants according to Inspection and Enforcement Manual	Percentage of tenants ranked	100% of tenants ranked	December 2010	Harbors Environmental Section	Completed rankings for 158 tenants. Expected 170 tenants by the end of 2010.		
Perform initial investigation upon discovery or notification of a suspected illicit discharge or connection.	Percentage of reports investigated	100% investigated	NA	Harbors Environmental Section	Investigations were conducted during 2010 tenant inspections. 100% of reports were investigated.		
Follow up investigation of illicit discharge	Percentage of investigations followed up	100% Follow up	NA	Harbors Environmental Section	100%		
If enforcement action has taken place, perform follow up inspection within two weeks of initial inspection	Same as above	Same as above	NA	Harbors Environmental Section	Follow up conducted during tenant inspections.		

	Goal: Eliminate illicit discharges through inspection and enforcement.							
Activity	Evaluation Indicators (or Measurable Goals)  Milestones  Date Action Status/ Comments							
Initiate investigation of complaints transmitted by HDOH regarding facilities within its jurisdiction	Percentage of reports investigated	100%	NA	Harbors Environmental Section	100%			

#### 4.2.5 Employee Training

Harbors Division annually provides initial and refresher NPDES training to key personnel to instruct personnel at all levels of responsibility concerning the components and goals of the SWMP. Please see BMP 4-5. It should be noted that the observations recorded in Table 4-3 were made by Harbor Oahu District Enforcement (HAR-OE) personnel as a result of the storm water awareness training in 2009. HAR-OE will continue with annual refresher training to ensure continued reporting of observed storm water deficiencies. The instruction addresses the following areas:

- ✓ Regulatory requirements,
- ✓ Materials management practices including proper storage, handling, and use of materials,
- ✓ Good housekeeping and criteria for clean working environment,
- ✓ Recognizing conditions that could lead to degraded runoff water quality,
- ✓ Identifying and notifying responsible parties,
- ✓ Taking action to correct conditions that could result in stormwater pollution,
- ✓ Warning and enforcement procedures, and
- ✓ Recording incidents.

A copy of the employee training materials can be found in Appendix O.

As stated in the SWMP, Harbors Division will train all employees who are responsible for identification, investigation, elimination, cleanup and reporting of illicit connections and other illicit discharges annually.

BMP 4-5 Employee Training

Goal: Eliminate illicit discharges through training of essential personnel.							
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments		
Develop stormwater IDDE training materials	Training materials address all relevant IDDE aspects and are up to date	IDDE is addressed	March 2010	Harbors Environmental Section, Weston	Completed		
Train all employees who are responsible for identification, investigation, elimination, clean-up, and reporting of illicit connections/discharges	Frequency of employee training  Number of employees trained	Once per year Train all applicable employees	March 2010	Harbors Environmental Section, Weston	Completed. HAR-OE also in attendance.		

#### 5.0 CONSTRUCTION SITE STORMWATER RUNOFF CONTROL



#### **Permit Requirements**

Drain Inlet Control, Barbers Point. January 2006.

HAR Chapter 11-55 Appendix K Part 6.(a)(4). Develop, implement and enforce a program to reduce storm runoff pollutants entering the permittee's small municipal separate storm sewer system from construction activities disturbing one acre or more, including construction activities less than one acre that are part of a larger common plan of development or sale that would disturb one acre or more, that, at a minimum, includes the following:

- (A) Establishment of rules, ordinances and other regulatory mechanism, including enforcement procedures and actions, that require erosion and sediment controls,
- (B) Requirements for construction site operators to implement appropriate erosion and sediment control best management practices,
- (C) Requirements for construction site operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts on water quality,
- (D) Procedures for site plan review of construction plans which incorporate consideration of potential water quality impacts,
- (E) Procedures for receipt and consideration of information submitted by the public,
- (F) Procedures for site inspection and enforcement of control measures.

#### 5.1 CONSTRUCTION SITE RUNOFF CONTROL PROGRAM

A Construction Site Runoff Control Program (CSRCP) has been developed and included as part of Harbor's SWMP in order to establish rules, ordinances, and other regulatory mechanisms in order to:

- ✓ Require stockpiling or immediate access to materials for erosion prevention and sediment control.
- ✓ Require erosion prevention and sediment controls at all construction projects;

- ✓ Require construction site operators to implement appropriate erosion prevention and sediment control BMPs; and
- ✓ Require construction site operators to implement BMPs appropriate for the control of waste and other potential pollutant sources.

#### The CSRCP includes the following:

- ✓ Construction site plan reviews;
- ✓ Pollution prevention;
- ✓ Source identification;
- ✓ BMP implementation;
- ✓ Construction site inspections;
- ✓ Enforcement measures;
- ✓ Report of non-compliant sites; and
- ✓ Education outreach for construction site operators

#### 5.1.1 Required Document Review

Harbor Division's CSRCP applies to all construction projects existing within its jurisdiction, regardless of size or ownership of the construction site or activity.

Each Section of the HDOT Engineering Branch, including Planning, Design, Construction, Maintenance, and Environmental, reviews subsets of construction plans specific to their department for potential storm water impacts. The Harbors Division Engineering Branch reviews construction plans for potential storm water quality impacts, and drainage connection and discharge permit applications. This review process is tracked and included in the ACR.

Construction site operators are required to submit a Storm Water Pollution Prevention Plan (SWPPP) and a Notice of Intent (NOI) under the Hawaii NPDES General Permit Authorizing Discharges of Stormwater Associated with Construction Activity, HAR Chapter 11-55 Appendix C (the Hawaii Construction General Permit) for projects greater than one acre prior to approval. Harbors Division ensures that plans reflect the actual site conditions and are updated accordingly. The HDOH Clean Water Branch implements NPDES requirements in Hawaii and administers review and granting of Individual and General Permit Coverage, however NOI requests for discharge of storm water from industrial sites and SWPPPs have been routed to Harbors Division for review and comment. In 2010 the following plans were reviewed by Harbors Division:

Table 5-1 Summary of Plans Reviewed

Location	Project
Pier 9 and 10	Pier Improvements – Deck Reconstruction
Pier 29	Yard Reconstruction
Pier 2	Realignment of traffic / road improvements
Pier 2	Fencing
Pier 20	Film Set Construction

TRPs and tenant lease agreements require compliance with all environmental laws and limit possession, usage and storage of hazardous wastes without lessor knowledge and consent.

Harbors Division requires that prior to new connections or discharge to the regulated drainage system, an application for the connection and/or discharge must be made. Upon review and acceptance of the application, Harbors returns a permit for connection, a permit for discharge or comments explaining a denied connection or discharge. Applications submitted during 2010 are summarized in Table 5-2 and can be found in Appendix N.

Table 5-2 Summary of Applications for Connection / Discharge

Location	NPDES File No.	Description of Connection/Discharge
Pier 1	HI R80D538	Hawaii Stevedores, Inc. mobile harbor crane maintenance facility
Pier 38	HI R10B571	Hawaiian Ice Lots 4 and 5 at Domestic Commercial Fishing Village

Storm water BMPs are reviewed by HDOH Clean Water Branch (CWB) during NPDES NOI review, and may be reviewed by the City and County of Honolulu if plans are routed through them. Please see BMP 5-1. Harbors Division personnel including Marine Cargo Specialists, the Harbor agent, and Construction Inspectors may note implementation of BMPs and contractor waste management practices, and have authority to take action in the event of noncompliance.

BMP 5-1 Required Document Review

Goal: Prevent sediment and erosion runoff from construction sites during the planning phase.						
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments	
Review construction	Percentage of construction	100% of plans reviewed	NA	All HDOT Engineering	2 connection permit	

Goal: Prevent s	Goal: Prevent sediment and erosion runoff from construction sites during the planning phase.							
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments			
plans for potential impacts in respective areas	plans reviewed			Branch Sections	applications received. Please see Appendix N.			
Review plans for stormwater considerations during pre- and post-construction phases	Percentage of construction plans reviewed	100% of plans reviewed	NA	Harbors Design, Maintenance and Environmental Section	Construction plans with potential stormwater impact reviewed.			
Review SWPPP, NOI, and discharge permit applications for construction projects	Percentage of documents reviewed	100% of documents reviewed	NA	Harbors Design, Maintenance and Environmental Section	Applications reviewed but not tracked.			
Review erosion and sediment BMPs and waste management practices	Percentage of sediment BMPs and waste management practices reviewed	100% of BMPs and waste management practices reviewed	NA	HDOH Clean Water Branch, City and County of Honolulu, or Harbors Division	Plans reviewed but not tracked.			

#### **5.1.2** Construction Site Best Management Practices

Construction site BMPs serve the purpose of preventing sediment and other pollutants created from construction activities from reaching waters. In many cases BMPs prevent sediment and pollutants from being dislodged from their original locations.

Harbors Division requires that construction site operators implement appropriate erosion and sediment control BMPs as well as any other BMPs that will reduce the flow of pollutant off-site to the MEP. Selected BMPs must demonstrate an understanding of the soil texture and sediment size such that the BMP chosen provides the maximum benefit to runoff control. Harbors Division requires construction site operators to prevent pollutants from sediment, erosion, and waste from entering the storm system by use of structural controls and BMPs.

### **5.1.3** Site Inspection and Enforcement

Construction sites are inspected for compliance with the stormwater-related requirements until construction is terminated, the site has been stabilized, and the site's NPDES construction permit has been closed. Inspections are at least once every two weeks during the months of October

through April, then at least bi-monthly during the remaining months. Inspections ensure the following:

- ✓ Sediments generated at the project site are retained using adequate source control and structural BMPs;
- ✓ Construction-related materials and wastes are retained at the project site to avoid discharge to the storm sewer and waters of the United States;
- ✓ Unauthorized non-stormwater runoff is contained at the project site; and
- ✓ Erosion from slopes and channels are controlled by implementing an effective combination of erosion and sediment control BMPs, such as limiting grading during the wet season; inspecting graded areas during rain events; planting and maintenance of vegetation on slopes; and covering slopes susceptible to erosion.

Enforcement is executed according to the IEP located in Harbor Division's EMS Manual.

Reports include a list of all construction projects, inspection dates, and resolution of any violations of stormwater-related requirements can be found in Appendix P. Please see BMP 5-2.

**Table 5-3 Summary of Construction Inspections** 

Project Number	Project Title	Dates Inspected	Corrective Actions
HC 10185	Reconstruction of Pier 51 Container Yard	3/31	None
HC10290	Air Condition Repairs at Admin Building	3/1, 4/28, 9/30	None
HC10328	FY07 One-Year Maintenance for Pavement Repairs at Horizon	4/1, 4/13, 11/9, 11/17	Ensured dust control.
HC10363	Pier and Fender Repairs at Pier 51	3/3, 3/31	None
HC10365	Improvised Explosive Devices Threat Prevention	4/12	None
HC10377	Subsidence Repairs and Finger Demolition at Pier 21	3/16, 3/31, 4/7, 4/27,	None
HC10378	FY09 One-Year Maintenance for Pavement Repairs at Matson	3/16, 3/31, 4/13, 4/21	None
HC10391	Repair Pavement at Piers 39-40	3/16, 3/31, 4/10, 4/27	None
HC10400	Methane Mitigation, Piers 36-	3/31	

Project Number	Project Title	Dates Inspected	Corrective Actions
	38		
HC10402	Bulkhead Repairs at Pier 27	3/16, 3/31, 4/8	None
HC10405	Floor Repairs at Ground Floor Admin Building	3/1, 3/31, 4/8, 4/20,	None
HC10410	HC10410 Structure Repairs at Piers 9-11 (Phase 1)		Demolition work allowed overspill of chips. Corrected immediately.
HC10421	Seal Hatches at Piers 1-2		Dust control and waste runoff control ensured.
HC10436	Repair Utility Trench Covers at Pier 1	11/16	Ensured daily waste removal.
HMP20901	Barge Term Imp at Pier 39 Shed Demo and Yard Lighting Addition	1/18, 3/1,4/13, 4/27	None
	Non-Harbors Con	struction Projects	
N/A	Hawaiian Ice	4/1, 4/15, 5/3	Sediment controls needed improvements. Improvements noted on subsequent inspection.
N/A Pier 24 Storm Drain		4/1, 4/15, 5/3	Various oil spots to be cleaned before end of project. Required contractor to provide drip pans.

**BMP 5-2** Site Inspection and Enforcement

Goal: Ensure implementation of BMPs and controls by construction site operators through inspection and enforcement.						
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments	
Perform inspections of permitted construction sites for implementation of construction site BMPs	Frequency of inspection	At least once every two weeks during the months of October thru April, then at least bi-monthly during the remaining months	Throughout the year	Harbors Division, Site Inspectors	Completed. See Table 5-1 for summary and Appendix P for reports.	
	Number of construction sites inspected	100% of construction sites	Throughout 2010	Harbors Division, Site Inspectors	19 sites	
Incorporate inspection of storm water components into inspection program	Construction site storm water deficiencies are reduced	Deficiencies are reduced from previous year	Throughout 2010	Harbors Division, Site Inspectors	Baseline established. Erosion and sediment control inspections already underway.	
Keep a list of all construction projects, inspection dates, and resolution of any violations for the annual reports	Completeness of inventory	100% of construction sites, inspections, resolutions, and violations recorded	Throughout 2010	Harbors Construction and Environmental Section	File created at Harbors and 100% of known construction sites inspected.	

## 5.1.4 Receipt of Public Input

Harbors Division remains open to public comment and illicit/NSWD reporting. The public is able to contact Harbors Division via hotline, email, website, or mail. Communications are logged on the HAR-EE Spill Documentation Form and appropriate responses are made. No public input was received during the 2010 period. Please see BMP 5-3.

<b>BMP 5-3</b>	Receipt of Public Input
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	Goal: To remain receptive public to opinion and involvement						
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments		
Accept and follow up on public reporting and record outcome	Track number of public reports	Increase from previous year	NA	Harbors Environmental Section	None received		

## 5.1.5 Training and Outreach

Harbors Division employees who are responsible for construction plan review and site inspections are trained annually in the requirements of the SWMP and Hawaii General Permits. A copy of the Stormwater Construction Inspection training is available as Appendix Q. Please see BMP 5-4. Employees were trained in plan review and inspection procedures.

Construction plan review training included the following 10 elements taken from EPA guidance:

- ✓ Minimize clearing and grading;
- ✓ Protect waterways;
- ✓ Phase construction to limit soil exposure;
- ✓ Immediately stabilize exposed soils;
- ✓ Protect steep slopes and cuts;
- ✓ Install perimeter controls to filter sediments;
- ✓ Employ advanced sediment settling controls;
- ✓ Certify and train contractors on stormwater site plan implementation;
- ✓ Control waste at the construction site; and
- ✓ Inspect and maintain BMPs.

Construction site inspection included training on specific forms from the Harbors EMS Manual:

- ✓ HDOH CWB NOI General Form
- ✓ HDOH CWB NOI Form C
- ✓ EMS Manual Appendix G Inspection and Enforcement Program
- ✓ EMS Manual Appendix H Construction Program
- ✓ HAR 11-55 Appendix C

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Education and outreach will be provided for stakeholders. Harbors Engineering Branch has not yet developed educational materials. These educational materials are planned to be included in an educational package to be distributed during the pre-construction meeting. Educational materials will include construction storm water BMPs and will be available electronically on the website or in hard copy upon request. Please see BMP 5-4. The intent of these educational materials is to make certain that the site manager or onsite coordinator is aware of the proper installation and maintenance procedures for construction storm water BMPs.

BMP 5-4 Training and Outreach

Goal: Foster widespread knowledge of construction BMPs							
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments		
Develop internal training materials for plan review staff and inspectors	NA	NA	March 2010	Harbors Environmental Section	Developed in 2010. See Appendix Q.		
Conduct training for employees who are responsible for construction site inspections	Educate construction inspectors about proper selection, installation, inspection, and maintenance of BMPs	100% of construction site inspectors received education	March2010	Harbors Environmental Section	Training conducted in March 2010.		
Provide educational materials for plan reviewers	Percent of plan reviewers receiving educational materials	100% of plan reviewers received educational materials	March 2010	Harbors Construction and Environmental Section	100%		
Provide educational package to construction sites	Percentage of construction sites covered	100%	NA	Harbors Engineering Branch	To be developed in 2011.		
Post educational materials on Harbors website	Increase views to website	Increased views from previous year	NA	Harbors Web Master	Website under construction.		

# 6.0 POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT



#### **Permit Requirements**

Vegetated Swale, Kahului, Hawaii

HAR Chapter 11-55 Appendix K Part 6.(a)(4). Develop, implement and enforce a program to reduce pollutants in storm runoff entering the permittee's small municipal separate stormwater sewer system from new development and redevelopment projects which disturb greater than or equal to one acre, including construction sites less than one acre that are part of a large common plan or development or site that would disturb one acre or more, that, at a minimum, includes the following:

- (A) Establishment of rules, ordinances, and other regulatory mechanism, including enforcement procedures and actions, that address post-construction runoff from new development and redevelopment projects,
- (B) Structural or non-structural best management practices to minimize water quality impacts and attempt to maintain pre-development runoff conditions, and
- (C) Procedures for long-term operation and maintenance of best management practices.

#### 6.1 POST-CONSTRUCTION STORMWATER MANAGEMENT PROGRAM

Harbors Division has developed a Post-Construction Stormwater Management Program as part of its SWMP to prevent polluted storm water discharges from areas of new development and significant redevelopment. This program includes project reviews based on the post-construction erosion control NPDES permit regulations and the Development Standards requirements. The purpose of the post-construction program is to provide a mechanism by which ongoing protection of storm water quality can be addressed and attained.

Post-construction storm water management is also addressed in part by the preceding minimum control measures: public education and outreach, public involvement and participation, and illicit discharge detection and elimination.

#### **6.1.1 Construction Permit Review Process**

As part of the NPDES program, HDOH CWB administers review of projects that are equal to or greater than one acre in size. Applicants for coverage under the Nationwide General Permit or Individual Stormwater Discharge Permits submit applications including descriptions of the project scope and schedule, contractor, past land use history, existing conditions and potential pollution sources, construction and post-construction site-specific BMPs.

Harbors Division's review process has the goal of maintaining or improving pre-development runoff conditions. As such, Harbors requires construction applicants to perform a pre- and post-development hydrological analysis to protect natural channels from erosion, to size storm drainage infrastructure, and to address flooding.

Harbors Division identifies controls that provide treatment and reduce storm water volume and velocity. Harbors Division also ensures that on-going maintenance of BMPs is provided in the plans and properly executed, as BMPs are not effective unless properly maintained.

No NPDES Permit and Low Impact Development Standards (LIDS) compliance applications were received in 2010. Please see BMP 6-1.

Goal: To ensure that long-term controls are in place to prevent degradation of stormwater						
Activity	Evaluation Indicators (or Measurable Goals)  Milestones  Date Action Performed by Status/ Comments					
Review NPDES Permit	Percentage of applications	100% of applications	NA	Harbors Division Environmental,	No applications received.	
and LIDS	reviewed	applications		Design and		
compliance				Maintenance		
applications		Í		Sections		

BMP 6-1 Review NPDES Permit Application

## 6.1.2 Low Impact Development Standards Plan

Harbors Division has developed a low impact development standard (LIDS, see SWMP) that requires measures to reduce pollution discharges to the MEP from all new development and significant redevelopment projects. The LIDS requirements apply to all new development and significant redevelopment projects.

Significant redevelopment includes, but is not limited to expansion of a building footprint, or replacement of a structure; replacement of impervious surface that is not part of a routine maintenance activity; and land-disturbing activities related to structural or impervious surfaces. Where significant redevelopment will result in an increase of less than 50 percent of the impervious surfaces of a previously existing development, and the existing development was not subject to LIDS, the BMP design standards apply only to the addition, and need not be applied to the entire development.

Implementation of LIDS and amendments of TRPs and tenant lease agreements will follow the completion of the Final SWMP. Please see BMP 6-2.

BMP 6-2 Low Impact Development Standards Plan

Goal: Reduce pollution discharges to the MEP from all new development and significant redevelopment projects						
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments	
Implement LIDS and amend tenant lease agreements and TRPs as necessary	Percentage of necessary lease agreement and TRP amendments conducted	100%	TBD	Harbors Environmental Section, Design and Maintenance	To be released with Final SWMP	

#### **6.1.3** Structural and Non-Structural BMPs

Post-construction storm water quality efforts are currently addressed by Harbors Division through the following BMPs or integration of the following BMPs:

- ✓ Preserve undeveloped areas where such areas are not required by operations to be paved,
- ✓ Consider surface treatments for improved areas which retain rainfall and allow percolation rather than impervious surfacing which generates runoff, such as paver tiles in lieu of asphalt or concrete pavement,
- ✓ Preserve naturally occurring flat to low slopes in all areas, which minimize runoff concentration, quantity, velocity and erosive capability,
- ✓ Where runoff flows are concentrated, provide durable drainage systems sized to convey peak flows,
- ✓ Review construction plans to provide and maintain grading which limits the area of the drainage basin discharging into the harbor,
- ✓ Continuously monitor operations to ensure that major tenants using pier aprons adequately clean the aprons upon completion of loading/offloading activities,
- ✓ Implement structural BMPs that reduce the quantity of storm runoff at Honolulu Harbor.
- ✓ Operational areas will be paved with reinforced concrete or asphalt concrete, to prevent erosion. These surfaces will also allow spills of materials to be cleaned up,
- ✓ Maintain minimal to low slopes throughout improved areas (access roadways, piers and aprons) where surfaced with asphalt or reinforced concrete, which reduces runoff peak flow quantities and velocity.

Harbors Division evaluates current BMPs to determine if they sufficiently meet the requirements of the NPDES permit and, if they are lacking, Harbors Division requires tenants and contractors to implement the appropriate BMPs.

Post-construction storm water BMPs are evaluated by Harbors during tenant inspections. No new post-construction BMPs were implemented during 2010. Please see BMP 6-3.

BMP 6-3 Structural and Non-Structural BMPs

Goal: Implementation of LID BMPs							
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments		
Evaluate current BMPs	Percentage of BMPs evaluated	100%	Ongoing	Harbors Construction and Environmental Section, Design and Maintenance	BMPs were identified during tenant inspections		
Enforce development & implementation of new post-construction BMPs	Percentage of site potential pollutants are prevented	100%	NA	Harbors Construction and Environmental Section, Design and Maintenance	No post- construction BMPs developed in 2010		

#### 6.1.4 Operation, Maintenance, and Inspections

Structural or non-structural BMPs are not considered effective, nor are MEP criteria met, unless a long-term operation and maintenance procedure is put into place and carried out. Upon completion of construction, assurance is required for the long-term operation and maintenance of structural and non-structural BMPs. Please see BMP 6-4.

BMP 6-4 Operations, Maintenance, and Inspections

Goal: To main	ntain effectiveness	of BMPs throug	h operations and	d maintenance pla	ns
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Create database to track operation and maintenance practices	Create a database	Database has been created	NA	Harbors Environmental Section	To be created in 2011
Perform scheduled operation and maintenance practices	On-time completion of maintenance practices	100% of O&M has been confirmed conducted	NA	Oahu District	Identified BMPs will be documented and O&M will be confirmed in 2011
Inspect project for post- construction controls	Percentage of potential pollutants mitigated	Equal to maximum standard operating capacity	NA	Harbors Construction Environmental Section Inspectors and	To be inspected in 2011.

## 6.1.5 Stakeholder Education and Outreach, Employee Training

Tenant TRPs and tenant leases require maintenance of post-construction runoff control measures in their premises. An educational packet will be sent to all stakeholders, which include tenants and their contractors. The educational package will includes:

- ✓ A post-construction BMP template
- ✓ BMP Checklist
- ✓ Questions relating to post-construction storm water management on the TSI

While it is the responsibility of the tenant to ensure that their construction contractors are educated in Post-Construction considerations, Harbors will send educational material to contractors that are identified to be working on Harbors property. Please see BMP 6-5.

Harbors internal training will include guidance on the inspection of post-construction BMPs. Please see BMP 6-5. Inspection training also includes proper operations and maintenance of typical post construction BMPs, indicators of BMP failure, and inspection techniques.

## BMP 6-5 Stakeholder Education and Outreach

Goal: Create awa	areness with stal	keholders and e	mployees to red	uce post-construction i	run-off.
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Develop post-construction educational package	NA	NA	NA	Harbors Environmental Section	Educational materials to be developed in 2011 after 2010 inspection data is compiled
Distribute educational packet in TSI Mailing	Percentage of tenants in receipt of mailing	100%	NA	Harbors Environmental Section	Educational materials were developed
Post information on Harbors Division website	Track number of views	Greater than previous year	NA	Harbors Web Master	Information to be posted in 2011
Conduct training	Percentage of employees and tenants trained	Greater than previous year	NA	Harbors Environmental Section	Training to be conducted in 2011

#### 7.0 POLLUTION PREVENTION/GOOD HOUSEKEEPING



#### **Permit Requirements**

Hawaii Harbor (left) and Sand Island (right), January 2006

HAR Chapter 11-55 Appendix K Part 6.(a)(4). Develop, implement and enforce an operation and maintenance program to prevent and reduce stormwater pollution from activities, including but not limited to, park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and stormwater system maintenance that, at a minimum, includes the following:

- (A) Good housekeeping and other control measures, and
- (B) Employee and contractor training on good housekeeping practices, to ensure that good housekeeping measures and best management practices are properly implemented.

## 7.1 POLLUTION PREVENTION/GOOD HOUSEKEEPING PROGRAM

A Pollution Prevention/Good Housekeeping Program has been developed with the ultimate goal of preventing or reducing pollutant runoff. The program includes an internal record-keeping system to schedule and document the maintenance activities performed.

#### 7.1.1 Maintenance and Housekeeping Practices

Maintenance is on-going at tenant and Harbors facilities. Please see BMP 7-1. The following maintenance activities are conducted:

- ✓ Emptying dumpsters and remove and dispose of discarded objects, machinery or equipment.
- ✓ Prompt repair/replacement of malfunctioning dumpsters
- ✓ General maintenance and repair of public facilities is conducted in-house, while a contractor is selected for most large projects.

- ✓ Grounds maintenance personnel use fertilizer or herbicides in accordance with the manufacturer's instructions and in a manner that eliminates potential for runoff into the gutters, or storm drain system.
- ✓ Pier and apron cleanliness is assessed for debris and staining, and responsible parties notified to conduct cleaning as needed. Operators with leaking vehicles are required to park vehicles and equipment indoors/under cover, provide drip pans and repair leaks.
- ✓ Vehicle and equipment washing on Harbors property is prohibited unless performed in an approved wash facility.
- ✓ Clean up stains, spills, oil spots using dry cleanup methods. A record of spill cleanups can be found in Appendix K.

## 7.1.1.1 Sweeping Common Areas and Select Tenant Facilities

Sweeping prevents microscopic pollutants from entering the ocean by removing them before they flow into the storm sewer. Regular sweeping is performed by Harbors Grounds Maintenance. Grounds Maintenance has four sweepers; three are dedicated to Honolulu Harbor. Sweeping includes all common areas and certain areas on tenant facilities where cleaning is requested. Sweeping is performed according to the following schedule presented in Table 7-1.

**Table 7-1 Grounds Maintenance Sweeping Schedule** 

Location	Frequency	<b>Duration (Hours)</b>
Young Brothers	M, Th	2.5
Matson	Tu, F	2.75
Horizon Lines Terminal	W	3
Aloha Cargo Pier 1	Once per month	2.5
Kewalo Basin	T, F	1
Piers 10, 11	M, F	1
Sand Island Base Yard	T, W	1
Fishing Village Parking Lot and Road Ways, Pier 35	Once per week	1.5
Piers 30, 31, 32 and Shed Areas	Twice per week	1.5
Piers 27, 28, 29	Twice per week	1.5
Piers 18, 19, 23, 24	Twice per week	1.5
Channel Street, Pier 2 Outside and Inside of Shed		
Areas	M, F	3
Pier 1 Entrance	Twice per week	1
Piers 1, 2 Common Roadways	Twice per week	1

All waste from Honolulu and Kalaeloa Harbors are combined and disposed of at the appropriate disposal contractors. Sweeper waste is disposed of at PVT Land Company. This year approximately 178.28 tons of sweeper waste was removed for disposal. Grounds Maintenance is also responsible for collection of trash, leaves and other debris, which prevents debris from blocking storm drains and causing localized flooding. In 2010 approximately 7.13 tons of green waste was disposed of at Hawaiian Earth Products, a green waste disposal company.

## 7.2 WASTE COLLECTION

Grounds Maintenance picks up and disposes of other potential pollutants left in drop off areas or discarded illegally by the public in order to prevent pollution to the environment. This includes automobile, boat, and motorcycle lead acid batteries, scrap steel, discarded used tires, and construction debris.

Table 7-2 is a compilation of the different types of waste collected by Harbors Division and their disposal destinations. Quantities listed are the combined amounts from both Honolulu and Kalaeloa Harbors. All disposal receipts are kept as supporting documentation of compliance with storm water regulations. All values are for both Honolulu and Kalaeloa.

**Table 7-2 Waste Destination and Amounts** 

Waste Type	Destination Facility	Amount
Lead Acid Batteries	Exide Technologies	130 batteries
Green Waste	Hawaiian Earth Products	7.13 tons
Refuse	Covanta Energy Honolulu Resource Recovery	110.81 tons
Sweeper Waste	PVT Land Company, Ltd.	178.28 tons
Sweeper Waste	Waimanalo Gulch	36.94 tons
Recycled Metal	Shnitzer Steel Hawaii Corp.	15.92 tons
Discarded Tires	Unitek Solvent Services, Inc.	139 tires

BMP 7-1 Maintenance and Housekeeping Practices

Goal: To prevent pollutants from reaching the storm sewer system by using preventative maintenance practices and BMPs.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Designate appropriate sweeping frequencies and perform sweeping	Percentage of facilities for which a written schedule is made and sweeping performed	100% of facilities	Common area schedule already in- place	Harbors Maintenance Management and Personnel; tenants	Common areas and facilities with contracts with Harbors are swept according to a schedule.
Designate appropriate drainage system maintenance and perform maintenance according to priority	Percentage of drainage systems that have been designated as urgent that have been cleaned	100% of urgent drainage systems	On-going	Harbors Maintenance Management and Personnel; tenants	Drainage priorities to be determined from 2010 inspection results
Provide general instructions for identification, storage, use, collection and treatment of drainage and housekeeping educational materials to tenants	Percentage of tenants to which educational materials have been provided	100% of tenants	September 2010	Harbors Environmental Section	Instructions Provided in Harbors Storm Water training and mailing attachments
Provide training to employees	Percentage of employees to whom training has been provided	100% of employees	Ongoing	Harbors Environmental Section	Maintenance staff has been trained on general stormwater pollution prevention. Please see Appendix O.

## 7.2.1 Tenant Education and Employee Training

Tenants were educated about pollution prevention and good housekeeping practices at the annual Harbors training. A copy of the presentation given and a record of attendance are located in Appendix F. A video entitled, "Storm Watch," by EXCAL Visual Communications, was shown during the presentation and topics including the following were discussed:

- ✓ Proper methods for cleaning equipment;
- ✓ Proper labeling and handling of cleaners, solvents, and chemicals;
- ✓ Organized chemical storage;

- ✓ Responsible disposal of chemicals;
- ✓ Storage procedures for stored metals;
- ✓ Proper site drainage;
- ✓ Proper equipment/material storage;
- ✓ Timely equipment operation and maintenance; and
- ✓ Proper site maintenance.

Slides depict examples of proper and improper BMPs were also presented to illustrate acceptable procedures.

BMP 7-2 Tenant Education, Employee and Contractor Education

Goal: To prevent pollutants from reaching the storm sewer system by using preventative maintenance practices and BMPs.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
					TSI attachments
					provided
<b>D</b> 1					information and
Develop					tips on
educational	Percentage				housekeeping
materials and	of tenants in				practices. Will
distribute to	receipt of				develop contractor
tenants and	educational	100% of	September		educational
contractors	materials	tenants	2010	Weston	materials in 2011.
Hold training					
sessions for					General awareness
employees tasked	100% of			Harbors	training conducted
with maintenance	employees	100% of		Environmental	in 2010. Please see
activities	trained	employees	Ongoing	Section	Appendix O.

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#### 8.0 ADDITIONAL ANNUAL COMPLIANCE REPORT REQUIREMENTS



#### 8.1 MODIFICATIONS TO THE SWMP

Per USEPA Order for Compliance, paragraph 1, the SWMP was revised to more comprehensively detail specific BMPs that will be implemented for each of the program minimum control measures, with underlying rationale for their selection and inclusion. Requirements to specify quantitative goals, provide metrics for improvement, and milestones for each of the BMPs; and the name or name or position title and affiliation of the person or persons responsible for implementation or coordination of each program component are now tracked through the ACR.

Harbors Division made appropriate modifications to reflect the above requirements with its 2009 Draft SWMP submission and is currently awaiting comments from the EPA and HDOH to incorporate into the revised SWMP.

#### 8.2 MODIFICATIONS TO THE SMALL MS4

No major modifications have been made to the Small MS4 during the 2010 calendar year. A copy of the outfall map is available in Appendix I.

#### 8.3 SUMMARY OF PLANNED ACTIVITIES

#### 8.3.1 Public Education and Outreach

- ✓ Use TSI responses to assess the effectiveness of the annual mailing program
- ✓ Add additional educational materials
- ✓ Record hotline inquiries and track response time
- ✓ Post signs that advise against dumping
- ✓ Complete Harbors website
- ✓ Post tenant training presentation on Harbors website
- ✓ Set up and solicit a volunteer cleanup or storm drain stenciling activity
- ✓ Sponsor a yearly advertisement in the newspaper
- ✓ Monitor ship cargo loading and unloading

- ✓ Develop and maintain an inventory of ships and agents responsible for tracking vessel operators
- ✓ Provide educational materials to vessel operators
- ✓ Keep tenant inventory up-to-date
- ✓ Determine appropriate inspection frequencies per tenant according to the Harbors EMS
- ✓ Add findings, follow-up to the database

#### 8.3.2 Public Involvement

- ✓ Post SWMP to the Harbors website for public review and comment when completed
- ✓ Track comments and include them in the ACR for 2011

#### **8.3.3** Illicit Discharge Detection and Elimination

- ✓ Create a comprehensive list of NSWDs and control measures for all tenants
- ✓ Continue procedures outlined in the IEP
- ✓ Conduct dry and wet weather ORI
- ✓ Perform follow-up on dry weather NSWD observations

#### **8.3.4** Construction Site Runoff Control

- ✓ Dependent on construction plan submittal
- ✓ Perform construction site plan and permit reviews
- ✓ Report and implement enforcement procedures against construction sites that are found to be out of compliance
- ✓ Perform construction site inspections to identify possible sources of pollution and to ensure BMP's are providing an appropriate level of pollution prevention. Inspections will specifically target the following:
- ✓ Require stockpiling or immediate access to materials for erosion prevention and sediment control.
- ✓ Require erosion prevention and sediment controls at all construction projects;
- ✓ Require construction site operators to implement appropriate erosion prevention and sediment control BMPs; and
- ✓ Require construction site operators to implement BMPs appropriate for the control of waste and other potential pollutant sources.

#### **8.3.5** Post-Construction Storm Water Management

- ✓ Inventory existing BMPs if found during tenant inspections
- ✓ Perform follow-up construction site permit reviews

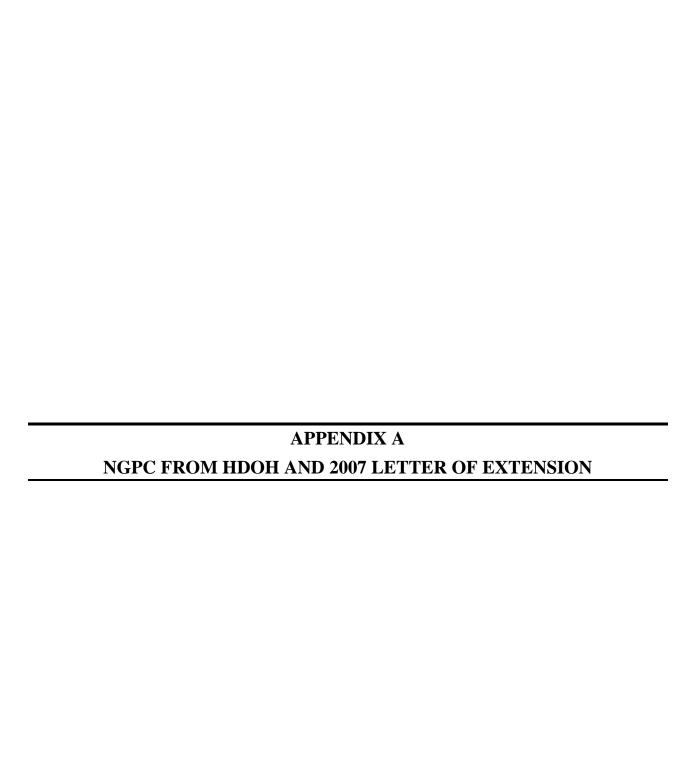
- ✓ Enforce the incorporation of Low Impact Development Standards into all new development
- ✓ Ensure structural and non-structural BMP's are in place post-construction to minimize water quality impacts and attempt to maintain pre-development runoff conditions
- ✓ Ensure the longevity of post-construction BMP's via the creation of a long-term operation and maintenance programs
- ✓ Generate and distribute educational materials in annual mailings to tenants and maintain educational materials on the Harbors Division Stormwater Management website
- ✓ Conduct annual tenant training workshop

## 8.3.6 Pollution Prevention/Good Housekeeping

- ✓ Continue the ongoing maintenance of tenant and Harbor's facilities
- ✓ Harbors will expand its maintenance program to include preventative maintenance of the storm drainage system, internal record keeping and scheduling, and appropriate training of employees
- ✓ Perform annual inspections and training to ensure tenant's compliance with employee training, pollution prevention, and good housekeeping requirements

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## Notice of General Permit Coverage, Honolulu Harbor Small Municipal Separate Storm Sewer System File No. HI 03KB482



CHIYOME L. FUKINO, M.D. DIRECTOR OF HEALTH

STATE OF HAWAII DEPARTMENT OF HEALTH P.O. BOX 3378 HONOLULU, HAWAII 96801-3378

in reply, please refer to: EMD / CWB

03KB482.FNL

May 19, 2003

The Honorable Rodney K. Haraga Director Department of Transportation State of Hawaii 869 Punchbowl Street Honolulu, Hawaii 96813

Attention: Mr. Fred Nunes

Harbors Division

Engineering Program Manager

Dear Mr. Haraga:

Subject: NOTICE OF GENERAL PERMIT COVERAGE (NGPC)

National Pollutant Discharge Elimination System (NPDES)

Honolulu Harbor Small Municipal Separate Storm Sewer System

Honolulu, Oahu, Hawaii File No. HI 03KB482

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. § 1251 et seq.; the "Act"); Chapter 342D, Hawaii Revised Statutes; and Chapters 11-54 and 11-55, Hawaii Administrative Rules (HAR), Department of Health (DOH), State of Hawaii,

## STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION

(hereinafter "PERMITTEE")

authorized to discharge storm water runoff and certain non-storm water discharges as identified in Section 2.b. of this NGPC from the Hawaii Department of Transportation, Harbors Division (DOT-Harbors) Small Municipal Separate Storm Sewer System (Small MS4) outfalls identified in the Notice of Intent (NOI), dated March 7, 2003, and additional Small MS4 outfalls that may be identified from time to time by the DOT-Harbors, to the receiving waters named Honolulu Harbor, a Class A, Marine Water Embayment.

This NGPC is subject to the Permittee's compliance with:

- HAR, Chapter 11-55, Appendix K, NPDES General Permit Authorizing Discharges of Storm Water and Certain Non-Storm Water Discharges from Small Municipal Separate Storm Sewer Systems.
- HAR, Chapter 11-55, Appendix A, DOH, Standard General Permit Conditions.
- HAR, Sections 11-55-34.04(a), 11-55-34.07, 11-55-34.11, 11-55-34.12, and any other applicable Sections of HAR, Chapter 11-55.

The Permittee shall, but not be limited to, comply with the following General Requirements, Discharge Monitoring Requirements, and Reporting Requirements.

#### 1. GENERAL REQUIREMENTS

The Permittee shall:

- a. Comply with all materials submitted in and with the NOI, dated March 7, 2003.
- b. Retain a copy of the NOI; the submitted Storm Water Management Plan (SWMP), and all subsequent revisions; and this NGPC at the facility.
- c. Ensure that anyone working under this NGPC complies with the terms and conditions of this NGPC.
- d. Revise the SWMP if any discharge limitation or water quality standards established in HAR, Section 11-54-04 for marine waters are exceeded. The revisions shall include Best Management Practices (BMPs) and/or other measures to reduce the amount of pollutants found to be in exceedance from entering State waters.
- e. Obtain all necessary permits, certifications, approvals, etc. from all pertinent agencies for the subject project.
- f. Include the file number, HI 03KB482, and the following certification with all information required under this NGPC:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

g. Submit all information required under this NGPC to the following address:

Director of Health Clean Water Branch Environmental Management Division State Department of Health P.O. Box 3378 Honolulu, HI 96801-3378

#### 2. DISCHARGE MONITORING REQUIREMENTS

- a. The Permittee shall effectively prohibit non-storm water discharges through its system into State waters. NPDES permitted discharges and discharges identified in Section 2.b. of this NGPC are exempt from this prohibition.
- b. The following non-storm water discharges may be discharged into DOT-Harbors' Small MS4 without an NPDES permit, provided that the DOT-Harbors determines that such discharges will not contain pollutants in amounts that will cause or contribute to a violation of an applicable water quality standard and the SWMP shall "identify and ensure the implementation of appropriate pollution prevention measures for the non-storm water component(s) of the discharge."
  - i. Water line flushing;
  - ii. Landscape irrigation;
  - iii. Diverted stream flows;
  - iv. Rising ground waters;
  - v. Uncontaminated ground water infiltration (as defined in Title 40, Code of Federal Regulations (40 CFR) §35.2005(20));
  - vi. Uncontaminated pumped ground water;

- vii. Discharges from potable water sources and foundation drains;
- viii. Air conditioning condensate;
- ix. Irrigation water;
- x. Springs;
- xi. Water from crawl space pumps and footing drains;
- xii. Lawn watering runoff;
- xiii. Water from individual residential car washing;
- xiv. Flows from riparian habitats and wetlands;
- xv. Dechlorinated swimming pool discharges;
- xvi. Residual street wash water; and
- xvii. Discharges or flows from fire fighting activities.
- c. The discharge of pollutants from the DOT-Harbors' Small MS4 shall be reduced to the maximum extent practicable.

#### 3. REPORTING REQUIREMENTS

The permittee shall:

- a. Develop, implement, and enforce the SWMP designed to reduce the discharge of pollutants from the DOT-Harbors' Small MS4 to the maximum extent practicable in order to protect water quality and satisfy the appropriate water quality requirements of the Act. In accordance with Section 6(a) of Appendix K, Chapter 11-55, HAR, the SWMP shall include the minimum control measures identified below:
  - i. Public Education and Outreach
  - ii. Public Involvement/Participation
  - iii. Illicit Discharge Detection and Elimination

- iv. Construction Site Runoff Control
- v. Post-Construction Storm Water Management in New Development and Redevelopment
- vi. Pollution Prevention/Good Housekeeping
- b. Submit the SWMP within 120 days of the Permittee's claimed automatic coverage which became effective on April 7, 2003.
- c. Develop measurable goals to gauge permit compliance and program effectiveness for each minimum control measure identified above. The permittee shall select measurable goals using an integrated approach that fully addresses the requirements and intent of the minimum control measure.
- d. Report in writing any proposed modification described in accordance with Section 6(c)(1) of Appendix K, Chapter 11-55, HAR, to the DOH for approval at least thirty days prior to the initiation date of the modification. The permittee shall report and justify all other modifications made to the SWMP in the annual report for the year in which the modification was made.
- e. Submit an annual report by January 28th of the following year in accordance with Section 9(a) of Appendix K, Chapter 11-55, HAR. The annual report shall cover each calendar year during the term of this NGPC and include the following:
  - i. Status of compliance with conditions of this NGPC;
  - ii. Assessment of the SWMP, including progress towards implementing each minimum control measure:
  - iii. Modifications made to the SWMP and implementation schedule during that calendar year, including justifications;
  - iv. Summary of the storm water activities planned to be undertaken during the next calendar year; and
  - v. Major modifications made to DOT-Harbors' Small MS4, including, but not limited to, addition and removal of outfalls, drainage lines, and treatment facilities.

- f. Properly address all modifications, concerns, requests and/or comments to the DOH's satisfaction.
  - i. SWMP Modifications The storm water pollution control activities described in the SWMP may need to be modified, revised, or amended from time to time over the life of the NGPC to respond to changed conditions and to incorporate more effective approaches to pollutant control. Minor changes may be proposed by the Permittee or requested by the DOH. Proposed changes that imply a major reduction in the overall scope and/or level of effort of the SWMP must be made for cause and in compliance with 40 CFR Section 122.62 and Part 124.
  - ii. System Modifications include any planned physical alterations or additions to the permitted Small MS4, any existing outfalls newly identified over the term of this NGPC.

This NGPC will take effect on the date of this notice. This NGPC will expire at midnight, November 6, 2007, or when amendments to HAR, Chapter 11-55, Appendix K, are adopted, whichever occurs first.

If you have any questions, please contact Ms. Joanna L. Seto of the Engineering Section, Clean Water Branch, at 586-4309.

Sincerely.

CHIYOME L. FUKINO, M.D.

Director of Health

Enclosures: 1. HAR, Sections 11-55-01 and 11-55-34 to 11-55-34.12

- 2. HAR, Chapter 11-55, Appendices A and K
- 3. Title 40, CFR Citations as referenced in HAR, Chapter 11-55, Water Pollution Control, Appendix A
- c: Mr. Fred Nunes, Engineering Program Manager, DOT-Harbors (w/o encls.) [via fax 587-1864 only]
  - Mr. Dean Yanagisawa, Highways Division, Oahu District, Department of Transportation (w/o encls.) [via fax 831-6725 only]
  - Mr. Gerald Takayesu, Storm Water Quality Branch, City and County of Honolulu, Department of Environmental Services (w/o encls.) [via fax 692-5520 only]
  - Mr. Charles G. Schuster, P.E., Edward K. Noda and Associates, Inc. (w/ Receipt No. 03553 for \$500 Filing Fee only)

# Administrative Extension of General Permit Coverage, Honolulu Harbor Small Municipal Separate Storm Sewer System File No. HI 03KB482



CHIYOME L. FUKINO, M.D. DIRECTOR OF HEALTH

STATE OF HAWAII DEPARTMENT OF HEALTH P.O. BOX 3378 HONOLULU, HAWAII 96801-3378

in reply, please refer to: EMD / CWB

03KB482.FNL

May 19, 2003

The Honorable Rodney K. Haraga Director Department of Transportation State of Hawaii 869 Punchbowl Street Honolulu, Hawaii 96813

Attention: Mr. Fred Nunes

Harbors Division

Engineering Program Manager

Dear Mr. Haraga:

Subject: NOTICE OF GENERAL PERMIT COVERAGE (NGPC)

National Pollutant Discharge Elimination System (NPDES)

Honolulu Harbor Small Municipal Separate Storm Sewer System

Honolulu, Oahu, Hawaii File No. HI 03KB482

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. § 1251 et seq.; the "Act"); Chapter 342D, Hawaii Revised Statutes; and Chapters 11-54 and 11-55, Hawaii Administrative Rules (HAR), Department of Health (DOH), State of Hawaii,

#### STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION

(hereinafter "PERMITTEE")

authorized to discharge storm water runoff and certain non-storm water discharges as identified in Section 2.b. of this NGPC from the Hawaii Department of Transportation, Harbors Division (DOT-Harbors) Small Municipal Separate Storm Sewer System (Small MS4) outfalls identified in the Notice of Intent (NOI), dated March 7, 2003, and additional Small MS4 outfalls that may be identified from time to time by the DOT-Harbors, to the receiving waters named Honolulu Harbor, a Class A, Marine Water Embayment.

The Honorable Barry Fukunaga October 19, 2007 Page 2

If you have any questions, please contact Ms. Joanna L. Seto, Supervisor of the Engineering Section, CWB, at 586-4309.

Sincerely,

€0<sup>R</sup> Chiyome Leinaala Fukino, M.D.

Director of Health

c: Mr. Randal Leong, DOT-HAR [via fax 587-1864 only]

Mr. Charles Schuster, EKNA Services, Inc. (w/Receipt No. 31731 for \$500 Filing Fee)



EKNA SERVICES, INC.

LINDA LINGLE



CHIYOME L. FUKINO, M.D.

In reply, please refer to DOH/CWB

03KB482.EXT

October 19, 2007

The Honorable Barry Fukunaga Director Department of Transportation 869 Punchbowl Street Honolulu, Hawaii 96813-5097

Attention:

Mr. Frederick S. Nunes, P.E.

Engineering Program Manager

Harbors Division

Dear Mr. Fukunaga:

Subject: Administrative Extension of

Notice of General Permit Coverage (NGPC) Honolulu Harbor, Honolulu, Oahu, Hawaii

File No. HI 03KB482

The Department of Health (Department), Clean Water Branch (CWB) acknowledges receipt of your Notice of Intent (NOI) and \$500 filing fee for coverage under the National Pollutant Discharge Elimination System general permit provisions, in accordance with the Hawaii Administrative Rules (HAR), Section 11-55-34.08.

The Department is unable to complete the processing of your project's NOI prior to the current NGPC expiration date. Therefore, in accordance with HAR, Section 11-55-34.09(d), the Department hereby administratively extends the subject NGPC until a notice of renewed coverage under the applicable general permit is issued or until notified by the Department, whichever occurs first. Please note that the Department may request you submit additional information in order to complete the processing of your NOI for the renewed coverage.

The Permittee shall not be held in violation of Hawaii Revised Statues, Chapter 342D-6(h) and HAR, Chapter 11-55 during the pendency of its NOI, so long as it acts consistently with the NGPC presently granted. Any non-compliance with the conditions of the administratively extended NGPC may be subject to penalties of up to \$25,000 per violation per day.

It is the Permittee's responsibility to ensure that anyone working under this administrative extension of your NGPC understands and complies with the terms and conditions therein.

The Honorable Barry Fukunaga October 19, 2007 Page 2

If you have any questions, please contact Ms. Joanna L. Seto, Supervisor of the Engineering Section, CWB, at 586-4309.

Sincerely,

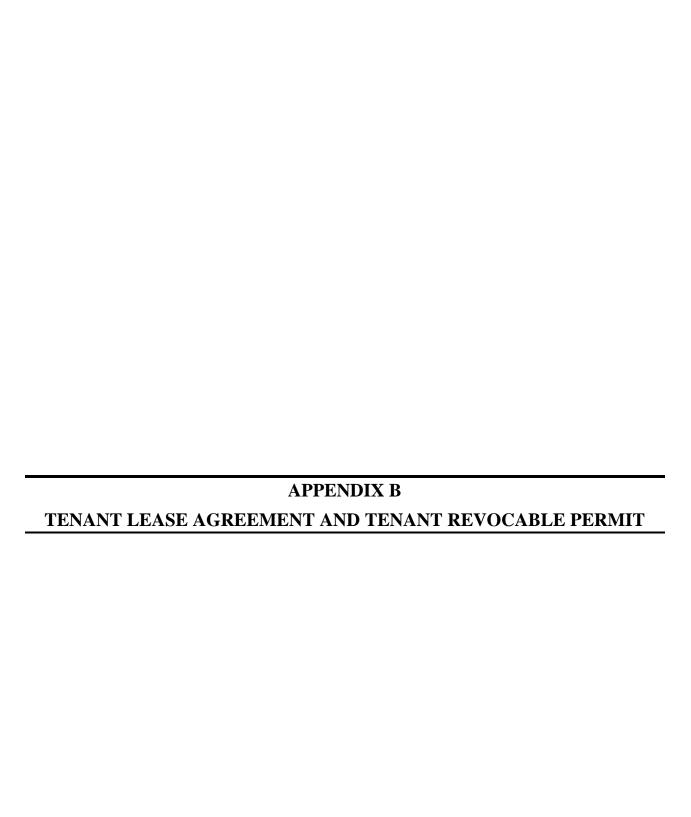
€0<sup>R</sup> Chiyome Leinaala Fukino, M.D.

Director of Health

c: Mr. Randal Leong, DOT-HAR [via fax 587-1864 only] Mr. Charles Schuster, EKNA Services, Inc. (w/Receipt No. 31731 for \$500 Filing Fee)



EKNA SERVICES, INC.



## Lease Agreement Addendum 1

## **Environmental Compliance - Lessee's Duties**

#### **ADDENDUM 1**

#### ENVIRONMENTAL COMPLIANCE – LESSEE'S DUTIES

#### A. Definitions.

For purposes of this Lease, Lessee agrees and understands that the following terms shall have the following meanings:

"Environmental Laws" shall mean all federal, state and local laws of every nature including statutes, ordinances, rules, regulations, codes, notices, standards, directives of every kind, guidelines, permits, licenses, authorizations, approvals, interpretations of the foregoing by any court, legislative body, agency or official, judicial decisions, orders, rulings or judgments, or rules of common law which currently are in effect or which may come into effect through enactment, issuance, promulgation, adoption or otherwise, which in any way pertain to, relate to, or have any relevance to the environment, health or safety. These environmental laws include, but are not limited to, regulations and orders of the federal Environmental Protection Agency and of the State of Hawaii Department of Health.

"Hazardous Substance" shall mean and include any chemical, substance, organic or inorganic material, controlled substance, object, condition, waste, living organism, or combination thereof which is, may be, or has been determined by proper state or federal authority under any environmental law to be, hazardous to human health or safety or detrimental to the environment. This term shall include, but not be limited to, petroleum hydrocarbons, asbestos, radon, polychlorinated biphenyls (PCBs), methane, and other materials or substances that are regulated by state or federal authorities.

#### B. Lessee's Activities and Duties.

1. Compliance with Environmental Laws. Lessee agrees, at its sole expense and cost, to comply with all environmental laws that apply to the leased premises during the term of this lease, and Lessee's occupancy of, and activities on, the leased premises. This duty shall survive the expiration or termination of this lease which means that the Lessee's duty to comply with environmental laws shall include complying with all environmental laws, regulations and orders that may apply, or be determined to apply, to the occupancy and activities of the Lessee on the leased premises after the expiration or termination of this lease. Failure of the Lessee to comply with any environmental laws shall constitute a breach of this lease for which the Lessor shall be entitled, in its discretion, to terminate this lease and take any other action at law or in equity it deems appropriate. Lessee shall conform its operations with 49 CFR, Part 195 (Pipeline Safety), and shall install Time Domain Reflectivity (TDR) cable leak detection and monitoring equipment, which meet or exceed industry standards, adjacent to the fuel pipelines and related facilities, to provide an indication of any leak occurrence from any fuel pipeline or containment

device. In addition, the Lessee shall install a secondary containment wall/vaulting to prevent releases into the environment. The Lessee shall also develop, implement, and follow a written integrity management program that addresses the risks of each pipeline, and provides for periodic assessment of the integrity of each pipeline through internal inspection, pressure testing, or other equally effective assessment means, on a regular basis.

- **2. Hazardous Substances.** Lessee shall not use, store, treat, dispose, discharge, release, generate, create, or otherwise handle any Hazardous Substance, or allow the same by any third person, on the leased premises (with the exception of the intended routine management of the petroleum products within the proposed pipeline) without first obtaining the written consent of the Lessor and complying with all environmental laws, including giving all required notices, reporting to, and obtaining permits from, all appropriate authorities, and complying with all provisions of this lease.
- 3. Notice to Lessor. Lessee shall keep Lessor fully informed at all times regarding all environmental law related matters affecting the Lessee or the leased premises. This duty shall include, without limited the foregoing duty, providing the Lessor with a current and complete list and accounting of all hazardous substances of every kind which are present on or about the leased premises and with evidence that the Lessee has in effect all required and appropriate permits, licenses, registrations, approvals and other consents that may be required of or by federal and state authorities under all environmental laws. This duty shall also include providing immediate written notice of any investigation, enforcement action, remediation, or other regulatory action, order of any type, or any legal action, initiated, issued, or any indication of an intent to do so, communicated in anyway to the Lessee by any federal or state authority, or individual, which relates in any way to any environmental law, or any hazardous substance, and the Lessee or the leased premises. As part of this written notice to the Lessor, the Lessee shall also immediately provide the Lessor with copies of all written communications from individuals, or state and federal authorities, including copies of all correspondence, claims, complaints, warnings, reports, technical data and any other documents received or obtained by the Lessee. At least thirty days prior to termination of this lease, or termination of the possession of the leased premises by Lessee, Lessee shall provide the Lessor with written evidence satisfactory to the Lessor that Lessee has fully complied with all environmental laws, including any orders issued by any governmental authority to the Lessee that relate to the leased premises.
- 4. Notice to Authorities. Lessee shall provide written notice to the Environmental Protection Agency and the State of Hawaii Department of Health at least sixty days prior to the termination of this lease, or sixty days prior to Lessee's termination of possession of the leased premises, whichever occurs first, that Lessee intends to vacate the leased premises and terminate its operations on those leased premises. Lessee shall allow the agents or representatives of said authorities access to the leased premises at any and all reasonable times for the purpose of inspecting the leased premises, and taking samples of any material for inspection or testing for compliance with any environmental laws. Lessee shall provide copies of said written notices to Lessor at the time said notices are provided to said authorities.
- **5. Disposal/Removal.** Except for materials that are lawfully sold in the ordinary course of the Lessee's business, Lessee shall cause any hazardous substances to be removed from the leased premises for disposal, and to be transported from the leased premises solely by duly licensed hazardous substances transporters, to duly licensed facilities for final disposal as

required by all applicable environmental laws. Lessee shall provide Lessor with copies of documentary proof, including manifests, receipts, or bills of lading, which reflect that said hazardous substances have been properly removed and disposed of in accordance with all environmental laws.

- **6. Environmental Investigations and Assessments**. The Lessee, at its sole cost and expense, shall cause to be conducted such investigations and assessments of the leased premises to determine the presence of any hazardous substance on, in, or under the leased premises as may be directed from time to time by the Lessor, in its sole discretion, or by any federal or state authority. The extent and number of any environmental investigations and assessments shall be determined by the Lessor or the federal or state authority directing said investigations and assessments to be conducted. Lessee shall retain a competent and qualified person or entity that is satisfactory to the Lessor or governmental authority, as the case may be, to conduct said investigations and assessments. Lessee shall direct said person or entity to provide the Lessor or governmental authority, if so requested, with testable portions of all samples of any soils, water, ground water, or other material that may be obtained for testing, and provide to the Lessor and the governmental authority written results of all tests on said samples upon completion of said testing.
- 7. Remediation. In the event that any hazardous substance is used, stored, treated, disposed on the premises, handled, discharged, released, or determined to be present on the leased premises, Lessee shall, at its sole expense and cost, remediate the leased premises of any hazardous substances, and dispose/remove said hazardous substance in accordance with paragraph 4. This duty to remediate includes strictly complying with all environmental laws and directives to the Lessee to remediate said hazardous substance from the Lessor. This duty to remediate shall include replacement of any materials, such as soils, so removed with material that is satisfactory to the Lessor and governmental authority, as the case may be. In the event Lessee does not remediate the leased premises to the same condition as it existed at the commencement of the lease, as determined by the Lessor, Lessee understands and agrees that Lessor may exercise its rights under the paragraph entitled Lessor's Right to Act, and until such time as the remediation is complete to the satisfaction of the Lessor, Lessee shall be liable for lease rent in the same manner and amount as if the lease had continued in effect during the period of remediation.
- **8. Restoration and Surrender of Premises.** The Lessee hereby agrees to restore the leased premises, at its sole cost and expense, including the soil, water and structures on, in, or under the leased premises to the same condition as the premises existed at the commencement of this lease, fair wear and tear to the structures excepted. In the event Lessee does not restore the leased premises to the same condition as it existed at the commencement of the lease, as determined by the Lessor, Lessee understands and agrees that Lessor may exercise its rights under the paragraph entitled Lessor's Right to Act, and until such time as the restoration is complete to the satisfaction of the Lessor, Lessee shall be liable for lease rent in the same manner and amount as if the lease had continued in effect during the period of restoration.
- **9.** Lessor's Right to Act. In the event Lessee fails for any reason to comply with any of its duties under this lease or under any environmental laws within the time set for doing so, or within a reasonable time as determined by the Lessor, Lessor shall have the right, but not the obligation, in its sole discretion, to perform those duties, or cause them to be performed. Lessee

hereby grants access to the leased premises at all reasonable hours to the Lessor, its agents, and anyone designated by the Lessor in order to perform said acts and duties. Any cost, expense, or liability of any type that may be incurred by the Lessor in performing said acts or duties shall be the sole responsibility of the Lessee, and Lessee hereby agrees to pay for those costs and expenses, and indemnify the Lessor for any liability incurred. This obligation shall extend to any costs and expenses incident to enforcement of Lessor's right to act, including litigation costs, attorneys fees, and the costs and fees for collection of said cost, expense or liability.

- 10. Release and Indemnity. Lessee hereby agrees to release the Lessor, its officers, agents, successors, and assigns from any liability of any kind, including, but not limited to, any liability for any damages, penalties, fines, judgments, or assessments that may be imposed or obtained by any person, agency, or governmental authority against the Lessee by reason of any hazardous substance that may be present by whatever means on, in or under the leased premises. The Lessee hereby agrees to indemnify, defend with counsel suitable to the Lessor, and hold harmless the Lessor from any liability that may arise in connection with, or by reason of, any occurrence involving any hazardous substance that may be alleged to be connected or related in any way with the leased premises, the Lessor's ownership of the premises, or this lease, including the presence of any hazardous substance on the leased premises.
- 11. Surety/Performance Bond for Cleanup/Restoration. At its sole cost and expense, Lessee shall provide the Lessor with a Bond, or other security satisfactory to Lessor, in the amount of \$100,000.00 to assure removal of any hazardous substances, and the remediation and restoration of the leased premises during the term of, and at the conclusion of the lease so as to comply with the terms of this lease to the satisfaction of the Lessor, and in order to comply with environmental laws. Lessee shall provide written evidence that said Bond or security has been secured by the Lessee, which evidence shall indicate the term during which said Bond or other security shall irrevocably remain in effect.
- 12. Insurance. Effective at the commencement of this lease, Lessee shall obtain and keep in force a comprehensive liability and property damage policy of insurance issued by an insurer licensed to do business in the State of Hawaii, with limits of indemnity coverage no less than \$1,000,000. Said policy of insurance shall provide coverage for personal injury or damage to property caused by hazardous substances or any occurrence that may constitute a violation of any environmental law by the Lessee. Said policy of insurance shall name the Lessor as an additional insured. Lessee shall provide proof of said insurance satisfactory to the Lessor which shall include, at a minimum, the coverage provided, and the term during which said policy shall be effective.

### **Excerpt from Standard Revocable Permit**

## **Environmental Compliance - Permittee's Duties**

#### 26. SPECIAL TERMS AND CONDITIONS.

#### **ENVIRONMENTAL COMPLIANCE – PERMITTEE'S DUTIES**

#### A. Definitions.

For purposes of this Revocable Permit, Permittee agrees and understands that the following terms shall have the following meanings:

"Environmental Laws" shall mean all federal, state and local laws of every nature including statutes, ordinances, rules, regulations, codes, notices, standards, directives of every kind, guidelines, permits, licenses, authorizations, approvals, interpretations of the foregoing by any court, legislative body, agency or official, judicial decisions, orders, rulings or judgments, or rules of common law which currently are in effect or which may come into effect through enactment, issuance, promulgation, adoption or otherwise, which in any way pertain to, relate to, or have any relevance to the environment, health or safety. These environmental laws include, but are not limited to, regulations and orders of the federal Environmental Protection Agency and of the State of Hawaii Department of Health.

"Hazardous Substance" shall mean and include any chemical, substance, organic or inorganic material, controlled substance, object, condition, waste, living organism, or combination thereof which is, may be, or has been determined by proper state or federal authority under any environmental law to be, hazardous to human health or safety or detrimental to the environment. This term shall include, but not be limited to, petroleum hydrocarbons, asbestos, radon, polychlorinated biphenyls (PCBs), methane, and other materials or substances that are regulated by state or federal authorities.

#### B. Permittee's Activities and Duties.

- 30 Compliance with Environmental Laws. Permittee agrees, at its sole expense and cost, to comply with all environmental laws that apply to the premises during the term of this Revocable Permit, and Permittee's occupancy of, and activities on, the premises. This duty shall survive the expiration or termination of this Revocable Permit which means that the Permittee's duty to comply with environmental laws shall include complying with all environmental laws, regulations and orders that may apply, or be determined to apply, to the occupancy and activities of the Permittee on the premises after the expiration or termination of this Revocable Permit. Failure of the Permittee to comply with any environmental laws shall constitutes a breach of this Revocable Permit for which the State shall be entitled, in its discretion, to terminate this Revocable Permit and take any other action at law or in equity it deems appropriate.
- **40 Hazardous Substances**. Permittee shall not use, store, treat, dispose, discharge, release, generate, create, or otherwise handle any Hazardous Substance, or allow the same by any third

person, on the premises without first obtaining the written consent of the State and complying with all environmental laws, including giving all required notices, reporting to, and obtaining permits from, all appropriate authorities, and complying with all provisions of this Revocable Permit.

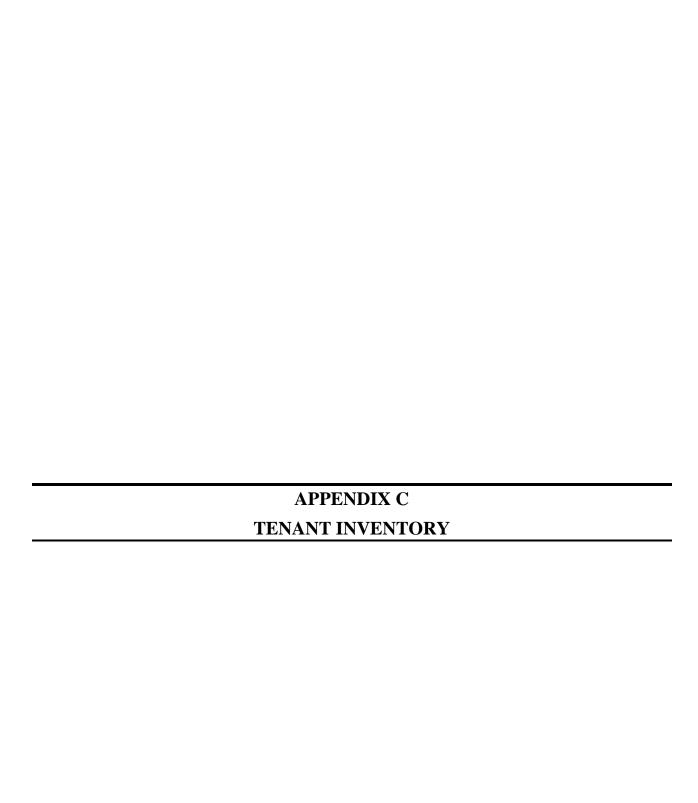
- 3. **Notice to the State**. Permittee shall keep the State fully informed at all times regarding all Environmental law related matters affecting the Permittee or the premises. This duty shall include, without limit to the foregoing duty, providing the State with a current and complete list and accounting of all hazardous substances of every kind which are present on or about the premises and with evidence that the Permittee has in effect all required and appropriate permits, licenses, registrations, approvals and other consents that may be required of or by federal and state authorities under all environmental laws. This duty shall also include providing immediate written notice of any investigation, enforcement action, remediation or other regulatory action, order of any type, or any legal action, initiated, issued, or any indication of an intent to do so, communicated in anyway to the Permittee by any federal or state authority or individual which relates in any way to any environmental law or any hazardous substance and the Permittee or the premises. This written notice to the State shall include the Permittee immediately providing the State with copies of all written communications from individuals or state and federal authorities, including copies of all correspondence, claims, complaints, warnings, reports, technical data and any other documents received or obtained by the Permittee. At least thirty (30) days prior to termination of this Revocable Permit, or termination of the possession of the premises by Permittee, which ever shall first occur, Permittee shall provide the State with written evidence satisfactory to the State that Permittee has fully complied with all environmental laws, including any orders issued by any governmental authority to the Permittee that relate to the premises.
- 4. Notice to Authorities. Permittee shall provide written notice to the Environmental Protection Agency and the State of Hawaii Department of Health at least sixty (60) days prior to the termination of this Revocable Permit, or sixty (60) days prior to Permittee's termination of possession of the premises, whichever occurs first, the fact that Permittee intends to vacate the premises and terminate its operations on those premises. Permittee shall allow the agents or representatives of said authorities access to the premises at any and all reasonable times for the purpose of inspecting the premises and taking samples of any material for inspection or testing for compliance with any environmental laws. Permittee shall provide copies of said written notices to the State at the time said notices are provided to said authorities.
- O bisposal/Removal. Except for materials that are lawfully sold in the ordinary course of the Permittee's business and for which the Permittee has obtained all required authorizations from appropriate authorities including the prior written permission of the State to have said substance on the premises, Permittee shall cause any hazardous substances to be removed from the premises for disposal. This duty shall include the transportation of said hazardous substance from the premises solely by duly licensed hazardous substance transporters to duly licensed facilities for final disposal as required by all applicable environmental laws. Permittee shall provide the State with copies of documentary proof, including manifests, receipts or bills of lading, which reflect that said hazardous substances have been properly removed and disposed of in accordance with all environmental laws.
- **80** Environmental Investigations and Assessments. The Permittee, at its sole cost and expense, shall cause to be conducted such investigations and assessments of the premises to determine the presence of any hazardous substance on, in, or under the premises as may be directed from time to time by the State, in its sole discretion, or by any federal or state authority. The extent

and number of any environmental investigations and assessments shall be determined by the State or the federal or state authority directing said investigations and assessments to be conducted. Permittee shall retain a competent and qualified person or entity that is satisfactory to the State or governmental authority, as the case may be, to conduct said investigations and assessments. Permittee shall direct said person or entity to provide the State or governmental authority, if so requested, with testable portions of all samples of any soils, water, ground water or other material that may be obtained for testing and provide directly to the State and the governmental authority at the sole expense of the Permittee written results of all tests on said samples upon completion of said testing.

- **90 Remediation**. In the event that any hazardous substance is used, stored, treated, disposed on the premises, handled, discharged, released, or determined to be present on the premises, or to have migrated from the premises, Permittee shall, at its sole expense and cost, remediate the premises, or any location off the premises to which it is determined that the hazardous substance has migrated, of any hazardous substances. Said duty to remediate includes the removal and disposal of said hazardous substances in accordance with paragraph 5. This duty to remediate includes strictly complying with all environmental laws and directives to remediate said hazardous substance issued from the State or any federal or State governmental authority charged with enforcing the Environmental laws. This duty to remediate shall include replacement of any materials, such as soils, removed with material that is satisfactory to the State and governmental authority, as the case may be.
- :0 Restoration and Surrender of Premises. The Permittee hereby agrees to restore the premises, at its sole cost and expense, including the soil, water and structures on, in, or under the premises, to the same condition as the premises existed at the commencement of this Revocable Permit, fair wear and tear to the structures excepted. In the event Permittee does not restore the premises to the same condition as it existed at the commencement of the Revocable Permit, as determined by the State, the Permittee understands and agrees that the State may exercise its rights under the paragraph entitled State's Right to Act, and until such time as the restoration is complete to the satisfaction of the State, Permittee shall be liable for Revocable Permit rent in the same manner and amount as if the Revocable Permit had continued in effect during the period of restoration.
- ; **O** State's Right to Act. In the event the Permittee fails for any reason to comply with any of its duties under this Revocable Permit or under any environmental laws within the time set for doing so, or within a reasonable time as determined by the State, the State shall have the right, but not the obligation, in its sole discretion, to perform those duties, or cause them to be performed. Permittee hereby grants access to the premises at all reasonable hours to the State, its agents and anyone designated by the State in order to perform said acts and duties. Any cost, expense or liability of any type that may be incurred by the State in performing said acts or duties shall be the sole responsibility of the Permittee and Permittee hereby agrees to pay for those costs and expenses and indemnify the State for any liability incurred. This obligation shall extend to any costs and expenses incident to enforcement of State's right to act, including litigation costs, attorneys fees and the costs and fees for collection of said cost, expense or liability.
- 10. Release and Indemnity. Permittee hereby agrees to release the State, its officers, agents, successors and assigns from any liability of any kind, including, but not limited to, any liability for any damages, penalties, fines, judgments or assessments that may be imposed or

obtained by any person, agency or governmental authority against the State and/or the Permittee by reason of any hazardous substance that may be present by whatever means on, in or under the premises. The Permittee hereby agrees to indemnify, defend with counsel suitable to the State, and hold harmless the State from any liability that may arise in connection with, or by reason of, any occurrence involving any hazardous substance that may be alleged to be connected or related in any way with the premises, the State's ownership of the premises, or this Revocable Permit, including the presence of any hazardous substance on the premises. Permittee understands and agrees that any assessments, fines or penalties that may be assessed against the Permittee or the State by reason of any environmental law violation concerning the premises shall be paid, complied with, and in every way satisfied by the Permittee and not the State.

- 11. Surety/Performance Bond for Cleanup/Restoration. At its sole cost and expense, Permittee shall provide the State with a Bond, or other security satisfactory to State, in the amount of \$ N/A to assure removal of any hazardous substances and the remediation and restoration of the premises during the term of, and at the conclusion of the Revocable Permit so as to comply with the terms of this Revocable Permit to the satisfaction of the State and in order to comply with environmental laws. Permittee shall provide written evidence that said Bond or security has been secured by the Permittee which evidence shall indicate the term during which said Bond or other security shall irrevocably remain in effect.
- **340** Insurance. Effective at the commencement of this Revocable Permit, Permittee shall obtain and keep in force a comprehensive liability and property damage policy of insurance issued by an insurer licensed to do business in the State of Hawaii with limits of indemnity coverage no less than \$500,000.00. Said policy of insurance shall provide coverage for personal injury and damage to property caused by hazardous substances or any occurrence that may constitute a violation of any environmental law by the Permittee or the State. Said policy of insurance shall name the State as an additional insured. Permittee shall provide proof of said insurance satisfactory to the State which shall include, at a minimum, the coverage provided and the term during which said policy shall be effective.



Tenant	Honolulu Facility Location	Туре	Address	Address1	Inspection POC	Phone Number	Secondary Phone Number	E-mail
1726, INC. dba MARK GLEN AUCTIONS	KMR 928 E	Tenant	4224 Waialae Avenue, Suite 334,	Honolulu, HI 96816- 5307	Roger	284-1543		mark@markglenauctions.com
AALA Produce, INC. dba AALA SHIP SERVICE	Pier 32	Tenant	869 North Nimitz Highway,	Honolulu, HI 96817- 4517	Rodney Tamamoto	808-576-0566		sales@aalaship.com
AIRCRAFT SERVICE INTERNATIONAL GROUP / HAWAII FUELING FACILITIES CORPORATION	Pier 51-A	Tenant	3201 Aolele Street	Honolulu, HI 96819	Glenn Jinbo	630-0572		ron.barringer@asig.com
AKANA TRUCKING, INC.	KMR 920 outside fenced	Tenant	209 Hao,	Honolulu, HI 96821	Kevin M Akana	845-9825		akanatrucking@hawaiiantel.net
ALOHA AGRICULTURAL CONSULTANTS, INC. dba NIU NURSERY	Keehi	Tenant	P.O. Box 17220	Honolulu, HI 96817	Sidney Goo	845-5991	225-3507	sidgoo@msn.com
ALOHA CARGO AGENCY, INC.	Pier 1	Tenant	677 Ala Moana Blvd., Suite 917	Honolulu, HI 96813	Thomas Crescenzi	479-8260		tom@acthi.com
ALOHA CONTAINER SALES & RENTAL, INC.	Keehi, across La Mariana	Tenant	P.O. Box 30936	Honolulu, HI 96820	Richard D. Preston II (Rick Preston)	(808) 843-1301		alohacontainersales.rental@haw aiiantel.net
ALOHA LIQUEURS, INC	KMR 929	Tenant	5 Sand Island Access Road, Box 118,	Honolulu, HI 96819	Dave Fazendin	(808) 841-5787		
ALOHA TOOL & RENTAL, INC. dba Honolulu RECOVERY SYSTEMS CO.	Pier 60	Tenant	207 Puuhale Road	Honolulu, HI 96819	Craid Matsuo	(808) 841-3179		
Aloha Tower Markerplace	1 Aloha Tower Drive	Tenant	1 Aloha Tower Drive	Honolulu, HI 96813	Marlene	556-2310	528-5700	information@alohatower.com
ALUMINIUM SHAKE ROOFING, INC.	KMR 919	Tenant	5 Sand Island Access Road, Building 919-B,	Honolulu, HI 96819	Fred Rehm	847-8885		fredrehm@ hawaiiantel.net
AMAZON CONSTRUCTION COMPANY, INC.	KMR 920 outside fenced	Tenant	5 Sand Island Access Road, Box 139,	Honolulu, HI 96819	duston onaga	(808) 841-6595		
AMERICAN GUARD SERVICES, INC.	NA	Access agreement	677 ALA MOANA BLVD., SUITE 725	Honolulu, HI 96813	Carla O'Bannan	(310) 645-6200		carla@mericanguardservices.co m
AMERICAN MARINE CORPORATION	Pier 14, Keehi	Tenant	65 North Nimitz Highway, Pier 14,	Honolulu, HI 96817	Roger Nall	808-545-5190		rusty@amsghq.com
AMERON INTERNATIONAL CORPORATION dba AMERON HAWAII	Pier 60	Tenant	P.O. Box 29968,	Honolulu, HI 96820	Linda F. Goldstein	(808) 266-2672		Igoldstein@ameronhawaii.com
ANCHOR CONSTRUCTION MANAGEMENT CORP.	KMR 925	Tenant	P.O. BOX 359	HAUULA, HAWAII 96717	David B. Thielem	(808) 306-0826		davidt@pixi.com
ANUENUE REFUSE, INC.	Keehi	Tenant	P.O. Box 29114,	Honolulu, HI 96822	Naomi T. Arakaki	(808) 845-4235		anuenueinc.@hawaiirr.com
ARA CONTRACTING	KMR 920	Tenant	1433 Kewalo Street #304,	Honolulu, HI 96822	Kenneth Park	(808) 387-6108		aracon3@yahoo.com
ARITA/POULSON GENERAL CONTRACTING	Pier 41, 42	Tenant	P.O. Box 1035	Puunene, HI 96784	Steve Jorgensen	(808) 368-4764		Steve@aritapoulson.com
ATLANTIS SUBMARINE HAWAII	Pier 41	Tenant			Kekua	386-0123	754-8130	
BCP CONSTRUCTION COMPANY OF HAWAII, INC.	KMR 925	Tenant	5 Sand Island Access Road, Box 112,	Honolulu, HI 96819	Timothy S. Burke	808-841-4574 x208	864-6892	tburke@bcpconstruction.com
BROOKINS BOATWORKS, LTD.	KMR 905	Tenant	5 Sand Island Access Road, Unit 117,	Honolulu, HI 96819	Gary Brookins	841-2525		brookins.boats@hawaiiantel.net
BURLINGTON ENVIRONMENTAL, INC. c/o PSC INDUSTRIAL OUTSOURCING, INC.	KMR 929 F	Tenant	91-127 Malakole Street,	Kapolei, HI 96707	Otto Audirsch	808-845-0032	808-306-3880	oaudirsch@pscnow.com
CB TECH SERVICES	KMR 926	Tenant	Sand Island Access Road, Box 102	Honolulu, HI 96819	fay	848-0060		
CENTRAL PACIFIC DISTRIBUTING, INC.	KMR 926 E	Tenant	5 Sand Island Access Road, Box 127,	Honolulu, HI 96819	Brian Oda	(808) 848-0787		cpd.hi@hawaiiantel. net
CERTIFIED SHEETMETAL	KMR 919	Tenant	1544 Mahiole Street,	Honolulu, HI 96819	Michael Yamauchi	(808) 372-3918		mmy@hawaii.rr.com
CHASE SALES & DISTRIBUTION, INC.	KMR 930 C	Tenant	5 Sand Island Access Road, Box 147,	Honolulu, HI 96819	Hank Hatakenaka	(808) 842-4588		hank.cs@hula.net
CHEVRON U.S.A., INC. Honolulu Transportation terminal	Pier 30 and 933 Nimitz	Tenant	933 North Nimitz Highway	Honolulu, HI 96817	Todd	925-951-7109		
CHEVRON U.S.A., INC.Honolulu Marine Terminal	Pier 30 and 933 Nimitz	Tenant	777 North Nimitz Highway	Honolulu, HI 96817	Todd	925-951-7109		
City & County of Honolulu, DEPT. OF ENVIRONMENTAL SERVICES	Pier 35	Tenant	1000 Uloohia Street, suite 308	Kapolei, HI 96707	Allen Young	(808) 223-9613		ayoung@honolulu.gov

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City & County of Honolulu, Honolulu FIRE DEPARTMENT (PIER 15)	Pier 15	Tenant	111 North Nimitz Highway, Pier 15	Honolulu, HI 96817	Captain Lance Orillo or Mr. Mark Saizon	808-523-4957		msaizon@honolulu.gov
City and County of Honolulu HNL Police Dept. Attn: Juvenile Services, P.A.L.	KMR	Tenant	801 South Beretania St.	Honolulu, HI 96813	Lieutenant J. Averell Peddro	(808) 529-3881		jpedro@honolulu.gov
CLASSIC TILE CORPORATION	KMR 930	Tenant	P.O. Box 30568,	Honolulu, HI 96820	Casey	808-216-3801	808-217-5781	Kamalu1@msn.com
CLEAN ISLANDS COUNCIL	Pier 35	Tenant	179 Sand Island Access Road,	Honolulu, HI 96819	Tim Sawyer	536-5814		
CONCRETE CORING COMPANY OF HAWAII, INC.	KMR Near HTC	Tenant	99-1026 Iwaena Street,	Aiea, HI 96701	John Neff / Nathan Sabey	(808) 488-8222		jneff@concretecoringhawaii.com
CONTAINER STORAGE COMPANY OF HAWAII	KMR	Tenant	2276 Pahouniu Drive,	Honolulu, HI 96819	Frank White	841-5555		fpwhite@aloha.com
CONTROL TECH, LLC	KMR 929 A	Tenant	P.O. Box 30992,	Honolulu, HI 96820	Melvin Tsue	(808) 847-7490		ctechllc@hawaiiantel.net
CONVENTION SET BUILDERS, INC.	KMR 925	Tenant	1040 13th Avenue,	Honolulu, HI 96816- 3638	Eric Van der Voert	808-216-1507		csbinc@hawaii-rr.com
CUSTOM BILT METALS	KMR 928	Tenant	5 sand island access road. Building 928	Honolulu, HI 96819	Steve	808-479-1451	808-845-1806	tom.frame@custombiltmetals.c
D & K PETROLEUM, INC.		Access agreement	P.O. BOX 5499	Kaneohe, HI 96744				_
DAVENPORT HAWAII PARTNERS, LP	887 N Nimitz Highway	Sublessor	1400 QUAIL ST., STE. 195	Newport Beach, CA 92660-2769	Angela Brand	949-640-5100		abrand@davenportpartners.co
DAVID D. CHANG AND EUN IK CHANG	KMR 928	Tenant	P. O. BOX 30054	Honolulu, HI 96820	DAVID CHANG	218-2121		
DD-M LEASING, INC.	Pier 14	Tenant	65 North Nimitz Highway, Pier 14,	Honolulu, HI 96817	Tiare Ohelo	(808) 791-0067		theohelos@gmail.com
DEDRICK, DEWAIN A. dba Bella Pietra	Pier 23	Tenant	701 North Nimitz Highway,	Honolulu, HI 96817	Dewain Andrew Dedrick	(808) 587-7779		andrew@bellapietra.com
DEPENDABLE HAWAIIAN EXPRESS, INC.	Pier 21	Tenant	703 North Nimitz Highway,	Honolulu, HI 96817	Ron Richardson	(808) 841-7311 x1701		rrichardson@dhx.com
DIVISION 8, INC.	KMR 927	Tenant	5 Sand Island Access Road, Box 126,	Honolulu, HI 96819	Brad Granger	808-845-8999		division8@808glass.com
DONAHUE, SHANNON dba PARADISE EQUIPMENT	KMR between 931 and 928	Tenant	P.O. Box 356,	Kihei, HI 96753	Shannon Donahue	808-330-1370		shandon@aloha.net
DON'S MAKIKI	Pier 42	Tenant	1406 South Beretania Street,	Honolulu, HI 96814	Holly Chu	301-775-7692		donsmakiki@yahoo.com
DRAFTSTONE COMPANY, INC.	?	Tenant	P.O. Box 161117	Honolulu, HI 96816	Waldemar Rojek	396-8461, 927- 5201		draftstone@gmail.com
EAST WEST MARKETING, INC.	KMR 926 C	Tenant	95-1101 Wikao Street,	Mililani, HI 96789	Melody G. Calisay	808-753-7964		mcalisay@aol.com
EQUILON ENTERPRISES, LLC/Shell Oil Products US Honolulu Terminal	Pier 34	Tenant	789 N. Nimitz Hwy	Honolulu, HI 96817	Joe Lovan	673-4296		
ERIK BUILDERS, INC.	Keehi	Tenant	50-CC Sand Island Access Road,	Honolulu, HI 96819	Jimmy Sakata	845-7736		ebihi@hawaiiantel.net
FIVE "C" CORP dba WESTERN OVERHEAD DOORS		Tenant	80 Sand Island Access Road, #226,	Honolulu, HI 96819	Eric Carlbom	832-0555		ericc@lava.net
FRANK P. WHITE JR. PROPERTIES dba CONTAINER STORAGE CO.	KMR fenceline	Tenant	2276 Pahounui Drive,	Honolulu, HI 96819	Frank White	(808) 841-5555		fpwhite@aloha.com
Fresh Island Fish, LLC	Pier 38	Tenant	1135 North Nimitz Highway	Honolulu, HI 96817	Derek Higa	808-831-4911		derek@freshislandfish.com
FRIENDS OF FALLS OF CLYDE	Pier 7	Tenant	P.O. BOX 25008	Honolulu, HI 96825	Chris	263-4227	543-9357	
FRIENDS OF HOKULE'A & HAWAI'ILOA	Keehi	Tenant	P.O. Box 696,	Kailua, HI 96734	Jay Dowsett	261-1841	808-256-1841	dowsettj001@hawaii.rr.com
FUKUNAGA, PAUL N. dba P.F. MARINE	Keehi	Tenant	1391 Haloa Drive	Honolulu, HI 96818	Paul N Fukunaga	842-1330	220-9425	
GILLIS, EUGENE dba EXCAVATION SERVICES	Keehi	Tenant	5928 Kalanianaole Highway,	Honolulu, HI 96821	Eugene Gillis	808-383-1959		kgillis@hawaii.rr.com
GLOBAL SPECIALITY CONTRACTORS, INC.	KMR 920	Tenant	5 Sand Island Access Road, Box 159,	Honolulu, HI 96819	Marvin G. Krael	808-368-3993	843-8881	globalspecialty@hawaiiantel.ne
GREAT PACIFIC WHOLESALE CO., LLC	KMR 926	Tenant	P.O. Box 31062,	Honolulu, HI 96820	Todd Patterson	(808) 395-8048	375-9259	gpwc@att.net

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HAJALEE INC, dba KALIHI QUEEN'S SUPERMARKET	KMR 910	Tenant	1010 Kaili Street	Honolulu, HI 96819	Jason Yang, Kevin Lee	(808) 841-8699		
HARDY CONSTRUCTION CO., INC.	KMR 931 B	Tenant	2410 A Makiki Heights Drive,	Honolulu, HI 96822	Melvin R. Hardy	(808) 845-0267	226-5343	
HAWAII EXPLOSIVES & PYROTECHINICS, INC.	KMR	Tenant	P.O. Box 1244,	Keaau, HI 96749	Charlene Pascual	836-1300		hepinc@hipyro.com
HAWAII MARITIME CENTER	Pier 7	Tenant	1525 Bernice Street	Honolulu, HI 96817	Donald	523-6151		karla@bishopmuseum.org
HAWAII PACIFIC PLUMBING SUPPLY	KMR 930 B	Tenant	1930 B Auiki Street,	Honolulu, HI 96819	Greg	808-842-5600	808-216-2207	mike@hppshawaii.com
HAWAII PAINTING & WALLCOVERING		Tenant	P.O. Box 17038,	Honolulu, HI 96817- 0038	Dean & Brian Negatoshi	(808) 479-6825		HPW-Consulting@hawaii.rr.con
HAWAII STEVEDORES, INC.	Piers 1 and 35	Tenant	P.O. Box 2160,	Honolulu, HI 96805- 2160	Ron	808-306-7476	527-3414	jbrennan@hawaiistevedores.co m
HAWAII TOYS & GIFTS	KMR 914	Tenant	1547 Kokea Street,	Honolulu, HI 96817	danny ung	292-2023		
HAWAII TRANSFER COMPANY, LTD.	KMR	Tenant	P.O. Box 665,	Pearl City, HI 96782	Joseph Aguon	677-3111 x134		josephaguon@hawaiitransfer.b
HAWAIIAN AQUA PRODUCTS		Tenant	1130 Wilder Avenue, Suite 102,	Honolulu, HI 96822	Evelyn Lim	(808) 521-5468		evylim2@aol.com
HAWAIIAN CRUISES, LTD.	Pier 6	Tenant	1600 KAPIOLANI BLVD., STE #1630	Honolulu, HI 96814	Kekua	386-0123	754-8130	
HAWAIIAN ELECTRIC COMPANY, INC.		Access agreement	P.O. BOX 2750	Honolulu, HI 96840		543-4735		
HEUMANN, JAMES dba WIND & SEA CHARTERS	Pier 34	Tenant	P.O. Box 8672,	Honolulu, HI 96830	Jim Heumann	523-6151	808-220-7675	jmh@lava.net
HIROSE ELECTRIC	KMR 926	Tenant	P.O. Box 30448,	Honolulu, HI 96820	Gena or Kevin	(808) 848-8830		hiroseelectric@aol.com
HI-TEC ROOFING, INC.	KMR 927	Tenant	5 Sand Island Access Road, Box 157,	Honolulu, HI 96819	Ken	808-479-4229		aahitec@pixi.com
HONOLULU COMMUNITY ACTION PROGRAM, INC. aka OAHU HEAD START	KMR 921	Tenant	33 South King Street, Suite 300	Honolulu, HI 96813	John Park (Facilities Manager)	(808) 843-4333		johnp@hcapweb.org
HONOLULU MARATHON ASSOCIATION	Pier 1, gated area on right at	Tenant	1635 Citron Lane	Honolulu, HI 96826	Ronald Chun	808-255-2602		jchun@honolulumarathon.org
HONOLULU RECOVERY, INC.	Pier 60	Tenant	1391 MIKOLE STREET	Honolulu, HI 96818	Craig Matsuo	841-3179		
HOOK UP TOWING, INC.	KMR 916	Tenant	1843 Liliha Street, Apt. B,	Honolulu, HI 96817- 2368	Randy	486-4665		hookuptowing@aol.com
HORIZON LINES, LLC	1601 Sand Island Parkway	Tenant	1601 Sand Island Parkway	Honolulu, HI 96819	Frank Roznerski	808-842-5389		froznerski@horizonlines.com
HPBS, INC.	Pier 19	Tenant	P.O. Box 721,	Honolulu, HI 96808	Fay Leong	532-7233		officeadmin@hawaiipilots.net
HPC FOODS, LTD.	KMR ?	Tenant	288 Libby Street,	Honolulu, HI 96819	Ron Yamauchi	848-2431		bernie@hpcfoods.com
IAN J. LANSDOWN, dba HAWAII'S SAILING CENTER	Keehi	Tenant	665 IANA Street,	Kailua, HI 96734	Jeff Lansdown	263-2383	230-0940	
INCHCAPE SHIPPING SERVICES		Sublessor	521 ALA MOANA BLVD., STE. 256	Honolulu, HI 96813				
INDUSTRIAL CHEMICAL & LUBRICANTS, INC.	KMR 930 B	Tenant	P.O. Box 30173,	Honolulu, HI 96820	Patricia Shinsato	842-4112	842-416	icl@clearwire.net
INTERNATIONAL EXPRESS, INC.	KMR 915	Tenant	P.O. Box 797,	Honolulu, HI 96808	David Hinchey / Kalani	(808) 841-6005	Kalani: 478- 2650	davidh@interexp.com
ISHIKAWA, NORMAN & DOLORES dba NORMAN'S TRACTOR SERVICE	Keehi	Tenant	P.O. Box 2280,	Ewa Beach, HI 96706	Billy	808-778-1084		nts96819@hotmail.com
ISLAND MOVERS	Pier 42	Tenant	P.O. Box 17865,	Honolulu, HI 96817	Ryan K. Fukunaga	(808) 832-4813		ryanf@hawktree.net
JAPAN FOOD (HAWAII), INC.	Pier 34	Tenant	P.O. Box 4404,	Honolulu, HI 96812	Toshiaki Wada	(808) 537-9528		
JAS. W. GLOVER, LTD	248 Sand Island Rd.	Tenant	P.O. Box 579	Honolulu, HI 96809	Keola	(808) 591-8977		johnr@gloverltd.com
JET PRO, INC.	KMR	Tenant	486 Cabot Road,	San Francisco, CA 94080	Margaret Guerrero, Exceutive	845-8826		margarita@jetproinc.com

