

**ENVIRONMENTAL MANAGEMENT AND
CONSTRUCTION PLAN**

**STATE OF NEW YORK PUBLIC SERVICE COMMISSION
CASE NO. 08-T-1388**

**Long Island Power Authority – Certificate of Environmental
Compatibility and Public Need to Install a Second 138kV Cable in
the Certified Underground Conduit from the Riverhead Substation
to the Canal Substation**

ATTACHMENT 7 – PSEG Long Island SOP EG-706

*Prepared by PSEG Long Island LLC on behalf of and as agent for the Long Island
Lighting Company d/b/a LIPA*

December 2019

Excavation Dewatering

This document shall be revised every **3** years or incrementally as significant changes occur.

This document is for PSEG LI internal use only and is the intellectual property of LIPA

REVISION HISTORY

Controlled electronic copies of all revisions will be retained with the PSEG Long Island Operations Manual

Is LIPA Approver sign-off required for this document? YES NO

Version	Description of Change	PSEG LI Approver and Title	LIPA Approver and Title	Revision Date
Original	Complete Revision	Wei Chiang, Manager, Environmental Compliance	---	8/29/2014
Rev. 1	General Update; PSEG Long Island Format	Wei Chiang, Manager, Environmental Compliance	---	2/23/2017
Rev. 1.1	Minor Edits	Wei Chiang, Manager, Environmental Compliance	---	3/10/2017

	
Approved by Wei Chiang Date 3/10/2017	Approved by _____ Date _____

This document shall be revised every **3** years or incrementally as significant changes occur.

This document is for PSEG LI internal use only and is the intellectual property of LIPA

TABLE OF CONTENTS

1. OPERATIONS MANUAL DOCUMENT HIERARCHY.....	4
2. PURPOSE	4
3. APPLICABILITY	4
4. RESPONSIBILITIES.....	4
5. PROCEDURE	5
6. DOCUMENTATION	9
7. REFERENCES	9
8. TERMS AND DEFINITIONS.....	9
9. ATTACHMENTS.....	9

This document shall be revised every **3** years or incrementally as significant changes occur.

This document is for PSEG LI