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KAGAMI, INC.	Pier 19	Tenant	P.O. Box 745.	Aiea, HI 96701	Wayne M. Kagami	(808) 523-5700		peeks2096@aol.com
KEALOHALANIEQUIPMENT & RENTAL, INC.	NA		47-497 HUI AEKO PLACE		wayne w. Ragami	(808) 323-3700		peeks2090@adi.com
· · · · · · · · · · · · · · · · · · ·		Access agreement		Kaneohe, HI 96744				
KERR PACIFIC CORP, dba HFM Foodservice  KIRKWOOD CLARKE dba HAWAIIAN CATAMARAN	NA	Sublessor	P.O. Box 855,	Honolulu, HI 96808	Tim Buyam	527-3272		
MULTIHULL DESIGN	Keehi	Tenant	50-C Sand Island Access Road,	Honolulu, HI 96819	Matt Buckman	(808) 306-6012		
KNIGHT UNLIMITED, dba KNIGHT TRANSPORT	NA	Access agreement	99-818 MEAALA STREET	Aiea, HI 96701		271-3265		
KONG ENTERPRISES, INC.	?	Tenant	P.O. BOX 5187	Kaneohe, HI 96744	Richard Kong	487-3582	239-3974	rkingkong@aol.com
K-Sea Transportation, Hawaii Division (formerly UAUKEWAI DIVING, SALVAGE & FISHING, INC.)	Pier 21	Tenant	Pier 21,	Honolulu, HI 96817	Bill Boland	522-1000 x108		wboland@K-Sea.com
KUMU CORP.	Keehi	Tenant	50 K Sand Island Access Road,	Honolulu, HI 96819	Dan Kahler	808-232-2577		
MARINE PETROLEUM CORPORATION	KMR	Tenant	P.O. Box 29249,	Honolulu, HI 96820	Michael P. Rossman	841-0169		marine.fuel@hawaiiantel.net
MARINE SPILL RESPONSE CORPORATION	Pier 35	Tenant	179 Sand Island Access Road,	Honolulu, HI 96819	John	847-8144	425-308-0178	larson@msrc.org
MARITIME LICENSE CENTER	Pier 24	Tenant	1311 Kapiolani Blvd, Suite 407,	Honolulu, HI 96814	Charles Howard	589-0123		trng@marictr.com
MASUDA, RICHARD dba RICHARD K. MASUDA MASONRY	?	Tenant	833 Ekoa Place,	Honolulu, HI 96821				
MATSON NAVIGATION COMPANY, INC.	Pier 51-B Sand Island Access	Tenant	P.O. Box 899,	Honolulu, HI 96821	Keahi Birch	848-1252		
MAUGA-OLIVE SAMOAN ASSEMBLY OF GOD	KMR 920	Tenant	P.O. Box 4114	Honolulu, HI 96813	Setu Tiafane	(808) 778-0127		setu.tiafane@hickam.af.mil
McCABE, HAMILTON & RENNY	Piers 1, 23	Tenant	P.O. Box 210,	Honolulu, HI 96810	Andrew Souza	808-479-0356		andrewsouza16@msn.com
MILITARY HQ	KMR 914	Tenant	P.O. Box 30647,	Honolulu, HI 96820- 0647	Sandii Kamaunu	843-0189		milhq@aloha.com
MILLER INDUSTRIES	KMR 919	Tenant	5 Sand Island Access Road, Box 105,	Honolulu, HI 96819	Bill Miller	848-0855		millerindustries@cs.com
MLC INT'L LLC, dba PERFORMANCE LANDSCAPE	KMR 930	Tenant	P.O. Box 10459	Honolulu, HI 96816	Matty Lyum	808-282-5496		performanceLS@hotmail.com
MOANA PA'A KAI, INC. (Subsiduary of Young Brothers)	Pier 21	Tenant	P.O. Box 3288,	Honolulu, HI 96801	Nathan Kapule	(808) 543-9398		nkapule@htbyb.com
MYSUNG SOO HAN dba HAN'S ELECTRIC	KMR	Tenant	1617 Keeaumoku Street, #501,	Honolulu, HI 96822	Myun Soo Han	808-841-6688		
NAKAMURA, RODNEY S. WELDING	KMR 919	Tenant	2433 Rooke Avenue,	Honolulu, HI 96817	Rodney S. Nakamura	(808) 228-2551		
NANAKULI NEIGHBORHOOD HOUSING SERVICES	Keehi	Tenant	P.O. Box 17489,	Honolulu, HI 96817- 0489	Marlene/ Uncle Burt	(808) 842-0770	520-2607	alohakap@gmail.com
NCL AMERICA, INC. (1 ship in service- Pride of America)	Pier 2	Tenant	745 Fort Street, Suite 1600	Honolulu, HI 96813	Grant Karamatsu	808-527-3857		gkaramatsu@ncl.com
NORKO MARINE AGENCY, INC.	Pier 33	Tenant	791 North Nimitz Highway,	Honolulu, HI 96817	Norman Cheu	808-216-4790		ncheu@norkomarine.com
Oceanic Libra Corp	Pier 18	Tenant	PO Box 37038	Honolulu, HI 96820	Nephi Ohai	531-2524		nephi@hawaiiantel.net
OCEANTRONICS, INC.	Pier 24	Tenant	711 North Nimitz Highway,	Honolulu, HI 96817	Sharon	(808) 522-5600		amtsberg@msn.com
P & R WATER TAXI, LTD.	Pier 36	Tenant	P.O. Box 2851,	Honolulu, HI 96803	Ralph	554-3436		s.pires@pnrwatertaxi.com
PACIFIC COMMERCIAL SERVICES, LLC	KMR 931	Tenant	P.O. Box 235117,	Honolulu, HI 96813	Jingo Chang	808-545-4599		jingbochang@aol.com
PACIFIC DIVERS EQUIPMENT SUPPLY, INC.	KMR 929	Tenant	5 SAND ISLAND ACCESS ROAD, BOX 140	Honolulu, HI 96819	Thomas Coyne	847-4455		
PACIFIC ENVIRONMENTAL CORPORATION	Pier 14, Keehi	Tenant	65 North Nimitz Highway, Pier 14,	Honolulu, HI 96817	Teal Cross / Jeremy Sirkin	(808) 545-5195		jeremy@penco.org teal@penco.org
PACIFIC FISHING AND SUPPLY, INC.	Pier 17	Tenant	P.O. Box 27378,	Honolulu, HI 96827	Roger Dang	533-1195		pacificfishing@gmail.com

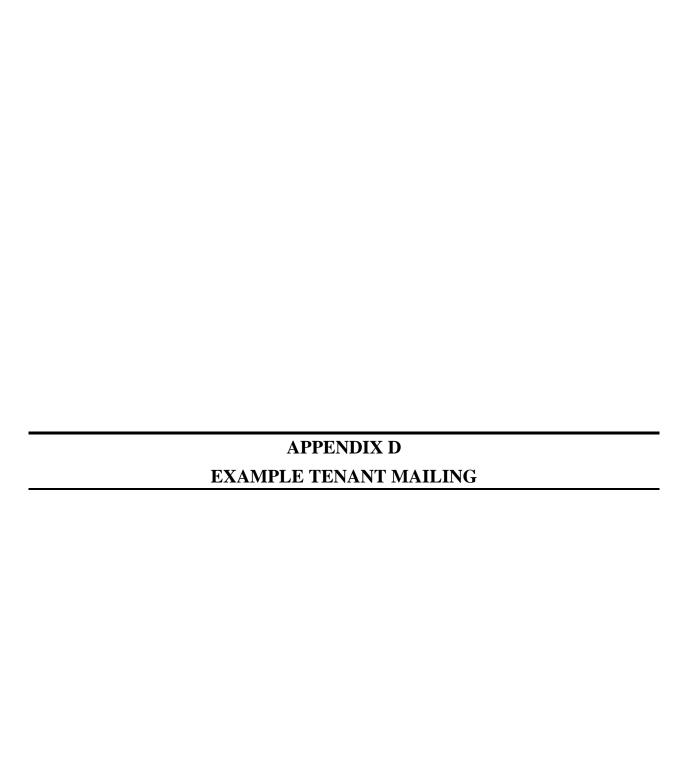
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		-						
PACIFIC OCEAN PRODUCERS, INC.	Pier 38	Tenant	1133 North Nimitz Highway,	Honolulu, HI 96817	Arlen Walsten	537-2905 x105		arlen@pop-hawaii.com
Pacific Shipyards International, LLC	Pier 41	Tenant	P.O. Box 30989,	Honolulu, HI 96820	Tom Atkinson	387-8925		mebbert@pacificshipyards.com
PANG, SANDRA dba SP LUNCH WAGON	Pier 51	Tenant	139 Mokauea Street,	Honolulu, HI 96819	Sandra Pang	(808) 848-0040		
PARADISE CRUISE, LTD.	KMR	Tenant	5 Sand Island Access Road, Box 121,	Honolulu, HI 96819	Marc Rubenstein	808-479-7427		mrubenstein@royalstarhawaii.e
PARADISE INN HAWAII, LLC dba Tsukiji Fish Market	Lot 6	Tenant	P. O. BOX 25367	Honolulu, HI 96825				tome@hawaii.rr.com
PBC WHOLESALERS, INC.	KMR 926 A	Tenant	5 Sand Island Access Road, Box 116,	Honolulu, HI 96819	Alan Nozawa	(808) 842-6565		pbchawaii@aol.com
PENDLETON FLOUR MILLS, LLC dba HAWAIIAN FLOUR MILLS	Pier 23	Tenant	P.O. Box 1238,	Honolulu, HI 96807- 1238	Tim Byam	(808) 527-3272	368-1868	tbyam@pfmills.com
PETROSPECT, INC.	Pier 21	Tenant	499 North Nimitz Highway	Honolulu, HI 96817	David Harrington	(808) 536-6626		dharrington@petrospect.net
PIONEER MACHINERY, INC.	Keehi	Tenant	P.O. Box 22265,	Honolulu, HI 96823- 2265	Rodney Yee	(808) 371-4892		allstaryee@yahoo.com
PRIME BUILDERS	KMR 920	Tenant	411 Hobron Lane, #912,	Honolulu, HI 96815	Damian Roncevich	(808) 371-5086		primebuild@aol.com
PROJECTS ENTERPRISES, INC.	KMR 920	Tenant	5 Sand Island Access Road, Box 150,	Honolulu, HI 96819	Todd Lawi	(808) 848-1900		tlawi@projects808.com
PROPARK, INC.	Aloha Tower	Tenant	445 SEASIDE AVENUE, SUITE 602	Honolulu, HI 96815	Richard D. Leong	971-7755		
PROTECH ROOFING, LLC	KMR 905	Tenant	P.O. Box 31226,	Honolulu, HI 96820	Charles E. Spicgel	808-845-1300		chassp@aol.com
PRYNE, TY dba H.B.N.	?	Tenant	742 Queen Street, Suite 301,	Honolulu, HI 96813	Ty Pryne	(808) 597-8120		tyhbn@concentric.net
QUICK MOVE, INC.	KMR	Tenant	155 Sand Island Access Road	Honolulu, HI 96819	Eugene Fontanilla	808-486-7223	422-9999	quickmove1@hotmail.com
RDH TRANSPORTATION & LEASING	KMR	Tenant	5 Sand Island Access Road, Box 121,	Honolulu, HI 96819	Marc Rubenstein	808-832-6261		mrubenstein@royalstarhawaii.
REBECCA'S FINE COLLECTION dba R.F.C. GROUP	Keehi	Tenant	1585 Kapiolani Blvd., #812	Honolulu, HI 96814	Rebecca	478-6688		
REEF DEVELOPMENT OF HAWAII, INC.	KMR 926? F	Tenant	P.O. Box 1055	Aiea, HI 96701	Frank A. Machado. Mechanic: Islander	808-488-1228 x114		freank@reefdevelopment.con
ROBERT MARCOS, INC.	KMR 927 A	Tenant	5 Sand Island Access Road, Box 143,	Honolulu, HI 96819	Deborah Marcos	(808) 841-1123		rmiinc@msn.com
ROBERTO'S, INC.	KMR 927	Tenant	5 Sand Island Access Road, Box 145,	Honolulu, HI 96819	Mr. Peter Siu	808-845-6634		robertosinc@hotmail.com
RON'S CONCRETE SPECIALISTS, LTD.	Keehi	Tenant	P.O. Box 17370	Honolulu, HI 96817	James	845-0467		ronsconcretespecialist@yahoo
ROYAL HAWAIIAN CRUISES		Tenant	PO BOX 29816	Honolulu, HI 96820	DARREN HORI	531-7001 X24		Om
SAITO, LINCOLN TIMOTHY dba KOKUA RECYCLE	Keehi	Tenant	1058 12th Avenue, Unit B	Honolulu, HI 96816	Timothy Saito	808-284-0420		TimothySaito@yahoo.com
SALASSA, FRED dba Triple F	KMR 904	Tenant	1845 Auiki Street,	Honolulu, HI 96819	Fred Salassa	(808) 842-9133 ext 102		fred@FFFhawaii.com
SAUSE BROS., INC.	HNL Piers 27, 28	Tenant	705 North Nimitz Highway,	Honolulu, HI 96817	Wayne Stachel for HNL, Mike for	HNL: (808)306- 2177	KAL: 690-3412	Waynes@sause.com
SCHOFIELD FEDERAL CREDIT UNION	KMR 922	Tenant	P.O. Box 860669,	Wahiawa, HI 96786	Susan Tamashiro	(808) 624-9884	845-9070	main@schofieldfcu.org
SEA ENGINEERING, INC.	Pier 35, 32	Tenant	Pier 21,	Honolulu, HI 96817	Ray Duran	(808) 536-3603	554-5028	rduran@lavanet.com; duranray@gmail.com
SHIN WOO CORPORATION	KMR	Tenant	P.O. Box 30054,	Honolulu, HI 96820	David Chang	(808) 853-1122		todavidchang@yahoo.com
SIU, WAI LUN	Pier 21	Tenant	2336A Kahauiki Street,	Honolulu, HI 96819	Raymond Siu	808-256-2907		siucancook@aol.com
SOUTHERN FOODS GROUP dba MEADOW GOLD	1 Sand Island Access Rd.	Tenant	925 Cedar Street,	Honolulu, HI 96814	Jason Fujimoto	(808) 630-7401		jayson fujimoto@deanfoods.c
	Pier 20		ł	+		<b>+</b>		

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STEINKE BROTHERS, INC.	Keehi, across La	Tenant	98-889 Kaahele Street,	Aiea, HI 96701	Robert Steinke	(808) 488-9668		
<u> </u>	Mariana			,		` '		Liliania Gartantia
SUBMARINES HAWAII, L.P. (Subsidary of Robert's Hawaii)	Pier 41	Tenant	680 Iwilei Road, Suite 700,	Honolulu, HI 96817	Laki Sagiao	(808) 831-1564		laki.sagiao@robertshawaii.com
SUN CHONG COMPANY, LTD.	KMR 927 D	Tenant	5 Sand Island Access Road, Box 148,	Honolulu, HI 96819	Kevin Lam	(808) 381-2495		
TAI POLYTHENE OF HAWAII, INC.	KMR 930 D	Tenant	60 Laimi Road,	Honolulu, HI 96817	Tai Lee	(808) 848-5591		
TBC, LLC	KMR 931	Tenant	1172 Lunaai street	Kailua, HI 96734	patrick Casey	292-7468		pcasey@hawaii.rr.com
TESORO HAWAII CORPORATION- SAND ISLAND TERMINAL	NA	Access agreement	431 Kuwili Street,	Honolulu, HI 96817	Wade K. Nakashima	(808) 547-3830		wnakashima@tsocorp.com
THE CUSTOM CO., INC	KMR 905, 910	Tenant	205 Kalihi Street,	Honolulu, HI 96819	Caroline	808-843-2805		milton@thesustomcompanyhav
THE GAS COMPANY, LLC	Pier 38	Tenant	P.O. Box 3000,	Honolulu, HI 96802- 3000	Zoe Williams	388-3721	594-5637	
THE PASHA GROUP, dba PASHA HAWAII	Piers 31-34	Tenant	677 Ala Moana Blvd., Suite 700	Honolulu, HI 96813	Darren Lee	(808) 590-3617		Darren.Lee@Pashanet.com
THE SHACK WAIKIKI, LLC	?	Tenant	2255 KUHIO AVENUE, SUITE 110	Honolulu, HI 96815	General Manager	921-2255		
THE SUSSEX CO., INC.	KMR 914	Tenant	2270 Makiki Heights Drive,	Honolulu, HI 96822	Tony Sussex	(808) 537-3001		tonysussex@hawaii-rr.com
THE WEBE CORPORATION, LTD. (Subsidiary of Robert's Hawaii)	Pier 5	Tenant	680 Iwilei Road, Suite 700,	Honolulu, HI 96817	Laki Sagiao	(808) 831-1564		laki.sagiao@robertshawaii.con
THEOPHYLLUS, INC. dba KANO TRUCKING	KMR 906	Tenant	224 Mokauea Street,	Honolulu, HI 96819	Lane Kano	(808) 848-8844		kanotrucking@hawaii.rr.com
TROPICAL J'S, INC.	KMR 929	Tenant	5 Sand Island Access Road, Box 122,	Honolulu, HI 96819	Chris	848-0888		gary@tropicaljs.com
TROPICAL RAIN GUTTER AND ROOFING, INC.	KMR 926	Tenant	5 Sand Island Access Road, Box 141,	Honolulu, HI 96819	Kim Beattie	(808) 847-0030	783-0662	info@tropicalroofandgutter.com
TROUBLE FREE CORP.	?	Tenant	P.O. Box 8260,	Honolulu, HI 96830	Chris Boyles	(808) 864-8864		BOYLES@Commerce/glass.inf
U.S. BUREAU OF CUSTOMS AND BORDER PROTECTION, DEPARTMENT OF HOMELAND SECURITY	Pier 1	Tenant	300 Ala Moana Boulevard, Room 2-267	Honolulu, HI 96813	Nancy Grahm	808-522-8001 X223		
U.S. COAST GUARD	NA	Access agreement	USCG, MLCPAC RONALD V. DELLUMS FEDERAL BUILDING	Oakland, CA 94612	LCDR JACK POLING	(510) 637-5507		
U.S. DEPARTMENT OF COMMERCE NOAA, NATIONAL MARINE FISHERIES SERVICE	NA	Access agreement	2570 Dole Street, (Site address: 1125B Ala Moana Blvd., Honolulu, HI 96814)	Honolulu, HI 96822- 2396	Robert Dollar	(808) 983-3702		robert.dollar@noaa.gov
UNIROC MARBLE & Granite	KMR 914	Tenant	5 Sand Island Access Road, Box 101,	Honolulu, HI 96819	Jonathan N. Ing	(808) 983-3702		uniroc@yahoo.com
UNITED FISHING AGENCY, LTD.	Pier 38	Tenant	1131 North Nimitz Highway,	Honolulu, HI 96817	Daniel Otani	(808) 536-2148		ufa-hi@pixi.com
UNITEK TECHNICAL SERVICES, INC.	KMR 931	Tenant	P.O. Box 29177,	Honolulu, HI 96820	Frank Schumann / Tony	447-2619	478-6914	frank@unitekhawaii. com
UNIVERSAL WHOLESALER ASSOCIATION, INC.	KMR 926 B	Tenant	P.O. Box 160927,	Honolulu, HI 96816	Patrick Chan	(808) 842-7427		pat@uw808.com
URS CORPORATION		Access agreement	615 Piikoi Street, 9th Floor,	Honolulu, HI 96814- 3141	Ray Takagawa	593-1116	593-1116	
VAN, KEVIN dba HI-SEA HAWAII FISHING SUPPLY	Pier 20 Warehouse 6	Tenant	Pier 20, Warehouse #6,	Honolulu, HI 96817	Kevin Van	(808) 282-1452		hiseafishing@hawaiintel.net
VIKING V., INC.	KMR 910	Tenant	309 Ilihau Street,	Kailua, HI 96734- 1856	John Myking	(808) 254-6228		mykingj001@hawaii.rr.com
WALDRON NORTON LILLY INTERNATIONAL, LLC	NA	Access agreement	521 ALA MOANA BLVD, STE 255	Honolulu, HI 96813	SANDY APANA	540-5111		
WELSH, JR., DARRELL G., AIA	4th floor of aloha tower	Tenant	One Aloha Drive, Box 63	Honolulu, HI 96813	Darrell G. Welch Jr., AIA	(808) 585-8522		welchandweekds@hawaii.rr.co
WIKOLIANA EDUCATIONAL EXCURSIONS, LLC	Pier 7	Tenant	665 IANA STREET	Kailua, HI 96734	N JEFFREY LANSDOV	230-0940		

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10 OCT 15 A10:03

HARBORS DIVISION



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HARBORS DIVISION
79 SOUTH NIMITZ HIGHWAY
HONOLULU, HAWAII 96813-4898

MICHAEL D. FORMBY INTERIM DIRECTOR

Deputy Directors
FRANCIS PAUL KEENO
JIRO A. SUMADA

IN REPLY REFER TO:

HAR-EE 8967.11

September 27, 2010

TO:

HARBORS DIVISION TENANTS

FROM:

DAVIS K. YOGI

HARBORS ADMINISTRATOR

SUBJECT:

TENANT SELF-INSPECTION FORM, STORM WATER COMPLIANCE

AWARENESS TRAINING, STORM WATER COMPLIANCE INSPECTION

NOTIFICATION

Your assistance is requested to provide essential information about your operational activities and storm water management practices that will aid the Department of Transportation Harbors Division to comply with federally mandated requirements of the Federal Water Pollution Act, commonly referred to as the Clean Water Act (CWA), and State of Hawaii requirements under the Department of Health, Hawaii Administrative Rules.

The regulations are defined in Title 40, Code of Federal Regulations (40 CFR), Parts 122 and 123, and in the State of Hawaii Administrative Rules, Chapter 11-55. The regulations establish a framework that governs the discharge of storm runoff into waters of the United States, and could impose penalties of up to \$27,500 per day per violation for non-compliance.

The Harbors Division has obtained coverage from the Department of Health to operate the storm drainage systems which discharge into Honolulu Harbor and Kalaeloa Barbers Point Harbor. We require your careful review and timely return of the attached Tenant Self-Inspection Form (Attachment 1), which is designed to help you and allow us to assess compliance with state and federal regulations as well as our discharge permit. This form needs to be completely filled out and returned, postmarked by October 29, 2010. Please send the completed form to the Harbors Division, Attention: Mr. Richard Min, Environmental Health Specialist, 79 South Nimitz Highway, Honolulu, Hawaii 96813. You may also deliver the form in person at one of the mandatory tenant training sessions detailed below. A Storm Water Best Management Practices handout (Attachment 2) is also included and must be furnished to all of your employees.

Should you fail to return a completed form, you may be subject to civil and/or criminal penalties.

This is also a notification of upcoming required awareness training pursuant to requirements established under the Honolulu Harbor and Kalaeloa Barbers Point Harbor Small Municipal Separate Storm Sewer System (MS4) Permits.

Mandatory awareness training will be provided for tenants of the Harbors Division, environmental managers and/or their representatives at the Honolulu Harbor Pier 2 Passenger Terminal on November 3 and 4, 2010. Please send at least one representative from your company to either of the two training sessions. Training sessions check-in starts at 8:30 am and the presentation will be from 9:00 am to 11:30 am. The training and parking are provided by the Harbors Division at no charge.

This is also a notification of an upcoming inspection of your facilities pursuant to requirements established under the Honolulu Harbor and Kalaeloa Barbers Point Harbor Small Municipal Separate Storm Sewer System (MS4) Permits.

We will be contacting you directly to schedule the inspection. Inspection activities are anticipated to commence on or about November 8, 2010 and will be conducted on Mondays through Fridays between 0730 and 1730 hours. Key points of interest during the inspection are detailed in the attached inspection checklist. Inspections will be managed by the Harbors Division's Environmental Health Specialist Mr. Min, and Weston Solutions, Inc. (Mr. Mark Ambler, 387-6167).

If you have any questions, please contact Mr. Min, Harbors Environmental Health Specialist, at 587-1976 or Mr. Randal Leong, Harbors Environmental Engineer at 587-1962.

#### Attachment:

Tenant Self-Inspection Form Storm Water Best Management Practices Handout Tenant Inspection Checklist

## STORMWATER BEST MANAGEMENT PRACTICES



## Vehicle and Equipment Washing

Wash water from vehicle and equipment cleaning activities performed outdoors or in areas where wash water flows onto the ground can contribute toxic hydrocarbons, heavy metals, suspended solids, oils and greases, and other contaminants to stormwater run-off.

Releasing pollutants directly or indirectly into the storm drain system or the harbor by vehicle or equipment washing is a violation of the Harbor Municipal Separate Storm Sewer System (MS4) General Permit.

Proper employee training, BMP implementation, and pollution prevention methods are required for compliance with the Harbor's Storm Water Management Program (SWMP).

#### **BMP** Implementation

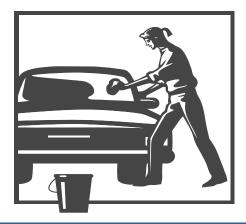
#### **Primary Option:**

Off-site washing: Utilize a commercial facility designed for NPDES compliance and permitted for discharge to the sanitary sewer system.

#### **Secondary Option**

On-Site Washing: Requires designated area designed to collect wash water for treatment/disposal and prevent stormwater run-on/off.

- Approval of Harbors Engineering Branch required
- Area should be paved, bermed, and covered
- Wash water either treated and discharged to sanitary sewer (permit required) or collected for off-site disposal
- No vehicle maintenance allowed in washing areas
- Use automatic shut off hose nozzles and biodegradable soaps where appropriate
- Train employees (document) on proper cleaning, maintenance, and wash water disposal procedures



The State Department of Transportation,
Harbors Division,
developed the Storm
Water Management
Program(SWMP) in
compliance with the
National Pollutant
Discharge Elimination
System (NPDES) and
the State of Hawaii
Municipal Separate
Storm Sewer System
(MS4) General Permit
requirements.

The SWMP is administered by the Environmental Section under the Engineering Branch.

Phone: 587-1962

Website:

http://hawaii.gov/dot/ harbors/library/stormmanagement-plan

## STORMWATER BEST MANAGEMENT PRACTICES



## Vehicle and Equipment Fueling

Transfer and storage of bulk petroleum products (i.e. gasoline, diesel, and motor oil) have the potential to pollute stormwater run-off. Implementation of BMPs is required to reduce or prevent petroleum pollutants from entering the stormwater drainage system. Both administrative controls (employee training) and structural controls (automatic shut-off/secondary containment) are necessary for an effective pollution prevention program.

#### **BMP Implementation**

- Utilize off-site commercial fueling facilities as the primary option for vehicle and equipment fueling
- Designate specific areas on-site for vehicle and equipment fueling when required
  - Avoid positioning upstream or adjacent to stormwater drainage features
  - Utilize impervious surfaces and containment designed to prevent stormwater run-on/off
  - Ensure spill kits are available (immediately clean up and properly dispose of used absorbent materials)
  - o Equip dispensing nozzles with automatic shut-off controls
- Utilize drip pans if remote or mobile fueling is required
- Provide secondary containment for aboveground storage tanks
  - Containment required to be 110% of largest tank capacity
  - Containment required to have locking drain valve
  - Record containment inspections and uncontaminated rain water discharges
  - Develop Spill Prevention, Control, and Countermeasures (SPCC) Plan if required per Federal/State regulations
- Perform periodic inspections (document) of petroleum handling equipment and structural controls
- Train employees (document) on proper fueling and spill response responsibilities
- Report all spills exceeding 5 gallons and/or spills that impact surface water and document response procedures



The State Department of Transportation, Harbors Division, developed the Storm Water Management Program(SWMP) in compliance with the National Pollutant Discharge Elimination System (NPDES) and the State of Hawaii Municipal Separate Storm Sewer System (MS4) General Permit requirements.

The SWMP is administered by the Environmental Section under the Engineering Branch.

Phone: 587-1962

Website:

http://hawaii.gov/dot/ harbors/library/stormmanagement-plan



## **Tenant Stormwater Compliance Self Inspection Form**

LINE ITEM		FORM FIELD			
	Compan	y Information			
Business Name	•				
Street Address 1					
Street Address 2					
City, State					
Zip Code					
Business Owner / Operator					
Telephone Number					
Email Address					
Fax Number					
Tenant Since (month/year)					
Alternate Contact Name					
	Tenant	Information			
List Sub-tenants (if applicable)					
EPCRA Section 313 SIC Code					
Lease Number					
Permit Number					
Business Activity Description					
	Pollution I	Prevention Info			
		al (over 24 55-gallon drums or bul	lk		
storage. Note: Count only conta	iners over 55 gallons)?		YES	NO	
Does your site have a SPCC Pla Title 40 CFR, Part 112)? If yes, please attach your currer Professional Engineer, if you did	it SPCC Plan, approved an	and Countermeasures) (Regulati	ion- YES	NO	
Do you have a National Pollutant Discharge Elimination System Permit (NPDES) or Notice of General Permit Coverage (NGPC), if so what is the number?					
Do you generate any Hazardous Generator Identification Number		vaste and provide your EPA	YES	NO	
What chemicals, which could posheets as necessary)	ollute storm water runoff if re	eleased, are presently being store	ed on-site? (Atta	ch additiona	
Chemical Name	Quantity	Method of Storage	Outdoor	/ Indoor	

LINE ITEM **FORM FIELD Pollution Prevention Info (Continued)** Check possible pollutants in storm water from your facility/site. This should include any chemicals that are used, stored, or disposed of in the areas where potential pollutants may come into contact with rainwater and/or water runoff. Also include lubrication oil leaks from service equipment and vehicles. Acid Waste Non-halogenated Alkaline Waste Oils and Grease Arsenic Solvents\* **Pesticides** PCB's Cadmium Petroleum Chromium Hydrocarbons Phenols Copper Cyanide Selenium Halogenated Solvents Thallium Herbicides Zinc Silver Mercury \*(see 40 CFR 261.30 for Nickel Lubrication oil a listing of non-halogenated solvents) leaks Are there any other possible pollutants at your facility/site: (Identify them) Does your facility operate under a Department of Army Permit (Section 401 WQC)? YES NO Are there any other Federal Permits that you are required to submit? If so identify the permits. Where does your storm water discharge? Do you have any floors/decks located in chemical storage areas YES NO Do you have to submit SARA III reporting? YES NO Please provide a copy of your facility plans/drawing. Attach copies of any storm water studies conducted at your facility.

LINE ITEM	FORM FIELD

Non-storm water discharges can be activity-based (subtle) or overt (pipe connections). Activities based non-storm water discharges include, but are not limited to: wash water, diluted solvents/chemicals, floor/dock-apron sweeper waste, and spillage. Typical overt discharges include, but are not limited to: process wastewater, cooling water, and sanitary wastewater.

Any post-construction runoff control measures (such as detention basins and vegetated swales) on tenant premises must be maintained by the occupant as per the tenant lease agreement. These post-construction runoff controls will be identified during annual on site tenant inspections.

Pollution Prevention Info (Continued)					
Are you aware of any non-storm water discharges or unauthorized connections to storm drains or groundwater surfaces at your facility?	YES	NO			
If yes, please describe location and nature of discharge.					
Are floor drains or deck drains located in the areas of chemical storage or chemical use, present at your facility?  If yes, where is the discharge point?	YES	NO			
Sanitary sewer Ground surface Unknown					

#### **Points of Contact for Water Pollution Reporting**

The responsibility to maintain the cleanliness of Hawaii's coastal water lies with all Harbor tenants and users, and Hawaii residents. We all need to pitch in to anticipate, prevent and report inappropriate discharges. Reports of inappropriate discharges may be made to:

Point of Contact	Telephone Number		
Marine Traffic Control Center	808-587-2076		
Marine Cargo Specialist	808-587-2053		
City and County of Honolulu Environmental Concern Hotline	808-768-3300		
Department of Health, Clean Water Branch	808-586-4309		
Coast Guard	1-800-424-8802		

#### Feedback

We wants to hear from you on how we can improve this program. Please fill out the comments section below to provide feedback on the information provided and the content of this form.

Did you find the information in this mailing useful?	YES	NO
Comments:		

Weston Solutions, Inc. 3 of 3 11/17/2009

## Hawaii Department of Transportation Harbors Division Compliance, BMP and P2 Inspection Checklist

Harbor. Tenant/User*/Business Name: Tenant Address: Tenant Representative(s): Vessel/Permittee Representative(s) Signature Inspector(s)**:		Honolulu Harbor Pier:	Date/Tim Phone No Risk Ran Basin or I SIC or No Weather	king: LOW PMID:
ir	S <sup>-</sup>	FORM WATER	Compliance YES NO N/A	Comments
1	The user performs vehicle/vessel/equipment maintenance, washing, and/or stores industrial equipment.			If yes, NPDES Permit No.:
				Permit expiration date:
2		e and/or Connection Permit ed with the DOT Harbors Division.		Date of Submittal. Date of Approval.
3	If required, the facility has a Storm Water Management Plan (SWMP) and /or Storm Water Pollution Control Plan (SWPCP). Applicable plans are available at the facility.			
4	Records have been kept of spills and releases in SWPCP or SPCC Spill and Discharge Log.			
5		Permit or NGPC covers the facility, under the permit have been o date.		
6		ed its annual Discharge Monitoring named water discharges to the HDOH.		Date of Submittal.
7	The facility maintains a data for a minimum of f	ccurate records of the monitoring ive (5) years.		
8	(containers 55 gallons of less than 1,320 gallon	Il Prevention Control and Plan signed by a professional engineer		Date of SPCC Plan:
9		onnel responsibilities, facility layout source and activities have been and/or SPCC.		
10		ed annual storm water Best (BMPs) awareness training, and intained at the facility.		Date of Last Training:

Inspector Name:

<sup>\*</sup> User: Land or water user of Department of Transportation Harbors Division facilities.

<sup>\*\*</sup> Inspector(s): Inspector must check and verify all reports and documentation.

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11	Areas of the facility exposed to storm water aren't wet during dry weather and are free of stains. If no, take photos.		
12	Discharge points to storm drainage system do not exhibit unusual characteristics such as color, odor, sheen, foam, or floatables.		
13	Storm water drainage systems are cleaned regularly and are labeled with "No Dumping" placards to educate personnel that non-storm water is not to be discharged into the storm drainage system.		
14	Discharge pathway of all floor and facility drains is acceptable.		
15	Discharges to the sanitary sewer is authorized by an Industrial Wastewater Discharge Permit (IWDP), if required, and permit documents are on file at the facility. If not, describe where wastewater is processed and disposed.		IWDP Number:  Expiration Date
	MAINTENANCE AND REPAIR	YES NO N/A	Comments
16	Maintenance is performed in an authorized area and clean up activities do not impact storm water.		
17	Greasy or leaky equipment is stored under cover or with drip pans.		
18	Fluids and batteries are removed from salvage equipment before storage.		
19	Hazardous material substitutions have been explored. If so, list or give examples.		
20	Maintenance logs are available for inspection.		
21	Maintenance employees have received awareness training on storm water BMPs.		Date of Last Training:
22	Existing products and materials are used before purchasing or using additional ones of the same kind.		
	FUELING	YES NO N/A	Comments
23	Fueling area engineering controls and BMPs are effective in preventing storm water run on/runoff.		
24	Secondary containment devices for fixed and mobile fueling areas are adequate to contain spills.		
25	Structural controls, such as sumps, oil/water separators, and containment areas are being maintained properly.		
26	Fueling areas are free of unattended stains and spill cleanup practices/materials (Spill Kits) are adequate.		
27	Visible piping, tanks, and hoses do not exhibit signs of leakage, wear, or malfunction. Inspection log available for inspection		
28	Fuel-handling employees are trained on fueling BMPs, spill cleanup practices, and the content of the SPCC plan.		Date of training:
		•	

Inspector Name: Hawaii DOT, Harbors Division Date:

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	VEHICLE, VESSEL, AND EQUIPMENT WASHING	YES NO N/A	Comments
29	Washing takes place in a designated area and is designed to prevent storm water run on/runoff.		
30	Discharges from washing activities are authorized by permits if required, and permit documents are on file with DOT Harbors Division. Vessel has a EPA Vessel General Permit.		If yes, Permit No.:  Permit expiration date:
31	Wash water treatment system, such as sumps, oil/water separators, and reclaimation systems are maintained and operational.		
32	Cleaning agents and equipment are stored properly. Environmentally preferred products are used where possible. List product used.		
33	Solid wastes from washing activities are disposed of properly.		
	OUTDOOR MATERIAL HANDLING	YES NO N/A	Comments
34	Loading areas are designed and located to minimize impacts to storm water drainage system.		
35	Loading areas are free of unattended stains or pavement degradation indicating poor material handling practices. If no, take photos.		
36	Adequate plans and spill cleanup materials are on hand to address spills and leaks due to material transfers.		
37	Material handling employees and/or forklift operators have been trained on material handling BMP's.		Date of training:
	CONTAINED STODAGE	VEC NO N/A	Comments
38	Facility has aboveground storage tanks (AST's) or underground storage tanks (UST's) including hydraulic lift tanks, emergency generator day tanks, fuel storage, and used oil storage tanks. Proper maintenance, training,leak tests, notifications, and inspections are up to date. For tanks greater than 1,100 gallons, inventory is monitored daily.	YES NO N/A	Comments
39	Facility had notified the HDOH UST program office of all UST's located in-site. HDOH has issued a "No Further Action" statement for the closure of any UST at the facility.		
40	AST meets or exceeds the National Fire Protection Association (NFPA) requirements.		
41	Storage area has adequate secondary containment and integrity protection.		
42	Containers are compatible with materials stored, free of damage, and labeled correctly, and not stored past allowable hold times. Lids are kept closed and secured when not in use.		
43	Bulk product storage containers are equipped with overflow protection alarms or automatic shutdown pumps.		

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Date:

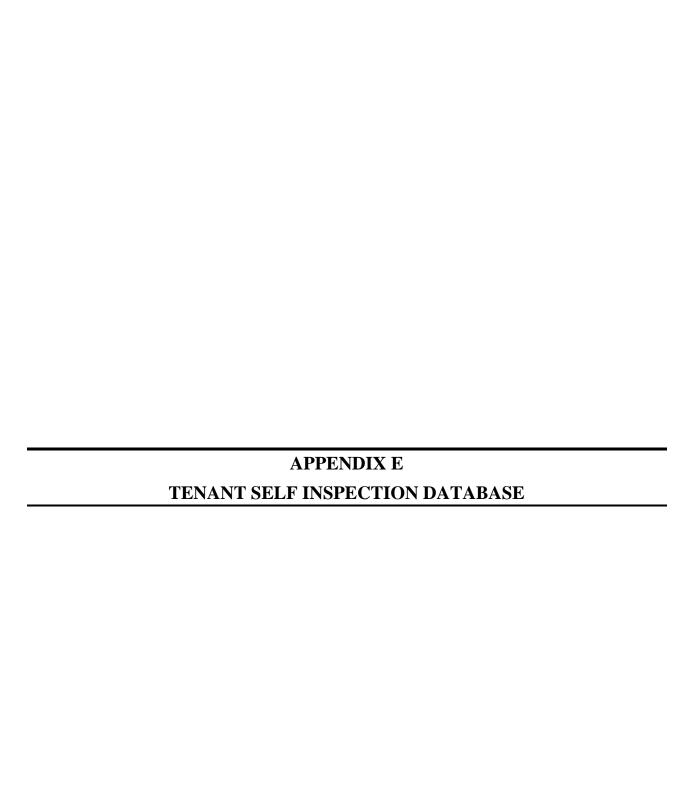
	MATERIAL AND WASTE HANDLING AND DISPOSAL	YES NO N/A	Comments
44	Waste are disposed properly, Records are kept and hazardous waste generator status is known. Facility has an Environmental Protection Agency (EPA) hazardous waste generator identification number and follow appropriate regulations/requirements (CESQG, SQG, LWG). Submit copy of EPA's letter.		Waste Generator ID Number:
45	Hazardous waste and used oil storage areas have adequate secondary containment and integrity protection.		
46	Personnel who handle hazardous waste and/or universal waste or come into contact with hazardous waste/universal waste are trained and training records are documented, and past training logs are available at the facility.		Date of Last Training:
47	Containers are compatible with materials, free of damage, labeled correctly.		
48	Storm water accumulation in secondary containment areas is minimized, managed, disposed of correctly, and logged.		
49	Waste storage areas are free of unattended spills or degradations indicating poor waste handling practices.		
50	Materials such as grease, oil, antifreeze, brake fluid, cleaning agents, hydraulic and transmission fluid, solvents, paints, batteries and filters are recycled or disposed of properly.		
51	Out-of-service, spent lead acid batteries are protected from contact with stormwater runoff, and placed in secondary containment.		
52	Dumpsters and recycle bins are kept closed when not in use.		
53	Potential pollutants are stored under covered areas.		
54	Waste reduction opportunities have been explored and implemented.		
	DIFFIC DUIL DINGS AND ODGUNDS HOUSEKEEDING	VEO NO N/A	
55	PIERS, BUILDINGS, AND GROUNDS HOUSEKEEPING  Spills are cleaned thoroughly. Petroleum spills are cleaned until water added to spill area does not produce sheen.	YES NO N/A	Comments
56	Good housekeeping controls are implemented to contain debris and pollutants generated by building maintenance activities.		
57	All work areas and storage areas are neat and clean.		
58	Paved surfaces are swept vs. washed down and sweepings are disposed of properly.		
59	There is no dirt/debris accumulation/buildup in parking areas.		
60	Fertilizers, pesticides, and herbicides are applied according to manufacturer's instructions and not applied before or during a rain event.		
61	Storm water drainage system is maintained regularly.		
62	Excessive watering of landscaped areas is avoided.		

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	OIL/WATER SEPARATORS MAINTENANCE	YES NO N/A	Comments
63	Operation and maintenance of oil/water separator is adequate and wastes are disposed of properly.  Maintenance log/disposal manifest available for inspection		
·		_	
	RUNOFF RETENTION BASINS	YES NO N/A	Comments
64	Catch basins are clean and free of debris and stains.		
65	Sediment build up in the basin is monitored, removed when necessary, and disposed of properly.		
ı			
	EMERGENCY SPILL CLEANUP PLANS	YES NO N/A	Comments
66	Tenant SPCC/Emergency Spill Cleanup Plan is adequate and being implemented effectively.		
67	Spill kits are in high-risk areas and are appropriately stocked.		
68	Spill kits are inspected and replenished monthly or after kits are utilized.		
69	Employees have been trained in spill prevention and response and spill and training records are maintained on site.		Date of training:
70	The National Response Center (NRC) Phone Number is available on-site for immediate reporting of spills. NRC (800) 424-8802		
	CONSTRUCTION	VEC NO N/A	Comments
74	CONSTRUCTION	YES NO N/A	Comments
71	Construction activities have occurred at the facility since the last inspection		
72	Construction plans have been submitted and reviewed by the Department of Transportation Harbors Division. Refer to form to be used by the construction inspectors.		
ir .		-	
	EPCRA	YES NO N/A	Comments
73	Facility is required to report chemical inventory (Tier II) and/or Toxic Release Inventory (TRI) Report. If yes, supply a copy of the report(s).		

No.	ADDITIONAL COMMENTS  No. Alleged Violation or Corrective Action						
	INSPECTION PHOTOGRAPHS						
No.	Photo Description						



### Hawaii Department of Transportation Harbors Division Tenant Self Inspection - Honolulu Harbor

Tenant	Activity	Lease Number	Permit Number	SIC Code	NPDES Permits	SARA III	Other Federal Permits
1726, INC. dba MARK GLEN AUCTIONS	Auction	20000 110111001	H-00-204	0.0 0000	Jeo i onino	no	NA NA
AALA Produce, INC. dba AALA SHIP SERVICE	Ship Chandler	H-98-2	11 00 204			No	N/A
AIRCRAFT SERVICE INTERNATIONAL GROUP / HAWAII	Relieve, Test, Store, Distribute Jet Fuel	11-90-2	H-81-953	424710		Yes	No No
FUELING FACILITIES CORPORATION				424/ IU			
AKANA TRUCKING, INC.  ALOHA AGRICULTURAL CONSULTANTS, INC. dba NIU	Equipment hauling		DOT-94-64			No	N/A
NURSERY	Wholesale Garden Supplies		H-00-2233 H-97-1985			No	N/A
ALOHA CARGO AGENCY, INC.	Deck Barge Discharge and Loading		H-02-2321 H-93-1822	483111		No	PHMSA Haz Mat Cert. Of Registration #050306 60
ALOHA CONTAINER SALES & RENTAL, INC.	Sale and Rental of Ocean Cargo Containers		H-02-2344	4222		No	No
ALOHA LIQUEURS, INC	Distilled Spirits		DOT-94-90			No	
ALOHA TOOL & RENTAL, INC. dba Honolulu RECOVERY SYSTEMS CO.	ecycling- Cardboard, Newsprint, containers, e	H-97-1992	H-97-1999 H-97-1998, H-07-2591		HI R60C056	No	No
Aloha Tower Markerplace							
ALUMINIUM SHAKE ROOFING, INC.	Metal Work		DOT-94-86			No	No
AMAZON CONSTRUCTION COMPANY, INC.	Specialty Contractor		H-98-2104 DOT-96-136			No	No
AMERICAN DIVERS, INC.	Commercial Diving Operations		H-89-1596			No	No
AMERICAN GUARD SERVICES, INC.	Security Guard Services					No	No
AMERICAN MARINE CORPORATION	Marine Construction Operations		H-01-2277 H-01-2256 H-86-1384 H-86-1386	5		No	No
AMERON INTERNATIONAL CORPORATION dba AMERON HAWAII	Produce ready mix concrete		H-97-1978 H-87-1453	3273	Sand Island HI0021075, P	No	No
ANCHOR CONSTRUCTION MANAGEMENT CORP.	Contractor		H-99-184			No	No
ANUENUE REFUSE, INC.	Refuse Hauling		H-98-2093		DOH File # R60C056	No	No
ARA CONTRACTING	Storage		DOT-96-144			No	No
ARITA/POULSON GENERAL CONTRACTING	General Contracting		H-98-2101			N/A	N/A
ATLANTIS SUBMARINE HAWAII							
BCP CONSTRUCTION COMPANY OF HAWAII, INC.	Construction		H-02-214			No	N/A
BROOKINS BOATWORKS, LTD.			H-03-2396			No	No
BURLINGTON ENVIRONMENTAL, INC. c/o PSC INDUSTRIAL OUTSOURCING, INC.	10-Day Hazardous Waste Transfer Facility		DOT-94-77			No	DOT PHMSA
CB TECH SERVICES			DOT-95-108				
CENTRAL PACIFIC DISTRIBUTING, INC.	Flooring Distributor		DOT-95-107			No	No
CERTIFIED SHEETMETAL	Sub Contractor for Sheet Metal		H-99-187			No	No
CHASE SALES & DISTRIBUTION, INC.	Wholesaler		DOT-97-150			No	No
CHEVRON U.S.A., INC. Honolulu Transportation terminal			H-00-2230 H-93-1812 H-92-1769 H-92-1765	5171		No	No
CHEVRON U.S.A., INC.Honolulu Marine Terminal			H-00-2230 H-93-1812 H-92-1769 H-92-1765	5171		No	No
City & County of Honolulu, DEPT. OF ENVIRONMENTAL	Wastewater Pumping Station		H-69-7: Non-Exclusive Easement for the Ala Mo	ļ	HI R90A411	No	No
SERVICES City & County of Honolulu, Honolulu FIRE DEPARTMENT	Fireboat Operations		H-91-22			No	No
(PIER 15) City and County of Honolulu HNL Police Dept. Attn: Juvenile	Storage	H-203				No	No
Services, P.A.L.  CLASSIC TILE CORPORATION	Construction Warehouse	200	DOT-93-13			No	No
CLEAN ISLANDS COUNCIL							
CLEAN ISLANDS COUNCIL	Emergency Oil Spill Response		H-93-1815 H-90-1689 H-94-1842			Yes	None

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CONCRETE CORING COMPANY OF HAWAII, INC.	Contractor Yard Space		H-02-2355 / H-00-2235			No	No
CONTAINER STORAGE COMPANY OF HAWAII	Store Ocean Containers		H-01-211			No	No
CONTROL TECH, LLC	Electrical Subcontractor		H-00-196			No	No
CONVENTION SET BUILDERS, INC.	Convention Set Builders		DOT-98-177			No	No
CUSTOM BILT METALS	Metal Roof and Gutter Distributer					No	No
D & K PETROLEUM, INC.							
DAVENPORT HAWAII PARTNERS, LP	Office and Warehouse	H-85-1				No	No
DAVID D. CHANG AND EUN IK CHANG							
DD-M LEASING, INC.	Office Space Only	H-300138	H-04-2467			No	
DEDRICK, DEWAIN A. dba Bella Pietra	istribution Natural Stone Tle no manufacturin	H-06-2552	H-02-2383			No	None
DEPENDABLE HAWAIIAN EXPRESS, INC.	Freight Forwarding		H-01-2285			No	N/A
DIVISION 8, INC.	Glass Contracting		DOT-96-142			No	No
DONAHUE, SHANNON dba PARADISE EQUIPMENT	Storage					No	No
DON'S MAKIKI	Parking of Tractors and trailers		H-98-170	812930		No	No
DRAFTSTONE COMPANY, INC.			H-01-2274			No	No
EAST WEST MARKETING, INC.	Marketing					No	No
EQUILON ENTERPRISES, LLC/Shell Oil Products US Honolulu Terminal	Petroleum Fuel Terminal		H-98-2068 H-98-2067 H-98-2066 H-98-2065 H	5171	HIR80B250; HI02FB319;	Yes	None
ERIK BUILDERS, INC.			H-98-2092 H-97-1984				No
FIVE "C" CORP dba WESTERN OVERHEAD DOORS	dential and Commercial Door Installation & R	epair	H-97-158			No	No
FIVE STAR ROOFING, LLC	Roofing		H-00-193 H-08-2630			No	No
FRANK P. WHITE JR. PROPERTIES dba CONTAINER STORAGE CO.	Storage of Ocean Containers Empty		H-01-211 H-97-1986			No	No
Fresh Island Fish, LLC	Fresh fish Wholesaler	H-05-24				No	No
FRIENDS OF FALLS OF CLYDE							
FRIENDS OF HOKULE'A & HAWAI'ILOA	Canoe Building/Repair		H-98-2074	3732		No	N/A
FUKUNAGA, PAUL N. dba P.F. MARINE	Fiberglass boat repair		H-02-2339			No	No
GILLIS, EUGENE dba EXCAVATION SERVICES	Storage		H-02-2366			No	No
GLOBAL SPECIALITY CONTRACTORS, INC.			H-98-173			No	No
GMB VINYL, INC. dba GMB VINYL FENCING	Vinyl Siding		H-98-163			No	No
GREAT PACIFIC WHOLESALE CO., LLC	Wholesale Footwear		H-03-2399			No	No
HAJALEE INC, dba KALIHI QUEEN'S SUPERMARKET	Storage		H-07-2592			No	No
HARDY CONSTRUCTION CO., INC.	Contracting- General Building		H-02-216			No	No
HAWAII EXPLOSIVES & PYROTECHINICS, INC.	Storage of floating platform on trailer		H-02-2385	7389		No	N/A
HAWAII MARITIME CENTER	Museum and Falls of Clyde	H-87-30		712110		N/A	N/A
HAWAII PACIFIC PLUMBING SUPPLY	Wholesale plumbing supply distribution		H-03-2414			No	N/A
HAWAII PAINTING & WALLCOVERING	Storage		H-99-2153			No	N/A
HAWAII STEVEDORES, INC.	Marine Cargo Handling	H-90-4	H-98-2038 H-96-1912 H-92-1794 H-90-1682	H-92-1753 H-84-11	R80A305	No	No
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HAWAII TOYS & GIFTS			DOT-96-133				
HAWAII TRANSFER COMPANY, LTD.	Trucking and Warehousing	H-98-9	H-02-2375		NGPC File No. HIR80B40	No	No
HAWAIIAN AQUA PRODUCTS	Fiberglass Fabrication, Boat Building		H-97-2002		HI R20A 196	no	N/A
HAWAIIAN CRUISES, LTD.							
HAWAIIAN ELECTRIC COMPANY, INC.		H-03-11 H-91-1					
HEUMANN, JAMES dba WIND & SEA CHARTERS	Woodworking - Boat repair		H-99-2128			No	No
HIROSE ELECTRIC	Electrical Contractor		DOT-96-132			No	No
HI-TEC ROOFING, INC.	Office/Warehouse and Sheetmetal Shop		DOT-94-59	238160		No	No
HONOLULU COMMUNITY ACTION PROGRAM, INC. aka OAHU HEAD START	Office/Warehouse		DOT-93-9	624410		No	No
HONOLULU MARATHON ASSOCIATION	Produce Long Distance Running Events		H-06-2544			No	No
HONOLULU RECOVERY, INC.							
HOOK UP TOWING, INC.	Towing		H-03-2398			No	No
HORIZON LINES, LLC	Ocean Cargo Terminal Facility	H-90-4		483111	HI R808909	No	No
HPBS, INC.	Harbor Pilots		H-99-2159 H-93-1819			No	N/A
HPC FOODS, LTD.	Electrical Marine Work		H-02-2318			N/A	N/A
IAN J. LANSDOWN, dba HAWAII'S SAILING CENTER							
INCHCAPE SHIPPING SERVICES							
INDUSTRIAL CHEMICAL & LUBRICANTS, INC.	Chemical distributor		DOT-93-12 H-06-2542	2842		Yes	
INTERNATIONAL EXPRESS, INC.	trucking- unloading of containers	H-99-7	H-02-2370 H-98-171			No	N/A
ISHIKAWA, NORMAN & DOLORES dba NORMAN'S TRACTOR SERVICE	Demolishing, Grading & Hauling		H-97-1988			No	None
ISLAND MOVERS	Warehousing		H-00-2197 H-90-1642	4225	HI R80A506	No	No
JAPAN FOOD (HAWAII), INC.	Japanese Food		H-02-2330			No	No
JAS. W. GLOVER, LTD	Aggregate & RAP Stockpiling		H-06-2553		HI R70C472	No	No
JET PRO, INC.	Sales Office		H-00-202			No	No
KAGAMI, INC.	al Investigation of Subsurface Area, Remedia	ation Activities Piers 18-38	H-02-2343			No	No
KEALOHALANIEQUIPMENT & RENTAL, INC.							
KERR PACIFIC CORP, dba HFM Foodservice		H-86-1 H-79-1					
KIRKWOOD CLARKE dba HAWAIIAN CATAMARAN MULTIHULL DESIGN	Boat repair and fabrication- some welding		H-97-2000			No	No
KNIGHT UNLIMITED, dba KNIGHT TRANSPORT							
KONG ENTERPRISES, INC.	Dry good storage					No	No
K-Sea Transportation, Hawaii Division (formerly UAUKEWAI DIVING, SALVAGE & FISHING, INC.)	Operating towboats		H-01-2273 H-01-2249 H-93-1816 H-93-1804			No	No
KUMU CORP.	Transmission Parts		H-97-1995			N/A	N/A
MARINE PETROLEUM CORPORATION	Distribution		H-98-2082	5172		No	No
MARINE SPILL RESPONSE CORPORATION	Oil Spill Response		H-94-1845	4959 NAICS-56291	)	No	No
MARITIME LICENSE CENTER	Life Boat Training		H-02-2364 H-01-2298			No	No
MASUDA, RICHARD dba RICHARD K. MASUDA MASONRY	-		H-97-1987				
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MATSON NAVIGATION COMPANY, INC.			H-84-1237				
MAUGA-OLIVE SAMOAN ASSEMBLY OF GOD	Church		DOT-97-152			No	No
MILITARY HQ	Retail Storage		DOT-95-101			No	No
MILLER INDUSTRIES	Automotive Repair Equipment		DOT-94-87			No	No
MLC INT'L LLC, dba PERFORMANCE LANDSCAPE	Landscaping		H-06-2541			No	No
MOANA PA'A KAI, INC. (Subsiduary of Young Brothers)	Towing and Tugboat Services		H-99-2175	483211	HI R80B059	No	No
MYSUNG SOO HAN dba HAN'S ELECTRIC	Office and Stoarge					No	None
NAKAMURA, RODNEY S. WELDING	Welding, Fabrication and Repairs	H-99-188	Acct# 500053			No	None
NANAKULI NEIGHBORHOOD HOUSING SERVICES	ecycling Construction Materials, Homeowners	ship Training	H-01-2248			No	None
NCL AMERICA, INC. (1 ship in service- Pride of America)	Storage		H-05-2480			No	No
NORKO MARINE AGENCY, INC.	General Office		H-01-2314			No	No
Oceanic Libra Corp	Fishermen	H-99-3					
OCEANTRONICS, INC.	Marine & Landmolile Sales, Service & Repair		H-98-2102			No	No
P & R WATER TAXI, LTD.	Provide Water Taxi Service to Barber's Point		H-05-2504 H-91-1714	4489	HI R80A153	No	None
PACIFIC COMMERCIAL SERVICES, LLC	Environmental Services	H-02-223	H-06-2529			No	No
PACIFIC DIVERS EQUIPMENT SUPPLY, INC.							
PACIFIC ENVIRONMENTAL CORPORATION	Full Service Environmental Company		H-98-2055 H-96-1898 H-93-1817	NACICS- 562910		N/A	No
PACIFIC FISHING AND SUPPLY, INC.	Commercial Fishing Supplies		H-97-1969			No	None
PACIFIC OCEAN PRODUCERS, INC.	ales of Commercial and Sport Fishing Supplie	H-03-18	H-98-2096 H-98-2079 H-95-1865	441222, 451110		No	None
PACIFIC RIM TRADING GROUP, LTD.	Wholesale distribution	500156	H-07-2576			No	No
Pacific Shipyards International, LLC	Ship Building and Repairing		H-98-2123 H-84-1229	3731	HI0020753	No	No
PANG, SANDRA dba SP LUNCH WAGON	Lunch Wagon		H-91-1735			No	No
PARADISE CRUISE, LTD.		H-98-11 (Pier 8 Mooring p	H-99-2137 Terminated 10-06, H-98-2121, H-9	4-1843 Terminated 1	-99, H-89-1585 Terminate	No	No
PARADISE INN HAWAII, LLC dba Tsukiji Fish Market							
PBC WHOLESALERS, INC.	Wholesale School & Office Supplies		DOT-94-76			No	No
PENDLETON FLOUR MILLS, LLC dba HAWAIIAN FLOUR MILLS	Flour Milling		H-01-2283	2041		No	No
PETROSPECT, INC.	Petroleum Inspection		H-88-1517 H-87-1411			No	No
PIONEER MACHINERY, INC.	Casting Concrete Slabs		H-90-1678	327390		No	N/A
PRIME BUILDERS	Construction Contractor		DOT-96-146			No	No
PROJECTS ENTERPRISES, INC.	General Contractor		H-03-2410			No	N/A
PROPARK, INC.	Customer Parking for Hawaii Superferry					No	No
PROTECH ROOFING, LLC	Roofing Contractor/Storage		H-03-2407			No	No
PRYNE, TY dba H.B.N.	Boat Storage		H-01-2271			No	No
QUICK MOVE, INC.	Storage		H-98-162			No	No
RDH TRANSPORTATION & LEASING	Transportation-Passanger			4141-Local Bus Ser	vice	No	No
REBECCA'S FINE COLLECTION dba R.F.C. GROUP	Tanaportation-1 assauger			TITI-LOCAL DUS GEI	100		
REBECCA'S FINE COLLECTION and R.F.C. GROUP							

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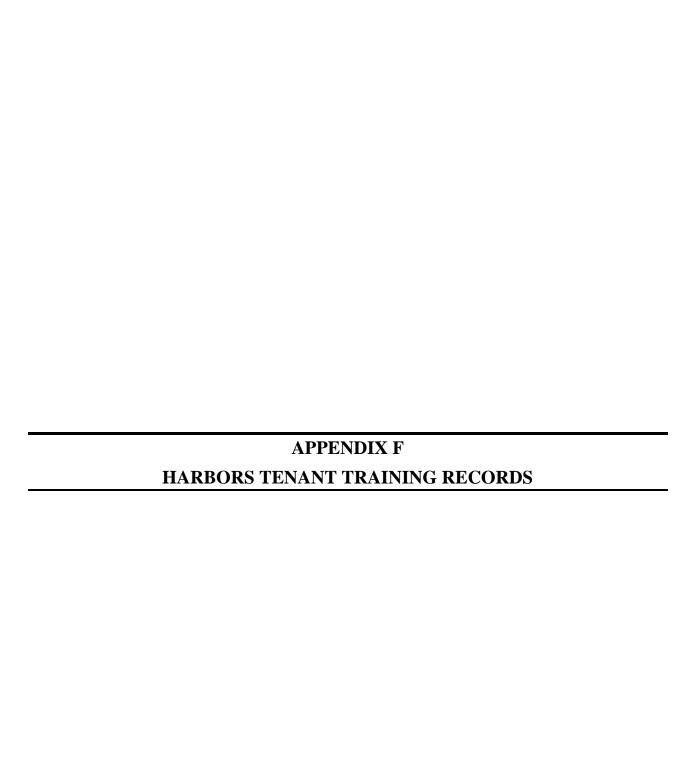
REEF DEVELOPMENT OF HAWAII, INC.	Storage - tools and equipment		DOT-94-69			No	No
ROBERT MARCOS, INC.	General Contractor		DOT-96-141			No	No
ROBERTO'S, INC.	Wholesale Distributor		DOT-96-131			No	No
RON'S CONCRETE SPECIALISTS, LTD.	Concrete Susbcontractor		H-98-2115			No	
ROYAL HAWAIIAN CRUISES			H-91-1703				
SAITO, LINCOLN TIMOTHY dba KOKUA RECYCLE	Sort and Store Glass Beverage Bottles		H-97-1991			No	None
SALASSA, FRED dba Triple F	Paper Wholesaler	H-99-6				No	No
SCHOFIELD FEDERAL CREDIT UNION	Credit Union		DOT-93-3			No	No
SEA ENGINEERING, INC.	uipment and Supply Storage, Maintenance A	rea.	H-07-2594 H-93-1814 H-01-2289	237990		No	No
SHIN WOO CORPORATION	Wholesale Juice		H-02-219			No	FDA 11584645864
SIU, WAI LUN	Food Service		H-98-2114 H-00-2199			No	No
SOUTHERN FOODS GROUP dba MEADOW GOLD						No	
STATE OF HAWAII, DOAG/CRIMINAL JUSTICE	Criminal Justice		H-99-2155			No	N/A
STEINKE BROTHERS, INC.	Construction Material Storage		H-97-1981			No	N/A
SUBMARINES HAWAII, L.P. (Subsidary of Robert's Hawaii)	Mooring and Support Facility		H-99-2168 H-97-1951 H-94-1849			No	No
SUN CHONG COMPANY, LTD.	None		DOT-94-71			No	No
TAI POLYTHENE OF HAWAII, INC.			DOT-97-148			No	No
TBC, LLC	Storage		H-02-2345			No	N/A
TESORO HAWAII CORPORATION- SAND ISLAND TERMINAL	Fuel Supply and Distribution	H-80-3		5171	NGPC No. R80A725	Yes	No
THE CUSTOM CO., INC	T-shirt processing and Storage warehouse					N/A	N/A
THE GAS COMPANY, LLC	LPG Storage and Propane Air Unit	H-03-2424	H-93-4 H-80-9 H-72-15 H-69-4			Yes	No
THE PASHA GROUP, dba PASHA HAWAII	Loading/Unloading Household Crates		H-06-2565			No	N/A
THE SHACK WAIKIKI, LLC							
THE SUSSEX CO., INC.	Storage		DOT-96-128			No	No
THE WEBE CORPORATION, LTD. (Subsidiary of Robert's Hawaii)	ing of Alii Kai and Conduct Cruise Boat Oper	H-84-11	H-05-5208			No	N/A
THEOPHYLLUS, INC. dba KANO TRUCKING	Storage		H-02-218	484110		No	No
TRANSMARINE NAVIGATION CORPORATION							
TROPICAL J'S, INC.	Manufacturing		DOT-94-80			No	No
TROPICAL RAIN GUTTER AND ROOFING, INC.	Roofing and Raingutter Sales/Installation	H-02-217	H-02-217			No	No
TROUBLE FREE CORP.	Boat Building		H-03-2422			No	No
U.S. BUREAU OF CUSTOMS AND BORDER PROTECTION, DEPARTMENT OF HOMELAND SECURITY	ration Processing, Enforcement, Detention/R	emova	H-03-2419 H-97-1934			No	No
U.S. COAST GUARD							
U.S. DEPARTMENT OF COMMERCE NOAA, NATIONAL MARINE FISHERIES SERVICE	Non Commercial Scientific Research		H-81-946			No	No
UNIROC MARBLE & Granite	Wholesaler of Oriental Goods		DOT-95-118			No	No
UNITED EXCAVATION EQUIPMENT CORPORATION	Excavating Contractor		H-00-2209			No	No
UNITED FISHING AGENCY, LTD.	Fish Auction	H-03-17	H-98-2037	422460		No	No

1/14/2011 Page 5 of 6

### Hawaii Department of Transportation Harbors Division Tenant Self Inspection - Honolulu Harbor

UNITEK TECHNICAL SERVICES, INC.	Insulation Storage	H-99-182		No	No
UNIVERSAL WHOLESALER ASSOCIATION, INC.	Wholesaler / Distributer	H-03-2400		No	No
URS CORPORATION					
VAN, KEVIN dba HI-SEA HAWAII FISHING SUPPLY	Selling Gears, Bait	H-97-1936		No	No
VIKING V., INC.	Storing Fishing Gear (Lobster Traps)	H-97-1971, H-05-2515		N/A	N/A
WALDRON NORTON LILLY INTERNATIONAL, LLC					
WELSH, JR., DARRELL G., AIA	Architecture	H-99-2134		No	
WIKOLIANA EDUCATIONAL EXCURSIONS, LLC					

1/14/2011 Page 6 of 6



Weston Solutions, Inc Suite 2301 841 Bishop Street Honolulu, HI 96813 808-275-2900 Fax: 808-585-7378

### STORMWATER MANAGEMENT TENANT TRAINING November 3, 2010 **HDOT HARBORS**



### SIGN-IN SHEET

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COMPANY Ali Mei Lotemand PRINT NAME	Roberts Hawaii	HARDY COUST CO	HONDLY LA MARTHON A	ARIPA POURSON GEN CONN	NothanSapen	concret cortro	JAS. W. GLOVER, Utro.	Queen's Supermortet	Kagami Inc	D"HX	(ETROSPECT) INC.	HPD-8AC	Clean Islands Cowell	Transition The Tac		T.T. KAND TRUCKING	Hawailen Tugi Brach	DOEPNIL DIPLAI	(3/K)

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Weston Solutions, Inc Suite 2301 841 Bishop Street Honolulu, HI 96813 808-275-2900 Fax: 808-585-7378

### STORMWATER MANAGEMENT TENANT TRAINING November 5, 2010 **HDOT HARBORS**



### SIGN-IN SHEET

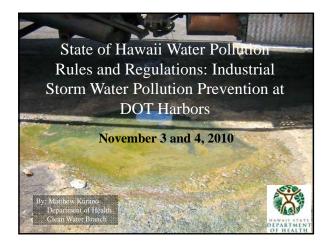
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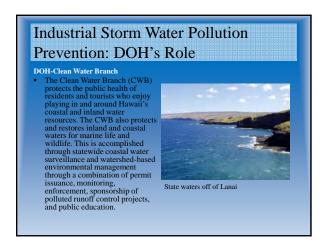
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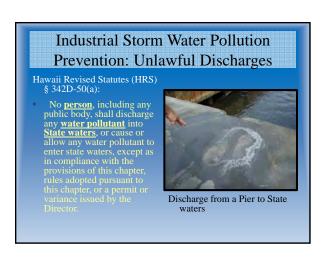
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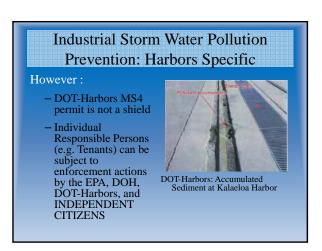


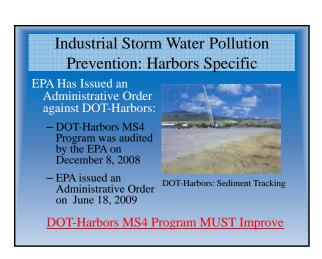


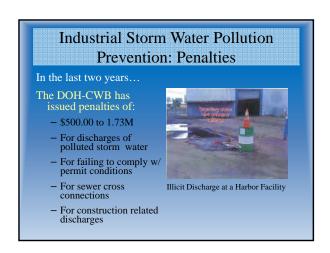




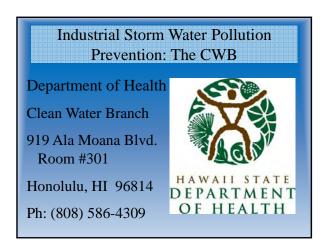














### Introduction

- Hawaii Department of Transportation Harbors Division
- Mr. Carter Luke PE Engineering Program Manager
- □ Mr. Randal Leong PE Environmental Engineer
- Mr. Richard Min Environmental Health Specialist
- Weston Solutions, Inc.
- ■Mr. Mark Ambler PE, PMP
- ■Mr. Joe Weidenbach
- Hawaii Department of Health
  - ■Mr. Matthew Kurano

### **Upcoming Award** 2011 Environmental Manager of the Year

Program Focused on Directing Meaningful Change

for Exemplary Management of a Tenant Stormwater

### Agenda

- Regulatory Background
- Harbors (Small MS4) General Permit Requirements
- Public Education
- Public Participation
- □ Illicit Discharge Detection and Elimination (IDDE) Program
- □ Construction Site Run-Off Control
- Post Construction Control
- □ Video Presentation (20 mins) "Storm Watch"
- □ Pollution Prevention and Good Housekeeping
- □ Facility Inspections
- □ Enforcement Response Program
- □ Contact Information
- Questions and Answers

### **Recent Program History**

- HDOT Harbors General Permit May 19, 2003
- EPA Audit December 2008
- Finding of Violation June 18, 2009
- Tenant Inspections November 2009
- Stormwater Management Plan Revision Dec 2009

### Federal Regulatory Background

- Clean Water Act (40 CFR 100-149)
  - 1972 Clean Water Act- Swimmable, Fishable
  - 1987 Amendements NPDES (National Pollutant Discharge Elimination System) regulations
- □ NPDES Environmental Protection Agency Regulatory Authority □ Phase I issued in 1990 - Individual Permit
  - Industrial Facilities (PENDING MODIFICATION AND RENEWAL)

  - Construction Sites > 5 acres (PENDING MODIFICATION AND RENEWAL)
     Medium and Large Municiple Separate Storm Sewer System (MS4)
  - □ Phase II issued in 1999 General Permit

  - Construction Sites > 1 acre, < 5 acres (PENDING MODIFICATION AND RENEWAL)
- MS4 conveyance that is owned by a state, city, town, village, or other public entity that discharges to waters of the U.S.; designed or used to collect or convey stormwater; and not combined with sewer.

## Hawaii Regulatory Background NPDES regulatory authority is administered by Hawaii Department of Health Hawaii Administrative Rules (HAR) Title 11Chapter 55 (11-55) Water Pollution Control Appendix K NPDES General Permit Authorizing Discharges of Storm Water and Certain Non-Storm Discharges from Small MS4s Harbors Division — Notice of General Permit Coverage (NGPC) HI 03KB482 — Honolulu Harbor Permit HI 03KB488 — Kalaeloa Barbers Point Harbor Permit

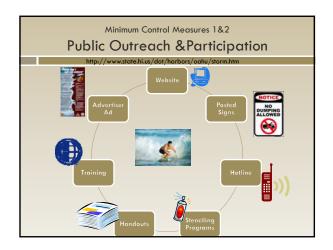


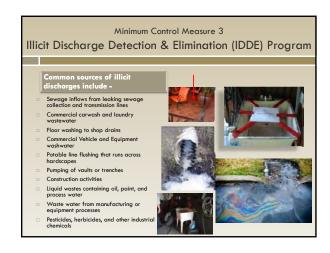
# General Permit Allowable Discharges\* Water Line Flushing Landscape Irrigation Diverted Stream Flows Rising Ground Water Uncontaminated Ground Water Infiltration Uncontaminated Pumped Ground Water Discharges from Potable Water Sources Air Conditioning Condensate Crawl Space Pumps and Footing Drains Dechlorinated Swimming Pool Water Discharges from Fire Fighting Activities \* Unless discharges "Cause or contribute to water quality objective exceedances."

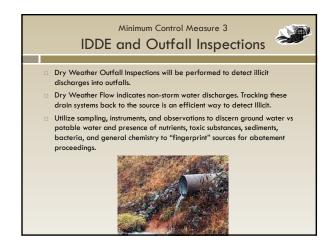
# Understanding Pollutant Transport and Management Strategies Understanding the source, vehicle, and route of storm drain pollution is key to cost effectively managing facilities and discharges. Source (leaking container, building material, spill) Vehicle / Carrier (irrigation water, wash water, rainfall, A/C condensate, ground water, etc) Route (direct dumping, swale, storm drain)

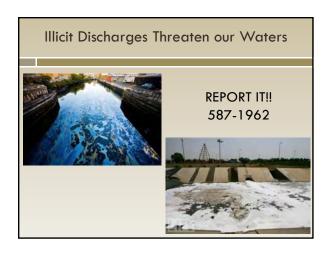






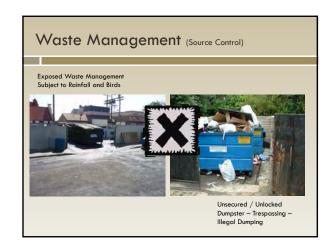






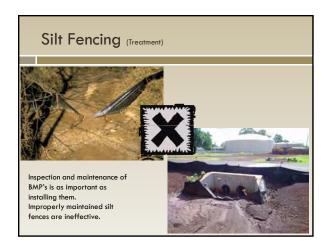




















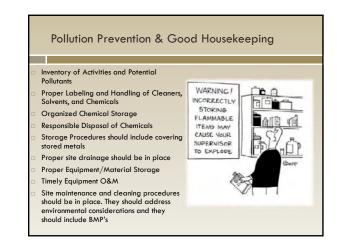


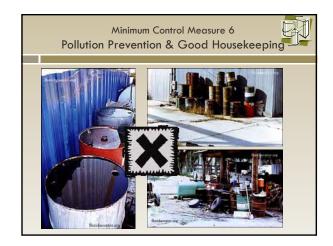












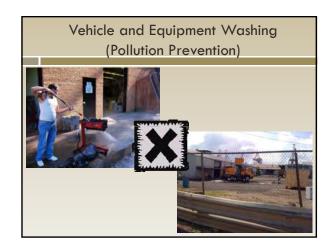








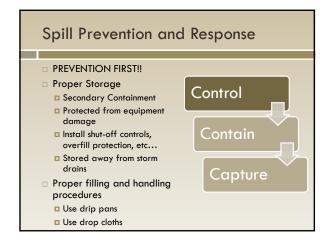
### Vehicle and Equipment Washing (Source Control) Allowed only at designated facilities Water must be contained Facility should be covered Oil/Water Separator Connected to Sanitary Sewer Wash water is NOT allowed outside/uncontained Includes discharge of mop water Includes rinsing or cleaning of waste bins Always seek approval for discharge to sanitary sewer



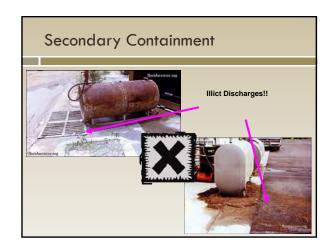




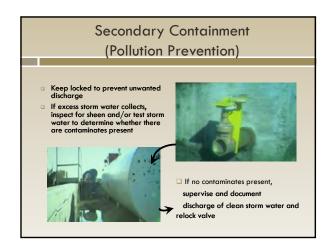














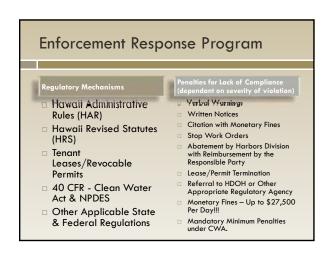


### Tenant Facility Inspections Site Inspections will be conducted for all tenants before the end of the year (2010) 1 week notification Starting with 50 high priority tenants Inspection Checklist Provided Inspection Report and Findings to be provided following Site Visits Follow-up Inspections will be scheduled if required Serious Violations will require immediate action Depending on the severity of the discharge, regulatory actions may be pursued. All inspection results and actions will be added to our database. Risk ranking developed based on findings















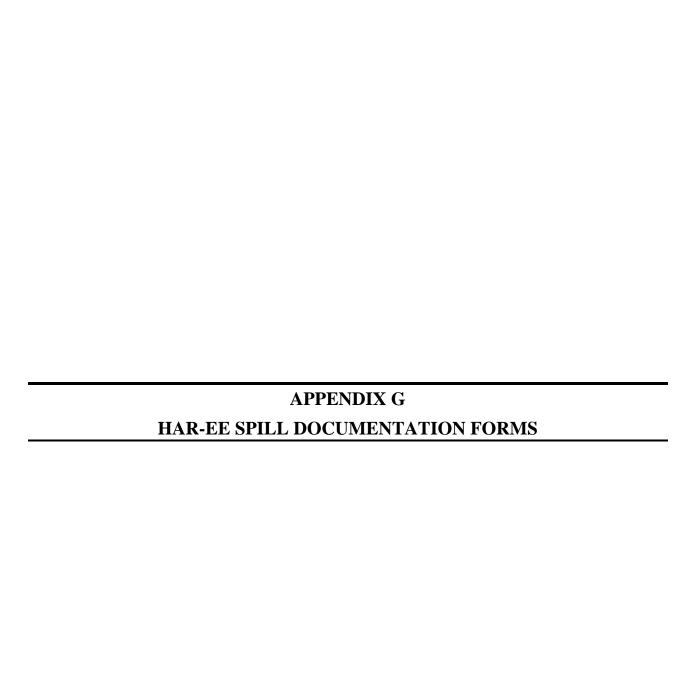
### References http://megi.bz/wp-content/uploads/2009/04/oil-runoff-into-storm-drain.jpg http://www.octopuscarwash.com/IMG\_0014.jpg http://www.octopuscarwash.com/IMG\_0014.jpg http://www.octoffcortagreensolutions.com/images/Parker-powerwash328.jpg http://s3.images.com/huge.70.351214.JPG http://www.pneac.org/stormwater/pg-stockpiles.cfm http://www.orusuds.gov/sp2userfiles/ad\_hoc/19000000SafetyHealthandEnvironmentalTrain ing/graphics/ChemicalHumor.jpg http://wb.analcadcareresearch.com.z/research/built/liudd/images/DSCN2718.JPG http://www.nutli-clean.com/cons/Dfe%20ficon.gif http://www.northsydney.nsw.gov.au/resources/images/street\_cleaner.jpg http://www.northsydney.nsw.gov.au/resources/images/street\_cleaner.jpg http://www.suntreetech.com/files/Images/Products/Curb-Inlet-Protector/curb%20inlet%20protector%204.jpg

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### References

- http://www.threetheetnorthwest.com/files/2009/02/sallbootpressure-workrep.ipg
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# **HAR-EE Spill Documentation Form**

A. Spill Information (to be provided by HAR-OCT Staf)	<i>f</i> )
Recorded (1/1 W	Time/Date Environmental Section Notified 3:34 p 11/9/10
Person reporting A Wester	phone to 72076
Location of Spill Lowers Site, Nove Whitz	Time of Spill 3 pm t Date of Spill 11/9/10
Location of Spill Lowe's Site, Nove Winitz  Substance spilled Oily Grandenter entered Amount  Stran system	t Spilled 1911 Duration of Spill unknum
Media into which the release/spill occurred:	
AirGroundConcrete/AsphaltStreamOcean	Other: Storm when system
and the same of th	
Cause of spill	
Description of clean-up actions Bown drawy co	nd
Notifications Made: WICG, WEEN Offer	
Additional information	
B. Environmental Section Information	
>CERCLA RQ (40CFR 117, 302) (Y/N)	
HEERO Notification (808) 586-4249/after hrs 247-2191	HAR-EE staff
Notified at on/	Report number
Written Notification to be submitted:(Y/N) by//_	Person notified
<b>LEPC</b> Notification (808) 523-4121 (Honolulu)/Fax 524-3439	HAR-EE staff
Notified at: on/	Person notified
NRC Notification (800-424-8802)	HAR-EE staff
Notified at : on / /	Report number

FYI...no IDPP response needed.

Thanks, Carol Mitsuyasu IDPP Project Coordinator Phone: (808) 593-1116 Fax: (808) 593-1198 Email: IDPP@urscorp.com

This e-mail and any attachments contain URS Corporation confidential information that may be proprietary or privileged. If you receive this message disclose or use any of this information and you should destroy the e-mail and any attachments or copies.

"Robert Luco" <RLuco@escie ncei.com>

To <IDPP@urscorp.com>, <Carol\_Mitsuyasu@URSCorp.com>, <terence.corpus@DOH.Hawaii.gov>, "Solomon, Rich" <Rich.Solomon@conocophillips.com>, "Elias, Anthony - Anthony" <anthony.elias-1@lowes.com>, "Casey, Liz - Elizabeth C" <Liz.C.Casey@lowes.com>, "James Manion (Jim.R.Manion@Lowes.com)"

11/09/2010

<Jim.R.Manion@lowes.com>, "Chris Robinson" <CRobinson@robcon.com>

02:56 PM

CC "Howard West" <HWest@esciencei.com>, "Lauren Cruz" <LCruz@esciencei.com>

Sub Release Notification

ject

Today at 1:30pm, approximately 1-gallon of petroleum-contaminated groundwater was released into a storm drain on Iwilei Road during construction dewatering.

A utility corridor was being excavated in Iwilei Road by Robinson Construction in order to relocate a gas line for The Gas Company. The work was being conducted in association with the construction of the Lowe's HIW Iwilei retail store. Groundwater was being pumped out of the excavation and infiltrated into an adjacent excavation. Gutter buddies were installed at the storm drain inlets along Iwilei Road prior to the start of the excavation work. Free product was observed floating on the groundwater in the excavation at approximately 3.5 feet below the ground surface. Free product was prevented from entering the dewatering pump by using petroleum-absorbent booms and pads and keeping the suction line submerged. During the dewatering process, a dump truck operated by Robinson Construction drove over the 2-inch diameter dewatering discharge hose and caused the hose to rupture. Petroleum-contaminated groundwater was released onto Iwilei Road for approximately 10 seconds before the pump was turned off. All but approximately 1-gallon of petroleum-contaminated groundwater was diverted back into the excavation. Approximately 1-gallon of petroleum-contaminated groundwater was released into a storm drain inlet on Iwilei Road. The storm drain was located on the south side of Iwilei Road near the Iwilei Road exit from the 356 Pacific Street property (Latitude: 21°18'56.53"N Longitude: 157°52'17.02"W). Free product or a petroleum-hydrocarbon sheen were not observed on the water released onto the street.

The DOH-HEER Branch (Terry Corpus), USCG (Petty Officer Lemos), and the NRC (online notification) were notified

within 30 minutes of the release occurring.

At approximately 2:15pm, the USCG arrived at the site to conduct an investigation.

I will follow this written report up with photos tomorrow morning.

From this point forward, we will ensure that the dewatering pump hoses are routed away from traffic and protected using protective hose covers. We will also completely seal nearby downgradient storm drain inlets before dewatering by using waterproof silicone mats and curbs. The waterproof silicone mats and curbs will be removed once dewatering is complete each day.

Please let me know if you have any questions or concerns regarding this incident.

Thanks, Rob.

Robert A. Luco
Senior Project Manager
Environmental Science International, Inc.
354 Uluniu Street, Suite 304, Kailua, Hawaii 96734
Cellular (808) 630-5744 / Office (808) 261-0740 / Fax (808) 261-0749

# **HAR-EE Spill Documentation Form**

A. Spill Information (to be provided by HAR-OCT Stage		1:518	
Recorded W/9 W	_Time/Date Environments	al Section Notified	
Person reporting Nikla	Phone 587 2071		
Location of Spill 7/18	_ Time of Spill	Date of Spill	
Substance spilled Grindings Amount			
Media into which the release/spill occurred:			
AirGroundConcrete/AsphaltStreamOcea	n Other:		
Responsible Party Vusul taund G.			
Cause of spill - Qrinding rusted point into o			
Description of clean-up actions			
Notifications Made: USGG, DOH Clem WAw  Additional information			
B. Environmental Section Information			
>CERCLA RQ (40CFR 117, 302) (Y/N)			
HEERO Notification (808) 586-4249/after hrs 247-2191	HAR-EE staff		
Notified at: on//	Report number _		
Written Notification to be submitted:(Y/N) by//			
LEPC Notification (808) 523-4121 (Honolulu)/Fax 524-3439			
Notified at; on//			
NRC Notification (800-424-8802)			
Notified at : on / /	Report number		

# **HAR-EE Spill Documentation Form**

A. Spill Information (to be provided by HAR-OCT Ste	aff)	,
Recorded 7/7/10/W	Time/Date Environmental	Section Notified 7/7/(18, 8:4)
Recorded 7/7/10 /W  Person reporting Clorence Commune	Phon	e <u>72076</u>
Location of Spill 741/42	Time of Spill \$:30	_ Date of Spill _ 7(7/10
Substance spilled 5.14 Amount	unt Spilled	_ Duration of Spill
Media into which the release/spill occurred:		
AirGroundConcrete/AsphaltStreamOce Responsible Party \to W \to V \to W		
Cause of spill (1)		
Description of clean-up actions		
Notifications Made:		
Additional information		
		******
B. Environmental Section Information		
>CERCLA RQ (40CFR 117, 302) (Y/N)		
HEERO Notification (808) 586-4249/after hrs 247-2191	HAR-EE staff	
Notified at: on //	Report number	
Written Notification to be submitted:(Y/N) by/		
LEPC Notification (808) 523-4121 (Honolulu)/Fax 524-3439		
Notified at: on //		
NRC Notification (800-424-8802)		
Notified at; on //		THE RESIDENCE OF THE PARTY OF T

# **HAR-EE Spill Documentation Form**

A. Spill Information (to be provided by HAR-OCT Staff)	1
Recorded 6/25/15, W	me/Date Environmental Section Notified 6/25 (1:13
Person reporting Bry Wim	Phone 7 2076
Recorded 6/25/15 W Ti  Person reporting Bry Cim  Location of Spill KBPH P-5	Time of Spill 11 m Date of Spill 6 / 1/10
Substance spilled Black Oil Amount S	pilled Duration of Spill
Media into which the release/spill occurred:	
_Air _Ground _Concrete/Asphalt _Stream _Ocean  Responsible Party At Im his Olive	Other:
Cause of spill	
Description of clean-up actions	
Notifications Made: USG OUL	
Additional information	
, should be a second of the se	
B. Environmental Section Information	
>CERCLA RQ (40CFR 117, 302) (Y/N)	
HEERO Notification (808) 586-4249/after hrs 247-2191	HAR-EE staff
Notified at: on /	Report number
Written Notification to be submitted:(Y/N) by//_	
LEPC Notification (808) 523-4121 (Honolulu)/Fax 524-3439	HAR-EE staff
Notified at: on /	Person notified
NRC Notification (800-424-8802)	HAR-EE staff
Notified at on / /	Report number

### **HAR-EE Spill Documentation Form**

Regardless of amount of spill, all spills of oils, hazardous materials, or unknown chemicals must be immediately recorded on this form. 6/22/10 A. Spill Information (to be provided by HAR-OCT Staff) Time/Date Environmental Section Notified 4:00 fm Recorded Person reporting Town Phone 7207L Mu 2 Time of Spill 3:30 Date of Spill 6/22/10 Location of Spill Substance spilled \_\_\_\_ Media into which the release/spill occurred: \_\_Air \_\_Ground \_\_Concrete/Asphalt \_\_Stream \_\_Ocean Other: \_\_\_\_\_ Responsible Party Bonge Antrus Cause of spill unknown Description of clean-up actions USCG Notifications Made: USCG Additional information \_\_\_\_\_ **B.** Environmental Section Information >CERCLA RQ (40CFR 117, 302) \_\_\_ (Y/N) HEERO Notification (808) 586-4249/after hrs 247-2191 HAR-EE staff Notified at \_\_\_:\_\_ on \_\_\_\_/\_\_\_/\_\_\_\_ Report number \_\_\_\_\_ Written Notification to be submitted: \_\_(Y/N) by \_\_\_/ / Person notified \_\_\_\_\_ LEPC Notification (808) 523-4121 (Honolulu)/Fax 524-3439 HAR-EE staff Notified at \_\_\_:\_\_ on \_\_\_\_/\_\_\_/ Person notified \_\_\_\_\_ NRC Notification (800-424-8802) HAR-EE staff Notified at \_\_\_\_\_ on \_\_\_ /\_\_\_ /\_\_\_\_ Report number

# HAR-EE Spill Documentation Form

A. Spin information (to be provided by HAR-OCI Staff)	
Recorded OCTTim	e/Date Environmental Section Notified 8:53 m 17
Person reporting Principal waters	Phone 72076
Location of Spill huw waters Tir	ne of Spill Date of Spill
Location of Spill The W Workers Time  Substance spilled Black for Sheen Amount Spi	lled Z × 30 Duration of Spill
Media into which the release/spill occurred:	
AirGroundConcrete/AsphaltStreamOcean C	Other:
n Isaku n.m	
Cause of spill	
Description of clean-up actions USCG, Est work	and
Notifications Made:	
Additional information	
D. Environmental Castian Information	
B. Environmental Section Information >CERCLA RQ (40CFR 117, 302) (Y/N)	
HEERO Notification (808) 586-4249/after hrs 247-2191	HAR-EE staff
Notified at: on //	Report number
Written Notification to be submitted:(Y/N) by/_ /	
LEPC Notification (808) 523-4121 (Honolulu)/Fax 524-3439	HAR-EE staff
Notified at:on//	Person notified
NRC Notification (800-424-8802)	HAR-EE staff
Notified at : on / /	Report number

# **HAR-EE Spill Documentation Form**

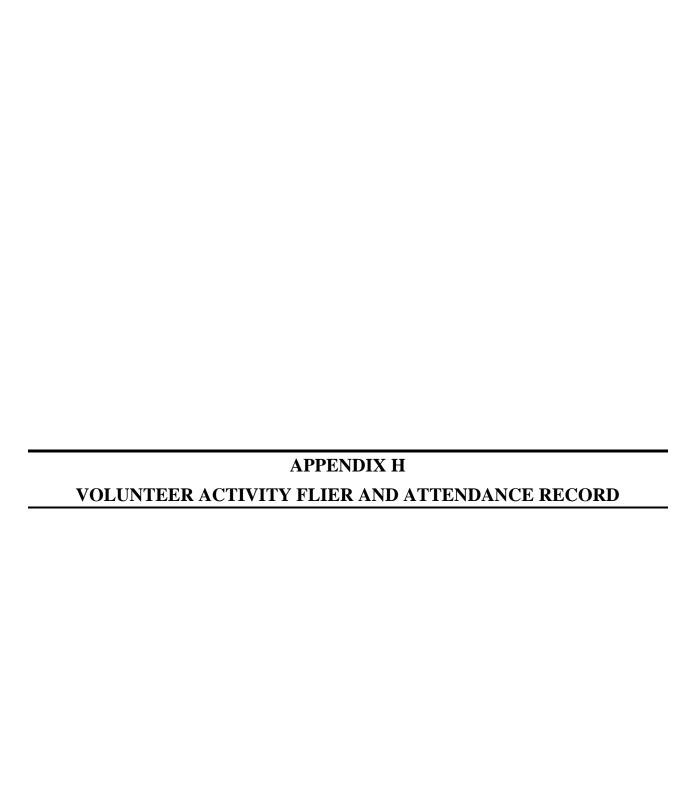
A. Spill Information (to be provided by HAR-OCT Staff)	
Recorded $\frac{3/8/10}{}$ Tir	me/Date Environmental Section Notified
Person reporting \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Phone 72076
Person reporting Vmils  Location of Spill P 13  T	ime of Spill 1.43 p. Date of Spill 3/7/10
Substance spilled Petroleum Product Amount Sp	pilled Duration of Spill
Media into which the release/spill occurred:	
AirGroundConcrete/AsphaltStreamOcean	
Responsible Party Unknown	
Cause of spill	William I
Description of clean-up actions	
Notifications Made: WSCG DOL	
Additional information	
,	
B. Environmental Section Information	
>CERCLA RQ (40CFR 117, 302) (Y/N)	***
HEERO Notification (808) 586-4249/after hrs 247-2191	HAR-EE staff
Notified at; on/_/	Report number
Written Notification to be submitted:(Y/N) by/_/	
· · · · · · · · · · · · · · · · · · ·	
LEPC Notification (808) 523-4121 (Honolulu)/Fax 524-3439  Notified at: on //  NRC Notification (800-424-8802)  Notified at : on / /	HAR-EE staff Person notified HAR-EE staff Report number

# HAR-EE Spill Documentation Form

A. Spill Information (to be provided by HAR-OCT Staff)	
Recorded 3/8/10 Tin	me/Date Environmental Section Notified 11 2m
Person reporting Nikhi (USCG 7.0, Ford)	Phone 72071
Person reporting Nikhi (USCG 7.0, Fr.d)  Location of Spill Pb (Fills of Olyde) T	Time of Spill 7:39 Date of Spill 2 (18/10
Substance spilled Petro Probet Amount Sp	pilled Shem Duration of Spill
Media into which the release/spill occurred:	
AirGroundConcrete/AsphaltStreamOcean	Other:
Responsible Party Unknown - Suggest of 12m	of from Vin
Cause of spill	
Description of clean-up actions	
Notifications Made: USCG (republik)	
Additional information	
B. Environmental Section Information	
>CERCLA RQ (40CFR 117, 302) (Y/N)	
HEERO Notification (808) 586-4249/after hrs 247-2191	HAR-EE staff
Notified at on/	Report number
Written Notification to be submitted:(Y/N) by//	
LEPC Notification (808) 523-4121 (Honolulu)/Fax 524-3439	HAR-EE staff
Notified at: on //	Person notified
NRC Notification (800-424-8802)	HAR-EE staff
Notified at : on / /	Papart number

# **HAR-EE** Spill Documentation Form

A. Spill Information (to be provided by HAR-OCT Staff)		
Recorded 1/30/10 Tim	ne/Date Environmental Section Notified (2:09 P	ŋ
Recorded 1/30/10 Tim  Person reporting Nilcki	Phone 72076	
Location of Spill Fix 6	me of Spill Date of Spill (/3 p/t b	
Substance spilled Petrolum Amount Sp	illed NA Duration of Spill NA	
Media into which the release/spill occurred:		
AirGroundConcrete/AsphaltStreamOcean C	Other:	
Responsible Party unknown  Cause of spill frm Storm drnh		
Description of clean-up actions CIC CMM 6	dem up	
	The first of this	
Notifications Made:		
Additional information		
B. Environmental Section Information		
>CERCLA RQ (40CFR 117, 302) (Y/N)		
HEERO Notification (808) 586-4249/after hrs 247-2191	HAR-EE staff	
Notified at: on //	Report number	
Written Notification to be submitted:(Y/N) by//		
LEPC Notification (808) 523-4121 (Honolulu)/Fax 524-3439	HAR-EE staff	
Notified at:on/	Person notified	
NRC Notification (800-424-8802)	HAR-EE staff	
Notified at : on / /	Report number	









# **Get The Drift & Bag It!**

Also Celebrating the 25<sup>th</sup> Annual International Coastal Cleanup

September 25, 2010

WIKOLIANA EDUCATIONAL EXCURSIONS (Site Coordinator-Honolulu Harbor)

**What:** Get The Drift & Bag It and also the 25<sup>th</sup> Anniversary of the International Coastal Cleanup

When: Saturday, September 25, 2010

Where: Honolulu Harbor, Pier 7 Wikoliana Educational Excursions

Contact: Captain Jeff Lansdown (808)230-0940

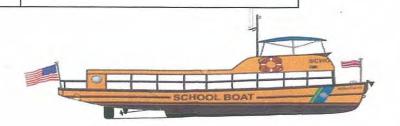
**Site Coordinator:** Wikoliana Educational Excursions (808)230-0940

**Online:** www.wikoliana.com www.getthedriftandbagit.com www.coastalcleanup.org

### The Mission of the Wikoliana Harbor Stewardship Program:

To remove debris from Honolulu harbors, expand public awareness and education of the value of Honolulu's marine and maritime environment, and generate enthusiasm for future endeavors with schools and community organizations

To volunteer or receive information about the Wikoliana Harbor Stewardship or the Wikoliana Education Excursions Programs, please call (808) 230-0940, or email: wikoliana@gmail.com





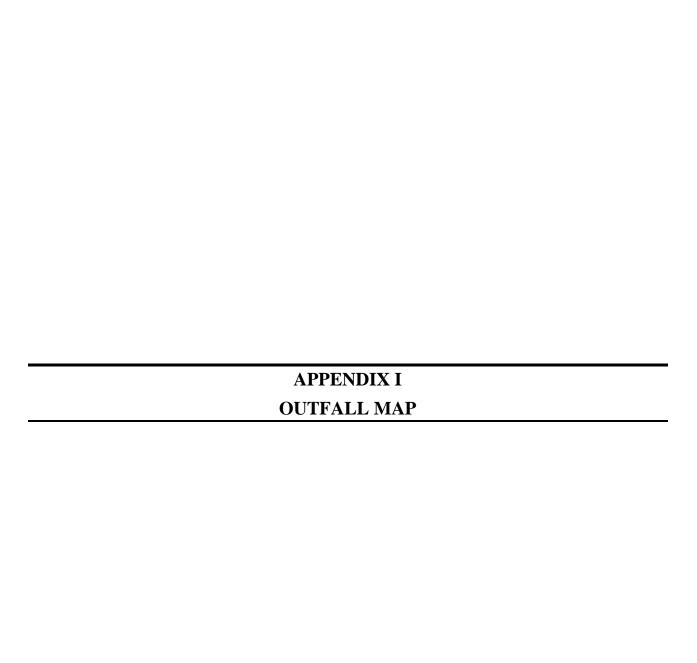
# Wikoliana Educational Excursions Volunteer Hours Log

Name	Date	Where are you from? (ethnicity or visiting from.)	HOURS
Wanterstlen	9/25/10	Belgiun	
TAINI LADYDIANG	9/25/10	Cameroun	
TATIANA ZASHEVA	9/25/10	Russia	
Shohedrov Igar	9/25/10	Russia	
Galukhina Diana	1		
Kurbanov, Bortyr			
Saali, Eetu	1		
Strayan, Nayirie	9/25/10	LEBANON	
Chandra Bragger	9/25/10	Colorado usa.	
Yahya Gilany		Egypt	
Helmi Merkhi			
Siyuan Shen	9/25/10	China	
Sheikh Rahman	9/25/10	Bangladesh	
sadman Mondalib	9125/10	BANGLADESH	

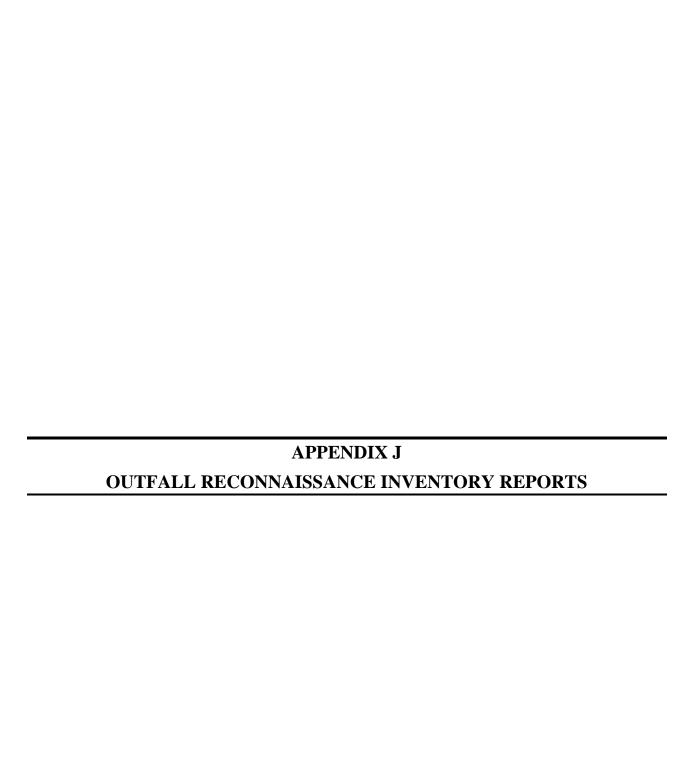


# Wikoliana Educational Excursions Volunteer Hours Log

Name	Date	Activity	HOURS
Myanjie Wudie Inkar Yerzhanova	abstro	Sierra Leone	
	-1 1	Kazakhstan	
Joseph Nielsen	9/25/10		
Rayoo Nielsen	"	Makaha - Cleaning	
Añaza Nielsen	~		
Ari Davis	9/25/10	Ckanyp	
			-







## OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Bac	ckgrov	ınd Data								
Subwatershed:				•	Outfal	Outfall ID: \$1001				
Today's date:					Time	Time (Military): 8.00				
Investigators:			•		Form	Form completed by: Richard Min				
Temperature (°F)	'):		Rainf	fall (in.): Last 24 hours	s: 0 Last 48	3 hours: 0		<del></del>		
Latitutde: 2358	3837.854		Longitude:		GPS U	Jnit:		GPS LMK #	#:	
Camera: Nikon-					Photo	#s:	1,12			
Land Use in Dra	inage Ar	rea (Check all that a	apply):		• • • • • • • • • • • • • • • • • • • •			<u> </u>	-	
/ Industrial					□Ор	en Space				
Ultra-Urban F	Resident	rial			☐ Ins	stitutional				
Suburban Res	sidential				Other:					
Commercial					Knowi	n Industries:		:	· · · · · · · · · · · · · · · · · · ·	
	2 RAB	35, 10RA		innows, vegetation along	g canal is spar	se, trash on s	ide of canal, paper	and plastic.		
LOCATIO	N	MATER	IAL	. SI	НАРЕ	1.	DIMENSIC	ONS (IN.)	SUBMERGED	
			☑ CMP	☐ Circular	Single ☐ Double	_	Diameter/Dimen	isions:	In Water: No Partially	
Closed Pipe		☐ Steel		☐ Box	☐ Triple				☐ Fully	
		Other:		☐ Other:	Other:				With Sediment: No Partially Fully	
☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:			☐ Trapezoid ☐ Parabolic ☐ Other:		Depth:  Top Width:  Bottom Width:					
☐ In-Stream		(applicable when	n collecting	samples)						
Flow Present?		☐ Yes	<b>∑</b> No		Skip to Section	n 5	,	<u>,</u>		
Flow Description (If present)		☐ Trickle [					,			
Section 3: Qua	ıntitati	ive Characteriz	zation							
	`			FIELD DATA FOR I	FLOWING	OUTFALLS				
P/	ARAME	TER		RESULT	,	τ	UNIT	. E	QUIPMENT	
□Flow#1		Volume		_		Liter		)		
		Time to fill					Sec			
		Flow depth					In			
□n1=#2		Flow width	0, "			Ţ	Ft, In			
☐Flow#2	N	Measured length	<u>0</u> ' "			1	Ft, In		·	
	·	Time of travel					Sec	*	<del></del>	
Т	Temperat	ture				· · · · ·	°F			
	pН					pI	I Units	Te	est strip/Probe	
	Ammoni	ıia					ppm		Test strin	

# Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?  Yes	ndicators for Flo	wing Outfalls	cs \square\text{No}  \text{(if No, Skip to Section 5)}			
INDICATOR	CHECK if Present		DESCRIPTION	REI	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	1 – Faint	2 Easily detected	3 – Noticeable from a distance
Color		☐ Clear	□ Brown         □ Gray         □ Yellow           □ Orange         □ Red         □ Other:	1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbidity			See severity	1 - Slight cloudiness	2-Cloudy	3-Opaque
Floatables -Does Not Include Trash!!		Sewage (	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	nence due to low tide					
Section 5: Physical Indicators for Both Flowing and Non-Flowin Are physical indicators that are not related to flow present?	ndicators for Bot is that are not relai	th Flowing : ted to flow p	and Non-Flowing Outfalls present?	on 6)		
INDICATOR	CHECK if Present	resent	DESCRIPTION		COMMENTS	
Outfall Damage			Spalling, Cracking or Chipping   Peeling Paint   Corrosion			
Deposits/Stains			Oily   Flow Line   Paint   Other:	sediment and algae	nd algae	
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:			
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	utfall Characteri	zation		·		
Unlikely	Potential (prese	suce of two	Dotential (presence of two or more indicators) Suspect (one or more indicators with a severity of 3)	licators with a severity o	f3) 🔲 Obvious	
Section 7: Any Non-l	(Ilicit Discharge (	Concerns (e	Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?			

# OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Ba	ckgrou	ınd Data							
Subwatershed:					Outfall ID:	P4-94	-HE	LD	
Today's date:					Time (Military	·):			
Investigators:	12	CHARD 1	n . N		Form complete	ed by:			
Temperature (°F		· • • • • • • • • • • • • • • • • • • •	Rainf	fall (in.): Last 24 hours:	0 Last 48 hours:	)			
Latitutde: 2358	3837.854		Longitude:		GPS Unit:		· GPS LMK #	<del>/</del> :	
Camera: Nikon-		300			Photo #s:				
Land Use in Dra	inage Ai	rea (Check all that	apply):					-	
X Industrial					Open Space	•			
Ultra-Urban	Resident	tial			☐ Institutiona	1			
Suburban Re	sidential				Other:		<del></del>		
Commercial					Known Industr	ies:		·	
				nnows, vegetation along	anal is sparse, trash	on side of canal, paper	and plastic.		
AAI	NA	C RAB	5						
Section 2: Out	tfall De	escription			•				
LOCATIO		MATER	IIAL .	SH	APE	DIMENSIO	ONS (IN.)	SUBMERGED	
		RCP	□ СМР	☐ Circular	X Single	Diameter/Dimen	sions:	In Water:	
		□PVC	☐ HDPE	☐ Eliptical	☐ Double			☐ No ☑ Partially	
I/		☐ Steel		<b>⊠</b> Box	☐ Triple	10'×5'		Fully	
		Other: Lon	WREE	Other:	Other:	?		With Sediment:	
						·		Partially Fully	
☐ Concrete						<del></del> -			
		☐ Earthen		☐ Trapezoid		Depth:			
Dpen drainag	ge	∏ rip-rap		Parabolic		Top Width:	Top Width:		
		Other:		Other:		Bottom Width: _			
☐ In-Stream		(applicable whe	n collecting	samples)					
Flow Present?		☐ Yes	☐ No	If No, Ski	p to Section 5	CAN NOT	TELL	, SUBMERE	
Flow Description (If present)		☐ Trickle	☐ Moderate	Substantial					
Section 3: Qua	ntitati	ive Characteri	ization						
	-	1 4		FIELD DATA FOR F	LOWING OUTFA	LLS		· · · · · · · · · · · · · · · · · · ·	
Р	ARAME	TER		RESULT		UNIT	E	QUIPMENT	
□Flow#I Volume					Liter		•		
		Time to fill				Sec		<u>:</u>	
	<u> </u>	Flow depth						· · ·	
□Flow #2	<u> </u>	Flow width	0, "			Ft, In			
	<del></del>	Measured length Time of travel	· ō, "		<u> </u>	Ft, In			
	remperat					Sec			
, <u></u> , ,	pH	turo			-	°F pH Units	<u>т.</u>	st strip/Probe	
	Ammon		<del>   </del>					<del>-</del>	
	Ammon	na -	1			ppm		Test strip	

		Y INDEX (1-3)	coted	sible in 3 – Clearly visible in outfall flow	3 – Opaque	ications 3 - Some; origin clear g., (e.g., obvious oil sheen, suds, or floating sanitary materials)			COMMENTS	700.						Obvious	
		RELATIVE SEVERITY INDEX (1-3)	A2 – Easily detected	2 – Clearly visible in sample bottle	2 - Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)		,	0		sediment and algae		:				
y Form	-	RE	1 - Faint	☐ I – Faint colors in sample bottle	☐ 1 — Slight cloudiness	□ 1 – Few/slight; origin not obvious		n 6)			sediment					cators with a severity	
Outfall Reconnaissance Inventory Form	falls Only Yes $\square$ No (If No., Skip to Section 5)	DESCRIPTION	Rancjofsour Preudleum/gas	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:		Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? $\square$ Yes $\square$ No $(fNo, Skip$ to Section 6)	DESCRIPTION	Spalling, Cracking or Chipping   Peeling Paint   Corrosion	Oily Tlow Line Paint Other:	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	☐ Brown ☐ Orange ☐ Green ☐ Other:		o or more indicators) A Suspect (one or more indicators with a severity of 3)	
A SAMON A MA	tion, Physical Indicators for Flowing Ou.	CHECK if Present	S Scwage	Clear		□ Sewa <sub>i</sub>	ce due to low tide	Section 5: Physical Indicators for Both Flowing and Nov Are physical indicators that are not related to flow present?	CHECK if Present						fall Characterization	Potential (presence of two or more indicators)	
AME ON	Section of Physical Ind Are Any Physical Indicato	INDICATOR	Statement of the statem	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Inc Are physical indicators	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	☐ Unlikely ☐	

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

# OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Bac	ckgrou	nd Data							
Subwatershed:					Outfall ID:	14	-023	HZ	40
Today's date:	60	10-10			Time (Mili	tary):			
Investigators:	K 14	10-10 4000 M			Form comp	oleted by:			
Temperature (°F)				fall (in.): Last 24 hours: (	0 Last 48 hou	rs: 0			
Latitutde: 2358	3837.854		Longitude:		GPS Unit:			GPS LMK #	e
Camera: Nikon-		<del> </del>			Photo #s:				
Land Use in Drai	inage Are	ea (Check all that	t apply);						
🖄 Industrial					Open S	pace			
Ultra-Urban F	Residenti	ial			☐ Instituti	onal			
☐ Suburban Res	sidential				Other:				
A Commercial	•	ı			Known Ind	ustries:			
Notes (e.g, origi			rge crabs, Mi	nnows, vegetation along ca	anal is sparse, t	rash on side of	f canal, paper a	and plastic.	
LOCATIO		MATER	RIAL	SH.	APE		DIMENSIO	NS (IN.)	SUBMERGED
<del></del>		RCP	□СМР	☐ Circular	Single	Dia	ameter/Dimens		In Water:
		□PVC	☐ HDPE	☐ Eliptical	Double				□ No ⊠ Partially
Closed Pipe		☐ Steel			☐ Triple		8' x 6	<del></del>	Fully
		Other: CO	NURGE		Other:	i			With Sediment:
			7=0	Ciner.		_			Partially  Fully
		Concrete						<del></del>	
		Earthen		☐ Trapezoid		Dep	pth:		
Open drainage	;e	□ гір-гар		☐ Parabolic		Тор	p Width:	_	
		☐ Other:				Bot	ttom Width: _	<del></del>	
☐ In-Stream		(applicable who	on collecting	comples)					
Flow Present?		Yes	en conecting s		o to Section 5				
Flow Description					10 Section 5		•		· · · · · · · · · · · · · · · · · · ·
(If present)		Trickle	☐ Moderate	Substantial					· .
Section 3: Quar	ntitativ	ve Character	ization						
			t	FIELD DATA FOR FL	OWING OUT	FALLS			
P/	ARAME	TER		RESULT		UNIT		EC	UIPMENT
□Flow#1		Volume				Liter			
LIOM #1		Time to fill				Sec			
		Flow depth				In			
□Flow #2		Flow width	0, "			Ft, In			
	М	leasured length	0, "			Ft, In			
	T	Γime of travel				Sec			
T	l'emperatu	ure				°F			
·	pН	<del></del>				pH Unit	ts	Tes	st strip/Probe
	Ammoni	ia				maa			Test strip

# Outfall Reconnaissance Inventory Form

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

Potential (presence of two or more indicators)

N Unlikely

Obvious

☐ Suspect (one or more indicators with a severity of 3)

# OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Bad	ckgrou	nd Data										
Subwatershed:					Outfal	II ID;	7 6	BP5-01				
Today's date:	6-1	10-10			Time (	(Military):		<del></del>				
Investigators:	R 10	CHRO MI	w		Form o	completed by:						
Temperature (°P	"):	2	Rainfa	fall (in.): Last 24 hours: 0	) Last 48	8 hours: 0						
Latitutde: <del>2358</del>	837.854	21-18-14 Long	zitude:	157-51-19	GPS U	GPS Unit: GPS LMK #:						
Camera: Nikon-		·			Photo	#s:						
Land Use in Dra	inage Ar	rea (Check all that apply	y):					<del></del>	•			
🔀 Industrial					□Ор	Open Space						
Ultra-Urban	Resident	ial				☐ Institutional						
☐ Suburban Re	sidential					·						
∑ Commercial	_				Knowi	n Industries:	PARKIM	16 LOT	<del></del>			
Notes (e.g, orig	in of out	fall, if known): large cr	abs, Mir	nnows, vegetation along ca								
Section 2: Out	fall De	escription					<del></del>	, <u>, , , , , , , , , , , , , , , , , , </u>				
LOCATION		MATERIAL		SHA		DIME	NSIONS (IN.)	SUBMERGED				
		□ RCP □ CMP		·	Single	;	Diameter/D		In Water:			
		□ PVC □ F	HDPE	☐ Eliptical	☐ Doubl	e	10"	<i>'</i> ———	⊠ No □ Partially			
Closed Pipe		☐ Steel	□ Box [		☐ Triple	Гriple			Fully			
	•	Other: CONC	REE	<b></b> □ Other: □		:			With Sediment:			
			ļ						☐ Partially ☐ Fully			
		Concrete				†						
_		☐ Earthen	ľ	Trapezoid		Depth:						
Open drainag	e	∏ rip-rap	ļ	Parabolic			Top Width:					
		☐ Other:	☐ Other:	Other:			dth:					
☐ In-Stream		(applicable when col	llecting	samples)								
Flow Present?		<u> </u>	^\\\No	If No, Skip	to Section	n 5		· · · · · · · · · · · · · · · · · · ·				
Flow Description		☐ Trickle ☐ Moderate ☐ Substantial										
(If present)					<del></del>		<del></del>					
Section 3: Qua	ntitati	ve Characterizati	on									
		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	FIELD DATA FOR FLO	OWING	· · · · ·						
P.	ARAME			RESULT		UNIT		EC	QUIPMENT			
□Flow#1 —	ļ	Volume				Liter						
		Time to fill				Sec						
☐Flow #2		Flow depth Flow width	0, "			In Ft, In						
	N.	Measured length	ō, "			Ft, In		<del></del> -				
		Time of travel					Sec	<del></del>				
Temperatur							°F	_				
рН						pH Units		Te:	Test strip/Probe			
Ammonia							pm		Test strip			

# Outfall Reconnaissance Inventory Form

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?

	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	dne	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)																				
(1-3)	3 – Notices	3 - Clearly vis	3-Opaque	(e.g., sheen, sanital			S																	
RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	2 – Clearly visible in sample bottle	2 - Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		gae					□ Obvious										
RELATI		- "						i	sediment and algae					everity of 3)										
	1 – Faint	1 - Faint colors in sample bottle	☐ 1 – Slight cloudiness	1 – Few/slight; origin not obvious		ion 6)		<u> </u>	S					dicators with a se										
	as	☐ Yellow ☐Other:				(If No, Skip to Section 6)	DESCRIPTION	1g Peeling Paint	nt 🔲 Other:	:	☐ Floatables ☐ Oil Sheen ae ☐ Other:	☐ Green ☐ Other:		Suspect (one or more indicators with a severity of 3)										
DESCRIPTION	our 🔲 Petroleum/gas	☐ Gray	See severity	) Suds		ving Outfalls ] Yes ⊠ No	DE	Spalling, Cracking or Chipping Corrosion	☐ Flow Line ☐ Paint	☐ Inhibited	☐ Colors ☐ Excessive Algae	Orange												
	☐ Rancid/sour ☐ Other:	☐ Brown		Sewage (Toilet Paper, etc.)		nd Non-Flor resent?		Spalling, C	□ oily □	☐ Excessive	☐ Odors ☐ Suds	☐ Brown		r more indica										
	Sewage	Clear Green											Sewage (Toilet Paper Petroleum (oil sheen)		th Flowing a ted to flow p	resent						zation	ence of two o	i
CHECK if Present	□.				ce due to low tide	licators for Bot that are not rela	CHECK if Present						fall Characteri	Potential (presence of two or more indicators)										
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	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?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	☑ Unlikely □										

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

Section 1: Bac	kgrou	nd Data							
Subwatershed:					Outfall	ID:	5-02		
Today's date:	b	-10-10 CHARD N			Time (N	Military):	830		
Investigators:	76,	CHARD A	1/1		Form co	ompleted by:			77.0.00 174
Temperature (°F)	):			fall (in.): Last 24 hours:	0 Last 48 l	nours: 0			
Latitutde: 2358	8 <u>37 8</u> 54	21-18- Lo	ngitude:	157-51-52	GPS Un	ıit:		GPS LMK #	
Camera: Nikon-					Photo #	s:	10		
Land Use in Drai	inage Ar	rea (Check all that app	ply):					_	
<b>⊠</b> Industrial					Ope	n Space			
Ultra-Urban R	Resident	ial			☐ Insti	tutional			
Suburban Res	sidential				Other: _				<del></del>
Commercial		•			Known	Industries: _	PARKIN	6 Lo	<del></del>
Notes (e.g, origi	····		crabs, Mii	innows, vegetation along c	anal is spars	e, trash on si	ide of canal, paper a	and plastic.	
LOCATION		MATERIA	L	SH	APE		DIMENSIO	NS (IN.)	SUBMERGED
		□ RCP □	СМР	Circular	Single		Diameter/Dimens	sions:	In Water:
		□ PVC □	HDPE	☐ Eliptical	Double		10"?		No ☐ Partially
Closed Pipe		☐ Steel		☐ Box	Triple				☐ Fully
		Other LOWCI	RETE	☐ Other:	Other:				With Sediment:
		7	<i>پر</i> اپ						Partially Fully
		Concrete							
		Earthen		☐ Trapezoid			Depth:		
Open drainage	e	□ rip-rap		Parabolic			Top Width:	_	
				☐ Other:			Bottom Width: _	<del></del>	
TT T. 04		Other:	33	<u> </u>				<u> </u>	
In-Stream		(applicable when c				_	·····	:	
Flow Present?		☐ Yes	No	IJ No, Skij	p to Section	5	, , , , , , , , , , , , , , , , , , ,		
Flow Description (If present)		☐ Trickle ☐	Moderate	≥ ☐ Substantial					•
ection 3: Qua	ntitati	ve Characteriza	tion						
		· · · · · · · · · · · · · · · · · · ·		FIELD DATA FOR FL	LOWING O	UTFALLS			
P#	ARAME	TER	T	RESULT	* · · · · · · · · · · · · · · · · · · ·	<u>U</u>	INIT	EQ	UIPMENT
□Flow#1		Volume				I	Liter		•
TLIOM 11		Time to fill					Sec		
		Flow depth					In		
□Flow #2	:	Flow width	<u>0</u> , "			F	t, In		
]	M	Measured length	0, "			F	t, In		
		Time of travel					Sec	7,00	
T	emperat	ure	<del> </del>				°F	-	
	pН	<del></del>	<del> </del>			pН	Units	Tes	t strip/Probe
,	Ammon	ia				ŗ	ppm	-	Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?

((1-3)	3 – Noticeable from a distance	3 - Clearly visible in outfall flow	3 - Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)			LS								
RELATIVE SEVERITY INDEX (1-3)	2 – Easily detected	2 – Clearly visible in sample bottle	2-Cloudy	2 - Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		d algae					(3) Obvious	
RELA	☐ I – Faint	1 - Faint colors in sample bottle	☐ 1 – Slight cloudiness	☐ 1 — Few/slight; origin not obvious		ion 6)			sediment and algae					Suspect (one or more indicators with a severity of 3)	
	<i>l</i> /gas	☐ Yellow ☐Other:				(If No, Skip to Section 6)	DESCRIPTION	ping   Peeling Paint	aint Other:		☐ Floatables ☐ Oil Sheen Igae ☐ Other:	Green Other:		Suspect (one or more in	
DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Orange ☐ Red	See severity	<ul><li>Sewage (Toilet Paper, etc.) ☐ Suds</li><li>Petroleum (oil sheen) ☐ Other:</li></ul>		Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	a	Spalling, Cracking or Chipping Corrosion	Oily   Flow Line   Paint	☐ Excessive ☐ Inhibited	Odors Colors Colors Suds Excessive Algae	☐ Brown ☐ Orange		Potential (presence of two or more indicators)	
<b>.</b>	Sewage	☐ Clear		Sewage (Toilet Paper	tide	r Both Flowing a t related to flow p	CHECK if Present						cterization	presence of two c	
CHECK if Present					nfluence due to low	l Indicators fo ators that are no	CHEC	· · · · · · · · · · · · · · · · · · ·		on		th	Outfall Chara	☐ Potential (	
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	🖄 Unlikely	

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

Section 1: Bac	ckgrou	nd Data							
Subwatershed:					Outfal	11D: P5	-03		
Today's date:	6-1	10-1D			Time (	(Military):	4: 30		
Investigators:	_	V4A1-0	MIN		Form o	completed by:			
Temperature (°F	'): 		Rainf	fall (in.): Last 24 hours	s: 0 Last 48	hours: 0			
Latitutde: -2358	383 <u>7.85</u> 4	21-18-	Longitude:	187-51-53	GPS U	Jnit:		GPS LMK #	!:
Camera: Nikon-					Photo	#s:			
Land Use in Dra	inage Ar	rea (Check all that	apply):						
☑ Industrial					☐ Op	en Space			
Ultra-Urban I	Resident	ial			☐ Ins	titutional			
Suburban Re	sidential				Other:				<u> </u>
1∕© Commercial	,				Knowr	ı Industries: _	PARKIN	L C	07
Notes (e.g, orig			rge crabs, Min	nnows, vegetation along	g canal is spar	se, trash on si	de of canal, pape	r and plastic.	
LOCATIO	N	MATER	RIAL	Si	НАРЕ		DIMENSI	ONS (IN.)	SUBMERGED
		☐ RCP	□СМР	Circular	Single		Diameter/Dime	nsions:	In Water:
		□ PVC	HDPE	☐ Eliptical	Double	e	14"	·	No ☐ Partially ☐ Fully
Closed Pipe		<b>▼</b> Steel		Box	☐ Triple				With Sediment:
		Other:	<del></del> ,	☐ Other:	☐ Other:				With Sediment:  **D No    Partially   Fully
☐ Open drainag	re	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:			Depth: Top Width: Bottom Width:		
☐ In-Stream		(applicable who	n collecting	samples)					   विद्यासम्बद्धान्यक्षात्राक्षात्रकारम्थाकारम्थाः
Flow Present?		X Yes	□No	If No, Si	kip to Section	<i>i</i> 5			
Flow Description (If present)		Trickle	☐ Moderate	Substantial					
Section 3: Qua	ntitati	ve Character	ization	,					
-			-	FIELD DATA FOR I	FLOWING	<u> </u>		<u> </u>	
P.	ARAME			RESULT	A STATE OF	U	NIT	EC	QUIPMENT
□Flow #1		Volume					Liter		
	<u> </u>	Time to fill		,		·	Sec	<del></del>	
		Flow depth	0, "	<u></u>			In	·	
□Flow #2	λ.	Flow width deasured length	<u>0</u> ' "				t, In		
		Time of travel	- U				Sec		
	L Femperat						sec °F		iga — min
	рН		-				Units	Та	st strip/Probe
	Ammon	ia .				pri	Canto		Togs strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?   Yes	ndicators for Flor tors Present in the fl	wing Outfalk low? □ Yes	s Only X No (If No, Stip to Section 5)			
INDICATOR	CHECK if Present		DESCR	REL	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	1 – Faint	2 - Easily detected	3 Noticeable from a distance
Color		☐ Clear	□ Brown □ Gray □ Yellow □ Corange □ Red □ □ Other:	☐ 1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	1 – Slight cloudiness	2-Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper	<ul> <li>Sewage (Toilet Paper, etc.) ☐ Suds</li> <li>☐ Petroleum (oil sheen) ☐ Other:</li> </ul>	☐ 1 — Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	ence due to low tide					
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	ndicators for Botl s that are not relat	h Flowing an ed to flow pre	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls  Are physical indicators that are not related to flow present?	ion 6)		
INDICATOR	CHECK if Present	resent	DESCRIPTION		COMMENTS	S
Outfall Damage			Spalling, Cracking or Chipping Peeling Paint Corrosion			
Deposits/Stains			□ Oily □ Flow Line □ Paint □ Other:	sediment and algae	nd algae	
Abnormal Vegetation		1	☐ Excessive ☐ Inhibited			
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:			
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	ıtfall Characteriz	zation				
√ Unlikely	Potential (presence of two or more indicators)	nce of two or	more indicators) Suspect (one or more indicators with a severity of 3)	dicators with a severity o	f3) 🗌 Obvious	

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

Subwatershed:					Outfall ID	Had	, 3RD	och y STE	ALL	15	AT.
Today's date:	6-	10-10			Time (Mil	itary):	<b>-</b>	~ <del>~ ~ ~ ~</del>			
Investigators:	K,	CHAPO	$N_{i}u$	/	Form com	pleted by:					
Temperature (°F):	:		Rainf	all (in.): Last 24 hours: (	Last 48 hou	urs: 0					
Latitutde: 23588	37.854		Longitude:		GPS Unit:		-	GPS LMK #	:		
Camera: Nikon-		3/7	, 		Photo #s:						
Land Use in Drair	nage Are	a (Check all t	hat apply):								
🗖 Industrial					Open S	Брасе					
Ultra-Urban R	esidentia	al			☐ Institut	ional					
☐ Suburban Resi	dential				Other:						
Commercial	,			·		dustries: No	AD WA	/			
· · · · · · · · · · · · · · · · · · ·	of outf	all, if known):	large crabs, Mir	nnows, vegetation along ca						<del></del>	
		,	,		, ·		, p-p+-	ma prabile.			
									<del></del> .		
Section 2: Outf		- · • · · ·		T		•			<del></del>		
LOCATION	l	- :	ERIAL	SHA		· · · · · · · · · · · · · · · · · · ·	DIMENSIO	- · ·	SU	BMERGI	ĒD_
		RCP	☐ CMP	A Circular	<b>⊠</b> Single		neter/Dimens	ions:	In Wate	er: ] No	
		☐ PVC	HDPE	☐ Eliptical	Double		22"	<del></del>	[	Partially Fully	/
Closed Pipe		Steel		☐ Box	☐ Triple					-	
	•	Other:	ONCLOTE	☐ Other:	Other:				1≥	diment: No	
										] Partially ] Fully	′
		Concrete							100		
		Earthen		☐ Trapezoid		Dep	th:				
Open drainage		☐ rip-rap		☐ Parabolic		Тор	Width:	_			
				☐ Other:		Bott	om Width:				
☐ In-Stream		Other:		1>							
Flow Present?		Yes	when collecting:		to Section 5	· ·		•			
Flow Description	<u> </u>		ĮΝο	IJ IVO, SKIP	to Section 5	<del></del>	· · · · · · · · · · · · · · · · · · ·	<del>- ·</del>			
(If present)		☐ Trickle	☐ Moderate	☐ Substantial							
Section 3: Quan	. tita tiv	ia Charact	avication							•	******
section 3. Quan	lllally	e Charact	erization	FIELD DATA FOR FL	OWING OU	TEALLS	<u> </u>		:		
PA	RAMET	TER		RESULT	- : -	UNIT		EC	UIPME	NT	
<u>"</u>		Volume		1,0001.	· · · - · · · · · · ·	Liter			ZÓ1E I-IE		
□Flow#1		Time to fill		·		Sec					
	-	Flow depth		WF/II		In					
<u> </u>		Flow width	0, "			Ft, In			•		
Flow #2	М	easured lengtl	<del>-</del>			Ft, In		<del></del>			
		ime of travel		=		Sec				<del></del> -	
Te	emperatu	ıre			<u> </u>	°F					
- · · · · · · · · · · · · · · · · · · ·	pН	· · · · · ·		,	<u> </u>	pH Units		Tes	st strip/Pro	obe	
	Ammonia	a				ppm		174	Test strip		

Section 4: Physical Indicators Present in the flow? ☐ Yes         Chlowing Outfalls Only           Arc Any Physical Indicators Present in the flow? ☐ Yes         Check if Present         Present         DE           CHECK if Present         ☐ Sewage         ☐ Rancid/sour           Color         ☐ Clear         ☐ Other:           Floatables         ☐ Clear         ☐ Otange           Floatables         ☐ Clear         ☐ Other:           Abotes: Not Include         ☐ Detroleum (oil sheen)           Abric physical indicators that are not related to flow present?         ☐ Spalling, Cra           Outfall Damage         ☐ Check if Present         ☐ Otily           Outfall Damage         ☐ Doily         ☐ Corosion           Deposits/Stains         ☐ Doily         ☐ Corosion           Poor pool quality         ☐ Doily         ☐ Doily           Pipe benthic growth         ☐ December of the Corosion<	icators for Flowing O CHECK if Present in the flow? CHECK if Present  CHECK if Check Check ide Check ide Check if Present	wing Outfalls Only    Ow?   Yes   Earner   Sewage   Char   Clear   Brov   Clear   Cran   Cran   Clear   Cran   Clear   Cran   Clear   Cran   Clear   Clear   Clear   Clear   Corresent   Clear   Corresent   Clear   Cl	ing Outfalls Only  W?  \Begin{array}{c c c c c c c c c c c c c c c c c c c	SS	(If No, 1) Cher:	Skip to Section 6)    Coll Sheen   Colons in sample bottle   Colons in	RELATIVE  Ors in sampli and algae  sediment and algae	RELATIVE SEVERITY INDEX (1-3)    2 - Easily detected	1-3    3 - Noticeable from a distance   3 - Clearly visible in outfall flow   3 - Opaque   3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 6: Overall Outfall Characterization	all Characteriz	zation							
🛚 K Unlikely	Potential (presence of two or more indicators)	nce of two o	r more indicato		Suspect (one or n	Suspect (one or more indicators with a severity of 3)	severity of	3) 🗌 Obvious	
Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?	cit Discharge C	Joncerns (e.§	g., trash or ne	eded infrast	ructure repairs)?				

Section 1: Bac	kgrou	nd Data						
Subwatershed:					Outfall ID:	P7-03		
Today's date:	6-	10-10			Time (Military)	<del></del>		
Investigators:					Form completed	i by:		
Temperature (°F)	):		Rainf	fall (in.): Last 24 hours: (	Last 48 hours: 0			
Latitutde: 2358	837.854		Longitude:		GPS Unit:		GPS LMK #	#: 
Camera: Nikon-					Photo #s:			
Land Use in Drai	inage Ar	ea (Check all tha	ıt apply):				_	
🗖 Industrial					Open Space			
Ultra-Urban F	Residenti	ial			☐ Institutional			,
Suburban Res	idential				Other:			
Commercial		1				es:		
Notes (e.g, origi			arge crabs, Mir	mows, vegetation along ca	anal is sparse, trash	on side of canal, paper	and plastic.	
LOCATIO		MATE	RIAL	SHA	\PE	DIMENSIO	ONS (IN.)	SUBMERGED
		RCP	□СМР	☐ Circular	Single	Diameter/Dimen	sions:	In Water:
		☐ PVC	☐ HDPE	☐ Eliptical	☐ Double			☐ Partially ☐ Fully
Closed Pipe		☐ Steel		□Box	☐ Triple			With Sediment:
		A Other: 40/1	UNECE	Other:	Other:		t	With Sediment:  No Partially Fully
		☐ Concrete						
		☐ Earthen		☐ Trapezoid		Depth:		
Open drainage	e	□ гір-гар		☐ Parabolic	•	Top Width:		
		Other:		☐ Other:		Bottom Width: _	<del></del>	
☐ In-Stream		(applicable wh	en collecting	samples)	<del> </del>			
Flow Present?		☐ Yes	<b>V</b> ∑ No		to Section 5	<del></del>		· · · · · · · · · · · · · · · · · · ·
Flow Description (If present)		☐ Trickle	☐ Moderate					
Section 3: Quar	ntitati	ve Charactei	rization		, · · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
obion or Qua		· · · · · · · · · · · · · · · · · · ·	ILLICIO	FIELD DATA FOR FL	OWING OUTFAL	LS		
P/	RAME	TER		· · · · · · · · · · · · · · · · · · ·		UNIT	E(	QUIPMENT
		Volume		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	Liter		
□Flow#1		Time to fill				Sec		
		Flow depth				In		<u>.</u>
□E1#2		Flow width	<u>0</u> , "		,	Ft, In		
□Flow #2	M	leasured length	0, "		4	Ft, In		
	-	Time of travel				Sec		
Т	emperat	ure				°F		-
	pН					pH Units	Te	st strip/Probe
	Ammon	ia —				nom		Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

INDEX (1-3)	ted 3 – Noticeable from a distance	ole in 3 – Clearly visible in outfall flow	3 - Opaque	ļ			COMMENTS							ious
RELATIVE SEVERITY INDEX (1-3)	2 ~ Easily detected	2 – Clearly visible in sample bottle	2-Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COI	3	nd algae					f3)   Obvious
RE	aint	1 - Faint colors in sample bottle	1 – Slight cloudiness	☐ 1 – Few/slight; origin not obvious					sediment and algae					with a severity of
* .	1 – Faint	Sam sam	□ 1-S	☐ 1 – Few/not obvious		ection 6)		iint			gen			indicators
	νgas	☐ Yellow Č☐Other:				(If No, Skip to Section 6)	DESCRIPTION	ping   Peeling Paint	aint Other:		☐ Floatables ☐ Oil Sheen Igae ☐ Other:	☐ Green ☐ Other:		Suspect (one or more indicators with a severity of 3)
DESCRIPTION	sour 🔲 Petroleum/gas	Gray	See severity	c.) Suds		wing Outfalls ] Yes ⊠ No		Spalling, Cracking or Chipping Corrosion	Flow Line Paint	☐ Inhibited	☐ Colors ☐ Excessive Algae	☐ Orange		-
•	Rancid/sour	Brown Orange		Sewage (Toilet Paper, etc.)		and Non-Flo		Spalling, C	Oily D	☐ Excessive	Odors Suds	☐ Brown		or more indic
·	Sewage	Clear		Sewage		th Flowing ited to flow	Present						ization	ence of two
CHECK if Present	□.				ance due to low tide	dicators for Bo that are not rela	CHECK if Present						tfall Character	Potential (presence of two or more indicators)
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	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?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	☑ Unlikely

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

Section 1: Bac	ckgrou	nd Data						
Subwatershed:					Outfall ID:	18-01		
Today's date:					Time (Militar	<b>Y</b>		
Investigators:	Ru	-HARD MI	N		Form complet	ted by:		
Temperature (°F	"):		Rainf	fall (in.): Last 24 hours:	0 Last 48 hours:	0		
Latitutde: 2358		Lon	gitude:		GPS Unit:	18-1-1-1-1	GPS LMK #	Publicut d
Camera: Nikon-					Photo #s:			
Land Use in Dra	inage Ar	ea (Check all that app	ly):					•
					Open Spac	e e		
Ultra-Urban	Resident	ial	•		☐ Institution	al		
Suburban Re	sidential				Other:			
Commercial		•			Known Indust	tries: ALOHA	TONE	R
Notes (e.g, orig			rabs, Mi	innows, vegetation along c	anal is sparse, tras	h on side of canal, paper :	and plastic.	
LOCATIO	N	MATERIA	L ;	SH	APE	DIMENSIO	NS (IN.)	SUBMERGED
		□PVC □	CMP HDPE	☐ Circular	☐ Single ☐ Double	Diameter/Dimens	sions:	In Water:  ☑ No ☐ Partially ☐ Fully
Closed Pipe		□ Steel □ Other: <u>Cóh</u>	LAERE	☐ Box  ☐ Other:	☐ Triple ☐ Other:			With Sediment:  ☑No ☐ Partially
		☐ Concrete		☐ Trapezoid		Depth:		Fully
Open drainag	e	rip-rap Other:	:	☐ Parabolic ☐ Other:		Top Width: Bottom Width:		
☐ In-Stream		(applicable when co	llecting	samples)				
Flow Present?		☐ Yes	Nο	If No, Skij	p to Section 5			:
Flow Description (If present)		Trickle 1	Moderate	e □ Substantial				
Section 3: Qua	ntitati	ve Characterizat	tion					
			4	FIELD DATA FOR FL	OWING OUTF/	ALLS		•
P.	ARAME	TER		RESULT		UNIT	EÇ	QUIPMENT
□Flow#1		Volume				Liter		
		Time to fill		·		Sec		
		Flow depth				In		
□Flow #2		Flow width	0' "			Ft, In		
	<del> </del> -	feasured length	0, "	<b>,</b>		Ft, In		
	<i>′</i>	Time of travel	<u></u>			Sec	···	
	Cemperat	ure				or ·		
	pН			~~···		pH Units	Tes	st strip/Probe
	Ammon	ia		,		ppm		Test strip

Are Any Physical Indicate INDICATOR Odor Color	Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?			RELATIVE SEVERITY INDEX (1-3)  \[ \begin{align*}	(1-3)  3 - Noticeable from a distance  3 - Clearly visible in outfall flow
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper, etc.)	☐ 1 — Slight cloudiness ☐ 1 — Few/slight; origin not obvious	2 - Cloudy 2 - Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Opaque ☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present INDICATOR CHECK if Present	dicators for Both Flow that are not related to fl CHECK if Present	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls  Are physical indicators that are not related to flow present?	tion 6)	COMMENTS	S
Outfall Damage Deposits/Stains		□ Spalling, Cracking or Chipping       □ Peeling Paint         □ Corrosion       □ Oily         □ Oily       □ Flow Line       □ Paint       □ Other:	sediment and algae	nd algae	
Abnormal Vegetation		Excessive   Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:			
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	tall Characterization	u			
Unlikely	Potential (presence o	☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3)	dicators with a severity o	f3)	

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

Section 1: Bac	ekgrou	ind Data							
Subwatershed:				<del></del>	Outfa	II ID:	1402		
Today's date:	A				Time	(Military):			
Investigators:	R	CHALD N	w		Form	completed by	y:		
Temperature (°F	<sup>7</sup> ):		Rainf	all (in.): Last 24 hours: 0	Last 4	3 hours: 0			
Latitutde: 2358	8837.854	Lor	gitude:		GPS U	Jnit:		GPS LMK #	:
Camera: Nikon-					Photo	#s:			
Land Use in Dra	ninage Ar	rea (Check all that app	ly):						
[A]Industrial					□ Op	en Space			
Ultra-Urban	Resident	ial	•		Ins	titutional			;
Suburban Re	sidential				Other:	_	warran.		
Commercial		,			Know	n Industries:	ALOHA	TOWE	2
Notes (e.g, orig	gin of out	fall, if known): large	crabs, Mi	nnows, vegetation along ca			<u> </u>		
						<del>.</del>			
Section 2: Out	tfall De	escription		•					
LOCATIO	N	MATERIA	L ,	SHA	PE		DIMENSIC	NS (IN.)	SUBMERGED
		□ RCP □	СМР	☐ Circular	Single	;	Diameter/Dimen	sions:	In Water:
		□ PVC □	HDPE	☐ Eliptical	☐ Doubl	e	8"	<del></del>	No Partially
∑ Closed Pipe		Steel		☐ Box	☐ Triple				☐ Fully
	•	Other:		☐ Other:	Other:				With Sediment:
									☐ Partially ☐ Fully
		☐ Concrete				•	· ·		
_		☐ Earthen		☐ Trapezoid			Depth:		
Open drainag	ge	☐ rip-rap		Parabolic			Top Width:	<del>-</del>	
		☐ Other:		☐ Other:			Bottom Width: _		
☐ In-Stream		(applicable when c	llecting	samples)		· · · · · · · · · · · · · · · · · · ·			
Flow Present?		☐ Yes	No No	If No, Skip	to Sectio	n 5			
Flow Description					io sectio.				· · · · · · · · · · · · · · · · · · ·
(If present)		☐ Trickle ☐	Moderate	☐ Substantial					
Section 3: Qua	ntitati	ve Characteriza	ion						
				FIELD DATA FOR FLO	OWING	OUTFALLS			
P.	ARAME	TER	:	RESULT			UNIT	EQ	UIPMENT
□Flow#I		Volume					Liter		·
		Time to fill					Sec		
		Flow depth					Ĭn		
□Flow #2		Flow width	0, "			_	Ft, In		
_		Measured length	0, "				Ft, In		
	<u> </u>	Time of travel	<u> </u>				Sec	<u> </u>	
	remperat	ture					°F		
	pН			<u></u>		pI	H Units	Tes	t strip/Probe
	Ammon	ia					ppm	•	Test strip

hara hara	Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?  Yes K No (If No. Skip to Section 5)	DESCRI	□ Sewage       □ Rancid/sour       □ Petroleum/gas       □ 1 - Faint       □ 2 - Easily detected distance	□ Clear       □ Brown       □ Gray       □ Yellow       □ 1 - Faint colors in sample bottle       □ 2 - Clearly visible in outfall flow	See severity $\Box$ 1 – Slight cloudiness $\Box$ 2 – Cloudy $\Box$ 3 – Opaque	□ Sewage (Toilet Paper, etc.)       □ Suds       □ 1 – Few/slight; origin       □ 2 – Some; indications of origin (e.g., not obvious         □ Petroleum (oil sheen)       □ Other:       not obvious sheen)       sheen)	Notes: Potential tidal influence due to low tide	low present?	CHECK if Present COMMENTS	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	☐ Excessive ☐ Inhibited	Odors Colors Oil Sheen Oil Sheen Oil Suds Excessive Algae Other:	□ Brown □ Orange □ Other:	Section 6: Overall Outfall Characterization	
	Outfalls Onl		Rancid/sour	☐ Brown ☐ Orange	See	, etc.)	v tide	t related to flow present?	CK if Present		Oily	☐ Excessive		Brown	acterization	

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

Section 1: Bac	ckgrou	nd Data					•		
Subwatershed:					Outfal	II ID:	P8-03		
Today's date:					Time	(Military):			
Investigators:				•	Form	completed by:		•	
Temperature (°F	"):		Rainf	all (in.): Last 24 hours: (	Last 48	3 hours: 0		1	
Latitutde: 2358	8837.854	Lo	ngitude:		GPS (	Jnit:		GPS LMK #	l:
Camera: Nikon-					Photo	#s:			
Land Use in Dra	inage Ar	ea (Check all that ap	ply):		· ·				
¹☑ Industrial					□Ор	en Space			
Ultra-Urban l	Resident	ial			☐ Ins	titutional	( a	0	
Suburban Res	sidential				Other:	ALO	HA TO	ower	<del>-</del>
Commercial		•				n Industries:			· .
Notes (e.g, orig			crabs, Mi	nnows, vegetation along ca	anal is spa	rse, trash on si	de of canal, paper	and plastic.	
LOCATIO		MATERIA	۱L ,	SHA	VPE .		DIMENSI	ONS (IN.)	SUBMERGED
		□ RCP □	СМР	Circular	Single	· · · · · · · · · · · · · · · · · · ·	Diameter/Dimer		In Water:
•		□PVC □	HDPE	☐ Eliptical	Doubl	e	24	·	⊠.No □ Partially
Closed Pipe		☐ Steel		☐ Box	☐ Triple				☐ Fully
t .	٠	Other: CON	100	☐ Other:	Other:				With Sediment:
					_				☐ Partially ☐ Fully
		☐ Concrete			•				
_		☐ Earthen		☐ Trapezoid			Depth:		
Doen drainag	e	☐ rip-rap		Parabolic			Top Width:		
		Other:	٠	☐ Other:			Bottom Width:		
☐ In-Stream		(applicable when	ollecting	samples)	<del> </del>	·-····································	<u> </u>	<del></del>	
Flow Present?		☐ Yes	<b>E</b> No	If No, Skip	to Section	n 5		·	· · · · · · · · · · · · · · · · · · ·
Flow Description (If present)			Moderate						
Section 3: Qua	ntitati	ve Characteriza	tion				•		
				FIELD DATA FOR FL	OWING	OUTFALLS			
P.	ARAME	TER :	,	RESULT		U	NIT	EC	QUIPMENT
∏Flow#1		Volume				I	iter		· ·
		Time to fill					Sec		
		Flow depth					In		
□Flow #2		Flow width	<u>0</u> , "			F	t, In		
	N	feasured length	0, "			F	t, In		
	<u> </u>	Time of travel				:	Sec		
Γ	remperat	ture	1			-	°F		
	pН					pН	Units	Tes	st strip/Probe
	Ammon	ia				ŗ	pm		Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow? 
Yes 
GNo

INDICATOR	CHECK if Present		.	DESCRIPTION	Z		REI	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	Rancid/s	☐ Rancid/sour ☐ Petroleum/gas ☐ Other.	ım/gas		1 - Faint	2-Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Orange	Gray	Yellow	,	1 - Faint colors in sample bottle	2 - Clearly visible in sample bottle	3 ~ Clearly visible in outfall flow
Turbidity				See severity			☐ 1 – Slight cloudiness	2-Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper	Sewage (Toilet Paper, etc.)	.) Suds			☐ 1 — Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	ience 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?	ndicators for Bot s that are not relat	h Flowing : ed to flow p	and Non-Flor	wing Outfalls Yes 🔼 No		(If No, Skip to Section 6)	ion 6)		
INDICATOR	CHECK if Present	resent		,	DESCRIPTION	N		COMMENTS	S
Outfall Damage			Spalling,	Spalling, Cracking or Chipping Corrosion		Peeling Paint			
Deposits/Stains			□ oily □	☐ Flow Line ☐	☐ Paint ☐	Other:	sediment and algae	ınd algae	
Abnormal Vegetation			☐ Excessive	☐ Inhibited					
Poor pool quality			spnS 🔲	Colors	☐ Floatables Algae	s Oil Sheen			
Pipe benthic growth			☐ Brown	Orange	☐ Green	Other:			
Section 6: Overall Outfall Characterization	utfall Characteriz	zation							

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

☐ Potential (presence of two or more indicators)

如 Unlikely

□ Obvious

☐ Suspect (one or more indicators with a severity of 3)

Section 1: Bac	kgrou	nd Data							
Subwatershed:					Outfal	II ID:	8-04		
Today's date:	4	1-10-10			Time	(Military):			
Investigators:	R	-164ARD 1	N.W	/	Form	completed by:	·		
Temperature (°F)			1	fall (in.): Last 24 hours:	: 0 Last 48	8 hours: 0			
Latitutde: 23588	837.854	Lor	ngitude:		GPS U	Jnit:		GPS LMK #:	
Camera: Nikon-					Photo	#s:			
Land Use in Drai	inage Ar	rea (Check all that app	. <del>ly)</del> ;						
Industrial					□ Op	en Space			
Ultra-Urban R	Residenti	ial			_	stitutional			
Suburban Res	idential					<u> </u>			***
Commercial		1			Know	n Industries: _	HOHA	10u	EL
	11	1 pls 1		mnows, vegetation along	canal is spa	rse, trash on s	ide of canal, paper	and plastic.	
LOCATION		MATERIA	L ;	SI	-IAPE	<del></del>	DIMENSIC	ONS (IN.)	SUBMERGED
·		□ RCP □	СМР	K Circular	☐ Single	<del></del>	Diameter/Dimen		In Water:
		□PVC □	HDPE	Eliptical	☐ Doubl		24"	<del></del>	Partially □
Closed Pipe		Steel	ļ	☐ Box	☐ Triple	;			☐ Fully
·	· . ·	Other: Come	NETE	Other:	Other:	4_			With Sediment: 
🗋 Open drainage	е	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:			Depth: Top Width: Bottom Width: _		
☐ In-Stream		(applicable when co	ollecting:	samples)				- :	<u>विवेशिक्षायाच्यायायायायायायायायायायायायायायायायाय</u>
Flow Present?		☐ Yes	Z-No	If No, Sk	kip to Section	n 5	,		· · · · · · · · · · · · · · · · · · ·
Flow Description (If present)		Trickle	Moderate	Substantial					
Section 3: Quar	ntitati <sup>.</sup>	ve Characterizat	tion						
				FIELD DATA FOR F	LOWING	OUTFALLS	· :		
PA	ARAME	TER		RESULT		υ	JNIT	EQ	UIPMENT
□Flow#1		Volume				1	Liter		
		Time to fill	<u> </u>	···			Sec		
		Flow depth	<u> </u>				In		
□Flow #2	<del></del>	Flow width	0, "			F	Ft, In		
	M	leasured length	0, "			F	Ft, In		
		Time of travel					Sec		
· T	emperat	ure				:	°F		
	pН	<del></del>	<u> </u>			pН	I Units	Tes	t strip/Probe
	Ammon	ia				١,	nom	-	Fest strin

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?

X (1-3)	3 – Noticeable from a distance	3 - Clearly visible in outfall flow	□ 3 – Opaque	(e.g., obvious oil sheen, suds, or floating samitary materials)			TS								
RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	2 – Clearly visible in sample bottle	2-Cloudy	2 - Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		d algae					(5) 🗌 Obvious	
REL		lors in ttle	oudiness	ht; origin			,		sediment and algae					a severity of	
	1 – Faint	☐ 1 — Faint colors in sample bottle	1 Slight cloudiness	1 – Few/slight; origin		ion 6)								dicators with	
• • • • • • • • • • • • • • • • • • • •		☐ Yellow .				(If No, Skip to Section 6)	DESCRIPTION	Peeling Paint	☐ Other:		☐ Floatables ☐ Oil Sheen ae ☐ Other:	☐ Green ☐ Other:		Suspect (one or more indicators with a severity of 3)	
DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	Gray [	See severity	;)		wing Outfalls	DESC	Spalling, Cracking or Chipping Corrosion	Flow Line Paint	☐ Inhibited	☐ Colors ☐ Excessive Algae	☐ Orange			
	Rancid/	☐ Brown ☐ Orange		☐ Sewage (Toilet Paper, etc.) ☐ Petroleum (oil sheen)		ind Non-Flor		Spalling, C	Oily O	☐ Excessive	Odors Suds	Brown		or more indic	
	Sewage Sulfide	Clear		Sewage (Toilet Paper		<b>th Flowing</b> a ted to flow p	Present						ization	ence of two c	
CHECK if Present					ence due to low tide	idicators for Bor s that are not rela	CHECK if Present						ıtfall Characteri	Potential (presence of two or more indicators)	
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!	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?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	section 6: Overall Outfall Characterization	☑ Unlikely	

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

Section 1: Ba	ckgrou	ind Data						
Subwatershed:					Outfall ID:	18	-05	
Today's date:		-10 -1	'D		Time (Military):			
Investigators:		RICHARD	, Mi	w.	Form completed by	y:		
Temperature (°F				fall (in.): Last 24 hours:	0 Last 48 hours: 0			
Latitutde: 2358	8837.854	,	Longitude:		GPS Unit:		GPS LMK #	:
Camera: Nikon-					Photo #s:			
Land Use in Dra	ninage Ar	rea (Check all tha	it apply):	•				•
☐ Industrial					Open Space			
☐ Ultra-Urban	Resident	ial	•		☐ Institutional			
Suburban Re	sidential			•	Other:	<del></del>		
Commercial		•			Known Industries:	-	<u>.</u>	
Notes (e.g, orig	gin of out	fall, if known): la	arge crabs, Mi	innows, vegetation along c	anal is sparse, trash on	side of canal, pape	r and plastic.	
Section 2: Out		· · ·					-	1
LOCATIO	N	MATE			APE	<del>-  </del>	ONS (IN.)	SUBMERGED
,		RCP	□ СМР —	Circular	Single	Diameter/Dime		In Water:
٠		□PVC	HDPE	☐ Eliptical	☐ Double			☐ Partially ☐ Fully
Closed Pipe		Steel		☐ Box	☐ Triple			With Sediment:
		C Other:	OWL	Other:	☐ Other:			No Partially Fully
		Concrete						
☐ Earthen				☐ Trapezoid	1	Depth:		
Open drainag	ţe	☐ rip-rap		☐ Parabolic		Top Width:	4	
		Other:		☐ Other:	:	Bottom Width:		
☐ In-Stream		(applicable wh	en collecting	samnles)				
Flow Present?		☐ Yes	[X] No		p to Section 5			
Flow Description (If present)		☐ Trickle	☐ Moderate					
Section 3: Qua	mtitati	ve Charactei	rization					
Section 5, Qua		ve character	<u>IZZZCIOII</u>	FIELD DATA FOR FL	LOWING OUTFALLS	<del></del>		
P	ARAME	TER		RESULT	<u>`</u>	UNIT	EQ	UIPMENT
□Flow #1		Volume				Liter		<u> </u>
		Time to fill				Sec	· · · · · · · · · · · · · · · · · · ·	,
		Flow depth				In		ů ř
□Flow #2		Flow width	0, ,	,		Ft, In		
	N	leasured length	0, ,	,		Ft, In		
	<u></u>	Time of travel				Sec		
	remperat	ture				۰F		
<del>1</del>	pН				pl	H Units	Tes	t strip/Probe
	Ammon	ia				ppm		Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 
Yes

(1-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	☐ 3 – Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)			Ş						
RELATIVE SEVERITY INDEX (1-3)	2-Easily detected	2-Clearly visible in sample bottle	2-Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		nd algae				
REI	1 – Faint	1 - Faint colors in sample bottle	☐ 1 — Slight cloudiness	☐ 1 — Few/slight; origin not obvious		ion 6)	•		sediment and algae				v
DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Otther:	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:		and Non-Flowing Outfalls  oresent?  Yes	DESCRIPTION	Spalling, Cracking or Chipping   Peeling Paint	Oily Tlow Line Paint Other:	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	☐ Brown ☐ Orange ☐ Green ☐ Other:	
CHECK if Present	☐ Sewage ☐ Sulfide	☐ Clear ☐ Green		Sewage	ie to low tide	ors for Both Flowing are not related to flow	CHECK if Present						Characterization
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	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?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization

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

☐ Potential (presence of two or more indicators)

X Unlikely

☐ Obvious

☐ Suspect (one or more indicators with a severity of 3)

Section 1: Bac	ckgrou	nd Data							
Subwatershed:					Outfal	I ID: 4	9-71		
Today's date:		14-10	·· •		Time (	Military):			
Investigators:	R,	· HARD MI	W		Form o	completed by:			
Temperature (°F			Rainf	all (in.): Last 24 hours: (	) Last 48	hours: 0			
Latitutde: 2358	3837.854	Lon	gitude:		GPS U	nit:		GPS LMK #	•
Camera: Nikon-		· · · · · · · · · · · · · · · · · · ·			Photo	#s:			
Land Use in Dra	inage Ar	ea (Check all that appl	ly):						
√∏ Industrial					□Ор	en Space			-
Ultra-Urban I	Resident	ial			☐ Ins	titutional		•	-
Suburban Re	sidential				Other:				· 
Commercial					Known	Industries: _	t/colf	1 Ton	The _
			rabs, Mi	nnows, vegetation along ca	anal is spar	se, trash on si	de of canal, paper	and plastic.	
Section 2: Out		escription  MATERIAL		SHA	DE		DIMENSY	ONG (THE )	CURVERCER
EGCATIO	14		- ; CMP	☐ Circular	Single	· · · · · · · · · · · · · · · · · · ·	Dimension Diameter/Dimen		SUBMERGED
			HDPE	☐ Eliptical	Double		Biameter/Dimer	istoris:	In Water:  ☑ No ☐ Partially
		Steel		Box	☐ Triple				Fully
, (		☐ Other:	_	☐ Other:	Other:				With Sediment:
									Partially Fully
	•	Concrete							
		☐ Earthen		☐ Trapezoid	٠		Depth:		
Open drainag	;e	☐ rip-rap		Parabolic			Top Width:	_	
		Other:		☐ Other:			Bottom Width:		
☐ In-Stream	<del></del>	(applicable when co	llecting	samples)		* .			
Flow Present?	<del></del>	☐ Yes	<b>2</b> -No	If No, Skip	to Section	1.5			·
Flow Description (If present)			Moderate					··	
Section 3: Oua	ntitati	ve Characterizat	ion						
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		TO CHAIR COLOR		FIELD DATA FOR FL	OWING	OUTFALLS			
P	ARAME	TER		RESULT		U	NIT	EQ	UIPMENT
□Flow#1		Volume				I	Liter		
		Time to fill					Sec		
	<u></u>	Flow depth	<u></u>				In		
□Flow #2		Flow width	<u>0</u> , "			F	t, In		
	N	feasured length	<u>0</u> , "			F	t, In		
	,	Time of travel					Sec		
٦	Гетрегаt	ure					°F		,
	pН				-	рН	Units	Tes	t strip/Probe
	Ammon	ia		est.			pm		Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow? 
Yes

RELATIVE SEVERITY INDEX (1-3)	☐ 1 — Faint . Easily detected ☐ 3 — Noticeable from a distance	□ 1 - Faint colors in sample bottle sample bottle sample bottle	1-Slight cloudiness	☐ 2 — Some; indications ☐ 3 - Some; origin clear of origin (e.g., obvious possible suds or oil sheen, suds, or floating sanitary materials)			COMMENTS		sediment and algae				
DESCRIPTION	□ Sewage    □ Rancid/sour    □ Petroleum/gas    □    □   □   □   □   □   □	□ Clear     □ Brown     □ Gray     □ Yellow       □ Green     □ Orange     □ Red     □ Other:	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:		Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls  Are physical indicators that are not related to flow present?	Sent DESCRIPTION	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other.	☐ Brown ☐ Orange ☐ Green ☐ Other:	
CHECK if Present					ice due to low tide	licators for Both F that are not related	CHECK if Present						
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	

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

☐ Potential (presence of two or more indicators)

M Unlikely

Obvious

☐ Suspect (one or more indicators with a severity of 3)

Section 1: Ba	ckgrou	nd Data								
Subwatershed:					Outfall ID:	9-02				
Today's date:	Ų	5-14-1	D		Time (Military):					
Investigators:		8-14-1 Ricilar	10 /	nin	Form completed by	y:				
Temperature (°F		71/1		fall (in.): Last 24 hours:	: 0 Last 48 hours: 0					
Latitutde: 2358	8837.854		Longitude:	,	GPS Unit:		GPS LMK	#:		
Camera: Nikon-					Photo #s:					
Land Use in Dra	ainage Ar	rea (Check all tha	it apply):							
Industrial					Open Space					
Ultra-Urban	Resident	ial			☐ Institutional					
Suburban Re	sidential				Other:			<del></del>		
Commercial					Known Industries:	AcoHY	7 7	ONER		
Notes (e.g, orig	· · · · · · · · · · · · · · · · · · ·		arge crabs, Mi	innows, vegetation along o	canal is sparse, trash on	side of canal, paper	and plastic.			
LOCATIO		MATE	RIAL	SF	IAPE	DIMENSIC	ONS (IN.)	SUBMERGED		
		RCP	□СМР	N Circular	Single	Diameter/Dimens		In Water:		
		□ PVC	HDPE	☐ Eliptical	Double	24"		⊠ No ☐ Partially		
Closed Pipe		☐ Steel		Box	Triple			☐ Fully		
<i>*</i>		Other:	ON AFOR		Other:		With Sediment:  ☑ No ☐ Partiall ☐ Fully			
								Fully		
		☐ Concrete		☐ Trapezoid		Depth:				
□ O dusins		☐ Earthen		+ %	3	_				
Open drainag	<u>ze</u>	☐ rip-rap		Parabolic		Top Width:				
		Other:	<u> </u>	Other:		Bottom Width: _				
In-Stream		(applicable wh	en collecting	samples)			:	Begestättennententententen		
Flow Present?	•	X. Yes	☐ No	If No, Sk	ip to Section 5			· · · <u>-</u>		
Flow Description (If present)	1	☐ Trickle	Moderate	e						
Section 3: Qua	 antitati	ve Charactei	rization .							
-	***************************************	70 0111111111	ILM VIVI	FIELD DATA FOR F	LOWING OUTFALLS					
P	ARAME	TER		RESULT		UNIT	E	QUIPMENT		
□Flow #1	T	Volume				Liter	·	<u> </u>		
		Time to fill		.=.		Sec				
		Flow depth				In				
□Flow #2		Flow width	0' "	3		Ft, In				
LIFIUW #Z	N	Aeasured length	<u>0</u> ' "			Ft, In				
	·	Time of travel				Sec				
	Temperat	ure	-			°F				
	pН				pl	H Units	Te	est strip/Probe		
	Ammon	ia			-	ppm		Test strip		

	(1-3)	3 – Noticeable from a distance	☐ 3 – Clearly visible in outfall flow	3 - Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)			Š							
	RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	2 – Clearly visible in sample bottle	2-Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		and algae		-			of 3)
	REI	□ 1 – Faint	1 – Faint colors in sample bottle	1 - Slight cloudiness	☐ 1 — Few/slight; origin not obvious		tion 6)			sediment and algae		,			idicators with a severity o
tfalls Only Yes XSNo (If No, Skip to Section 5)	DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	See severity	<ul> <li>□ Sewage (Toilet Paper, etc.)</li> <li>□ Suds</li> <li>□ Petroleum (oil sheen)</li> <li>□ Other.</li> </ul>		and Non-Flowing Outfalls present?  \[ \text{T} \text{Yes } \frac{\mathcal{H}}{\text{No}} \text{No}  \text{(If No, Skip to Section 6)}	DESCRIPTION	Spalling, Cracking or Chipping   Peeling Paint	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	☐ Excessive ☐ Inhibited	Odors Colors Floatables Oil Sheen Suds Excessive Algae	☐ Brown ☐ Orange ☐ Green ☐ Other:		or more indicators) Suspect (one or more indicators with a severity of 3)
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?   Yes	CHECK if Present	Sewage Sulfide	Clear Clear		Sewage	e due to low tide	Section 5: Physical Indicators for Both Flowing and Non-Flowin Are physical indicators that are not related to flow present?	CHECK if Present						all Characterization	Dotential (presence of two or more indicators)
Section 4: Physical Ind Are Any Physical Indicator	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indi Are physical indicators the	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	☑ Unlikely ☐ P

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

Section 1: Bac	ckgrou	na Data				2		
Subwatershed:					Outfall ID:	4-03		
Today's date:	6-	-14-10			Time (Military):			
Investigators:	R	-LY-10 NARED	M.	M.	Form completed b	y:		
Temperature (°F				fall (in.): Last 24 hours:	0 Last 48 hours: 0			
Latitutde: 2358	8837.854		Longitude:		GPS Unit:		GPS LMK #	;
Camera: Nikon-					Photo #s:	,	•	
Land Use in Dra	inage Ar	ea (Check all that	apply):		*			
☐ Industrial					Open Space			
Ultra-Urban I	Resident	ial			Institutional			-
Suburban Re	sidential				Other:			<u> </u>
☐ Commercial		,			Known Industries;			<u></u>
Notes (e.g, orig	<del></del>		rge crabs, Mii	mnows, vegetation along c	anal is sparse, trash on	side of canal, paper	and plastic.	,
LOCATIO		MATE	RIAL	SHA	APE	DIMENSIO	NS (IN.)	SUBMERGED
		□ RCP	□смр	Circular	Single	Diameter/Dimen		In Water:
s with		□PVC	☐ HDPE	☐ Eliptical	Double	Zef"	- <i>'30'</i> ' }	⊠ No □ Partially
Closed Pipe		☐ Steel		Вох	☐ Triple		Ú	☐ Fully
	·.	[A Other: 6	NCKER	Other:	Other:			With Sediment: No
		,				•		☐ Partially ☐ Fully
	☐ Concrete							
		☐ Earthen		☐ Trapezoid		Depth:		
Open drainag	e	☐ rip-rap		Parabolic		Top Width:		
		Other:	_	Other:		Bottom Width: _	· ·	
☐ In-Stream		(applicable who	en collecting	samples)				विभागतिकालम् । वर्गातामा । वर्गातामा । वर्गातामा ।
Flow Present?		Yes	☐ No	If No, Skij	o to Section 5	,		
Flow Description (If present)		Trickle	☐ Moderate	Substantial				
Section 3: Qua	ntitati	ve Character	ization					
		***···································		FIELD DATA FOR FL	OWING OUTFALLS	3		
P	ARAME	TER		RESULT		TINU	ΕÇ	UIPMENT
□Flow #1		Volume				Liter		,
		Time to fill				Sec		
		Flow depth				In		
□Flow #2	<u> </u>	Flow width	0' "			Ft, In		
	M.	leasured length	0' "			Ft, In		
		Time of travel				Sec		
	Temperat	ure				°F		
	pН				р	H Units	Tes	t strip/Probe
,	Ammon	ia				nnm		Test strip

	(1-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	☐ 3 — Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)			S							
	RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	2 – Clearly visible in sample bottle	2 - Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		sediment and algae					of3)
	RE	1 - Faint	☐ 1 – Faint colors in sample bottle	☐ 1 – Slight cloudiness	☐ 1 — Few/slight; origin not obvious		ion 6)	ų.		sediment				:	dicators with a severity
tfalls Only Yes [TNo (f/No, Skip to Section 5)	DESCRIPTION	ge	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:		Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls  Are physical indicators that are not related to flow present?   Yes A No (If No, Skip to Section 6)	DESCRIPTION	Spalling, Cracking or Chipping Paint Corrosion	Oily Plow Line Paint Other.	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	☐ Brown ☐ Orange ☐ Green ☐ Other:		o or more indicators) Suspect (one or more indicators with a severity of 3)
o □	CHECK if Present	Sewage Suffide	☐ ☐ Clear		☐ Sewag	ice due to low tide	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	CHECK if Present						fall Characterization	Potential (presence of two or more indicators)
Section 4: Physical Indicators for Flowing Are Any Physical Indicators Present in the flow?	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Inc Are physical indicators	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	🛱 Unlikely

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

Section 1: Bac	kgroui	nd Data						
Subwatershed:	_				Outfall ID:	9-04		
Today's date:	6	-14-	10		Time (Military):			•
Investigators:		<u> </u>	N,N		Form completed by	: 		
Temperature (°F)	:		Rainf	all (in.): Last 24 hours:	0 Last 48 hours: 0			
Latitutde: 2358	837.854		Longitude:		GPS Unit:	μ	GPS LMK #:	
Camera: Nikon-			•		Photo #s:	· · · · · · · · · · · · · · · · · · ·		
Land Use in Drai	nage Are	ea (Check all ti	hat apply):					
☐ Industrial					Open Space			
Ultra-Urban F	Residenti	al			☐ Institutional			
☐ Suburban Res	idential				Other:			78
☐ Commercial					Known Industries:	Huoty	2 790	<del>ve</del> l
Notes (e.g, origi			large crabs, Min	nnows, vegetation along c	anal is sparse, trash on s	ide of canal, paper a	and plastic.	
LOCATION			ERIAL	SHA	APE	DIMENSIO	NS (IN.)	SUBMERGED
		□ RCP	□СМР	<b>∑</b> -Circular	Single	Diameter/Dimens		In Water:
		□PVC	☐ HDPE	☐ Eliptical	☐ Double	24		⊠ No □ Partially
Closed Pipe		☐ Steel		Вох	☐ Triple	,		Fully
7				☐ Other:	☐ Other:			With Sediment:
		☑YOther: ∠	ANL	Other:	Conter:			☐ No ☐ Partially ☐ Fully
		Concrete		Пт	·	D-4		
-		☐ Earthen		☐ Trapezoid		Depth:		
Open drainag	e	☐ rip-rap		Parabolic		Top Width:	_	
				Other:		Bottom Width:		
☐ In-Stream			vhen collecting	samples)		<u> </u>		
Flow Present?		Yes	□ No		n to Section 5	· · · · · · · · · · · · · · · · · · ·	*	
Flow Description (If present)		☐ Trickle	Moderate	Substantial				
Section 3: Qua	ntitati	ve Charact	erization			•		
			1	FIELD DATA FOR FL	<del></del>			
P	ARAME			RESULT		UNIT	EQ	UIPMENT
□Flow#1		Volume				Liter		
· · · · · · · · · · · · · · · · · · ·		Time to fill		:		Sec		
		Flow depth	0' "	,	_	In		
☐Flow #2	λ.	Flow width leasured lengt	<u>~</u>			Ft, In	<del></del> -	
		Time of travel				Ft, In Sec		
<del></del>	Γemperat					°F .		
	рН				la	-I Units	Tes	t strip/Probe
	L.,						100	

Test strip

ppm

Ammonia

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?

INDICATOR	CHECK if Present		DESCRIPTION	REI	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	1 – Faint	2 - Easily detected	3 – Noticeable from a distance
Color		Clear	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	☐ 1 — Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	1 – Slight cloudiness	2 - Cloudy	3 - Opaque
Floatables -Does Not include Trash!!	_	Sewage (Toilet Paper	etc.) Suds	☐ 1 – Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Votes: Potential tidal influence due to low tide	ince due to low tide					
ection 5: Physical Indicators for Both Flowing and Nor are physical indicators that are not related to flow present?	dicators for Bot that are not relate	th Flowing a ted to flow pa	ection 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls are not related to flow present?	ion 6)	İ	
INDICATOR	CHECK if Present	Present	DESCRIPTION		COMMENTS	S
Outfall Damage			□ Spalling, Cracking or Chipping       □ Peeling Paint         □ Corrosion       □			
Deposits/Stains			☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment and algae	and algae	
Abnormal Vegetation		-	□ Excessive □ Inhibited			
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:			
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:			
ection 6: Overall Outfall Characterization	ıtfall Characteri	ization				
☑ Unlikely	Potential (prese	ence of two c	Potential (presence of two or more indicators) Suspect (one or more indicators with a severity of 3)	dicators with a severity (	of 3)	
;		,				

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

Section 1: Bac	ckgrou	nd Data						
Subwatershed:					Outfall ID:	P-10.	~OI	
Today's date:	1	-14-10			Time (Military):			
Investigators:					Form completed	by:		
Temperature (°F	"):		Raint	fall (in.): Last 24 hours;	D Last 48 hours: 0			
Latitutde: 2358	3837.854	Lon	gitude:		GPS Unit:		GPS LMK #	
Camera: Nikon-					Photo #s:			
Land Use in Dra	inage Ar	ea (Check all that app	ly):		.,,	-		
Industrial					Open Space		•	
Ultra-Urban	Resident	ial	•		☐ Institutional			:
☐ Suburban Re	sidential				Other:			
Commercial		•			Known Industrie	s: Acott	4 Jones	1
Notes (e.g, orig	<u></u>		rabs, Mi	ппоws, vegetation along с	anal is sparse, trash o	n side of canal,	paper and plastic.	
LOCATIO		MATERIA	• · · · · · · · · · · · · · · · · · · ·	SHA	APE	DIME	NSIONS (IN.)	SUBMERGED
		□ RCP □	СМР	☑ Circular	<b>'</b> Single		Dimensions:	In Water:
 غد ا	•	ÆPVC □	HDPE	☐ Eliptical	☐ Double	16	>	No Partially
Closed Pipe		☐ Steel		☐ Box	☐ Triple			☐ Fully
	i Ž	Other:	_	Other:	Other:	130" Loo	BUT MOST	With Sediment:  No Partially Sully
		☐ Concrete				13/	reregi o	
,		Earthen		☐ Trapezoid	•	Depth:	<u> </u>	
Open drainag	e	☐ rip-rap		Parabolic		Top Width	:	
				☐ Other:		Bottom Wi	idth:	
		Other:						
In-Stream		(applicable when co		<del></del>				
Flow Present?		☐ Yes	Йуо	If No, Skip	to Section 5	,		
Flow Description (If present)		☐ Trickle ☐ ]	Moderate	☐ Substantial				
Section 3: Qua	ntitati	ve Characterizat	ion					
				FIELD DATA FOR FL	OWING OUTFALL	.s		
. P.	ARAME	TER		RESULT		UNIT	EQ	ŲIPMENT
□Flow#1		Volume				Liter		
		Time to fill				Sec		
		Flow depth				In		
□Flow #2		Flow width	<u>0</u> , "			Ft, In		
∐110₩ #2	M	leasured length	<u>0</u> ' "			Ft, In		
		Time of travel				Sec		
1	Cemperat	ure				°F		
	pН	· · · <del></del>				pH Units	Tes	t strip/Probe
	Ammon	ia —				ppm		Fest strip

(If No. Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes

(1-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	3 - Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)			TS							
RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	☐ 2 – Clearly visible in sample bottle	2-Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		nd algae		9 9 9			f3)
REL	□ 1 – Faint	☐ 1 — Faint colors in sample bottle	☐ 1 – Slight cloudiness	1 – Few/slight; origin not obvious		3			sediment and algae			,		ors with a severity o
DESCRIPTION	Rancid/sour   Petroleum/gas   Other:	☐ Brown ☐ Gray ☐ Yellow ☐ ☐ 1 ☐ Orange ☐ Red ☐ Other:	See severity	☐ Sewage (Toilet Paper, etc.) . ☐ Suds ☐ Petroleum (oil sheen) ☐ Other: not o		and Non-Flowing Outfalls present? \(\sumeq\ \text{Yes}\ \sumeq\ \text{No}\) (If No, Skip to Section 6)	DESCRIPTION	Spalling, Cracking or Chipping Peeling Paint Corrosion	Oily Plow Line Paint Other:	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	☐ Brown ☐ Orange ☐ Green ☐ Other:		or more indicators) Suspect (one or more indicators with a severity of 3)
CHECK if Present	Sewage Sulfide	Clear		☐ Sewag	ue to low tide	tors for Both Flowing t are not related to flow	CHECK if Present						Characterization	Potential (presence of two or more indicators)
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indicators for Both Flowing and Non-Flowin Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	☑ Unlikely ☐ Pot

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

Section 1: Bac	ckgrou	nd Data						
Subwatershed:					Outfall ID:	P10-05	<del>-</del>	
Today's date:	6-	14-10			Time (Military):			
Investigators:	R	( HOLD	M	N	Form completed	by:		
Temperature (°F	"):		Rainf	fall (in.): Last 24 hours:	0 Last 48 hours: 0		•	
Latitutde: 2358	8837.854	Lo	ngitude:		GPS Unit:		GPS LMK #	:
Camera: Nikon-					Photo #s:			
Land Use in Dra	inage Ar	ea (Check all that app	oly):			24		
[Xundustrial]					Open Space			
Ultra-Urban	Resident	ial			☐ Institutional		•	
Suburban Re	sidential				Other:			
☑ Commercial		•			Known Industries	s. thou	Dour	51
Notes (e.g, orig	in of out	fall, if known): large	crabs, Mi	nnows, vegetation along o	canal is sparse, trash o	n side of canal, pape	er and plastic.	
					<u> </u>			
Section 2: Out		1		, ;		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
LOCATIO	N	MATERIA	<del></del>	SH	APE	DIMENS	IONS (IN.)	SUBMERGED
:		RCP -	CMP	Circular Circular	Single	Diameter/Dime		In Water:  ☑ No
		1	HDPE	☐ Eliptical	☐ Double	12'	<del></del>	Partially Fully
Closed Pipe		Steel	•	Box	☐ Triple			With Sediment:
		Other:	_	Other:	☐ Other:			№ No □ Partially
		П.С.		· · · · · · · · · · · · · · · · · · ·				Fully
		Concrete		☐ Trapezoid		Depth:		
│ │ ☐ Open drainag	e	Earthen		☐ Parabolic	4.	Top Width:		
		☐ rip-rap				•		
		☐ Other:	•	Other:		Bottom Width:		
☐ In-Stream		(applicable when c	ollecting .	samples)				वर्षावस्य क्षराववंशकार्यक्षयावयव्यक्षया
Flow Present?		☐ Yes	Νο	If No, Ski	p to Section 5	· · · · · · · · · · · · · · · · · · ·	<u> </u>	
Flow Description (If present)		☐ Trickle ☐	Moderate	☐ Substantial	<del>-</del>			
Section 3: Que	ntitati	ve Characteriza	tion			· · · · · · · · · · · · · · · · · · ·		· · ·
Section 5. Qua	nentati	ve Characteriza	LIUII	FIELD DATA FOR FI	LOWING OUTFALL	s		
P	ARAME	TER	Ţ :	RESULT		UNIT	EC	UIPMENT
□Flow#1		Volume				Liter		
LIFIOW#1		Time to fill				Sec		
* #		Flow depth				In		
□E10#2	-	Flow width	0' "	<del></del>		Ft, In		
□Flow #2	N	leasured length	<u>0</u> , "			Ft, In		
	,	Time of travel				Sec		
1	emperat	ure				°F		
	pН					pH Units	Tes	t strip/Probe
	Ammon	ia				ppm	,	Test strip

		3 – Noticeable from a distance	3 – Clearly visible in outfall flow	lue	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)										
	(1-3)	3 – Notices	Outfall flow	3-Opaque	(e.g., o	i		TS	<u> </u>	:	ř				
	RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	2 – Clearly visible in sample bottle	2 - Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		nd algae					. 70
	REL	□ 1 Faint	1 - Faint colors in sample bottle	☐ 1 – Slight cloudiness	☐ 1 — Few/slight; origin not obvious		9			sediment and algae					a comment of the contract of
alls Only Yes 🛛 No (If No, Ship to Section 5)	DESCR	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Yellow ☐ ☐ Clovange ☐ Red ☐ ☐ Other:	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ ☐ Petroleum (oil sheen) ☐ Other: not		Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls  Are physical indicators that are not related to flow present?	DESCRIPTION	Spalling, Cracking or Chipping Peeling Paint Corrosion	Oily Plow Line Paint Other:	☐ Excessive ☐ Inhibited	Odors Colors Floatables Oil Sheen Suds Excessive Algae	☐ Brown ☐ Orange ☐ Green ☐ Other:		or more indicators)   Suspect (one or more indicators with a sevenity of 2)
ators for Flowing Out	CHECK if Present	Sewage	Clear		☐ Sewage ☐ Petrole	lue to low tide	ators for Both Flowing t are not related to flow	CHECK if Present						I Characterization	Potential (presence of two or more indicators)
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	区 Unlikely

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

□ Obvious

☐ Suspect (one or more indicators with a severity of 3)

Section 1: Bac	ekgrou	nd Data							
Subwatershed:					Outfall ID:	0	10-02	•	
Today's date:	_6	14-10			Time (Military):				<u></u>
Investigators:	R	IL HAMD	nih		Form completed	by:	,		
Temperature (°F	· '):		Raint	fall (in.): Last 24 hours: 0	Last 48 hours: 0				,
Latitutde: 2358	8837.854		Longitude:		GPS Unit:			GPS LMK #:	
Camera: Nikon-					Photo #s:			<u> </u>	
Land Use in Dra	inage Ar	ea (Check all that	apply):						
Industrial					Open Space				
☐ Ultra-Urban 1	Resident	ial			☐ Institutional				
Suburban Res	sidential				Other:				
Commercial		•			Known Industries	d	90HA	tong	L_
Notes (e.g, orig			ge crabs, Mi	nnows, vegetation along can	al is sparse, trash or	n sid	e of canal, paper a	and plastic.	1201.65
LOCATIO		MATER	IAL	SHAF	PE		DIMENSIO	NS (IN.)	SUBMERGED
		RCP	□СМР	- Circular	I Single		Diameter/Dimens	ions:	In Water:
		□ PVC ·	☐ HDPE	☐ Eliptical	_ Double		12"	·····	□ No No Partially
Closed Pipe		Steel		□ Box [	☐ Triple				Fully
1		Other:		☐ Other: [	Other:				With Sediment:   ☑ No   ☐ Partially   ☐ Fully
		☐ Concrete						,,,,,,	
		☐ Earthen		Trapezoid	·		Depth:		
Open drainag	e	☐ rip-rap		Parabolic			Top Width:	-	
		Other:		☐ Other:			Bottom Width:	··	
☐ In-Stream	<del></del>	(applicable whe	n collecting	samples)					
Flow Present?		☐ Yes		If No, Skip t			,	· · · · · · · · · · · · · · · · · · ·	
Flow Description (If present)		☐ Trickle	☐ Moderate	-					
Section 3: Qua	ntitati	ve Characteri	zation						
		:		FIELD DATA FOR FLO	WING OUTFALL	s			
P	ARAME	TER		RESULT		UN	IIT	EQ	UIPMENT
□Flow#1		Volume				Li	ter		<u> </u>
		Time to fill				Se	ec		
		Flow depth				Iı	n		
□Flow #2		Flow width	0, "			Ft,	In		
	N	leasured length	0, "			Ft,	In		
	,	Time of travel	_			Se	ec		
ТТ	Гетрега	ture				°)	7		
	pН	····				pH t	Inits	Tes	strip/Probe
	Ammon	ia		<del></del>		qq	m		Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?

(1-3)	3 ~ Noticeable from a distance	3 – Clearly visible in outfall flow	3-Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)			S								
RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	☐ 2 – Clearly visible in sample bottle	2-Cloudy	2 - Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		nd algae		15 15 15 15 15			f3) 🔲 Obvious	
REL	□ 1 – Faint	☐ 1 — Faint colors in sample bottle	☐ 1 – Slight cloudiness	☐ 1 — Few/slight; origin not obvious		on 6)			sediment and algae					licators with a severity o	
DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:		ection 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls are not related to flow present?	DESCRIPTION	Spalling, Cracking or Chipping Peeling Paint Corrosion	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	☐ Brown ☐ Orange ☐ Green ☐ Other:		or more indicators) Suspect (one or more indicators with a severity of 3)	
CHECK if Present	Sewage	Clear Clear		☐ Sewage	ce due to low tide	ection 5: Physical Indicators for Both Flowing and Nor re physical indicators that are not related to flow present?	CHECK if Present						fall Characterization	Potential (presence of two or more indicators)	
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	ection 5: Physical Ind re physical indicators t	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	ection 6: Overall Outfall Characterization	🗹 Unlikely 🗌 I	

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

Section 1: Background Data

Subwatershed:					Outfall I	D: (	10-07	<del></del>	
Today's date:	bu	-14-ID			Time (M	(ilitary):			
Investigators:	R	-11 HARD	Mir	~	Form cor	mpleted by:			
Temperature (°F	F):		Rainf	fall (in.): Last 24 hours:	0 Last 48 h	ours: 0		<del>-</del>	
Latitutde: 2358	8837.854	Lo	ongitude:		GPS Uni	it:		GPS LMK #:	
Camera: Nikon-	•	1			Photo #s	:			
Land Use in Dra	ainage Ar	rea (Check all that ap	ply):		<del>_</del>				
↓ Industrial					Open	Space			
Ultra-Urban	Resident	ial			☐ Institu	utional			
☐ Suburban Re	esidential						· · ·	<del></del>	
Commercial					Known I	ndustries: _	ALOHA	PelinE	34
Notes (e.g, orig	gin of out	fall, if known): large	crabs, Min	πnows, vegetation along c	anal is sparse	, trash on si	de of canal, paper a	and plastic.	
Section 2: Out		escription		· · · · · · · · · · · · · · · · · · ·					
LOCATIO	N	MATERIA	\L		APE		DIMENSIO	NS (IN.)	SUBMERGED
		□ RCP □	CMP	Circular	☑-Single		Diameter/Dimens	ions:	In Water:
		□ PVC □	] HDPE	☐ Eliptical	☐ Double		10		☐ Partially
Closed Pipe		Steel		☐ Box	☐ Triple				Fully
	•	☐ Other:		Other:	Other:				With Sediment:
		1							Partially Fully
		☐ Concrete		Transpoid			Don't day		
□ O dwines		☐ Earthen		☐ Trapezoid			Depth:		
Dpen drainag	ge	☐ rip-rap	•	☐ Parabolic			Top Width:		
		Other:		Other:			Bottom Width:		
☐ In-Stream		(applicable when	collecting	tsamples)	l.				
Flow Present?		☐ Yes	<b>☑</b> .No	If No, Skij	p to Section 5	<del></del> ;	,		<del></del>
Flow Description (If present)	l	☐ Trickle ☐	] Moderate	Substantial					
Section 3: Qua	antitati	ve Characteriza	ition	_					
				FIELD DATA FOR FL	OWING O	UTFALLS			
P.	ARAME	TER		RESULT		U	NIT	EQ	UIPMENT
□Flow#1		Volume	-			L	iter		
	ļ	Time to fill					Sec		
İ	<u> </u>	Flow depth		,,,			In		
□Flow #2		Flow width	0' "			F	t, In		
	<del></del>	Aeasured length	<u>0</u> , "			F	t, In	<del></del> -	
	<u> </u>	Time of travel	-			<del></del>	Sec		
	Temperat	ure					°F		
	pН	<u></u>		···		pН	Units	Test	t strip/Probe
	Ammon	ia				n	pm	ח	Γest strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow? 

[Genome of the content of the con

INDICATOR	CHECK if Present			DESCRIPTION	-	1 .		RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		☐ Sewage	Rancid/sour	our 🔲 Petroleum/gas	n/gas		☐ I — Faint	2 - Easily detected	3 – Noticeable from a
Color		Clear	Brown	Gray	Yellow		1 – Faint colors in	2 – Clearly visible in	S - Clearly visible in
	]	Green	Orange	Red	□Other:		sample bottle	sample bottle	outfall flow
Turbidity				See severity			☐ 1 — Slight cloudiness	□2-Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper	Sewage (Toilet Paper, etc.)	) 🗀 Suds			1 – Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	ence due to low tide								
Section 5: Physical Indicators for Both Flowing and Non-Flowin Are physical indicators that are not related to flow present?	ndicators for Bot s that are not relat	th Flowing a	nd Non-Flow resent?	ving Outfalls ] Yes ⊄No		(Jf No, Skip to Section 6)	ion 6)		
INDICATOR	CHECK if Present	Present		1	DESCRIPTION	Z		COMMENTS	S
Outfall Damage			Spalling, C	Spalling, Cracking or Chipping Corrosion		Pecling Paint			
Deposits/Stains				Flow Line   1	□ Paint □	Other:	sedim	sediment and algae	
Abnormal Vegetation		-	☐ Excessive	☐ Inhibited					
Poor pool quality			Odors Suds	Colors	∏ Floatables Algae	s Oil Sheen			
Pipe benthic growth			Brown	Orange	Green	Other:			
Section 6: Overall Outfall Characterization	ıtfall Characteri	zation							
☑ Unlikely □	Potential (presence of two or more indicators)	ence of two o	r more indica		Suspect (or	ne or more inc	Suspect (one or more indicators with a severity of 3)	ty of 3)	

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

Section 1: Background Data

Subwatershed					Outfall ID:	10-04	·	
Today's date:	6	14-10			Time (Military):		<u> </u>	***
Investigators:		1 CHAIN	Min	/	Form completed by	y:		
Temperature (°F		( · · · · · · · · · · · · · · · · · · ·		all (in.): Last 24 hours:	0 Last 48 hours: 0			
Latitutde: 2358	8837.854		Longitude:		GPS Unit;		GPS LMK #	<del>//:</del>
Camera: Nikon-					Photo #s:			
Land Use in Dra	inage Ar	ea (Check all the	at apply):			14.		
Industrial					Open Space			
Ultra-Urban	Resident	ial	•		Institutional			
🗌 Suburban Re	sidential				Other:	e. B. gart		·-
°⊠ Commercial		•			Cther:  Known Industries:	ALOHA	Toh	EL
Notes (e.g, orig	in of out	fall, if known): l	arge crabs, Mir	mows, vegetation along c	anal is sparse, trash on	side of canal, paper		
Section 2: Out	tfall De	scription						
LOCATIO	N	MATE	RIAL		APE	DIMENSIC	ONS (IN.)	SUBMERGED
		□ RCP	☐ CMP	E Circular	☑ Single	Diameter/Dimen	sions:	In Water:
		□ PVC	HDPE	☐ Eliptical	☐ Double	16		No Partially
Closed Pipe		☐ Steel	·	Box	Triple			Fully
		Other:	MEET	Other:	☐ Other:			With Sediment:
					·			Partially Fully
		Concrete					<del>.</del>	
		☐ Earthen		☐ Trapezoid		Depth:		
Open drainag	(e	☐ rip-rap		☐ Parabolic		Top Width:	_	
		Other:		Other:		Bottom Width: _	<del></del>	
☐ In-Stream	.,		nen collecting s	samples)				
Flow Present?		Yes	-☑ No		n to Section 5			
Flow Description (If present)	:	Trickle	☐ Moderate	☐ Substantial			**************************************	
Section 3: Qua	ntitati	ve Characte	rization					· · · · · · · · · · · · · · · · · · ·
section of Zan	Hititut	Ve Characte.	I IZAKUN	FIELD DATA FOR FL	OWING OUTFALLS			_
P	ARAME	TER	·	RESULT	1	UNIT	EC	QUIPMENT
		Volume				Liter		2011
☐Flow #1	<del></del>	Time to fill				Sec		
		Flow depth				In		
□Flow #2		Flow width	0, "			Ft, In		
□I'10W #Z	M	leasured length	0, "			Ft, In		- 1
		Fime of travel				Sec		
	Γemperat	ure		-	· · · · · · · · · · · · · · · · · · ·	°F		
	pН	- · · · · · · · · · · · · · · · · · · ·			pl	-I Units	Те	st strip/Probe
	Ammon	in	!	-				

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

(1-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	3 - Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)			S						
RELATIVE SEVERITY INDEX (1-3)	2-Easily detected	2 – Clearly visible in sample bottle	2-Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		nd algae				
REL	1 Faint	1 – Faint colors in sample bottle	1 - Slight cloudiness	☐ 1 — Few/slight; origin not obvious		on 6)			sediment and algae				
DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:		nd Non-Flowing Outfalls resent? ☐ Yes ☐ No (If No, Skip to Section 6)	DESCRIPTION	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	□ Oily □ Flow Line □ Paint □ Other:	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	☐ Brown ☐ Orange ☐ Green ☐ Other:	
Çif nt	Sewage 🗀 Sulfide	☐ Clear		Sewage (	w tide	or Both Flowing a	CHECK if Present						racterization
INDICATOR CHECK if Present	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	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?	INDICATOR CHE	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization

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

 $\hfill \square$  Potential (presence of two or more indicators)

Unlikely

☐ Obvious

☐ Suspect (one or more indicators with a severity of 3)

Section 1: Ba	ckgrou	nd Data							•
Subwatershed:					Outfal	l ID:	1/10-05	ر -	
Today's date:	60	14-10		:	Time (	(Military):	· · · · · · · · · · · · · · · · · · ·		
Investigators:	ໍດ	WHARD	N	lin	Form o	completed by	:		
Temperature (°F	?):	1,,,,	Rainf	fall (in.): Last 24 hours:	0 Last 48	hours: 0	<del>-</del>		
Latitutde: 2358	8837.854		Longitude:		GPS U	Jnit:		GPS LMK #	
Camera: Nikon-	•		,		Photo	#s:			<del></del>
Land Use in Dra	inage Ar	ea (Check all tha	t apply):	•	-				
Industrial					□ Op	еп Ѕрасе			
Ultra-Urban	Resident	ial			☐ Ins	titutional			
Suburban Re	sidential				Other:			·	<u></u>
<b>∠</b> Commercial		,			Knowi	ı Industries: _	ALOHO	TOWER	
Notes (e.g, orig	<del></del>		arge crabs, Mi	nnows, vegetation along					
LOCATIO	-	MATE	RIAL	SH	APE		DIMENSI	ONŠ (IN.)	SUBMERGED
		RCP	□ СМР	☑ Circular	Single	· · · · · · · · · · · · · · · · · · ·	Diameter/Dimer	nsions:	In Water:
		□ PVC	HDPE	☐ Eliptical	☐ Double	e .	6"		No Partially
Closed Pipe		Steel		☐ Box	☐ Triple				Fully
		Other:		Other:	Other:			,	With Sediment:  No □ Partially □ Fully
□ Open drainag	ge	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:	-	☐ Trapezoid ☐ Parabolic ☐ Other:	3		Depth: Top Width: Bottom Width: _		
☐ In-Stream		(applicable wh	en collecting	samples)					
Flow Present?		☐ Yes	No		ip to Section	i 5	,		
Flow Description (If present)	<del></del>	☐ Trickle	☐ Moderate		-		7.7		
Section 3: Qua	ıntitati	ve Charactei	rization						
<u></u>		***********	· ·	FIELD DATA FOR F	LOWING	OUTFALLS	-		
P	ARAME	2.4.1.		RESULT	·	ι	INIT	: EQ	UIPMENT
Flow #1		Volume					Liter		
		Time to fill		17			Sec	-	
	*	Flow depth					In		
□Flow #2	\$37	Flow width	0' "			I	t, In	- 4 1-	
<del></del> , · · · ·	N	leasured length	<u>0</u> ' "			I	t, In		
	L	Time of travel					Sec		
	Temperat	ure					°F		
	pН					pН	Units	Tes	t strip/Probe
	Ammon	ia		,					T4-4-1

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow? 
No

(1-3)	3 – Noticeable from a	distance	13 - Clearly visible in	outfall flow	3 - Opaque	3 - Some; origin clear	sheen, suds, or floating sanitary materials)				S							1
RELATIVE SEVERITY INDEX (1-3)		☐ 2—Easily detected	2 - Clearly visible in	sample bottle	2-Cloudy	☐ 2 – Some; indications	possible suds or oil sheen)	}	į		COMMENTS		nd algae					f3)
REI			lors in	ottle	loudiness	zht: origin							sediment and algae					a severity c
			☐ 1 — Faint colors in	sample bottle	1 - Slight cloudiness	1 - Few/slight: origin	not obvious	į		(9 uo	 	i						licators with
DESCRIPTION	id/sour 🗌 Petroleum/gas	**	n Gray Pellow	ge	See severity	etc.) 🗖 Suds	Other:	- The state of the	Parket Pa	Nowing Outfalls (If No, Skip to Section 6)	DESCRIPTION	Spalling, Cracking or Chipping   Peeling Paint Corrosion	☐ Flow Line ☐ Paint ☐ Other:	ve 🔲 Inhibited	☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Excessive Algae ☐ Other:	☐ Orange ☐ Green ☐ Other:		licators) Suspect (one or more indicators with a severity of 3)
	☐ Rancid/sour	Other:	☐ Brown	Orange		Sewage (Toilet Paper, etc.)	Petroleum (oil sheen)			and Non-F present?		Spalling, C	Oily	☐ Excessive	Odors	☐ Brown		or more in
	☐ Sewage	Sulfide	Clear	☐ Green		Sewage	☐ Petroleus			th Flowing ted to flow p	Present		i				ization	ence of two
CHECK if Present		].					]	nce due to low tide		licators for Boot that are not rela	CHECK if Present						Ifall Characteri	☐ Potential (presence of two or more indicators)
INDICATOR	Odnr		ر امان	TO TO	Turbidity	Floatables	Trash!	Notes: Potential tidal influence due to low tide	٠.	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	Unlikely

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

Section 1: Bac	ckgrou	ind Data							
Subwatershed:					Outfa	II ID:	10-06		
Today's date:	6-	-14-10			Time	(Military):			
Investigators:	R10	-14-10 HARD	Min	<u>,                                      </u>	Form	completed by:			
Temperature (°F			Raini	all (in.): Last 24 hours:	0 Last 48	3 hours: 0			
Latitutde: 2358	8837.854		Longitude:		GPS (	Jnit:		GPS LMK#	
Camera: Nikon-					Photo	#s:			1. 1
Land Use in Dra	inage A	rea (Check all t	that apply):		·				
Industrial					□ Op	en Space			•
Ultra-Urban I	Resident	ial			☐ Ins	titutional			
Suburban Re	sidential				Other:				
Commercial		•				n Industries: _	Acolf	70u	Or.
Notes (e.g, orig		<del>_</del>	: large crabs, Mi	anows, vegetation along c	anal is spa	rse, trash on si	de of canal, paper a	nd plastic.	
LOCATIO			TERIAL .	SH	APE	•	DIMENSIO	NS (IN.)	SUBMERGED
		RCP	□смр	☑ Circular	Single	· · · · · · · · · · · · · · · · · · ·	Diameter/Dimens	ions:	In Water:
		□ PVC	HDPE	Eliptical	, Doubl		_ \( \cdot \)	· <del></del>	⊠ No □ Partially
Closed Pipe		☐ Steel		□Box	☐ Triple				☐ Fully
		<u></u>	conclt	Other:	Other				With Sediment:  ☑ No ☐ Partially ☐ Fully
		☐ Concrete							
		☐ Earthen		☐ Trapezoid			Depth:		
Open drainag	е	☐ rip-rap		Parabolic			Top Width:	-	
		Other:		Other:			Bottom Width:		
☐ In-Stream			when collecting	(complet)				<del></del>	
Flow Present?		Yes	□ No	· · · · · · · · · · · · · · · · · · ·	n do Candin				
Flow Description (If present)	*****	Trickle	☐ Moderate	If No, Skip	o to Section	<i></i>	· ·		
(11 present)		<u>'</u>		-	<del>.</del>				<u> </u>
Section 3: Qua	ntitati	ve Charact	erization				<u> </u>		
				FIELD DATA FOR FL	OWING	OUTFALLS		· :	,
P/	ARAME	TER		RESULT	٠	U	NIT	ΕÇ	UIPMENT
□Flow#I		Volume		· · · · · · · · · · · · · · · · · · ·		I	iter		•
		Time to fill			•		Sec		
		Flow depth					In		
□Flow #2		Flow width	<u>0</u> ' "		<b></b> .	F	t, In		
	N	leasured lengtl	h <u>0</u> ' "			F	t, In		
_		Time of travel	•			\$	Sec		
Τ	Cemperat	ture					°F		
	рН					pН	Units	Tes	t strip/Probe
	Ammon	ia	ľ	\			nm		Tost strin

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

)EX (1-3)	3 – Noticeable from a distance	n 3 – Clearly visible in outfall flow	3 - Opaque			,	ENTS						
RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	2 – Clearly visible in sample bottle	2 - Cloudy	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		and algae				
RE	1 – Faint	1 – Faint colors in sample bottle	☐ 1 – Slight cloudiness	☐ 1 — Few/slight; origin not obvious		ion 6)			sediment and algae				
DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	See severity	it Paper, etc.) Suds sheen) Other:		Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls  Are physical indicators that are not related to flow present?	DESCRIPTION	Spalling, Cracking or Chipping   Peeling Paint Corrosion	□ Oily □ Flow Line □ Paint □ Other:	☐ Excessive ☐ Inhibited	□ Odors       □ Colors       □ Floatables       □ Oil Sheen         □ Suds       □ Excessive Algae       □ Other.	☐ Brown ☐ Orange ☐ Green ☐ Other:	
	Sewage Sulfide	☐ Clear ☐ Green		Sewage (Toilet Paper, etc.)	tide	Both Flowing and related to flow pres	CHECK if Present				·		terization
CHECK if Present					ence due to low t	ndicators for s that are not	CHEC						nffall Charac
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization

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

☐ Potential (presence of two or more indicators)

**中Unlikely** 

☐ Obvious

 $\hfill \square$  Suspect (one or more indicators with a severity of 3)

Section 1: Bac	ckgrou	nd Data					0		
Subwatershed:					Outfall 1	ID:	-10		
Today's date:	6-	14-10			Time (N	filitary):			
Investigators:	R,	14-10 UNARD	MIN		Form co	mpleted by:	·		
Temperature (°F			Rainf	all (in.): Last 24 hours:	0 Last 48 h	iours: 0			
Latitutde: 2358	3837.854	Ī	Longitude:		GPS Un	it:		GPS LMK #:	· · ·
Camera: Nikon-					Photo #s	3;			
Land Use in Dra	inage Ar	ea (Check all that	apply):					1	g Re
Industrial		•			Open	ı Space			
Ultra-Urban	Resident	ial			☐ Instit	tutional			
☐ Suburban Re	sidential				Other:			<del></del>	
Commercial		,			Known I	ndustries: _	DLOHA	Jon B	Ri
Notes (e.g, orig	<del></del>		ge crabs, Mir	nows, vegetation along o	canal is sparse	e, trash on si	de of canal, paper a	and plastic.	·c.
LOCATIO	N	MATER	TAL	SH	APE		DIMENSIO	NS (IN.)	SUBMERGED
		RCP	□СМР	🔁 Circular	Single		Diameter/Dimens	ions:	In Water:
			☐ HDPE	☐ Eliptical	☐ Double		# Z	<u>L''</u>	No ☐ Partially ☐ Fully
Closed Pipe		Steel	THE STATE OF THE S	Box	Triple				With Sediment:
		又Other: <u>Co</u> A	verme	Other:	Other: _				⊠-No □ Partially □ Fully
☐ Open drainag	re	Concrete  Earthen  rip-rap  Other:	ļ	☐ Trapezoid           ☐ Parabolic           ☐ Other:	:		Depth: Top Width: Bottom Width:		
☐ In-Stream		(applicable when	n collecting s	samples)			<u> </u>	· f	
Flow Present?		☐ Yes	<b>∑</b> No		p to Section 3	٢	,	<del></del>	
Flow Description (If present)			Moderate		p			+ <del>***</del>	***************************************
Section 3: Qua	ntitati	ve Characteria	zation						
				FIELD DATA FOR F	LOWING O	UTFALLS			·
P.	ARAME	TER		RESULT		U	NIT	EQ	UIPMENT
□Flow#1		Volume				1.	iter		
		Time to fill					Sec		
		Flow depth					Ĭn .		
□Flow #2		Flow width	0, "			F	t, In		•
	M	leasured length	0, "			F	t, In		
		Time of travel				- 5	Sec		
	Γemperat	ure			*.		°F		
	pН				ŗ	pН	Units	Test	strip/Probe
	Ammon	ia			$\Box$	р	pm	7	Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

Comments   Comments	INDICATOR Odor Color Turbidity	CHECK if Present	Sewage Suffide Clear Green	Rancid/sour	J/Sour   Petroleum/gas   Gray   C   C   C   C   C   C   C   C   C	um/gas	llow ler:	☐ 1 – Faint ☐ 1 – Faint colors in sample bottle		RELATIVE SEVERITY INDEX (1-3)  \[ \begin{align*}	1-3)  3 - Noticeable from a distance  3 - Clearly visible in outfall flow
(If No, Skip to Section 6)  FESCRIPTION  ping	Floatables Pso Not Include Trash!		Sewage (7	Toilet Paper, etc	ž			∠ 1 - Slight cloudiness     √ 1 - Few/slight; origin     not obvious		2 - Cloudy 2 - Some; indications of origin (e.g., possible suds or oil sheen)	3 - Opaque 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Corrosion   Clip   Cloud Chipping   Peeling Paint	INDICATOR	CHECK If P	resent			DESCRIP	TION			COMMENTS	
□ Oily □ Flow Line □ Paint □ Other:   □ Excessive □ Inhibited □ Odors □ Odors □ Sheen □ Sheen □ Suds □ Excessive Algae □ Other:   □ Brown □ Orange □ Green □ Other:	Outfall Damage			Spalling Corrosio	, Cracking or Ch	iipping	•				
	Deposits/Stains					] Paint	Other:	Se	diment and	algae	
□ Odors       □ Colors       □ Floatables         □ Suds       □ Excessive Algae         □ Brown       □ Orange       □ Green	Abnonnal Vegetation			☐ Excessive							
☐ Brown ☐ Orange ☐ Green	Poor pool quality			Odors Suds	☐ Colors ☐ Excessive	☐ Floa					
	pe benthic growth			☐ Brown	Orange	Gree					

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

☐ Potential (presence of two or more indicators)

1 Unlikely

☐ Obvious

☐ Suspect (one or more indicators with a severity of 3)

Section 1: Ba	ckgrou	ınd Data			<u></u>			- ·	·
Subwatershed:					Outfall ID:		10-		
Today's date:	b	-14-10			Time (Milit	tary):			
Investigators:	1	14ARD	M	IN	Form comp	leted by:			
Temperature (°F	?):	0.11	Raint	fall (in.): Last 24 hours:	0 Last 48 hour	rs: 0			
Latitutde: 235	8837.854	I	ongitude:		GPS Unit:		GPS	LMK#	
Camera: Nikon-					Photo #s:				
Land Use in Dra	inage Ai	rea (Check all that a	apply):						
Ď-Industrial	7				Open Sp	pace			•
Ultra-Urban	Resident	tial			☐ Institution	onal			:
Suburban Re	sidential				Other:				
Commercial		•			Known Indi	uspries:L	OHA TOWE	Zo.	
Section 2: Ou	tfall De		ge crabs, ivii	nnows, vegetation along c		rash on si	de of canal, paper and pi	astic.	
LOCATIO	N	MATER	(AL	SH	APE	2 1	DIMENSIONS (	IN.)	SUBMERGED
		□ RCP [	СМР	⊠ Circular	⊠ Single		Diameter/Dimensions:	*	In Water:
		□ PVC [	HDPE	☐ Eliptical	☐ Double		Diameter/Dimensions:		<b>℃</b> No □ Partially
Closed Pipe		√ Steel		Box	Triple				☐ Fully
		Other:	<del></del>	☐ Other:	Other:				With Sediment:
									Partially Fully
		☐ Concrete			•				
· 		☐ Earthen		☐ Trapezoid			Depth:	-	
Open drainag	ge	rip-rap		☐ Parabolic			Top Width:		
		Other:		Other:	•		Bottom Width:		
☐ In-Stream		(applicable when	collecting	samples)			<u> </u>		
Flow Present?	·.	Yes	M.No		n to Section 5				
Flow Description (If present)	1	☐ Trickle [	Moderate				**** ·		
Section 3: Qua	ntitati	ve Characteriz	zation					-	
				FIELD DATA FOR FL	OWING OUT	FALLS		· 3***	
P	ARAME	TER		RESULT		U	NIT	EQ	UIPMENT
□Flow #1		Volume				L	iter		
		Time to fill					Sec		
		Flow depth					In		
□Flow #2		Flow width	0, "			F	t, In		
	├──	Measured length	0' "	·		F	t, In		
	<u> </u>	Time of travel					Sec	2.,	
	Γemperat	ture		***			°F		
	pН	,	_	0.2.10		pН	Units	Test	strip/Probe
	Ammon	ia		•		<b>. p</b>	pm	. 1	est strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow? 
Yes Any

1-3)	3 – Noticeable from a	distance	3 - Clearly visible in	outfall flow	3 - Opaque	3 - Some; origin clear	sheen, suds, or floating sanitary materials)									** .	
RELATIVE SEVERITY INDEX (1-3)	- Davidy detected	casily detected	☐ 2 – Clearly visible in	sample bottle	□2-Cloudy	2 - Some; indications	possible suds or oil sheen)			COMMENTS		nd algae					f3)
REL	1 - Faint		☐ 1 — Faint colors in	sample bottle	1 – Slight cloudiness	1 - Few/slight: origin	not obvious		(9 uo			sediment and algae					licators with a severity o
DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas	her:	☐ Brown ☐ Gray ☐ Yellow	☐ Orange ☐ Red ☐ Other:	See severity	er, etc.) 🔲 Suds	n) 🗌 Other:		-Flowing Outfalls (If No, Skip to Section 6)	DESCRIPTION	Spalling, Cracking or Chipping   Peeling Paint Corrosion	☐ Flow Line ☐ Paint ☐ Other:	ssive 🔲 Inhibited	s Colors Floatables Oil Sheen Excessive Algae	n 🗌 Orange 📋 Green 🔲 Other:		indicators) Suspect (one or more indicators with a severity of 3)
,		☐ Sulfide ☐ Other:	□ Clear □ B	Green 🗆 O		Sewage (Toilet Paper, etc.)	Petroleum (oil sheen)		th Flowing and No: ted to flow present?	Present	S	vio 🗆 "	Excessive	Odors Suds	☐ Brown	ization	Potential (presence of two or more indicators)
CHECK if Present		].		]		E		nce due to low tide	dicators for Bo that are not rela	CHECK if Present						tfall Character	Potential (pres
INDICATOR	Odor		Color		Turbidity	Floatables	-Does not include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indicators for Both Flowing and Non-Flowin Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	√K Unlikely

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

☐ Potential (presence of two or more indicators)

☐ Obvious

 $\hfill \square$  Suspect (one or more indicators with a severity of 3)

Section 1. Dack	ground Data	. 15						
Subwatershed:	1.16			Outfal	I ID:	P 10		····
Today's date:	6-14-11	<b>'</b> >		Time (	(Military):			***************************************
Investigators:	R. MIN	<i>,</i>		Form	completed by:			
Temperature (°F):	, . ,	Rainf	all (in.): Last 24 hours	s: 0 Last 48	hours: 0			··· **
Latitutde: 23588	37.854	Longitude:		GPS L	Jnit:		GPS LMK #	
Camera: Nikon-				Photo	#s:			-
Land Use in Drain	age Area (Check all that	apply):						
☐Industrial				□Ор	en Space	•		
Ultra-Urban Re	esidential			☐ Ins	titutional	4.		÷
Suburban Resid	dential			Other:		A		
' Commercial	•			Knowi	n Industries: _	HLOHA	16	ver
Notes (e.g, origin	of outfall, if known): lar	ge crabs, Mii	nnows, vegetation along	canal is spa	rse, trash on si	de of canal, paper an	d plastic.	
LOCATION	MATER	IAL	SI	HAPE		DIMENSION	S (IN.)	SUBMERGED
	☐ RCP	□ СМР	Circular	Single	;	Diameter/Dimensio	ns:	In Water:
	☐ PVC	☐ HDPE	☐ Eliptical	☐ Doubl	е	3		VZ 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:		
	☐ Other:		☐ Other:			Bottom Width:	<b>-</b> .	
☐ In-Stream	(applicable when	n collecting s	samples)		· · · · · · · · · · · · · · · · · · ·		-	
Flow Present?	☐ Yes	-¶No	· · · · · · · · · · · · · · · · · · ·	kip to Section	n 5		·	
Flow Description (If present)	☐ Trickle	☐ Moderate	☐ Substantial					
Section 3: Quan	titative Characteri	zation						
			FIELD DATA FOR I	LOWING	OUTFALLS			
PAI	RAMETER		RESULT		U	NIT	EQ	UIPMENT
□Flow#1	Volume		······································		. I	iter		
	Time to fill					Sec		· · · · · · · · · · · · · · · · · · ·
Ĺ	Flow depth			·		In		
□Flow #2	Flow width	0' "			F	t, In		
<u> </u>	Measured length	0' "			F	t, In		
	Time of travel					Sec		
Tei	mperature	1	•			°F		
	pН					Units		t strip/Probe

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow? 
Yes SHNo

INDICATOR	CHECK if Present		· ·	DESCRIPTION				RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor	<b>.</b>	Sewage Sulfide	☐ Rancid/sour	our 🔲 Petroleum/gas	m/gas		🔲 1 — Faint	2 - Easily detected	3 Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Orange	Gray	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 -Does Not Include Trash!!	. 🗆	Sewage (Toilet Paper	Sewage (Toilet Paper, etc.)	.) Suds			☐ 1 – Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	ence 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	dicators for Bot s that are not relat	th Flowing a ted to flow p	ind Non-Flov resent?	wing Outfalls ] Yes Ano		(If No, Skip to Section 6)	ion 6)		
INDICATOR	CHECK if Present	resent		,	DESCRIPTION	NC		COMMENTS	s
Outfall Damage			Spalling, C	Spalling, Cracking or Chipping Corrosion		Peeling Paint			
Deposits/Stains			U Oily	☐ Flow Line ☐	□ Paint □	☐ Other:	sedimer	sediment and algae	
Abnormal Vegetation			☐ Excessive	☐ Inhibited					
Poor pool quality			☐ Odors ☐ Suds	☐ Colors ☐ Excessive Algae	☐ Floatables Algae	ss Oil Sheen		****	
Pipe benthic growth			☐ Brown	Orange	Green	Other:			
Section 6: Overall Outfall Characterization	ıtfa]] Characteri	zation					·		:

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

 $\hfill \square$  Potential (presence of two or more indicators)

N Unlikely

☐ Obvious

☐ Suspect (one or more indicators with a severity of 3)

Section 1: Bac	ckgrou	nd Data							
Subwatershed:	<del></del>				Outfall	ID:	2 10	· · ·	
Today's date:	60	14-10			Time (i	Military):			
Investigators:	K	-14-1D	N		Form co	ompleted by:			
Temperature (°F	"):		Rain	fall (in.): Last 24 hours:	0 Last 48	hours: 0			
Latitutde: 2358	3837.854		Longitude:		GPS Ur	nit:		GPS LMK #	ł:
Camera: Nikon-					Photo #	is:			
Land Use in Dra	inage Ar	rea (Check all tha	at apply):			<del></del>			
[X]Industrial					☐ Ope	en Space		•	
Ultra-Urban I	Resident	ial			☐ Insti	itutional			
Suburban Re	sidential				Other:_		A		<del></del>
Commercial					Known	Industries: _	D LOHA	78h	Ed _
Notes (e.g, orig			arge crabs, Mi	innows, vegetation along c	canal is spars	se, trash on si	de of canal, paper	and plastic.	
LOCATIO	N	MATE	RIAL	SH	IAPE		DIMENSIC	NS (IN.)	SUBMERGED
		□ RCP	□ СМР	Circular .	<b>Ç</b> ∕Single		Diameter/Dimens	sions:	In Water:
•		□ PVC	☐ HDPE	☐ Eliptical	☐ Double	;	6''		No ☐ Partially
Closed Pipe		S-Steel		□Box	☐ Triple				☐ Fully
	-	Other:		Other:	Other:				With Sediment:  INO INO INO INO INO INO INO INO INO IN
		☐ Concrete					<u> </u>		
		☐ Earthen		Trapezoid			Depth:		
Open drainag	je.	☐ rip-rap		☐ Parabolic			Top Width:		
		Other:		☐ Other:			Bottom Width: _		
In-Stream		· · · · · · · · · · · · · · · · · · ·					<u> </u>		
Flow Present?		(applicable wh	DKNo	·	ip to Section			· ·	<u> </u>
Flow Description (If present)		☐ Trickle	☐ Moderate		p to section	3	·		<del></del>
Section 3: Qua	ntitati	ve Charactei	rization						-
			<u> </u>	FIELD DATA FOR FL	LOWING C	<u>`</u>	· · · · · · · · · · · · · · · · · · ·	· · ·	-
P/	ARAME			RESULT	1 1		NIT	EC	QUIPMENT
□Flow#1		Volume	$-\!$	<del></del>			Liter	<u> </u>	
	<u> </u>	Time to fill	-	·		•	Sec	<del></del>	
	<u> </u>	Flow depth	<del></del>				In		***************************************
□Flow #2		Flow width	0, "				t, In		<del></del>
	<u> </u>	Measured length	0, "		<del></del>		t, In		
	L	Time of travel					Sec		
	remperat	ure					°F .		<del></del>
<del>-</del> .	pH •	-	<del></del>		1	-	Units		st strip/Probe
	Ammon	ia				r	nm		Test strip

EAMERS BATTIERS EMASS

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls  Are physical indicators that are not related to flow present? Yes Yoo INDICATOR CHECK if Present

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

☐ Potential (presence of two or more indicators)

女 Unlikely

□ Obvious

Suspect (one or more indicators with a severity of 3)

Section 1: Bac	ekgrou	ınd Data		·			0		
Subwatershed:					Outfall IE	): /	10-		· · ·
Today's date:		-14-10			Time (Mi	litary):	·-		
Investigators:	R	M	n/		Form con	pleted by:			
Temperature (°F	"):		Rain	fall (in.): Last 24 hours:	: 0 Last 48 ho	urs: 0			,
Latitutde: 2358	3837.854	1	ongitude:		GPS Unit	:		GPS LMK #	:
Camera: Nikon-		•			Photo #s:		· · · · ·		
Land Use in Dra	inage A	rea (Check all that a	apply):						
[Alndustrial					Open :	Space			
Ultra-Urban	Resident	tial			🔲 Institu	tional			
☐ Suburban Re	sidential		•		Other:				
<b>⊡</b> €commercial					Known In	dustries: _	Acodo	Ton	Ed.
Section 2: Out	fall De	escription		nnows, vegetation along		trash on si	de of canal, paper a	nd plastic.	
LOCATIO	N	MATER:			IAPE		DIMENSIO	NS (IN.)	SUBMERGED
			□ CMP □ HDPE	☐ Circular ☐ Eliptical	Single  Double		Diameter/Dimens	ions:	In Water: No Partially
Closed Pipe		Steel		Вох	☐ Triple				☐ Fully
7		Other:	<del></del>	☐ Other:	Other:	<del></del>			With Sediment:   No  Partially  □ Fully
☐ Open drainag	e	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:			Depth: Top Width: Bottom Width:		
In-Stream		(applicable wher	collecting	samules)	· · · · · · · · · · · · · · · · · · ·				
Flow Present?		☐ Yes	<u>~</u> • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	ip to Section 5	•			<del></del>
Flow Description (If present)			☐ Moderate	***					· · · · · · · · · · · · · · · · · · ·
Section 3: Qua	ntitati	ve Characteria	zation						•
				FIELD DATA FOR F	LOWING OU	TFALLS			
P	ARAME	TER		RESULT		U	NIT	EÇ	UIPMENT
□Flow#1		Volume				L	iter		
#1		Time to fill				S	Sec		
		Flow depth					In		
□Flow #2		Flow width	0, ,	,		F	t, In	-r-	
110W #Z	λ	leasured length	0, ,	,		F	, In		
		Time of travel				S	lec		3-m.a.v.
	remperat	ture					°F	1	
	pН					pН	Units	Tes	t strip/Probe
	Ammon	ia —		<del></del>		n	pm		Test strin

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow? 
Ves

(1-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	3 - Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)			S							
RELATIVE SEVERITY INDEX (1-3)	2 Easily detected	2 – Clearly visible in sample bottle	2 - Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		nd algae					f3)
REL	□ 1 – Faint	1 – Faint colors in sample bottle	1 - Slight cloudiness	☐ 1 — Few/slight; origin not obvious		on 6)			sediment and algae					licators with a severity o
NO.	um/gas	☐ Yellow ☐ Other:				ls to (If No, Skip to Section 6)	DESCRIPTION	nipping Peeling Paint	☐ Paint ☐ Other:		☐ Floatables ☐ Oil Sheen: Algae ☐ Other:	☐ Green ☐ Other:		Suspect (one or more indicators with a severity of 3)
DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Orange ☐ Red	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:		nd Non-Flowing Outfalls resent?   Yes		Spalling, Cracking or Chipping Corrosion	Oily Thow Line	Excessive Inhibited	Odors Colors C	☐ Brown ☐ Orange		_
CHECK if Present	☐ Sewage ☐ Sulfide	☐ ☐ Clear ☐ Green		Sewage (Toilet Paper	due to low tide	Section 5: Physical Indicators for Both Flowing and Non-Flowin Are physical indicators that are not related to flow present?	CHECK if Present						II Characterization	Potential (presence of two or more indicators)
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indi. Are physical indicators th	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	Unlikely P

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

Section 1: Ba	ckgrou	nd Data						
Subwatershed:					Outfall ID:	PER11-	1	
Today's date:	6	-14 -11	)		Time (Military)	:	_f	,
Investigators:	K	MIN			Form completed	i by:		
Temperature (°F	<sup>7</sup> ):		Rainf	all (in.): Last 24 hours:	0 Last 48 hours: 0			
Latitutde: 2358	3837.854	L	ongitude:	·	GPS Unit:		GPS LMK #	;
Camera: Nikon-					Photo #s:		·,	
Land Use in Dra	inage Ar	ea (Check all that a	pply):					
Industrial					Open Space			
Ultra-Urban	Resident	ial			☐ Institutional			:
Suburban Re	sidential				Other:			
∕⁄⊟ Commercial		•			Known Industri	es: #10HH	Tow	B
Notes (e.g, orig			e crabs, Mi	nnows, vegetation along c	anal is sparse, trash	on side of canal, paper	and plastic.	·
LOCATIO	N	MATERI	AL	SH	APE	DIMENSIC	NS (IN.)	SUBMERGED
		□ RCP [	□ СМР	[☑Circular	Single	Diameter/Dimen	sions:	In Water:
		□PVC [	HDPE	☐ Eliptical	☐ Double	8 "		™ No □ Partially □ Fully
Closed Pipe		<b>⊠</b> Steel		□Box	☐ Triple			Ť
	٠	Other:		☐ Other:	☐ Other:			With Sediment:
								☐ Partially ☐ Fully
		☐ Concrete						
_		Earthen		☐ Trapezoid		Depth:		
Open drainag	ge .	☐ гір-гар		Parabolic		Top Width:		
		☐ Other:		☐ Other:		Bottom Width: _		
☐ In-Stream		(applicable when	collecting	samples)				भिन्न व अन्य स्थाय स स्थाय स्थाय स्
Flow Present?		☐ Yes	-₩.No	If No, Skij	o to Section 5	,	· · · · · · · · · · · · · · · · · · ·	
Flow Description (If present)		☐ Trickle [	Moderate	☐ Substantial	· · · · · · ·	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
Santian 3. Ove	414 41	ve Characteriz	4			- <del></del>		
section 5: Qua	шшап	ve Characteriz	ation	FIELD DATA FOR FL	OWING OUTFAL	ıs		1
Ρ.	ARAME	TER		RESULT		UNIT	FC	UIPMENT
<del></del>	1	Volume				Liter		
Flow #1		Time to fill				Sec		
-		Flow depth		· · · · ·		In		,
□E1 #2		Flow width	0, "			Ft, In		
□Flow #2	N	feasured length	<u>0</u> , "	- <del> </del>	-	Ft, In		
	,	Time of travel				Sec		··· ,
	Γemperat	ure				°F		*
	pН					pH Units	Tes	t strip/Probe
	Ammon	ia				ppm		Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?

INDICATOR	CHECK if Present	. 14	DESCRIPTION	PTION			RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Pe ☐ Other:	Petroleum/gas		1 - Faint	2 - Easily detected	3 – Noticeable from a distance
Color		Clear Green	☐ Brown ☐ Gray ☐ Orange ☐ Red	i	Yellow	1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	erity		☐ 1 – Slight cloudiness	□ 2 - Cloudy	3-Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper,	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	ıds her:		1 – Few/slight; 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 influence due to low tide	ence due to low tide							
ection 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls are physical indicators that are not related to flow present?	ndicators for Botls that are not relat	h Flowing a ed to flow pu	nd Non-Flowing Ou resent?	g Outfalls es  X No	(If No, Skip to Section 6)	ion 6)	·	-
INDICATOR	CHECK if Present	resent		DESCR	DESCRIPTION		COMMENTS	S
Outfall Damage			Spalling, Cracking or Chipping Corrosion	or Chipping	Peeling Paint			
Deposits/Stains			☐ Oily ☐ Flow Line ☐ Paint	☐ Paint	Other:	sedim	sediment and algae	
Abnormal Vegetation			☐ Excessive ☐ Inhibited	ited				
Poor pool quality			Odors Colors Suds Excess	ive Alg	☐ Floatables ☐ Oil Sheen ae ☐ Other:			
Pipe benthic growth			☐ Brown ☐ Orange		Green Other:			

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

☐ Potential (presence of two or more indicators)

Section 6: Overall Outfall Characterization

T Unlikely

□ Obvious

Suspect (one or more indicators with a severity of 3)

Section 1: Ba	ckgrou	nd Data			<del></del>			<del></del>
Subwatershed:		, , , ,	<del>z</del>		Outfall ID:	P11-02		
Today's date:	6	-14-10 -min	<del></del>	;	Time (Militar	·	_	
Investigators:		- M.N		**	Form comple			<u>-</u>
Temperature (°F				nfall (in.): Last 24 hours:		: 0		
Latitutde: 2358			Longitude:		GPS Unit:		GPS LMK	¥:
Camera: Nikon-					Photo #s:			<del> </del>
	iinage Ar	rea (Check all tha	at apply);					
☐Îndustrial					Open Spa	ce		
Ultra-Urban	Resident	ial			Institution	al		
☐ Suburban Re					Other:	//		<del></del>
Commercial		• 			Known Indus	tries: <u>HOUH</u>	1 76	n Ea
Section 2: Out		· · · · · · · · · · · · · · · · · · ·	aige Ciaus, ivi	innows, vegetation along c	anai is spaise, uas	in on side of canal, pape	r and plastic.	
LOCATIO	N	MATE	RIAL	SH	APE	DIMENSI	ONS (IN.)	SUBMERGED
		RCP	□СМР	√⊈ €ircular	Single	Diameter/Dime	nsions:	In Water:
		□ PVC	☐ HDPE	☐ Eliptical	Double	6"	<del></del>	
Closed Pipe		Steel		□Вох	☐ Triple			☐ Fully
		Other:	<del></del>	Other:	Other:			With Sediment: No Partially Fully
🗋 Open drainag	ge	☐ Concrete ☐ Earthen ☐ rip-rap		☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:		
☐ In-Stream		Other:		1				
In-Stream Flow Present?		(applicable wh	•		~		· · · ·	
Flow Present: Flow Description (If present)		☐ Yes	☐ Moderate		p to Section 5	· · · · · · · · · · · · · · · · · · ·		
Section 3: Qua	ntitati	ve Characte	rization					·
				FIELD DATA FOR FL	OWING OUTF	ALLS		
, P.	ARAME			RESULT		UNIT	EC	QUIPMENT
□Flow #1		Volume				Liter		
		Time to fill				Sec		
	<u> </u>	Flow depth				In		· · · · · · · · · · · · · · · · · · ·
□Flow #2		Flow width	0'		-	Ft, In		<u>.</u> .
	<del></del>	leasured length	0' '			Ft, In		
		Time of travel				Sec	<del> </del>	
<u>-</u>	remperat	ure	<del></del>			°F	· · · · · · · · · · · · · · · · · · ·	
	pН	· · · · · · · · · · · · · · · · · · ·				pH Units	Те	st strip/Probe
	Ammon	ia		_		mag		Test strip

ppm

Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? \(\Boxed{\sqrt{T}}\) Yes \(\Boxed{\sqrt{X}}\) No

INDICATOR	CHECK if Present		DESCRIPTION	TION		<b>2</b>	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	Rancid/sour   Pet	☐ Petroleum/gas		1 – Faint	2 - Easily detected	3 – Noticeable from a distance
Color		Clear	☐ 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	rity		☐ 1 – Slight cloudiness	2-Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper	☐ Sewage (Toilet Paper, etc.) . ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	ds ner:		1 – Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	ence 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?	ndicators for Bot s that are not rela	th Flowing a ted to flow p	ind Non-Flowing Outfalls resent?		(If No, Skip to Section 6)	ion 6)		
INDICATOR	CHECK if Present	Present		DESCRIPTION	PTION		COMMENTS	50
Outfall Damage			Spalling, Cracking or Chipping Corrosion	or Chipping	Peeling Paint			
Deposits/Stains			Oily   Flow Line	Paint	Other:	sedimen	sediment and algae	
Abnormal Vegetation			☐ Excessive ☐ Inhibited	ited				
Poor pool quality			Odors Color	☐ Colors ☐ Floo	☐ Floatables ☐ Oil Sheen ae ☐ Other:			
Pipe benthic growth			☐ Brown ☐ Orange	ge 🔲 Green	een 🔲 Other:			
Section 6: Overall Outfall Characterization	utfall Characteri	zation	,					

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

Potential (presence of two or more indicators)

✓ Unlikely

☐ Obvious

☐ Suspect (one or more indicators with a severity of 3)

Section 1: Ba	ckgrou	ınd Data							
Subwatershed:					Outfall ID:	P	1/-		
Today's date:	A	- 1 6	14	-10	Time (Military	y):			
Investigators:		min			Form complete	ed by:	. ,		
Temperature (°F		<del>-</del>	Rain	fall (in.): Last 24 hours:	0 Last 48 hours:	0			
Latitutde: 2358	8837.854	L	ongitude:		GPS Unit:			GPS LMK #	
Camera: Nikon-	,				Photo #s:	···	"		
Land Use in Dra	inage A	rea (Check all that a	ply):						
🗹 Industrial					Open Space	е			
Ultra-Urban	Resident	ial			☐ Institutiona	ıl			
Suburban Re	sidential				Other:				
√ Commercial		•					flott.	7 16	aga
Notes (e.g, orig			crabs, Mi	nnows, vegetation along o	canal is sparse, trash	on side	e of canal, paper a	nd plastic.	
LOCATIO		MATERI	AL	SH	APE		DIMENSIO	NŜ (IN.)	SUBMERGED
· · · · ·		□ RCP [	СМР	Circular	[≱Single		Diameter/Dimensi		In Water:
		□ PVC [	HDPE	☐ Eliptical	☐ Double		4"		No ☐ Partially ☐ Fully
Closed Pipe		Steel Steel		Вох	☐ Triple	l			With Sediment:
		Other:	<del></del>	☐ Other:	Other:				With Sediment:
Open drainag	ge	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:		,	Depth: Top Width: Bottom Width:		
☐ In-Stream		(applicable when	a allo a tima	go lov)					
Flow Present?		Yes	Eoneeting Mo		ip to Section 5	e <sup>e</sup> e			· · · · · · · · · · · · · · · · · · ·
Flow Description (If present)	l		Moderate		p to section 5		<u></u>	<del></del>	
Section 3: Qua	ntitati	ve Characteriz	ation						
300000 O Qui		ve Characteriz	1 .	FIELD DATA FOR F	LOWING OUTFA	LLS			
P	ARAME	TER		RESULT		UN	IT .	EQ	UIPMENT
□Flow#1		Volume		, , <u>, , , , , , , , , , , , , , , , , </u>	· · · · · · · · · · · · · · · · · · ·	Lit			
		Time to fill				Se	c		
"		Flow depth				Iı	1		
□Flow #2		Flow width	0, "			Ft,	In		
□1 10W #2	N	leasured length	0, "			Ft,	In		
	<u> </u>	Time of travel				Se	ec .	<u>-</u>	· ·
	remperat	ture				• •]	7		-
	pН					pH U	Inits	Tes	t strip/Probe
	Ammon	ia				pp	m		Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?

X (1-3)	3 – Noticeable from a distance	3 ~ Clearly visible in outfall flow	3 – Opaque	(e.g., obvious oil sheen, suds, or floating sanitary materials)		10 mm	NTS							
RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	2 – Clearly visible in sample bottle	2-Cloudy	2 - Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		id algae					(3) $\square$ Obvious
REL		-Faint colors in sample bottle	1 - Slight cloudiness	☐ 1 — Few/slight; origin not obvious					sediment and algae					th a severity of
	1 - Faint	☐ 1 – Faint colors in sample bottle	□ 1-Sligh	□ 1 Few/ not obvious		ection 6)		aint			ıeen			indicators wi
	gas	☐ Yellow ☐Other:				(If No, Skip to Section 6)	DESCRIPTION	ing 🗀 Peeling Paint	uint Other:		☐ Floatables ☐ Oil Sheen gae ☐ Other:	☐ Green ☐ Other:		Suspect (one or more indicators with a severity of 3)
DESCRIPTION	our 🔲 Petroleum/gas	☐ Gray	See severity	Suds Other:		wing Outfalls Yes Etwo	[Q	Spalling, Cracking or Chipping Corrosion	☐ Flow Line ☐ Paint	Inhibited	☐ Colors ☐ Excessive Algae	☐ Orange	:	_
	Rancid/sour	☐ Brown		Sewage (Toilet Paper, etc.)		and Non-Flor		Spalling, C	□ Oily □	☐ Excessive	Odors Suds	☐ Brown		or more indica
	Sewage   Sulfide	Clear Green		Sewage (		oth Flowing a	CHECK if Present		]	]			rization	sence of two
CHECK if Present	□.				nce due to low tide	dicators for Be that are not rel	CHECK if						tfall Characte	Potential (presence of two or more indicators)
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	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?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	Á Unlikely □

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

Section 1: Ba	ckgrou	ınd Data							
Subwatershed:					Outfal	II ID: 🛮 🕜	il		
Today's date:	6-	14-10			Time	(Military):			
Investigators:	R	- MM			Form	completed by:			- <del>-</del> · ·
Temperature (°I	F):		Rain	fall (in.): Last 24 hours:	0 Last 48	3 hours: 0	,		
Latitutde: 235	8837.854	Lor	gitude:		GPS U	Jnit:		GPS LMK #	<del>!</del> :
Camera: Nikon-	•				Photo	#s:			
Land Use in Dra	ainage Ai	rea (Check all that app	ly):				· · · · · · · · · · · · · · · · · · ·		-
Industrial					□Ор	en Space			
Ultra-Urban	Resident	tial			☐ Ins	titutional			
🔲 Suburban Re	esidential	I			Other:		·-		
Commercial		•			Know	n Industries: _	ALOHA 1	Touch	
Notes (e.g, orig		· · · · · ·	erabs, Mi	nnows, vegetation along c	canal is spa	rse, trash on si	ide of canal, paper	and plastic.	
LOCATIO	N	MATERIA	L	SH	APE		DIMENSIO	ONS (IN.)	SUBMERGED
		□ RCP □	СМР	Circular	Single	;	Diameter/Dimen	sions:	In Water:
		□ PVC □	HDPE	☐ Eliptical	☐ Doubl	e	Diameter/Dimen		► No □ Partially
Closed Pipe		⊠.Steel		☐ Box	☐ Triple				☐ Fully
1	,	Other:	_	Other:	Other:				With Sediment: ☑ No ☐ Partially
□ Open drainag	ge	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:			Depth: Top Width: Bottom Width: _		☐ Fully
☐ In-Stream		(applicable when co	ollecting	samples)		: .			
Flow Present?		Yes	☐ No	If No, Ski,	p to Section	n 5	,		
Flow Description (If present)	1	Trickle	Moderate	Substantial					
Section 3: Qua	antitati	ive Characterizat	tion						<del></del>
~				FIELD DATA FOR FL	OWING	OUTFALLS		•	
р	ARAME	TER		RESULT		U	NIT	EC	UIPMENT
□Flow#1		Volume				. I	Liter		
		Time to fill					Sec		
		Flow depth				-	In		
□Flow #2		Flow width	0, ,			F	it, In		
	N	Aeasured length	0, ,	·		F	t, In		
· -		Time of travel					Sec		
·	Tempera	ture				,	°F		
	рН				_	pН	Units	Te	st strip/Probe
	Ammon	nia			ĺ	r	opm		Test strip

Subwatershed:	ckground Data		·	Outfall ID:	Pil	<del></del>	· · ·
Today's date:	1 -11+ 1			Time (Military)		<del>.</del>	
Investigators:	R. M.	<u> </u>	, , , , , , , , , , , , , , , , , , , ,	Form completed	-		
Temperature (°)	- 7		fall (in.): Last 24 hours	<u> </u>			
Latitutde: 235		Longitude:	idii (iii.). Babi B. ac	GPS Unit;		GPS LMK #	4.
Camera: Nikon-	<del></del> -			Photo #s:	<del>-</del>	OI O DIVINE	· ·
	ainage Area (Check all	that apply):	,				
□ Industrial		** •-		Open Space			
/ ☐ Ultra-Urban	Residential			☐ Institutional			
Suburban Re	esidential			Other:			:
[M]Commercial				Valor.	es: Acott	TOUB	1.
Notes (e.g, ori	gin of outfall, it known;	: large crabs, ivii	nnows, vegetation along	; canal is sparse, trasn (	on side of canal, paper	and plastic.	
Section 2: Ou	tfall Description				· · · · · · · · · · · · · · · · · · ·		· · · · · · · · ·
LOCATIO		TERIAL .	SI	HAPE	DIMENSIO	ONS (IN.)	SUBMERGED
8	.w □ RCP	СМР	Circular	[X Single	Diameter/Dimen		In Water:
; 1	□ PVC	HDPE	☐ Eliptical	Double	6"		⊠ No □ Partially
Closed Pipe	☐ Steel	<b></b>	Box	☐ Triple			Fully
7	— Other:		☐ Other:	Other:	ŀ		With Sediment:
		·····	Cinor.	Culor.			Partially
-	Concrete				· ·		☐ Fully
	-		☐ Trapezoid	1	Depth:		
🗌 Open drainas			☐ Parabolic		Top Width:	_	
	☐ rip-rap		☐ Other:		Bottom Width: _		
	Other:						
☐ In-Stream	(applicable	when collecting	samples)				
Flow Present?	Yes Yes	□ No	If No, Si	kip to Section 5	,		
Flow Description (If present)	Trickle	☐ Moderate	Substantial				
Section 3: Qua	antitative Charact	terization		: "			
			FIELD DATA FOR I	FLOWING OUTFAL	LS		
P	ARAMETER		RESULT		UNIT	EC	QUIPMENT
∏Flow#I	Volume				Liter		· /
	Time to fill				Sec		
	Flow depth				In		
□Flow #2	Flow width	0, ,,	·		Ft, In		
	Measured lengt	h <u>0</u> ' ''	,		Ft, In		
	Time of travel				Sec		
· 	Temperature				°F		
	pН	[			pH Units	Te:	st strip/Probe

ppm

Test strip

Ammonia

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?

(-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	3 - Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)									
RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	2 – Clearly visible in sample bottle	2-Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		nd algae				
REL	1 – Faint	1 - Faint colors in sample bottle	1 - Slight cloudiness	☐ 1 — Few/slight; origin not obvious		on 6)			sediment and algae				
DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:		ind Non-Flowing Outfalls resent?	DESCRIPTION	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	Oily Plow Line Paint Other:	☐ Excessive ☐ Inhibited	□ Odors       □ Colors       □ Floatables       □ Oil Sheen         □ Suds       □ Excessive Algae       □ Other:	☐ Brown ☐ Orange ☐ Green ☐ Other:	
CHECK if Present	Sewage Sulfide	☐ Clear		Sewage (Toilet Paper	e to low tide	ors for Both Flowing are not related to flow	CHECK if Present						Characterization
INDICATOR C	Odor	Color	Turbidity	Floatables -Does Not Include Trash!	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?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization

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

☐ Potential (presence of two or more indicators)

**☆** Unlikely

☐ Obvious

Suspect (one or more indicators with a severity of 3)

Section 1: Back	ground Data				<del>,</del>	·		····
Subwatershed:			<del></del>	Outfall	·	' [[		
Today's date:	6-14-1 RMN	0			Military):			
Investigators:					ompleted by	-		
Temperature (°F):			all (in.): Last 24 hour		hours: 0		T	<del> </del>
Latitutde: 235883	37.854	Longitude:		GPS U		·	GPS LMK #	f:
Camera: Nikon-		· · · · · · · · · · · · · · · · · · ·		Photo #	fs:			
	age Area (Check all tha	t apply):						
Industrial				□ Оре	en Space			
Ultra-Urban Re				☐ Inst	itutional			·
Suburban Resid	dential			Other:		1	10	
Commercial				Known	Industries: _	ACOH.	A TONG	w
Section 2: Outfa	of outfall, if known): la	arge craos, Mil	nnows, vegetation along	g canat is spar	se, trash on s	ide of canal, paper	and plastic.	
LOCATION	MATE	RIAL	S	НАРЕ		DIMENSIO	ONS (IN.)	SUBMERGED
	☐ RCP	□СМР	<b>⊠</b> Circular	Single		Diameter/Dimen	sions:	In Water:
	□ PVC	☐ HDPE	☐ Eliptical	☐ Double	;	12"		Mo ☐ Partially
Closed Pipe			Вох	☐ Triple				Fully
	☐ Other:		Other:	Other:				With Sediment:
		<del></del>						Partially Fully
	☐ Concrete							
	☐ Earthen		☐ Trapezoid			Depth:		
Open drainage	☐ rip-rap		Parabolic			Top Width:	<del>-</del> .	
	Other:		☐ Other:		•	Bottom Width: _		
☐ In-Stream	(applicable wh		samples)					
Flow Present?	₩_Yes	□ No		Skip to Section	. 5	,		
Flow Description		· · · · · · · · · · · · · · · · · · ·		p to Beetion		<del> </del>		
(If present)	Trickle	☐ Moderate	☐ Substantial	<del></del>				
Section 3: Quan	titative Characte,	rization					•	
			FIELD DATA FOR	FLOWING (	OUTFALLS		•	
PAI	RAMETER		RESULT		ι	INIT	E	QUIPMENT
□Flow#1 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Volume					Liter		
1.104 1.1	Time to fill					Sec		
_	Flow depth		·			In		
□Flow #2 —	Flow width	0, "			1	t, In		
	Measured length	<u>Ö</u> , "			I	t, In		
	Time of travel		·			Sec		
. Te	mperature				•	°F		
	pН				pl-	Units	Те	st strip/Probe
А	mmonia				1	opm		Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow? 
Yes KNo

(1-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	3 - Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)			ls.							
RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	☐ 2 – Clearly visible in sample bottle	2 - Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		nd algae					f3)
REI	□ 1 – Faint	☐ 1 – Faint colors in sample bottle	1 - Slight cloudiness	1 – Few/slight; origin not obvious		(9 uo			sediment and algae			٥		licators with a severity o
	n/gas	☐ Yellow ☐Other:				(If No, Skip to Section 6)	DESCRIPTION	ping   Peeling Paint	☐ Paint ☐ Other:		☐ Floatables ☐ Oil Sheen Igae ☐ Other:	☐ Green ☐ Other:		Suspect (one or more indicators with a severity of 3)
DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Orange ☐ Red	See severity	□ Sewage (Toilet Paper, etc.)    □ Suds     □ Petroleum (oil sheen)    □ Other:		Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	1	Spalling, Cracking or Chipping Corrosion	Oily   Flow Line	☐ Excessive ☐ Inhibited	Odors Colors Colors Suds Excessive Algae	☐ Brown ☐ Orange		
	Sewage Sulfide	☐ Clear		Sewage (Toilet Paper		h Flowing an ted to flow pre	resent						zation	ance of two or
CHECK if Present					nce due to low tide	dicators for Bot that are not relat	CHECK if Present						fall Characteri	Potential (presence of two or more indicators)
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	Unlikely

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

Obvious

☐ Suspect (one or more indicators with a severity of 3)

Section 1: Bac	ckgrou	ınd Data							
Subwatershed:					Outfall I	D: /	17		···
Today's date:	60	14-10			Time (M	(ilitary):			
Investigators:	ř	L, MIN	/		Form co	mpleted by:			
Temperature (°F	?):		Rainf	all (in.): Last 24 hours:	: 0 Last 48 h	ours: 0			
Latitutde: 2358	8837.854		Longitude:		GPS Uni	it:		GPS LMK #	;
Camera: Nikon-					Photo #s	:			
Land Use in Dra	inage Ar	rea (Check all that	apply):						•
Hndustrial					Open	Space			
Ultra-Urban	Résident	ial			☐ Institu	utional			t
☐ Suburban Re	sidential				Other:				
Commercial		1			Known I	ndustries: _	ALON	49 100	ren
Section 2: Out			Ige Claus, Iviii	nows, vegetation along o	Canar is Sparse	, ITASH OH SI	пе от сапат, рарег	and prastic.	
LOCATIO	N	MATER	RIAL	SH	IAPE		DIMENSIC	NS (IN.)	SUBMERGED
		□ RCP	☐ CMP	☑-Circular ☐ Eliptical	⊠Single  □ Double		Diameter/Dimens		In Water:  No □ Partially □ Fully
Closed Pipe		<b>∠</b> Steel		☐ Box	☐ Triple				
		Other:		Other:	Other: _				With Sediment:  No Partially Sully
☐ Open drainag	ge	Concrete Earthen rip-rap Other:		☐ Trapezoid ☐ Parabolic ☐ Other:	V		Depth: Top Width: Bottom Width: _		
☐ In-Stream		(applicable who	en collecting (	samples)			<u> </u>		
Flow Present?	<del>:</del>	Yes	Y⊒ No		ip to Section 5	<del></del>	<u></u>	<del></del>	
Flow Description (If present)			☐ Moderate		<i>p</i> 10 55511111				*
Section 3: Qua	ntitati	ve Character	ization						
	ADAME		·	FIELD DATA FOR F	LOWING OR	<u>.</u>			·
, F	ARAME	Volume		RESULT	<u> </u>		NIT	EQ	UIPMENT
☐Flow#1		Time to fill		······································			Liter	<u> </u>	
		Flow depth					Sec		
	<u> </u>	Flow width	<u>o</u> , "				In .		
□Flow #2	├ <del>-</del> `	Aeasured length	δ				t, In		
		Time of travel	T T				t, In		
	l Femperat		_				Sec		
	pH	.ure					°F		
	<u>-</u>					pn	Units	Tes	t strip/Probe
	Ammon	19	4				12.122		Pant stale

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow? 

Yes

No

INDICATOR	CHECK if Present		DES	DESCRIPTION	,		RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour	☐ Petroleum/gas	S	1 – Faint	2 - Easily detected	3 – Noticeable from a distance
Color		Clear Creen	☐ Brown ☐ Orange	☐ Gray	☐ Yellow ☐ Other:	☐ 1 — Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			Se	See severity		☐ 1 – Slight cloudiness	2-Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper	, etc.)	Suds		1 – Few/slight; origin not obvious	☐ 2 ~ Some; indications of origin (e.g., possible suds or oil shen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	ence due to low tide							
Section 5: Physical Indicators for Both Flowing and Non-Flowin Are physical indicators that are not related to flow present?	idicators for Bot s that are not relat	th Flowing a	nd Non-Flowing resent?	g Outfalls es 💪 No	(If No, Skip to Section 6)	tion 6)		
INDICATOR	CHECK if Present	resent		DES	DESCRIPTION		COMMENTS	
Outfall Damage			Spalling, Crac	Spalling, Cracking or Chipping Corrosion	g 🔲 Peeling Paint			
Deposits/Stains			Oily   Flow Line	Line   Paint	t Other:	sediment	sediment and algae	
Abnormal Vegetation			☐ Excessive ☐	☐ Inhibited			ļ	
Poor pool quality			Odors Suds	☐ Colors ☐ Excessive Algae	Floatables Oil Sheen			
Pipe benthic growth			☐ Brown ☐	☐ Orange [	☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	ıffall Characteri:	zation						

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

☐ Potential (presence of two or more indicators)

T Unlikely

☐ Obvious

 $\hfill \square$  Suspect (one or more indicators with a severity of 3)

Section 1: Ba	ckgrou	ınd Data						
Subwatershed:					Outfall ID:	PIL		
Today's date:	(4	9-14-1	0		Time (Military	): ·		_
Investigators:	R	mi	1/		Form complete	d by:		
Temperature (°F	F):			fall (in.): Last 24 hours; (	0 Last 48 hours: (	)	·	
Latitutde: 2358	8837.854		Longitude:		GPS Unit:		GPS LMK #	l:
Camera: Nikon-				77.14	Photo #s:			
Land Use in Dra	inage Ar	rea (Check all that	apply);					
✓Industrial					Open Space	•		
Ultra-Urban	Resident	ial .			☐ Institutiona	1		
Suburban Re	sidential				Other:			
Commercial		•			Known Industr	ies: <u>A</u> <u>Lo</u>	AA ()	TONER
Notes (e.g, orig			rge crabs, Mi	nnows, vegetation along ca	anal is sparse, trash	on side of canal, paper	and plastic.	
LOCATIO		MATER	RIAL	SH/	APE	DIMENSIC	NS (IN.)	SUBMERGED
		RCP	□СМР	<b>E</b> Circular	Single	Diameter/Dimen		In Water:
		□ PVC	☐ HDPE	☐ Eliptical	Double	_6''	<del></del>	No ☐ Partially ☐ Fully
Closed Pipe		<b>★</b> Steel		□ Box	☐ Triple			
		Other:		Other:	☐ Other:			With Sediment:  MNo ☐ Partially ☐ Fully
		☐ Concrete						
_		☐ Earthen		☐ Trapezoid		Depth:		
Open drainag	ţe	☐ rip-rap		☐ Parabolic		Top Width:	<del>-</del>	
		Other:		Other:		Bottom Width: _	·	
☐ In-Stream		(applicable whe	n collecting	samples)				
Flow Present?		☐ Yes	No.	If No, Skij	to Section 5	,		
Flow Description (If present)		☐ Trickle	☐ Moderate	Substantial				
Section 3: Qua	ntitati	ve Character	ization					
			,	FIELD DATA FOR FL	OWING OUTFA	LLS		
P	ARAME	TER		RESULT		UNIT	EC	QUIPMENT
□Flow#1		Volume				Liter		
		Time to fill				Sec		
		Flow depth				In ·		
□Flow #2		Flow width	<u>0</u> ' "			Ft, In	-	
	M	Aeasured length	<u>0</u> , "	'		Ft, In	·	·
	<u> </u>	Time of travel				Sec		· • • • • • • • • • • • • • • • • • • •
7	remperat	ure				°F		
	pН					pH Units	Tes	st strip/Probe
	Ammon	ia				ppm		Test strip

(If No. Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? \(\superbold{\subset}\) Yes \(\epsilon\) No

(1-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	3 - Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)										
RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	2 – Clearly visible in sample bottle	□2~Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		nd algae					f3)   Obvious
REI	1 – Faint	1 – Faint colors in sample bottle	1 – Slight cloudiness	☐ 1 — Few/slight; origin not obvious		ion 6)			sediment and algae					dicators with a severity o
Z	ım/gas	☐ Yellow ☐ Other:				ls 5 (f/No, Skip to Section 6)	DESCRIPTION	ipping Peeling Paint	☐ Paint ☐ Other:		☐ Floatables ☐ Oil Sheen Algae ☐ Other:	☐ Green ☐ Other:		Suspect (one or more indicators with a severity of 3)
DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Orange ☐ Red	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:		Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?		Spalling, Cracking or Chipping Corrosion	☐ Oily ☐ Flow Line ☐	☐ Excessive ☐ Inhibited	Odors Colors Colors Suds Excessive Algae	☐ Brown ☐ Orange		Potential (presence of two or more indicators)
	Sewage   Sulfide	☐ Clear		Sewage	api	Both Flowing related to flow	CHECK if Present						terization	resence of two
CHECK if Present					uence due to low ti	Indicators for ors that are not	СНЕСК						Outfall Charac	☐ Potential (p.
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	

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

Section 1: Bac	kgrou	nd Data						
Subwatershed:					Outfall ID:	P12-	01	
Today's date:	6-	-14-11	· · · · · · · · · · · · · · · · · · ·		Time (Military)			
Investigators:		, , ,			Form completed	i by:		
Temperature (°F	):		Rainf	all (in.): Last 24 hours:	0 Last 48 hours: 0			
Latitutde: 2358	837.854		Longitude:		GPS Unit:		GPS LMK #	:
Camera: Nikon-					Photo #s:			-
Land Use in Drai	inage Ar	ea (Check all that	apply):					
☐ Industrial					Open Space			
Ultra-Urban I	Resident	ial			Institutional			-
Suburban Res	sidential				Other:			——A—
Commercial		•			Known Industrie	es: SPLKI	no Co	T-115/HAZT
Notes (e.g, original origina			ge crabs, Mir	nnows, vegetation along c	anal is sparse, trash o	on side of canal, pape	BCOC	URN ON KING DRAIN
LOCATIO		MATER	IAL	SH	APE	DIMENSI	ONS (IN.)	SUBMERGED
		RCP	□СМР	Circular	Single	Diameter/Dime		In Water:
		□PVC	☐ HDPE	☐ Eliptical	Double	6"		MO No ☐ Partially
Closed Pipe		☐ Steel		Вох	☐ Triple		<del></del>	Fully
77'		Other:		☐ Other:	☐ Other:			With Sediment:
		<del>                                    </del>		Canor.	Oaler.			☑ No ☐ Partially ☐ Fully
		☐ Concrete						
		Earthen	,	☐ Trapezoid		Depth:		
Open drainage	e	☐ rip-rap		Parabolic		Top Width:	_	
		Other:		☐ Other:	•	Bottom Width:		
☐ In-Stream		(applicable whe	n collecting	yamnlas)				
Flow Present?		Yes	No.		o to Section 5	<del></del>		
Flow Description (If present)			☐ Moderate		To Section 5			
Section 3: Qua	ntitati	ve Characteri	zation				<del></del>	· · · · · · · · · · · · · · · · · · ·
ection 5. Qui	11010101	ve character		FIELD DATA FOR FL	OWING OUTFAL	LS		
P/	ARAME	TER		RESULT		UNIT	EQ	UIPMENT
DElaw#1		Volume				Liter	<u></u>	
∏Flow#1		Time to fill				Sec		· · · · · · · · · · · · · · · · · · ·
		Flow depth				In		<u>, , , , , , , , , , , , , , , , , , , </u>
□Flow #2		Flow width	0, "			Ft, In		
	M	leasured length	0, "	, <u></u> .		Ft, In		
		Time of travel		<u> </u>		Sec		
T	emperat	ture				°F		
	pН					pH Units	Tes	t strip/Probe
	Ammon	ia	-			ppm	•	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?  Xes	ndicators for Flo	owing Outfalls flow?  \( \text{Yes} \)	ills Only es 🗌 No (If No, Skip to Section 5)		A.	
INDICATOR	CHECK if Present	· ————————————————————————————————————	DESCRIPTION	REL	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ I — Faint	2 - Easily detected	3 – Noticeable from a distance
Color		Clear	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity		·	See severity	☐ 1 – Slight cloudiness	2-Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper	etc.) 🗆 Suds	☐ 1 — Few/slight; origin not obvious	<ul> <li>2 - Some; indications of origin (e.g., possible suds or oil sheen)</li> </ul>	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	ence due to low tide					
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	ndicators for Bot s that are not rela	th Flowing a ted to flow p	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls  Are physical indicators that are not related to flow present?	(9 u		
INDICATOR	CHECK if Present	Present	DESCRI		COMMENTS	S
Outfall Damage			Spalling, Cracking or Chipping Peeling Paint Corrosion			
Deposits/Stains			□ Oily □ Flow Line □ Paint □ Other:	sediment and algae	nd algae	
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:			
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	utfall Characteri	ization				

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

☐ Potential (presence of two or more indicators)

Unlikely

☐ Obvious

☐ Suspect (one or more indicators with a severity of 3)

Section 1: Ba	ckgrou	ınd Data							
Subwatershed:					Out	fall ID:		· · · · · · · · · · · · · · · · · · ·	····
Today's date:		<u> </u>		-	Tim	e (Military):			
Investigators:		1			For	n completed by	:		
Temperature (°F	?):	7	Rainf	all (in.): Last 24 h	ours: 0 Last	48 hours: 0			N. Committee
Latitutde: 2358	8837.854	Lon	gitude:		GPS	Unit:		GPS LMK #	, , ,
Camera: Nikon-					Pho	o #s:			
Land Use in Dra	iinage Ai	rea (Check all that app	ly):				7 ,		
☐ Industrial						Open Space	V C5	SEL	•
Ultra-Urban	Resident	tial	,		☐ I	nstitutional	1.1/	04	211
☐ Suburban Re	sidential				Oth	er:	- · ·	<u> </u>	7.11
☐ Commercial			$\overline{}$			wn Industries: _	Doin	1 50h	SLINING
Notes (e.g, orig	in of out	fall, if known): large	rabs, Mi	πnows, vegetation al	ong canal is s	parse, trash on s	ide of canal, paper	and plastic.	
! 				\	/ r	<i>y.</i> 0	CON	TAIN	n ENT
Section 2: Out	tfall De	escription			/				
LOCATIO	N	MATERIA	L ;		SHAPE	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	DIMENSI	ONS (IN.)	SUBMERGED
		□ RCP □	СМР	☐ Circular /	☐ Sing	le	Diameter/Dimer	nsions:	In Water:
		□PVC · □	HDPE	☐ Eliptical	☐ Doı	ble			☐ No ☐ Partially
Closed Pipe		☐ Steel		□вох	☐ Trip	le			Fully
	•	Other:	_	Other:	☐ Oth	er:			With Sediment: ☐ No ☐ Partially
				/ . \					Fully
		Concrete	/	/ ☐ Trapezoid			Depth:		
Open drainag	• 4	☐ Earthen		☐ Parabolic					
☐ Open di anag	;c	☐ rip-rap				-	Top Width:		
·		Other:		Other:			Bottom Width:		
☐ In-Stream		(applicable when co	llecting	samples)	\	*			[Sensitivi marketati esti kasunana
Flow Present?		☐ Yes	□ <b>%</b>	If No	, Skip to Sect	ian 5	,	•	
Flow Description (If present)	ı	Trickle	Moderate	☐ Substantial	<del></del>				
Section 3: Oua	ntitati	ve Characterizat	ion /				· · · · · · · · · · · · · · · · · · ·		
<u> </u>			/-	FIELD DATA FO	R FLOWIN	OUTFALLS			
, P.	ARAME	TER	//	RESULT		<del>-                                    </del>	INIT	EQ	UIPMENT
		Volume				1 1	Liter .		
∏Flow#I		Time to fill			ì	1	Sec		
		Flow depth				1	In		
☐Flow #2		Flow width	<u>0</u> ' "		j' ·	\ I	Ft, In		
I IVW #Z	N	leasured length	<u>0</u> ' "			ļ	t, In		
		Time of travel					Sec		
7	Гетрега	ture					°F		
	pН					pН	Units	Tes	t strip/Probe
	Ammon	ia —	]	<del></del>			nun .		Cest strin

	(1-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	3 - Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)			S							
	RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	2 – Clearly visible in sample bottle	2 - Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		d algae					(3) Obvious
	REL		-Faint colors in sample bottle	1 – Slight cloudiness	☐ 1 — Few/slight; origin not obvious				:	sediment and algae					ith a severity of
		□ 1 – Faint	☐ I — Faint colors in sample bottle	gils – I 🗆	1 – Few/		Section 6)	· · ·	Paint			heen r:	1	<u>-</u>	e indicators w
(If No, Skip to Section 5)	DESCRIPTION	ur 🗌 Petroleum/gas	☐ Gray ☐ Yellow ☐ Red ☐ Other:	See severity	Suds		ring Outfalls Yes □ No (If No, Skip to Section 6)	DESCRIPTION	Spalling, Cracking or Chipping   Peeling Paint Corrosion	☐ Flow Line ☐ Paint ☐ Other:	☐ Inhibited	☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Excessive Algae ☐ Other:	☐ Orange ☐ Green ☐ Other:		tors) Suspect (one or more indicators with a severity of 3)
falls Only Yes	1	☐ Rancid/sour	☐ Brown ☐ Orange		Sewage (Toilet Paper, etc.)		and Non-Flow present?		Spalling, C		☐ Excessive	Odors Suds	☐ Brown		☐ Potential (presence of two or more indicators)
Flowing Outf		Sewage   Sulfide	Clear Green		☐ Sewage	de	Both Flowing elated to flow	CHECK if Present						erization	esence of two
ndicators for ators Present in t	CHECK if Present		Ü			ience due to low ti	ndicators for rs that are not 1	CHECK						utfall Charac	] Potential (p
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indicators for Both Flowing and Non-Flowin Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	☐ Unlikely

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

Section 1: Bac	kgrou	nd Data							
Subwatershed:				<u></u>	Outfall	ID:	19-0	7	
Today's date:	. م)	-14-10			Time (	Military):	·	•	
Investigators:	1	Min	/		Form c	ompleted by:			
Temperature (°F)	):			fall (in.): Last 24 hours	s: 0 Last 48	hours: 0			
Latitutde: 23588	837.854	Lor	ngitude:		GPS U	nit:		GPS LMK#	:
Camera: Nikon-		7.4.			Photo #	s:			
Land Use in Drai	inage Ar	ea (Check all that app	oly):						
🔼 Industrial		•			□Оре	n Space			
Ultra-Urban R	Resident	ial			🗀 Inst	itutional			
☐ Suburban Res	idential				Other:				
		,			Known	Industries: _			
Notes (e.g, original section 2: Outs			crabs, Mi	nnows, vegetation along	canal is spar	e, trash on si	de of canal, paper	and plastic.	
LOCATION		MATERIA	L	SI	HAPE		DIMENSI	ONS (IN.)	SUBMERGED
		□ RCP □	СМР	Circular	⊠.Single		Diameter/Dimer	nsions:	In Water:
		□ PVC □	HDPE	☐ Eliptical	☐ Double	;	24	<i>((</i>	☐ No ☐ Partially
Closed Pipe		☐ Steel		Вох	☐ Triple				Fully
	÷	Other: Coh	10	Other:	Other:				With Sediment:
		/ · · · · · · · · · · · · · · · · · ·	<del></del>		<b>— -</b>				Partially Fully
		Concrete			.1				
		☐ Earthen		☐ Trapezoid			Depth:		
🗌 Open drainage	e	☐ rip-rap		☐ Parabolic			Top Width:		
				☐ Other:			Bottom Width:	·	
In-Stream		Other:	II : a 45 m ca			• .			
In-Stream. Flow Present?	<del></del> -	(applicable when c	ollecting :			<u></u>	-		
		Yes	- SKT-NO	If No, SE	kip to Section	5	•		
Flow Description (If present)		☐ Trickle ☐	Moderate	Substantial					
Section 3: Quar	ntitati	ve Characteriza	tion				<del>,,,,,</del>		
		1		FIELD DATA FOR F	FLOWING (	OUTFALLS			· .
PA	ARAME	TER		RESULT		U	NIT	EC	UIPMENT
		Volume				I	Liter		2 1
□Flow#1		Time to fill					Sec		
		Flow depth				."	In		
□Flow #2		Flow width	<u>0</u> ' "			F	t, In		
	N	deasured length	<u>0</u> ' "			F	t, In		
		Time of travel	_				Sec		
T	emperat	ure				*	°F		
	pН	<del></del>				pН	Units	Tes	t strip/Probe
,	Ammon	ia				r	pm		Test strin

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow? 
Yes ZNo

INDICATOR	CHECK if Present		DESCRIPTION	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	RELATIVE SEVERITY INDEX (1-3)	(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 in sample bottle	2 – Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbidity			See severity	☐ 1 — Slight cloudiness	2-Cloudy	3 - Opaque
Floatables -Does Not Include Trash!		Sewage (Toilet Paper	<ul><li>□ Sewage (Toilet Paper, etc.)</li><li>□ Suds</li><li>□ Petroleun (oil sheen)</li><li>□ Other:</li></ul>	☐ 1 — Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	ance due to low tide					
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	idicators for Bot that are not relat	h Flowing an ed to flow pr	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls  Are physical indicators that are not related to flow present?   Testion 6)	ction 6)		
INDICATOR	CHECK if Present	resent	DESCRIPTION		COMMENTS	ß
Outfall Damage			Spalling, Cracking or Chipping   Peeling Paint	int		
Deposits/Stains			Oily Telow Line Paint Other:	sedimen	sediment and algae	
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	en		
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:			

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

☐ Potential (presence of two or more indicators)

Section 6: Overall Outfall Characterization

Vnlikely

☐ Obvious

 $\hfill\square$  Suspect (one or more indicators with a severity of 3)

Section 1: Bac	kgrou	nd Data		···	····			
Subwatershed:					Outfall ID:	19-09		<u> </u>
Today's date:	6	-14-TD			Time (Milita	ıry):		
Investigators:		- N11	I		Form compl	eted by:		
Temperature (°F				all (in.): Last 24 hours:	0 Last 48 hours	s: 0		· · · · · · · · · · · · · · · · · · ·
Latitutde: 2358	837.854	·	Longitude:		GPS Unit:	-	GPS LMK #	ł:
Camera: Nikon-	,				Photo #s:	•		
	inage Ar	ea (Check all that	apply):					
∄ Industrial					Open Spa	ace		
Ultra-Urban I	Resident	ial			Institutio	nal ,		
Suburban Res	sidential				Other:			<u> </u>
Commercial		·			Known Indu	stries:		·
Section 2: Out					allai is spaise, au	sh on side of canal, paper	and prastic.	
LOCATIO	N	MATER	RIAL	SHA	APE	DIMENSIO	NS (IN.)	SUBMERGED
		RCP	□СМР	☐ Gircular	⊠-Single	Diameter/Dimen	sions:	In Water:
		□PVC	HDPE	☐ Eliptical	Double	18"		No Partially
Closed Pipe		☐ Steel		Box	☐ Triple			Li Fully
,		Other:	ONL	☐ Other:	Other:	_		With Sediment:
		ľ		i				Partially Fully
		☐ Concrete						
		Earthen		☐ Trapezoid		Depth:		
Open drainag	e	☐ rip-rap		Parabolic		Top Width:	_	
		☐ Other:		Other:		Bottom Width: _	<del></del> ;	
☐ In-Stream		(applicable who	n collecting s	samples)				
Flow Present?		☐ Yes	¥€ No		o to Section 5			
Flow Description (If present)		☐ Trickle	☐ Moderate	Substantial		·		
Section 3: Qua	ntitati	ve Character	ization					
			4	FIELD DATA FOR FL	OWING OUT	ALLS		
P/	ARAME	TER		RESULT		UNIT	E	QUIPMENT
□Flow #1		Volume	_			Liter		
		Time to fill		*		Sec		
		Flow depth				In		
∏Flow #2		Flow width	0' "	· <u>-</u>		Ft, In		
		leasured length	0' "			Ft, In		
		Time of travel				Sec		no
	emperat	ure		<del></del>		°F		
· · · · · · · · · · · · · · · · · · ·	pН			1		pH Units	Те	st strip/Probe
	Ammon	ia				ppm		Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	ndicators for Flo	wing Outfa	lls Only es KNo (f/No, Skip to Section 5)			
INDICATOR	CHECK if Present		DESCRIPTION	REI	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor	Π.	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 in sample bottle	2 – Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbidity			See severity	☐ 1 - Slight cloudiness	2-Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper	<ul> <li>□ Sewage (Toilet Paper, etc.)</li> <li>□ Suds</li> <li>□ Petroleum (oil sheen)</li> <li>□ Other:</li> </ul>	☐ 1 — Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	ence due to low tide					
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	ndicators for Bot s that are not relat	th Flowing a	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls  Are physical indicators that are not related to flow present?	(9 uo		
INDICATOR	CHECK if Present	Present	DESCRIPTION		COMMENTS	S
Outfall Damage			Spalling, Cracking or Chipping Peeling Paint Corrosion			
Deposits/Stains			Oily Plow Line Paint Other:	sediment and algae	nd algae	
Abnormal Vegetation			Excessive Inhibited		, ;	
Poor pool quality			□ Odors    □ Colors    □ Floatables    □ Oil Sheen     □ Suds    □ Excessive Algae    □ Other:			
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	ıtfall Characteri	zation				

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

 $\hfill \square$  Potential (presence of two or more indicators)

Unlikely

☐ Obvious

 $\hfill \square$  Suspect (one or more indicators with a severity of 3)

Subwatershed:	ckground Data	<del></del>		Outfall ID:	DAIG	<del></del>	<del></del>
Today's date:	G -111 -1			Time (Military):	P019		
Investigators:	6-14-1 L.M.	<u>υ</u>		Form completed			···- · · · · · · · · · · · · · · · · ·
Temperature (°F	<u> </u>		all (in.): Last 24 hours:		<del></del>		
Latitutde: 2358		Longitude:		GPS Unit:	· · · · ·	GPS LMK #	<i>į</i> .
Camera: Nikon-				Photo #s:	·	010 2	·
Land Use in Dra	inage Area (Check all th	nat apply):			<del></del>		
<b></b> Industrial				Open Space			
Ultra-Urban	Residential			☐ Institutional			
☐ Suburban Re	sidential						
Commercial	•			Known Industries			
<i>j</i>		large crabs, Min	nnows, vegetation along c				
Section 2: Out	tfall Description  MAT	ERIAL	SH	APE	DIMENSIO	ONS (IN.)	SUBMERGED
	□ RCP	СМР	Circular	Ş⊫Single	Diameter/Dimen		In Water:
	PVC	☐ HDPE	☐ Eliptical	Double	12		No Partially
Closed Pipe	☐ Steel	<del></del>	□Box	☐ Triple			Fully
_ ,	⊠ Other: ∠	OWC	☐ Other:	☐ Other:			With Sediment; ☑No
							Partially Fully
	☐ Concrete		☐ Trapezoid		Depth:		
T O-am duainac	☐ Earthen						
🗌 Open drainag	ge rip-rap		☐ Parabolic	•	Top Width:		
	Other:		Other:		Bottom Width: _	<del></del>	
In-Stream	(applicable w	hen collecting	samples)	<del>! *'. '</del> .	<u> </u>		<u> विविधित समिति विवश्य समिति विद्याम्य स्थ</u>
Flow Present?	☐ Yes	<b>½</b> N₀	If No, Ski	o to Section 5	,		· · · · · · · · · · · · · · · · · · ·
Flow Description (If present)	☐ Trickle	☐ Moderate	Substantial	· · ·			
ection 3: Qua	intitative Characte	erization	·				
-			FIELD DATA FOR FL	OWING OUTFALL	S		
P	ARAMETER	r	RESULT		UNIT	EC	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		•
	Temperature				°F		
	рН		•••		pH Units	Tes	st strip/Probe

ppm

Test strip

Ammonia

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	ndicators for Flo	owing Outfa	falls Only Yes H-No		(If No, Skip to Section 5)				
INDICATOR	CHECK if Present			DESCRIPTION			RELA	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor	Ο.	Sewage Sulfide	☐ Rancid/sour ☐ Other:	our 🗌 Petroleum/gas	m/gas			2 - Easily detected	3 – Noticeable from a distance
Color		Clear	☐ Brown ☐ Orange	☐ Gray	☐ Yellow ☐ Other:	1 - Faint colors in sample bottle	lors in ttle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity				See severity		☐ 1 – Slight cloudiness	oudiness	2-Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (	Sewage (Toilet Paper, etc.)	.) Suds		☐ 1 – Few/slight; origin not obvious	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)
Notes: Potential tidal influence due to low tide	ence 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?	ndicators for Bot s that are not rela	th Flowing steed to flow p	and Non-Flor	wing Outfalls		(If No, Skip to Section 6)			
INDICATOR	CHECK if Present	Present		-	DESCRIPTION			COMMENTS	5
Outfall Damage			Spalling,	Spalling, Cracking or Chipping Corrosion		Pecling Paint	_		
Deposits/Stains				☐ Flow Line ☐ I	□ Paint □ Other:		sediment and algae	d algae	
Abnormal Vegetation			☐ Excessive	☐ Inhibited					
Poor poof quality			Odors Suds	Colors Colors Excessive Algae	Floatables	Oil Sheen			
Pipe benthic growth			☐ Brown	Orange	☐ Green ☐	Other:			
Section 6: Overall Outfall Characterization	ıtfall Characteri	ization	!	!					

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

☐ Potential (presence of two or more indicators)

如 Unlikely

☐ Obvious

☐ Suspect (one or more indicators with a severity of 3)

Section 1: Bac	ckgrou	ind Data			<del>- г</del>	77		
Subwatershed:					Outfall ID:	619		·
Today's date:	<u></u> <u>b</u>	-14-10	)		Time (Military			
Investigators:		- MIN			Form complete			ALCO CONTRACTOR OF THE PROPERTY OF THE PROPERT
Temperature (°F	<del></del>		<del></del>	fall (in.): Last 24 hours:		)	· ··	
Latitutde: 2358			Longitude:	<del></del>	GPS Unit:		GPS LMK	#:
Camera: Nikon-		·			Photo #s:			
Land Use in Dra	iinage Ar	rea (Check all th	at apply):					
🗹 Industrial					Open Space	e		
Ultra-Urban	Resident	ial			☐ Institutiona	1		:
☐ Suburban Re	sidential				Other:		<del>-</del>	<del> </del>
Ď Commercial		•			Known Industr	ies:		<u> </u>
Section 2: Out			arge craos, Mi	nnows, vegetation along o	anai is spaise, trasi	on side of canal, pape	r and plastic.	
LOCATIO	N	MATE	RIAL	SH	APE	DIMENSI	ONS (IN.)	SUBMERGED
		RCP	□ СМР	Circular	Single	Diameter/Dime		In Water:
		□ PVC	☐ HDPE	☐ Eliptical	☐ Double	12	<u>''</u>	<b>□</b> No □ Partially
Closed Pipe		Steel		Вох	☐ Triple			☐ Fully
	•	Other:	<del></del>	Other:	Other:			With Sediment:  AD No  Partially  Fully
···········		☐ Concrete			l			
		☐ Earthen		☐ Trapezoid		Depth:		
Open drainag	ge	∏ rip-rap		☐ Parabolic		Top Width:	_	
		☐ Other:		Other:		Bottom Width:	<del></del>	
☐ In-Stream		(applicable wl		samples)		<u> </u>	· .	
Flow Present?	*****	☐ Yes	₩ No		p to Section 5			
Flow Description (If present)	<u> </u>	☐ Trickle	☐ Moderate	Substantial				
Section 3: Qua	ntitati	ve Characte	rization					
			<u> </u>	FIELD DATA FOR F	OWING OUTFA	LLS		
P.	ARAME	TER		RESULT		UNIT	E	QUIPMENT
□Flow #1		Volume				Liter		
		Time to fill				Sec	···	
	<u> </u>	Flow depth				In	<del></del> -	
□Flow #2	<u> </u>	Flow width	0' "			Ft, In		
		feasured length	0' "			Ft, In		
7		Time of travel		** MINT		Sec		
	Femperat ————————————————————————————————————					°F		at athin (Duc I -
	Ammon					pH Units	1e	st strip/Probe

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

(1-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	3 – Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)			S					
RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	2 – Clearly visible in sample bottle	2-Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		nd algae			-
REI	1 – Faint	1 - Faint colors in sample bottle	1 - Slight cloudiness	☐ 1 – Few/slight; origin not obvious		ion 6)			sediment and algae			
	n/gas	☐ Yellow ☐Other:				(If No, Skip to Section 6)	DESCRIPTION	ping   Peeling Paint	☐ Paint ☐ Other:		☐ Floatables ☐ Oil Sheen ☐ Other:	Green Other
DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Orange ☐ Red	See severity	<ul> <li>Sewage (Toilet Paper, etc.) . □ Suds</li> <li>□ Petroleum (oil sheen) □ Other:</li> </ul>		Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?		Spalling, Cracking or Chipping Corrosion	□ Oily □ Flow Line □	☐ Excessive ☐ Inhibited	Odors Colors Colors Suds Excessive Algae	Rrown Crange
	Sewage Sulfide	☐ Clear		Sewage (Toilet Paper		th Flowing a	Present					
CHECK If Present					ice due to low tide	licators for Bo that are not rela	CHECK if Present					
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth

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

☐ Potential (presence of two or more indicators)

Section 6: Overall Outfall Characterization

X Unlikely

□ Obvious

 $\hfill \square$  Suspect (one or more indicators with a severity of 3)

Section 1: Bac	ckgrour	nd Data								
Subwatershed:	· .			<del></del>	•	Outfall	ID:	19		
Today's date:	6	~14-i	D			Time (M	(ilitary):			
Investigators:	1/2	-, m	n	-	]	Form co	mpleted by:			
Temperature (°F	):	•	Rainf	all (in.): Last 24 ho	urs: 0 L	Last 48 l	ours: 0			
Latitutde: 2358	8837.854		Longitude:		(	GPS Un	it:		GPS LMK	#:
Camera: Nikon-				-,,-	]	Photo #s	s:			
Land Use in Dra	inage Are	a (Check all tha	t apply):							
🖆 Industrial					[	Oper	ı Space			
Ultra-Urban l	Residentia	al -			[	☐ Instit	tutional			
Suburban Res	sidential			,	. (	Other: _			******	
Commercial					F	Known l	Industries: _			
Notes (e.g, orig			arge crabs, Mi	nows, vegetation alo	ong canal	is sparse	e, trash on si	de of canal, paper	and plastic.	
LOCATIO		MATE	RIAL		SHAPE			DIMENSI	ONS (IN.)	SUBMERGED
		RCP	□СМР	⊠ Circular		Single		Diameter/Dimen		In Water:
		□ PVC	HDPE	☐ Eliptical		Double	ì	24		⊠ No □ Partially
Closed Pipe	1	☐ Steel	_	☐ Box		Triple			<del></del>	Fully
htt.	ľ		011/	Other:		-			÷	With Sediment:
		K Onici. <u>C</u>	2000			Other: _				№ No □ Partially
	-	<b>—</b>								Fully
		Concrete		☐ Trapezoid				Depth:		
Open drainag	e	Earthen		Parabolic	*			Top Width:		
— ·		☐ rip-rap		☐ Other:				Bottom Width:		
		Other:	<u> </u>					DOUGHI WHUI		
🗌 In-Stream		(applicable wh	en collecting	samples)	·					
Flow Present?		☐ Yes	[ <b>∑</b> £No	If No,	Skip to S	Section .	5	,		
Flow Description (If present)		☐ Trickle	☐ Moderate	☐ Substantial						
Section 3: Qua	ntitativ	e Character	ization							
				FIELD DATA FO	R FLOW	ING O	UTFALLS		, ,	
P/	ARAMET	ER		RESULT			U	NIT	E	QUIPMENT
□r1#1		Volume					1	iter		
∏Flow #1		Time to fill	1				:	Sec		
		Flow depth					·	In		
□Flow #2		Flow width	<u>0</u> ' "				F	t, In		
	М	easured length	<u>0</u> , "				F	t, In		
	Т	ime of travel						Sec .		
T	Temperatu	ire						°F .		
	pН			-			pН	Units	Те	st strip/Probe

ppm

Test strip

Ammonia

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?

(1-3)	3 – Noticeable from a distance	3 - Clearly visible in outfall flow	3 - Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)			S						
RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	2 - Clearly visible in sample bottle	□2-Cloudy	2 – Some, indications of origin (e.g., possible suds or oil sheen)			COMMENTS		ınd algae				
REI	1 – Faint	1 - Faint colors in sample bottle	☐ 1 – Slight cloudiness	1 - Few/slight; origin not obvious		ion 6)			sediment and algae				
	gas	☐ Yellow ☐Other:				(If No, Skip to Section 6)	DESCRIPTION	ing 🔲 Peeling Paint	unt Other:		☐ Floatables ☐ Oil Sheen gae ☐ Other:	☐ Green ☐ Other:	
DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Orange ☐ Red	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:		nd Non-Flowing Outfalls esent?	IQ	Spalling, Cracking or Chipping Cracking or Chipping	Oily   Flow Line   Paint	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Suds ☐ Excessive Algae	☐ Brown ☐ Orange	
	Sewage Sulfide	☐ Clear ☐ Green		Sewage (Toilet Paper		th Flowing an	resent				-		zation
CHECK If Present					nce due to low tide	dicators for Bot that are not rela	CHECK if Present						tfall Characteri
INDICATOR	Odor	Color	Turbidity	Fioatables -Does Not Include Trashi!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indicators for Both Flowing and Non-Flowin Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization

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

☐ Potential (presence of two or more indicators)

**四** Unlikely

☐ Obvious

☐ Suspect (one or more indicators with a severity of 3)

Section 1: Ba	ckground	d Data			•		٠	
Subwatershed:	<u></u>			· · · · · · · · · · · · · · · · · · ·	Outfall ID:	PIA		<del></del>
Today's date:	6-1	4-0	1		Time (Military)	:		
Investigators:	R	mi	n		Form completed	i by:		***
Temperature (°F		· · ·		all (in.): Last 24 hours:	0 Last 48 hours: 0			
Latitutde: 235	8837.854		Longitude:		GPS Unit:		GPS LMK #	<u> </u>
Camera: Nikon-					Photo #s:		·	
Land Use in Dra	ainage Area	(Check all tha	ıt apply):					
Industrial					□ Ореп Ѕрасе			
Ultra-Urban	Residential				☐ Institutional			
Suburban Re	esidential				Other:			
Commercial				•		es:		
Notes (e.g, orig			arge crabs, Mia	mnows, vegetation along c	anal is sparse, trash	on side of canal, paper	and plastic.	
LOCATIO		MATE	RIAL	SH	APE	DIMENSIO	ONS (IN.)	SUBMERGED
·-		RCP	СМР	Circular	<b>M</b> Single	Diameter/Dimen	sions:	In Water:
		□ PVC	HDPE	☐ Eliptical	☐ Double	24		Mo □ Partially
Closed Pipe		Steel		☐ Box	Triple			Fully
	Ę	<b>7</b> Other:	`0N()	Other:	Other:			With Sediment: No Partially Fully
□ Open drainag	ge C	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width: _		
☐ In-Stream	(2	applicable wh	en collecting s	samples)	1		:	[ब्रह्मवर्षन्यन्यस्य विद्यास्य विद्यास्य विद्यास्य विद्यास्य विद्यास्य विद्यास्य विद्यास्य विद्यास्य विद्यास्य
Flow Present?		Yes	<b>⊠</b> .No	If No, Ski	p to Section 5			
Flow Description (If present)	· -	] Trickle	☐ Moderate	☐ Substantial				
Section 3: Qua	antitative	Charactei	rization					
		÷ •		FIELD DATA FOR FL	OWING OUTFAL	LS		
P	ARAMETE	R		RESULT		UNIT	EÇ	QUIPMENT
□Flow#1		Volume				Liter	-	
□ riow #1	Т	ime to fill				Sec		
	F	low depth				In		
☐Flow #2	F	low width	<u>0</u> ' "			Ft, In	•	
□F10₩ #2	Mea	sured length	0, "			Ft, In		
	Tir	ne of travel				Sec		
	Temperature	e		·		°F		
	pН					pH Units	Tes	st strip/Probe

ppm

Test strip

Ammonia

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?

(1-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	3 - Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)			S						
RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	2 – Clearly visible in sample bottle	2-Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		nd algae				
REL	☐ 1 — Faint	1 - Faint colors in sample bottle	☐ 1 – Slight cloudiness	☐ 1 — Few/slight; origin not obvious		on 6)			sediment and algae				
DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:		Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls  Are physical indicators that are not related to flow present?	DESCRIPTION	Spalling, Cracking or Chipping Peeling Paint Corrosion	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	☐ Brown ☐ Orange ☐ Green ☐ Other:	
CHECK if Present	Sewage 🗀 Sulfide	☐ Clear		Sewage	e due to low tide	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	CHECK if Present						all Characterization
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indi Are physical indicators th	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization

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

☐ Potential (presence of two or more indicators)

Unlikely

□ Obvious

 $\hfill \square$  Suspect (one or more indicators with a severity of 3)

Section 1: Bac	ckgrou	nd Data			<del></del>	·		. Cauma
Subwatershed:					Outfall ID:	Pid	·	
Today's date:	<u>_</u>	-U4-1	<u> </u>		Time (Militar			
Investigators:		-MN			Form complet			
Temperature (°F				nfall (in.): Last 24 hours:	· · · · · · · · · · · · · · · · · · ·	0		
Latitutde: 2358		·	Longitude:	···	GPS Unit:		GPS LMK	#: 
Camera: Nikon-					Photo #s:	·		
	iinage Ar	rea (Check all tha	ıt apply):					•
Industrial					Open Spac	ee		
Ultra-Urban I	Resident	ial			☐ Institution	al		
Suburban Re	sidential				Other:	<del></del>		
Commercial		F		•	Known Indust	ries:	·	
Section 2: Out			irge craus, ivi	innows, vegetation along c	canai is sparse, trasi	h on side of canal, paper	and plastic.	
LOCATIO	N	MATE	RIAL	SH	APE	DIMENSIO	ONS (IN.)	SUBMERGED
		□ RCP	□СМР	<b>⊡</b> ©ircular	Single	Diameter/Dimen	sions:	In Water:
		□PVC	☐ HDPE	☐ Eliptical	Double	<u> </u>		No ☐ Partially
Closed Pipe		Steel		Вох	Triple			Fully
<i>7</i> ~		7 ☐ Other:		Other:	☐ Other:			With Sediment:
								Partially  Fully
		☐ Concrete						
		☐ Earthen		☐ Trapezoid	1	Depth:		
Open drainag	je	☐ rip-rap		☐ Parabolic		Top Width:		
		Other:		Other:		Bottom Width: _		
☐ In-Stream		(applicable wh	en collecting	(somples)				
Flow Present?		Yes	<u>K</u> yNo		p to Section 5		<u> </u>	
Flow Description	I	Trickle	☐ Moderat		p to became o	2	=	·
(If present)							·	
Section 3: Qua	ıntitati	ve Character	rization					
			· · ·	FIELD DATA FOR FL	LOWING OUTFA	LLS		
P	ARAME	TER		RESULT	· ·	UNIT	E	QUIPMENT
∏Flow #1		Volume				Liter		
	<u> </u>	Time to fill				Sec		
		Flow depth				In		
□Flow #2		Flow width	0,	*****		Ft, In	CHE	
	<del> </del>	leasured length	0,	**		Ft, In		
	L	Time of travel				Sec		
T	Temperat	ure		<del> </del>		۰F		
	pН					pH Units	Te	st strip/Probe
	Ammon	ia				ppm		Test strip

	RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected distance	2 – Clearly visible in a sample bottle outfall flow	2-Cloudy	of origin (e.g., possible suds or oil sheen)  2 - Some; indications			COMMENTS						
	RELATIVE	☐ 1 - Faint ☐ 2 -	1 - Faint colors in sample sample	☐ 1 – Slight cloudiness ☐ 2 -	□ 1 – Few/slight; origin not obvious		(9			sediment and algae		7		
Outfalls Only  Yes K No (If No, Skip to Section 5)	DESCRIPTION	□ Sewage □ Rancid/sour □ Petroleum/gas □ □ Other:	□ Clear         □ Brown         □ Gray         □ Yellow           □ Green         □ Orange         □ Red         □ Other:	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ ☐ Petroleum (oil sheen) ☐ Other: ☐ ☐		Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls  Are physical indicators that are not related to flow present?	t DESCRIPTION	Spalling, Cracking or Chipping Peeling Paint Corrosion	Oily Flow Line Paint Other.	☐ Excessive ☐ Inhibited	Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	☐ Brown ☐ Orange ☐ Green ☐ Other:	
dicators for Flowing	CHECK if Present					ace due to low tide	licators for Both Flo that are not related to	CHECK if Present						
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?   No	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	

☐ Obvious

 $\square$  Suspect (one or more indicators with a severity of 3)

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

☐ Potential (presence of two or more indicators)

以 Unlikely

Section 1: Bac	ckgrou	nd Data							
Subwatershed:					Outfall ID	: 4	14		
Today's date:	6	-14-10	,		Time (Mil	itary):	- *******		
Investigators:		-14-10 R.Min			Form com	pleted by:			
Temperature (°F				fall (in.): Last 24 hours:	: 0 Last 48 hou	urs: 0			
Latitutde: 2358	3837.854		Longitude;		GPS Unit:			GPS LMK #	l:
Camera: Nikon-					Photo #s:				
Land Use in Dra	inage Ar	rea (Check all that	t apply):				-		-
☐ Industrial					Open S	pace			
🔲 Ultra-Urban I	Resident	ial			☐ Institut	ional	•		
☐ Suburban Res	sidential				Other:	<del></del>			<del></del>
☐ Commercial					Known Ind	iustries: _			·
Notes (e.g, origi			rge crabs, Mii	nnows, vegetation along c	canal is sparse, t	trash on si	de of canal, paper	and plastic.	
LOCATIO	N	MATER	RIAL	SH	IAPE	. <u> </u>	DIMENSIC	ONS (IN.)	SUBMERGED
		RCP	□СМР	Circular	Single	·	Diameter/Dimen	sions:	In Water:
_		□ PVC	HDPE	☐ Eliptical	☐ Double		Diameter/Dimen		☐ No ☐ Partially
Closed Pipe		☑ Steel		Вох	☐ Triple				Fully
		Other:	<del></del>	Other:	Other:				With Sediment:
		☐ Concrete	<del></del>		<u>.L</u>				
ı		☐ Earthen		☐ Trapezoid	8		Depth:		
Open drainage	,e	☐ rip-rap		Parabolic			Top Width:	_	
		Other:	_	☐ Other:	-		Bottom Width: _		
☐ In-Stream		(applicable whe	en collecting	samples)		•	-		<u>मित्रान्त्रमात्रम् अस्तरम् अस्तरम् स्तरम्</u>
Flow Present?		☐ Yes	⊠No	If No, Ski	ip to Section 5		,	<u> </u>	
Flow Description (If present)		Trickle	` ☐ Moderate					- 151.1	
Section 3: Qua	ntitati	ve Character	ization						
				FIELD DATA FOR FL	LOWING OUT	ΓFALLS		(	
P/	ARAME	TER		RESULT		U	NIT	EÇ	UIPMENT
□Flow#1		Volume		-		I	Liter		
	<u> </u>	Time to fill					Sec		
		Flow depth					In		
□Flow #2		Flow width	0' "			F	t, In		
	M	leasured length	0, "	-		F	t, In		
_		Time of travel					Sec		
T	l'emperat	ure					°F		
	pН					pН	Units	Tes	st strip/Probe
	Ammon	ia				r	onm	-	Test strin

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow? 
\[ \subseteq Yes \]

(1-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	☐ 3 – Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)			S							-
RELATIVE SEVERITY INDEX (1-3)	2-Easily detected	2 – Clearly visible in sample bottle	2-Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS	1718	nd algae					(f3)
REI	1 12	☐ 1 — Faint colors in sample bottle	☐ 1 – Slight cloudiness	☐ 1 – Few/slight; origin not obvious					sediment and algae					vith a severity o
	1 - Faint	1 – Fair	ils −1 □	☐ 1 – Few not obvious		Section 6)		aint			leen			e indicators v
		☐ Yellow ☐ Other:				(If No, Skip to Section 6)	DESCRIPTION	☐ Peeling Paint	Other:		☐ Floatables ☐ Oil Sheen ae ☐ Other:	☐ Green ☐ Other:		Suspect (one or more indicators with a severity of 3)
DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	Gray [	See severity	) Suds		wing Outfalls ] Yes & No	DESC	Spalling, Cracking or Chipping Corrosion	☐ Flow Line ☐ Paint	☐ Inhibited	☐ Colors ☐ Excessive Algae	☐ Orange	-	
	Rancid/su	☐ Brown ☐ Orange		☐ Sewage (Toilet Paper, etc.) ☐ Petroleum (oil sheen)	!	nd Non-Flov resent?		Spalling, C		☐ Excessive	Odors Suds	☐ Brown		or more indica
	Sewage Sulfide	Clear		Sewage (Toilet Paper		<b>th Flowing</b> a ited to flow p	Present						ization	ence of two
CHECK if	□.				ince due to low tide	dicators for Bo	CHECK if Present						ıtfall Character	Potential (presence of two or more indicators)
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	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?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	Unlikely

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

Section 1: Ba	ckgrou	nd Data							
Subwatershed:				<del>= 1                                   </del>	Outfa	1 ID: 🥜	14		
Today's date:	,14-	10			Time	(Military):			
Investigators:	L	Min			Form	completed by:		,	
Temperature (°F	<sup>7</sup> ):		Rainf	all (in.); Last 24 hours	: 0 Last 48	3 hours: 0			
Latitutde: 235	8837.854	]	Longitude:		GPS U	Jnit:		GPS LMK #	<del></del>
Camera: Nikon-					Photo	#s:		W # 112	
Land Use in Dra	iinage Ai	ea (Check all that	apply);						
☑ Industrial					□Ор	en Space			
Ultra-Urban	Resident	ial			☐ Ins	titutional			
☐ Suburban Re	sidential				Other:				·
Commercial					Know	n Industries: _			
Notes (e.g, orig	·		ge crabs, Mi	nows, vegetation along	canal is spa	rse, trash on si	de of canal, paper a	nd plastic.	
LOCATIO	N	MATER	IAL	SI	НАРЕ		DIMENSIO	NS (IN.)	SUBMERGED
rft a		□ PVC	☐ CMP	Circular  Eliptical	□ Doubl	e	Diameter/Dimens	ions:	In Water:  No Partially Fully
Closed Pipe		□ Steel		Вох	☐ Triple				With Sediment:
		Other:		Other:	Other:				₩ No Partially Fully
☐ Open drainag	ge	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:			Depth: Top Width: Bottom Width:		
☐ In-Stream		(applicable wher	n collecting :	samples)	•			······································	विकास सम्बद्धाः स्थापना स्थापना स्थापना स्थापना स्थापना स्थापना स्थापना स्थापना स्थापना स्थापना स्थापना स्थापन
Flow Present?		Yes	ZEN∘	If No, Sk	kip to Section	n 5	,		
Flow Description (If present)	l	☐ Trickle	☐ Moderate	Substantial					
Section 3: Qua	ntitati	ve Characteri:	zation						
				FIELD DATA FOR F	LOWING	OUTFALLS			
Р	ARAME	TER		RESULT	1	U	NIT	EQ	UIPMENT
□Flow#1		Volume				I	Liter		
☐110 W #1		Time to fill					Sec		
		Flow depth					In		
☐Flow #2		Flow width	0, "			F	t, In		
handle 1-0-11 Hand	N	Measured length	0, "			F	t, In		
	•	Time of travel					Sec	·	
-	remperat	ture					°F		
	pН					pН	Units	Tes	t strip/Probe
	Ammon	ia				, p	pm		Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

INDICATOR	CHECK if Present		Q	DESCRIPTION	•		RELATIVE SEVERITY INDEX (1-3)	(1-3)
	[ ]	Sewage	Rancid/sour	ur   Petroleum/gas	/gas			
Odor	] <sub>.</sub>	Sulfide	Other:			☐ 1 — Faint	2 - Easily detected	☐ 5 ~ Noticeable from a distance
Color	Ε	□ Clear	Brown	Gray	☐ Yellow	1 - Faint colors in	2 – Clearly visible in	3 - Clearly wieihle in
10000		Green	Orange	Red	□Other:	sample bottle	sample bottle	outfall flow
Turbidity				See severity		☐ 1 – Slight cloudiness	2-Cloudy	3 - Opaque
Floatables	. [	Sewage (1	Sewage (Toilet Paper, etc.)	Suds		1 - Few/elight origin		3 - Some; origin clear
-Does not include Trash!!		Petroleum (oil sheen)	ι (oil sheen)	Other:		not obvious	possible suds or oil sheen)	(e.g., oovious on sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	ence due to low tide				T			
Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	ndicators for Bot s that are not relat	th Flowing a	nd Non-Flow.	ring Outfalls Yes 7 No	(If No, Skip to Section 6)	ion 6)		
INDICATOR	CHECK if Present	resent		Ω	DESCRIPTION		COMMENTS	S
Outfall Damage			Spalling, C	Spalling, Cracking or Chipping Corrosion	ping 🔲 Peeling Paint			
Deposits/Stains			Oily DF	☐ Flow Line ☐ Paint	aint 🔲 Other:	sedir	sediment and algae	
Abnormal Vegetation			☐ Excessive	☐ Inhibited				
Poor pool quality			Odors Suds	Colors Cagae	☐ Floatables ☐ Oil Sheen Igae ☐ Other:			
Pipe benthic growth			☐ Brown	☐ Orange	Green Other:			
Section 6: Overall Outfall Characterization	ıtfall Characteri	zation			•			
☐ Unlikely	Potential (presence of two or more indicators)	nce of two o	r more indicat		Suspect (one or more indicators with a severity of 3)	dicators with a sever	ity of 3)	

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

Section 1: Bac	ckgrou	nd Data	/				<u></u> <u></u>		
Subwatershed:					Outfal	I ID: P	19		
Today's date:	R	MATE	bull	4-10	Time (	(Military):			
Investigators:	R	- MIN			Form	completed by:			
Temperature (°F			Rainf	fall (in.): Last 24 hours	: 0 Last 48	B hours: 0			
Latitutde: 2358	8837.854	Lon	gitude:		GPS U	Jnit;		GPS LMK #	<del>!</del> :
Camera: Nikon-			•		Photo	#s:			· · · ·
Land Use in Dra	inage Ar	rea (Check all that appl	y):						,
[20] Industrial					□Ор	en Space			•
Ultra-Urban I	Resident	ial		•	☐ Ins	titutional		·	f
Suburban Re	sidential				Other:			<del></del>	·
Commercial					Knowi	n Industries: _			
Section 2: Out	tfall De	escription		nnows, vegetation along					· · · · · · · · · · · · · · · · · · ·
LOCATIO	N	MATERIAL		<del></del>	HAPE		DIMENSIC	NS (IN.)	SUBMERGED
			CMP HDPE	Circular	∰Single  ☐ Doubl		Diameter/Dimen	sions:	In Water:  ☑No ☐ Partially ☐ Fully
Closed Pipe		Steel		Box	☐ Triple				With Sediment:
		Other:		Other:	Other:				With Sediment:    →No  → Partially  → Fully
□ Open drainag	je	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:	·	☐ Trapezoid ☐ Parabolic ☐ Other:			Depth: Top Width: Bottom Width: _		
☐ In-Stream		(applicable when co	llecting	samples)		1 1			
Flow Present?		☐ Yes	Z No	If No, Sk	kip to Section	n 5	,		
Flow Description (If present)		☐ Trickle ☐ N	Moderate	Substantial					
Section 3: Qua	nt <u>i</u> tati	ve Characterizat	ion	•		•			
				FIELD DATA FOR F	LOWING	OUTFALLS			
P.	ARAME	TER		RESULT		U	NIT	EÇ	QUIPMENT
□Flow#1	_	Volume				I	Liter		
		Time to fill		-			Sec		N.
		Flow depth					In		
☐Flow #2		Flow width	0, "			· F	t, In		
L_110 11 11 2	N	deasured length	<u>o</u> . "			F	t, In		
		Time of travel					Sec		
7	Temperat	ure					°F		
	pН					pН	Units	Tes	st strip/Probe
	Ammon	ia				р	ppm		Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?  Xes	ndicators for Flo	owing Outfa	falls Only Yes [J/No] (Jf/No, Skip to Section 5)			
INDICATOR	CHECK if Present		DESCRIPTION		RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor	<b>□</b> .	Sewage Sulfide	:	1 – Faint	2- Easily detected	3 – Noticeable from a distance
Color		Clear Green	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ ○ Other:	☐ 1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	1 – Slight cloudiness	2-Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (	☐ Sewage (Toilet Paper, etc.) . ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 — Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	ence due to low tide					
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	idicators for Bot s that are not relat	th Flowing a ted to flow p	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls  Are physical indicators that are not related to flow present?	Section 6)		
INDICATOR	CHECK if Present	Present	DESCRIPTION		COMMENTS	S
Outfall Damage			Spalling, Cracking or Chipping Paint Corrosion	aint		
Deposits/Stains			☐ Oily ☐ Flow Line ☐ Paint ☐ Other.	sedime	sediment and algae	
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	neen		
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	ıtfall Characteri	ization				

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

☐ Potential (presence of two or more indicators)

T Unlikely

☐ Obvious

 $\hfill \square$  Suspect (one or more indicators with a severity of 3)

Section 1: Bac	kgrou	nd Data		· · · · · · · · · · · · · · · · · · ·				<u> </u>	
Subwatershed:					Outfall	I ID:	19		<del></del>
Today's date:	(e -	-14-10			Time (	Military):			
Investigators:		-min			Form c	completed by:			
Temperature (°F	):		Rainfa	all (in.): Last 24 hours	: 0 Last 48	hours: 0			
Latitutde: 2358	837.854		Longitude:		GPS U	nit:		GPS LMK #	#: 
Camera: Nikon-					Photo #	#s:			· ·
Land Use in Dra	inage Ar	ea (Check all that	apply):		_				<b>4.</b>
☐ Industrial					□Оре	en Space	÷		
Ultra-Urban l	Resident	ial			☐ Inst	titutional			
Suburban Res	sidential				Other:				
Commercial		, 			Known	ı Industries: _			
Section 2: Out	fall De		rge crabs, Min	mows, vegetation along	canal is spar	se, trash on si	de of canal, paper	and plastic.	
LOCATIO	N	MATER	RIAL	SI	HAPE		DIMENSI	ONS (IN.)	SUBMERGED
		□ RCP	☐ CMP	Eliptical	Single  Double		Diameter/Dimer	isions:	In Water:  No Partially
Closed Pipe		☐ Steel		□Вох	☐ Triple				Fully
		P-Other: Co	<u>v</u> L	☐ Other:	Other:	•			With Sediment:
□ Open drainag	e	Concrete Earthen rip-rap Other:		☐ Trapezoid           ☐ Parabolic           ☐ Other:			Depth: Top Width: Bottom Width: _		
☐ In-Stream		(applicable whe		omniac)	<del></del>			·····	
Flow Present?		☐ Yes	™ concerning 3.		kip to Section	, ,	- <del> </del>		• .
Flow Description (If present)		☐ Trickle	☐ Moderate	☐ Substantial	14 T				
Section 3: Qua	ntitati	ve Character	ization		-				
		- (		FIELD DATA FOR F	LOWING	OUTFALLS			
Pi	ARAME	TER		RESULT		U	NIT	E(	QUIPMENT
□Flow #1		Volume				I	Liter		
		Time to fill				,	Sec		
		Flow depth					In		
□Flow #2		Flow width	0, "			F	t, In		-
L110.11.12	M	leasured length	0, "		•	F	t, In		
		Time of travel					Sec		
7	emperat	ure					°F		
	pН					pН	Units	Te	st strip/Probe
	Ammon	ia					nm		Test strip

	RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected distance	☐ 2 – Clearly visible in sample bottle outfall flow	ss	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		sediment and algae					erity of 3)
		☐ 1 – Faint	1 - Faint colors in sample bottle	☐ 1 – Slight cloudiness	1 – Few/slight; origin not obvious		tion 6)		tt.	sec		q			ndicators with a sev
falls Only $Y \in X$ (If No. Skip to Section 5)	DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	See severity	<ul><li>□ Sewage (Toilet Paper, etc.)</li><li>□ Suds</li><li>□ Petroleum (oil sheen)</li><li>□ Other:</li></ul>		Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls  Are physical indicators that are not related to flow present?	DESCRIPTION	Spalling, Cracking or Chipping Paint Corrosion	Oily   Flow Line   Paint   Other:	☐ Excessive ☐ Inhibited	Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other.	☐ Brown ☐ Orange ☐ Green ☐ Other:		Potential (presence of two or more indicators)
r Flowing Outfa	if t	Sewage	Clear		Sewage	v tide	r Both Flowing	CHECK if Present						ıcterization	(presence of two
al Indicators fo	CHECK if Present					influence due to low	ol Indicators fo ators that are no	CHEC			noi	,	th	Outfall Chara	☐ Potential (
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	Unlikely

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

Section 1: Back	kgrou	ind Data		4,8					
Subwatershed:					Outfall I	D:	, 119		
Today's date:					Time (M	(ilitary): 🗜	,		
Investigators:		-			Form con	mpleted by:			
Temperature (°F):			Rain	fall (in.): Last 24 hours	: 0 Last 48 h	ours: 0			
Latitutde: 23588	37.854	L	ongitude:		GPS Uni	it:		GPS LMK #	:
Camera: Nikon-				W-27	Photo #s				
Land Use in Drain	iage Ai	rea (Check all that a	pply):	•	To a to the	•	-		
☐ Industrial					Open	Space			
Ultra-Urban R	esident	ial			☐ Institu	utional			
Suburban Resi	dential			•	Other:		<u>-</u>		
☐ Commercial									
Notes (e.g, origing) Section 2: Outf			e crabs, Mi	iπnows, vegetation along	canal is sparse	e, trash on sid	e of canal, paper	and plastic.	
LOCATION		MATERI	AL	SI	IAPE		DIMENSIO	NS (IN.)	SUBMERGED
,		□ RCP [	СМР	Circular	Single		Diameter/Dimen		In Water:
		□ PVC [	HDPE	☐ Eliptical	Double		_ if		Mo □ Partially
Ĺ Closed Pipe		☐ Steel		Вох	☐ Triple				Fully
, -		Other: ( ON)	U	Other:	Other:				With Sediment:
	•								Partially Fully
<del></del>	·····	Concrete					····		
•		☐ Earthen		☐ Trapezoid			Depth:		
Open drainage	. i	rip-rap		Parabolic			Top Width:	_	
				☐ Other:			Bottom Width: _		
TT . C4		Other:			-7***				
In-Stream Flow Present?	·	(applicable when					· · · ·		
Flow Description		☐ Yes	y□ No	IJ No, Sk	ip to Section 5		•		
(If present)	-	Trickle	Moderate	e 🗌 Substantial			· · ·		·
Section 3: Quan	ıtitati	ve Characteriz	ation						
	, r			FIELD DATA FOR F	LOWING O	UTFALLS			
PA	RAME	TER		RESULT		U	IIT	EC	UIPMENT
□Flow#1	•	Volume				Li	ter	·	
		Time to fill				S	ec		·
		Flow depth				I	n		
□Flow #2	·	Flow width	<u>ō</u> , ,	· · · · · · · · · · · · · · · · · · ·		Ft,	In		
		leasured length	<u>ō</u> , ,	•		Ft,	In		
		Time of travel	_	<del></del>			ec	<u></u>	
Te	mperat	ture							
-,	pН		<del>- </del>			pH (	Jnits	Tes	st strip/Probe
A	Ammon	ia			,	pp	m		Test strip

	RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected distance distance	□ 2 – Clearly visible in sample bottle outfall flow	2-Cloudy	of origin (e.g., possible suds or oil sheen)  2 - Some; indications  (e.g., obvious oil sheen, suds, or floating sanitary materials)			COMMENTS		gae					□ Obvious	
	RELA	1 – Faint	☐ 1 – Faint colors in sample bottle	☐ 1 Slight cloudiness	☐ 1 — Few/slight; origin not obvious		(9 u			sediment and algae					cators with a severity of	
$\lim_{\square No} (f/No, Skip to Section 5)$	DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Yellow ☐ ☐ Orange ☐ Red ☐ ☐ Other:	See severity	, etc.) . 🗖 Suds		on-Flowing Outfalls ?	DESCRIPTION	Spalling, Cracking or Chipping Paint Corrosion	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	☐ Excessive ☐ Inhibited	lors Colors Ploatables Oil Sheen ds Excessive Algae Other:	own		e indicators)	
wing Outfalls Or		☐ Sewage ☐ ☐ Sulfide ☐	☐ Clear ☐		Sewage (Toilet Paper, etc.)		h Flowing and N ed to flow presen	resent		0 🗆	a 📗	Odors Suds	Brown	zation	Potential (presence of two or more indicators)	
ndicators for Flo	CHECK if Present	Π.				ence due to low tide	idicators for Bot that are not relat	CHECK if Present						ıffall Characteri	Potential (prese	y
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	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?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	☐ Unlikely ☐	

Section 1: Ba	ekgrou	nd Data							WARK
Subwatershed:					Outfall I	D: 🗸	° 20		تے، "
Today's date:	1	12-10			Time (M	ilitary):	8.90	, .	-1
Investigators:	R		. ~		Form cor	mpleted by:			, <del></del>
Temperature (°I	F):			fall (in.): Last 24 hours: (	0 Last 48 h	ours: 0			
Latitutde: 235	8837.854		Longitude:	• •	GPS Uni	t:		GPS LMK	C#:
Camera: Nikoл-					Photo #s	:	0051		
Land Use in Dra	ainage Aı	rea (Check all tha	t apply):						
Industrial					☐ Open	Space			•
☐ Ultra-Urban	Resident	ial	4		☐ Institu	utional			
Suburban Re	sidential				Other:	٠			
(Commercial	1				Known I	ndustries: _	Supelfe	14/	· 
Notes (e.g, orig	. ,		arge crabs, Mi	nnows, vegetation along c	anal is sparse	, trash on si	de of canal, pape	and plastic.	
LOCATIO	N ,	MATE	RIAL	SHA	APE	n wa je	DIMENSI	ONS (IN.)	SUBMERGED
		RCP	□СМР	Circular	Single	·	Diameter/Dime		In Water:
•		□ PVC	☐ HDPE	☐ Eliptical	Double		3 M	' \$ "	No Partially
Closed Pipe		Steel		Вох	☐ Triple	•			☐ Fully
		Other:	·	Other:	Other: _				With Sediment:  No Partially Fully
☐ Open drainag	ge	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:		÷	Depth: Top Width: Bottom Width:		
☐ In-Stream		(applicable wh	en collecting	samples)	7.3				ाष्ट्रमण्डम् । 
Flow Present?		☐ Yes	₽₹No	If No, Skip	to Section 5		· · · · · · · · · · · · · · · · · · ·		
Flow Description (If present)	1	Trickle	☐ Moderate	Substantial					¥.
Section 3: Qua	antitati	ve Character	ization						
				FIELD DATA FOR FL	OWING O	JTFALLS		: :	
P	ARAME	TER	<u> </u>	RESULT		ט	NIT		EQUIPMENT
Flow#1	ļ	Volume		···		I	iter		
		Time to fill					Sec .		
•		Flow depth		<del></del>			In		<u></u>
□Flow #2	<u> </u>	Flow width	<u> </u>			F	t, In		·
		Measured length	0, "			F	t, In		
		Time of travel		,		•	Sec		
	Tempera	ture a				<del></del>	°F		
	pН			<u></u>		pН	Units	T	est strip/Probe

ppm

Test strip

Ammonia

Charling C. Duranell Durkell Discussional Conference
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Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NEGS CEANED

Section 1: Bac	ckgrou	nd Data							
Subwatershed:			·		Outfall	ID:	20		
Today's date:	7	-12-10			Time (I	Military):	8:10	·····	. " <del>"</del>
Investigators:	R	-12-10 MIN			Form c	ompleted by:	C P	lev	
Temperature (°F			Rainf	fall (in.): Last 24 hours:	0 Last 48	hours: 0			
Latitutde: 2358	8837.854	Le	ongitude:	4. *	GPS U	nit:		GPS LMK #	1
Camera: Nikon-					Photo #	fs: O	053		
Land Use in Dra	inage Ar	rea (Check all that ap	oply):						
☐ Industrial					☐ Ope	en Space			
Ultra-Urban l	Resident	ial			☐ Inst	itutional ·			
☐ Suburban Re:	sidential				Other:				
Commercial							SUPER F	FRAY	
Notes (e.g, orig	<del></del>		crabs, Mir	nnows, vegetation along c			<del></del>		
LOCATIO		MATERIA	AL	SH	APE	5 }	DIMENSIC	INS (TN.)	SUBMERGED
		<del></del>	СМР		Single	·	Diameter/Dimen		In Water:
			] HDPE	☐ Eliptical	Double		Brainete Printer	sions.	Mo ☐ Partially
☑ Closed Pipe		<u> </u>	111010			;			
Closed ripe		Steel		Box	Triple				With Sediment:
	`\ 	Other:	_	Other:	Other:				☐ No Ø Partially ☐ Fully
		☐ Concrete							
		☐ Earthen	•	☐ Trapezoid			Depth:		
Open drainag	;e	☐ rip-rap		Parabolic	- -		Top Width:	_	
		☐ Other:		Other:		•	Bottom Width: _		
☐ In-Stream	····	(applicable when	collecting	samples)	. ∫				
Flow Present?	:	☐ Yes	<b>IX</b> ÎNo		p to Section	<del></del>			
Flow Description (If present)			Moderate						# 1 W 1
Section 3: Qua	ntitati	ve Characteriz	ation						****
<del>.</del>			·:	FIELD DATA FOR FL	OWING C	· · · · · · · · · · · · · · · · · · ·			
P/	ARAME	·		RESULT	. L ( )	U	JNÍT	EÇ	UIPMENT
∏Flow#1		Volume				r	Liter		
•		Time to fill		<del></del>			Sec		
		Flow depth		<del> </del>			In		· · · · · · · ·
∏Flow #2		Flow width	0' "				<sup>7</sup> t, In		
4	<del></del>	Measured length	<u>0</u> ' "				²t, In		
		Time of travel					Sec		
· Т	Temperat	ure	<u> </u>			<del></del>	°F		
	pН		<del> </del>			pН	Units	Tes	st strip/Probe
	Ammon	ia		• .			anm	•	Tant atrin

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow? \(\subseteq \text{Yes} \)

INDICATOR	CHECK if Present		Ď	DESCRIPTION			RELAT	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	Rancid/sour	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	/gas	□ 1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		Clear Green	☐ Brown ☐ Orange	☐ Gray	☐ Yellow ☐ Other:	1 - Faint colors in		□ 2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			- 4	See severity		☐ I – Slight cloudiness		2-Cloudy	3 - Opaque
Floatables -Does Not Include -Trashi!		Sewage (Toilet Paper	<ul><li>□ Sewage (Toilet Paper, etc.)</li><li>□ Petroleum (oil sheen)</li></ul>	Suds		☐ 1 — Few/slight; origin not obvious	_	2 - Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	rence due to low tide								
Section 5: Physical Indicators for Both Flowing and Non-Flowing Are physical indicators that are not related to flow present?	ndicators for Bot s that are not relat	th Flowing a	nd Non-Flowi	ring Outfalls Yes ∐No	(If No, Skip to Section 6)	ion 6)			
INDICATOR	CHECK if Present	resent		Q	DESCRIPTION			COMMENTS	S
Outfall Damage			Spalling, Cr.	Spalling, Cracking or Chipping Corrosion	oing 🔲 Peeling Paint				
Deposits/Stains			□ Oily □ Flo	☐ Flow Line ☐ Paint	aint Other:	Se	sediment and algae	algae	
Abnormal Vegetation			☐ Excessive [	☐ Inhibited					
Poor pool quality			Odors Suds	Colors Excessive Algae	☐ Floatables ☐ Oil Sheen gae ☐ Other:				
Pipe benthic growth		İ	☐ Brown [	□ Orange	☐ Green ☐ Other:				
Section 6: Overall Outfall Characterization	utfall Characteri	عtion							
M Unlikely □	Potential (presence of two or more indicators	ince of two o	r more indicato	(	Suspect (one or more indicators with a severity of 3)	dicators with a sex	verity of 3	3)	

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

		ata			•				
					Outfal	1 ID: . P	21-01		
		-ID			Time (	(Military):	4:19		
		Min	/		Form	completed by:			
•			Rainf	all (in.): Last 24 hours	s: 0 Last 48	hours: 0			
			Longitude:		GPS U	Jnit:		GPS LMK	<del>/</del> :
					Photo	#s: €	2054		
Land Use in Dra	inage Ar	ea (Check all tha	t apply):	<del></del>			,		
[] Industrial					□Ор	en Space			
Ultra-Urban	Resident	ial			☐ Ins	titutional			
☐ Suburban Re	sidential				Other:				
Commercial					 Клоw	ı Industries: _	N6 B	0475.	
Notes (e.g, orig	gin of out	fall, if known): la	irge crabs, Mi	nnows, vegetation along	canal is spar	rse, trash on s	de of canal, paper	and plastic.	
			•						
		,		,			•	, <del>, , ,,,,,,,</del>	
Section 2: Out		scription MATE	DTAI		HAPE		DIMENSIO	INC (TNI )	SUBMERGED
LOCKITO		RCP	☐ CMP	Circular	√ Single		Diameter/Dimer		In Water:
		□ PVC	HDPE	☐ Eliptical	Doubl		14"	1510115,	No Partially
N Closed Pine		K Steel		Box					Fully
Closed Pipe		ľ ·			Triple				With Sediment:
		Other:		Other:	Other:				No ☐ Partially
		Concrete	<u></u>					•	☐ Fully
		☐ Earthen		☐ Trapezoid			Depth:	•	
D Open drainag	ge	_		☐ Parabolic			Top Width:	_	
		∏ rip-rap		☐ Other:			Bottom Width: _		
		Other:	_						
☐ In-Stream		(applicable wh	2	samples)		1 2		······	
Flow Present?		☐ Yes	□No	If No, S	kip to Section	n 5			
Flow Description (If present)	l 	☐ Trickle	Moderate	☐ Substantial			****		
Section 3: Qua	ntitati	ve Character	ization						
				FIELD DATA FOR	FLOWING	OUTFALLS			
P	ARAME	TER		RESULT		U	NIT	E(	QUIPMENT
□Flow#1		Volume			<u>i . i</u> .	]	iter		
		Time to fill					Sec		
		Flow depth		-			In		
□Flow #2		Flow width	<u>0</u> ' "		•	F	t, In		
	M	leasured length	<u>o</u> , "			F	t, In		
		Time of travel					Sec		
	Temperat	ure					°F		
	pН					рН	Units	Те	st strip/Probe
	Ammon	ia				ı	ppm		Test strip

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

Section 1: Bac	ekgrou	nd Data						•	
Subwatershed:				· · · · · · · · · · · · · · · · · · ·	Outfal	IID: <b>/</b>	21-07	2	
Today's date:	7-	-17-10			Time (	Military):	8:20		
Investigators:	7	Mil			Form o	ompleted by:			
Temperature (°F	):			all (in.): Last 24 hours:	0 Last 48	hours: 0			
Latitutde: 2358	837.854		Longitude:		GPS U	nit:		GPS LMK #	•
Camera: Nikon-					Photo	#s:			
Land Use in Dra	inage Ar	ea (Check all tha	t apply):	<del>-</del>					
🕅 Industrial					□Ор	en Space			
Ultra-Urban l	Residenti	al		•	Inst	titutional			,
Suburban Res	sidential					·			<u>.                                    </u>
Commercial					Known	Industries: _	106	1000 TG.	
Section 2: Out	tfall De	scription		nnows, vegetation along c			· · · · · · · · · · · · · · · · · · ·		
LOCATIO	N	MATE		· · · · · · · · · · · · · · · · · · ·	APE		DIMENSIO		SUBMERGED
-		□ RCP □ PVC	☐ CMP	Eliptical □	Single		Diameter/Dimen	sions:	In Water: ☐ No ☐ Partially
□\Closed Pipe		Steel		Box	☐ Triple				Fully
<i>,</i> ~ .		Other: C	WILLETE	Other:	Other:				With Sediment:  ⊠ No □ Partially □ Fully
	<del>.</del>	☐ Concrete			<u></u> .				
		☐ Earthen		☐ Trapezoid			Depth;		
Open drainag	e	-		Parabolic		٠	Top Width:	_	
		rip-rap		☐ Other:			Bottom Width: _		
		Other:	_						
☐ In-Stream		(applicable wh	<del></del>	sampies)				. : :	
Flow Present?		☐ Yes	<u> </u>	If No, Skip	o to Section	. 5			
Flow Description (If present)	·	☐ Trickle	☐ Moderate	☐ Substantial			,		
Section 3: Qua	ntitati	ve Characte	rization						
	•······························			FIELD DATA FOR FL	OWING	OUTFALLS			· .
P.	ARAME	TER		RESULT			NIT	EÇ	UIPMENT
□Flow#1		Volume				I	iter		
	ļ	Time to fill			<u></u>		Sec		<u> </u>
	 	Flow depth					In		·
□Flow #2		Flow width	0, "			F	t, In		
		leasured length	0' "	<del>-</del>		F	t, In		
	L	Time of travel			· · · · ·		Sec		
	Γemperat	ure					°F		
<del></del>	pН		*	· · · · · · · · · · · · · · · · · · ·		pH	Units	Tes	st strip/Probe
	Ammon	ia				ŗ	ppm		Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?

(-3)	3 - Noticeable from a distance	3 – Clearly visible in outfall flow	3 – Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)						interv			
RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	2 – Clearly visible in sample bottle	□2-Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		nd algae				
REL	🗌 1 – Faint	1 – Faint colors in sample bottle	1 - Slight cloudiness	☐ 1 — Few/slight; origin not obvious		ion 6)			sediment and algae				
DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other.	See severity	<ul> <li>Sewage (Toilet Paper, etc.) ☐ Suds</li> <li>Petroleum (oil sheen) ☐ Other:</li> </ul>		nd Non-Flowing Outfalls resent? ☐ Yes ⊠No (If No, Skip to Section 6)	DESCRIPTION	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	Oily   Flow Line   Paint   Other:	□ Excessive □ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	☐ Brown ☐ Orange ☐ Green ☐ Other:	
CHECK if Present	Sewage Sulfide	Clear		Sewage (Toilet Paper	ne to low tide	itors for Both Flowing : t are not related to flow	CHECK if Present						Characterization
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indicators for Both Flowing and Non-Flowin Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization

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

☐ Potential (presence of two or more indicators)

Ġ Unlikely

□ Obvious

☐ Suspect (one or more indicators with a severity of 3)

Section 1: Bac	kgroui	nd Data							
Subwatershed:					Outfal	l ID:	(-	2 24 - 0	)ろ
Today's date:	7-1	2-10			Time (	(Military):			
Investigators:	R	mi	W		Form	completed by:			
Temperature (°F)	):		Rain	fall (in.): Last 24 hours:	0 Last 48	hours: 0			
Latitutde: 2358	837.854		Longitude:		GPS U	Init:		GPS LMK #	•
Camera: Nikon-					Photo	#s: 6D Z	56		
Land Use in Drai	inage Are	ea (Check all	that apply):	,		,	-		
Industrial					□Ор	en Space		•	
Ultra-Urban F	Residenti	al			☐ Ins	titutional			
☐ Suburban Res	sidential				Other:	• •			
Commercial				•	Knowi	ı Industries: _	JUb	BOATS	<del> </del>
Notes (e.g, origi			): large crabs, Mi	nnows, vegetation along c	anal is spai	rse, trash on si	de of canal, pa	per and plastic.	
LOCATIO			TERIAL	SHA	APE	No. 25 P.	DIMEN	SIONS (IN.)	SUBMERGED
		□ RCP	СМР	[X] Circular	Single	· · · · · · · · · · · · · · · · · · ·	Diameter/Dir	nensions:	In Water:
		☐ PVC	☐ HDPE	☐ Eliptical	Doub!	e	12		⊠ No □ Partially
☑ Closed Pipe		.Steel		☐ Box	☐ Triple				☐ Fully
· ·		☐ Other:	CONCRETE	☐ Other:	Other:				With Sediment: '⊠`No
		7			<b>—</b> •,				Partially Fully
		Concrete	<del></del>				<del></del>	<u> </u>	
	ı	☐ Earthen		☐ Trapezoid			Depth:	-	
Open drainage	e	□ гір-гар		☐ Parabolic			Top Width: _		
				☐ Other:			Bottom Widt	h:	
☐ In-Stream		Other: _	when collecting	complet)	1				
Flow Present?		☐ Yes	over concerning	<del></del>					: -
Flow Description (If present)		☐ Trickle	☐ Moderate		, to Beetto		<u></u>		
Soction 3. One	n +1 + a +1	us Chanas		·	<del></del>			· · · · · ·	
Section 3: Qua	ntitati	уе Спагас	terization	FIELD DATA FOR FL	OWING	OUTFALLS	. ·		
P/	ARAME	TER		RESULT		· · · · · · · · · · · · · · · · · · ·	NIT	EQ	UIPMENT
		Volume		<del>,,</del>	٠.		Liter		
□Flow#1		Time to fill				:	Sec		·······
		Flow depth					In		
□Flow #2		Flow width	0, ,	3		F	t, In		
□110W #2	M	leasured leng	th <u>0</u> , ,	1		F	t, In		
	-	Γime of trave	1				Sec		
Т	Temperat	ure					°F		
	pН	•		· · · · · · · · · · · · · · · · · · ·		pН	Units	Tes	t strip/Probe
	Ammon	ia				n	pnı		Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

X (1-3)	3 – Noticeable from a	distance	3 - Clearly visible in	outfall flow	3 - Opaque	3 - Some; origin clear	sheen, suds, or floating sanitary materials)			NTS							
RELATIVE SEVERITY INDEX (1-3)	7 - Fasily detected	אייטאווא מרוגאויאם	☐ 2 — Clearly visible in	sample bottle	2-Cloudy	2 – Some; indications	possible suds or oil sheen)			COMMENTS		nd algae					of 3)
REL	<u> </u>	1	it colors in	sample bottle	☐ 1 – Slight cloudiness	1 - Few/slight: origin						sediment and algae					ith a severity o
	☐ 1 – Faint	] -	☐ 1 — Faint colors in	sampl	□ 1 – Slig	1 Few	not obvious		ection 6)		aint			een			indicators w
	SI		☐ Yellow	□Other:					(If No, Skip to Section 6)	DESCRIPTION	g Peeling Paint	t Other:		Floatables Oil Sheen	☐ Green ☐ Other:		Suspect (one or more indicators with a severity of 3)
DESCRIPTION	/sour   Petroleum/gas	i	Gray	□ Red	See severity	ic.) 🗌 Suds	Other:		owing Outfalls  Yes ANo	DES	Spalling, Cracking or Chipping Corrosion	Flow Line Paint	Inhibited	Colors C	Orange		_
	Rancid/sour	Other:	☐ Brown	Orange		Sewage (Toilet Paper, etc.)	Petroleum (oil sheen)		and Non-Flo present?		Spalling, C	Oily [	☐ Excessive	Odors Suds	☐ Brown		or more indic
	☐ Sewage	Sulfide	Clear	Green		Sewage (	Petroleur		th Flowing a	Present						ization	ence of two
CHECK if Present				]		Ε	] ·	nce due to low tide	dicators for Bo	CHECK if Present						tfall Character	☐ Potential (presence of two or more indicators)
INDICATOR	Odor		rolo	, and a second	Turbidity	Floatables	Trash!!	Notes: Potential tidal influence due to low tide	 Section 5: Physical Indicators for Both Flowing and Non-Flowin Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	

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

Section 1: Bac	ckgrou	nd Data							Ĉ
Subwatershed:					Outfall II	D:	P 243-6	304	
Today's date:					Time (M	ilitary):	,		
Investigators:	٠				Form con	npleted by:	, ,,,,,,,,		
Temperature (°F	'):		Raint	fall (in.): Last 24 hours: (	Last 48 ho	ours: 0			
Latitutde: 2358	8837.854		Longitude:		GPS Unit	t:	,	GPS LMK #	:
Camera: Nikon-		-			Photo #s:				<u>.</u> .
Land Use in Dra	inage Ar	ea (Check all tha	t apply):				,		
□ Industrial					☐ Open	Space			
☐ Ultra-Urban I	Residenti	ial			☐ Institu	itional			
Suburban Res	sidential				Other:				····
Commercial					Known In	ndustries: _			
Notes (e.g, orig	in of out	fall, if known): la	rge crabs, Mi	nnows, vegetation along ca	anal is sparse,	trash on si	de of canal, paper	and plastic.	
			•	•					
				<del></del>			· · · · · · · · · · · · · · · · · · ·	-	<del></del>
Section 2: Out		T						<u>.</u>	<u></u>
LOCATIO	N	MATE	<u></u>		NPE TO STATE OF THE PERSON OF		DIMENSIO		SUBMERGED
		□ RCP	□ CMP	Circular	Single		Diameter/Dimen	sions: (	In Water:
·		□ PVC	☐ HDPE	☐ Eliptical	☐ Double		- X	<del></del>	Partially Fully
Closed Pipe				<b>Æ</b> Box	Triple	•	¥		With Sediment:
		Other: CO	W RUE	☐ Other:	Other;				MNo ☐ Partially
				<u> </u>				<del></del>	Fully
		☐ Concrete		☐ Trapezoid			Depth:	•	
Open drainag	re.	☐ Earthen		Parabolic			Top Width:		
_ open arming	,-	🔲 rip-rap							
		Other:	_	Other:			Bottom Width: _		
☐ In-Stream		(applicable wh	en collecting	samples)	75.00		• .		विभवनभवन्यविद्याः स्वतं भव्यक्षायाः ।
Flow Present?		∑XYes	□ No	If No, Skip	to Section 5				
Flow Description (If present)		Trickle	☐ Moderate	Substantial		,			
Section 3: Qua	ntitati	va Charaatar	ization :			*****	· · · · · · · · · · · · · · · · · · ·		. 17
section 5. Qua	intitati	ve Character	ization	FIELD DATA FOR FL	OWING OL	JTFALLS			-
P	ARAME	TER		RESULT		<del></del>	NIT	EC	UIPMENT
		Volume			1		_iter		
Flow #1		Time to fill					Sec		
		Flow depth		<u> </u>			In		
□Flow #2		Flow width	<u>ō</u> , ,	)		F	t, In		, , <del>, , , , , , , , , , , , , , , , , </del>
∐r10W #2	M	leasured length	0, ,	,		F	t, In		
	,	Time of travel					Sec		
7	remperat	ure					°F		-
	pН					рН	Units	Tes	st strip/Probe
	Ammon	ia				r	opm		Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?

X (1-3)	3 – Noticeable from a distance	☐ 3 — Clearly visible in outfall flow	☐ 3 — Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)			ITS								
RELATIVE SEVERITY INDEX (1-3)	2 – Basily detected	2 – Clearly visible in sample bottle	□ 2 ~ Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		ıd algae					(5)   Obvious	
REL	☑1 ~ Faint	☐ 1 – Faint colors in sample bottle	☐ 1 – Slight cloudiness	1 - Few/slight; origin not obvious		ion 6)			sediment and algae	:				Suspect (one or more indicators with a severity of 3)	
NOI	☐ Petroleum/gas	Yellow Other:	ty			ufalls No ( <i>IfNo, Skip to Section 6</i> )	DESCRIPTION	Chipping   Pecling Paint	☐ Paint ☐ Other:	pa	☐ Floatables ☐ Oil Sheen ive Algae ☐ Other.	☐ Green ☐ Other:		Suspect (one or more in	frastructure repairs)?
DESCRIPTION	Rancid/sour	n Orange Red	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:		1-Flowing Or		Spalling, Cracking or Chipping Corrosion	Oily Thow Line	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ ☐ Suds ☐ Excessive Algae	☐ Brown ☐ Orange		vo or more indicators)	Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?
CHECK if Present	N Sewage	☐ Clear ☐ Green		Sewa	ice due to low tide	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	CHECK if Present						fall Characterization	图 Potential (presence of two or more indicators)	icit Discharge Concerns
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Inc Are physical indicators	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	□ Unlikely	Section 7: Any Non-III

Section 1: Bac	kgrou	nd Data					1			
Subwatershed:						Outfall	I ID:	0-21		
Today's date:						Time (	Military):			
Investigators:						Form o	completed by:		50	<del>-</del>
Temperature (°F)				Rainf	fall (in.): Last 24 hours:	0 Last 48	hours: 0	50	VII	
Latitutde: 23588	837.854		Long	itude:		GPS U	nit:	10	nons yya	9
Camera: Nikon-		<del></del>				Photo	#s:			
Land Use in Drain	inage Ar	ea (Check all tha	it apply	):				es C	, t	-len
☐ Industrial						□Оря	en Space	$U^{-}$	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	n ann C
Ultra-Urban R	Residenti	ial				☐ Inst	titutional	1	11741	Jeon S
Suburban Res	sidential					Other:		1.0	74 ( )	<del>- (0)</del>
☐ Commercial						Known	n Industries:		9 N	ON 1/-
Notes (e.g, origin			irge cra	ıbs, Mir	nnows, vegetation along c	anal is spar	se, trash on si	de of canal, paper	and plastic.	
LOCATION	N	MATE	RIAL		SH/	APE		DIMENSIO	ONS (IN.)	SUBMERGED
		□ RCP	□ c	MP	☐ Circular	☐ Single		Diameter/Dimer	sions:	In Water:
•		□ PVC	□н	DPE	☐ Eliptical	☐ Double	3	i	<del></del> .	☐ No☐ Partially☐ Fully☐
Closed Pipe		☐ Steel			□Box	☐ Triple				With Sediment:
		Other:	<del></del>	-	Other:	Other:	<del></del>			No Partially Fully
		☐ Concrete	· · · · · ·		☐ Trapezoid					
		☐ Earthen						Depth:		
Open drainage	e	☐ rip-rap			Parabolic			Top Width:		
		Other:	_		Other:			Bottom Width: _		
☐ In-Stream		(applicable wh	en coll	ecting :	samples)	16.7		<del></del>		
Flow Present?		☐ Yes	<u>·</u>	□No	If No, Skij	n to Section	ı 5	. <u></u>	·	<u></u>
Flow Description (If present)		☐ Trickle	□м	oderate	Substantial					
Section 3: Quar	ntitati	ve Character	rizatio	on	-					-
<del></del>					FIELD DATA FOR FL	OWING	OUTFALLS	·		
P#	ARAME	TER		:	RESULT	N 1 1	U	NIT	EQ.	UIPMENT
□Flow#i		Volume					I	iter		· <u>-</u>
		Time to fill						Sec		
_ ]	-	Flow depth						In		
□Flow #2		Flow width		<u>0</u> ' "			F	t, In	-	
	· N	leasured length		<u>0</u> ' "			F	t, In		
		Time of travel		· 	· · · · · · · · · · · · · · · · · · ·			Sec	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
T	emperat	ure						°F		1100
,	pН				·		pН	Units	Tes	t strip/Probe
	Ammon	ia	.				E	pm		Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

INDICATOR	CHECK if Present	·	DES	DESCRIPTION		ay.	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	Rancid/sour	☐ Petroleum/gas	as	□ 1 – Faint	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown [	Gray Red	☐ Yellow ☐ Other:	☐ 1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			Se	See severity		☐ 1 — Slight cloudiness	2-Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper	, etc.)	Suds		1 – Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some, origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	ence 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?	ndicators for Bot s that are not relat	h Flowing ar	nd Non-Flowing esent?	ig Outfalls es □ No	(If No, Skip to Section 6)	tion 6)		
INDICATOR	CHECK if Present	resent		DE	DESCRIPTION		COMMENTS	S
Outfall Damage			Spalling, Cracking or Chipping Corrosion	king or Chippi	ng Decling Paint			
Deposits/Stains			Oily   Flow Line	Line   Paint	nt Other:	sediment and algae	and algae	
Abnormal Vegetation			☐ Excessive ☐	☐ Inhibited				
Poor pool quality			Odors Osuds	Colors	☐ Floatables ☐ Oil Sheen ae ☐ Other:			
Pipe benthic growth			☐ Brown	Orange	Green Other:			
Section 6: Overall Outfall Characterization	ıtfall Characteri	zation						
☐ Unlikely □	Potential (prese	nce of two or	Potential (presence of two or more indicators)		Suspect (one or more in	Suspect (one or more indicators with a severity of 3)	of 3)	
Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?	llicit Discharge (	Concerns (e.	g., trash or need	ed infrastr	ucture repairs)?			

Section 1: Bac	ckgrou	nd Data							
Subwatershed:					Outfall	ID:	21-		
Today's date:	7	-12-10			Time (A	Military):			
Investigators:		2 Min	,		Form co	ompleted by:			
Temperature (°F)	):		Rainf	fall (in.): Last 24 hours:	0 Last 48 l	hours: 0			
Latitutde: 2358	837.854	Long	gitude:	,	GPS Un	rit:		GPS LMK	#:
Camera: Nikon-			<u> </u>		Photo #	s:	+		
Land Use in Drai	inage Ar	rea (Check all that appl	y):						
Industrial					□ Орег	n Space			
Ultra-Urban F	Resident	ial			🔲 Insti	tutional			
Suburban Res	sidential				Other: _	·	<del></del>		<u> </u>
Commercial					Known	Industries: _			
Section 2: Out	fall De	escription		nnows, vegetation along c				·	
LUCATIO	<u> </u>	MATERIAL			APE		· · · · · · · · · · · · · · · · · · ·	ONS (IN.)	SUBMERGED
			CMP HDPE	☐ Circular ☐ Eliptical	Single  Double		Diameter/Dime		In Water: No Partially
Closed Pipe		☐ Steel		⊠ Box	☐ Triple				☐ Fully
		AOther: (OV)	· <del>-</del>	☐ Other:	Other:				With Sediment:  No Partially
		☐ Concrete							<b>∑</b> Fully
				☐ Trapezoid			Depth:		
Open drainage	e	Earthen		Parabolic		-	Top Width:		
		☐ rip-rap		Other:			Bottom Width:		
		☐ Other:							
☐ In-Stream		(applicable when co			4 1				
Flow Present?		☐ Yes		If No, Ski	p to Section	5			· · · · · · · · · · · · · · · · · · ·
Flow Description (If present)		☐ Trickle ☐ M	/loderate	e ☐ Substantial			·		
Section 3: Qua	ntitati	ve Characterizat	ion		·				
				FIELD DATA FOR FL	LOWING O	UTFALLS			
P/	ARAME	TER		RESULT			NIT	E	QUIPMENT
□Flow#1		Volume				I	Liter		
		Time to fill					Sec		
		Flow depth					In		
□Flow #2		Flow width	<u>o</u> , "	,		F	t, In		
]	λ	Measured length	0, "	,		F	t, In		
		Time of travel					Sec		
T	Temperat	lure					°F		ť
	pН					pН	Units	Te	est strip/Probe
	Ammon	ia		•	-	р	pm		Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	dicators for Flovors Present in the flu	wing Outfalls	alls Only (If No, Skip to Section 5)		
INDICATOR	CHECK if Present		DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)	
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ 1 — Faint ☐ 1 — Faint	☐ 2—Easily detected ☐ 3—Noticeable from a distance	8
Color		☐ Clear ☐ Green	□ Brown     □ Gray     □ Yellow       □ Orange     □ Red     □ Other:   Sample bottle	sample bottle outfall flow	
Turbidity			See severity	ess 2-Cloudy 3-Opaque	
Floatables -Does Not Include Trashi!		Sewage (Toilet Paper	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ 1 — Few/slight; origin ☐ Petroleum (oil sheen) ☐ Other:	igin of origin (e.g., e.g., obvious oil possible suds or oil sheen, suds, or floating sheen)	r ting
Notes: Potential tidal influence due to low tide	ance due to low tide				
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	dicators for Both that are not relate	h Flowing a ed to flow pi	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? □ Yes 区No (HNo, Skip to Section 6)		
INDICATOR	CHECK if Present	resent	DESCRIPTION	COMMENTS	
Outfall Damage			Spalling, Cracking or Chipping   Peeling Paint   Corrosion		
Deposits/Stains			Oily   Flow Line   Paint   Other:	sediment and algae	
Abnormal Vegetation		į	☐ Excessive ☐ Inhibited		T
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other.		1
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:		
Section 6: Overall Outfall Characterization	tfall Characteriz	zation			]
☐ Unlikely	Potential (preser	nce of two o	☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3)	verity of 3)	

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

Section 1: Bac	ekgroui	nd Data						
Subwatershed:					Outfall ID:	121		
Today's date:	7	-12-10 - MIN			Time (Military):	·		
Investigators:	R	MIN			Form completed	by: /		
Temperature (°F)	):		Raint	fall (in.): Last 24 hours: (	Last 48 hours: 0			
Latitutde: 2358	837.854	Loi	gitude:		GPS Unit:		GPS LMK #	f:
Camera: Nikon-					Photo #s:			
Land Use in Drai	inage Are	ea (Check all that app	ly):			_		
Industrial		•			Open Space			
Ultra-Urban F	Residenti	al			☐ Institutional			
Suburban Res	sidential				Other:		•	
Commercial					Known Industries	:		# **: \ <u>-</u>
Notes (e.g, original section 2: Out			crabs, Mi	nnows, vegetation along ca	anal is sparse, trash or	n side of canal, paper	and plastic.	·.
LOCATIO	N	MATERIA	L	SHA	<b>NPE</b>	DIMENSI	ONS (IN.)	SUBMERGED
		□ RCP □	СМР	Circular     Circular	<b>⊠</b> -Single	Diameter/Dimer	isions:	In Water:
•		□ PVC □	HDPE	☐ Eliptical	Double	22"		☐ No      Partially
Closed Pipe		☐ Steel		□Box	☐ Triple			☐ Fully
	ľ	Other: Cohi	etit	☐ Other:	☐ Other:			With Sediment:
·								Partially Fully
		Concrete		☐ Trapezoid		Danish		
	_	Earthen				Depth:		
Den drainage	e	☐ rip-rap	•	Parabolic		Top Width:		
		Other:		Other:		Bottom Width: _	<del></del>	
☐ In-Stream		(applicable when co	ollecting	samples)				ं । 
Flow Present?		☐ Yes	√J No	If No, Skip	to Section 5			
Flow Description (If present)		Trickle	Moderate	☐ Substantial			•	
Section 3: Qua	ntitativ	e Characteriza	tion	•	•			
				FIELD DATA FOR FL	OWING OUTFALL	s <sub>.</sub>		
P/	ARAMET	TER	, .	RESULT		UNIT	ΕÇ	UIPMENT
□Flow#1		Volume				Liter .		
		Time to fill	·			Sec		
		Flow depth				In		
□Flow #2		Flow width	0, "			Ft, In		,
	M	easured length	0, "	-	·	Ft, In		
	Т	ime of travel	ļ 			Sec		
Т	emperati	ire				۰F		
-	pН	<u>:</u>	,	p.		pH Units	Tes	st strip/Probe
	Ammonia	a				ppm		Test strip

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow? 

Yes Min

		, kg	e		ar ating									]		
	(1-3)	3 – Noticeable from a distance	3 - Clearly visible in outfall flow	☐ 3 — Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)			S								
	RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	2 – Clearly visible in sample bottle	2 - Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		nd algae					f3) 🗌 Obvious	
	REL		s in	diness	, origin			•	!	sediment and algae					severity o	
		☐ 1 — Faint	1 - Faint colors in sample bottle	☐ 1 – Slight cloudiness	☐ 1 — Few/slight; origin not obvious		ion 6)				5	:			dicators with a	!
(If No, Skip to Section 5)	NOI	☐ Petroleum/gas	/ Tellow	lty	4		alls No (If No, Skip to Section 6)	DESCRIPTION	Chipping	☐ Paint ☐ Other:	pe	Colors	☐ Green ☐ Other:		Suspect (one or more indicators with a severity of 3)	
	DESCRIPTION		☐ Gray	See severity	c) Suds		wing Outfalls ] Yes 🔀 No		Spalling, Cracking or Chipping Corrosion	☐ Flow Line	Inhibited	Colors Excessi	Orange		ators)	
Yes 🕅 No		Rancid/sour	☐ Brown ☐ Orange		Sewage (Toilet Paper, etc.)		and Non-Flor		Spalling,		☐ Excessive	Odors Suds	☐ Brown		or more indic	
		Sewage Sulfide	Clear		Sewage		h Flowing ed to flow	resent						zation	nce of two	
itors Present in the fi	CHECK if Present					ence due to low tide	ndicators for Botl s that are not relat	CHECK if Present						utfall Characteriz	Potential (presence of two or more indicators)	
Are Any Physical Indicators Present in the flow?	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	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?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	☑ Unlikely □	

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

Section 1: Bac	kgrou	nd Data						
Subwatershed:					Outfall ID:	P 22 -	01	
Today's date:	7	1-12-10			Time (Military):			
Investigators:	RM	7-12-10 1-12			Form completed b	oy:		11000
Temperature (°F)	):	<u> </u>	Rainf	fall (in.): Last 24 hours:	0 Last 48 hours: 0			
Latitutde: 2358	837.854	L	ongitude:		GPS Unit:		GPS LMK #	
Camera: Nikon-					Photo #s:			
Land Use in Drai	inage Ar	rea (Check all that a	pply):		·			
🗓 Industrial					Open Space			
□ Ultra-Urban F	Residenti	ial			☐ Institutional			
Suburban Res	idential				Other:	•		
Commercial				•	Other:Known Industries:	106	lante	7
Notes (e.g, origi	<del>.</del>		e crabs, Mir	nnows, vegetation along c	anal is sparse, trash on	ı side of canal, pap	er and plastic.	
LOCATIO		MATERI	AL	SH	APE	DIMENS	IONS (IN.)	SUBMERGED
			СМР	☑ Circular	Single	Diameter/Dim		In Water:
			☐ HDPE	☐ Eliptical	Double	2-Y"		□ No ▶ Partially
⊠Closed Pipe		☐ Steel		☐ Box	☐ Triple			Fully
		AOther: 60	KLITE	Other:	Other:			With Sediment:
	<del></del>	Concrete					<u> </u>	
····		☐ Earthen	1	Trapezoid		Depth:		
Open drainage	e	☐ rip-гар	I	Parabolic		Top Width:		
		☐ Other:	I	Other:		Bottom Width	:	
☐ In-Stream		(applicable when	collecting	samples)				
Flow Present?		☐ Yes	¥Z.No		p to Section 5			<u> </u>
Flow Description (If present)								,
Santian 3: Oug	ntitati	ve Characteriz	ration					
Section J. Qua	Hutati	ve Characteriz	anon	FIELD DATA FOR FL	OWING OUTFALL	S		
P/	ARAME	TER		RESULT		UNIT	EQ	UIPMENT
		Volume				Liter		• <del></del>
□Flow#1		Time to fill	1			Sec		
		Flow depth				In		
- HA		Flow width	0, "	,		Ft, In		
□Flow #2	N	Aeasured length	0, .,	,		Ft, In		. , , ,
	•	Time of travel				Sec		******
тт	emperat	iure				°F		
· <u> </u>	pН				I	pH Units	Tes	t strip/Probe
	Ammon	ia				ppm	,	Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?

INDICATOR	CHECK if Present	DESCRIF	CRIPTION		RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		☐ Sewage ☐ Rancid/sour ☐ Pe ☐ Sulfide ☐ Other:	□ Petroleum/gas	☐ 1 — Faint	2 - Easily detected	3 – Noticeable from a distance
Color		□ Clear         □ Brown         □ Gray           □ Green         □ Orange         □ Red	ray Tellow	1 - Faint colors in sample bottle	☐ 2 Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity		See severity	rerity	☐ 1 — Slight cloudiness	2 - Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper, etc.) Suds	uds . ther:	1 – Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	ence due to low tide					
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	ndicators for Bot s that are not relat	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	ntfalls (If No, Skip to Section 6)	ion 6)		
INDICATOR	CHECK if Present	resent	DESCRIPTION		COMMENTS	S
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Corrosion	or Chipping 🔲 Peeling Paint			
Deposits/Stains		Oily Flow Line	Paint Other:	sediment and algae	nd algae	
Abnormal Vegetation		☐ Excessive ☐ Inhibited	bited			
Poor pool quality		☐ Odors ☐ Colors ☐ Suds ☐ Excessi	Colors   Floatables   Oil Sheen Excessive Algae   Other:			
Pipe benthic growth		☐ Brown ☐ Orange	nge 🗌 Green 📋 Other:			
Section 6: Overall Outfall Characterization	ıtfall Characteri	zation				
X Unlikely	Potential (prese	Potential (presence of two or more indicators)	Suspect (one or more in	Suspect (one or more indicators with a severity of 3)	of 3)	
Section 7: Any Non-I)	llicit Discharge (	Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?	infrastructure repairs)?			

Section 1: Bac	ekgrou	nd Data			•				
Subwatershed:					Outfall ID:	P	23.01		
Today's date:	7-	-12-10 MIN			Time (Milit	•			
Investigators:	R	MIN			Form comp	leted by:		-	The second section of the section of the section of the second section of the section of t
Temperature (°F	·):		Raint	fall (in.): Last 24 hours:	0 Last 48 hour	rs: 0			
Latitutde: 2358	8837.854	· -	Longitude:		GPS Unit:			GPS LMK #	<del>!</del> :
Camera: Nikon-					Photo #s:	C	062		
Land Use in Dra	inage Ar	ea (Check all tha	t apply):				- · · · -	•	•
⊠Industrial					Open Sp	pace			
Ultra-Urban I	Residenti	al			☐ Institution	onal			
Suburban Re	sidential			•	Other:	•		-72	
€ Commercial					Known Indi	ustries:	<del></del>		
Notes (e.g, orig			arge crabs, Mi	nnows, vegetation along c	anal is sparse, tr	ash on sid	le of canal, paper	and plastic.	
LOCATIO	N·	MATE	RIAL	SH	APE	14. 1. d.	DIMENSI	ONS (IN.)	SUBMERGED
		RCP	□ СМР	Circular	Single		Diameter/Dimen	sions:	In Water:
		□PVC	HDPE	☐ Eliptical	☐ Double		30"		☐ No ☐ Partially
∑-Closed Pipe		Steel		☐ Box	☐ Triple				☐ Fully
•		Other:	ONCHER	☐ Other:	Other:	_			With Sediment: ∑No
									☐ Partially ☐ Fully
		☐ Concrete		, , , , , , , , , , , , , , , , , , ,	·		_		
<b>P</b>		Earthen		Trapezoid	-		Depth:		
Open drainag	;e	гір-гар		☐ Parabolic		i	Top Width:	_	
		Other:	_	Other:			Bottom Width: _		
☐ In-Stream		(applicable wh	en collecting	samples)	·				<u> सिक्तामध्यम् सम्बद्धाः स्थानम् स्थानम्</u>
Flow Present?		☐ Yes	ο <i>Ν,</i> <b>Ε</b> ]	If No, Ski	p to Section 5	•	·		
Flow Description (If present)		☐ Trickle	☐ Moderate	Substantial					
Section 3: Qua	ntitati	ve Characte	rization						
·				FIELD DATA FOR FI	OWING OUT	FALLS			
P.	ARAME	TER		RESULT		:U	NIT	E	QUIPMENT
□Flow#1		Volume				L	iter		
		Time to fill				S	lec		
		Flow depth			,		Ín		
□Flow #2	<u> </u>	Flow width	0' "			Fı	, In		
	M	leasured length	0' "	· · · · · · · · · · · · · · · · · · ·		Ft	, In		
		Γime of travel				S	ес		
	remperat	ште					PF .	· · · · · · · · ·	
	pН	•		<del></del> -		pН	Units	Те	st strip/Probe
	Ammon	io	1		[		277		Toot atrin

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

(1-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	3 - Opaque	(e.g., obvious oil sheen, suds, or floating sanitary materials)			I.S.								
RELATIVE SEVERITY INDEX (1-3)	2 – Easily detected	☐ 2 – Clearly visible in sample bottle	2-Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		ınd algae		:			of 3)	
REI	1 – Faint	1 – Faint colors in sample bottle	☐ 1 – Slight cloudiness	1 – Few/slight; origin not obvious		(9 uo		·	sediment and algae					licators with a severity o	
DESCRIPTION	☐ Petroleum/gas	Gray Yellow	ee severity	□ Suds □ Other:		g Outfalls es ⊠ No (f/No, Skip to Section 6)	DESCRIPTION	Spalling, Cracking or Chipping   Peeling Paint Corrosion	ine Paint Other:	☐ Inhibited	☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Excessive Algae ☐ Other:	☐ Orange ☐ Green ☐ Other:		Suspect (one or more indicators with a severity of 3)	Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?
DESC	Rancid/sour	Brown C	See	Sewage (Toilet Paper, etc.)		1-Flowin		Spalling, Crack	Oily Flow Line	☐ Excessive, ☐ I	Odors O	☐:Brown ☐ (		Potential (presence of two or more indicators)	(e.g., trash or need
CK if ent	] Sewage [ Sulfide	Clear Creen			low tide	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	CHECK if Present						aracterization	al (presence of two	charge Concerns
R CHECK if Present				nde $\square$	Notes: Potential tidal influence due to low tide	sical Indicators dicators that are		iage	ains	etation	ality	rowth	Section 6: Overall Outfall Characterization	Potentia	Non-Illicit Disc
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tive	Section 5: Phy: Are physical in	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Ove	X Unlikely	Section 7: Any

Section 1: Dac	.Kgrou	nu Data							
Subwatershed:					Outfall I	D:	P-23-0	2	
Today's date:	7	-12-10			Time (M	(ilitary):			
Investigators:		A M.	~		Form cor	mpleted by:			
Temperature (°F)	): 			fall (in.): Last 24 hours: 0	) Last 48 h	ours: 0			
Latitutde: 2358	837.854		Longitude:		GPS Uni	it:		GPS LMK #	t:
Camera: Nikon-					Photo #s	:			
Land Use in Drai	inage Are	ea (Check all tha	t apply):						
☐Îndustrial					□Ореп	Space			
Ultra-Urban F	Residenti	ial			☐ Institu	utional			
Suburban Res	sidential				Other: _	,	<u>,</u>		
Commercial					Known I	ndustries: _			
Notes (e.g, origi	in of out	fall, if known): la	arge crabs, Mir	nnows, vegetation along ca	anal is sparse	, trash on si	de of canal, paper	and plastic.	
						<i>p</i>			
C: -4! 1. O.4	- 11 Da		'						· Wany
Section 2: Out		scription MATE	DTAI	SHA	NDE		DIMENSIC	ING (TN )	CURMERCED
LUCATIO		RCP		<del></del>	Single	<u></u>	Dimension Diameter/Dimen		SUBMERGED In Water:
		□ RCF	☐ HDPE	. 1	☐ Double		2 4 "	sions:	KLNo
		<del>,</del>	∐ HDrc	j . I				<del></del>	Partially Fully
Closed Pipe		□-Steel	11100		☐ Triple				With Sediment:
·		74 Other: L	ONLYCOL	Other:	Other:				√Z No ☐ Partially
								·	Fully
		Concrete		☐ Trapezoid			Depth:		
Open drainag		☐ Earthen		Parabolic			Top Width:		
C) Ohen aramas		□ гір-гар						_	
		Other:	_	Other:			Bottom Width: _		
☐ In-Stream		(applicable wh	en collecting	samples)			<del></del>	÷	Пяянинення под применти
Flow Present?		☐ Yes	ď№	If No, Skip	o to Section 5	5	· · · · · ·		
Flow Description (If present)		☐ Trickle	☐ Moderate	Substantial					
Section 3: Qua	ntitati	ve Characte	rization						
	<del></del>			FIELD DATA FOR FL	OWING O	UTFALLS			
P/	ARAME	TER		RESULT		U. J.	INIT	EC	QUIPMENT
□D1#1		Volume				I	Liter		
∏Flow#1		Time to fill					Sec		
		Flow depth					In		
∏Flow #2		Flow width	· <u>0</u> ' "			F	t, In		
LIFIUW#4	N	leasured length	<u>0</u> , "			F	ft, In		
		Time of travel					Sec		
T	Γemperat	ure					°F ·		
	pН					pН	Units	Te	st strip/Probe
	A	•_							m

	RELATIVE SEVERITY INDEX (1-3)	2 – Basily detected distance	2 – Clearly visible in annual 3 – Clearly visible in outfall flow	udy 3-Opaque	; indications n (e.g., e suds or oil			COMMENTS							☐ Obvious	
	RELATIVE SEV	□ 1 – Faint □ 2 – Eas	☐ 1 - Faint colors in ☐ 2 - Clearly sample bottle sample bottle	1 - Slight cloudiness			n 6)			sediment and algae					Suspect (one or more indicators with a severity of 3)	-
falls Only Yes (If No. Skip to Section 5)	DESCR	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:		g and Non-Flowing Outfalls  present? Yes Yoo (If No, Skip to Section 6)	DESCRIPTION	Spalling, Cracking or Chipping Paint Corrosion	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	CHECK if Present	Sewage	Clear Green		Sewage	te due to low tide	Section 5: Physical Indicators for Both Flowing and Non-Flowin Are physical indicators that are not related to flow present?	CHECK if Present		٦				all Characterization	Potential (presence of two or more indicators)	
Section 4: Physical Ind Are Any Physical Indicator	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Ind Are physical indicators t	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	☑ Unlikely	O. 445 cm Mr. 4 cm Mix. 119.

Section 1: Bac	ckgrou	ınd Data							
Subwatershed:				·	Outfall II	): <i> </i>	23-8		
Today's date:	7.	-12-10			Time (Mi	litary):			
Investigators:		2 Mi	N		Form con	npleted by:			
Temperature (°F	"):	•	1	fall (in.): Last 24 hours:	0 Last 48 ho	ours: 0			•
Latitutde: 2358	3837.854	L	ongitude:	•	GPS Unit	:		GPS LMK #	l:
Camera: Nikon-	·			<del></del>	Photo #s:				
Land Use in Dra	inage Ar	rea (Check all that a	pply):		•				
☐ Industrial					☐ Open	Space			
Ultra-Urban I	Resident	iaI			☐ Institu	tional			
Suburban Re	sidential				Other:	•		<u> </u>	
☐ Commercial					Known In	dustries:	Cook	DRAIN	<i>)</i>
Notes (e.g, orig			e crabs, Mi	nnows, vegetation along c	canal is sparse,	trash on si	de of canal, paper	and plastic.	<del></del>
LOCATIO		MATERI	AL	SH	APE		DIMENSI	ONS (IN.)	SUBMERGED
		□ RCP [	□ СМР	Circular	Single		Diameter/Dimen	sions:	In Water:
•		□ PVC □	HDPE	☐ Eliptical	☐ Double		6"	·	ဩ-No ☐ Partially
Closed Pipe		Steel ∑		Вох	☐ Triple				☐ Fully
P		/		Other:	Other:				With Sediment:
	•				-,				Partially Fully
· ·		Concrete		<del></del>				<del></del>	
		Earthen		☐ Trapezoid		-	Depth:		
Open drainag	;e	☐ rip-rap		☐ Parabolic			Top Width:	_	
				Other:			Bottom Width: _		
☐ In-Stream		Other:	-114ing		7				
Flow Present?		(applicable when			<u> </u>		<u> </u>	·	·
<del></del>		Yes	<b>'</b> □		p to Section 5		<u> </u>		
Flow Description (If present)		Trickle [	☐ Moderate	Substantial				<u> </u>	
Section 3: Qua	intitati	ive Characteriz	ation						
				FIELD DATA FOR FL	LOWING OU	ITFALLS			
P.	ARAME	TER		RESULT	± 1,	. :U	NIT	EC	QUIPMENT
☐Flow#l		Volume				L	iter		
		Time to fill					Sec		
		Flow depth		** **** ******************************			In		
∏Flow #2		Flow width	0' "			F	t, In		
<b></b>	<b>——</b>	Measured length	0, "	· .		F	t, In		
		Time of travel				<del></del>	Sec		
	remperat	ture				<del></del>	°F ·		
	pН					pН	Units	Tes	st strip/Probe
	Ammon	ıia				••	nm		Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?

INDICATOR	CHECK if Present			DESCRIPTION	z		•	RELATIVE SEVERITY INDEX (1-3)	EX (1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Other:	sour 🔲 Petroleum/gas	ım/gas		□ 1 – Faint	2 - Easily detected	3 – Noticeable from a distance
Color		Clear	☐ Brown ☐ Orange	Gray	Yellow	low r:	1 - Faint colors in sample bottle	sample bottle	3 ~ Clearly visible in outfall flow
Turbidity				See severity			☐ 1 – Slight cloudiness	2-Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper	Sewage (Toilet Paper, etc.)	c.) Suds			1 – Few/slight; origin not obvious	2 – Some, indications of origin (e.g., possible suds or oil sheen)	
Notes: Potential tidal influence due to low tide	ence 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?	ndicators for Bot	h Flowing a ted to flow pr	nd Non-Flo	wing Outfalls		(Jf No, Skip to Section 6)	ion 6)		
INDICATOR	CHECK if Present	resent			DESCRIPTION	TION	- 	COMMENTS	NTS
Outfall Damage			Spalling Corrosio	Spalling, Cracking or Chipping Corrosion	pping	Peeling Paint			
Deposits/Stains			Oily	☐ Flow Line ☐	☐ Paint	Other:	sedime	sediment and algae	
Abnormal Vegetation			☐ Excessive	☐ Inhibited			, ;		<b>b</b>
Poor pool quality			Odors Suds	☐ Colors ☐ ☐ Excessive Algae	☐ Floatables Algae	ables Oil Sheen			
Pipe benthic growth			Brown	Orange	Green	n 🗌 Other:			
Section 6: Overall Outfall Characterization	utfall Characteriz	zation					·		

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

☐ Potential (presence of two or more indicators)

To Unlikely

☐ Obvious

☐ Suspect (one or more indicators with a severity of 3)

Section 1: Bac	ckgrou	ınd Data						
Subwatershed:					Outfall ID:	ドーレラ		
Today's date:		2-10			Time (Military):			
Investigators:	R	-MW			Form completed	by:		
Temperature (°F		•	Raint	fall (in.): Last 24 hours: 0	Last 48 hours: 0			
Latitutde: 2358	3837.854	Lo	ngitude:		GPS Unit:	-	GPS LMK #	ł:
Camera: Nikon-					Photo #s:	064		
۱ 🗼	inage Ai	rea (Check all that ap	ply);					
Industrial					Open Space			
Ultra-Urban	Resident	ial			☐ Institutional			
☐ Suburban Re	sidential				Other:			
Commercial		·			Known Industries	:		·
Notes (e.g, orig			crabs, Mi	nnows, vegetation along ca	nal is sparse, trash ou	n side of canal, paper	and plastic.	not the
LOCATIO		MATERIA	L	SHA	APE	DIMENSIO	ONS (IN.)	SUBMERGED
<del></del>		□ RCP □	СМР	Circular Circular	<b>⊠</b> Single	Diameter/Dimen		In Water:
		<b>⊠</b> -PVC □	HDPE	☐ Eliptical	Double	24		No □ Partially
Closed Pipe		□·Steel		☐ Box	☐ Triple			☐ Fully
		Other:		☑ Other:	☐ Other:			With Sediment:
								☐ Partially ☐ Fully
		☐ Concrete						
		☐ Earthen		☐ Trapezoid		Depth:		
Open drainag	(e	☐ rip-rap		Parabolic		Top Width:	_	
	•	☐ Other:		Other:		Bottom Width: _		
☐ In-Stream		(applicable when o	ollecting	samples)	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		<del></del>	
Flow Present?		☐ Yes	[Z]-No		to Section 5			
Flow Description (If present)			Moderate			· · ·		
Section 3: Oue	ntitati	ve Characteriza	tion					<del></del>
section 5. Qua	mutati	ve Characteriza	uon	FIELD DATA FOR FLO	OWING OUTFALL	s	•	
P.	ARAME	TER	1 ;	RESULT		UNIT	EQ	QUIPMENT
		Volume				Liter	·	
□Flow#1		Time to fill				Sec		
		Flow depth				In		****
□Flow #2		Flow width	0, "			Ft, In	******	777
□1 IOW π2	N	Aeasured length	0' "			Ft, In		
		Time of travel				Sec		
<u> </u>	remperat	ture				°F		
	pН					oH Units	Tes	st strip/Probe
	Ammon	ia				ppm		Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?

Are Any Physical Indicators Present in the flow?	tors Present in the f.	flow? 🗌 Yes 📅 No (If No, Skip to Section 5)			
INDICATOR	CHECK if Present	DESCRIPTION		RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ I — Faint	2-Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	1 – Faint colors in sample bottle	2 - Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity		See severity	☐ 1 – Slight cloudiness	ss	3 ~ Opaque
Floaiables -Does Not Include Trash!!		Sewage (Toilet Paper, etc.) Suds	☐ 1 – Few/slight; origin not obvious	gin 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 influence due to low tide	ance due to low tide				
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	dicators for Botl that are not relat	1-Flowing Outfalls	(If No., Skip to Section 6)		
INDICATOR	CHECK if Present	Present DESCRIPTION		COMMENTS	ſS
Outfall Damage		Spalling, Cracking or Chipping Pee	Peeling Paint		
Deposits/Stains		Oily Flow Line Paint Other:		sediment and algae	
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Suds ☐ Excessive Algae ☐	Oil Sheen		
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐	Other:		
Section 6: Overall Outfall Characterization	(fall Characteriz	zation			

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

☐ Potential (presence of two or more indicators)

V Unlikely

☐ Obvious

☐ Suspect (one or more indicators with a severity of 3)

Section 1: Bac	kgrou	nd Data						•	
Subwatershed:					Outfal	II ID:			, T. 4
Today's date:	7-	-12-10			Time	(Military):			
Investigators:					Form	completed by:		-	. 7.7.4
Temperature (°F)	):		Rainf	fall (in.): Last 24 hours:	0 Last 48	8 hours: 0			
Latitutde: 2358	837.854	Long	gitude:		GPS L	Jnit:		GPS LMK #	#:
Camera: Nikon-					· Photo	#s:			
Land Use in Drai	inage Ar	ea (Check all that appl	y):						
∏_Industrial					□Ор	en Space			
Ultra-Urban F	Residenti	ial			☐ Ins	stitutional			
Suburban Res	sidential				Other:	;			· · · · · · ·
Commercial					Knowi	n Industries: _			
Notes (e.g, original section 2: Out			rabs, Mil	innows, vegetation along o	canal is spai	rse, trash on s	de of canal, paper	and plastic.	<u> </u>
LOCATIO		MATERIAL		SH	APE		DIMENSIC	ONS (IN.)	SUBMERGED
		□ RCP □ C	СМР	Circular	Single		Diameter/Dimen	sions:	In Water:
		□PVC · □ I	HDPE	☐ Eliptical	Doubl	le	30"		⊠ No □ Partially
Closed Pipe		☐ Steel		☐ Вох	☐ Triple	<b>;</b>			Fully
<i>(</i>		Other: LOYLA	<u>'</u> OT	Other:	Other:				With Sediment:  ☑'No ☐ Partially ☐ Fully
		Concrete	-		<u> </u>	<del></del>		-	
		Earthen		☐ Trapezoid			Depth:		
Open drainage	e	☐ rip-rap		☐ Parabolic			Top Width:	_	
				Other:			Bottom Width:		
☐ In-Stream		Other:	Nslmer		٠.			•	
····		(applicable when co		<del></del>	S Constant				
Flow Present?		☐ Yes	Ų No	1ј 170, 5кі,	ip to Section	n 5	· · · · · · · · · · · · · · · · · · ·		
Flow Description (If present)		☐ Trickle ☐ M	Moderate	e Substantial	<del></del>		<del></del>	<del></del>	
Section 3: Qua	ntitati	ve Characterizati	ion						•
				FIELD DATA FOR FI	LOWING	OUTFALLS	•		
P/	ARAME	TER	3	RESULT		U	TINIT	E(	QUIPMENT
□Flow#1		Volume				I	Liter	/	-
□riow #1		Time to fill					Sec		
		Flow depth					In		
□Flow #2		Flow width	<u>0</u> , "	,		F	t, In		
	M	deasured length	0, "	1	_	F	rt, In		
		Time of travel	<u> </u>				Sec		
T	l'emperat	ure					°F		***************************************
	pН		ļ	•		рН	Units	Te	st strip/Probe
	Ammon	ia	i	•		١ .	nan		Test strin

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow? 
Yes

INDICATOR	CHECK if Present	!	Δ	DESCRIPTION			RELA	RELATIVE SEVERITY INDEX (1-3)	1-3)
Odor		Sewage Sulfide	Rancid/sour	ur 🔲 Petroleum/gas	/gas	☐ 1 — Faint		2 – Easily detected	3 - Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Orange	☐ Gray	☐ Yellow ☐ Other:	☐ 1 — Faint colors in sample bottle	s in	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity				See severity		☐ 1 – Slight cloudiness	diness	2-Cloudy	3 - Opaque
Floatables -Does Not Include Trashi!		Sewage (Toilet Paper	Sewage (Toilet Paper, etc.)	Suds		☐ 1 — Few/slight; origin not obvious	; origin	2 ~ Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	ence 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?	adicators for Bot s that are not relat	th Flowing a ted to flow p	nd Non-Flow resent?	'ing Outfalls Yes 🔀 No	(If No, Skip to Section 6)	ection 6)	,		
INDICATOR	CHECK if Present	resent			DESCRIPTION			COMMENTS	
Outfall Damage			Spalling, C	Spalling, Cracking or Chipping Corrosion	ping   Peeling Paint	aint	i		
Deposits/Stains			□ Oily □FI	☐ Flow Line ☐ Paint	aint Other:		sediment and algae	d algae	
Abnormal Vegetation		·	☐ Excessive	Inhibited					
Poor pool quality			Odors Suds	Colors Cassive Algae	☐ Floatables ☐ Oil Sheen gae ☐ Other:	eeu			
Pipe benthic growth			☐ Brown	Orange	Green Other:				
Section 6: Overall Outfall Characterization	ıtfall Characteri	zation							
∑ Unlikely □	Potential (presence of two or more indicators)	ence of two c	r more indicat	_	Suspect (one or more indicators with a severity of 3)	indicators with a	severity of	3) 🗌 Obvious	

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

Section 1: Bac	kgrou	nd Data								
Subwatershed:						Outfal	l ID:	1-24		
Today's date:	7	12-10			***	Time	(Military):			
Investigators:	'N	-12-10 -min	•	•		Form	completed by:			, ,, 10, 10, 10, 10, 10, 10, 10, 10, 10,
Temperature (°F	):			Rainf	all (in.): Last 24 hours:	0 Last 48	hours: 0			12 12 11
Latitutde: 2358	837.854		Longitu	ude:		GPS U	Jnit:		GPS LMK	¥:
Camera: Nikon-						Photo	#s:			
Land Use in Dra	inage Ar	ea (Check ail th	at apply):					1		
[7]-Industrial						□ Op	en Space			·
☐ Ultra-Urban I	Residenti	ial				☐ Ins	titutional			
Suburban Res	sidential					Other:	•			
Commercial						Know	n Industries: _			· ·
Section 2: Out	fall De	scription			nnows, vegetation along					
LOCATIO	N		ERIAL			IAPE	· · · · · ·	DIMENSIO		SUBMERGED
		□ RCP	☐ HD		☐ Circular	☐ Doubl		Diameter/Dimens	ions:	In Water:  → No  □ Partially
Closed Pipe		Steel			Вох	☐ Triple				☐ Fully
,		Other:			Other:	Other				With Sediment:  → No  □ Partially □ Fully
☐ Open drainag	e	Concrete Earthen rip-rap Other:			☐ Trapezoid ☐ Parabolic ☐ Other:			Depth: Top Width: Bottom Width:		Lituiy
☐ In-Stream		(applicable w	han aalla	oting	somples)					
Flow Present?		☐ Yes		No No		ip to Section	. 5		<u> </u>	
Flow Description (If present)	,	☐ Trickle	□Мо	•	<u> </u>	7 10 0001101				
Section 3: Qua	ntitati	ve Characte	rizatio	n						
					FIELD DATA FOR F	LOWING	OUTFALLS			
P	ARAME	TER		:	RESULT	<del></del>		INIT	E	QUIPMENT
□Flow#1		Volume					]	Liter		······································
[]riow#1		Time to fill						Sec		
		Flow depth						Ín	<del></del>	
□Flow #2		Flow width	<u>c</u>	" "			. I	t, In	**-	· •
1.0W #Z	N	leasured length	<u>c</u>	<u>)</u> '"			I	t, In		
;	,	Time of travel						Sec		
Т	remperat	ure			-			°F		
	pН						pН	Units	Te	st strip/Probe
	Ammon	ia					1	opm		Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?

1			1		1			•			_		_			_	-	$\overline{}$
(1-3)	7 2 Motiocopie from 2	distance	3 - Clearly wisible in	outfall flow	3 – Opaque	3 - Some; origin clear (e.g., obvious oil	sheen, suds, or floating sanitary materials)				5							
RELATIVE SEVERITY INDEX (1-3)		LJ 2 – Easily detected	2 - Clearly visible in	sample bottle	2-Cloudy	2 – Some; indications of origin (e.g.,	possible suds or oil sheen)				COMMENTS		nd algae					f3) 🗌 Obvious
REL			ors in	tle	oudiness	ıt; origin		3					sediment and algae					severity o
		∐ I – Faint	1 - Faint colors in	sample bottle	☐ 1 – Slight cloudiness	☐ 1 – Few/slight; origin	not obvious			tion 6)								dicators with a
DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas		wn	nge 🗌 Red 🖂 Other:	See severity	, etc.)	Other:		Flowing Outfalls	Tyes Y-No (If No, Skip to Section 6)	DESCRIPTION	Spalling, Cracking or Chipping	☐ Flow Line ☐ Paint ☐ Other:	ive Inhibited	☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Excessive Algae ☐ Other:	☐ Orange ☐ Green ☐ Other:		dicators) Suspect (one or more indicators with a severity of 3)
•		Other	☐ Brown	Orange		Sewage (Toilet Paper, etc.)	☐ Petroleum (oil sheen)		and Non-	present?	·	Spal	Oily	☐ Excessive	Odors	☐ Brown		or more i
	☐ Sewage	Sulfide	Clear	Green		☐ Sewage	☐ Petroleu		th Flowing	ated to flow	Present		_				ization	ence of two
CHECK if Present		֓֞֞֟֟֝֞֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֟֝֟֟֟֟֟		ַ				nce due to low tide	dicators for Bo	that are not rela	CHECK if Present						tfall Character	☐ Potential (presence of two or more indicators)
INDICATOR	Odor		rolo		Turbidity	Floatables -Does Not Include	Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indicators for Both Flowing and Non-Flowing Ourfalls	Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	Unlikely

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

Section 1: Bac	ekgrou	nd Data							
Subwatershed:					Outfal	l ID:	Pail	THE 'A' Shele was	
Today's date:		7-12-10			Time (	(Military):			
Investigators:		R mn			Form	completed by:	•		, ,
Temperature (°F)	):		Rain	fall (in.): Last 24 hours:	0 Last 48	3 hours: 0			
Latitutde: 2358	837.854	Lon	gitude:		GPS U	Jnit:		GPS LMK #	:
Camera: Nikon-					Photo	#s:			
Land Use in Drai	inage Ar	rea (Check all that app	ly):						
☑ Industrial					□Ор	en Space			
Ultra-Urban I	Resident	ial			☐ Ins	titutional		-	
Suburban Res	sidential	,			Other:		· · · · · · · · · · · · · · · · · · ·		
Commercial					Knowr	n Industries: _			
Section 2: Out	fall De	escription		innows, vegetation along o					7
LOCATIO	N	MATERIAI		<del></del>	IAPE		DIMENSIC		SUBMERGED
			CMP	Circular	☑ Single		Diameter/Dimens	sions:	In Water:  ☑ No
			HDPE	☐ Eliptical	Double	е	,		☐ Partially ☐ Fully
Closed Pipe		Steel Steel		□ Box	☐ Triple				With Sediment:
		Other:	_	Other:	Other:				Min Stantistic  No □ Partially □ Fully
		Concrete					1		
<u> </u>		☐ Earthen		☐ Trapezoid			Depth:		
Open drainage	e	□ гір-гар		☐ Parabolic			Top Width:	_	
		☐ Other:		☐ Other:			Bottom Width: _		
☐ In-Stream		(applicable when co	llecting	samples)	7				
Flow Present?	<del></del>	☐ Yes	r∐ <sub>N</sub> o		ip to Section	n 5			<u> </u>
Flow Description (If present)	,		Moderate				1771. J.		
Section 3: Qua	ntitati	ve Characterizat	ion					_	
	•			FIELD DATA FOR FI	LOWING	OUTFALLS		•	:
P/	ARAME	TER		RESULT			JNIT	Ε <b>ς</b>	QUIPMENT
DElaw#1		Volume	<del>                                     </del>			]	Liter		·
∏Flow#I		Time to fill					Sec		
		Flow depth					In		-
□Flow #2		Flow width	<u>0</u> ' "	7		F	Ft, In		
□riow #2	N	Aeasured length	<u>0</u> ' "	,		F	t, In		
	,	Time of travel					Sec		
T	emperat	lure					°F		
	pН			·		pH	Units	Tes	st strip/Probe
	Ammon	ia		•	-	1	ppm	,	Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

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

☐ Potential (presence of two or more indicators)

☐ Obvious

 $\hfill \square$  Suspect (one or more indicators with a severity of 3)

Section 1: Bac	ekgrou	nd Data							
Subwatershed:					Outfall ID:	P	24	•	
Today's date:	7	-12-16	)		Time (Milita	ry):	,		
Investigators:		Mil			Form comple	eted by:			
Temperature (°F	):		Rainf	all (in.): Last 24 hours:	0 Last 48 hours	:: 0			
Latitutde: 2358	837.854		Longitude:	,	GPS Unit:			GPS LMK #	
Camera: Nikon-					Photo #s:				
Land Use in Dra	inage Ar	ea (Check all that	apply):						
☑ Industrial					Open Spa	ice			
☐ Ultra-Urban l	Resident	ial ;			Institution	nal		٠	
Suburban Res	sidential				Other:	•	T		
Commercial					Known Indus	stries:			
Notes (e.g, orig			rge crabs, Mir	nnows, vegetation along c	anal is sparse, tra	sh on si	de of canal, paper a	·	
LOCATIO	N	MATER	RTAL	SHA	APE	1	DIMENSIO	NS (IN.)	SUBMERGED
	·	□ RCP	□ СМР	☑ Circular	Single		Diameter/Dimens	ions:	In Water:
<u> </u>		□ PVC	HDPE	☐ Eliptical	☐ Double		24"		≥ No ☐ Partially
Closed Pipe		☐ Steel	_	☐ Box	Triple				Fully
		M-Other: Con	<u>v</u>	Other:	Other:	=			With &ediment:  No Partially Fully
Open drainag	e .	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid           ☐ Parabolic           ☐ Other:			Depth: Top Width: Bottom Width:		
☐ In-Stream		(applicable whe	on collecting	samples)		· · · · · ·			
Flow Present?	· · · · · · · · · · · · · · · · · · ·	☐ Yes	No	**************************************	p to Section 5				
Flow Description (If present)		☐ Trickle	☐ Moderate		, io because 5				
Section 3: Qua	ntitati	ve Characteri	ization	•					
				FIELD DATA FOR FL	OWING OUTF	ALLS		- 4	
P.	ARAME	TER		RESULT			NIT	EQ	UIPMENT
		Volume				L	iter	· · · · · · · · · · · · · · · · · · ·	
□Flow#1		Time to fill				1	Sec		
		Flow depth					In		
<b></b>		Flow width	0, "			F	t, In		
□Flow #2	N	Acasured length	0, "			F	t, In		
	<u> </u>	Time of travel		•			Sec		
	remperat	ture					°F		
	pН		-	·			Units	Tes	t strip/Probe
-	Ammon	ia				р	pm		Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

		om a	le in		clear oil floating als)									,	
	(1-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	3 - Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)			S							
	RELATIVE SEVERITY INDEX (1-3)	2 – Easily detected	2 – Clearly visible in sample bottle	2 - Cloudy	2 - Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS	13	algae					Obvious (
	RELAT			-						sediment and algae					severity of 3
		□ I – Faint	☐ 1 — Faint colors in sample bottle	☐ 1 – Slight cloudiness	☐ 1 — Few/slight; origin not obvious		on 6)								licators with a
			1				(Jf No, Skip to Section 6)	Z	Peeling Paint	Other:	<u></u>	s 🔲 Oil Sheen Other:	Other:	,	Suspect (one or more indicators with a severity of 3)
	Z.	m/gas	Yellow Other:					DESCRIPTION	pping			Floatables Flgae	Green		] Suspect (o
	DESCRIPTION	our 🔲 Petroleum/gas	Gray	See severity	Suds Other:		wing Outfalls ] Yes   No	,	Spalling, Cracking or Chipping Corrosion	Flow Line Paint	☐ Inhibited	☐ Colors ☐ Excessive Algae	Orange		
		☐ Rancid/sour ☐ Other:	☐ Brown ☐ Orange		Sewage (Toilet Paper, etc.)		nd Non-Flov resent?		Spalling, C	□ Oily □ I	☐ Excessive	Odors Suds	☐ Brown		r more indica
		Sewage Sulfide	Clear Green		Sewage (Toilet Paper		th Flowing a	Present						ization	ence of two o
1	CHECK if Present					se due to low tide	icators for Bo hat are not rela	CHECK if Present						all Character	☐ Potential (presence of two or more indicators)
	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	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?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	Vonlikely   I
					T	Note	Sect	[			₹.			Sect	乜

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

. Obvious

Section 1: Bac	ckgrou	nd Data						
Subwatershed:					Outfall ID:	Pre		
Today's date:	7.	12-10			Time (Military):			
Investigators:	<u> </u>	- 1	niN	<del>-</del>	Form completed by	<i>r</i> :		
Temperature (°F	·):	· · · · · · · · · · · · · · · · · · ·	Rainf	fall (in.): Last 24 hours:	0 Last 48 hours: 0			
Latitutde: 2358	3837.854		Longitude:		GPS Unit:		GPS LMK #	t:
Camera: Nikon-					Photo #s:	2064		
Land Use in Dra	inage Ar	ea (Check all th	iat apply):	·		— <i>U</i>		
🗹 Industrial					Open Space			
Ultra-Urban	Residenti	ial			☐ Institutional			
Suburban Re	sidential				Other:			
Commercial					Known Industries:			<del></del>
Section 2: Out	tfall De	escription		nnows, vegetation along c				
LOCATIO	N		ERIAL	· · · · · · · · · · · · · · · · · · ·	APE	DIMENSIO		SUBMERGED
		RCP	☐ CMP	⊠-Ĉircular	Single	Diameter/Dimen	isions:	In Water:
		☐ PVC	☐ HDPE	☐ Eliptical	☐ Double	6''	<del></del>	Partially
Closed Pipe		⊠Steel		□Вох	☐ Triple			☐ Fully
1		Other:		Other:	Other:			With Sediment:
								1 Partially Fully
		Concrete						
		☐ Earthen		☐ Trapezoid		Depth:		
Open drainag	ge	☐ rip-rap	•	Parabolic		Top Width:		
		Other:		Other:		Bottom Width: _		
☐ In-Stream			hen collecting	samples)				
Flow Present?		☐ Yes	<u></u>		p to Section 5		<u></u>	· .
Flow Description (If present)		☐ Trickle	☐ Moderate					
Section 3: Qua	ntitati	ve Characte	erization					
				FIELD DATA FOR FL	LOWING OUTFALLS		:	
P.	ARAME	TER		RESULT	4.1.	UNIT	EC	QUIPMENT
□Flow#1		Volume				Liter		
		Time to fill				Sec		
		Flow depth				In		
☐Flow #2		Flow width	0, "		,	Ft, In		
LIFIUW #2	M	leasured length	0' "			Ft, In		
	,	Time of travel				Sec		
	remperat r	ure				°F		NB-88-16
	pН				pI	-I Units	Tes	st strip/Probe
	Ammon	ia		•	İ	ppm		Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow? 
Yes Allo

INDICATOR	CHECK if Present		DESCRIPTION	IPTION		R	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ F	☐ Petroleum/gas		□ 1 – Faint	2 - Easily detected	3 – Noticeable from a distance
Color		Clear	☐ Brown ☐ C	☐ Gray ☐ ☐ Red ☐	☐ Yellow ☐Other:	☐ 1 – Faint colors in sample bottle	2 Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbidity			See se	See severity		☐ I – Slight cloudiness	2-Cloudy	3 - Opaque
Floatables -Does Not Include Trash!		Sewage (Toilet Paper	, etc.)	Suds		1 – Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	uence 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?	ndicators for Botlers that are not relat	h Flowing a ted to flow p	and Non-Flowing O	ing Outfalls Yes 🔀 No	(If No, Skip to Section 6)	tion 6)		
INDICATOR	CHECK if Present	resent		DESCI	DESCRIPTION		COMMENTS	S
Outfall Damage			Spalling, Cracking or Chipping	g or Chipping	Peeling Paint			
Deposits/Stains			☐ Oily ☐ Flow Lin	☐ Flow Line ☐ Paint	Other:	sediment	sediment and algae	
Abnormal Vegetation			☐ Excessive ☐ Inh	Inhibited				
Poor pool quality			Odors Col	Colors	☐ Floatables ☐ Oil Sheen ae ☐ Other:			
Pipe benthic growth			☐ Brown ☐ Ora	Orange	☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	utfall Characteriz	zation				·		
[XUnlikely [	☐ Potential (prese	ence of two c	Potential (presence of two or more indicators)	snS 🗌	spect (one or more ir	Suspect (one or more indicators with a severity of 3)	of3) $\square$ Obvious	
Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?	Illicit Discharge C	Concerns (e.	.g., trash or needed	infrastruct	ture repairs)?	10 10 10 10 10 10 10 10 10 10 10 10 10 1		

Section 1: Bac	ekground Data									
Subwatershed:						Outfall ID:				
Today's date:	アイン	-10				Time (Milita	ıгу):		`	
Investigators:	R N	J W				Form compl	eted by:	. 1		
Temperature (°F)	):		Rainf	fall (in.): Last 24 hou	urs: 0	Last 48 hours	s: 0			
Latitutde: 2358	837.854	Long	gitude:			GPS Unit:			GPS LMK #	<del>f</del> :
Camera: Nikon-						Photo #s:	DE	069		
Land Use in Drai	inage Area (Check	all that apply	y):	•						
Industrial						Open Spa	ace	•		
Ultra-Urban F	Residential					Institutio	nal			
Suburban Res	sidential					Other:	<u> </u>			
Commercial						Known Indu	stries:			
· · · · · · · · · · · · · · · · · · ·	in of outfall, if knov		abs, Mir	nnows, vegetation alor	ng canal	is sparse, tra	ish on sid	le of canal, pape	and plastic.	
LOCATION		IATERIAL	+ 5		SHAPE	2		DIMENSI	ONS (IN.)	SUBMERGED
	RCP		СМР	Circular	<del></del>	Single		Diameter/Dime		In Water:
	□PVC	□ ŀ	HDPE	☐ Eliptical	- 17	Double		4!	<del></del>	No ☐ Partially ☐ Fully
Closed Pipe	∑Ž-Steel			☐ Box		Triple	ļ			Fully
<b>'</b>	Other:	: <u></u>	-	☐ Other:		Other:	-			With Sediment: No Partially
·									<del></del>	Fully
	Concr	ete		☐ Trapezoid				Depth:		
Open drainage	☐ Earthe	n		☐ Parabolic				_		
Upen uranang	e □ rip-rap	)						Top Width:		
	Other:			Other:				Bottom Width:		
☐ In-Stream	(applicab	le when col	lecting	samples)		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		-	
Flow Present?	☐ Yes		W.W.	If No,	Skip to	Section 5				· · · · · · · · · · · · · · · · · · ·
Flow Description (If present)	☐ Trickle	= □ M	/ Ioderate	Substantial			**		<del>-</del> . "	
Section 3: Qua	ntitative Chara	octerizati	on							
		1000112411		FIELD DATA FOR	R FLOW	VING OUTF	ALLS		• • • • • • • • • • • • • • • • • • • •	
P/	ARAMETER		- ,	RESULT			<u> </u>	NIT		QUIPMENT
— n	Volume			<u> </u>	<u> </u>			iter	***	<u> </u>
□Flow#1	Time to fi	11					S	Sec		·
	Flow dept	th	•					In		
FTe1 #9	Flow widt	th	<u>0</u> ' "				Ft	t, In		
□Flow #2	Measured le	ngth	0, "			-	Fi	t, In		
Ī	Time of tra	vel				•	S	Sec		
T	emperature						•	°F		P-0-1-10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
	pН						pH	Units	Te.	st strip/Probe
	Ammonia						^ vı	nm'		Test strin

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?

(1-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	3 - Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)			S								
RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	2 – Clearly visible in sample bottle	2-Cloudy	2 - Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		d algae					3) 🗌 Obvious	
RELA	□ 1 – Faint	1 - Faint colors in sample bottle	☐ 1 – Slight cloudiness	1 – Few/slight; origin not obvious		ion 6)			sediment and algae					dicators with a severity of	
DESCRIPTION	ge 🗌 Rancid/sour 🗌 Petroleum/gas le 🔲 Other:	☐ Brown ☐ Gray ☐ Yellow  ☐ Cray ☐ Cray ☐ Corange ☐ Red ☐ Other:	See severity	<ul> <li>□ Sewage (Toilet Paper, etc.)</li> <li>□ Suds</li> <li>□ Petroleum (oil sheen)</li> <li>□ Other:</li> </ul>		g and Non-Flowing Outfalls  w present?	DESCRIPTION	Spalling, Cracking or Chipping   Peeling Paint	Oily Plow Line Paint Other:	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	☐ Brown ☐ Orange ☐ Green ☐ Other:		o or more indicators) Suspect (one or more indicators with a severity of 3)	
CHECK if Present	Sewage	☐ Clear		Sew2	ce due to low tide	icators for Both Flowir hat are not related to flo	CHECK if Present					<u> </u>	fall Characterization	Potential (presence of two or more indicators)	
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indicators for Both Flowing and Non-Flowin Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	☐ Unlikely ☐ I	

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

Section 1: Bac	ekgrou	nd Data						
Subwatershed:					Outfall ID:			<del></del>
Today's date:		7-12	10		Time (Military):	· · · · · · · · · · · · · · · · · · ·	****	(
Investigators:	R	MIN			Form completed by	,		
Temperature (°F	'):		Rain	fall (in.): Last 24 hours:	0 Last 48 hours: 0			1,000
Latitutde: 2358	8837.854	L	ongitude:		GPS Unit:		GPS LMK #	<i>t</i> :
Camera: Nikon-					Photo #s:	069		
Land Use in Drai	inage Ar	rea (Check all that a	pply):			<del></del>		
[] Industrial					☐ Open Space			
☐ Ultra-Urban I	Resident	ial			☐ Institutional			
Suburban Res	sidential			·	Other:	<del></del>		
Commercial					Known Industries:			
Notes (e.g, origi			e crabs, Mi	nnows, vegetation along o	canal is sparse, trash on s	ide of canal, paper	and plastic.	
LOCATIO		MATERI	AL	SH	APE	DIMENSIC	NS (IN.)	SUBMERGED
		□RCP [	СМР	√ Circular	☑-Single	Diameter/Dimen		In Water:
		4	HDPE	☐ Eliptical	☐ Double	6"	<del></del> -	☑ No ☐ Partially ☐ Fully
Closed Pipe		Steel		☐ Box	Triple			With Sediment:
		Other:		Other:	Other:			(□;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)	J. s			
Flow Present?		☐ Yes	D/No		p to Section 5	<del></del>		
Flow Description (If present)			Moderate		p to occur.	· · · · · · · · · · · · · · · · · · ·		
——— Section 3: Qua	ntitati	ve Characteriz	ation					
				FIELD DATA FOR FI	LOWING OUTFALLS		:	
P/	ARAME	TER		RESULT		JNIT	. E(	QUIPMENT
		Volume		<del></del>		Liter	*	<u> </u>
□Flow#1		Time to fill				Sec		
		Flow depth				In		
□Flow #2		Flow width	0, "	,	. 1	Ft, In		
∐r10w #4	M	leasured length	<u>0</u> ' "	,	I	Ft, In	<del></del>	
	,	Time of travel			1	Sec		
Т	emperat	ure		. ,		°F		
	pН				pH	I Units	Tes	st strip/Probe
	Ammon	ia				npm		Test strip

Gray   Yellow   Red   Other:   See severity	t colors in	☐ 3 – Noticeable from a distance ☐ 3 – Clearly visible in outfall flow ☐ 3 – Opaque ☐ 3 – Some; origin clear ☐ 6.g., obvious oil sheen, suds, or floating
☐ Yellow ☐ Other: ☐ Other:  [ [	t colors in sample bottle  and cloudiness	3 - Clearly visible in outfall flow  3 - Opaque  3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sheen, suds, or floating
(HNo, Skip to Sective ESCRIPTION ping   Peeling Paint	At cloudiness	3 - Opaque 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating
(If No, Skip to Section FESCRIPTION Ping   Peeling Paint	slight; origin of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating
Ping ping		sanitary materials)
Ping aint		
DESCRIPTI Spalling, Cracking or Chipping Corrosion Oily Tlow Line Paint		
Spalling, Cracking or Chipping Corrosion Oily Thow Line Paint	COMMENTS	
Oily Plow Line Paint		
	sediment and algae	
☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen☐ Suds ☐ Excessive Algae ☐ Other:		
☐ Brown ☐ Orange ☐ Green ☐ Other:	The state of the s	

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

☐ Potential (presence of two or more indicators)

CA. Unlikely

□ Obvious

 $\hfill \square$  Suspect (one or more indicators with a severity of 3)

Section 1: Bac	kgrou	nd Data							
Subwatershed:					Outfall ID:				
Today's date:	7-1	17-10			Time (Militar	y):			
Investigators:	'N	MIA			Form complet	ted by:			
Temperature (°F)	):			infall (in.): Last 24 hours:	0 Last 48 hours:	0			
Latitutde: 2358	837.854		Longitude		GPS Unit:			GPS LMK#	ł:
Camera: Nikon-				- 1 <del>-</del>	Photo #s:	00	40		
Land Use in Drai	inage Are	ea (Check all tha	at apply):						
∯Jndustrial					Open Space	ce			
Ultra-Urban F	Residenti	al			☐ Institution	al			
☐ Suburban Res	sidential				Other:				
Commercial					Known Indust	tries:			
Notes (e.g, origi	<u>.</u>		arge crabs, f	Minnows, vegetation along c	anal is sparse, tras	h on si	de of canal, paper a	and plastic.	
LOCATIO	N	MATE	RIAL	SHA	APE		DIMENSIO	NS (IN.)	SUBMERGED
		RCP	□СМР	Circular Circular	Single		Diameter/Dimens	ions:	In Water:
		□PVC	☐ HDPE	☐ Eliptical	Double		6 K		No Partially
Closed Pipe		<b>⋉</b> Steel		☐ Box	☐ Triple				☐ Fully
		Other:		Other:	Other:				With Sediment:
									Partially Fully
		Concrete					Depth:		
Open drainag	••	☐ Earthen		☐ Parabolic			İ		
Ш Орен шашад	;e	☐ rip-rap					Top Width:		
		Other:	_	Other:			Bottom Width:	<del></del>	
☐ In-Stream		(applicable wl	hen collecti	ıg samples)					панания панания по пределения
Flow Present?		□ Yes	12	lo If No, Ski,	ip to Section 5				
Flow Description (If present)		☐ Trickle	☐ Moder	ate Substantial					
Section 3: Qua	ntitati	ve Characte	rization						
_			<del></del>	FIELD DATA FOR FL	LOWING OUTF				
P	ARAME			RESULT			NIT	E	QUIPMENT
□Flow#1		Volume					Liter		
		Time to fill					Sec		
		Flow depth Flow width	0,	"			In 't, In		
□Flow #2		Aeasured length		"			t, In		
		Time of travel	<u>-</u>				Sec		
-	I Temperat				-		°F		
	рН						Units	Te	st strip/Probe
1	r		-+						

ppm

Test strip

Ammonia

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

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

Section 1: Bac	kgrou	ņd Data	*						
Subwatershed:					- Outfall	ID:	24		<del></del>
Today's date:	7	-12-10			Time (	Military):			
Investigators:			, <del>√</del>		Form c	ompleted by:			
Temperature (°F	): '		Rainf	all (in.): Last 24 hours:	0 Last 48	hours: 0			
Latitutde: 2358	837.854		Longitude:		GPS U	nit:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	GPS LMK #	•
Camera: Nikon-		F			Photo #	fs:			
Land Use in Dra	inage Ar	ea (Check all the	at apply):						1 <del>-</del> 11-
Industrial					□Оре	n Space			
☐ Ultra-Urban l	Resident	ial			☐ Inst	itutional		•	
Suburban Res	sidential				Other:				
Commercial					Known	Industries: _		<del></del>	· · · · · · · · · · · · · · · · · · ·
Notes (e.g, orig	in of out	fall, if known): I	arge crabs, Mi	nnows, vegetation along o	canal is spar	se, trash on si	de of canal, paper	and plastic.	
Section 2: Out	fall De	escription							•
LOCATIO	N	МАТЕ	RIAL	SH	APE		DIMENSI	ONS (IN.)	SUBMERGED
		RCP	□СМР	Circular Circular	1 Single		Diameter/Dimen	sions:	In Water:
		□PVC	HDPE	☐ Eliptical	☐ Double	:	14"	<del></del>	No ☐ Partially
Elosed Pipe		□ Steel		☐ Box	☐ Triple				Fully
'		ThOther:	ONL	Other:	Other:				With Sediment:
									☐ Partially ☐ Fully
		Concrete					Б1		
		☐ Earthen		☐ Trapezoid			Depth:		
Open drainag	e	∏ rip-rap		Parabolic			Top Width:	<del></del>	
		☐ Other:	<u> </u>	☐ Other:			Bottom Width: _		
☐ In-Stream		(applicable w	hen collecting	samples)					ः सम्बन्धान्त्रभावन्त्रभावन्त्रभावन्त्रभावन्त्रभावन्त्रभावन्त्रभावन्त्रम्
Flow Present?		☐ Yes	D No	If No, Ski	p to Section	5	<del></del>		
Flow Description (If present)		☐ Trickle	☐ Moderate	☐ Substantial		·			
Section 3: Qua	ntitati	ve Characte	rization						**
				FIELD DATA FOR FI	LOWING	OUTFALLS		MI 1/1	,
P.	ARAME	TER		RESULT		U	NIT	EQ	UIPMENT
□Flow#1		Volume				]	iter		
		Time to fill					Sec		
		Flow depth					In		
∏Flow #2		Flow width	0, "	,		, F	t, In		
	λ	leasured length	0, "	·		F	t, In		
		Time of travel					Sec		
	l'emperat	ture					°F	•	<u> </u>
	pН					pH	Units	Tes	t strip/Probe
	Ammon	ia				I	ppm	•	Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?

(1-3)	3 - Noticeable from a distance	3 – Clearly visible in outfall flow	3 – Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)			S						
RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	2 – Clearly visible in sample bottle	□ 2 – Cloudy	2 ~ Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		and algae				
REI	☐ 1 – Faint	1 - Faint colors in sample bottle	1 - Slight cloudiness	1 – Few/slight; origin not obvious		ion 6)			sediment and algae				
DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Yellow . ☐ Orange ☐ Red ☐ Other:	See severity	<ul> <li>□ Sewage (Toilet Paper, etc.)</li> <li>□ Suds</li> <li>□ Petroleum (oil sheen)</li> <li>□ Other:</li> </ul>	,	and Non-Flowing Outfalls present?	DESCRIPTION	Spalling, Cracking or Chipping Paint Corrosion	Oily Flow Line Paint Other:	☐ Excessive ☐ Inhibited	Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	☐ Brown ☐ Orange ☐ Green ☐ Other:	
CHECK if Present	Sewage	☐ Clear ☐ Green		Sewage	e to low tide	ors for Both Flowing are not related to flow	CHECK if Present						Characterization
INDICATOR P	Odor	Color	Turbídity	Floatables -Does Not Include Trash!!	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?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization

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

 $\hfill \square$  Potential (presence of two or more indicators)

V Unlikely

□ Obvious

☐ Suspect (one or more indicators with a severity of 3)

Section 1: Bac Subwatershed:	kgrou	nd Data			0611	· vv.	0 10	<b></b>	
Today's date:	12.	<u>~ . 7</u>	<del> </del>		Outfall	Military):	26	·	
Investigators:	7 7	12-10				completed by:		-	
Temperature (°F)	<u> </u>	min	Rainf	fall (in.): Last 24 hours:	1	hours: 0			
Latitutde: - 2358	·		Longitude:	all (III.). Last 24 nours.	GPS U			GPS LMK #	
Camera: Nikon-			Longitude.	<del></del>	Photo #		2	Oro Livia n	·
		rea (Check all that	t anniv):		1 11010 1	rs. 00	74		
☑ Industrial			"kk-1)-		П Оре	en Space			
Ultra-Urban R	Resident	ial			☐ Inst	titutional			•
Suburban Res	sidential				Other:	·	•		
Commercial		•			Known	Industries: _			
Notes (e.g, origi			rge crabs, Mir	nnows, vegetation along c	canal is spar	se, trash on si	de of canal, paper	and plastic.	
LOCATION		MATER	RIAL	SH	APE		DIMENSIC	NS (IN.)	SUBMERGED
		RCP	СМР	Circular	Single	· · · · · · · · · · · · · · · · · · ·	Diameter/Dimen		In Water:
		□ PVC	HDPE	☐ Eliptical	☐ Double		30"		No ☐ Partially ☐ Follow
Closed Pipe		□·Steel	!	☐ Box	☐ Triple				Fully
		⊠-Other: <u>C</u> 8	DNL	Other:	Other:				With Sediment:  ☑No ☐ Partially ☐ Fully
☐ Open drainage	je	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:	•		Depth: Top Width: Bottom Width:		
☐ In-Stream		(applicable who	en collecting	samples)					: : ::::::::::::::::::::::::::::::::::
Flow Present?		☐ Yes			ip to Section	ı 5	·		
Flow Description (If present)		☐ Trickle	☐ Moderate	<del></del>					
Section 3: Qua	ntitati	ve Character	ization						
		:	· · · · · · · · · · · · · · · · · · ·	FIELD DATA FOR FI	LOWING (		1.	· · · · · · · · · · · · · · · · · · ·	
P/	ARAME			RESULT	1. 1. 1. 1.	- L <b>U</b>	NIT	EC	QUIPMENT
□Flow#1	<u> </u>	Volume		<u>.</u>		I	Liter		
		Time to fill					Sec		
		Flow depth			- 1		In		
Flow #2		Flow width	0' "				t, In		
		Measured length	0' "			F	t, In		
		Time of travel					Sec		
T	remperat	ture					°F		
	pН					pН	Units	Te:	st strip/Probe
	Ammon	าเล				r	opm		Test strip

	RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected distance	2 - Clearly visible in 3 - Clearly visible in outfall flow	2-Cloudy	2 – Some; indications			COMMENTS		91					
	RELATIV	□ 1 - Faint	☐ 1 – Faint colors in san	☐ 1 – Slight cloudiness	☐ I – Few/slight; origin not obvious		(9 11			sediment and algae					
tfalls Only Yes Wyo (If No. Skip to Section 5)	DESCRI	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Yellow ☐ ☐ Orange ☐ Red ☐ Other:	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other.		Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls  Are physical indicators that are not related to flow present?   Yes Myo (If No, Skip to Section 6)	DESCRIPTION	Spalling, Cracking or Chipping   Peeling Paint   Corrosion	Oily Plow Line Paint Other:	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other.	☐ Brown ☐ Orange ☐ Green ☐ Other:		
cators for Flowing Outf		Sewage [] Sulfide	☐ Clear		☐ Sewage ☐ Petroleu	due to low tide	cators for Both Flowing at are not related to flow	CHECK if Present						II Characterization	
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?  Are	INDICATOR	Odor	Color	Turbidity	Floatables -Docs Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	[

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

Section 1: Bac	ckgrou	ınd Data			• .				
Subwatershed:					Outfall ID:	2	7-01		***
Today's date:	7-	12-10			Time (Military	/ <b>)</b> :			
Investigators:	K	~ MIN			Form complete	ed by:	<u> </u>		
Temperature (°F	'):		Rainf	fall (in.): Last 24 hours:	0 Last 48 hours:	0			
Latitutde: 2358	3837.854	Lo	ongitude:		GPS Unit:			GPS LMK #	
Camera: Nikon-		*****			Photo #s:				
Land Use in Dra	inage Ar	rea (Check all that ap	ply):				· · · · · · · · · · · · · · · · · · ·		
Industrial					Open Space	e			
Ultra-Urban	Resident	ial			☐ Institutiona	ıI			
Suburban Re	sidential				Other:				
Commercial					Known Industr	ries: _			· · · · · · · · · · · · · · · · · · ·
Notes (e.g, orig	in of out	:fall, if known): large	crabs, Mi	nnows, vegetation along c	anal is sparse, trasl	ı on si	de of canal, paper a	und plastic.	
						_			·
Section 2: Out	fall De	escrintion	,		,				
LOCATIO		MATERIA	AL	SHA	APE		DIMENSIO	NS (IN.)	SUBMERGED
		□ RCP □	СМР	Circular	Single		Diameter/Dimens	· · · · · · · · · · · · · · · · · · ·	In Water:
		□ PVC □	HDPE	☐ Eliptical	Double		8"	·····	Partially ★ Partially
Closed Pipe		15/3teel		Вох	☐ Triple				Fully
/-		Other:		Other:	Other:				With Sediment:
						,			Partially Fully
		Concrete			l	<del></del>			
		☐ Earthen		☐ Trapezoid			Depth:	•	
☐ Open drainag	;e	☐ rip-rap		☐ Parabolic			Top Width:	_	
				☐ Other:			Bottom Width:		
	<del>,</del>	Other:		samples		7.		· · · · · · · · · · · · · · · · · · ·	
☐ In-Stream	·	(applicable when	<del></del>	samples)	#*			<u> </u>	
Flow Present?		Yes .	<del>/</del> 2000	··· ·	p to Section 5	e .			· · · · · · · · · · · · · · · · · · ·
Flow Description (If present)	•	Trickle	] Moderate	Substantial					
Section 3: Oua	ntitati	ive Characteriza	ation						
				FIELD DATA FOR FL	OWING OUTFA	LLS			
P	ARAME	TER		RESULT		U	NIT	EQ	UIPMENT
□Flow#1		Volume				I.	iter		
		Time to fill					Sec		
		Flow depth		<u>.</u>			In		
□Flow #2		Flow width	0, "	<u> </u>		F	t, In		
		Aeasured length	0' "	, ,,,,,		F	t, In		· /
	l 	Time of travel			•		Sec		
	remperat	ture		77 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			°F		
	рH	<del> </del>				pН	Units	Tes	strip/Probe
	Ammon	iia				p	pm	. 1	Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

INDICATOR	CHECK if Present		<b>.</b>	DESCRIPTION			RELATIVE SEVERITY INDEX (1-3)	(1-3)
. Odor		Sewage Sulfide	Rancid/sour	our 🔲 Petroleum/gas	ngas	□ 1 – Faint	2 - Easily detected	3 – Noticeable from a distance
Color		Clear	☐ Brown ☐ Orange	Gray	☐ 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	s	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (	Sewage (Toilet Paper, etc.)	) Suds		☐ 1 — Few/slight; origin not obvious	n 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 influence due to low tide	ence 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?	ndicators for Botl s that are not relat	h Flowing a ted to flow p	and Non-Flow	ving Outfalls Yes KNo	(f No, Skip to Section 6)	zction 6)		
INDICATOR	CHECK if Present	resent		1	DESCRIPTION		COMMENTS	TS
Outfall Damage			Spalling, Corrosion	Spalling, Cracking or Chipping Corrosion	ping 🔲 Peeling Paint	int		
Deposits/Stains			□ Oily □ F	Flow Line Paint	aint Other:	sedi	sediment and algae	
Abnormal Vegetation			☐ Excessive	☐ Inhibited				
Poor pool quality			Odors Suds	☐ Colors ☐ Excessive Algae	☐ Floatables ☐ Oil Sheen Igae ☐ Other:	nec		
Pipe benthic growth			☐ Brown	Orange	☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	ıtfall Characteriz	zation						

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

☐ Potential (presence of two or more indicators)

女 Unlikely

□ Obvious

☐ Suspect (one or more indicators with a severity of 3)

Section I: Bac	ckgrou	ind Data							
Subwatershed:					Outfall	ID:	27		
Today's date:	7-	-12-10			Time (i	Military):			
Investigators:	"R	-12-1D -MIW			Form c	ompleted by:			
Temperature (°F	·):		Rain	nfall (in.): Last 24 hours:	0 Last 48	hours: 0			
Latitutde: 2358	3837.854		Longitude:		GPS Ur	nit:		GPS LMK	#:
Camera: Nikon-					Photo #	łs:			
Land Use in Dra	inage Ar	rea (Check all tha	at apply):						
Industrial					☐ Ope	en Space			
Ultra-Urban I	Resident	ial			☐ Inst	itutional			
Suburban Res	sidential				Other:	·			
Commercial		•			Known	Industries: _	<u> </u>		
	<u> </u>		arge crabs, M	innows, vegetation along c	anal is spars	e, trash on s	ide of canal, paper	and plastic.	-
Section 2: Out LOCATIO		T	RIAL	SH	APE		DIMENSIO	ONS (IN.)	SUBMERGED
	*	RCP	СМР	≰ Circular	Single		Diameter/Dimen		In Water:
		□PVC	☐ HDPE	Eliptical	Double	•	<u> </u>	·	No Partially
Closed Pipe		 Steel		□Box	☐ Triple				Fully
141 01000 1		Other:	TONU	Other:	Other:	·			With Sediment:
		Culci					·		≫No ☐ Partially ☐ Fully
		☐ Concrete		Tennoroid			The state of		
·		☐ Earthen		☐ Trapezoid		÷	Depth:		
Open drainag	ţe.	☐ rip-rap		Parabolic			Top Width:		
		Other:		Other:			Bottom Width: _		
☐ In-Stream		(applicable wh	nen collecting	(samples)	1.7				
Flow Present?		Yes	□ No		p to Section	5		<del> </del>	
Flow Description (If present)	J	☐ Trickle	☐ Moderate						
Section 3: Qua	ıntitati	ive Characte	rization						
		* .		FIELD DATA FOR FL	LOWING	OUTFALLS			
P	ARAME	TER		RESULT		<u> </u>	UNIT	E/	QUIPMENT
□Flow#1		Volume					Liter		
		Time to fill					Sec		
		Flow depth					In		
□Flow #2		Flow width		"			Ft, In		
		Measured length	0,.	,		J	Ft, In		
<u> </u>	<u> </u>	Time of travel				:	Sec		
	Temperat	ture		·			°F		
	pН					pI:	I Units	Te	est strip/Probe
	Ammon	ıia					ppm		Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow? 
Yes No

-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	3 - Opaque	3 - Some, origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)									
RELATIVE SEVERITY INDEX (1-3)	2-Easily detected	2 – Clearly visible in sample bottle	☐ 2 – Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		nd algae				
REL	□ 1 – Faint	☐ 1 – Faint colors in sample bottle	☐ 1 — Slight cloudiness	☐ 1 — Few/slight; origin not obvious		ion 6)			sediment and algae				
DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	See severity	, etc.) USuds		Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	DESCRIPTION	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	☐ Brown ☐ Orange ☐ Green ☐ Other:	
CHECK if Present	Sewage Sulfide	☐ Clear ☐ Green		Sewage (Toilet Paper	due to low tide	ators for Both Flowing ; t are not related to flow	CHECK if Present	,					l Characterization
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trashi!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization

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

☐ Potential (presence of two or more indicators)

D Unlikely

□ Obvious

 $\square$  Suspect (one or more indicators with a severity of 3)

Section 1: Bac	kgrou	nd Data								
Subwatershed:					•	Outi	all ID:			
Today's date:						Tim	e (Military):			
Investigators:						Forn	n completed by:		· · ·	
Temperature (°F)	):		Rainf	fall (in.): Last 24 h	ours: 0	Last-	48 hours: 0	-		
Latitutde: 23588	837.854	Lon	gitude:			GPS	Unit:		GPS LMK #	
Camera: Nikon-						Phot	o #s:	•		
Land Use in Drain	nage Аг	ea (Check all that app	ly):				1			
Industrial				FA	K		pen Space			
Ultra-Urban R		ıaı			, 	ا الناء	nstitutional			
Suburban Res	idential			In/st	7 B	Othe	f:	•		
Commercial					1 -	Kno	wn Industries: _		<u></u>	
Notes (e.g, origin	n of out	fall, if known): large	rabs, Mi	nnows, vegetation a	longcan	al is sp	oarse, trash on si	de of canal, paper	and plastic.	
			-	H	1.7	1/	-0		<del>)</del>	7
Section 2: Out	fall De	escription			(1)	1	-/	7/	/_/	<del></del> .
LOCATION	N	MATERIA	L		SHAF	PE (	V	DIMENSIO	NS (IN.)	SUBMERGED
		□ RCP □	СМР	☐ Circular		Sing	le	Diameter/Dimen	sions:	In Water:
,		□ PVC □	HDPE	☐ Eliptical	์ [E	] Dou	ble	///	4] [f	□ No □ Partially □ Fully
Closed Pipe		☐ Steel		□Box		] Trip	le		, , ,	
		Other:	_	☐ Other:		Othe	er:		· •	With Sediment:
	•									☐ Partially☐ Fully
		Concrete								
		☐ Earthen		☐ Trapezoid				Depth:	•	
Dopen drainage	e	☐ rip-rap		Parabolic				Top Width:	_	
		☐ Other:		☐ Other:		•		Bottom Width: _		
☐ In-Stream			.11				· *			
	·	(applicable when co	.,, -		art.				·•	<u> </u>
Flow Present?		☐ Yes	☐ No	If No	o, Skip t	o Secti	on 5			
Flow Description (If present)		☐ Trickle ☐	Moderate	Substantial					· ·	
Section 3: Quar	ntitati	ve Characteriza	ion							
				FIELD DATA FO	OR FLO	WING	OUTFALLS			
P.A	ARAME	TER		RESULT				NIT	EQ	UIPMENT
□Flow#1		Volume					_ I	iter		
	-	Time to fill						Sec		
		Flow depth						In		•
□Flow #2		Flow width	0, ,	•			F	t, In		
	Ν	leasured length	0, ,	•			F	t, In		
		Time of travel						Sec		
Т	emperat	fure						°F		
	pН					. <del>.</del> <del></del>	pН	Units	Tes	t strip/Probe
	Ammon	ia .					· p	pm		Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?  Yes CHECK if CHECK if	ators Present in the CHECK if	owing Outfalls	alls Only  (s	; ; ; ;	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	Rancid/sour Petroleum/gas	□ 1 – Faint	2 – Basily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other.	☐ 1 – Faint colors in sample bottle	n 2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	1 – Slight cloudiness	ess	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (	<ul><li>□ Sewage (Toilet Paper, etc.)</li><li>□ Suds</li><li>□ Petroleum (oil sheen)</li><li>□ Other:</li></ul>	1 – Few/slight; origin not obvious	igin 0 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 influence due to low tide	ence due to low tide			; ;	No.	
Section 5: Physical Indicators for Both Flowing and Non-Flowin Are physical indicators that are not related to flow present?	ndicators for Boo s that are not rela	th Flowing a	and Non-Flowing Outfalls present?	Section 6)		
INDICATOR	CHECK if Present	Present	DESCRIPTION		COMMENTS	S
Outfall Damage			Spalling, Cracking or Chipping   Peeling Paint	Paint		
Deposits/Stains			□ Oily □ Flow Line □ Paint □ Other:	Se	sediment and algae	
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			Odors Colors Ploatables Oil Sheen Suds Excessive Algae	heen r:		
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other.	1		
Section 6: Overall Outfall Characterization	utfall Characteri	ization				
☐ Unlikely ☐	Potential (prese	ence of two c	Defential (presence of two or more indicators) Suspect (one or mor	Suspect (one or more indicators with a severity of 3)	verity of 3)	
Section 7: Any Non-l	Ilicit Discharge (	Concerns (e.	Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?			

Section 1: Bac	ekgrou	nd Data	<del></del>						٤
Subwatershed:					Outfall	HD: Q	28-01		
Today's date:					Time (	(Military):			
Investigators:					Form	completed by:	:		
Temperature (°F	): 		Rainf	fall (in.): Last 24 hours: (	0 Last 48	3 hours: 0			
Latitutde: 2358	3837.854	Lon	gitude:		GPS U	Jnit:		GPS LMK #:	:
Camera: Nikon-					Photo	#s:			
Land Use in Dra	inage Ar	ea (Check all that appl	iy):	·	•				
☐ Industrial					□Ор	en Space			
Ultra-Urban l	Residenti	ial	/	7 //	☐ Inst	titutional	•		
☐ Suburban Re	sidential	[i]	1	/ (_	Other:		1		
Commercial		$\mathcal{H}$				ı Industries:		·	
Notes (e.g, orig	in of out	fall, if known): large c	rabs, Mi	innows, vegetation along c	anal is spar	rse, trash on si	de of canal, paper	and plastic.	
					- 4 <u></u>		1117	· 1/_ (	(
Section 2: Out	reall Da	covintion	1//	149/	II.	17	MIC		
LOCATIO		MATERIAL	##	11/1 SH	APE	1/	DIMENSI	ONE (TN )	SUBMERGED
		/	CMP	☐ Circular /	☐ Single		Diameter/Dimer		In Water:
		-	/		1/	//	Diamoto/Dimo	isions.	□ No Î
		}	HDPE	- Deliptical	Dangi	_			☐ Partially ☐ Fully
Closed Pipe		Steel .		□ Box /	Triple				With Sediment:
		☐ Other:	_	Other:	Other:				□ No
							·	·	☐ Partially ☐ Fully
		☐ Concrete							
	İ	☐ Earthen		☐ Trapezoid		÷	Depth:		
Open drainag	;e	☐ rip-rap		☐ Parabolic			Top Width:	_	
		Other:		Other:			Bottom Width: _	· ·	
☐ In-Stream		(applicable when co	llecting	samples)			L		
Flow Present?		Yes	□ No		p to Section	<u> </u>	<u> </u>		:
Flow Description			<del></del>		710 1500		1		
(If present)		☐ Trickle ☐ N	Moderate	e 🔲 Substantial					
Section 3: Qua	ntitati	ve Characterizat	ion	•					
				FIELD DATA FOR FL	OWING	OUTFALLS			
P	ARAME	TER		RESULT		U	NIT	EQ.	UIPMENT
□Flow#1		Volume				L	Liter		
[] FIOW #1		Time to fill					Sec		
		Flow depth					In		
☐Flow #2		Flow width	<u>0</u> ' "	,		F	t, In	A-4-2-4	<u> </u>
∐ΓIQW π∠	M	leasured length	0, "			F	t, In		
	7	Time of travel		·			Sec		
7	Temperat	ure					°F		
·	pН		ŧ,			pН	Units	Tes	t strip/Probe
	Ammoni	ia	[		_	— – р	pm		Test strip

		eable from a	ly visible in flow	33	- Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)								  - 		
	(1-3)	☐ 3 – Noticeable from a distance	3 – Clearly visible in outfall flow	3 - Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or float sanitary materials)			S				-	!		
	RELATIVE SEVERITY INDEX (1-3)	2-Easily detected	2 – Clearly visible in sample bottle	2-Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)		,	COMMENTS		ıd algae	1				f3) 🗌 Obvious
	REL		lors in title	oudiness	,ht; origin					sediment and algae					a severity o
		1 – Faint	☐ 1 – Faint colors in sample bottle	☐ 1 – Slight cloudiness	1 – Few/slight; origin not obvious		tion 6)	-	.t			· ·			idicators with
ion 5)			<b>A</b>		·		(Jf No, Skip to Section 6)	ON	Peeling Paint	Other:		oles Oil Sheen Other:	Other:		Suspect (one or more indicators with a severity of 3)
(If No, Skip to Section 5)	Z	um/gas	☐ Yellow					DESCRIPTION	ipping	☐ Paint		☐ Floatables Algae	Green		Suspect (
(If No	DESCRIPTION	our 🔲 Petroleum/gas	☐ Gray	See severity	) Suds		ving Outfalls   Yes □ No		Spalling, Cracking or Chipping Corrosion	☐ Flow Line	☐ Inhibited	Colors	Orange		tors)
ls Only s \square \square No	1.	Rancid/sour	☐ Brown ☐ Orange		Sewage (Toilet Paper, etc.)		nd Non-Flov resent?		Spalling, Corrosion		☐ Excessive	Odors Suds	☐ Brown		r more indica
owing Outfalls	<u></u>	Sewage Sulfide	Clear		Sewage (Toilet Paper		th Flowing a ited to flow p	Present						ization	ence of two o
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?   Yes	CHECK if Present					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?	CHECK if Present						Section 6: Overall Outfall Characterization	☐ Potential (presence of two or more indicators)
Physical Ind	ATOR	)r	or	dity	bles Include 1!!	tial tidal infiuen	Physical Ind Il indicators t	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Overall Outf	
Section 4: Are Any Phy	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potent	Section 5: ] Are physica	INDI	Outfall	Deposi	Abnormal	Poor po	Pipe bent	Section 6: (	Unlikely

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

Section 1: Bac	ekgrou	nd Data							
Subwatershed:					Outfall II	D:	P 24-	-01	
Today's date:	7-	-12-10			Time (M	ilitary):			
Investigators:		- M.	$\overline{\mathcal{N}}$		Form cor	mpleted by:			
Temperature (°F		<del></del> ,		fall (in.): Last 24 hours:	0 Last 48 ho	ours: 0			
Latitutde: 2358	8837.854	L	ongitude:		GPS Unit	t:		GPS LMK #	
Camera: Nikon-					Photo #s:				
Land Use in Dra	inage Ar	ea (Check all that a	oply):						
[]Industrial					Open	Space			
Ultra-Urban	Resident	ial			☐ Institu	utional			
Suburban Re	sidential	•			Other: _	·			
Commercial					Known I	ndustries: _			
Notes (e.g, orig			erabs, Mu	nnows, vegetation along c	anal is sparse,	, trash on si	de of canal, paper	and plastic.	
LOCATIO	N	MATERI	AL	SH	APE		DIMENSIO	NS (IN.)	SUBMERGED
			CMP HDPE	☐ Eliptical	Single  Double		Diameter/Dimen	sions: / <sub>/</sub>	In Water: No Partially
Closed Pipe		Steel		☐ Box	☐ Triple				☐ Fully
	;	Other: (ON	L	Other:	Other:				With Sediment:  → No  □ Partially □ Fully
∏ Open drainag	je	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:			Depth: Top Width: Bottom Width: _		
☐ In-Stream		(applicable when	collecting	samples)		, , , , , , , , , , , , , , , , , , ,			[Bither of the control of the contro
Flow Present?		☐ Yes	ŊŊ	If No, Ski	ip to Section 5		<del></del>		
Flow Description (If present)		Trickle	Moderate	Substantial		9			
Section 3: Qua	int <u>itati</u>	ve Characteriz	ation	· .					—
				FIELD DATA FOR FL	LOWING OL	JTFALLS			
P	ARAME	TER	: .	RESULT		U	NIT .	EÇ	QUIPMENT
□E1 #1		Volume				I	Liter		
□Flow #1		Time to fill					Sec	····	
		Flow depth					In		
Пгі #3		Flow width	0, ,,	,		F	t, In		-
☐Flow #2	N	leasured length	0, "			F	t, In	·	
	· .	Time of travel					Sec		
-	Temperat	ure					°F	-	
	pН					pН	Units	Tes	st strip/Probe
	Ammon	ia				r	nnn		Test strin

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?

INDEX (1-3)	ted     3 - Noticeable from a distance	ble in 3 – Clearly visible in outfall flow	3 – Opaque			The state of the s	COMMENTS							ious	
RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	2 – Clearly visible in sample bottle	2-Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			00		nd algae			i		f3), Obvious	
REL	1 - Faint	☐ 1 — Faint colors in sample bottle	☐ 1 – Slight cloudiness	☐ 1 — Few/slight; origin not obvious					sediment and algae					ors with a severity o	
DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Yellow ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ 1 ☐ Petroleum (oil sheen) ☐ Other:		and Non-Flowing Outfalls present?	DESCRIPTION	Spalling, Cracking or Chipping Pecling Paint Corrosion	Oily   Flow Line   Paint   Other:	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other.	☐ Brown ☐ Orange ☐ Green ☐ Other:		or more indicators)	Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?
CHECK if Present	☐ Sewage ☐ Sulfide	☐ Clear ☐ Clear ☐ ☐ Green		Sewage	to low tide	rs for Both Flowing e not related to flow	CHECK if Present						haracterization	Potential (presence of two or more indicators)	scharge Concerns (
INDICATOR CH	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	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?	INDICATOR	Outfall Damage	Deposits/Stains	Abnonnal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	K Unlikely   Potent	Section 7: Any Non-Illicit D)

Subwatershed:	mgs.V.	nd Data			Outfall	ID:	31-01	:	
Today's date:	1	-12-10				Military):	5/- W		
Investigators:	7	- M 1 - 1			<del>`</del>	ompleted by:	· · · · · · · · · · · · · · · · · · ·		
Temperature (°F)	); 		Rainf	all (in.): Last 24 hours:		<del></del>	<del> </del>		
Latitutde: 2358		Long	jitude:	<u></u>	GPS U	nit:		GPS LMK	<del></del> ¥:
Camera: Nikon-			<u>-                                      </u>	•	Photo #	s: 00	24		
Land Use in Drai	inage Ar	ea (Check all that appl	y):			<u> </u>	<del>/                                    </del>	-	
<b>[∱</b> ]√Industrial				•	□Оре	n Space			
Ultra-Urban F	Residenti	ial			. 🔲 Inst	itutional	•		
Suburban Res	sidential				Other:				
Commercial					Known	Industries:			
		• •	rabs, Mir	nnows, vegetation along	canal is spars	se, trash on sid	le of canal, paper	and plastic.	
LOCATIO		MATERIAL	:	SI	IAPE	2 - 1	DIMENSI	ONS (IN.)	SUBMERGED
		□ RCP □ G	CMP	⊠.Circular	Single		Diameter/Dime		In Water:
		□ PVC □	HDPE	Eliptical	Double	<b>;</b>	6		⊠ No ☐ Partially ☐ Fully
Closed Pipe		Steel		☐ Box	☐ Triple			·	With Sediment:
		Other: Coh	<u></u>	Other:	Other:	<del></del>			⊠ No ☐ Partially ☐ Fully
		☐ Concrete			-J		Dandle	***	
<b>-</b>		☐ Earthen		☐ Trapezoid		•	Depth:		
🗌 Open drainag	ge	☐ rip-rap		Parabolic			Top Width:		
		Other:		Other:			Bottom Width:	<del></del>	
In-Stream	·, ···	(applicable when co	llecting	samples)	7 .				<u>।विनयंभवाश्वामानाम्यम्भयम्बत्तर्थः</u>
Flow Present?	···· ···	☐ Yes	Ŋ.No	If No, Sk	ip to Section	: 5	<u> </u>	···	· · · · · · · · · · · · · · · · · · ·
Flow Description (If present)		☐ Trickle ☐ I	Moderate	Substantial					
ection 3: Qua	intitati	ve Characterizat	ion			·.			
				FIELD DATA FOR F	LOWING	DUTFALLS	- '	<u> </u>	
P.	ARAME	TER		RESULT		U	NIT	E	QUIPMENT
∏Flow#1		Volume	_				iter		
	ļ.	Time to fill					Sec		
		Flow depth					In		
∏Flow #2	<u> </u>	Flow width	0' '				, In		<del></del>
		Measured length	0' '				t, In		
		Time of travel	Į.			5	lec		
	<u> </u>						-		
7	Tempera pH			,			F Units	con	est strip/Probe

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	ndicators for Flo	wing Outfalls flow?	lls Only		(If No, Skip to Section 5)					
INDICATOR	CHECK if Present		<b>.</b>	DESCRIPTION			RE	RELATIVE SEVERITY INDEX (1-3)	(1-3)	
Odor		Sewage Sulfide	Rancid/sc	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	n/gas		☐ 1 — Faint	2 - Easily detected	3 – Noticeable from a distance	
Color	o ·	Clear	☐ Brown ☐ Orange	☐ Gray ☐ Red	Yellow Other:		☐ 1 — Faint colors in sample bottle	2 - Clearly visible in sample bottle	3 – Clearly visible in outfall flow	<del></del>
Turbidity		;		See severity			☐ 1 – Slight cloudiness	2 - Cloudy	3 – Opaque	
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper	<ul><li>□ Sewage (Toilet Paper, etc.)</li><li>□ Petroleum (oil sheen)</li></ul>	Suds Other:		not o	☐ 1 — Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)	,
Notes: Potential tidal influence due to low tide	ence due to low tide									_
Section 5: Physical Indicators for Both Flowing and Non-Flowing Are physical indicators that are not related to flow present?	idicators for Bot s that are not relai	th Flowing a ted to flow p	ind Non-Flov resent?	ving Outfalls   Yes - K No		(Jf No, Skip to Section 6)	(			
INDICATOR	CHECK if Present	Present			DESCRIPTION			COMMENTS	S	
Outfall Damage			Spalling, C	Spalling, Cracking or Chipping Corrosion		Peeling Paint				
Deposits/Stains				Flow Line	☐ Paint ☐ Other:	ier;	sediment and algae	and algae		
Abnormal Vegetation			☐ Excessive	☐ Inhibited						
Poor pool quality			Odors Suds	☐ Colors ☐ Excessive Algae	Floatables	Oil Sheen Other:				
Pipe benthic growth			☐ Brown	Orange.	Gréen	Other:				
Section 6: Overall Outfall Characterization	ıtfall Characteri	zation	-				-			
Unlikely	Potential (presence of two or more indicators	ance of two c	ж more indica	utors)	Suspect (one o	r more indicat	Suspect (one or more indicators with a severity of 3)	of 3)		
Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?	llicit Discharge (	Concerns (e.	g., trash or n	eeded infras	tructure repair	.s)?	;-			

Section 1: Bac	kgrou	nd Data						
Subwatershed:					Outfall ID:	31-00	2	
Today's date: '	7	-12-1			Time (Military):			
Investigators:		2 Y	$n_i N$		Form completed	by:		
Temperature (°F	):	_	Rainf	fall (in.): Last 24 hours: (	0 Last 48 hours: 0	-		
Latitutde: 2358	837.854		Longitude:		GPS Unit:		GPS LMK #	it
Camera: Nikon-					Photo #s:			
Land Use in Dra	inage Ar	ea (Check all th	hat apply):					•
Industrial	•				Open Space			
Ultra-Urban I	Resident	ial			☐ Institutional			
Suburban Res	sidential				Other:		<del></del>	<u> </u>
Commercial					Known Industrie:	s:		
<del>/</del>	in of out	fall, if known):	large crabs, Mi	nnows, vegetation along ca	anal is sparse, trash o	n side of canal, paper	and plastic.	
Section 2: Out	fall De	escription						
LOCATIO			ERIAL	SHA	APE	DIMENSIO	ONS (IN.)	SUBMERGED
		RCP	□ СМР	Circular	∰ Single	Diameter/Dimen	sions:	In Water:
		□PVC	☐ HDPE	☐ Eliptical	Double	16"	<u>_</u>	Partially
Closed Pipe		☐ Steel		☐ Box	Triple			Fully
		Other: C	ONL	☐ Other:	Other:			With Sediment:
								☐ Partially ☐ Fully
		☐ Concrete		F-1 m	<del></del>		<u> </u>	
_		☐ Earthen		☐ Trapezoid		Depth:		
Open drainag	e	☐ rip-rap		Parabolic	ί	Top Width:		
		Other:		☐ Other:		Bottom Width: _		
☐ In-Stream		(applicable v	when collecting	samples)	. 3	<u> </u>		
Flow Present?		☐ Yes	YZ No		o to Section 5			·
Flow Description (If present)		☐ Trickle	☐ Moderate					
Section 3: Qua	ntitati	ve Charact	erization					
2000011 01 2	11 11 11 11 11	VI OHIII	OI IZALIOII	FIELD DATA FOR FL	OWING OUTFALI	S	·.	i e
PA	ARAME	TER		RESULT	1 -	UNIT	EÇ	QUIPMENT
□Flow#1		Volume		<u> </u>		Liter	· <del>·············</del>	5
		Time to fill				Sec		
-		Flow depth				In		
□Flow #2		Flow width	0, ,	,		Ft, In		
	N	Aeasured lengtl	h <u>0</u> ' '	,		Ft, In		
	<u> </u>	Time of travel		·		Sec		
ТТ	Temperat	iure				°F		
	pН	<del></del>				pH Units	Tes	st strip/Probe
	Ammon	ia				ppm		Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

	1					1		-						
(1-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	3 - Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)			<b>S</b>							
RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	☐ 2 – Clearly visible in sample bottle	2-Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS	,	ınd algae					of 3) $\square$ Obvious
REI		ottle	doudiness	ght; origin		·			sediment and algae					a severity o
	1 – Faint	1 - Faint colors in sample bottle	☐ 1 – Slight cloudiness	☐ 1 ~ Few/slight; origin		(9 uo					- -			licators with
DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	See severity	etc.) 🗆 Suds 🗀 Other:		Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls  Are physical indicators that are not related to flow present?   Yes \int \text{\text{\text{I}}} \text{No} \text{\texi\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\	DESCRIPTION	Spalling, Cracking or Chipping   Peeling Paint Corrosion	□ Oily □ Flow Line □ Paint □ Other:	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	☐ Brown ☐ Órange ☐ Green ☐ Other:		☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3)
· · ·	Sewage Sulfide	Clear		Sewage (Toilet Paper	·	th Flowing a ted to flow p	Present						zation	ence of two o
CHECK if Present					ance due to low tide	idicators for Bot that are not rela	CHECK if Present						tfall Characteri	Potential (prese
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnonnal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	X Unlikely

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

Section 1: Ba	ckgrou	ınd Data					_		
Subwatershed:					Outfall	IID: /	031-0	3	
Today's date:	7	-13-10			Time (	Military):			
Investigators:	. 1	2 M	IN	<del>71 ·                                     </del>	Form c	completed by:	<del>, u</del>	,	. 116 % 4-14-4
Temperature (°F	7):	/	Raint	fall (in.): Last 24 hours:	0 Last 48	hours: 0	· ·		
Latitutde: 2358	8837.854	l L	ongitude:		GPS U	nit:		GPS LMK.#	:
Camera: Nikon-	,				Photo #	#s:			
Land Use in Dra	ainage A	rea (Check all that ap	oply):		-	•			
M-Industrial				,	Оре	en Space			
Ultra-Urban	Residen	tial			☐ Inst	titutional			
Suburban Re	sidential				Other:	•			
Commercial		•			Known	Industries:			
Notes (e.g, orig	<del></del>	· · · · · · · · · · · · · · · · · · ·	crabs, Mi	nnows, vegetation along c	anal is spar	se, trash on s	ide of canal, paper a	and plastic.	-
LOCATIO		MATERIA	AL.	SHA	APE	<u> </u>	DIMENSIO	NS (TN.)	SUBMERGED
		<del> </del>	СМР	<b>⊈</b> Circular	Single		Diameter/Dimens		In Water:
		□ PVC □	HDPE	Eliptical	☐ Double		36		No ☐ Partially
Closed Pipe		Steel		Вох	— ☐ Triple			<del></del>	Fully
		Other: Con	L	Other:	Other:				With Sediment:  → No  □ Partially
		☐ Concrete		· · ·	·			<del></del>	Fully
	•	☐ Earthen		☐ Trapezoid			Depth:	•	
Open drainag	çе			☐ Parabolic			Top Width:		
		rip-rap		☐ Other:			Bottom Width:	· 	
		Other:							
☐ In-Stream		(applicable when			- / i				
Flow Present?	<del></del>	Yes	No	If No, Skip	to Section	5		<u>.</u>	
Flow Description (If present)		Trickle _	] Moderate	Substantial					
Section 3: Qua	ntitati	ive Characteriza	ation						
				FIELD DATA FOR FL	OWING O	OUTFALLS			
P.	ARAME	TER		RESULT	5 . T	U	NIT	EQ	UIPMENT
Flow#1		Volume				I	iter		
		Time to fill		·			Sec		·
		Flow depth					In		18.44
☐Flow #2		Flow width	0, "	<del></del>		F	t, In	· · · · · · · · · · · · · · · · · · ·	-
		Aeasured length	0' "			F	t, In		*
_,	<b></b>	Time of travel	ļ				Sec		
	rempera	ture				**	°F		, -, -, -, -, -, -, -, -, -, -, -, -, -,
	pH	*				pH	Units	Tes	t strip/Probe
	Ammon	ıia	1		. [	р	pm	٦	Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?

(1-3)	3 - Noticeable from a distance	3 – Clearly visible in outfall flow	3 - Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)			S						
RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	2 – Clearly visible in sample bottle	2-Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		ınd algae				
REI	1 - Faint	☐ 1 – Faint colors in sample bottle	1 – Slight cloudiness	☐ 1 — Few/slight; origin not obvious		(9 uo			sediment and algae				
DESCRIPTION	e 🔲 Rancid/sour 🔲 Petroleum/gas 🗀 Other:	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:		Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	DESCRIPTION	Spalling, Cracking or Chipping Peeling Paint Corrosion	Oily Plow Line Paint Other:	☐ Excessive ☐ Inhibited	Odors Colors Ploatables Oil Sheen Suds Excessive Algae	☐ Brown ☐ Orange ☐ Green ☐ Other:	
CHECK if Present	☐ Sewage ☐ Sulfide	☐ ☐ Clear		Sewag.	due to low tide	cators for Both Flowing at are not related to flow	CHECK if Present					<u> </u>	III Characterization
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization

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

☐ Potential (presence of two or more indicators)

X Unlikely

□ Obvious

 $\hfill \square$  Suspect (one or more indicators with a severity of 3)

Section 1: Bac	ekgrou	nd Data					^		
Subwatershed:	<b>A</b> 1	_			Outfall I	D:	13 FE	99	-
Today's date:	Je.	7-13-1	O		Time (M	filitary):			
Investigators:	<i>y</i>	RMIN			Form co	mpleted by:			
Temperature (°F	"):	_	Rainf	fall (in.): Last 24 hours: (	0 Last 48 h	iours: 0			
Latitutde: 2358	3837.854	L	ongitude:		GPS Un	it:		GPS LMK #	;
Camera: Nikon-					Photo #s	s:			
Land Use in Dra	inage Ar	rea (Check all that a	pply):						
Industrial					Open	Space			
Ultra-Urban	Resident	ial			🔲 Instit	tutional			
Suburban Re	sidential	•			Other: _	•			<del></del>
Commercial				•	Known l	Industries:		· · · · · · · · · · · · · · · · · · ·	<del></del>
Notes (e.g, orig			e crabs, Mi	nnows, vegetation along ca	anal is sparso	e, trash on si	de of canal, pape	r and plastic.	
LOCATIO	N	MATERI	AL	SHA	APE	ř .	DIMENSI	ONS (IN.)	SUBMERGED
		□ RCP [	СМР	E-Circular	Single		Diameter/Dime	nsions:	In Water:
		□ PVC [	☐ HDPE	☐ Eliptical	Double		6 "		₩ No   Partially   Fully
Closed Pipe		Steel		□Box	Triple				•
'		Other:		☐ Other:	Other: _				With Sediment:
									'□ Partially □ Fully
		Concrete					<b>5</b>	•	
		Earthen		☐ Trapezoid			Depth:	•	
Open drainag	ţe	☐ rip-гар		Parabolic		-	Top Width:	_	
•		☐ Other:		Other:			Bottom Width:		
☐ In-Stream	<del></del> .	(applicable when	collecting	samples)			<u> </u>	:	
Flow Present?	<del>*</del>	Yes	No ⊠		to Section .	5			
Flow Description (If present)			Moderate						,
Section 3: Qua	ntitati	ve Characteriz	ation					•	
		:		FIELD DATA FOR FL	OWING O	UTFALLS	<del></del>		
P	ARAME	TER		RESULT		U	NIT	EC	UIPMENT
□Flow #1		Volume		1-11-1-		L	iter		
		Time to fill					Sec	·	
		Flow depth				,	In		
∏Flow #2		Flow width	0' "			F	i, In		
_	<u> </u>	leasured length	0' "	·			t, In		
:	·	Time of travel		····		<del>-</del>	lec		
Γ	Γemperat	ture			·		F		
······································	pН	· · · · · · · · · · · · · · · · · · ·				pН	Units	Tes	t strip/Probe
	Ammon	ia	1			р	pm .		Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes	dicators for Florors Present in the f	wing Outfalls Only ow? Yes ZNo (If No, Skip to Section 5)			
INDICATOR	CHECK if Present	DESCRIPTION	RE	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	□ I – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	<i>;</i> 🗆	☐ Clear ☐ Brown ☐ Gray ☐ Yellow☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbidity		See severity	☐ I — Slight cloudiness	2-Cloudy	☐ 3 — Opaque
Floatables -Does Not Include Trash!!		☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 — Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanifary materials)
Notes: Potential tidal influence due to low tide	nce due to low tide				
Section 5: Physical Indicators for Both Flowing and No. Are physical indicators that are not related to flow present?	dicators for Bot that are not relat	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls  Are physical indicators that are not related to flow present? Yes PNo (If No, Skip to Section 6)	ztion 6)		ĺ
INDICATOR	CHECK if Present	resent DESCRIPTION		COMMENTS	<b>S</b>
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Pecling Paint ☐ Corrosion	π .		
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment and algae	and algae	
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	än		
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	tfall Characterio	ation			
[X Unlikely [	Potential (prese	Potential (presence of two or more indicators) Suspect (one or more i	Suspect (one or more indicators with a severity of 3)	of 3) 🔲 Obvious	
Section 7: Any Non-II	licit Discharge (	Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure renairs)?			

Section 1: Bac	ckgrou	ınd Data							
Subwatershed:			_		Outfall	ID:	31		<del>"</del>
Today's date:	7	7-13-10			Time (I	Military):			
Investigators:	R	MIN			Form co	ompleted by:		211.1132	
Temperature (°F	'):		Rainf	fall (in.): Last 24 hours:	0 Last 48 I	hours: 0			
Latitutde: 2358	3837.854	ļ	Longitude:		GPS Un	nit:		GPS LMK	#:
Camera: Nikon-					Photo #	s:			
Land Use in Dra	inage A	rea (Check all that	t apply):						<del></del>
/ Industrial					Oper	n Space			
Ultra-Urban I	Resident	tial			☐ Insti	tutional			
☐ Suburban Re	sidential			,	Other: _				
[☐]Commercial				•	Known	Industries: _		·	*
Section 2: Out		T		· · · · · · · · · · · · · · · · · · ·			1		
LOCATIO	N	MATER	RIAL		APE	• . • •	DIMENSIO	ONS (IN.)	SUBMERGED
·		□ RCP □ PVC	☐ CMP	Circular Eliptical	Single  Double		Diameter/Dimen	sions:	In Water:  No Partially
Closed Pipe		Steel		☐ Box	☐ Triple		'		☐ Fully
		Other: CO	nd V	Other:	Other:	<del></del>			With Sediment:   No ☐ Partially ☐ Fully
☐ Open drainag	ge	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:			Depth: Top Width: Bottom Width: _		
☐ In-Stream		(applicable who	en collecting	samples)		./ :			[त्रेसम्बद्धारम् अवश्वसम्बद्धारम् सम्बद्धारम् स्थापन
Flow Present?		☐ Yes	Ďίνο	If No, Ski	p to Section	5			
Flow Description (If present)		☐ Trickle	☐ Moderate	Substantial		·			
Section 3: Qua	ntitati	ive Character	ization	TO DO ATA FOR E					
	4 D A ME	TED	· · ·	FIELD DATA FOR FI	TOMING O	· · · · · · · · · · · · · · · · · · ·		·	
r	ARAME	Volume	<del>-   : · -</del>	RESULT		-	NIT	E	QUIPMENT
□Flow#1		Time to fill	-			<del></del>	iter		
		Flow depth				· · · · · · · ·	Sec In		
	<u> </u>	Flow width	<u>0</u> , "				t, In	<del></del> -	
□Flow #2	<del> </del>	Measured length	0' "				t, In		
•		Time of travel	<del>-   -</del>				Sec		
7	Гетрега		<del> </del> .				°F		
	рН						Units .		est strip/Probe
	Ammon	 1ia					nm		Test strin

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

EX (1-3)	3 – Noticeable from a distance	3 Clearly visible in outfall flow	☐ 3 ~ Opaque				NTS						
RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	2 – Clearly visible in sample bottle	2-Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		and algae				
RE		colors in bottle	cloudiness	light; origin					sediment and algae				
	☐ 1 — Faint	1 – Faint colors in sample bottle	☐ 1 – Slight cloudiness	1 – Few/slight; origin not obvious		tion 6)		Ħ			g		
	gas	Yellow Other:				(If No., Skip to Section 6)	DESCRIPTION	ng 🗀 Peeling Paint	int Other:		☐ Floatables ☐ Oil Sheen ae ☐ Other:	Green Other:	
DESCRIPTION	l/sour □ Petroleum/gas	Gray Gray	See severity	ic.) Suds		owing Outfalls	JO .	Spalling, Cracking or Chipping Corrosion	Flow Line Paint	2 Inhibited	Colors Colors Excessive Algae	☐ Orange	
	☐ Rancid/sour	☐ Brown ☐ Orange		☐ Sewage (Toilet Paper, étc.) ☐ Petroleum (oil sheen)		and Non-Fl oresent?		Spalling, C	Oily	☐ Excessive	Odors Suds	☐ Brown	-
ì	Sewage Sulfide	☐ Clear		☐ Sewage		th Flowing ted to flow p	Present						ration
CHECK if Present					nce due to low tide	dicators for Bo that are not rela	CHECK if Present						tfall Character
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	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?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization

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

☐ Potential (presence of two or more indicators)

Unlikely

□ Obvious

 $\square$  Suspect (one or more indicators with a severity of 3)

Section 1: Bac	ckgrou	nd Data						•	
Subwatershed:					Outfal	ID:	3/		
Today's date:	7	-13-10		***	Time (	Military):			
Investigators:		e m	$\mathcal{N}$		Form o	completed by:			
Temperature (°F	·):		Rainf	all (in.): Last 24 hou	rs: 0 Last 48	hours: 0			<del>".</del>
Latitutde: 2358	3837.854		Longitude:		GPS U	Init:		GPS LMK #	: :
Camera: Nikon-					Photo	#s:		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Land Use in Dra	inage Ar	ea (Check all tha	t apply):	-		· · · · ·			
☑-Industrial		÷	`		Ор	en Space			
Ultra-Urban	Resident	ial			☐ Ins	titutional			
Suburban Re	sidential		•		Other:	·	·		
Commercial					Knowr	Industries: _		<del></del>	<del></del>
Section 2: Out	tfall De	escription		nnows, vegetation alon		se, trash on si			
LOCATIO	N .	MATE	•		SHAPE			ONS (IN.)	SUBMERGED
·		□ RCP	☐ CMP	Circular  Eliptical	⊠Single		Diameter/Dime	nsions;	In Water:  No Partially
Closed Pipe		Steel		⊡ Box	☐ Triple				☐ Fully
•		Other:	DIVL	Other:	Other:				With Sediment: ☐ No ☐ Partially ☐ Fully
☐ Open drainag	re .	Concrete Earthen rip-rap Other:		☐ Trapezoid ☐ Parabolic ☐ Other:			Depth: Top Width: Bottom Width:	•	
☐ In-Stream		(applicable wh	en collecting s	samples)	7				
Flow Present?		☐ Yes	ÆNo		Skip to Section	ı.5			<u> </u>
Flow Description (If present)		☐ Trickle	☐ Moderate	☐ Substantial					
Section 3: Qua	intitati	ve Character	rization						
222701.07 244		, o Onataotor	121111011	FIELD DATA FOR	FLOWING	OUTFALLS			
· P.	ARAME	TER	· .	RESULT	2		NIT	<b>E</b> C	QUIPMENT
□Flow#1		Volume		***************************************			iter		
		Time to fill					Sec		
		Flow depth					In		
∏Flow #2		Flow width	0' "			F	t, In		
	M	leasured length	0' "			F	t, In		
		Time of travel					Sec		
7	Cemperat	ure					°F		
	pН					pН	Units	Tes	st strip/Probe
	Ammon	ia .				р	pm		Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes	tors for Flowing Our	tfalls Only Yes FNo (If No, Skip to Section 5)			
INDICATOR	CHECK if Present	DESCRIPTION	RE	RELATIVE SEVERITY INDEX (1-3)	1-3)
Odor	☐ Sewage	ge □ Rancid/sour □ Petroleum/gas le □ Other:	☐ I — Faint	2-Easily detected	☐ 3 – Noticeable from a distance
Color	☐ Clear	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	☐ 1 — Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity		. See severity	☐ 1 — Slight cloudiness	2 - Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!	☐ ☐ Seway	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 — Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	e to low tide	and the second s	-		
Section 5: Physical Indicators for Both Flowing and No. Are physical indicators that are not related to flow present?	tors for Both Flowin are not related to flov	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls  Are physical indicators that are not related to flow present? Yes No (If No. Skip to Section 6)	ction 6)		
INDICATOR	CHECK if Present	DESCRIPTION	7	COMMENTS	S
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	int		
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment	sediment and algae	
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	en		
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization					
]	Characterization				
Ciminary	Characterization ntial (presence of two	Potential (presence of two or more indicators)   Suspect (one or more in	Suspect (one or more indicators with a severity of 3)	of 3) 🔲 Obvious	

Section /: Any Non-Lincit Discharge Concerns (e.g., trash or needed infrastructure repairs)

Section 1: Bac	kgrou	nd Data			•			
Subwatershed:				· .	Outfall ID:	P3/		
Today's date:	チー	3-10 - MIN			Time (Military	<i>ı</i> ):		
Investigators:	62	- MIN			Form complete	ed by:		
Temperature (°F	):		Rainf	all (in.): Last 24 hours: (	Last 48 hours:	0		
Latitutde: 2358	837.854	1	Longitude;		GPS Unit:		GPS LMK	#:
Camera: Nikon-					Photo #s:			
Land Use in Dra	inage Ar	ea (Check all that	apply):			•		
Industrial				•	Open Spac	e		
Ultra-Urban I	Residenti	ial			☐ Institutiona	ıl		
Suburban Res	sidential				Other:		<del>.</del>	
Commercial					Known Industr	ries:		·
Notes (e.g, orig			ge crabs, Mi	nnows, vegetation along ca	anal is sparse, trasl	on side of canal, pap	er and plastic.	
LOCATIO	N	MATER	IAL	SHA	<b>NPE</b>	DIMENS	IONS (IN.)	SUBMERGED
		RCP	□ СМР	☐ Circular	Single	Diameter/Dim	ensions:	In Water:
	•	□ PVC	HDPE	☐ Eliptical	Double	6 11		Partially
Closed Pipe		☐ Steel		☐ Box	Triple			☐ Fully
<i>/</i> ~		Other: LE	NU.	[S_Other:	Other;			With Sediment:
		(						No Partially Fully
		☐ Concrete						
		Earthen		☐ Trapezoid		Depth:		
Open drainag	e	rip-rap		Parabolic		Top Width:	<del>_</del>	
		Other:		☐ Other:		Bottom Width	:	
☐ In-Stream		(applicable whe	n collecting	samples)	1.5			
Flow Present?		Yes	<u>⊮</u> No	* ** **	to Section 5			<u> </u>
Flow Description (If present)			☐ Moderate			,		
Section 3: Qua	ntitati	ve Characteri	zation	<del>.</del>				
				FIELD DATA FOR FL	OWING OUTFA	ILLS		3
P.	ARAME	TER		RESULT		UNIT	E	QUIPMENT
□Flow#1		Volume				Liter		
□L10M #1		Time to fill		·		Sec		
		Flow depth				In		
□Flow #2		Flow width	<u>0</u> , ,			Ft, In		
□FIOW #2	N	leasured length	<u>ō</u> , "	•		Ft, In		
		Time of travel				Sec		
. 1	remperat	ture				٥F		
	pН					pH Units	Te	est strip/Probe
	Ammon	ia				ppm		Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only, Are Any Physical Indicators Present in the flow?

INDICATOR	CHECK if Present		DESC	CRIPTION			RELATIVE SEVERITY INDEX (1-3)	UTY INDEX (	1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Other:	☐ Petroleum/gas	as	□ I – Faint	2 - Easily detected	detected	3 – Noticeable from a distance
Color	·	☐ Clear	☐ Brown ☐	Gray	☐ Yellow ☐Other:	1 - Faint colors in sample bottle	Sample bottle	y visible in	3 – Clearly visible in outfall flow
Turbidity			See	See severity		☐ 1 – Slight cloudiness	ss	<i>h</i>	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper	etc.)	Suds		☐ 1 — Few/slight; origin not obvious		- 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 influence due to low tide	ence 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?	ndicators for Bot s that are not relat	th Flowing as ted to flow pi	nd Non-Flowing O resent?	Outfalls s ZNo	(If No, Skip to Section 6)	ion 6)	,		
INDICATOR	CHECK if Present	resent		DE	DESCRIPTION	· .		COMMENTS	
Outfall Damage			Spalling, Cracking or Chipping Corrosion	cing or Chippir	ig 🔲 Peeling Paint				
Deposits/Stains			Oily   Flow Line	Line   Paint	nt Other:	Sec	sediment and algae		
Abnormal Vegetation			☐ Excessive ☐ I	Inhibited		•			
Poor pool quality			Odors Co	Colors   Excessive Algae	☐ Floatables ☐ Oil Sheen				
Pipe benthic growth			☐ Brown ☐ (	Orange [	☐ Green ☐ Other:				
Section 6: Overall Outfall Characterization	utfall Characteri	zation							
☑ Unlikely	Potential (presence of two or more indicators)	ince of two o	r more indicators)		Suspect (one or more indicators with a severity of 3)	dicators with a sev		□ Obvious	

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

Section 1: Bac	ekgrou	nd Data							
Subwatershed:					Outfall 1	ID:	r 3/		
Today's date:	7	-13-16	)		Time (M	filitary);			
Investigators:		- VI	2 in		Form co	mpleted by	-		
Temperature (°F)			Raint	fall (in.): Last 24 hours	: 0 Last 48 l	ours: 0			
Latitutde: 2358	8837.854		Longitude:		GPS Un	it:		GPS LMK	#:
Camera: Nikon-					Photo #s	s:	· · · · · · · · · · · · · · · · · · ·		
Land Use in Drai	inage Ar	rea (Check all tha	t apply):			·			
🕅 Industrial	•				☐ Oper	Space			
Ultra-Urban F	Resident	ial			☐ Instit	utional			
Suburban Res	sidential				Other: _		<del></del>		
Commercial				•	Known l	ndustries: _	· · · · · · · · · · · · · · · · · · ·		
Section 2: Out			arge crabs, Mi	nnows, vegetation along	canal is sparse	e, trash on s	de of canal, paper a	nd plastic.	
LOCATIO	N	MATE	RIAL	SI	IAPE		DIMENSIO	NS (IN.)	SUBMERGED
		☐ RCP	СМР	Circular	Single		Diameter/Dimens	ions:	In Water:
		□PVC	HDPE	☐ Eliptical	☐ Double		16	<del></del>	No Partially
Closed Pipe		Steel		☐ Box	☐ Triple				☐ Fully
		⊠-Other: CE	INL E	Other:	Other:				With Sediment:  No □ Partially □ Fully
☐ Open drainage	e	Concrete  Earthen  rip-rap  Other:		☐ Trapezoid ☐ Parabolic ☐ Other:			Depth: Top Width: Bottom Width:		
☐ In-Stream		(applicable wh	en collecting	samples)			· .		
Flow Present?		☐ Yes	o/4- <b>k</b> ₹		ip to Section 3				·
Flow Description (If present)	!	Trickle	☐ Moderate		p to Section 2	,	***		hi
Section 3: Quar	ntitati	ve Character	ization					-	
January Quan		, contractor	12.it (10.11	FIELD DATA FOR F	LOWING O	UTFALLS	·		·
P/A	ARAME	TER		RESULT		U	NIT	E	QUIPMENT
		Volume					iter		2011112111
□Flow#1		Time to fill				<del></del>	Sec		
		Flow depth					In		
☐Flow #2		Flow width	<u>0</u> ' "			F	t, In		
LIFTOW #2	M	leasured length	0' "			F	t, In		- 18 <sup>11</sup> - 18 - 18 - 18
		Fime of travel					Sec		
Т	emperat	ure ·				<u></u>	°F	·	
	pН					pН	Units	Te	st strip/Probe
	Ammon	ia					pm	•	Test strip

Sewage	Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?   CHECK if  INDICATOR  Present	adicators for Flortors Present in the f	wing Outfalls Onl	J No DESCR	(If No, Skip to Section 5)	(5)	p N	RELAT	RELATIVE SEVERITY INDEX (1-3)	1-3)
Yellow   Sample bottle   Sa	Odor				.um/gas		□ 1 – Faint		2 - Easily detected	3 – Noticeable from a distance
	Color				☐ Yellow		1 – Faint colors ir		2 – Clearly visible in	3 – Clearly visible in outfall flow
Care   Comment   Care	Turbidity			See severity			☐ 1 – Slight cloudin		32-Cloudy	3 - Opaque
(If No, Skip to Section 6)  PESCRIPTION  ping	Floatables ose Not Include Trash!!		Sewage (Toilet Pa	, etc.)			1 - Few/slight; or		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)
(If No, Skip to Section 6)  PESCRIPTION  ping	: Potential tidal influe	ence due to low tide								
CHECK if Present         DESCRIPTION           □ Spalling, Cracking or Chipping         □ Peeling Paint           □ Corrosion         □ Oily □ Flow Line □ Paint         □ Other:           □ Odors         □ Colors □ Colors         □ Floatables □ Oil Sheen           □ Suds         □ Colors	on 5: Physical In hysical indicators	idicators for Bot s that are not relat	h Flowing and No ted to flow present?	n-Flowing Outfal		Skip to Secti	on 6).			
Corrosion	INDICATOR	CHECK IF P	resent		DESCRIPTION	-			COMMENTS	9
Colly   Flow Line   Paint   Other:   Collection   Coll	Outfall Damage			palling, Cracking or Cl orrosion		Peeling Paint				
	Deposits/Stains		(iio 🗆	☐ Flow Line		Other:	Se	diment and a	ılgae	
□ Odors     □ Colors     □ Floatables       □ Suds     □ Excessive Algae       □ Brown     □ Orange     □ Green	normal Vegetation		Exc							
☐ Brown ☐ Orange ☐ Green	oor pool quality		odc		Floatables Algae		\			
	e benthic growth		Bro		Green	Other:				

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

☐ Potential (presence of two or more indicators)

T Unlikely

☐ Obvious

Suspect (one or more indicators with a severity of 3)

Section 1: Bac	ckgrou	nd Data	•					·
Subwatershed:				/	Outfall ID:	13/	P. C. C. C. C. C. C. C. C. C. C. C. C. C.	
Today's date:	7	-13-(	<u> </u>		Time (Military):	:	******	
Investigators:	6	2 M	IN		Form completed	i by:		
Temperature (°F	<sup>7</sup> ):		Rainf	fall (in.): Last 24 hours:	0 Last 48 hours: 0			
Latitutde: 2358	8837.854		Longitude:		GPS Unit:		GPS LMK #	
Camera: Nikon-			•		Photo #s: 06	<i>386</i>		
Land Use in Dra	iinage Ar	ea (Check all th	at apply):					
Industrial			•		Open Space			
Ultra-Urban	Resident	ial			Institutional			
☐ Suburban Re	sidential				Other:	· · · · · · · · · · · · · · · · · · ·		
<b>⊡</b> €ommercial				· 	Known Industrie	es:		
Notes (e.g, orig	in of out	fall, if known):	large crabs, Mir	nnows, vegetation along c				
								;
Section 2: Out	tfall De	ecrintion						
LOCATIO		MAT	ERIAL	SHA	APE	DIMENSIO	NS (IN.)	SUBMERGED
		RCP	□СМР	Circular	Single	Diameter/Dimen		In Water:
		□ PVC	☐ HDPE	☐ Eliptical	Double	36"		⊠ No □ Partially
Ď-€losed Pipe		☐ Steel		Вох	Triple			Fully
-		Other:	ONL	☐ Other:	☐ Other:			With Sediment:
		<b>'</b>	-					☐ Partially ☐ Fully
		☐ Concrete			<u> </u>	7		
		☐ Earthen		☐ Trapezoid		Depth:		
Open drainag	ge	☐ rip-rap		Parabolic		Top Width:	_	
		Other:		☐ Other:		Bottom Width: _		
☐ In-Stream			hen collecting:	samples)	<u> </u>		·	
Flow Present?		Yes	Mo.	7.577.1.7.1	p to Section 5			
Flow Description					J TO Decellon 5		<del></del>	
(If present)	····	Trickle	☐ Moderate	Substantial	<del></del>		·	
Section 3: Qua	ntitati	ve Characte	erization		· ·		•	
				FIELD DATA FOR FL	OWING OUTFAL	LS		
P.	ARAME	TER		RESULT	The state of the s	UNIT	EQ	UIPMENT
□Flow#1		Volume				Liter		
		Time to fill		•		Sec		
		Flow depth				In		
□Flow #2		Flow width	0, "			Ft, In	<u>.</u>	· · · · · · · · · · · · · · · · · · ·
·		leasured length	0' ~- "			Ft, In		
	1	Time of travel				Sec		
	Γemperat	ure				°F		
	pН					pH Units	Tes	t strip/Probe
	Ammon	ia				ppm	-	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes	Flowing Outfalls Only he flow? Yes PNo (If No, Skip to Section 5)			
INDICATOR CHECK if Present	DESCRIPTION	RE	RELATIVE SEVERITY INDEX (1-3)	(ε-τ
Odor	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 — Faint	2 - Easily detected	☐ 3 — Noticeable from a distance
Color	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 — Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity	See severity	☐ 1 — Slight cloudiness	2 – Cloudy	☐ 3 — Opaque
Floatables -Does Not Include Trash!!	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 — Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	de			
Section 5: Physical Indicators for Both Flowing and No. Are physical indicators that are not related to flow present?	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls  Are physical indicators that are not related to flow present? Yes No (If No, Skip to Section 6)	tion 6)		
INDICATOR CHECK	CHECK if Present / DESCRIPTION		COMMENTS	<b>9</b> 1
Outfall Damage	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	nt ·		, .
Deposits/Stains	☐ ☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment and algae	ınd algae	
Abnormal Vegetation	☐ Excessive ☐ Inhibited			
Poor pool quality	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	B		
Pipe benthic growth	☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	erization			
	Potential (presence of two or more indicators)  Suspect (one or more in		of 3) Dhvions	
XJUnlikely   Potential (p		Suspect (one or more indicators with a severity of 3)		
		ndicators with a severity of		
	two or more indicators)		f 3)	

Section 1: Bac	ekgrou	nd Data							
Subwatershed:					Outfall	ID:	734	F-01	
Today's date:	7-	- 15-17	D		Time (A	Ailitary):		,	
Investigators:	K	- Min	<u> </u>		Form co	ompleted by:			
Temperature (°F	):		Raint	fall (in.): Last 24 hours: 0	0 Last 48 l	iours: 0			
Latitutde: 2358	8837.854		Longitude:		GPS Un	iit:		GPS LMK	.#:
Camera: Nikon-					Photo #	s:008-	7		
Land Use in Dra	inage Ar	ea (Check all tha	it apply);	,	_			<del></del>	
⊠Pndustrial				,	Oper	a Space			
Ultra-Urban	Resident	ial			☐ Instit	tutional			
Suburban Re	sidential				Other: _	•			
Commercial					Known !	Industries: _			<del></del>
Notes (e.g, orig	·		arge crabs, Mi	nnows, vegetation along ca	anal is spars	e, trash on si	de of canal, pa	per and plastic.	
LOCATIO		MATE	RIAL	SHA	APE	27 1 1	DIMEN	SÍONS (IN.)	SUBMERGED
		□ RCP	□СМР	Circular	Single		Diameter/Dia	mensions:	In Water:
		□ PVC	☐ HDPE	1' .	Double		16		Y∰No ☐ Partially
Closed Pipe		□-Steel		<b>2</b> 2- <b>3</b> ox	☐ Triple				Fully
		— Other: <u>C</u>	ONO	1 -	Other:				With Sediment: No
									Partially Fully
		Concrete	1						
		☐ Earthen		☐ Trapezoid		7	Depth:		
Dpen drainag	;e	☐ rip-rap		Parabolic			Top Width: _	···	
		Other:		Other:			Bottom Widt	h:	
☐ In-Stream		(applicable wh	en collecting	samples)			<u>'</u>		
Flow Present?		☐ Yes	₩No	If No, Skip	o to Section	5			<u> </u>
Flow Description (If present)		☐ Trickle	☐ Moderate	e Substantial					May 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10
Section 3: Qua	ntitati	ve Characte	rization						
			***************************************	FIELD DATA FOR FLO	OWING O	UTFALLS			
P.	ARAME	TER		RESULT		U	NIT		EQUIPMENT
□Flow#1		Volume				I	Liter		,
☐Flow#1		Time to fill					Sec		, , , , , , , , , , , , , , , , , , , ,
		Flow depth					In		
□Flow #2		Flow width	0, ,	,		F	t, In		
LI 1011 112	λ	Aeasured length	0' "	,	-	F	t, In		
<del></del>		Time of travel		j.			Sec		
	remperat	ture					°F		
	pН					pН	Units	Т	est strip/Probe
	Ammon	ia			i	р	pm (		Test strip

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow? 

Yes

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

Section 1: Ba	ckgrou	nd Data					a		
Subwatershed:	A				Outfall I	D: 1	34		
Today's date:	#-	13-10			Time (M	illitary):	1		
Investigators:	162	- m	in		Form cor	mpleted by:			
Temperature (°F	²):		Rainf	fall (in.): Last 24 hours:	0 Last 48 h	ours: 0			
Latitutde: 235	8837.854	I	Longitude:		GPS Uni	it:		GPS LMK #	:
Camera: Nikon-					Photo #s.	:			
Land Use in Dra	inage Ar	rea (Check all that a	apply):	<u> </u>	<b>-</b> -			<del></del>	
Industrial					☐ Open	Space		*	
Ultra-Urban	Resident	ial			☐ Institu	utional			
☐ Suburban Re	sidential	,			Other:				
Commercial		•							
<del>-/</del>		fall, if known): lar	ge crabs, Mi	nnows, vegetation along c					
<b> </b>		•				,		····· p	
<u> </u>				·	<u>.</u>				
Section 2: Ou				1	· · · · · · · · · · · · · · · · · · ·		<del></del>		
LOCATIO	N	MATER			APE		DIMENSIC	NS (IN.)	SUBMERGED
		□ RCP	□ СМР	Circular	Single		Diameter/Dimen	sions:	In Water:
		□ PVC	☐ HDPE	☐ Eliptical	Double		10	<u> </u>	☐ Partially
Closed Pipe		☐ Steel		Вох	Triple	•		•	☐ Fully
		Other: CE	WE	☐ Other:	Other:				With Sediment:
						_			Partially Fully
		Concrete			1				
		☐ Earthen		☐ Trapezoid			Depth:	,	
Den drainag	ge	☐ rip-rap		☐ Parabolic			Top Width:	_	
				☐ Other:	•		Bottom Width: _		
		Other:	:				-		
☐ In-Stream		(applicable wher			· · · · · · · · · · · · · · · · · · ·	· ·	<u> </u>		· · · · · · · · · · · · · · · · · · ·
Flow Present?		☐ Yes	[XNo	If No, Skip	p to Section 5	; 			
Flow Description (If present)		Trickle [	☐ Moderate	Substantial	·	<u>-</u>			
Section 3: Qua	intitati	ive Characteria	zation		,				4
				FIELD DATA FOR FL	LOWING O	UTFALLS		;	
Р	ARAME	TER		RESULT		U	NIT	EÇ	UIPMENT
☐Flow#1		Volume				L	iter		<del> </del>
[_]I 10 W # 1		Time to fill					Sec		
		Flow depth					In		******
□Flow #2		Flow width	<u>0</u> , "		·	F	t, In		
	<u> </u>	Aeasured length	0, ,,		•	F	t, In	~~~~	
	<u> </u>	Time of travel		<del></del>			Sec .		
	Temperat	ture					°F		
	pН	<del></del>		·		pH	Units	Tes	st strip/Probe
	Ammon	ıia -		-		. p	pm		Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?

i	1				1		7	ī	<del></del>	т—	T	$\overline{}$	7	
(1-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	3 - Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)			S						•	
RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	2 – Clearly visible in sample bottle	2 - Cloudy	2 Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		nd algae					f3)
REL		lors in ttle	oudiness	ht; origin		-			sediment and algae	:				a severity o
	1 Faint	1 - Faint colors in sample bottle	1 - Slight cloudiness	1 – Few/slight; origin not obvious		(9 ис					·	;		icators with
DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	vn Gray Tellow	See severity	☐ Suds ☐ Other:		Flowing Outfalls  Yes No (If No, Skip to Section 6)	DESCRIPTION	Spalling, Cracking or Chipping Peeling Paint Corrosion	☐ Flow Line ☐ Paint ☐ Other:	ive   Inhibited	☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Excessive Algae ☐ Other:	☐ Orange ☐ Green ☐ Other:		dicators) Suspect (one or more indicators with a severity of 3)
		☐ Brown ☐ Orange		Sewage (Toilet Paper, etc.)		and Non- present?	· · ·	Spal	Vlio 🗆	☐ Excessive	Odors Suds	☐ Brown		or more ir
	Sewage	Clear		Sewage 🔲 Petroleu		th Flowing	Present						ization	ence of two
CHECK if Present					ance due to low tide	idicators for Bo s that are not rek	CHECK if Present						tfall Character	☐ Potential (presence of two or more indicators)
INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	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?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	☑ Unlikely □

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

Seb-outerstands:	Section 1: Bac	ckgrou	nd Data					•	
Investigatorics	Subwatershed:					Outfall ID:			
Temperature (°F): Rainfall (in): Last 24 hours: 0  Lactivide: 235837 854   Longitude: OPS Unit:	Today's date:	7:	13-10		,	Time (Military):			
Latituide: 235837.854   Longitude:   GPS Linit:   GPS Linit   Cameric Nillon- Land Use in Drainage Area (Check all that apply):   Photo #s:	Investigators:	1/2	- M	12		Form completed	y;		
Camera: Nikon- Land Use in Drainage Area (Check all that apply):    Class in Drainage Area (Check all that apply):   Class in Drainage Area (Check all that apply):   Class in Drainage Area (Check all that apply):   Class in Drainage Area (Check all that apply):   Commercial	Temperature (°F	):	- 7	Rainf	all (in.): Last 24 hours:	0 Last 48 hours: 0			
Lend Use in Drainage Area (Check all that apply):    Open Space	Latitutde: 2358	837.854		Longitude:		GPS Unit:		GPS LMK #	:
Open Space   Ope	Camera: Nikon-				<u> </u>	Photo #s:		-1	
Ultra-Urban Residential	Land Use in Dra	inage Ar	ea (Check all tha	t apply):				•	
Suburban Residential	ndustrial					Open Space			
Notes (e.g., origin of outfull, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic.    Section 2: Outfall Description	Ultra-Urban I	Resident	ial			☐ Institutional			
Notes (e.g., origin of outfall, if known): large erabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic.    Section 2: Outfall Description	Suburban Re	sidential				Other:			
Section 2: Outfall Description	Commercial					Known Industries			
LOCATION MATERIAL SHAPE DIMENSIONS (IN.) SUBMERGED    RCP	Notes (e.g, orig	in of out	fall, if known): la	rge crabs, Mir	nows, vegetation along c	anal is sparse, trash or	side of canal, paper	and plastic.	
LOCATION MATERIAL SHAPE DIMENSIONS (IN.) SUBMERGED    RCP									
LOCATION MATERIAL SHAPE DIMENSIONS (IN.) SUBMERGED    RCP	<u> </u>								
RCP					1	*			1
PVC	LOCATIO	IN .				<del>, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>		1	
Closed Pipe   Steel							Diameter/Dimen	sions:	1 <b>∑</b> 1^No
Other Law   Other:   Other:   Other:   With Sediment:   Moderate   Partially	NT			☐ HDPE			1-24	<del></del>	
	Closed Pipe								With Sediment:
Open drainage	·		Other:	V C	Other:	Other:			
Open drainage									
			Concrete		Tranezoid		Denth		
Tin-Stream			☐ Earthen				1 .		
	🗀 Open oramag	e .	□ rip-гар						
Flow Present?			Other:		Other:		Bottom Width: _		
Trickle	☐ In-Stream		(applicable wh	en collecting	samples)		!		्र विश्ववास्त्रवास्त्रवास्त्रवास्त्रवास्त्रवास्त्रवास्त्रवास्त्रवास्त्रवास्त्रवास्त्रवास्त्रवास्त्रवास्त्रवास्त्रव
	Flow Present?		☐ Yes	DV-X	If No, Ski	p to Section 5			i
Section 3: Quantitative Characterization			☐ Trickle	☐ Moderate	☐ Substantial	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
FIELD DATA FOR FLOWING OUTFALLS           PARAMETER         RESULT         UNIT         EQUIPMENT           □ Volume         Liter         Liter         □					<del></del>			·	
PRAMETER         RESULT         UNIT         EQUIPMENT           □ Flow #1         Volume         Liter         Cliter           Time to fill         Sec         In           Flow depth         In         Ft, In           Measured length         0' "         Ft, In         Ft, In           Time of travel         Sec         Sec           Temperature         °F         pH Units         Test strip/Probe	Section 3: Qua	ntitati	ve Character	ization					
Volume		ADAME		<u> </u>		* * * * * * * * * * * * * * * * * * * *	· · · · · · · · · · · · · · · · · · ·		
Flow #1   Time to fill   Sec		ARAME	· · · · · · · · · · · · · · · · · · ·		RESULI	* - '		EC	OTHWENT
Flow depth	□Flow#1		<del></del>						
Flow width						-			
Measured length				0' "					<del>,</del> -
Time of travel  Sec  Temperature  PH  PH  Units  Test strip/Probe	□Flow #2	λ.		<del></del>		<u> </u>			
Temperature °F pH Units Test strip/Probe		<del></del>							
pH pH Units Test strip/Probe							<del></del>		
								Tes	st strip/Probe
		Ammon	ia				ppm		Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?

INDICATOR	CHECK if Present	-	DESCRIPTION	REL	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	1 - Faint	2 - Easily detected	3 – Noticeable from a distance
Color		☐ Clear	□ Brown         □ Gray         □ Yellow           □ Orange         □ Red         □ Other.	☐ 1 – Faint colors in sample bottle	2 ~ Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbidity			See severity	☐ 1 – Slight cloudiness	2-Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper	Sewage (Toilet Paper, etc.) Suds	☐ 1 – Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	ence due to low tide					
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	ndicators for Bot s that are not relat	h Flowing a ted to flow pr	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls  Are physical indicators that are not related to flow present? $\square$ Yes $\square$ No (If No, Skip to Section 6)	(on 6)		·
INDICATOR	CHECK if Present	resent	DESCRIPTION		COMMENTS	S
Outfall Damage			Spalling, Cracking or Chipping   Peeling Paint   Corrosion			
Deposits/Stains			Oily Plow Line Paint Other:	sediment and algae	nd algae	
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:			
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	ttfall Characteri;	zation			-	

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

☐ Potential (presence of two or more indicators)

T Unlikely

Obvious

Suspect (one or more indicators with a severity of 3)

Subwatershed:	kgrou		······································		Outfal	LID: P	15		
Today's date:	-7	-13-1	7)			(Military):	35		<del></del>
Investigators:	<del>-7</del> /	- M				completed by:			
Temperature (°F)	<del></del>	- 11		fall (in.): Last 24 hours:		hours: 0	<del> </del>		
Latitutde: 2358			Longitude:		GPS U	Jnit:		GPS LMK	<del></del>
Camera: Nikon-			•		Photo	#s:		J	
Land Use in Dra	inage Ar	ea (Check all tha	at apply):						
1ndustrial					□ Op	en Space			
( Ultra-Urban I	Resident	ial		•	,	titutional			
☐ Suburban Res									
	nuciiliai								<del>,</del>
Commercial		a :: 101		nnows, vegetation along o					
Section 2: Out	<u> </u>	<u>.</u>						· ·	
LOCATIO	N	MATE	RIAL	SH	APE		DIMENSIO	NS (IN.)	SUBMERGED
	······	RCP	□СМР	Circular	Single	3	Diameter/Dimen	sions:	In Water:
r		□PVC	☐ HDPE	☐ Eliptical	Doub!	e	201	6	D No ☐ Partially
Closed Pipe		☐ Steel		Вох	☐ Triple				Fully
•		Other:	2011-	Other:	Other:				With Sediment: ☑ No
		A Career			, ojuner.	•			Partially  Fully
		☐ Concrete		<b>—</b>					
		☐ Earthen		☐ Trapezoid			Depth:		
Open drainag	e	☐ rip-rap		Parabolic			Top Width:	_	
•		Other:		Other:			Bottom Width: _		
☐ In-Stream		(applicable wl	en collecting	samples)	, .		<u></u>		
Flow Present?		☐ Yes	ĽΩŃο	<del></del>	p to Section	n 5	·	· - · · · · · · · · · · · · · · · · · ·	<u> </u>
Flow Description		☐ Trickle	☐ Moderate					• :	
(If present)				· · · · · · · · · · · · · · · · · · ·		<del></del>	· · · · · · · · · · · · · · · · · · ·	·	
Section 3: Qua	ntitati	ve Characte	rization				73.11 - 1.42 <u>- 1.42 - </u>		
	ARAME	TED		FIELD DATA FOR F	LOWING	. , , , ,			
Ρ/	ARAME	Volume		RESULT			NIT		QUIPMENT
□Flow #I		Time to fill	÷				Liter		
		Flow depth					Sec In		
		Flow width	<u>ō</u> , ,	3			t, In	~2	···
□Flow #2	λ	Teasured length		, .			t, In		
		Time of travel		<del></del>			Sec		
	emperat		-				°F		
	pН						Units	Te	est strip/Probe
	Ammon	ia					pm		Test strip

CHECK if	Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	Ming Outfalls Only  flow?	ing Outfalls Only  PESCRIP    Sewage	PESCRIPTION  Rancid/sour   Petroleum/gas Other:  Brown   Gray   Corange   See severity See severity Seper, etc.   Suds See severity  On-Flowing Outfalls  Corrosion   Descripting Corrosion   Descressive   Inhibited  dors   Colors   Corange   Corange   Corrosion   Colors   C	etroleum/gas  etroleum/gas  etroleum/gas  ced	1 - Faint   1 - Faint colors in sample bottle   1 - Slight cloudiness   1 - Few/slight; origin not obvious   sedim	RELATIVE  Is in sample  adiness   2-  c   2-  c   2-  c   2-  c   2-  c   2-  c   2-  c   3-	RELATIVE SEVERITY INDEX (1-3)  \[ \begin{align*}	1-3    3 - Noticeable from a distance   3 - Clearly visible in outfall flow   3 - Opaque   3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 6: Overall Outfall Characterization	fall Characteri	ization							
X Unlikely □ 1	Potential (prese	ence of two o	☐ Potential (presence of two or more indicators)		spect (one or mor	Suspect (one or more indicators with a severity of 3)	severity of	3) 🗌 Obvious	
Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?	icit Discharge (	Concerns (e.	g., trash or need	ed infrastruc	ture repairs)?				

Section 1: Bac	ekgrou	nd Data					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		<del></del>
Subwatershed:		<u> </u>		·	Outfal		55		•
Today's date:	7	13-18				(Military):			
Investigators:	<del>-</del>	$-m_1 n$				completed by:			
Temperature (°F	<del></del>	·		fall (in.): Last 24 hour		hours: 0			
Latitutde: 2358	837.854	I	ongitude:		GPS U	<del></del>	110	GPS LMK	<del>!</del> :
Camera: Nikon-					Photo	#s: ()(	292		
l /	inage Ar	ea (Check all that a	ipply):						
Industrial					Op	en Space			
☐ Ultra-Urban I	Resident	ial .			☐ Ins	titutional			÷
Suburban Re	sidential			,	Other:	-			<u> </u>
10 Commercial					Know	n Industries:	v		
Notes (e.g, orig		``.	ge crabs, Mi	nnows, vegetation alon	g canal is spa	rse, trash on si	de of canal, paper	and plastic.	
LOCATIO	N	MATER	[AL	S	НАРЕ		DIMENSI	ONS (IN.)	SUBMERGED
₹,.		☐ RCP	СМР	Æ Circular	Single	;	Diameter/Dimer	nsions:	In Water:
:		□ PVC	☐ HDPE	☐ Eliptical	☐ Doub!	e	16"		⊠No □ Partially
☑ Closed Pipe		☐ Steel		Вох	Triple				Fully
		Other: LOI	VU	Other:	Other:				With Sediment: 12√No
					,	· <del></del>			Partially  Fully
		Concrete							
		☐ Earthen		Trapezoid			Depth:		
Open drainag	;e	☐ rip-rap		☐ Parabolic		•	Top Width:	_	
				Other:			Bottom Width:	<del></del>	
☐ In-Stream		Other:(applicable when	collecting	eamples)					
Flow Present?		Yes	√Z-No		kip to Section				ere <sup>in</sup>
Flow Description					nip to section				<u> </u>
(If present)	<del></del>	☐ Trickle [	Moderate	e Substantial					
Section 3: Qua	ntitati	ve Characteriz	zation						· · · · · · · · · · · · · · · · · · ·
				FIELD DATA FOR	FLOWING	OUTFALLS	100 miles		
P	ARAME	TER	: -	RESULT		U	NIT	E	QUIPMENT
□Flow#1		Volume				I	iter		
		Time to fill					Sec		
		Flow depth					In		
Flow #2		Flow width	<u>o</u> , ,	,		F	t, In		•
	N	Aeasured length	0, ,	>	•	F	t, In		
i.		Time of travel					Sec		
	Tempera	ture					°F		
	pН					pН	Units	Te	st strip/Probe
	Ammon	ia .				р	pm		Test strip

Are Any Physical Indicators Present in the flow?	CHECK if  CHECK if  Present  CHECK if  Declaration of the control	flow?   Yes	DESCRIPTION    Sewage	DESCRIPTION  our	m/gas    Yellow			RELATIVE SEVERITY INDEX (1-3)    2 - Easily detected	(1-3)    3 - Noticeable from a distance   3 - Clearly visible in outfall flow   3 - Opaque   3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)	
Section 6: Overall Outfall Characterization Unlikely   Potential (presence of	fall Characteriz Potential (prese	zation	Outfall Characterization  Potential (presence of two or more indicators)		uspect (one or mo	re indicators with a	sexierity of			_
_	rotennai (prese	ance of two o	or more indicators)		suspect (one or mo	Suspect (one or more indicators with a severity of 3)	severity of	3) 🗀 Obvious		
										_

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

Section 1: Bacl	kgrou	nd Data							
Subwatershed:					Outfall ID	):	P 35		,
Today's date:	7	-13-1	D		Time (Mil	litary):			
Investigators:		72 n	rin		Form com	pleted by:			,
Temperature (°F):	<del></del> -		Rainf	fall (in.): Last 24 hours: (	0 Last 48 ho	urs: 0			
Latitutde: 23588	837.854	I	Longitude:		GPS Unit	:		GPS LMK #:	
Camera: Nikon-					Photo #s:				
١ ٨	nage Are	ea (Check all that a	ipply):					•	
Industrial					Open S	Space			
☐ Ultra-Urban R	<b>Lesidenti</b>	ial			☐ Institu	tional			
☐ Suburban Resi	idential			•	Other:	• •			<del>_</del>
Commercial				•	Known In	dustries: _			
/	n of out	fall, if known): larg	ge crabs, Mi	nnows, vegetation along c					
			•						
						<del></del>	<del>.</del> .		
Section 2: Outf				T					T
LOCATION	<u> </u>	MATER			APE			ONS (IN.)	SUBMERGED
	•		☐ CMP	√ Circular	A-Single		Diameter Dimen	sions:	In Water: ☑ No
			HDPE	☐ Eliptical	☐ Double		$-\nu$		☐ Partially ☐ Fully
Selosed Pipe	*	Steel		Вох	☐ Triple		1		
,		Other:		☐ Other:	Other:	<u>.                                    </u>			With Sediment:
,	a.		. 5						☐ Partially ☐ Fully
		Concrete		Ţ <u></u>	<del></del>				
		Earthen		Trapezoid			Depth:		
Dpen drainage	3	∏ rip-rap		Parabolic Parabolic			Top Width:	_	
		Other:		Other:		,	Bottom Width:	<del></del> .	
☐ In-Stream		(applicable when		somnles)	1-1				
Flow Present?		☐ Yes	No.		p to Section 5		<u> </u>		
Flow Description			_/		O to Bection 5		<del>~</del>		
(If present)		Trickle [	Moderate	Substantial					
Section 3: Quar	ntitati	– ve Characteris	ration						
200000000000000000000000000000000000000	11 22 22 22	Te enaracteria		FIELD DATA FOR FL	OWING OU	TFALLS		<del>.</del>	<del> </del>
PA	ARAME			RESULT			NIT	EQ	UIPMENT
		Volume			- '		Liter		<u> </u>
□Flow#1		Time to fill					Sec .		
		Flow depth		A	· -		In		
		Flow width	0, "	,		F	t, In		
□Flow #2	M	leasured length	0' "	,	-	F	t, In		, , ,
<u> </u>		Γime of travel			_	- :	Sec		·
Te	emperat	ure					°F		
	pН					pН	Units	Tes	t strip/Probe
	Ammoni	ia					pm	-	Test strip

Section 4: Physical Indicators for Flowing Are Any Physical Indicators Present in the flow?	Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	Dutfalls Only  Yes ZMo (If No, Skip to Section 5)			
INDICATOR	CHECK if Present	DESCRIPTION	RELATIVI	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor	☐ Sewage	wage □ Rancid/sour □ Petroleum/gas Ifide □ Other:	□ 1 – Faint □ 2	☐ 2 — Easily detected	☐ 3 - Noticeable from a distance
Color	☐ ☐ Clear	ear Brown Gray Yellow  Teen Orange Red Other:	☐ 1 ~ Faint colors in ☐ 2 sample bottle sam	☐ 2 – Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbidity		See severity	☐ 1 – Slight cloudiness ☐ 2	2—Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper, etc.) Suds  Petroleum (oil sheen) Other:	☐ 1 — Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	nce due to low tide				
Section 5: Physical In Are physical indicators	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls  Are physical indicators that are not related to flow present? Yes ZANO (If No, Skip to Section 6)	ction 6)		
INDICATOR	CHECK if Present	DESCRIPTION		COMMENTS	<b>53</b>
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	nt		
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment and algae	ae	
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	en		
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	tfall Characterization				
Unlikely 🔲	Potential (presence of	Potential (presence of two or more indicators)   Suspect (one or more in	Suspect (one or more indicators with a severity of 3)	Obvious	
	:  -  -				

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

Section 1: Bac	kgrou	nd Data		,					
Subwatershed:					Outfal	1 ID:			
Today's date:		7-15	-10		Time (	(Military):			
Investigators:	R	- M	· 10/		Form	completed by:			
Temperature (°F	):		Rainf	fall (in.): Last 24 hours:	0 Last 48	3 hours: 0			
Latitutde: 2358	837.854		Longitude:		GPS U	Jnit:		GPS LMK #	<i>t</i> :
Camera: Nikon-				·	Photo	#s:			
Land Use in Dra	inage Ar	ea (Check all th	at apply):						
Industrial					□Ор	en Space			
Ultra-Urban I	Residenti	ial		÷	☐ Ins	titutional			
Suburban Res	sidential				Other:				
Commercial					Know	n Industries:	<del></del>		
Notes (e.g, original section 2: Out	<del></del> -		large crabs, Mil	nnows, vegetation along o	canal is spar	rse, trash on sid	le of canal, paper	and plastic.	
LOCATIO	·····	T	ERIAL	SH	IAPE	,	DIMÉNSIC	ONS (IÑ.)	SUBMERGED
		RCP	СМР	Circular	Single		Diameter/Dimen		In Water:
		□ PVC	☐ HDPE	☐ Eliptical	Doubl		10"		☐ No ☐ Partially
Closed Pipe	,	Steel	•	☐ Box	☐ Triple				Fully
, ,		Other:	_	☐ Other:	Other:				With Sediment:
									Partially Fully
		☐ Concrete	<del></del>	1	<del></del>				
		☐ Earthen	•	☐ Trapezoid			Depth:		
Open drainag	,e	☐ rip-гар		☐ Parabolic	•		Top Width:		
•		Other:		Other:		-	Bottom Width: _	<u>.                                      </u>	
☐ In-Stream		(applicable w	hen collecting	samples)					<u>्रित्रेत्रात्रात्रात्रात्रात्रात्रात्रात्रात्रा</u>
Flow Present?		☐ Yes	√No	If No, Ski	ip to Section	n 5			
Flow Description (If present)		☐ Trickle	Moderate	Substantial			***************************************		
Section 3: Qua	ntitati	ve Characte	rization			٠			
				FIELD DATA FOR F	LOWING	OUTFALLS			
P	ARAME	TER	. , .	RESULT		U	NIT	je . E€	QUIPMENT
□Flow#1		Volume				L	iter		
		Time to fill					Sec		
	<u> </u>	Flow depth			1		In		
□Flow #2		Flow width	0, "	,		F	t, In	·	
LJI 10 11 11 2	N	leasured length	<u>0</u> ' "	,		F	t, In		
		Time of travel				·	Sec		
	remperat .	ure					°F	9	
•	pН					pH	Units	Те	st strip/Probe
	Ammon	.:_							Tost atrin

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow? Yes

(1-3)  3 – Noticeable from a distance  3 – Clearly visible in outfall flow  3 – Opaque  3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)  55	RELATIVE SEVERITY INDEX (1-3)  \[ \begin{array}{c} 2 - Easily detected \\ \text{Sample bottle} \\ \text{Sample bottle} \\ \text{D of origin (e.g., possible suds or oil sheen)} \end{array} \]  \[ \begin{array}{c} COMMENTS \\ \text{COMMENTS} \\ \text{COMMENTS} \\ \text{COMMENTS} \\ \text{COMMENTS} \\ \text{COMMENTS} \end{array}	- Faint colors in sample bottle - Slight cloudiness vious sedim	pESCRIPTION  ancid/sour   Petroleum/gas  ther:  rown   Gray   Yellow  range   Red   Other:  See severity  See severity  Per, etc.)   Suds  an)   Other:  DESCRIPTION  DESCRIPTION  See Severity  See severity  DESCRIPTION  D	INDICATOR   CHECK if	TNDICATOR  Codor  Color  Turbidity  Floatables -Does Not Include Trash!!  Notes: Potential tidal influence due to low tide Are physical Indicators for Bc Are physical indicators that are not relate physical indicators that are not relate physical indicators that are not relate physical indicators that are not relate physical indicators that are not relate physical indicators that are not relate physical indicators that are not relate physical indicators that are not relate physical indicators that are not relate physical indicators that are not relate physical indicators that are not relate physical indicators that are not relate physical indicators that are not relate physical indicators in Check if  Outfall Damage  Deposits/Stains  Phoor pool quality  Phor pool quality  Pipe benthic growth
				Section 6: Overall Outfall Characterization	Section 6: Overall Out
			☐ Orange ☐ Green		Pipe benthic growth
			☐ Colors ☐ Floatables ☐ Excessive Algae		Poor pool quality
			1		bnormal Vegetation
	and algae	sediment a	☐ Flow Line ☐ Paint		Deposits/Stains
			Spalling, Cracking or Chipping Cortosion		Outfall Damage
S	COMMENT		DESCRIPTION	CHECK if Present	INDICATOR
		on 6)		dicators for Both Flowing that are not related to flow	ion 5: Physical Indohysical Indohysical indicators
sanitary materials)	sheen)				riasin: S: Potential tidal influer
(e.g., obvious oil sheen, suds, or floating saniary materials)	☐ 2 – Some; indications of origin (e.g., possible suds or oil stheen)	1 - Few/slight; origin not obvious	etc.) 🔲 Suds	☐ Sewage ☐ Sewage ☐ ☐ Petroleu	Floatables ocs Not Include Trash!!
3 - Opaque	2 – Cloudy	☐ 1 — Slight cloudiness			Turbidity
3 – Clearly visible in outfall flow	☐ 2 — Clearly visible in sample bottle	☐ 1 – Faint colors in sample bottle	☐ Gray ☐ Yellow ☐ Red ☐ Other:		Color
3 – Noticeable from a distance	2 - Easily detected	1 – Faint	☐ Rancid/sour ☐ Other:		Odor
(1-3)	LATIVE SEVERITY INDEX	REI	DESCRIPTION	CHECK if Present	INDICATOR
			ONI	1	

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

Section 1: Bac	kground	d Data			·			
Subwatershed:					Outfall ID:	035		
Today's date:	. ,	7-13-11	,		Time (Military):			
Investigators:	,	7-13-16 RMIN	7		Form completed b	y:		
Temperature (°F)		٠.	1	fall (in.): Last 24 hours: (	Last 48 hours: 0	,	•	
Latitutde: 2358	837.854	Long	itude:		GPS Unit:		GPS LMK #	
Camera: Nikon-	****				Photo #s:	1 h		
Land Use in Drai	inage Area	(Check all that apply	/):					
Industrial					Open Space			
Ultra-Urban F	Residential	i			Institutional			
Suburban Res	sidential				Other:	· —————		<del></del>
Commercial					Known Industries	:		
Section 2: Out	:		abs, Mii	nnows, vegetation along ca	anal is sparse, trash on	side of canal, paper	and plastic.	
LOCATIO	N	MATERIAL		SHA	<b>NPE</b>	DIMENSIO	NS (IN.)	SUBMERGED
		RCP C	MP	(Circular	Single	Diameter/Dimen	sions:	In Water:
	[	□ PVC □ H	IDPE	☐ Eliptical	☐ Double	16"	· .	No □ Partially □ Fully
Closed Pipe		Steel		☐ Box	Triple	•		With Sediment:
	ļ	Other: CONL	-	Other:	Other:			With Sediment:    No   Partially   Fully
☐ Open drainag	e [	<ul> <li>☐ Concrete</li> <li>☐ Earthen</li> <li>☐ rip-rap</li> <li>☐ Other:</li> </ul>		☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width: _		
☐ In-Stream	(	applicable when col	lecting	samples)		· ·		<u>। त्रम्ययम् सम्बद्धाः सम्बद्धाः सम्बद्धाः सम्बद्धाः सम्बद्धाः सम्बद्धाः सम्बद्धाः सम्बद्धाः सम्बद्धाः सम्बद्धाः</u>
Flow Present?		☐ Yes	ÇŁN0	If No, Skij.	to Section 5		<u> </u>	
Flow Description (If present)	С	Trickle M	/ Ioderate	Substantial			,	
Section 3: Oua	ntitative	e Characterizati	on					
				FIELD DATA FOR FL	OWING OUTFALL	s .		
P/	ARAMETI	ER		RESULT		UNIT	EC	UIPMENT
		Volume				Liter	· · · · · ·	1 1 .
□Flow#I	ī	Time to fill			<del> :-</del>	Sec	•	
	F	Flow depth				In		
□R! #2	F	Flow width	0, "	1		Ft, In		
□Flow #2	Me	asured length	<u>0</u> , "			Ft, In		
	Ti	me of travel		*	·	Sec		
Т	remperatur	re				°F		•
	pН				1	oH Units	Tes	t strip/Probe
	Ammonia	,				ppm		Test strip

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

Section I: Ba	ickgrou	ind Data						
Subwatershed:					Outfall ID:	1		
Today's date:	4	15-10			Time (Military):			
Investigators:		RMIN	V	······································	Form completed by	/:		<del>.</del>
Temperature (°	F):		Rain	fall (in.): Last 24 hours: (	Last 48 hours: 0			
Latitutde: 235	8837.854		Longitude:		GPS Unit:		GPS LMK#	l:
Camera: Nikon	-			Mr	Photo #s:	76		
Land Use in Dr	ainage Ai	rea (Check all that	apply):				<del></del>	
<b>⊞</b> -Industrial					Open Space			
Ultra-Urban	Resident	ial			☐ Institutional		•	
Suburban Re	esidential				Other:			
Z Commercial	1				Known Industries:			<del></del>
Notes (e.g, ori	gin of out	fall, if known): la	rge crabs, Mi	nnows, vegetation along ca	anal is sparse, trash on s	side of canal, paper	and plastic.	
Section 2: Ou	tfall De	escription	·					
LOCATIO		MATER	RIAL	SHA	\PE	DIMENSIO	NS (IN.)	SUBMERGED
		RCP	□СМР	Circular	Single	Diameter/Dimens	sions:	In Water:
		□ PVC	HDPE	☐ Eliptical	☐ Double	4		No ☐ Partially
Closed Pipe		Steel		Вох	☐ Triple			Fully
/		Other:	ONC	☐ Other:	Other:			With Sediment:
		ľ 						Partially Fully
		Concrete						
F=		☐ Earthen		☐ Trapezoid		Depth:		
Open drainag	ge	☐ rip-rap		Parabolic		Top Width:	_	
		☐ Other:		Other:		Bottom Width:		
In-Stream		(applicable whe		samples)		<u> </u>		
Flow Present?		☐ Yes	V No		to Section 5	· · · · · · · · · · · · · · · · · · ·		
Flow Description (If present)	1	☐ Trickle	☐ Moderate		· · · · · · · · · · · · · · · · · · ·			
Section 3: Qua	antitati	ve Characteri	zation					
				FIELD DATA FOR FL	OWING OUTFALLS			
. р	PARAME	TER		RESULT		TINL	EQ	UIPMENT
∏Flow#1	<u></u>	Volume				Liter		
	ļ	Time to fill		<del></del>		Sec	<del></del>	
	-	Flow depth				In		
□Flow #2	<del></del>	Flow width	0' "	·		Ft, In		·
	-	leasured length Time of travel	0' "		1	Ft, In	<del></del>	
	Temperat		·			Sec		
	рН			<u> </u>		°F I Units	Т	t strin/Prohe
	Ammon	in						t strip/Probe
	Ammon	151	1		1	ppm	•	Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes

INDICATOR	CHECK if Present	-	. <del>""</del>	DESCRIPTION	 *		<b>44</b>	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	Rancid/sour	our 🔲 Petroleum/gas	ı/gas		□ 1 – Faint	2 - Easily detected	3 – Noticeable from a distance
Color		Clear	☐ Brown ☐ Orange	☐ Gray	Yellow Other:		☐ I — Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity				See severity			1 – Slight cloudiness	2-Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper	Sewage (Toilet Paper, etc.)	.) Suds			1 - Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	ence 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?	ndicators for Bot s that are not rela	th Flowing a ted to flow p	and Non-Flov resent?	wing Outfalls Yes XNo		(If No, Skip to Section 6)	on 6)		
INDICATOR	CHECK if Present	Present		1	DESCRIPTION	Z		COMMENTS	S
Outfall Damage			Spalling,	Spalling, Cracking or Chipping Corrosion		Pecling Paint			
Deposits/Stains				Flow Line Paint		Other:	sedime	sediment and algae	
Abnormal Vegetation			☐ Excessive	Inhibited					
Poor pool quality			Odors Suds	☐ Colors ☐ ☐ Excessive Algae	☐ Floatables Jgae	s Oil Sheen Other:			
Pipe benthic growth			☐ Brown	Orange	Green	Other:			
Section 6: Overall Outfall Characterization	utfall Characteri	zation		ŧ					

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

☐ Potential (presence of two or more indicators)

Unlikely

□ Obvious

☐ Suspect (one or more indicators with a severity of 3)

Section 1: Bac	kgrou	nd Data				•			
Subwatershed:					Outfal	ID:			
Today's date:	7.	-13-10		•	Time	(Military):			
Investigators:	1	-13-10 - M1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Form	completed by:			
Temperature (°F)			Raint	all (in.): Last 24 hours: (	D Last 48	3 hours: 0	•		
Latitutde: 23588	837.854	Lon	gitude:		GPS U	Jnit:		GPS LMK #	• - /
'Camera: Nikon-					Photo	#s:	,	•	
Land Use in Drai	nage Ar	ea (Check all that appl	y):						
√Z Industrial		·			□Ор	en Space			
/ □ Ultra-Urban R	Residenti	ial			☐ Ins	titutional			
☐ Suburban Res	idential				Other:		<del></del>		
Commercial					Know	n Industries:			
Notes (e.g, origi		escription		nnows, vegetation along c	anal is spa	rse, trash on si	de of canal, paper	and plastic.	
LOCATION	V	MATERIAI	•	SHA	APE		DIMENSIO	ONS (IN.)	SUBMERGED
Closed Pipe			CMP HDPE	Circular Eliptical Box	☐ Doubl	le	Diameter/Dimer	nsions:	In Water: No Partially Fully With Sediment:
		S Other: _ C O		Other:	Other	:			∰-No ☐ Partially ☐ Fully
☐ Open drainage	<b>2</b> .	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:			Depth: Top Width: Bottom Width: _		
☐ In-Stream		(applicable when co	llecting	samples)			7 -		
Flow Present?		☐ Yes	ZJ-No	If No, Skip	o to Sectio	n 5		· · · · · · · · · · · · · · · · · · ·	
Flow Description (If present)			Moderate		• · · · · · · · · · · · · · · · · · · ·				
Section 3: Quar	ntitati	ve Characterizat	ion		•				
				FIELD DATA FOR FL	OWING	OUTFALLS			
P.A	ARAME	TER		RESULT		⊻∪	NIT	EÇ	QUIPMENT
□Flow#1		Volume				I	iter		
		Time to fill					Sec		
		Flow depth					In		
□Flow #2		Flow width	0, ,			·F	t, In	•	
	N	Measured length	<u>o</u> ' '			F	t, In		
	•	Time of travel					Sec		
T	emperat	ture					°F		
	pН					pH	Units	Tes	st strip/Probe
	Ammon	nia				р	pm		Test strip

(If No, Skip to Section 5)	<del>୪</del>	rr		See severity $\Box 1$ – Slight cloudiness $\Box 2$ – Cloudy $\Box 3$ – Opaque	□ Suds       □ 1 – Few/slight; origin       □ 2 – Some; indications of origin clear of origin (e.g., obvious oil not obvious sheen)       □ 1 – Few/slight; origin of origin (e.g., obvious oil sheen, suds, or floating sheen)		ing Ourfalls Yes TFNo (If No, Skip to Section 6)	DESCRIPTION	racking or Chipping 🔲 Peeling Paint	ow Line	□ Inhibited	☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Excessive Algae ☐ Other:	□ Orange □ Green □ Other:		
Section 5)		□ 1 – Faint		☐ 1 — Slight cloudin	☐ 1 – Few/slight; or not obvious		(If No, Skip to Section 6)	IPTION							
o Z	DESCR	☐ Rancid/sour ☐ Other:		See severity	<ul> <li>Sewage (Toilet Paper, etc.)</li> <li>□ Suds</li> <li>□ Petroleum (oil sheen)</li> <li>□ Other:</li> </ul>			DESCRI	Spalling, Cracking or Chipping Corrosion	☐ Oily ☐ Flow Line ☐ Paint	☐ Excessive ☐ Inhibited	Colors Excessive Alg			
Ö □	CHECK if Present	Sewage	☐ Clear☐ Green☐ Green		Sewage	e due to low tide	icators for Both Flowing hat are not related to flow	CHECK if Present						all Characterization	
Section 4: Physical Indicators for Flowing Are Any Physical Indicators Present in the flow?	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indi Are physical indicators th	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	•

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

Section 1: Ba	ckgrou	ınd Data				,		
Subwatershed:					Outfall ID:			<del></del>
Today's date:	7	-13-	10		Time (Military):			
Investigators:	1		M. N		Form completed by			
Temperature (°I	F):		Raint	fall (in.): Last 24 hours:	0 Last 48 hours: 0			
Latitutde: 235	8837.854	ļ	Longitude:		GPS Unit:		GPS LMK #	<del></del>
Camera: Nikon-					Photo #s:			
Land Use in Dra	ainage Aı	rea (Check all t	hat apply):				·	
<b>A</b> Industrial					Open Space		•	
Ultra-Urban	Resident	ial		•				
🗌 Suburban Re	sidential				Other:			<u> </u>
Commercial					Known Industries:		7.41	
Section 2: Ou	tfall De	escription		nnows, vegetation along c		de of canal, paper	and plastic.	F3-dr
LOCATIO	N	<del> </del>	ERIAL	SHA	APE	DIMENSIO		SUBMERGED
		RCP	СМР	Æ-Gircular	<b>⊠</b> Single	Diameter/Dimen	sions:	In Water:
<u></u>		□ PVC	HDPE	☐ Eliptical	☐ Double	10		Partially  Fully
☑-Closed Pipe		□-Steel	<u>م</u>	Вох	☐ Triple			
		Other:	SOM	Other:	Other:			With Sediment: No Partially Fully
		☐ Concrete				<del> </del>		
<del>-</del>		☐ Earthen		☐ Trapezoid		Depth:		
Open drainag	ţe	☐ rip-rap		Parabolic		Top Width:	_	
		Other:		☐ Other:		Bottom Width: _	·	
☐ In-Stream			hen collecting	samples)				
Flow Present?	····	Yes	□ No		o to Section 5			
Flow Description (If present)	·	Trickle	Moderate			· · · · · · · · · · · · · · · · · · ·		
Section 3: Qua	ıntitati	ve Characte	erization	•	1			
		-		FIELD DATA FOR FL	OWING OUTFALLS			
P	ARAME	TER		RESULT	u u	NIT	EC	QUIPMENT
□Flow#I		Volume			I	iter		
		Time to fill				Sec		
		Flow depth				In		
□Flow #2		Flow width	0 "		F	t, In		
	M	leasured length	<u>0</u> ' "		F	t, In		
		Time of travel		<u>:</u>		Sec		
	remperat	ure	···			°F		
<u> </u>	pН	*			pH	Units	Tes	st strip/Probe
	Ammon	ia			р	pm -,	,	Test strip

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow? 
Yes

INDICATOR	CHECK If Present		DESCRIPTION	REL	RELATIVE SEVERITY INDEX (1-3)	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 in sample bottle	2 Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity	☐ 1 — Slight cloudiness	2-Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper	etc.) Suds	. I – Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	fluence due to low tide					
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	Indicators for Bot ors that are not relai	h Flowing a ted to flow p	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls  Are physical indicators that are not related to flow present?	и б)		:
INDICATOR	CHECK if Present	resent	DESCRIPTION		COMMENTS	10
Outfall Damage			Spalling, Cracking or Chipping   Peeling Paint			
Deposits/Stains			Oily   Flow Line   Paint   Other:	sediment and algae	nd algae	
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:			
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	Outfall Characteri	zation				
D Unlikely	Potential (presence of two or more indicators)	ence of two c	or more indicators) Suspect (one or more indicators with a severity of 3)	cators with a severity o	f3)	
Section 7: Any Non-	-Micit Discharge (	Concerns (e.	Section 7: Any Non-Ulicit Discharge Concerns (e.g. trash or needed infrastructure renairs)?			

Section 1: Ba	ckgrou	ınd Data							
Subwatershed:					Outfall	ID:	35-0	3	
Today's date:		8-9-10			Time (	Military):			
Investigators:	R	- BIN	<u> </u>	•	Form c	ompleted by	:	·	
Temperature (°1	?):		Rainf	fall (in.): Last 24 hor	urs: 0 Last 48	hours: 0			
Latitutde: 235	8837.854	ļ	Longitude:	·	GPS U	nit:		GPS LMK	<b>#</b> :
Camera: Nikon-	-		•		Photo #	fs:			
Land Use in Dra	ainage Ai	rea (Check all tha	at apply):			•	٠		
¥ Industrial					□Оре	n Space			.F*
Ultra-Urban	Resident	tial			☐ Inst	itutional			
Suburban Re	sidential				Other:				
Commercial					Known	Industries:			
Notes (e.g, orig			arge crabs, Mi	nnows, vegetation alo	ng canal is spar	se, trash on s	ide of canal, paper	and plastic.	
LOCATIO	N.	MATE	RIAL		SHAPE	A Section 1	DIMENSIO	NS (IN.)	SUBMERGED
		RCP	□СМР	⊠Circular	<b>∑</b> Single		Diameter/Dimen	sions:	In Water:
		□ PVC	HDPE	☐ Eliptical	☐ Double	<b>:</b>	24"		□ No ☑ Partially
Closed Pipe		☐ Steel		Box	☐ Triple		•		☐ Fully
		Other: Co	NCFERE	Other:	Other:	<del></del>			With Sediment: ☐ No ☐ Partially
		  -				, <i>'</i>			☐ Fully
		Concrete		☐ Trapezoid			Depth:		
Open draina	<b>3</b> e	☐ Earthen		☐ Parabolic			Top Width:		
	,•	🗌 rip-гар							
		Other:		Other:			Bottom Width: _		
☐ In-Stream		(applicable wh	en collecting	samples)				1. 2. 4.4	раменториоденностинарно подпосот
Flow Present?	5	Yes	<b>√</b> Z⊅N₀	If No,	Skip to Section	5			- <del>1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1</del>
Flow Description (If present)	l	☐ Trickle	☐ Moderate	☐ Substantial					
ection 3: Qua	ntitati	ive Characte	rization						
· · · · · · · · · · · · · · · · · · ·				FIELD DATA FOR	R FLOWING (	OUTFALLS	<del></del>	•	
P	ARAME	TER		RESULT			TINU	E	QUIPMENT
□E1#1		Volume		i			Liter	***	
∏Flow #I		Time to fill			,		Sec		
		Flow depth					In		-
□Flow #2		Flow width	<u>0</u> ' "				Ft, In		
	N	leasured length	<u>0</u> ' "				Ft, In		
	<u> </u>	Time of travel					Sec		
	remperat	ture	<del></del>				°F		
	pН					pŀ	I Units	Te	st strip/Probe
	Ammon	ia .	, ·				ppm		Test strip

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

Section 1: Bac	kgrou	nd Data					<u> </u>		
Subwatershed:					Outfall	ID:	35-05	<del> </del>	
Today's date:	8-	9-10			Time (N	Military):		· · · · · · · · · · · · · · · · · · ·	
Investigators:	15	- m	n nor		Form co	ompleted by:			
Temperature (°F	):		Rainf	all (in.): Last 24 hours:	0 Last 48 I	hours: 0			
Latitutde: 2358	837.854		Longitude:		GPS Un	nit:		GPS LMK#	
Camera: Nikon-					Photo #:	s:			<u></u>
Land Use in Dra	inage Ar	ea (Check all tha	at apply):						
☑ Industrial	•			•	□ Орег	n Space			
Ultra-Urban I	Resident	ial		•	☐ Insti	itutional			-
Suburban Res	sidential				Other: _	•		<del></del>	
Commercial					Known	Industries:	<del></del>		
Notes (e.g, orig	<u>.</u>		arge crabs, Mir	nnows, vegetation along c	anal is spars	e, trash on sid	le of canal, paper	and plastic.	
LOCATIO	N	MATE	RIAL	SH	APE		DIMENSIC	NS (IN.)	SUBMERGED
		RCP	□СМР	Çircular	Single		Diameter/Dimen	sions:	In Water:
		<b>▼</b> PVC	☐ HDPE	☐ Eliptical	Double	:			No ☐ Partially ☐ Fully
Closed Pipe		☐ Steel		Вох	☐ Triple				☐ Fully With Sediment:
		Other:	·	☐ Other:	Other:				With Sediment:  No Partially
			<u>.</u>				-		Fully
		Concrete		Taraid			D 45.		
_		☐ Earthen		☐ Trapezoid			Depth:	÷	
Open drainag	ge	☐ rip-rap		Parabolic			Top Width:	_	
		☐ Other:		☐ Other:			Bottom Width: _		
☐ In-Stream		(applicable wh	en collecting:	samples)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12.	<u> </u>		
Flow Present?		X Yes	□No		ip to Section	5			· · · · · · · · · · · · · · · · · · ·
Flow Description (If present)		☐ Trickle	Moderate					· · · · · · · · · · · · · · · · · · ·	
Section 3: Qua	ntitati	ve Characte	 rization						
occion or &	14.67.000.	TO CHAIRCID.	I IZIO CIO II	FIELD DATA FOR FL	LOWING C	OUTFALLS	<del></del>		
P.	ARAME	TER		RESULT			NIT	EQ	UIPMENT
☐Flow #1		Volume		· · · · · · · · · · · · · · · · · · ·		L	iter		
[_]r tow #1		Time to fill			`		Sec		
		Flow depth					In		·
□Flow #2		Flow width	0, "			F	t, In		
L1110# #2	N	Aeasured length	0, "			F	t, In		
		Time of travel		<u> </u>			Sec		
1	l'emperat	ture ·					°F		
	pН					pH	Units	Tes	t strip/Probe
	Ammon	ıia .				р	pm	-	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?  Yes	ndicators for Flor	wing Outfa	utfalls Only Yes Kno (If No, Skip to Section 5)		I
INDICATOR	CHECK if Present		DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)	
Odor		Sewage Sulfide	ge 🗌 Rancid/sour 🗖 Petroleum/gas 🛅 I – Faint e 📋 Other:	2 Easily detected distance	T
Color		Clear Green	□ Brown     □ Gray     □ Yellow       □ Other:     □ Sample bottle	2 – Clearly visible in ample bottle outfall flow	
Turbidity			See severity	2-Cloudy	1
FloatablesDoes Not Include Trash!		☐ Sewage	<ul> <li>□ Sewage (Toilet Paper, etc.)</li> <li>□ Nuds</li> <li>□ 1 - Few/slight; origin not obvious</li> </ul>	☐ 2 – Some; indications of origin (e.g., obvious oil possible suds or oil sheen, suds, or floating sheen)	
Notes: Potential tidal influence due to low tide	ance due to low tide	,			
Section 5: Physical Indicators for Both Flowing and Non-Flowing  Are physical indicators that are not related to flow present?	idicators for Botls that are not relat	<b>h Flowing</b> ed to flow p	g and Non-Flowing Outfalls  w present?		Ī
INDICATOR	CHECK if Present	resent	DESCRIPTION	COMMENTS	
Outfall Damage			Spalling, Cracking or Chipping		
Deposits/Stains			☐ Oily ☐ Flow Line ☐ Paint ☐ Other: sediment and algae	and algae	_
Abnormal Vegetation			☐ Excessive ☐ Inhibited		_
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:		,
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:		_
Section 6: Overall Outfall Characterization	ıtfall Characteriz	zation			,
X Unlikely □	Potential (prese	nce of two	Defential (presence of two or more indicators) Suspect (one or more indicators with a severity of 3)	of3) 🗌 Obvious	
Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or need	llicit Discharge C	Concerns (e	(e.g., trash or needed infrastructure repairs)?		

SOURCE

RANDAL CHEKNIG ON SOURL POTENTALY FLOW ICE PLANT

Section 1: Bac	ckgrou	nd Data							<u> </u>
Subwatershed:					Outfal	I ID:			
Today's date:					Time (	(Military):			
Investigators:					Form	completed by:			
Temperature (°F	·):		Rain	nfall (in.): Last 24 hours: 0	Last 48	3 hours: 0			
Latitutde: 2358	8837.854		Longitude:		GPS U	Jnit:		GPS LMK #	;
Camera: Nikon-					Photo	#s:			
Land Use in Dra	inage Ar	ea (Check all tha	t apply):						•
☐ Industrial				2	Op	en Space		3,	5 CORVE
Ultra-Urban l	Residenti	al			☐ Ins	titutional			CORNE
Suburban Re	sidential			17/	Other:	<u> </u>			· · · · · · · · · · · · · · · · · · ·
☐ Commercial			V	ICIC	- Know	n Industries: _	$\bigcirc$		
Notes (e.g, orig	in of out	fall, if known): la	rge crabs, M	linnows, vegetation along ca	nal is spa	rse, trash on si	de of canal, paper	and plastic.	
Section 2: Out	tfall De	scription	I	1.10	0	,	( N	12	
LOCATIO	N	MATE	RIAL /	/ / / SHA	PE		DIMENSI	ONS (IN.)	SUBMERGED
	,	RCP	□СМР	☐ Circular	Single	· · · · · · · · · · · · · · · · · · ·	Diameter/Dimer	nsions:	In Water:
		□ PVC	□нрре	☐ Eliptical	□ Doubl	le			☐ No ☐ Partially
Closed Pipe		Steel	_/		— ☐ Triple			<del></del>	Fully
Closed 1 the	÷				_				With Sediment:
		Other:		Other:	Other	·			☐ No☐ Partially☐ Fully☐ Sully☐ Partially☐ Rully☐ R
	<del></del> -	☐ Concrete						7-1-10	
		☐ Earthen		☐ Trapezoid			Depth:		
Open drainag	ge .	rip-rap		Parabolic			Top Width:	<u> </u>	
•		Other:		☐ Other:			Bottom Width:		
☐ In-Stream		(applicable wh	en collectine	r camples)					
Flow Present?		Yes	□ No						
Flow Description					10 Secilo	<i>n s</i>	···		
(If present)		Trickle	☐ Modera	te Substantial		· · ·			
Section 3: Qua	ntitati	ve Character	ization					·=*	
		<u> </u>		FIELD DATA FOR FLO	OWING	OUTFALLS	· · · · · · · · · · · · · · · · · · ·		
P	ARAME	TER		RESULT		U	NIT	EQ	UIPMENT
□Flow #1		Volume				I	iter		
		Time to fill			<del></del>		Sec		
		Flow depth					Ĭn		
□Flow #2		Flow width	0'	32		F	t, In		
		leasured length	0,	"		F	t, In	•	
	1	Γime of travel				5	Sec		
	Γemperat	ure					°F		
_ <del></del>	pН					pН	Units	Tes	t strip/Probe

ppm

Test strip

Ammonia

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?   Yes	ndicators for Flo	wing Outf.	tfalls Only Yes \square \square \square		(If No, Skip to Section 5)	(5)				
INDICATOR	CHECK if Present		<del>.</del>	DESCRIPTION				RELA	RELATIVE SEVERITY INDEX (1-3)	1-3)
Odor		Sewage Sulfide	☐ Rancid/sour	our 🔲 Petroleum/gas	n/gas		☐ 1 – Faint		2 – Easily detected	☐ 3 – Noticeable from a distance
Color		☐ Clear	☐ Brown ☐ Orange	Gray	☐ Yellow ☐Other:		☐ 1—Faint colors in sample bottle	·ii	☐ 2 — Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity				See severity			☐ 1 — Slight cloudiness	Jiness	2-Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		☐ Sewage ☐ Petroleu	Sewage (Toilet Paper, etc.)	c.) Suds Other:			☐ 1 — Few/slight; origin not obvious	origin	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	ence 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?	ndicators for Bot s that are not rela	th Flowing ted to flow	and Non-Flox present?	wing Outfalls ] Yes □ No		(Jf No, Skip to Section 6)	tion 6)	•		
INDICATOR	CHECK if Present	Present		-	DESCRIPTION	7	- · ·	. :	COMMENTS	
Outfall Damage		·	Spalling,	Spalling, Cracking or Chipping Corrosion	ping	Peeling Paint				
Deposits/Stains			□ Oily □ I	☐ Flow Line ☐ H	□ Paint □	Other:		sediment and algae	l algae	
Abnormal Vegetation			☐ Excessive	☐ Inhibited		Ė				
Poor pool quality		,	Odors Suds	☐ Colors ☐ Excessive Algae	☐ Floatables Igae	Oil Sheen				
Pipe benthic growth			☐ Brown	☐ Orange	Green	Other:				
Section 6: Overall Outfall Characterization	utfall Characteri	zation								
Unlikely	☐ Potential (presence of two or more indicators)	ence of two	or more indica	ators)	Suspect (on	e or more in	Suspect (one or more indicators with a severity of 3)	everity of	3) 🔲 Obvious	
Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?	Ilicit Discharge (	Concerns (6	e.g., trash or 1	needed infras	tructure rep	airs)?				

Section 1: Bac	kgrou	nd Data							
Subwatershed:					Outfall II	D: P	36-8	2 [	
Today's date:	8-	-9-10			Time (Mi	ilitary):			
Investigators:	6	2 Min	٦ ٢		Form cor	mpleted by:			
Temperature (°F	):		Rainf	fall (in.): Last 24 hours: 0	0 Last 48 ho	ours: 0	· ·		
Latitutde: 2358	8837.854	L	ongitude:		GPS Unit	t:		GPS LMK #:	
Camera: Nikon-		<u>.                                    </u>			Photo #s:	:			
Land Use in Dra	inage Ar	ea (Check all that a	pply):			_			
⊠-Industrial					Open	Space			
Ultra-Urban	Residenti	íal			☐ Institu	utional			
Suburban Re	sidential			•	Other:				
☑-Commercial				•	Known Ir	ndustries:	*		
Notes (e.g, orig	in of out	fall, if known): larg	e crabs, Mir	nnows, vegetation along ca	anal is sparse,	, trash on sid	ie of canal, paper	and plastic.	
Section 2: Out	tfall De	escription							
LOCATIO		MATERI	AL	SHA	APE	. T 4	DIMENSI	ONS (IN.)	SUBMERGED
		□ RCP [	СМР	<b>∑</b> -Ĉircular	Single		Diameter/Dimer	nsions:	In Water:
		₽VC [	HDPE	☐ Eliptical	☐ Double		Diameter/Dimer		□ Partially
⊠ Closed Pipe		Steel		□Box	☐ Triple				Fully
		Other:		☐ Other:	Other:				With Sediment:
									☐ Partially ☐ Fully
		☐ Concrete		☐ Trapezoid			Depth:		
Can decina		Earthen			•	•			
Open drainag	ţe	☐ rip-rap		Parabolic			Top Width:		
		☐ Other:	•	☐ Other:			Bottom Width:	<del></del>	
☐ In-Stream		(applicable when	collecting	samples)	. (	1 3 y			
Flow Present?		☐ Yes	оИ <b>-</b> М	If No, Skip	p to Section 5	5			
Flow Description (If present)		☐ Trickle ☐	☐ Moderate	: Substantial					· ·
Section 3: Qua	ntitati	ve Characteriz	zation						
		<u>.</u>	<u>.</u>	FIELD DATA FOR FL	OWING O	UTFALLS			
P.	ARAME	TER		RESULT		U	NIT	EQ	UIPMENT
□Flow#1	<u> </u>	Volume				L	iter		
		Time to fill					Sec		
		Flow depth					In		
□Flow #2		Flow width	0, "			F	t, In		
	<del></del>	Measured length	0, "				t, In		
	L	Time of travel					Sec		
	Гетрегаt	иге			·		°F		
	pН			<del></del>		рН	Units	Tes	st strip/Probe
•	Ammon	ia				p	pm	•	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?  Yes	ndicators for Flov	wing Outfalls	Only X No	(If No, Ski	(If No, Skip to Section 5)			:	
INDICATOR	CHECK if Present		DESC	SCRIPTION			RELA	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide.	☐ Rancid/sour ☐ ☐ Other:	☐ Petroleum/gas	as	1 – Faint		2 - Easily detected	3 – Noticcable from a distance
Color		☐ Clear ☐ Green	☐ Brown ☐ ☐ Orange ☐	☐ Gray ☐ Red	☐ Yellow ☐Other:	1 – Faint colors in sample bottle		2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			Sec	See severity		☐ 1 – Slight cloudiness	liness	2-Cloudy	3 – Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper, etc.)	, etc.)	Suds Other:		☐ I – Few/slight; origin not obvious	origin	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	ence 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?	ndicators for Botl s that are not relate	h Flowing and ed to flow pre	d Non-Flowing C sent?	Outfalls s M-No	(If No, Skip to Section 6)	Section 6)			
INDICATOR	CHECK if Present	resent		DE	DESCRIPTION			COMMENTS	
Outfall Damage	Ö		Spalling, Cracking or Chipping Corrosion	cing or Chippin	ng 🔲 Peeling Paint	Paint			
Deposits/Stains	•		☐ Oily ☐ Flow Line	igine 🔲 Paint	nt Other:		sediment and algae	l algae	
Abnonnal Vegetation			☐ Excessive ☐ I	] Inhibited					
Poor pool quality			Odors O	Colors	☐ Floatables ☐ Oil Sheen ae ☐ Other:	Sheen ar:		,	
Pipe benthic growth			☐ Brown ☐ (	☐ Orange [	☐ Green ☐ Other:	11.			
Section 6: Overall Outfall Characterization	ıtfall Characteriz	zation							
✓ Unlikely	Potential (presence of two or more indicators)	nce of two or 1	more indicators		uspect (one or mo	Suspect (one or more indicators with a severity of 3)	everity of	3) 🗌 Obvious	

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

Section 1: Bac	ekgrou	nd Data							
Subwatershed:					Outfal	1 ID: P 3	7-01	·-·-	
Today's date:	9-	9-10			Time	(Military):			-
Investigators:		L m	n		Form	completed by:	·	··	
Temperature (°F	"):		Rainf	all (in.): Last 24 hours: 0	Last 48	3 hours: 0			
Latitutde; 2358	3837.854	Lo	ngitude:		GPS U	Jnit:	•	GPS LMK #:	<del></del>
Camera: Nikon-					Photo	#s:			
Land Use in Dra	inage Ar	ea (Check all that ap	ply):				,		
[M] Industrial					□ Op	en Space			
☐ Ultra-Urban I	Residenti	ial			☐ Ins	titutional			
🔲 Suburban Re	sidential				Other:	•			
Commercial					Know	n Industries: _	<del></del>	•	
Notes (e.g, orig			crabs, Min	nnows, vegetation along ca	anal is spa	rse, trash on si	de of canal, paper a	and plastic.	· · · · · · · · · · · · · · · · · · ·
LOCATIO		MATERIA	\L	SHA	\PE		DIMENSIO	NS (IN.)	SUBMERGED
			СМР	☑ Circular	Single	<del></del> >			In Water:
			] HDPE	☐ Eliptical	☐ Doubl		Diameter/Dimens		MNo ☐ Partially ☐ Fully
Closed Pipe		☐ Steel		☐ Box	☐ Triple	•			-
,	•	Other:		Other:	Other:	:			With Sediment:  No Partially Fully
☐ Open drainag	çe	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		Trapezoid Parabolic Other:			Depth: Top Width: Bottom Width:		
☐ In-Stream	·····	(applicable when	alleating	somples)	, "		:		
Flow Present?		Yes	No 🔀	<del></del>	da Cardin	- 5	:	···	
Flow Description (If present)			Moderate	If No, Skip	to Section				
Santinu 2. Owa		Chanadania	4'						
section 3: Qua	mman	ve Characteriza	tion	FIELD DATA FOR FL	OWING	OUTEALLO	. ·		
p	ARAME	TFR		RESULT	23,7		NIT	ΕO	UIPMENT
		Volume	<u> </u>	NESSET .			iter		OIF ILIV
∐Flow#1		Time to fill				:	Sec		
		Flow depth					<u>In</u>		·
		Flow width	0, "			F	t, In		
∏Flow #2	M	leasured length	0' "			F	t, In		
	-	Γime of travel	1				Sec		· · · · · · · · · · · · · · · · · · ·
. 7	remperat	ure					°F	·	
	pН					• рН	Units	Tes	t strip/Probe
	Ammon	ia				p	pm	-	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?  Yes	ndicators for Flo	wing Outfa	alls Only		(If No, Skip to Section 5)			
INDICATOR	CHECK if Present			DESCRIPTION	-		RELATIVE SEVERITY INDEX (1-3)	X (1-3)
Odor		Sewage Sulfide	Rancid/sour	ʻsour 🔲 Petroleum/gas	n/gas	☐ 1 — Faint	2 - Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Green	Brown Orange	☐ Gray	☐ 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	s 2-Cloudy	☐ 3 ~ Opaque
Floatables -Does Not Include Trash!!		Sewage	Sewage (Toilet Paper, etc.)	c.) 🗌 Suds		☐ 1 – Few/slight; origin not obvious	in 2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	ence due to low tide	ر د						
Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	ndicators for Bot s that are not relat	th Flowing ted to flow 1	and Non-Flo	owing Outfalls ☐ Yes KNo	; (If No, Skip to Section 6)	Section 6)		
INDICATOR	CHECK if Present	Present			DESCRIPTION		COMMENTS	VTS
Outfall Damage			Spalling, C	Spalling, Cracking or Chipping Corrosion	oping 🔲 Peeling Paint	Paint	· · · · · · · · · · · · · · · · · · ·	
Deposits/Stains			□ oily □	☐ Flow Line ☐	☐ Paint ☐ Other:	sedi	sediment and algae	
Abnormal Vegetation			☐ Excessive	☐ Inhibited				
Poor pool quality			Odors Suds	☐ Colors ☐ Excessive Algae	☐ Floatables ☐ Oil Sheen Algae ☐ Other:	heen r:		
Pipe benthic growth			Brown	Orange	Green Other:			
Section 6: Overall Outfall Characterization	ıtfall Characteri	zation		•				
☐ Unlikely ☐	Potential (presence of two or more indicators)	ence of two	or more indic		Suspect (one or mor	Suspect (one or more indicators with a severity of 3)	rity of 3)	

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

Section 1: Bac	ckgrou	nd Data							
Subwatershed:					Outfall	ID:	34-	0/	
Today's date:	-8	-9-10			Time (1	Military):			
Investigators:	R	nin	7		Form c	ompleted by:		· ·	
Temperature (°F	7):		Rainf	fall (in.): Last 24 hours: 0	) Last 48	hours: 0		-	
Latitutde: 2358	8837.854	Lon	gitude:		GPS Ur	nit:		GPS LMK #:	
Camera: Nikon-					Photo #	łs:	·		
Land Use in Dra	inage Ar	rea (Check all that appl	ly):					<del></del>	
Industrial					□ Оре	en Space			
Ultra-Urban	Resident	ial				itutional			
Suburban Re	sidential				Other:	·			<u> </u>
Commercial									
Section 2: Out	tfall De		rabs, Mii	nnows, vegetation along ca	anal is spars		de of canal, paper a	nd plastic.	
LOCATIO	N	MATERIAL		SH/	APE	and the plant	DIMENSIO	NS (IN.)	SUBMERGED
		□ RCP □	СМР	Circular	<b>⊠</b> Single	<del></del>	Diameter/Dimens	ions:	In Water:
		ØPvc □	HDPE	☐ Eliptical	☐ Double	<b>;</b>	16	<del></del>	☐ Partially
Closed Pipe		Steel		□Box	☐ Triple				Fully
/		Other:		☐ Other:	Other:				With Sediment:  No Partially Fully
		Concrete		1		, ,			
		☐ Earthen		☐ Trapezoid			Depth:		
Open drainag	ge	☐ rip-rap		Parabolic			Top Width:	~	
				☐ Other:			Bottom Width:		
☐ In-Stream		Other:	lleoting						
Flow Present?		Yes	No		n to Section			<u>-</u>	
Flow Description (If present)	1		Moderate	<del></del>	1 to Bection	: J	· · · · · · · · · · · · · · · · · · ·	· ·	
<u> </u>				<u> </u>	· ·				
Section 3: Qua	intitati	ve Characterizat	ion	FIELD DATA FOR FL	OWING (	OUTEAL I G	*		
	ARAME	 Ter	Γ	RESULT	OMILIA C		NIT	EC.	UIPMENT
	T	Volume	<u> </u>	E State Survey and at			iter	***	OIFFILITI
☐Flow #1		Time to fill		,			Sec		
		Flow depth		-		•	In		
		Flow width	<u>-0</u> , "	,		F	t, In		
□Flow #2		Aeasured length	<u>0</u> , "	,		***************************************	t, In		······
	-	Time of travel				··	Sec		
	Temperat	iure					°F		
	pН					pН	Units	Tes	t strip/Probe
	Ammon	ia				p	ppm	r	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	ndicators for Flo	wing Outfa	tfalls Only Yes M-No (IfNo, Skip to Section 5)	o Section 5)			
INDICATOR	CHECK if Present		DESCRI		E A	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:		1 – Faint	2 - Basily detected	3 – Noticeable from a distance
Color		Clear	☐ 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 -Does Not Include Trashii		Sewage	Sewage (Toilet Paper, etc.) Suds  Petroleum (oil sheen)		1 – Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	ence due to low tide						
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	ndicators for Bot s that are not relat	h Flowing ted to flow I	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	(If No, Skip to Section 6)	ion 6)		
INDICATOR	CHECK if Present	resent	DESC	DESCRIPTION		COMMENTS	S
Outfall Damage			Spalling, Cracking or Chipping Corrosion	☐ Peeling Paint			
Deposits/Stains			Oily Flow Line Paint	□ Other:	sediment and algae	ınd algae	
Abnormal Vegetation			Excessive Inhibited			7	
Poor pool quality		,	Odors Colors T	☐ Floatables ☐ Oil Sheen ae ☐ Other:			
Pipe benthic growth			☐ Brown ☐ Orange ☐	☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	utfall Characteris	zation					
( Unlikely	Potential (prese	ance of two	☐ Potential (presence of two or more indicators) ☐ Sus	spect (one or more in	Suspect (one or more indicators with a severity of 3)	of 3) 🔲 Obvious	
Section 7: Any Non-I	Ilicit Discharge C	Concerns (e	Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?	ture repairs)?			

Section 1: Bac	ekgrou	ınd Data							
Subwatershed:			,		Outfall	IID: P	39-01		
Today's date:	<u> </u>	-1-10			Time (	Military):			
Investigators:		- MI	<u>~</u>		Form c	completed by:			
Temperature (°F)	):		Rain	fall (in.): Last 24 hours:	0 Last 48	hours: 0			
Latitutde: 2358	3837.854	, L	ongitude:		GPS U	nit:		GPS LMK #:	:
Camera: Nikon-		·			Photo #	#s:			
٥	inage Ar	rea (Check all that ap	pply):						
Industrial					Opt	en Space			
Ultra-Urban I	Resident	tial			🗌 Inst	titutional			
Suburban Res	sidential	i			Other:	- :	<u> </u>		
Commercial					Known	ı Industries: _			
Notes (e.g, origi		76		innows, vegetation along c	anal is spars	se, trash on si	ide of canal, paper a	and plastic.	
LOCATIO	N	MATERI	AL	SHA	APE	1	DIMENSIO	NS (IN.)	SUBMERGED
		□ RCP □	СМР	Circular	Single		Diameter/Dimens		In Water:
		□ PVC □	HDPE	☐ Eliptical	☐ Double	e e	16"	<u>.                                    </u>	☐ No ☐ Partially
Closed Pipe		□-Steel		Вох	☐ Triple				☐ Fully
		Other: Con	W_	Other:	Other:				With Sediment: ☐ No ☐ Partially ☐ Fully
		Concrete							
		Earthen		☐ Trapezoid			Depth:		
Open drainage	ŗe	rip-rap		☐ Parabolic			Top Width:	-	
		Other:		Other:	·		Bottom Width:		
☐ In-Stream		(applicable when	collecting	samples)		1			
Flow Present?		☐ Yes	<b>√Z1</b> №	If No, Ski	ip to Section	ı 5			
Flow Description (If present)		Trickle [	√ Moderate	e 🔲 Substantial	·				
Section 3: Qua	n <u>titati</u>	ive Characteriz	ation_			· 			
				FIELD DATA FOR FL	OWING	OUTFALLS	-		
P/	ARAME	TER		RESULT			JNIT	EQ	UIPMENT
□Flow #1		Volume					Liter		
		Time to fill					Sec	-	·
		Flow depth					In		
☐Flow #2	 	Flow width	0, "			F	ft, In		
	<del> </del>	Measured length	0' "			F	Ft, In		
		Time of travel					Sec		
Т	l'emperat					<del> </del>	°F		
	pН	·		·		pH	Units	Test	t strip/Probe
	Ammon	ıia		•	İ	r	opm	Т	Cest strip

Are Any Physical Indicators Present in the flow? Yes K	tors Present in the	flow? 🔲 Y	Yes ANO (If No, Skip to Section 5)			
INDICATOR	CHECK if Present		DESCRIPTION	REI	RELATIVE SEVERITY INDEX (1-3)	1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	1 – Faint	2 - Easily detected	3 – Noticeable from a distance
Color		Clear	□ Brown         □ Gray         □ Yellow           □ Orange         □ Red         □ Other:	☐ 1 — Faint colors in sample bottle	☐ 2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbidity			See severity	☐ 1 — Slight cloudiness	2 - Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 — Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	ance due to low tide					
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	idicators for Boi that are not rela	th Flowing : ted to flow p	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)	(9)		
INDICATOR	CHECK if Present	Present	DESCRIPTION		COMMENTS	
Outfall Damage			☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion			
Deposits/Stains			Oily Flow Line Paint Other:	sediment and algae	nd algae	
Abnormal Vegetation			☐ Excessive ☐ Inhibited			
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:			
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	tfall Characteri	zation				
Unlikely	Potential (prese	since of two	Potential (presence of two or more indicators) Suspect (one or more indicators with a severity of 3)	ators with a severity o	f3) 🗌 Obvious	
Section 7: Any Non-II	licit Discharge (	Concerns (e.	Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?			

Section 1: Bac	kgrou	nd Data						ł:	
Subwatershed:					Outfall ID:		P41-	٥/	· · · · · · · · · · · · · · · · · · ·
Today's date:	8	-9-10			Time (Milita	гу):	· · · · · · · · · · · · · · · · · · ·	,	
Investigators:			DIN	,	Form comple	ted by:			
Temperature (°F	):		Rainf	all (in.): Last 24 hours: 0	Last 48 hours	: 0			
Latitutde: 2358	837.854	Lon	gitude:		GPS Unit:			GPS LMK #:	<del>,</del>
Camera: Nikon-					Photo #s:				
Land Use in Dra	inage Ar	ea (Check all that app	ly):						
🔀 Industrial	-				Open Spa	.ce			
Ultra-Urban l	Resident	ial			Institution	ıal			
☐ Suburban Res	sidential				Other:	•	<del></del>		
Commercial				ı	Known Indus	tries: _			<del></del>
Section 2: Out	fall De	escription		nnows, vegetation along ca		sh on si			
LOCATIO	Ň	MATERIAI		SHA			DIMENSI	ONS (IN.)	SUBMERGED
		□ RCP □	CMP	Circular	Single Single		Diameter/Dimer	nsions:	In Water:  ☐ No
		□ PVC □	HDPE	☐ Eliptical	☐ Double		29	·	Partially Fully
Closed Pipe		Steel		□Box	Triple				With Sediment:
		Other:	<u>I</u> C	Other:	Other:				No Partially Fully
	····	☐ Concrete		☐ Trapezoid			Donth	197	
<b>-</b>		Earthen					Depth:		
Open drainag	;e	☐ rip-rap		Parabolic			Top Width:		
		☐ Other:		Other:		•	Bottom Width:		
☐ In-Stream		(applicable when co	llecting	samples)		·	<u> </u>	: ,	<u>िया सम्मानस्य सम्मानस्य स्थानस्य सम्मानस्य स्थानस्य स्थानस्य स्थानस्य स्थानस्य स्थानस्य स्थानस्य स्थानस्य स्था</u>
Flow Present?		☐ Yes	0/4 <b>X</b>	If No, Skip	to Section 5				
Flow Description (If present)		Trickle	Moderate	Substantial					
Section 3: Qua	ntitati	ve Characterizat	ion	•		ζ:			
			•	FIELD DATA FOR FL	OWING OUTF	ALLS			
P	ARAME	TER	3	RESULT	14.12.1		NIT		UIPMENT
□Flow#1		Volume				Ī	Liter		
		Time to fill				1	Sec		
	,	Flow depth		. ,			In		
☐Flow #2		Flow width	<u>0</u> ' "			F	t, In		
	M	leasured length	<u>o</u> ' "			F	t, In		
	•	Time of travel	,				Sec		
1	Temperat	ure					°F		
	pН	<del></del>				pН	Units	Tes	t strip/Probe
•	Ammon	ia		-		ŗ	pm	•	l'est strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	ndicators for Flowi tors Present in the flow	ing Outfalls O w? □ Yes	°Z.	(If No, Skip to Section 5)	Section 5)			,	
INDICATOR	CHECK if Present		DESCRIPTION	NOI			RELAT	RELATIVE SEVERITY INDEX (1-3)	1-3)
Odor		☐ Sewage ☐ ☐ Sulfide ☐	☐ Rancid/sour ☐ Petro	☐ Petroleum/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	ity		☐ I – Slight cloudiness		2-Cloudy	3 - Opaque
Floatables -Does Not Include Trash!		<ul><li>Sewage (Toilet Paper, etc.)</li><li>□ Petroleum (oil sheen)</li></ul>	Paper, etc.) Suds sheen) 🗌 Other			1 – Few/slight, origin not obvious	origin	2 - Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	ence 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?	idicators for Both s that are not related	Flowing and N to flow preser	Von-Flowing Outfalls		(Jf No, Skip to Section 6)	· Section 6)			
INDICATOR	CHECK if Present	sent	<u>.</u>	DESCRIPTION	NOTION			COMMENTS	
Outfall Dámage			Spalling, Cracking or Chipping Corrosion	. Chipping	Peeling Paint	aint			
Deposits/Stains		Ĭ	Oily Flow Line	☐ Paint	Other:		sediment and algae	algae	
Abnormal Vegetation			☐ Excessive ☐ Inhibited	pa					
Poor pool quality			☐ Odors ☐ Colors ☐ Suds ☐ Excess	ive Alg	☐ Floatables ☐ Oil Sheen ae ☐ Other:	neen			
Pipe benthic growth			☐ Brown ☐ Orange	e	reen 🔲 Other:				
Section 6: Overall Outfall Characterization	itfall Characteriza	tion							
TUnlikely	Potential (presence of two or more indicators)	ce of two or mo	re indicators)	odsns 🗌	ect (one or mor	Suspect (one or more indicators with a severity of 3)	severity of	3) 🗌 Obvious	

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

Section 1: Ba	ckgrou	nd Data		•					
Subwatershed:					Outfal	1 ID: P	11-02	<del></del>	
Today's date:	\$-	-1-1D			Time (	(Military):	·		•
Investigators:	(0	_ M,	~		Form	completed by:			
Temperature (°I	F):		Raint	fall (in.): Last 24 hours:	0 Last 48	hours: 0			
Latitutde: 235	8837.854	Lo	ngitude:		GPS U	Jnit:	•	GPS LMK #	:
Camera: Nikon-	•				Photo	#s:			
Land Use in Dra	ainage Ai	rea (Check all that ap	ply):						
□ Industrial				•	□Ор	en Space			
Ultra-Urban	Resident	ial			☐ Ins	titutional			
Suburban Re	esidential				Other:		<del></del>	<del></del>	·
☐ Commercial					Knowi	ı Industries:			
Notes (e.g, original origina	····		crabs, Mi	nnows, vegetation along c	anal is spai	rse, trash on si	de of canal, paper a	and plastic.	
LOCATIO	N	MATERIA	L.		APE	*	DIMENSIO	NS (IN.)	SUBMERGED
		□ RCP □	CMP	Circular	Single		Diameter/Dimens	ions:	In Water:
		□ PVC □	HDPE	■ Eliptical	☐ Doubl	e	12		No Partially
Closed Pipe		Steel		☐ Box	☐ Triple				Fully
		Other:	·····	☐ Other:	Other:				With Sediment:
									☐ Partially ☐ Fully
		☐ Concrete		☐ Trapezoid			Donth	· · · · · · · · · · · · · · · · · · ·	
П о 44		☐ Earthen					Depth:		
Open drainag	ge	rip-rap		Parabolic			Top Width:	_	
		☐ Other:		Other:		i	Bottom Width:		
☐ In-Stream		(applicable when	ollecting	samples)					
Flow Present?		☐ Yes	∕No	If No, Skij	p to Section	i 5			
Flow Description (If present)	1	Trickle	Moderate	☐ Substantial					
Section 3: Qua	ntitati	ye Characteriza	tion						
				FIELD DATA FOR FL	OWING	OUTFALLS			
Р	ARAME	TER		RESULT		U	NIT	EQ	UIPMENT
□Flow#1		Volume	<u>-</u>			L	iter		
		Time to fill				. S	lec ·		
	<u></u> _	Flow depth	ļ			7144	In	•	
Flow #2		Flow width	0, "				, In	11 = 10 = 0.10	
	<del></del>	leasured length	0, "				, In	14.74	
	Temperat	Time of travel		<del></del>			ec		
	pH		<del> </del>				°F Units	Tea	t strip/Probe
	Ammon	ia							
	Ammon	ια .	ł		1	Pl	om .		lest strip

	(1-3)	3 – Noticeable from a distance	3 ~ Clearly visible in outfall flow	3 – Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)		Ž	S							,	
	RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	2 – Clearly visible in sample bottle	2 - Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		ınd algae					of 3)	
	REI	1 – Faint	☐ 1 – Faint colors in sample bottle	1 – Slight cloudiness	☐ 1 — Few/slight; origin not obvious		on 6)			sediment and algae					licators with a severity o	
Only  Skip to Section 5)	DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:		d Non-Flowing Outfalls sent?	DESCRIPTION	Spalling, Cracking or Chipping Paint Corrosion	Oily Flow Line Paint Other:	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	☐ Brown ☐ Orange ☐ Green ☐ Other:		more indicators) Suspect (one or more indicators with a severity of 3)	
for Flowing Outfalls	:K if ent	Sewage 🔲 Sulfide	Clear	-		low tide	for Both Flowing an not related to flow pre	CHECK if Present			]			ıracterization	Potential (presence of two or more indicators)	
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	INDICATOR CHECK if Present	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	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?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	Unlikely 🔲 Potentia	

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

Section 1: Bac	kgrou	nd Data								
Subwatershed:					Outfal	IID: PC	17-01	/		
Today's date:	_8	-9-10			Time (	Military):				
Investigators:	- (0	L m	N		Form o	completed by:				
Temperature (°F	):		Rainf	all (in.): Last 24 hours: 0	Last 48	hours: 0				
Latitutde: 2358	837.854		Longitude:		GPS U	Jnit:	<del></del>	GPS LMK #:		
Camera: Nikon-				3	Photo	#s:		***		
Land Use in Dra	inage Are	ea (Check all that	apply):							
[A] Industrial					Op	en Space				
🔲 Ultra-Urban I	Residenti	ial			☐ Ins	titutional				
Suburban Res	sidential				Other:	•			<del></del> .	
🗹 Commercial			-		Knowr	Industries: _		·	·	
Section 2: Out	fall De	· 	ge crabs, Mii	nnows, vegetation along ca	anal is spai	rse, trash on si				
LOCATIO	N	MATER		SHA			DIMENSI	ONS (IN.)	SUBMERGED	
·		RCP	□ СМР	Circular	Single	:	Diameter/Dime	nsions:		
		□ PVC	HDPE	☐ Eliptical	☐ Doubi	e	29	<u></u>	Partially	
Closed Pipe		Z Steel		□Box	Triple					
		Other:		☐ Other:	Other:				□ No	
,				·						
		☐ Concrete		☐ Trapezoid			Depth:			
Open drainag		☐ Earthen		Parabolic						
р Орен агашяв	e	□ гір-гар					Top Width:			
		Other:		Other:			Bottom Width:			
☐ In-Stream		(applicable whe	n collecting	samples)	7		· · · · · · · · · · · · · · · · · · ·		Paramananan Paramanan Paraman	
Flow Present?		<b>K</b> Ĵ Yes	□No	If No, Skip	to Section	n 5	****			
Flow Description (If present)	,	Trickle	☐ Moderate	Substantial	601	nNb	FRON	עט י	DER PIRE	
Section 3: Qua	ntitativ	ve Characteri	ization						•	
•				FIELD DATA FOR FL	OWING	OUTFALLS				
P/	ARAME	TER		RESULT		U	NIT	EQ	UIPMENT	
□Flow#1		Volume				I	Liter			
		Time to fill					Sec		· · · · · · · · · · · · · · · · · · ·	
		Flow depth					In	~	·	
□Flow #2		Flow width	0' "				ît, În			
		leasured length	0' "				et, In			
	Temperati		+-		i		Sec °F			
	pH						Units	Tes	t strip/Probe	
	Ammoni	ia				pri	nm		Cost strip	

		from a	sible in		in clear is oil or floating erials)											
	(F)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	3 - Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)								:			
	RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	. 2 – Clearly visible in sample bottle	□ 2 - Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		nd algae					f3) · 🗌 Obvious	
	REL		ors in ttle	oudiness	ht; origin			-		sediment and algae					a severity o	
		☐ 1 ~ Faint	1 - Faint colors in sample bottle	☐ 1 – Slight cloudiness	1 – Few/slight; origin not obvious		ion 6)							,	dicators with	
(If No, Skip to Section 5)		1/gas	☐ Yellow ☐Other:				(If No, Skip to Section 6)	DESCRIPTION	ping 🔲 Peeling Paint	aint Other:		☐ Floatables ☐ Oil Sheen Igae ☐ Other:	Green Other:		Suspect (one or more indicators with a severity of 3)	
(If No, 5	DESCRI	DESCRIPTION  Rancid/sour   Petroleum/gas Other:  Brown   Gray   Corange   See severity  Paper, etc.)   Suds  neen)   Other:  Descripting Outfalls  t?   Yes   No  Descripting Cracking or Chipping Corrosion						racking or Chip	☐ Flow Line ☐ Paint	☐ Inhibited	☐ Colors ☐ Excessive Algae	Orange		ors)		
lls Only		☐ Rancid/sour	☐ Brown ☐ Orange		Sewage (Toilet Paper, etc.)		ind Non-Flowi resent?		Spalling, Cl	□ Oily □ Flo	☐ Excessive	Odors Suds	Brown		or more indicate	
owing Outfa flow? □ Ye		Sewage Sulfide	Clear		Sewage (Toilet Paper		th Flowing a	Present				,		ization	ence of two o	
dicators for Floors Floors Present in the	cors Present in the flow?  CHECK if  Present					nce due to low tide	licators for Bo that are not rela	CHECK if Present						fall Characteri	☐ Potential (presence of two or more indicators)	
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?  Ves	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!	Notes: Potential tidai 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?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	∑ Unlikely □	

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

Section 1: Ba	ckgrou	nd Data							
Subwatershed:					Outfall ID	: ' [	42-0	2	
Today's date:		8-9-	10		Time (Mil	itary):		, ,	
Investigators:		Rm,	N		Form com	pleted by:			
Temperature (°			Rainf	all (in.): Last 24 hours: (	Last 48 ho	urs: 0			
Latitutde: 235	8837.854		Longitude:		GPS Unit:		·····	GPS LMK #	
Camera: Nikon				·	Photo #s:	·			
	ainage Ar	ea (Check all that	apply):						
Industrial					Open S	Space	•		
Ultra-Urban	Residenti	ial			☐ Institut	tional			
Suburban R	esidential				Other:				
Commercial	l				Known Inc	dustries: _			
Notes (e.g, ori	gin of out	fall, if known): la	rge crabs, Mii	nnows, vegetation along ca	anal is sparse,	trash on si	de of canal, pape	r and plastic.	
Section 2: Ou LOCATIO		escription MATER	TA1	SHZ	<b>\PE</b>		DIMENSI	ONS (IN.)	CUBMENCED
LOCATIO	<b>7</b> 11	RCP	☐ CMP		Single	<del></del>			SUBMERGED
			,	-			Diameter/Dime	nsions:	In Water:
		□ PVC	HDPE	☐ Eliptical	☐ Double		30	<del></del>	Partially Fully
Closed Pipe		Steel		Box	☐ Triple				With Sediment:
		Other: Co	<u>~</u> _	Other:	Other:				☐ No ☐ Partially ☐ Fully
		☐ Concrete		☐ Trapezoid	•		Donth		
ГП 0 di		Earthen			•		Depth:		
Open draina	ge	☐ rip-rap		Parabolic			Top Width:		
		Other:		Other:			Bottom Width:		
🔲 In-Stream		(applicable whe	n collecting :	samples)	2 1 1 1 2 2 21 1 1 1 1	42 V		:	ार सम्बद्धाः स्थानिक विद्यालया ।
Flow Present?	·	☐ Yes	No.	If No, Skip	to Section 5				
Flow Description (If present)	n	☐ Trickle	☐ Moderate	☐ Substantial					
Section 3: Qu	antitati	ve Characteri	zation	•					
				FIELD DATA FOR FL	OWING OU	TFALLS			
F	PARAME	TER		RESULT		U	NIT	EC	QUIPMENT
☐Flow#1		Volume				I	iter		- <del> </del>
	,	Time to fill				;	Sec		
		Flow depth					In		
☐Flow #2		Flow width	<u>o</u> ' "			F	t, Įn		
	M	leasured length	0, "	<del>-</del>		F	t, In		
	1	Γime of travel					Sec		
	Temperat	ure	,				°F		
	pН					pН	Units	Tes	st strip/Probe

ppm

Test strip

Ammonia

		☐ 3 – Noticeable from a distance	3 – Clearly visible in outfall flow	an	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)	,					1				
•	(1-3)	3 – Noticed	3 – Clearly vis	3 - Opaque	(e.g., c			TS							
	RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	2 – Clearly visible in sample bottle	2-Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		nd algae			į.		f3) 🗌 Obvious
	REL	- v	olors in ottle	loudiness	ght; origin		·			sediment and algae			]		a severity or
	lo.	☐ 1 — Faint	☐ 1—Faint colors in sample bottle	☐ 1 – Slight cloudiness	☐ 1 – Few/slight; origin not obvious		ion 6)							:	dicators with
Section 5)			☐ Yellow ☐Other:				(If No, Skip to Section 6)	DESCRIPTION	Peeling Paint	Other:		Floatables Oil Sheen ac Other:	Green Other:		Suspect (one or more indicators with a severity of 3)
(If No, Skip to Section 5)	DESCRIPTION	Petroleum/gas	☐ Gray ☐	ee severity	☐ Suds ☐ Other:		g Outfalls es UNo	DESCR	Spalling, Cracking or Chipping Corrosion	Line   Paint	☐ Inhibited	☐ Colors ☐ F	☐ Orange ☐ (		
ls Only	DES	☐ Rancid/sour [☐ Other:	Brown Orange	Se	, etc.)		nd Non-Flowing esent?		Spalling, Cracl	☐ Oily ☐ Flow Line	☐ Excessive ☐	Odors Suds	☐ Brown		r more indicators)
owing Outfalls		Sewage Sulfide	☐ Clear ☐ Green		Sewage (Toilet Paper		th Flowing a	Present						ization	ence of two o
dicators for Flo ars Present in the	CHECK if Present					ice due to low tide	licators for Bo that are not rela	CHECK if Present						fall Character	Potential (presence of two or more indicator
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?  \( \text{T} \text{Yes} \)	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indicators for Both Flowing and Non-Flowin Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	√ Unlikely □

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

Section 1: Background Data

Subwatershed:					Outfal	ع (1 ID:	17-03	,	
Today's date:		8-9-	10		Time (	(Military):	_		
Investigators:	1	R Mi	n.		Form	completed by:		,	
Temperature (°F	<sup>7</sup> ):		l l	all (in.): Last 24 hours:	0 Last 48	3 hours: 0			
Latitutde: 235	8837.854	L	ongitude:		GPS U	Jnit:		GPS LMK #	:
Camera: Nikon-					Photo	#s:			
Land Use in Dra	inage Ar	ea (Check all that a	ipply):						
Industrial					□Ор	en Space			
Ultra-Urban	Resident	ial			☐ Ins	titutional			
🗌 Suburban Re	sidential				Other:	•	<del></del>	<del></del>	<del></del>
Commercial		·			Knowi	n Industries: _		· ·	
		.,	ge crabs, Mir	nnows, vegetation along o	canal is spa	rse, trash on si	de of canal, paper a	and plastic.	
Section 2: Out		escription MATERI	[AL	SH	APE		DIMENSIO	NS (TN )	SUBMERGED
. 25 671125			СМР	⊠-Circular	✓ Single		Diameter/Dimens		In Water:
			HDPE	☐ Eliptical	Doubl		12"	oions.	No ☐ Partially
Closed Pipe	•	☐ Steel		Box	☐ Triple			<del></del>	Fully
Closed Tipe		Stother: LE	01/-	,	-		<u> </u>		With Sediment:
		Eg.Other:	<del>-</del> _	Other:	Other:				☐ No ☐ Partially ☐ Fully
Open drainag	ge	Concrete  Earthen  rip-rap  Other:		☐ Trapezoid ☐ Parabolic ☐ Other:			Depth: Top Width: Bottom Width:		
☐ In-Stream		(applicable when	collecting	samples)			: .	1 1	
Flow Present?		☐ Yes	X No		p to Section	n 5			
Flow Description (If present)		☐ Trickle [		☐ Substantial		<del></del>			
Section 3: Oua	Intitati	ve Characteriz	ation						
				FIELD DATA FOR FI	LOWING	OUTFALLS			
P	ARAME	TER		RESULT		U	NIT	EQ	UIPMENT
☐Flow#1		Volume				I	iter		
		Time to fill					Sec		
		Flow depth					In		
☐Flow #2		Flow width	0' "			F	t, In		
	<del></del>	leasured length	0' "			F	t, In		
,		Γime of travel				5	Sec	·	
	remperate	ure		4.00			°F		
	pН					pH	Units	Tes	t strip/Probe
	Ammoni	ia	Ī		- 1	n	nm		Toot strip

alls Only, Yes 🖽 No (If No, Skip to Section 5)	DESCRIPTION RELATIVE SEVERITY INDEX (1-3)	Rancid/sour Petroleum/gas	□ Brown       □ Gray       □ Yellow       □ 1 ~ Faint colors in sample bottle       □ 2 − Clearly visible in sample in outfall flow	See severity $\Box 1-Slight$ cloudiness $\Box 2-Cloudy$ $\Box 3-Opaque$	□ Sewage (Toilet Paper, etc.)       □ Suds       □ 1 – Few/slight; origin       □ 2 – Some; indications of origin clear of origin (e.g., obvious oil sheen)       □ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sheen)		and Non-Flowing Outfalls present?	DESCRIPTION	Spalling, Cracking or Chipping Paint Corrosion	□ Oily □ Flow Line □ Paint □ Other.	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	☐ Brown ☐ Orange ☐ Green ☐ Other:
	8	/sour	Gray	See severity				DESCRIPTION		☐ Flow Line ☐ Paint		☐ Colors ☐ Floatables ☐ Excessive Algae	Orange Green
Section 4: Physical Indicators for Flowing Outfalls Only, Are Any Physical Indicators Present in the flow?	CHECK if Present	Sewage Sulfide	☐ Clear ☐ Green		Sewage (Toilet Paper	ce 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?	CHECK if Present					
Section 4: Physical Inc Are Any Physical Indicato	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Ind Are physical indicators	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth

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

☐ Potential (presence of two or more indicators)

Section 6: Overall Outfall Characterization

Ti Unlikely

□ Obvious

 $\square$  Suspect (one or more indicators with a severity of 3)

Section 1: Ba	ckgrou	ınd Data							:
Subwatershed:					Outfal	l ID:	51 A-	0(	· ·
Today's date:	_14	9-5-10			Time	(Military):	<del></del>		
Investigators:		- Min			Form	completed by:		***	
Temperature (°F	F):		Raint	fall (in.): Last 24 hours:	0 Last 48	3 hours: 0			
Latitutde: 235	8837.854	Lo	ngitude:		GPS U	Jnit:		GPS LMK #	:
Camera: Nikon-					Photo	#s:			<del>.</del>
Land Use in Dra	ainage A	rea (Check all that app	oly):					<u> </u>	•
Industrial		•		•	Op	en Space			
Ultra-Urban	Resident	tial			☐ Ins	titutional			
🗌 Suburban Re	sidential			·	Other:				
☐ Commercial					Know	n Industries:			<u>-</u>
	1		•	nnows, vegetation along c	anal is spa	rse, trash on si	de of canal, paper	and plastic.	
}	bl.	ZON 1	/ IN	<del>E</del> 5					
Section 2: Out	tfall De	escription							
LOCATIO		MATERIA	L .	SH	APE		DIMENSI	ONS (IN.)	SUBMERGED
	<del></del>	<b>∏</b> RCP □	СМР	Circular	Single	;	Diameter/Dime		In Water:
		1'-	HDPE	Eliptical	☐ Doubl		36"		□ No ☑ Partially
Closed Pipe		Steel		Вох	_ ☐ Triple			<del></del>	Fully
7		☐ Other:			_		,		With Sediment:
		, Other,	····	Other:	Other:				⊠No □ Partially
		☐ Concrete				<del></del>			Fully
,				☐ Trapezoid			Depth:		
Open drainag	ge	Earthen		☐ Parabolic		·	Top Width:	•	
		☐ rip-rap		Other:			Bottom Width:		
		Other:					Dottom width.		
☐ In-Stream		(applicable when c	ollecting :	samples)		7 37			
Flow Present?	·	☐ Yes	ÞŃο	If No, Skij	o to Section	ı 5			
Flow Description (If present)	·	☐ Trickle ☐	Moderate	Substantial					
Section 3: Qua	ıntitati	ve Characteriza	tion						. Age
			•	FIELD DATA FOR FL	OWING	OUTFALLS			
P.	ARAME	TER		RESULT		Ü	NIT	EQ	UIPMENT
□Flow #1		Volume				L	iter		
		Time to fill		·		S	lec .		
		Flow depth	<u> </u>				In		
□Flow #2		Flow width	0' "			Ft	, In		
	M	feasured length	0, "			Ft	, In		
		Time of travel .	ļ	7811 - 24		S	ec		
Т	remperat .	ure		· · · · · · · · · · · · · · · · · · ·			°F		
	pН					pН	Units	Tes	t strip/Probe
	Ammon	ia				pį	om	ר	Test strip

ls Only s NTNo (IfNo, Skip to Section 5)	DESCRU	☐ Rancid/sour ☐ Petroleum/gas ☐ 1 — Faint ☐ 2 — Easily detected distance distance	□ Brown       □ Gray       □ Yellow       □ 1 - Faint colors in sample bottle       □ 2 - Clearly visible in sample bottle       □ 3 - Clearly visible in outfall flow	See severity	etc.)		nd Non-Flowing Outfalls (If No, Skip to Section 6)	DESCRIPTION	Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: sediment and algae	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	☐ Brown ☐ Orange ☐ Green ☐ Other:		r more indicators) Suspect (one or more indicators with a severity of 3)
Š.		/sour ☐ Petroleum/gas	Gray Cyellow Cred Cother:		etc.) 🗆 Suds 🗀 Other:	- Annual Control of the Control of t	Outfalls s (A) No	DESCRIPTION		☐ Flow Line ☐ Paint		☐ Colors ☐ Floatables ☐ Excessive Algae	☐ Orange ☐ Green		
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	CHECK if Present	☐ Sewage ☐ ☐ Suffide ☐ ☐	Clear D		Sewage (Toilet Paper, etc.)	ence due to low tide	Section 5: Physical Indicators for Both Flowing and Non-Flowing Are physical indicators that are not related to flow present?	CHECK if Present				PO C		Section 6: Overall Outfall Characterization	Potential (presence of two or more indicators
Section 4: Physical In Are Any Physical Indica	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include -Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical In Are physical indicator	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Or	√ Unlikely

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

Section 1: Bac	ekgrou	nd Data							
Subwatershed:			•		Outfal	l ID:	P514	7-02	
Today's date:		0-57	0		Time (	(Military):			
Investigators:	L	- MIN		,	Form	completed by:			
Temperature (°F	·):		Rainf	all (in.): Last 24 hours: 0	Last 48	hours: 0		<u> </u>	n S
Latitutde: 2358	8837.854		Longitude:		GPS U	Jnit:		GPS LMK#	
Camera: Nikon-					Photo	#s:		75	
Land Use in Dra	inage Ar	ea (Check all tha	t apply):						
<b>7</b> Industrial					□Ор	en Space		•	
Ultra-Urban	Resident	ial			☐ Ins	titutional			
Suburban Re	sidential				Other:	•			
☐ Commercial					Know	n Industries:	-		
ĺ	í	fall, if known): la	nge crabs, Mi	nnows, vegetation along ca	nnal is spa	rse, trash on si	de of canal, paper	and plastic.	
Section 2: Out	tfall De	escription			·				
LOCATIO	N.	MATE	RIAL	SHA	\PE		DIMENSI	ONS (IN.)	SUBMERGED
		<b>⊠</b> RCP	□СМР	∑ Circular	Single	\$	Diameter/Dimer		In Water:
	es:	□ PVC	HDPE	☐ Eliptical	Doubl	e	145		No Partially Fully
Closed Pipe		□-Steel		□Box	☐ Triple				
,		Other:		☐ Other:	Other:		,	· ·	With Sediment: No Partially Fully
		☐ Concrete	·						
		☐ Earthen		Trapezoid			Depth:		
Open drainag	ge	rip-rap		Parabolic			Top Width:		
		Other:		☐ Other:		,	Bottom Width: _		
☐ In-Stream		(applicable wh	en collecting :	samples)		•		:	
Flow Present?	<del></del>	Yes	☐ No	If No, Skip	to Section	n 5	···		······································
Flow Description (If present)		Z Trickle	☐ Moderate	Substantial				н. т	
Section 3: Qua	ntitati	ve Charactei	ization						
	.i			FIELD DATA FOR FL	OWING	OUTFALLS			1.00
/ P	ARAME	TER		RESULT		U	NIT	EÇ	UIPMENT
□Elow#1		Volume	ì			I	iter		
∏Flow#I		Time to fill					Sec		
		Flow depth					In		
□Flow #2		Flow width	<u>0</u> ' "			F	t, In		
JI IUW #2	N	leasured length	0, "			F	t, In		
		Time of travel					Sec .		
	Temperat	ure					°F		
	pH					pН	Units	Tes	t strip/Probe
	Ammon	ia			1	,	nm		Test strin

utfalls Only (If No. Skip to Section 5)	DESCRIPTION RELATIVE SEVERITY INDEX (1-3)	age	r Brown Gray Yellow 1—Faint colors in 2—Clearly visible in outfall flow sample bottle sample bottle outfall flow	See severity $\square$ 1-Slight cloudiness $\square$ 2-Cloudy $\square$ 3-Opaque	□ Sewage (Toilet Paper, etc.)       □ Suds       □ 1 - Few/slight; origin       □ 1 - Few/slight; origin       ○ forigin (e.g., obvious oil not obvious       □ 1 - Few/slight; origin       ○ forigin (e.g., obvious oil sheen, suds, or Idoating sheen, suds, or Idoating sheen, suds, or Idoating sheen)		Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls  Are physical indicators that are not related to flow present?	DESCRIPTION	Spalling, Cracking or Chipping   Peeling Paint   Corrosion	□ Oily □ Flow Line □ Paint □ Other.	☐ Excessive ☐ Inhibited	□ Odors □ Colors □ Floatables □ Oil Sheen 👙 📑 🕒 Suds □ Excessive Algae	□ Brown □ Orange □ Green □ Other:	· Service of the serv	
, s	DESCRIPTION		Gray [	See severity	, etc.)			DESCRIPTION		Line Paint	┌┌	Colors   Floatables   Excessive Algae	☐ Orange ☐ Green		
Oui	CHECK if Present	Sewage Suffide	Clear		Sewage (Toil	due to low tide	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	CHECK if Present						ll Characterization	
Section 4: Physical Indicators for Flowing Are Any Physical Indicators Present in the flow?	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trashi!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indic Are physical indicators tha	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	

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

Section 1: Bac	ekgrou	nd Data	•					~	
Subwatershed:					Outfal	1 ID: 🌈	5/1-0	3	
Today's date:	18	75-10	)		Time (	(Military):			
Investigators:		$-m_1$	w/		Form	completed by:		-	
Temperature (°F	):		Rainf	all (in.): Last 24 hours:	0 Last 48	hours: 0			
Latitutde: 2358	8837.854		Longitude:		GPS U	Jnit:		GPS LMK #	:
Camera': Nikon-					Photo	#s:			
Land Use in Dra	inage Ar	ea (Check all that	apply):						
☑ Industrial					□ Op	en Space			
Ultra-Urban	Resident	ial		•	_	titutional			
🗌 Suburban Re	sidential				Other:	•	· · · · · · · · · · · · · · · · · · ·		
☐ Commercial									
,	ORI	ZON	ge crabs, Mi	nnows, vegetation along c	canal is spai	rse, trash on si	de of canal, paper	and plastic.	
LOCATIO		MATER	IAL.	SH	APE		DIMENSIO	ONS (IN.)	SUBMERGED
		<b>⊠</b> RCP	□ СМР	[X Circular	Single	;	Diameter/Dimen	sions:	In Water:
		□ PVC	HDPE	☐ Eliptical	Doubl	е	48"		No Partially
Closed Pipe		☐ Steel		☐ Box	Triple				☐ Fully
,		Other:	<del></del>	☐ Other:	Other:				With Sediment:
· .				/					☐ Partially ☐ Fully
		Concrete		Trapezoid			Douth		
По <b>з</b>		☐ Earthen		i			Depth:		
Open drainag	ge .	rip-rap		Parabolic			Top Width:		
		☐ Other:		Other:			Bottom Width: _		
☐ In-Stream	-	(applicable when	collecting	samples)	. *			~	
Flow Present?		☐ Yes	MNο	If No, Ski	p to Section	n 5		<del>-</del>	
Flow Description (If present)		Trickle	☐ Moderate	Substantial					<del>ረ</del> ኢን
Section 3: Qua	ntitati	ve Characteri	zation	·	·				;
·			·	FIELD DATA FOR F	LOWING	OUTFALLS			· · · · · · · · · · · · · · · · · · ·
P	ARAME	TER	: :	RESULT			NIT	EC	UIPMENT
☐Flow #1		Volume	_			I I	Liter		
<del></del>		Time to fill					Sec		· · · · · · · · · · · · · · · · · · ·
·		Flow depth					In .		
Flow #2		Flow width	0' "				t, In		
e e		leasured length	<u>0</u> ' "				t, In		
	<u> </u>	Time of travel	_				Sec	<del> </del>	
-t	Femperat pH	ui C					°F Units	T	et etrin/Probe
	Ammon	·					onns		st strip/Probe

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?   CHECK if Present  CHECK if Present	ndicators for Flov tors Present in the fl CHECK if Present	wing Outfa	Ils Only	) ESCR	(If No, Skip to Section 5)	n 5)		RELA	RELATIVE SEVERITY INDEX (1-3)	(1-3)	
Odor		Sewage Sulfide	☐ Rancid/sour	/sour   Petroleum/gas	n/gas	·	☐ 1 — Faint	_	2 - Easily detected	3 – Noticeable from a distance	
Color		Clear	☐ Brown ☐ Orange	Gray	☐ Yellow ☐Other:		1 - Faint colors in sample bottle	rs in	2 - Clearly visible in sample bottle	3 – Clearly visible in outfall flow	1
Turbidity				See severity			1 - Slight cloudiness	rdiness	2-Cloudy	3 – Opaque	_
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper	☐ Sewage (Toilet Paper, etc.) ☐ Petroleum (oil sheen)	c.) 🗌 Suds			1 – Few/slight; origin not obvious	; origin	2 - Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)	T
Notes: Potential tidal influence due to low tide	ence due to low tide										1
Section 5: Physical Indicators for Both Flowing and Non-Flowing Are physical indicators that are not related to flow present?	idicators for Bot s that are not relat	th Flowing a ted to flow p	nd Non-Fic resent?	owing Outfalls ☐ Yes [] No		(If No, Skip to Section 6)	ion 6)	٠.			7
INDICATOR	CHECK if Present	resent	· · ·	 	DESCRIPTION	NC			COMMENTS		
Outfall Damage			Spalling, C	Spalling, Cracking or Chipping Corrosion		Pecling Paint					
Deposits/Stains				☐ Flow Line ☐ 1	☐ Paint [	☐ Other:		sediment and algae	l algae		
Abnormal Vegetation			☐ Excessive	☐ Inhibited							
Poor pool quality		,	Odors Suds	Colors	☐ Floatables	ss Oil Sheen		:			
Pipe benthic growth			☐ Brown	Orange	Green	Other:			į		
Section 6: Overall Outfall Characterization	ıtfall Characteriz	zation	:								
The Unlikely	Dotential (presence of two or more indicators	nce of two o	r more indic		Suspect (c	me or more in	Suspect (one or more indicators with a severity of 3)	severity of	3) 🗌 Obvious		

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

Section 1; Bac	ekground Data						
Subwatershed:				Outfall ID:	P514-8	04	
Today's date:	10-5-10		-	Time (Military):			
Investigators:	R MI	<b>V</b>		Form completed b	y:		
Temperature (°F	·):	Rainf	fall (in.): Last 24 hours: (	Last 48 hours: 0		¥1***	
Latitutde: 2358	3837.854	Longitude:		GPS Unit:		GPS LMK #	:
Camera: Nikon-				Photo #s:			
Land Use in Dra	inage Area (Check all tha	t apply):	•				
[Industrial				Open Space			
☐ Ultra-Urban l	Residential			Institutional			
Suburban Res	sidential			Other:		***	
Commercial				Known Industries:			
Hor	120N	arge crabs, Mi	nnows, vegetation along ca	anal is sparse, trash on	side of canal, paper	and plastic.	
LOCATIO	tfall Description  MATE	RIAL	SHA	\PE	DIMENSIC	ONS (IN.)	SUBMERGED
	RCP	□ СМР		Single	Diameter/Dimen		In Water:
	/ □ PVC	HDPE	, ☐ ElipticaI	Double	16'		∑ No ☐ Partially
∑.Closed Pipe	☐ Steel		□Box	☐ Triple			Fully
-	Other:		☐ Other:	Other:			With Sediment:
		<del></del> -		<u> </u>			Partially Fully
	☐ Concrete	<u> </u>				·	
	☐ Earthen		☐ Trapezoid		Depth:		
Open drainag	gerip-rap		☐ Parabolic		Top Width:	_	
	Other:		☐ Other:		Bottom Width: _		
☐ In-Stream		en collecting	samples)	6 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	;		
Flow Present?	Yes Yes	□ No		to Section 5	· · · · ·		
Flow Description (If present)		☐ Moderate					51.0h.
Section 3: Qua	ntitative Character	ization		,		***	
200000000000000000000000000000000000000		12.111011	FIELD DATA FOR FL	OWING OUTFALLS	3		
P/	ARAMETER			<del></del>	UNIT	EC	UIPMENT
□Flow#1	Volume				Liter		
Cl. 10 M lt.	Time to fill				Sec		
;	Flow depth				In	•	
∏Flow #2	Flow width	<u>0</u> ' "			Ft, In		
	Measured length	0' "			Ft, In		
<u>-</u>	Time of travel		· · · · · · · · · · · · · · · · · · ·		Sec		
T	Temperature				°F		
	рН			р	H Units	Tes	st strip/Probe
	Ammonia	1			nom		Test strin

(If No. Skip to Section 5)	DESCRIPTION RELATIVE SEVERITY INDEX (1-3)	our $\square$ Petroleum/gas $\square$ 1—Faint $\square$ 2—Easily detected distance distance	□ Gray       □ Yellow       □ I – Faint colors in sample bottle       □ 2 – Clearly visible in sample bottle       □ 3 – Clearly visible in outfall flow	See severity $\Box$ 1 – Slight cloudiness $\Box$ 2 – Cloudy $\Box$ 3 – Opaque	Suds □ 2 – Some; indications of origin (e.g., not obvious sheen)		ving Outfalls Yes [子No (ff No, Skip to Section 6)	DESCRIPTION	Cracking or Chipping   Peeling Paint	low Line	☐ Inhibited	☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Excessive Algae ☐ Other:	□ Orange □ Green □ Other:		
	<b>E</b>	1 – Faint	☐ 1 – Faint colors in sample bottle	1 - Slight cloudiness	1 - Few/slight; origin		ion 6)			sedimen		]			Sugnest (one or more indicators with a result of 2)
ip to Section 5)		338	☐ Yellow ☐Other:				(If No, Skip to Sect	SCRIPTION				Floatables			and the second to constitutions of the second to constitution of t
_	DESCRI	/sour		See severity	, etc.)		Flowing Outfalls	,	Spalling, Cracking or Chipping Cerrosion						
ring Outfalls Only ow? ☐ Yes		☐ Sewage ☐ Rancic ☐ Sulfide ☐ Other:	☐ Clear ☐ Brown ☐ Green ☐ Orange		Sewage (Toilet Paper, etc.)		Flowing and Non- d to flow present?	esent	Spa	Oily	☐ Excessive	Odors Suds	□ Brown	ation	Potential (presence of two or more indicators)
ndicators for Flow tors Present in the flo	CHECK if Present	Ü				ence due to low tide	idicators for Both s that are not relate	CHECK if Present						ıtfall Characteriz	Potential (nresen
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Tyes	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	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?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	Nonlikely

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

Section 1: Bac	ckgrou	nd Data		·	<del></del>				
Subwatershed:					Outfall	ID:	051A.	- 05	
Today's date:		0-5-1	D		Time (	Military):			
Investigators:		- Min	<u> </u>		Form c	completed by:			
Temperature (°F			Rainf	fall (in.): Last 24 hours:	0 Last 48	hours: 0		,	
Latitutde: 2358	3837.854		Longitude:		GPS U	nit:		GPS LMK #	f:
Camera: Nikon-		•			Photo i	¥s:			·
Land Use in Dra	inage Ar	ea (Check all that	t apply):						
☐ Industrial			,		□ Оре	en Space			
Ultra-Urban I	Residenti	ial			_	titutional			
Suburban Re	sidential	*			Other:	•	····		
Commercial					Known	Industries: _			
Section 2: Out	tfall De	escription		nnows, vegetation along c		se, trasii oli si	de of canal, pape	and prastic.	
LOCATIO	N	MATE	RIAL	SH	APE			ONS (IN.)	SUBMERGED
		RCP		Circular .	[5] Single		Diameter/Dime	nsions:	In Water:
		□ PVC	HDPE	☐ Eliptical	☐ Double	e	40	<del></del>	Partially Fully
Closed Pipe		□-Steel		Вох	☐ Triple				With Sediment:
		Other:		☐ Other:	Other:				₩ No
									Partially Fully
		☐ Concrete			<u> </u>		.,		
· .		☐ Earthen		Trapezoid			Depth:		
Open drainag	ge	☐_rip-rap		Parabolic	•		Top Width:		
		☐ Other:	_	Other:			Bottom Width:	<del></del>	
☐ In-Stream		(applicable wh	en collecting	samples)	, , , i a ,		<u> </u>		ज्ञानसम्बद्धानसम्बद्धानसम्बद्धानसम्बद्धानसम्बद्धानसम्बद्धानसम्बद्धानसम्बद्धानसम्बद्धानसम्बद्धानसम्बद्धानसम्बद्धा
Flow Present?		☐ Yes	⊠ No	If No, Ski	ip to Section	15			
Flow Description (If present)		Trickle	☐ Moderate	Substantial					
Section 3: Qua	intitati	ve Character	ization						·
				FIELD DATA FOR FI	LOWING	OUTFALLS			
P	ARAME	TER		RESULT		U	INIT	E	QUIPMENT
□Flow #1		Volume				J	Liter		
		Time to fill					Sec		
		Flow depth				<u> </u>	In		
☐Flow #2		Flow width	0' "			· F	t, In	··	
		Aeasured length	<u>Q'</u> . "			F	rt, In		
		Time of travel				·	Sec	<del></del>	
7	remperat [	nire		The State of Probabilishing			°F		
	pН	<del></del>				pH	Units	Te	st strip/Probe
	Ammon	ia			ľ	Į	ppm		Test strip

. ,		3 – Noticeable from a distance	3 – Clearly visible in outfall flow	aque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)	,	·								
	EX (1-3)	N – 8 🗌		3 – Opaque		-		ENTS						-	
	RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	☐ 2 – Clearly visible in sample bottle	2-Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)		ī	COMMENTS		nd algae					f3) 🗌 Obvious
	REL	į	colors in bottle	cloudiness	ight; origin			<b>3</b>		sediment and algae	<u> </u>				h a severity o
		1 - Faint	1 – Faint colors in sample bottle	1 - Slight cloudiness	☐ 1 – Few/slight; origin		tion 6)		ıt						ndicators witl
tion 5)			wc ::				(If No, Skip to Section 6)	NOI	Peeling Paint	Other:		bles Oil Sheen	□ Other:		Suspect (one or more indicators with a severity of 3)
(If No, Skip to Section 5)	NO	cum/gas	Yellow					DESCRIPTION	hipping	☐ Paint	i	☐ Floatables e Algae	Green		Suspect
	DESCRIPTION	our 🗌 Petroleum/gas	Gray	See severity	c) Suds		wing Outfa		Spalling, Cracking or Chipping Corrosion	Flow Line	☐ Inhibited	☐ Colors ☐ Excessive Algae	☐ Orange		(s)
ls Only s	0	☐ Rancid/sour	☐ Brown ☐ Orange		Sewage (Toilet Paper, etc.)		nd Non-Flor resent?		Spalling,	□ oily □	☐ Excessive	☐ Odors ☐ Suds	☐ Brown		r more indic
wing Outfalls		Sewage Sulfide	Clear Green		Sewage (Toilet Paper		th Flowing a ted to flow pi	resent						zation	ance of two o
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	CHECK if Present					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?	CHECK if Present						Section 6: Overall Outfall Characterization	Potential (presence of two or more indicator
Physical Ind	TOR	ц	)r	lity	bles Include a!!	ial tidal influenc	Physical Indi	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Overall Outf	
Section 4: I Are Any Phy	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potent	Section 5: F Are physica	INDIC	Outfall	Deposit	Abnormal	Poor poc	Pipe bentl	Section 6: C	N Unlikely

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

Section 1: Bac	ckgrou	ınd Data		·					
Subwatershed:					Outfal	II ID:	P51A-C	960	
Today's date:	10	-5-10			Time	(Military):	<del>(                                    </del>	•	
Investigators:	K	-5-10 - MIN			Form	completed by:			
Temperature (°F	·):		Rainf	fall (in.): Last 24 hours: 0	) Last 48	8 hours: 0			
Latitutde: 2358	8837.854	Lor	ngitude:		GPS L	Jnit:		GPS LMK #	
Camera: Nikon-	,				Photo	#s:			
Land Use in Dra	ainage Ai	rea (Check all that app	ly):						
Mindustrial		·			□Ор	en Space			
Ultra-Urban	Resident	tial		•	☐ Ins	stitutional			
☐ Suburban Re	sidential				Other:				<u> </u>
☐ Commercial					Know	n Industries: _			
Notes (e.g, orig	gin of out	tfall, if known): large	crabs, Mi	nnows, vegetation along ca	anal is spa	rse, trash on si	de of canal, paper	and plastic.	
	Ho	dizon							
Section 2: Out					-		····		
LOCATIO		MATERIA	L ,	SHA		s to Switch	DIMENSIO	NS (IN.)	SUBMERGED
		· · · · · · · · · · · · · · · · · · ·	СМР	Circular	Single	•	Diameter/Dimen		In Water:
		1/	HDPE	☐ Eliptical	Doubi		14"		No Partially
Closed Pipe		Steel			Triple		v		Fully
<u> </u>		Other:		☐ Other:	Other:				With Sediment:
			<del>_</del>	Cinci.	Li Oʻliici.	·			☐ Partially
- · · ·		☐ Concrete							☐ Fully
				☐ Trapezoid			Depth:		
Den drainag	ge	Earthen		☐ Parabolic			Top Width:	<u> </u>	
		rip-rap		☐ Other:			Bottom Width: _		
		☐ Other:				<u> </u>	Donom mam		
☐ In-Stream		(applicable when c	ollecting	samples)	7 '			1.	F. \$
Flow Present?		Yes Yes	□No	If No, Skip	to Section	n 5			
Flow Description (If present)	!	Trickle	Moderate	e Substantial					
Section 3: Qua	ntitati	ve Characteriza	tion						
	,			FIELD DATA FOR FL	owing	OUTFALLS			
. <b>P</b>	ARAME	TER		RESULT		U	NIT	EQ	UIPMENT
□Flow #I		Volume	<u> </u>			L	iter		
		Time to fill	<u> </u>				Sec		•
		Flow depth	<u> </u>				In		
∏Flow #2		Flow width	0, "			F	t, In		
	N	leasured length	δ, "			F	t, In		
		Time of travel	ļ	<del></del>		S	Sec		<del></del>
	remperat	:ure					°F		
· · · · · · · · · · · · · · · · · · ·	рH	·				pН	Units	' Tes	t strip/Probe
	Ammon	ia				p	pm	•	Test strip

, $\Box$ No $\Box$ (If No, Skip to Section 5)	DESCRIPTION  RELATIVE SEVERITY INDEX (1-3)	□ Rancid/sour       □ Petroleum/gas       □ 1 - Faint       □ 2 - Easily detected       □ 3 - Noticeable from a distance	Own         AGray         Deflow         1 - Faint colors in sample bottle         2 - Clearly visible in sample bottle         3 - Clearly visible in outfall flow	See severity	etc.) 🔲 Suds		I-Flowing Outfalls ☐ Yes ⊠No (If No, Skip to Section 6)	DESCRIPTION	Spalling, Cracking or Chipping   Peeling Paint   Corrosion	☐ Flow Line ☐ Paint ☐ Other:	ssive Inhibited	rs	wn Clauge Cleen Cother.		indicators) Suspect (one or more indicators with a severity of 3)
		□ 1 – Faint	1 - Faint colors in sample bottle	☐ 1 – Slight cloudines	1 – Few/slight; originot obvious		ion 6)			sedii	į				dicators with a seve
,	DESCRIPTION	Vsour	KGray □ Red	-	etc.) 🔲 Suds			DESCRIPTION		Line		☐ Colors ☐ Floatables ☐ Excessive Algae	☐ Orange ☐ Green		
ing Outfalls Only W?   Yes		☐ Sewage ☐ Rancio	☐ Clear □ Brown ☐ Green ☐ Orange		Sewage (Toilet Paper, etc.)		Flowing and Non- i to flow present?	sent -	Spa	Viio 🗆	☐ Excessive	Odors	□ Brown	tion	N Potential (presence of two or more indicators)
dicators for Flowi	CHECK if Present		×	<b>X</b>		ace due to low tide	licators for Both that are not relatec	CHECK if Present						fall Characteriza	Potential (presend
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	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?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	Unlikely 🖂

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

Section 1: Bac	ckgrou	na Data							4 · · · ·
Subwatershed:		A .			Outfal	l ID:	514-6	7	
Today's date:	10-	-5-10			Time (	Military):			
Investigators:	/_	- mid			Form o	completed by:			
Temperature (°F	7):		Rainf	all (in.): Last 24 hours: (	) Last 48	hours: 0			
Latitutde: 2358	8837.854	Lon	gitude:		GPS U	Init:		GPS LMK #	:
Camera: Nikon-					Photo	#s:	1110.111		
Land Use in Dra	inage Ar	ea (Check all that app	ly):						
✓Industrial					□Ор	en Space			
Ultra-Urban	Resident	ial			☐ Ins	titutional	•		
Suburban Re	sidential				Other:				
Commercial					Knowi	Industries: _			
Notes (e.g, orig				nnows, vegetation along ca	anal is spai	rse, trash on si	de of canal, paper	and plastic.	
	/JE	NIZON							
Section 2: Out	tfall De	escription						, , , , , , , , , , , , , , , , , , ,	
LOCATIO		MATERIA	_	SHA	\PE	7 - M. T 1	DIMENSIO	ONS (IN.)	SUBMERGED
		Ï∕S-RCP □	СМР	M Circular	X Single		Diameter/Dimen	sions:	In Water:
		□ PVC □	HDPE	☐ Eliptical	Doubl	e	Diameter/Dimen	··.	Partially
Closed Pipe		Steel		Вох	☐ Triple				☐ Fully
7		 		☐ Other:	Other:		w.	19.5 1886	With Sediment: ☑ No
			_		_ ,			×.	Partially Fully
,		Concrete							
		☐ Earthen		Trapezoid			Depth:		
Open drainag	ge	rip-rap		Parabolic			Top Width:	_	
	•	☐ Other:		☐ Other:		•	Bottom Width: _	<u></u>	
☐ In-Stream		(applicable when co	llecting	samples)	, °	, ,			
Flow Present?		X Yes	□No	If No, Skip	to Section	15		· · · · · · · · · · · · · · · · · · ·	
Flow Description (If present)	ı		Moderate				·		
Section 3: Oua	ntitati	ve Characterizat	ion	,					
				FIELD DATA FOR FL	OWING	OUTFALLS		•	
P	ARAME	TER		RESULT		U	NIT	EÇ	UIPMENT
□Flow#1		Volume				I	iter		
Пьюм #1		Time to fill		-		,	Sec		
• "		Flow depth	•				In		
□Flow #2		Flow width	<u>ō</u> , "			F	t, In		
	М	feasured length	0, ,,			F	t, In		
		Time of travel			,		Sec		
	Femperat	ure					°F		<u> </u>
	pН					pН	Units	Ţes	t strip/Probe
	Ammon	ia				р	pm		Test strip

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

Section 1: Bac	ekgrou	nd Data					1.	
Subwatershed:			,		Outfall ID:	10/A-	96	
Today's date:	10	-5-10			Time (Military):			
Investigators:	F	$-M_{i}W$			Form completed by	/:		-
Temperature (°F	):	· .	Rainf	all (in.): Last 24 hours: (	Last 48 hours: 0			***
Latitutde: 2358	837.854	Lon	gitude:		GPS Unit:		GPS LMK #	:
Camera: Nikon-					Photo #s:			
Land Use in Dra	inage Ar	ea (Check all that appl	y):		-			
Industrial				· .	Open Space			
Ultra-Urban	Resident	ial	•		☐ Institutional			
Suburban Re	sidential				Other:			
Commercial					Known Industries:			
Notes (e.g, orig	1-6	reiz	rabs, Mii	nnows, vegetation along ca	anal is sparse, trash on	side of canal, pape	r and plastic.	·
LOCATIO		MATERIAI		SHA	<b>NPE</b>	DIMENSI	ONS (IN.)	SUBMERGED
		☑RCP □	CMP	Circular	<b>⊠</b> Single	Diameter/Dime		In Water:
	-	□PVC □	HDPE	☐ Eliptical	Double	18"	<u>,                                     </u>	<b>X</b> No ☐ Partially ☐ Fully
Closed Pipe		Steel		Вох	☐ Triple			
		Other:	<b>-</b> .	Other:	Other:			With Sediment:  ☑ No ☐ Partially ☐ Fully
		Concrete		☐ Trapezoid		Depth:		
По	i.	☐ Earthen		1				
Open drainag	e	□ гір-гар		Parabolic		Top Width:		
		Other:		Other:		Bottom Width:		
☐ In-Stream		(applicable when co	llecting :	samples)		<u>.</u>		ારત ભાગમાં મહત્વન મુખ્યત્વેના ભાગમાં હતા.
Flow Present?		Yes Yes	□ No	If No, Skip	to Section 5			
Flow Description (If present)		☐ Trickle	/Ioderate	Substantial				
Section 3: Qua	ntitati	ve Characterizat	ion					
				FIELD DATA FOR FL	OWING OUTFALLS	÷		
P.	ARAME	TER	į .	RESULT		UNIT	-EQ	UIPMENT
∐Flow #1		Volume				Liter		
		Time to fill	ļ		-	Sec		
		Flow depth				In		
∏Flow #2		Flow width	0, "			Ft, In		,
	N	leasured length	<u>0</u> ' "			Ft, In		·
		Time of travel				Sec	2 + 55 <sub>0</sub>	
7	Temperat	ture				۰F		
	pН				p	H Units	Tes	st strip/Probe
	Ammon	ia.	-			ppm	····	Test strip

tal.

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	cHECK if Present in the flow?  CHECK if Present  CHECK if Present  CHECK if Cle Cle Cle Cle Check if Cle Check if Present CHECK if Present CHECK if Present CHECK if Present CHECK if Present CHECK if Present CHECK if Present	wing Outfal  Bow?   Ye  Clear   Sewage     Green   Green   Petroleum   Present	DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DITE	RELATIVE SEVERITY INDEX (1-3)    12 - Easily detected   3 - Noticeable from a distance   12 - Clearly visible in outfall flow   3 - Clearly visibl
Section 6: Overall Outfall Characterization	tfall Characteri	zation		
Unlikely	Potential (prese	ence of two c	Potential (presence of two or more indicators)   Suspect (one or more indicators with a severity of 3)	ity of 3) Ubvious

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

Section 1: Bac	kgrou	nd Data		· · ·					
Subwatershed:					Outfall	ID:	5/4-0	19	
Today's date:	10	75-10			Time (A	Military):			
Investigators:	R	$\mathcal{M}_{l}$	N		Form co	ompleted by:			
Temperature (°F	):	. ,		fall (in.): Last 24 hours: 0	) Last 48 I	hours: 0			·
Latitutde: 2358	837.854	L	ongitude:		GPS Un	nit:		GPS LMK #:	
Camera: Nikon-					Photo #	s:			
Land Use in Dra	inage Ar	ea (Check all that a	pply):						
Industrial					Oper	n Space			
/ □ Ultra-Urban I	Residenti	al			☐ Insti	itutional			**
☐ Suburban Res	sidential				Other: _	•			<del></del>
☐ Commercial					Known	Industries:			·
Notes (e.g, orig		W-A	e crabs, Mii	nnows, vegetation along ca	mal is spars	e, trash on sid	de of canal, paper an	d plastic.	*
LOCATIO	N	MATERI	AL	SHA	VPE .		DIMENSION	IŠ (IN.)	SUBMERGED
		ľ ~	☐ CMP ☐ HDPE		Single		Diameter/Dimension	ons:	In Water:  ☑ No ☐ Partially
Closed Pipe		☐ Steel		1	— ☐ Triple		<del></del>		Fully
<i></i>		Other:			Other:	:			With Sediment:
					Li Omor.				Partially Fully
		☐ Concrete		F 7id			- 41		
m., , ,	·=	Earthen		☐ Trapezoid			Depth:	• •	
Open drainag	e	□ гір-гар		Parabolic		ļ	Top Width:		
		☐ Other:		Other:			Bottom Width:	<del></del>	
☐ In-Stream		(applicable when	collecting	samples)			·		<u>ित्यानी संस्थान सम्बद्धाः स्थान सम्बद्धाः । सम्बद्धाः सम्बद्धाः । सम्बद्धाः । सम्बद्धाः । सम्बद्धाः । सम्बद्धाः । स</u>
Flow Present?	··	☐ Yes	√Z No	If No, Skip	to Section	5	·	· · ·	
Flow Description (If present)			Moderate				···	· · · · · · · · · · · · · · · · · · ·	-
Section 3: Qua	ntitati	ve Characteriz	ation				· ·		
			· · · · · · · · · · · · · · · · · · ·	FIELD DATA FOR FLO	DWING O		V		
P/	ARAME		1	RESULT .		U	NIT	ĘĘQ	UIPMENT
□Flow#I	i	Volume					iter		
		Time to fill					Sec		
		Flow depth	0, "			·	111		<u> </u>
☐Flow #2		Flow width					t, In		· · · · · · · · · · · · · · · · · · ·
		leasured length  Fime of travel	0' "				t, In		<del> </del>
<u> </u> 	'emperati		<del>                                     </del>				Sec °F		
1	pH				-		Units	1	t strip/Probe
W-14	Ammoni		-			- рп	· · ·	- I es	ampirioue

tfalls Only Yes MNo (If No, Skip to Section 5)	DESCR	ge Rancid/sour Petroleum/gas	□ Brown       □ Gray       □ Yellow       □ 1 – Faint colors in sample bottle       □ 2 – Clearly visible in sample bottle       □ 3 – Clearly visible in outfall flow	See severity $\Box 1$ —Slight cloudiness $\Box 2$ —Cloudy $\Box 3$ —Opaque	ge (Toilet Paper, etc.)		g and Non-Flowing Outfalls w present?	DESCRIPTION	Spalling, Cracking or Chipping Paint Corrosion	Oily Telow Line Daint Other: sediment and algae	☐ Excessive ☐ Inhibited -	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	□ Brown □ Orange □ Green □ Other:		
	DESCR		Gray Red	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:		n-Flowing Outfalls	,		☐ Flow Line ☐ Paint		☐ Colors ☐ Floatables ☐ ☐ Excessive Algae	☐ Orange ☐ Green	ıtion	Potential (presence of two or more indicators)
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	CHECK if Present					Notes: Potential tidal influence due to low tide	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	CHECK if Present	Q.	s	ıtion	ų l	wth	Section 6: Overall Outfall Characterization	Potential (present
Section 4: Physic Are Any Physical I	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal	Section 5: Physic Are physical indic	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overa	T Unlikely

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

Section 1: Bac	ckgrou	ing Data							
Subwatershed:					Outfal	I ID:	2511?	· · · · · · · · · · · · · · · · · · ·	
Today's date:	10	45-10			Time (	(Military):			
Investigators:	R	Min			Form o	completed by:	<del>.</del>		
Temperature (°F	·):		Rainf	all (in.): Last 24 hours: (	) Last 48	hours: 0		<del>. ,</del>	
Latitutde: 2358	8837.854	Lor	gitude:	· 	GPS U	Init:	<del>-</del> -	GPS LMK #	-
Camera: Nikon-					Photo	#s:			***
Land Use in Dra	tinage Ar	rea (Check all that app	ly):		•				
<b>⊞</b> Industrial					□Ор	en Space .			
Ultra-Urban	Resident	ial			☐ Ins	titutional	. '	,	
	sidential				Other:		<u>,</u>		<del>-</del>
☐ Commercial					Knowi	n Industries: _			<u> </u>
Notes (e.g, orig			crabs, Mi	nnows, vegetation along ca	anal is spar	rse, trash on si	de of canal, pape	r and plastic.	
LOCATIO	N	MATERIA	L	SHA	\PE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DIMENSI	ONS (IN.)	SUBMERGED
		⊠ RCP □	СМР	Circular	Single	;	Diameter/Dime	nsions:	In Water:
		□ PVC □	HDPE	☐ Eliptical	Doub1	e	X 45	<u> </u>	☐ No ☐ Partially
Closed Pipe		☐ Steel		□Box	Triple				<b>A</b> Fully
,		Other:	_	Other:	Other:	·			With Sediment:
								•	☐ Partially ☐ Fully
14		☐ Concrete			•				
		☐ Earthen		☐ Trapezoid	,		Depth:		
Dpen drainag	<u>z</u> e	rip-rap		Parabolic			Top Width:		
•		☐ Other:		Other:			Bottom Width:	·	
☐ In-Stream		(applicable when co	llecting	samples)		the state of			
Flow Present?	<del>,</del>	☐ Yes	No.	If No, Skip	to Section	u 5	<del> </del>		
Flow Description (If present)	ı	☐ Trickle ☐	Moderate	☐ Substantial			······································		- 1001
Section 3: Oug	ontitati	ve Characteriza	ion	-					
20011011 21 Qua		TO CHAIRCEFIZATION	.1011	FIELD DATA FOR FL	OWING	OUTFALLS			
P.	ARAME	TER		RESULT		U	NIT	EQ	UIPMENT
	[	Volume		The state of the s	• •	I	iter		
□Flow#1		Time to fill			•	,	Sec		
		Flow depth		· .			In	•,	
☐Flow #2		Flow width	<u>0</u> , "			F	t, In		
	N	Aeasured length	0, "			F	t, In		
	<u> </u>	Time of travel					Sec		
7	remperat	ture	<u>.                                    </u>	· · · · · · · · · · · · · · · · · · ·			°F		
	pН	<u> </u>				pН	Units	Tes	t strip/Probe
	Ammon	ia .	[	•		n	ının l		Test strin

No, Skip to Section 5)	TON RELATIVE SEVERITY INDEX (1-3)	oleum/gas $\square$ 1 — Faint $\square$ 2 — Easily detected distance	y $\square$ Yellow $\square$ 1 - Faint colors in $\square$ 2 - Clearly visible in sample bottle sample bottle sample bottle low	ity	☐ 1 → Few/slight; origin of origin (e.g., not obvious origin sheen)		falls No (If No, Skip to Section 6)	DESCRIPTION	Chipping   Peeling Paint	☐ Paint ☐ Other: sediment and algae	pa	☐ Floatables ☐ Oil Sheen ive Algae ☐ Other:	e 🔲 Green 🔲 Other:		Suspect (one or more indicators with a severity of 3)
(If No, Skip to Section 5)	DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ 1 — Faint ☐ 1 their		See severity	, etc.) Suds	, A.C.		DESCRIPTION		Other:	□ Excessive □ Inhibited				r more indicators) Uspect (one or more indicators with a severity of 3)
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	CHECK if Present	Sewage	Clear Green		Sewage (Toilet Paper	te 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?	CHECK if Present						all Characterization	Potential (presence of two or more indicators)
Section 4: Physical Indi	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indi Are physical indicators the	INDICATOR	Outfall Damage	Deposits/Stains	Abnonnal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	Unlikely   P

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

Section 1; Dat	ekground	1 Data						
Subwatershed:					Outfall ID:	D51-8	35	
Today's date:	10	-5-10			Time (Military):			
Investigators:	OL.	min			Form completed by:			
Temperature (°F	·):		Rainf	all (in.): Last 24 hours: 0	Last 48 hours: 0	ir washer	,	
Latitutde: 2358	3837.854	Long	itude:	· · · · · · · · · · · · · · · · · · ·	GPS Unit:		GPS LMK #	
Camera: Nikon-					Photo #s:		·	
Land Use in Dra	inage Area	(Check all that apply	/):			ATT CONTRACTOR OF THE CONTRACT		
∭Industrial					Open Space			
Ultra-Urban I	Residential				☐ Institutional →			
Suburban Res	sidential				Other:			
Commercial					Known Industries: _			
Notes (e.g, orig	in of outfal	l, if known): large cr	abs, Mir	nnows, vegetation along car	nal is sparse, trash on s	ide of canal, paper	and plastic.	,
				·	<i>*</i>	•		
Section 2: Out	tfall Desc	cription		``}				išo .
LOCATIO	N	MATERIAL		SHA	PE 🧳	DIMENSIO	NS (IÑ.)	SUBMERGED
		RCP □ C	MP	Circular	Single	Diameter/Dimen	sions:	In Water:
	1	e PVC □ H	IDPE	☐ Eliptical	Double	Diameter/Dimen		No Partially
Closed Pipe	][	Steel		Вох	Triple			☐ Fully
,		Other:	_	☐ Other:	☐ Other:			With Sediment: ₩No
								Partially    Fully
1. P		Concrete						
	[	Earthen		Trapezoid		Depth:		
Open drainag		☐ rip-rap	-	Parabolic	•	Top Width:	_	
	1	Other:		Other:	X.	Bottom Width: _		
☐ In-Stream		applicable when col	lecting s	samples)			:	
Flow Present?		Yes	<b>¹</b> D∕No	If No, Skip	to Section 5	******		
Flow Description (If present)	, <u> </u> [	Trickle M	íoderate	☐ Substantial	₹.			
Section 3. One		Characterizati	^"	**************************************		*		
section 3. Qua	mutative	Characterizati	OII	FIELD DATA FOR FLO	OWING OUTFALLS			
P.	ARAMETE	ER		<u></u>	24	INIT	EO	UIPMENT
	!	Volume	•		·····	Liter		
Flow #1	Т	Time to fill				Sec		
	F	low depth				In		· · · · · · · · · · · · · · · · · · ·
□r:1#2	F	low width	<u>0</u> ' "		F	it, In		
□Flow #2	Mea	asured length	<u>0</u> '"		F	t, In		
	Tir	me of travel		: , k		Sec		
Т	remperature [	e				°F		
	pН				pН	Units	Tes	t strip/Probe
	Animonia					oom		Test strip

Professional Professional

Ų

L	Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?   Ves	adicators for Fle	owing Outfa	Yes Only Yes		(If No, Skip to Section 5)	o Section .	5)	•			,	
I.	INDICATOR	CHECK if Present		,	DESCRIPTION	TION				RELA	RELATIVE SEVERITY INDEX (1-3)		
	Odor		Sewage Sulfide	Rancid/sour	/sour	] Petroleum/gas			☐ 1 – Faint		2 - Easily detected	☐ 3 – Noticeable from a distance	ea .
<u>-</u> -L	Color		☐ Clear	☐ Brown ☐ Orange			☐ Yellow ☐Other:		☐ 1 — Faint colors in sample bottle	ors in tle	2 – Clearly visible in sample bottle	3 - Clearly visible in outfall flow	
	Turbidity				See severity	erity			1 - Slight cloudiness	udiness	2-Cloudy	3 - Opaque	
	Floatables -Does Not Inclúde Trash!!		Sewage	☐ Sewage (Toilet Paper, etc.) ☐ Petroleum (oil sheen)		Suds Other:			1 – Few/slight; origin not obvious	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 floating sanitary materials)	ır ating
<u></u>	Notes: Potential tidal influence due to low tide	ance due to low tide											Ì
4	Section 5: Physical Indicators for Both Flowing and Non-Flowing Are physical indicators that are not related to flow present?	dicators for Bo	th Flowing a	and Non-Fik		Outfalls	(If No, .	(Jf No, Skip to Section 6)	ion 6)				]
	INDICATOR	CHECK If Present	Present			DESC	DESCRIPTION				COMMENTS	ITS	
. 3	Outfall Damage			Spalling, C	Spalling, Cracking or Chipping Corrosion	or Chipping	П	Peeling Paint					
	Deposits/Stains '			Oily	Tlow Line	☐ Painť	o O	Other:		sediment and algae	d algae		Τ
	Abnormal Vegetation		3	☐ Excessive	Inhibited	ited							T
	Poor pool quality	7		Odors Suds	Colo	☐ Colors ☐ I ☐ Excessive Algae	☐ Floatables ae	Oil Sheen					]
	Pipe benthic growth			☐ Brown	Orange		Green	Other:					
,	Section 6: Overall Outfall Characterization	tfall Characteri	ization										]

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

☐ Potential (presence of two or more indicators)

Unlikely

□ Obvious

☐ Suspect (one or more indicators with a severity of 3)

Section 1: Bac	ckgrou	ind Data					
Subwatershed:					Outfall ID:	P 5-1-803	<del></del>
Today's date:	10	<u> </u>	D		Time (Military):		
Investigators:	R	- 11	. 1/_		Form completed l	by:	
Temperature (°F	):		Rain	afall (in.): Last 24 hours:	0 Last 48 hours: 0	, , , , , , , , , , , , , , , , , , ,	. , ,,,,,
Latitutde: 2358	3837.854		Longitude:	· <u>-</u>	GPS Unit:	GPS LMK	#:
Camera: Nikon-				***************************************	Photo #s:		<del></del> ,
Land Use in Dra	inage Ar	rea (Check all th	at apply):			,	
\(\sum_{\text{Industrial}}\)				- 	₁ Open Space		
	Resident	rial .		<b>अ</b> . स्	☐ Institutional		
				a to	Other:		
Suburban Res	sideniiai			÷ 2	· ·		
☐ Commercial	·	<del>.</del>			Known Industries		
Notes (e.g, orig	in of out	fall, if known):	large crabs, M	innows, vegetation along o	canal is sparse, trash or	n side of canal, paper and plastic.	
						<u></u>	
Section 2: Out	efall De	escription			£		
LOCATIO		T	ERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
		RCP		Circular	Single	Disease (Disease)	In Water:
		1		17	10	Blameler/Dimensions:	[₹No
		Z-PVC	☐ HDPE		Double		☐ Partially ☐ Fully
Closed Pipe		☐-Steel		Вох	☐ Triple		With Sediment:
		Other:		☐ Other:	☐ Other:		Ľ <b>Z</b> ŤNo.
					,		☐ Partially☐ Fully
		☐ Concrete	,		<del></del>		
		Earthen		☐ Trapezoid		Depth:	
☐ Open drainag	;e	1		Parabolic		Top Width:	
		☐ rip-rap		Other:		Bottom Width:	
		Other:					
☐ In-Stream		(applicable w	hen collecting				
Flow Present?		☐ Yes	72/1/0	If No, Ski	ip to Section 5		
Flow Description (If present)		Trickle	☐ Moderate	e 🔲 Substantial			<i>#</i>
Section 3: Qua	ntitati	ve Characte	rization				
				FIELD DATA FOR FL	LOWING OUTFALL	S	
P/	ARAME	TER		RESULT		UNIT E	QUIPMENT
□Flow#1		Volume				Liter	_
		Time to fill				Sec	
		Flow depth				In	
□Flow #2		Flow width	<u>0</u> , ,	,		Ft, In	. • .
□F10W#4	M	Aeasured length	<u>ō</u> , ,	,		Ft, In	7.1
	7	Time of travel				Sec	š.
Т	remperati	ure				°F	ر کا انجور
	pН				1	pH Units Te	est strip/Probe
	Ammoni						

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	ors Present in the f CHECK if Present	Ming Outfal  flow?	DESCRIPTION  mid/sour □ Petroleum/gas  her:  own □ Gray □ Yellow  sample bottle  See severity  ct, etc.) □ Suds  mot obvious  DESCRIPTION  RELATIVE SEVERITY INDEX (1)  □ 1 - Faint colors in sample bottle sample	-3)  3 - Noticeable from a distance  3 - Clearly visible in outfall flow  3 - Opaque  3 - Opaque  3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	dicators for Bot that are not relat	th Flowing a ted to flow pr	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls  Are physical indicators that are not related to flow present?  \[ \text{Yes} \text{Yes} \] \text{Yes} \[ \text{IFNo, Skip to Section 6} \]	,
INDICATOR	CHECK if Present	resent	DESCRIPTION	
Outfall Damage		*	Spalling, Cracking or Chipping Peeling Paint Peeling Paint	
Deposits/Stains			w Line Paint Other: sediment and algae	
Abnormal Vegetation			□ Excessive □ Inhibited	
Poor pool quality			☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth			☐ Brown ☐ Orange ☐ Green ☐ Other:	
Section 6: Overall Outfall Characterization	tfall Characteris	zation		
Unlikely	Potential (prese	ince of two o	Potential (presence of two or more indicators)	

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

Section 1: Background Data Subwatershed: Outfall ID: Today's date: Time (Military): Investigators: Form completed by: Temperature (°F): Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0 Latitutde: 2358837.854 GPS Unit: Longitude: GPS LMK #: Camera: Nikon-Photo #s: Land Use in Drainage Area (Check all that apply): Industrial Open Space Ultra-Urban Residentia ☐ Suburban Residentia ☐ 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. Section 2: Outfall Description MATERIAL LOCATION SHAPE DIMENSIONS (IN.) SUBMERGED □ RCP □ ĆMP Circular ☐ Single Diameter/Dimensions: In Water: □ No ☐ PVC ☐ HDPE Eliptical □ Double Partially Fully Closed Pipe Steel With Sediment: Other: Other: ☐ No ☐ Partially Other ☐ Fully □ Concrete ☐ Earthen Open drainage 🔲 гір-гар Other: \_ Bottom Width: Other: 🔲 In-Stream (applicable when collecting samples) Flow Present? ☐ Yes ☐ No If No, Skip to Section 5 Flow Description Trickle □ Substantial (If present) Section 3: Quantitative Characterization **FIELD DATA FOR FLOWING OUTFALLS PARAMETER** RESULT UNIT **EQUIPMENT** Volume Liter Flow #1 Time to fill Sec Flow depth In Flow width Ft, In ☐Flow #2 0' Measured length Ft, In Time of travel Sec Temperature ٥F pΗ pH Units Test strip/Probe

ppm

Test strip

Ammonia

Section 1: Ba	ckgrou	nd Data							
Subwatershed:		. —			Outfal	I ID:	152-	0	
Today's date:	10	-5-10			Time	(Military):	<del>-                                    </del>		, <u>, , , , , , , , , , , , , , , , , , ,</u>
Investigators:	R	Min	/		Form	completed by:			
Temperature (°)	F):		Rainf	fall (in.): Last 24 hours	: 0 Last 48	3 hours: 0			
Latitutde: 235	8837.854		Longitude:		GPS U	Jnit:		GPS LMK #	
Camera: Nikon-	•				Photo	#s:		•	
Land Use in Dra	ainage Ar	ea (Check all th	at apply):						
☐ Industrial					□ Op	en Space	•		
Ultra-Urban	Resident	iaI			☐ Ins	titutional		-	
Suburban Re	esidential				Other:	•	· · · · · · · · · · · · · · · · · · ·		·
Commercial					Know	n Industries: _			<u>.</u>
Section 2: Ou	tfall De	escription		nnows, vegetation along					
LOCATIO	N		RIAL		IAPE			ONS (IN.)	SUBMERGED
		RCP PVC	☐ CMP	☐ Circular ☐ Eliptical	∑ Single  □ Doubl		Diameter/Dime	nsions:	In Water:  □ No □ Partially
Closed Pipe		□-Steel		ˈ <mark>⊠</mark> `Box	☐ Triple		, 2		Fully
		Other:	···-	Other:	Other:				With Sediment:  √M No  ☐ Partially ☐ Fully
☐ Open draina	ge	Concrete Earthen rip-rap Other:		☐ Trapezoid ☐ Parabolic ☐ Other:	- <b>L</b>	÷	Depth: Top Width: Bottom Width:		
☐ In-Stream		(applicable wl	ien collecting	samples)					
Flow Present?		Yes	oli <b>Z</b> i		ip to Section	· · · · · · · · · · · · · · · · · · ·	<u> </u>		
Flow Description (If present)	<b>)</b>	☐ Trickle	☐ Moderate		ip to Becau				
Section 3: Ou	ntitati	ve Characte	rization						
Section 3: Quantitative Characterization  FIELD DATA FOR FLOWING OUTFALLS									
P	ARAME	TER		RESULT			NIT	EQ	UIPMENT
□Flow#1		Volume				L	iter	·	
		Time to fill	<u></u>				Sec		
		Flow depth					In		
□Flow #2		Flow width	0, "			F	t, In	,	
,	<del> </del>	leasured length	<u>0</u> ' "			F	, In		
	,	Time of travel		·		S	lec		
	Temperat	ure		***			°F		
	pН					рН	Units	Tes	t strip/Probe
	Ammon	ia	İ			· p	pm		Test strip

	[:-3)	3 - Noticeable from a distance	3 - Clearly visible in outfall flow	3 - Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)											
*1	RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	2-Clearly visible in sample bottle	2~Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)			COMMENTS		lgae					□ Obvious	
	RELATI									sediment and algae					1 a severity of 3)	
		□ 1 – Faint	☐ 1 – Faint colors in sample bottle	1 – Slight cloudiness	1 – Few/slight; origin not obvious		ection 6)		int			uee			indicators with	
(If No, Skip to Section 5)		n/gas	☐ Yellow ,				(If No, Skip to Section 6)	DESCRIPTION	ping 🔲 Peeling Paint	☐ Paint ☐ Other:		☐ Floatables ☐ Oil Sheen Jgae ☐ Other:	Green Other:		Suspect (one or more indicators with a severity of 3)	
	DESCRIPTION	sour 🔲 Petroleum/gas	Gray	See severity	c.) Suds		wing Outfalls ☐ Yes ☐ No	<b>.</b>	Spalling, Cracking or Chipping Corrosion	Flow Line	☐ Inhibited	Colors Cassive Algae	Orange			
falls Only,	1	Rancid/sour	Brown		Sewage (Toilet Paper, etc.)		and Non-Flo		Spalling, C	Oily	☐ Excessive	Odors Suds	☐ Brown		Potential (presence of two or more indicators)	
Flowing Outi		Sewage	Clear Green		Sewage	je	Soth Flowing	CHECK if Present						erization	esence of two	
dicators for ors Present in t	CHECK if Present					nce due to low tic	dicators for I	СНЕСК						tfall Charact	Potential (pr	
Section 4: Physical Indicators for Flowing Outfalls Only.  Are Any Physical Indicators Present in the flow?   Yes	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	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?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	Unlikely	

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

Section 1: Bac	ckgrou	nd Data							
Subwatershed:				******	Outfall	ID:	P52-	02	
Today's date:	13	10-5-	10		Time (	Military):	1	,	
Investigators:	9	E M	N		Form c	ompleted by:			
Temperature (°F	):	•	Rainf	fall (in.): Last 24 hours: 0	Last 48	hours: 0		,,,,,,,	***************************************
Latitutde: 2358	8837.854	Lon	gitude:		GPS U	nit:		GPS LMK #	:
Camera: Nikon-					Photo #	<b>#s</b> :			
Land Use in Dra	inage Ar	ea (Check all that app	ly):						
Industrial				<b>.</b>	□Оре	en Space			
Ultra-Urban l	Resident	ial			☐ Inst	itutional			
Suburban Re	sidential				Other:				
Commercial		\rightarrow \frac{1}{2}			Known	Industries: _			· 
Section 2: Out	tfall De	escription		nnows, vegetation along ca		se, trash on si	de of canal, pape	r and plastic.	
LOCATIO	N	MATERIAL	· ·	1	\PE		DIMENSI	ONS (IN.)	SUBMERGED
,	/	RCP D	CMP HDPE	Circular	Single  Double		Diameter/Dime	nsions: ,	In Water:  No Partially
Closed Pipe		Steel		□Box	☐ Triple		-		☐ Fully
	ŕ	☐ Other:	_	☐ Other:	Other:				With Sediment:  No Partially Bully
☐ Open drainag	e	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:	· S	☐ Trapezoid ☐ Parabolic ☐ Other:	. (.		Depth: Top Width: Bottom Width:		
☐ In-Stream		(applicable when co	llecting	samples)	, , ,	1			ाम-सम्बद्धाः स्थानम् सम्बद्धाः स्थानम् । 
Flow Present?		☐ Yes	<b>⋈</b>	If No, Skip	to Section	ı 5			, at
Flow Description (If present)		☐ Trickle ☐ I	Moderate	Substantial			34		<b>b</b>
Section 3: Qua	ntitati	ve Characterizat	ion	FIELD DATA FOR FL	OWANG A	OUTEALLO	76		
	ARAME		· ·	RESULT	OAATIAG		NÍT .		MITTORATERA
F7	AKAPIL	Volume		RESULT	de production		iter	(A. Ala El	QUIPMENT
□Flow #1	ļ <u> </u>	Time to fill			1.		Sec		y 2, 4
		Flow depth					In		· · · · · · · · · · · · · · · · · · ·
		Flow width	<u>o</u> , "				t, In	<del></del>	
.□Flow #2	N	leasured length	<u>o</u> , "				t, In		
		Time of travel	_	•		·	Sec		
	Cemperat			ĺτ			°F		
	рН	· · · · · · · · · · · · · · · · · · ·			····		Units	Tes	st strip/Probe
	Ammon	ia .				·	nm		Test strin

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes +	adicators for Flc	owing Outfa	Yes Halo	(If No, St	(If No, Skip to Section 5)	5)				P*
INDICATOR	CHECK if Present			DESCRIPTION			<b></b>	RELATIVE SEVERITY INDEX (1-3)	(1-3)	
Odor	'	Sewage Sulfide	☐ Rancid/sour	ur 🔲 Petroleum/gas	gas		1 – Faint	2 - Easily detected	3 - Noticeable from a distance	7
Color .		☐ Clear ☐ Green	☐ Brown ☐ Orange	Gray	☐ 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	7
Floatables -Does Not Include Trash!!		Sewage (	Sewage (Toilet Paper, etc.)	☐ Suds ☐ Other:		<u> </u>	☐ 1 – Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)	7
Notes: Potential tidal influence due to low tide	ence 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?	dicators for Box s that are not rela	th Flowing a	and Non-Flow	ving Outfalls   Yes     No	(If No,	(If No, Skip to Section 6)	(9 u			7
INDICATOR	CHECK if Present	Present		Id	DESCRIPTION			COMMENTS	S	
Outfall Damage			Spalling, C	Spalling, Cracking or Chipping Corrosion	ing 🗆	Peeling Paint				
Deposits/Stains			Oily   Flow	low Line Paint		Other:	sediment	sediment and algae		
Abnormal Vegetation			☐ Excessive	☐ Inhibited						
Poor pool quality			Odors Suds	Colors Colors Excessive Algae	☐ Floatables gae	Oil Sheen				
Pipe benthic growth	· · · · · · · · · · · · · · · · · · ·		☐ Brown	☐ Orange	Green	Other				
Section 6: Overall Outfall Characterization	ıtfall Characteri	ization								

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

Potential (presence of two or more indicators)

**Onlikely** 

☐ Obvious

 $\square$  Suspect (one or more indicators with a severity of 3)

Section 1: Bac	ckgrou	nd Data							·
Subwatershed:				- · ·	Outfall	l ID:	P52		
Today's date: /	0-5-	10			Time (	(Military):	<del> </del>		
Investigators:	R	MIN			Form c	completed by:			
Temperature (°F			Rainf	fall (in.): Last 24 hours: 0	<del></del>	8 hours: 0			
Latitutde: 2358	3837.854		Longitude:		GPS U	Jnit:		GPS LMK #:	
Camera: Nikon-				,	Photo #	#s: ·			
	inage Ar	rea (Check all that	t apply):					<del></del> .	
Industrial		•		,	Оре	en Space			
Ultra-Urban I	Residenti	ial		•	☐ Inst	stitutional			
Suburban Res	sidential				Other:				
Commercial					Knowr	n Industries:		·	
Notes (e.g, orig	in of out	fall, if known): la	arge crabs, Mir	nnows, vegetation along car	ınal is spar	rse, trash on si	de of canal, paper	and plastic.	
						-	•€		
Section 2: Out	ffall De	ecrintion		<u> </u>				,	
LOCATIO		MATER	RIAL	SHA			DIMENSI	ONS (IN.)	SUBMERGED
ļ		RCP	□СМР	<u> </u>	☐ Single	<del></del>	Diameter/Dime	nsions:	In Water:
		□PVC	☐ HDPE		Double	•	18"		MNo ☐ Partially
☑ Closed Pipe		Steel			☐ Triple				☐ Fully
<del>,-</del>		Other:			Other:				With Sediment:
									☐ Partially ☐ Fully
	<del></del>	☐ Concrete						·	
		☐ Earthen	!	☐ Trapezoid			Depth;		
Den drainag	ţe	☐ rip-rap	1	Parabolic		ĺ	Top Width:	<u>·</u>	
	-		!	☐ Other:		ĺ	Bottom Width:	<del></del>	
- a		Other:	<u>-</u>	<u> </u>	<del></del>				
In-Stream		(applicable who		<u> </u>	<u> </u>				
Flow Present?		☐ Yes	No.	If No, Skip	to Section	15	<u>.</u>	Çie	
Flow Description (If present)		☐ Trickle	☐ Moderate	Substantial					
Section 3: Qua	intitati	ve Character	rization		_		,		
<u> </u>			:.	FIELD DATA FOR FLO	OWING	OUTFALLS			
P.	ARAME	TER		RESULT	L. i.e.	U U	NIT	EQ	UIPMENT
□Flow#1		Volume				. I	Liter		
		Time to fill				5	Sec		
		Flow depth					In		ro,
Flow #2		Flow width	0, "	:	-	₽F1	t, In		
L	<u> </u>	Aeasured length	0, "			F	t, In		
	l	Time of travel				S	Sec		·
Т	Temperat	ure				<u> </u>	°F		-
	pН					pН	Units	Tes	t strip/Probe
	Ammon	ia				р	pm		Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	dicators for Flo	wing Outfalls	ls Only s \square\square\no	(If No, S	(If No, Skip to Section 5)				
INDICATOR	CHECK if Present			DESCRIPTION			RELA	RELATIVE SEVERITY INDEX (1-3)	1-3)
Odor		Sewage Sulfide	☐ Rancid/sour	ur 🔲 Petroleum/gas	/gas	1 – Faint		2 – Easily detected	3 – Noticeable from a distance
Color		Clear	☐ Brown ☐ Orange	Gray	☐ Yellow ☐ Other:	1 - Faint colors in sample bottle	ors in tle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity				See severity		☐ 1 – Slight cloudiness	udiness	2 - Cloudy	☐ 3 — Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper	Sewage (Toilet Paper, etc.)	Suds	-	1 – Few/slight, origin	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 floating sanitary materials)
Notes: Potential tidal influence due to low tide	nce 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?	dicators for Bot that are not relat	th Flowing an	nd Non-Flow esent?	ing Outfalls Yes □ No	(If No, Skip to Section 6)	ection 6)			
INDICATOR	CHECK if Present	resent	3	ם	DESCRIPTION			COMMENTS	
Outfall Damage			Spalling, C	Spalling, Cracking or Chipping Corrosion	ing   Peeling Paint	aint			
Deposits/Stains				☐ Flow Line ☐ Paint	uint Other:		sediment and algae	1 algae	
Abnormal Vegetation			☐ Excessive	☐ Inhibited					
Poor pool quality			Odors Suds	☐ Colors ☐ Excessive Algae	☐ Floatables ☐ Oil Sheen gae ☐ Other:	eeu			
Pipe benthic growth			☐ Brown	Orange	Green Other:				
Section 6: Overall Outfall Characterization	tfall Characteri	zation							
Unlikely	Potential (presence of two or more indicators)	ance of two or	r more indicat		Suspect (one or more indicators with a severity of 3)	indicators with a	severity of	3)	
Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?	licit Discharge (	Concerns (e.g	z., trash or ne	eded infrast	ructure repairs)?				

Section 1: Ba	ckgrou	nd Data	····						•
Subwatershed:					Outfal	il ID:	152	_	
Today's date:	10.	-5-12			Time (	(Military):			
Investigators:	R	min	7		Form (	completed by:			
Temperature (°F	₹):		Rainf	fall (in.): Last 24 hours:	0 Last 48	8 hours: 0			
Latitutde: 2358	8837.854		Longitude:		GPS U	Jnit:		GPS LMK #	ł:
Camera: Nikon-					Photo	#s:			
Land Use in Dra	ainage Ar	ea (Check all that	apply):						<del></del> :
X Industrial					Op	en Space			
☐ Ultra-Urban	Resident	ial			☐ Ins	stitutional	.*		
Suburban Re	sidential				Other:	. <u> </u>			
Commercial					Know	n Industries:		<del></del>	
Notes (e.g, orig			ge crabs, Mi	nnows, vegetation along c	anal is spai	rse, trash on sid	de of canal, paper	and plastic.	
LOCATIO	N	MATER	IAL	SH	APE		DIMENSIC	NS (IN.)	SUBMERGED
		RCP	□ СМР	☐ Circular	☐ Single	;	Diameter/Dimen	sions:	In Water:
		□PVC	☐ HDPE	☐ Eliptical	Doub!	le	12"		□ No Partially
Closed Pipe		Steel		Вох	☐ Triple	;			Fully
		Other:		☐ Other:	Other:	: <u></u>			With Sediment:
					_ ,	***************************************			Partially Fully
		Concrete		☐ Trapezoid			Depth:		
□ Open dreiner		☐ Earthen		Parabolic			·		
☐ Open drainage ☐ rip-rap							Top Width:	•	
☐ Other:				Other: Bottom Width					
☐ In-Stream (applicable when			n collecting	samples)	, , ,				<u> ព្រះក្មេត្តកម្មភាព បានប្រធានក្រាស់វិធីការបំណែទីក</u>
☐ In-Stream (applicable when Flow Present? ☐ Yes			X□ No	If No, Ski	p to Section	n 5			
Flow Description (If present)		☐ Trickle	☐ Moderate	Substantial					
Section 3: Qua	ntitati	ve`Characteri	zation			<del> </del>			
		<u> </u>		FIELD DATA FOR FL	LOWING	OUTFALLS	. :		
P	ARAME	TER		RESULT		U	NIT	E	QUIPMENT
☐Flow #1		Volume	-			L	iter		
	ļ	Time to fill .	-				Sec		
		Flow depth					In		
∏Flow #2		Flow width	0' "				t, In		1001
		leasured length	0' "				t, In		
		Time of travel	_				Sec PF		
	Temperat pH	41.C					Units	т.	ct ctrin/Probe
	pri					pri	OHIIS	1 e	st strip/Probe

ppm

Test strip

Ammonia

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?   We have a compared to the flow of the flow	DESCR	□ Sewage       □ Rancid/sour       □ Petroleum/gas       □ 1 - Faint       □ 2 - Basily detected       □ 3 - Noticeable from a distance	□ Clear     □ Brown     □ Gray     □ Yellow     □ 1 - Faint colors in sample bottle     □ 2 - Clearly visible in outfall flow       □ Green     □ Orange     □ Red     □ Other:     sample bottle     sample bottle	See severity $\Box 1-Slight$ cloudiness $\Box 2-Cloudy$ $\Box 3-Opaque$	□ Sewage (Toilet Paper, etc.)       □ Sewage (Toilet Paper, etc.)       □ Suds       □ 1 - Few/slight; origin of origin (e.g., obvious oil sheen)       □ 1 - Few/slight; origin of origin (e.g., obvious oil sheen)       □ Chher.       (e.g., obvious oil sheen, suds, or floating sanitary materials)	o low tide	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls  Are physical indicators that are not related to flow present?	CHECK If Present COMMENTS	□ Spalling, Cracking or Chipping □ Peeling Paint □ Corrosion	□ Oily □ Flow Line □ Paint □ Other. sediment and algae	☐ Excessive ☐ Inhibited	Colors   Floatables	Lacessive Algae
	DESCR	Rancid/sour	☐ Brown ☐ Gray ☐ Orange ☐ Red ☐	See severity	, etc.)					☐ Flow Line ☐ Paint	l	Colors Ploatables   Froatables	The state of the s
icators for Flowing s Present in the flow?	CHECK if Present					e due to low tide	icators for Both File hat are not related to	CHECK if Prese					
Section 4: Physical Indi	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Indi Are physical indicators th	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	

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

☐ Potential (presence of two or more indicators)

Section 6: Overall Outfall Characterization

 $\Box$  Unlikely

□ Obvious

 $\square$  Suspect (one or more indicators with a severity of 3)

Section 1: Bac	kgrou	nd Data					Λ.		
Subwatershed:		_		•	Outfal	l ID:	75-	>	
Today's date:	10	-5-10			Time	(Military):			
Investigators:	R	- mr		•	Form	completed by:			
Temperature (°F	): '	•	Rainf	fall (in.): Last 24 hours: (	Last 48	hours: 0			
Latitutde: 2358	8837.854	Lor	gitude:	,	GPS U	Init:	`	GPS LMK #	
Camera: Nikon-			-		Photo	#s:			· · ·
Land Use in Dra	inage Ar	ea (Check all that app	ly):						1-1000
[ Industrial					☐ Op	en Space			
Ultra-Urban I	Residenti	ial .			☐ Ins	titutional			
☐ Suburban Re	sidential				Other:			7	
☐ Commercial					Know	n Industries: _	· .		
Notes (e.g, orig	<del> </del>	×	crabs, Mi	nnows, vegetation along ca	anal is spa	rse, trash on s	ide of canal,	paper and plastic.	
LOCATIO	N	MATERIA	L	SHA	\PE	* - 1	DIME	NSIONS (IN.)	SUBMERGED
			CMP >	1`	☐ Gingle		Diameter/I	Dimensions:	In Water:
¥			HDFE	Eliptical	Doubl		1		☐ Partially ☐ Fully
Closed Pipe		Steel		□Box	☐ Triple				With Sediment:
		Other:	<u> </u>	Other:	Other				☑No ☐ Partially ☐ Fully
		Concrete					<del></del>		
		☐ Earthen		☐ Trapezoid			Depth:	<del></del>	
Open drainag	e	☐ rip-rap		☐ Parabolic			Top Width	:	
		Other:		☐ Other:			Bottom W	idth:	
☐ In-Stream		(applicable when co	allecting	samples)				·	
Flow Present?		Yes	[X]No	If No, Skip	to Section	. ·	· · · · · · · · · · · · · · · · · · ·		3
Flow Description (If present)			Moderate		. O BECHO				
<u> </u>	.ntitotis	ve Characterizat	tion	· · · · · · · · · · · · · · · · · · ·					· · · · · · · · · · · · · · · · · · ·
section 5. Qua	ve Characteriza	non	FIELD DATA FOR FL	OWING	OUTFALLS			*	
	ARAME	TER	1	RESULT			JNIT	EC	QUIPMENT
		Volume	<del> </del>			<del></del>	Liter		<u> </u>
□Flow #1		Time to fill	-			· · · · · · · ·	Sec		
		Flow depth					In		····
□ F1 95		Flow width	<u>0</u> , "		•	I	t, In		
☐Flow #2	М	leasured length	0' "			F	t, In		
	7	Γime of travel		·			Sec		
Γ	Cemperat	ure					°F		7
	pН					pН	Units	Tes	st strip/Probe
	Ammoni			-		,	nnn		Test strin

wing Outfalls Only  Owy?	in the flow in the	Section 4: Physical Indicators for Flowing Outfalls Only  Are Any Physical Indicators Present in the flow?   Yes Ano (If No, Skip to Section 5)	DESCR			See severity	☐ Suds	w tide	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls  Are physical indicators that are not related to flow present? $\square$ Yes $\square$ (No. Skip to Section 6)	CHECK if Present COMMENTS		☐ Oily ☐ Flow Line ☐ Paint ☐ Other: sediment and algae	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:		acterization	
Indicators for Flowing Outfalls Only   CHECK if   Present in the flow?   Yes   Kl-No		Section 4: Physical Are Any Physical Indic	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Notes: Potential tidal influence due to low tide	Section 5: Physical Are physical indicate	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	T Transport

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

Section 1: Ba	ckground	l Data							
Subwatershed:					Outfal	l ID:	P 52		
Today's date:	10	V5-10			Time	(Military):	/	·	
Investigators:	A	-min			Form	completed by:	, <u> </u>		·· <u>-</u>
Temperature (°)	F):		Rain	fall (in.): Last 24 hours: (	0 Last 48	hours: 0			
Latitutde: 235	8837.854	L	ngitude:		GPS U	Jnit:		GPS LMK #	:
Camera: Nikon					Photo	#s:	*-		
Land Use in Dr	ainage Area	(Check all that ap	ply):				<u> </u>		
Industrial				*	□Ор	en Space		÷	•
Ultra-Urban	Residential				☐ Ins	titutional			
Suburban Re	esidential				Other:	<u> </u>			· · · · · · · · · · · · · · · · · · ·
☐ Commercial	l				Knowi	ı Industries: _			
Notes (e.g, origonal section 2: Ou		····	crabs, Mi	nnows, vegetation along ca	anal is spai	rse, trash on si	de of canal, paper	and plastic.	
LOCATIO	NC	MATERI	AL .	SHA	\PE		DIMENSI	ONS (IN.)	SUBMERGED
<del></del>	Æ	LRCP [	СМР	Gircular	Single	:	Diameter/Dimen		In Water:
		]PVC [	] HDPE	☐ Eliptical	☐ Doubl	e	36"		□ No ▶ Partially
Closed Pipe	][	]-Steel		☐ Box	☐ Triple				Fully
/	[	Other:		☐ Other:	Other:				With Sediment:
				].					☐ Partially ☐ Fully
*		] Concrete				-		· · · · · · · · · · · · · · · · · · ·	
<b>(</b>	.	] Earthen		☐ Trapezoid			Depth:		
Open drainag		] rip-rap		Parabolic			Top Width:		
		] Other:		Other:			Bottom Width: _		
☐ In-Stream		pplicable when	ollecting	samples)		7			
Flow Present?		Yes	No 🔀	If No, Skip	to Saction		<u></u>	<u> </u>	<u> </u>
Flow Description (If present)	,	· .	Moderate		- ID SCCIO		<del></del>		T.L
Section 3: Qua	antitative	Characteriza	tion		•		***	:	
				FIELD DATA FOR FLO	OWING	OUTFALLS	<del></del>		
Р	ARAMETE	R		RESULT		<del></del>	NIT	EO	UIPMENT
□Flow#1	,	Volume		7-211.		<del></del>	iter	<del></del>	
	Ti	me to fill				5	Sec		
<del></del>	Fl	ow depth			-		In		
∏Flow #2	Fle	ow width	<u>ō</u> , "			F	t, In		
10W #Z	Meas	sured length	<u>0</u> ' "			F	i, In		<del></del>
,, <u>.</u> ,	Tim	e of travel					lec	,	······································
	Temperature						°F		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	рН					pН	Units	Tes	t strip/Probe
	Ammonia	•				p	pm		Test strip

two or more indicators     Cumant (me or more indicators with a second from	two or more indicators)   Suspect (one or more indicators with a severity of 3)								
Julikely Detential (presence of two or more indicators) Duspect (one or more indicators with a severity of 3) Devious									
☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3)									
Unlikely Detential (presence of two or more indicators)									
Unlikely Potential (presence of two or more indicators) Suspect (one or more indicators with a severity of 3)									
Unlikely									
Unlikely									
CHARACTY I COCHRIST (PIESERICE OF LWO OF HIGHERIOTS) L. SUSPECT (ONE OF MOFE INDICATORS WITH A SEVETTLY OF 3)									
CHILICELY									
Unlikely									
Unlikely Defential (presence of two or more indicators) Suspect (one or more indicators with a severity of 3)									
Unlikely Descriptian (presence of two or more indicators) Suspect (one or more indicators with a severity of 3)									
Unlikely Described (presence of two or more indicators) Suspect (one or more indicators with a severity of 3)									
Unlikely									
Unlikely     Potential (presence of two or more indicators)   Suspect (one or more indicators with a severity of 3)									
Unlikely     Potential (presence of two or more indicators)   Suspect (one or more indicators with a severity of 3)									
Unlikely $\square$ Potential (presence of two or more indicators) $\square$ Suspect (one or more indicators with a severity of 3)									
Unlikely     Potential (presence of two or more indicators)   Suspect (one or more indicators with a severity of 3)									
Unlikely     Potential (presence of two or more indicators)   Suspect (one or more indicators with a severity of 3)									
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☐ Oily ☐ Flow Line ☐ Paint ☐ Other: sediment and algae ☐ Excessive ☐ Inhibited ☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other: ☐ Brown ☐ Orange ☐ Green ☐ Other: ☐ Colors ☐ Colors ☐ Other: ☐ Brown ☐ Orange ☐ Green ☐ Other: ☐ Other: ☐ Color ☐ Other: ☐ Other: ☐ Color ☐ Orange ☐ Green ☐ Other: ☐ Oth	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:   sediment and algae     ☐ Excessive ☐ Inhibited ☐ Godors ☐ Colors ☐ Floatables ☐ Other: ☐ Suds ☐ Excessive Algae ☐ Other: ☐ Brown ☐ Orange ☐ Green ☐ Other: ☐ How or more indicators ☐ Suspect (one or more indicators with a severity of 3) ☐ Suspect (one or more indicators with a severity of 3) ☐ Suspect (one or more indicators with a severity of 3) ☐ Suspect (one or more indicators of 3) ☐ Suspect (one or								
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□ Oily       □ Flow Line       □ Paint       □ Other:       sediment and algae         □ Excessive       □ Inhibited       □ Oil Sheen       □ Odors       □ Colors       □ Floatables       □ Oil Sheen         □ Suds       □ Excessive Algae       □ Other:       □ Other:       □ Other:	Oily   Flow Line   Paint   Other:   Sediment and algae     Excessive   Inhibited   Odors   Colors   Floatables   Oil Sheen   Suds   Excessive Algae   Other:   Other:   Brown   Orange   Green   Other:   Other								
□ Oily       □ Flow Line       □ Paint       □ Other:       sediment and algae         □ Excessive       □ Inhibited       □ Other:       □ Other:         □ Suds       □ Excessive Algae       □ Other:         □ Brown       □ Orange       □ Other:         □ Brown       □ Orange       □ Other:	□ Oily □ Flow Line □ Paint □ Other:       □ Other:       sediment and algae         □ Excessive □ Inhibited       □ Other:       □ Other:         □ Suds □ Excessive Algae □ Other:       □ Other:         □ Brown □ Orange □ Green □ Other:       □ Other:         two or more indicators)       □ Susnect (one or more indicators with a severity of 3)								
Colly   Flow Line   Paint   Other:   Sediment and algae   Excessive   Inhibited   Gloors   Colors   Floatables   Other:   Suds   Excessive Algae   Other:   Brown   Orange   Green   Other:   Colors   Colors   Green   Other:   Colors	Colly   Flow Line   Paint   Other:   Sediment and algae   Excessive   Inhibited   Suds   Excessive Algae   Other:   Brown   Orange   Green   Other:   Other:   How or more indicators   Sushect (one or more indicators with a severity of 3)								
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Spalling, Cracking or Chipping	Spaling, Cracking or Chipping   Peeling Paint     Corrosion   Corrosion   Salaber   Corrosion     Corrosion   Color   Paint   Cother:   Sediment and algae     Excessive   Inhibited   Colors   Floatables   Cother:   Colors   Excessive Algae   Cother:   Cother   Cother:   Cother   Cother:   Cother   Cother:   Cother   Cother:   Cothe								
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Spalling, Cracking or Chipping   Peeling Paint   Corrosion   Society   Flow Line   Paint   Other:   Sediment and algae   Excessive   Inhibited   Suds   Excessive Algae   Other:   Suds   Excessive Algae   Other:   Other:   Suds   Corange   Green   Other:   Corange   Green   Other:   Corange   Green   Other:   Corange   Green   Corange   Corang	Spalling, Cracking or Chipping								
□ Spalling, Cracking or Chipping       □ Peeling Paint         □ Corrosion       □ Oily         □ Dily       □ Flow Line         □ Excessive       □ Inhibited         □ Odors       □ Colors         □ Suds       □ Excessive Algae         □ Brown       □ Orange         □ Brown       □ Other:	□ Spalling, Cracking or Chipping       □ Peeling Paint       □ Sediment and algae         □ Oily       □ Flow Line       □ Paint       □ Other:       sediment and algae         □ Excessive       □ Inhibited       □ Other:       sediment and algae         □ Odors       □ Colors       □ Floatables       □ Other:         □ Suds       □ Excessive Algae       □ Other:         □ Brown       □ Orange       □ Other:         □ Wo or more indicators)       □ Susnect (one or more indicators with a severity of 3)								
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Spalling, Cracking or Chipping	Spalling, Cracking or Chipping								
Spalling, Cracking or Chipping	Spalling, Cracking or Chipping								
Spalling, Cracking or Chipping   Peeling Paint   Corrosion   Corrosion   Corrosion   Corrosion   Corrosion   Coliy   Flow Line   Paint   Cother:   Sediment and algae   Cother   Coth	Spalling, Cracking or Chipping   Peeling Paint   Corrosion   Corrosion   Excessive   Inhibited   Brown   Orange   Green   Other:   Brown   Orange   Green   Other:   Chipping   Susher (one or more indicators)   Susher (one or more indicators with a severity of 3)   Colors   Colors   Chipping   C								
Spalling, Cracking or Chipping   Pecling Paint   Corrosion   Corrosion   Excessive   Inhibited   Suds   Excessive Algae   Other:   Suds   Excessive Algae   Other:   Other:   Suds   Corrosion   Cor	Spalling, Cracking or Chipping   Peeling Paint   Corrosion   Corrosion   Corrosion   Corrosion   Corrosion   Corrosion   Colors   Inhibited   Codors   Col								
Spalling, Cracking or Chipping   Peeling Paint   Corrosion     Corrosion   Corrosion   Colors   Paint   Cother:   Sediment and algae     Codors   Colors   Floatables   Cother:   Colors   Excessive Algae   Cother:	Spalling, Cracking or Chipping								
Spalling, Cracking or Chipping   Peeling Paint   Corrosion   Corrosion   Spalling, Cracking or Chipping   Peeling Paint   Corrosion   Stock   Paint   Cother:   Sediment and algae   Cotok   Cotok   Paint   Cother:   Cotok	Spalling, Cracking or Chipping   Peeling Paint   Corrosion     Corrosion   Corrosion   Cother:   Sediment and algae     Cotrosion   Cother:   Sediment and algae   Cother:   Cother:   Cotors   Cother:   Cotors   Cotors   Cother:   Cotors   Cotors   Cother:   Cotors   Cotors   Cother:   Cotors   Cother:   Cotors   Cother:   Cotors   Cother:   C								
Spalling, Cracking or Chipping   Peeling Paint   Corrosion	Spalling, Cracking or Chipping   Peeling Paint   Corrosion   Corrosion   Excessive   Inhibited   Shown   Orange   Green   Other:   Shown   Orange   Green   Other:   Other:   Charact (one or more indicators)   Susnect (one or more indicators with a severity of 3)   Corrosion   Colors   Col								
Spalling, Cracking or Chipping   Peeling Paint   Corrosion   Corrosion   Corrosion   Corrosion   Corrosion   Coliy   Flow Line   Paint   Other:   Sediment and algae   Colors   Floatables   Other:   Colors   Excessive Algae   Other:   Colors   C	Spalling, Cracking or Chipping								
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Ow present?   Yes KNo (If No, Skip to Section 6)    Description   Desc	Ow present?   Yes KNo (If No, Skip to Section 6)   DESCRIPTION								
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Spalling, Cracking or Chipping   Description	Spatling, Cracking or Chipping   Description								
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Spalling, Cracking or Chipping	Spalling, Cracking or Chipping								
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Spalling, Cracking or Chipping	Spalling, Cracking or Chipping								
Spalling, Cracking or Chipping	Spalling, Cracking or Chipping								
Spalling, Cracking or Chipping   Peeling Paint   Spalling, Cracking or Chipping   Peeling Paint   Corrosion   Corrosion   Description   Corrosion   Corrosion   Colors   Col	Spalling, Cracking or Chipping   Peeling Paint   Storessive Algae   Colors   Color								
Spalling, Cracking or Chipping   Peeling Paint   Corrosion	Spalling, Cracking or Chipping   Description								
Spalling, Cracking on tfalls   Description	ing and Non-Flowing Outfalls    Owe present?								
Spalling, Cracking or Chipping	Spalling, Cracking or Chipping   Description								
Spalling, Cracking or Chipping	Spalling, Cracking on Chipping   Peeling Paint   Corrosion								
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Spalling, Cracking or Chipping	Spalling, Cracking or Chipping   Peeling Paint   Corrosion								
ring and Non-Flowing Outfalls  low present?	ring and Non-Flowing Outfalls  low present?								
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ing and Non-Flowing Outfalls  low present? Yes \( \mathbb{C}\) No (If No, Skip to Section 6)    Description   Desc	ring and Non-Flowing Outfalls  low present?								
Spalling, Cracking or Chipping   Description	Spalling, Cracking or Chipping   Description 6								
ring and Non-Flowing Outfalls  low present?	Spalling, Cracking or Chipping   Description								
Spatling, Cracking or Chipping	Corrosion   Colors								
Spalling, Cracking or Chipping   Description	Spatling Cracking Outfalls   Description								
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Spatling, Cracking or Chipping   Corrosion   Colors   C	ring and Non-Flowing Outfalls    Jow present?								
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Spating, Cracking or Chipping   Section 6    Comments	ring and Non-Flowing Outfalls  low present?								
Spating, Cracking or Chipping   Section 6    Comments	ring and Non-Flowing Outfalls  low present?								
ring and Non-Flowing Outfalls  low present?	ring and Non-Flowing Outfalls  low present?								
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Spating, Cracking or Chipping   Section 6    Comments	ring and Non-Flowing Outfalls  low present?								
Spating, Cracking or Chipping   Section 6    Comments	ring and Non-Flowing Outfalls  low present?								
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Spating Cracking Outfalls   Comments   Comments	Spating Cracking or Chipping   Corrosion   Comments								
Spating Cracking Outfalls   Comments   Comments	Spating Cracking or Chipping   Corrosion   Comments								
Spating Cracking Outfalls   Comments   Comments	Spating Cracking or Chipping   Corrosion   Comments								
Spating Cracking Outfalls   Comments   Comments	Spating Cracking or Chipping   Corrosion   Comments								
Spating, Cracking or Chipping   Section 6    Comments	ring and Non-Flowing Outfalls  low present?								
Substical Indicators for Both Flowing and Non-Flowing Outfalls  Substical Indicators that are not related to flow present?	ring and Non-Flowing Outfalls  low present?								
ring and Non-Flowing Outfalls  low present?	Spalling, Cracking or Chipping   Description								
ring and Non-Flowing Outfalls  low present?	ring and Non-Flowing Outfalls  low present?								
ring and Non-Flowing Outfalls  low present? □ Yes ◯ No (If No, Skip to Section 6)  □ Spalling, Cracking or Chipping □ Pecling Paint □ Other: sediment and algae □ Corrosion □ Excessive □ Inhibited □ Odors □ Colors □ Floatables □ Other: sediment and algae □ Suds □ Excessive Algae □ Other: □ Other: □ Other: □ Suds □ Excessive □ Other: □	ring and Non-Flowing Outfalls  low present?								
ring and Non-Flowing Outfalls  low present? □ Yes ◯ No (If No. Skip to Section 6)  DESCRIPTION  □ Spalling, Cracking or Chipping □ Peeling Paint □ Corrosion □ Oily □ Flow Line □ Paint □ Other: sediment and algae □ Colors □ Colors □ Floatables □ Oil Sheen □ Shuds □ Excessive Algae □ Other: □ Other: □ Shuds □ Crange □ Other: □ Other: □ Shuds □ Crange □ Other: □ Other: □ Colors □ Other: □ Colors □ Other: □ Colors □ Other: □ Colors □ Colors □ Other: □ Colors □	ring and Non-Flowing Outfalls  low present? □ Yes ◯ No  DESCRIPTION  □ Spalling, Cracking or Chipping □ Pecling Paint □ Corrosion □ Oily □ Flow Line □ Paint □ Other: □ Suds □ Colors □ Floatables □ Oils Sheen □ Brown □ Orange □ Green □ Other: □ Brown □ Orange □ Green □ Other: □ Brown □ Orange □ Green □ Other: □ Brown □ Orange □ Green □ Other: □ Brown □ Orange □ Green □ Other:								
ring and Non-Flowing Outfalls    Spalling, Cracking or Chipping   Description	ring and Non-Flowing Outfalls    Corrosion   Corrosion   Colors								
ring and Non-Flowing Outfalls    Non-Flowing Outfalls   Spatial Corrosion   Spatial Corrosion   Control Corrosion   Colors   Colo	ring and Non-Flowing Outfalls    Non-Flowing Outfalls   Section 6    Spalling, Cracking or Chipping   Description								
rtoleum (oil sheen)	roleum (oil sheen)								
ring and Non-Flowing Outfalls  low present?	rtoleum (oil sheen)								
ring and Non-Flowing Outfalls  low present?	ring and Non-Flowing Outfalls  low present?								

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

Section 1: Bac	kgrou	nd Data		·				
Subwatershed:					Outfall ID:	P52		
Today's date:	10-	-5-10			Time (Military):			,
Investigators:	R	- MIN			Form completed I	oy:		
Temperature (°F	):	•	Rain	fall (in.): Last 24 hours; (	Last 48 hours: 0			
Latitutde: 2358	837.854	Lo	ngitude:		GPS Unit:		GPS LMK #	:
Camera: Nikon-					Photo #s:		<del>-</del>	
Land Use in Dra	inage Ar	ea (Check all that ap	ply):	-				
☐ Industrial					Open Space		•	
☐ Ultra-Urban I	Residenti	ial			☐ Institutional			
Suburban Res	sidential			,	Other:			
Commercial					Known Industries	:		
Section 2: Out		·	craos, ivii	nnows, vegetation along ca	anai is sparse, trash of	i side of canal, paper	and plastic.	
LOCATIO	N	MATERI	AL .	SHA	\PE	DIMENSI	ONS (IN.)	SUBMERGED
,		Marcp [	] CMP	区 Circular	Single	Diameter/Dimer	sions:	In Water:
		□ PVC □	] HDPE	☐ Eliptical	☐ Double	/>	<del></del>	☐ Partially ☐ Fully
Closed Pipe		☐ Steel		□Box	☐ Triple			With Sediment:
,		☐ Other:		☐ Other:	Other:			No ☐ Partially
								Fully
		☐ Concrete		☐ Trapezoid		Donth		
П <b>о</b> д		☐ Earthen		_	•	Depth:		
Open drainag	е	☐ rip-rap		☐ Parabolic		Top Width:		
		Other:		Other:		Bottom Width:		
☐ In-Stream		(applicable when	collecting	samples)				And the section of the contract of the section of the section of
Flow Present?		☐ Yes	Æ[Ño	If No, Skip	to Section 5	•		
Flow Description (If present)		Trickle	Moderate	e ☐ Substantial				
Section 3: Qua	ntitati	ve Characteriz	tion					
				FIELD DATA FOR FL	OWING OUTFALL	S	<b>*</b>	
· . P/	ARAME	TER		RESULT		UNIT	EC	UIPMENT
□Flow #I		Volume				Liter		
		Time to fill		·		Sec		
		Flow depth				In		
□Flow #2		Flow width	0, ,	·		Ft, In		
		Measured length	0, ,	,		Ft, In		
		Time of travel	<del> </del>			Sec		<u></u>
η	emperat	ture	<del> </del>			°F		
	pН		+		<u> </u>	pH Units		st strip/Probe
	Ammon	ia ·	1 .			ppm		Test strip

	i	om a	e in		clear ii floating											
	(1-3)	3 – Noticeable from a distance	3 ~ Clearly visible in outfall flow	3 - Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)			S								
	RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	2 – Clearly visible in sample bottle	2-Cloudy	☐ 2 – Some, indications of origin (e.g., possible suds or oil sheen)		·	COMMENTS		nd algae					f3)	-
	REL		ors in tle	udiness	it; origin					sediment and algae		<u>.</u>			severity o	
		☐ 1 — Faint	☐ 1 – Faint colors in sample bottle	1 – Slight cloudiness	1 – Few/slight; origin		ion 6)					: :			dicators with a	
ction 5)			llow er:				(If No, Skip to Section 6)	TION	Peeling Paint	Other:		ables Oil Sheen	ın 🔲 Other:		Suspect (one or more indicators with a severity of 3)	
(If No, Skip to Section 5)	N.	:um/gas	☐ Yellow					DESCRIPTION	hipping	☐ Paint		☐ Floatables Algae	Green		⊃ Suspec	
(If N	DESCRIPTION	ur 🔲 Petroleum/gas	Gray	See severity	Suds		ring Outfa   Yes □		Spalling, Cracking or Chipping Corrosion	☐ Flow Line	☐ Inhibited	☐ Colors ☐ Excessive Algae	Orange		tors)	
tfalls Only Yes	1	Rancid/sour	☐ Brown ☐ Orange		Sewage (Toilet Paper, etc.)		and Non-Flow resent?		Spalling, C	□ Oily □ F	☐ Excessive	Odors Suds	☐ Brown		or more indica	
wing Outfa		Sewage Sulfide	Clear		Sewage (		h Flowing : ted to flow p	resent	:					zation	nce of two	
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?   Yes	CHECK if Present					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?	CHECK if Present						Section 6: Overall Outfall Characterization	Potential (presence of two or more indicators)	
Physical In	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	ntial tidal influer	Physical Inc	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Overall Out		
Section 4: Are Any Ph	INDIC	ŏ 	Co	Turb	Float Does Nc- Tra:	Notes: Poter	Section 5: Are physic	IND	Outfal	Depoi	Abnorma	Poor p	Pipe ber	Section 6:	Unlikely	

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

Section 1: Bac	ckgrou	nd Data							
Subwatershed:	-				Outfal	1 ID:	52		
Today's date:	10	1-5-16			Time	(Military):			
Investigators:	$\mathcal{L}$	- MIN			Form	completed by:			
Temperature (°F	·):		Rainf	all (in.): Last 24 hours: (	) Last 48	hours: 0			
Latitutde: 2358	8837.854	Lon	gitude:		GPS U	Jnit:		GPS LMK #	:
Camera: Nikon-					Photo	#s:	····	<u> </u>	
Land Use in Dra	inage Ar	ea (Check all that app	ly):	•					
Industrial					□Ор	en Space	-		
Ultra-Urban I	Residenti	ial			☐ Ins	titutional			
Suburban Re	sidential				Other:	•	·		<del>-</del>
☐ Commercial					Know	n Industries:			*. 
Notes (e.g, orig		escription	·····	nnows, vegetation along ca	anal is spa		de of canal, paper	and plastic.	
LOCATIO	N	MATERIA	L .	SH/			DIMENSIO	ONS (IN.)	SUBMERGED
		ÆRCP □	CMP	∕ <b>∐</b> Circular	<b>K</b> (Single	;	Diameter/Dimen	sions:	In Water:
		□ PVC □	HDPE	☐ Eliptical	Doubl	e		<del></del>	Partially Fully
Closed Pipe		☐ Steel		Вох	☐ Triple				With Sediment:
		☐ Other:		Other:	Other	*******	•		⊠ No ☐ Partially ☐ Fully
		Concrete	٠	Trapezoid			Dandha		
		Earthen					Depth:		
Open drainag	e	rip-rap		Parabolic			Top Width:	_	
·		☐ Other:		☐ Other:			Bottom Width: _		
☐ In-Stream		(applicable when co	ollecting	samples)		· 'a .			
Flow Present?		☐ Yes	☑ No	If No, Skip	to Sectio	n 5		· · · · · · · · · · · · · · · · · · ·	
Flow Description (If present)			Moderate	<del> </del>					
Section 3: Oua	ntitati	ve Characteriza	ion						
	,	· · · · · · · · · · · · · · · · · · ·		FIELD DATA FOR FL	OWING	OUTFALLS			
P	ARAME	TER		RESULT		U	NIT	EQ	UIPMENT
□Flow #1		Volume				. I	iter		
		Time to fill			• "		Sec		
		Flow depth					In		
☐Flow #2		Flow width	0, "	,	_	F	t, In		
LJI IVTI TZ	M	leasured length	0, "			F	t, In		
	1	l'ime of travel				, ,	Sec		,
	remperat	ure					°F		
	pН					pН	Units	Tes	t strip/Probe
	Ammoni	ia				. р	pm	•	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	ndicators for Flo	owing Outfalls O	0 N C	(If No, Skip to Section 5)			
INDICATOR	CHECK if Present		DESCRIPTION		REL	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Petroleum/gas ☐ 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 in sample bottle	2 - Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity			See severity		☐ 1 — Slight cloudiness	2 - Cloudy	3 - Opaque
Floatables -Does Noi Include Trash!!		Sewage (Toilet Paper, etc.)	st Paper, etc.) Suds sheen) Other:		□ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	ence due to low tide						
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	idicators for Bot s that are not relat	th Flowing and ]	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	(Jf No, Skip to Section 6)	(9 uo		
INDICATOR	CHECK if Present	Present	_	DESCRIPTION		COMMENTS	S
Outfall Damage			Spalling, Cracking or Chipping Corrosion	oping   Peeling Paint			
Deposits/Stains			Oily   Flow Line	☐ Paint ☐ Other:	sediment and algae	nd algae	
Abnormal Vegetation			☐ Excessive ☐ Inhibited				
Poor pool quality			☐ Odors ☐ Colors ☐ Suds ☐ Excessive Algae	☐ Floatables ☐ Oil Sheen Algae ☐ Other:			
Pipe benthic growth			☐ Brown ☐ Orange	Green Other:			
Section 6: Overall Outfall Characterization	ıtfall Characteri	ization					

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

Potential (presence of two or more indicators)

Unlikely

□ Obvious

☐ Suspect (one or more indicators with a severity of 3)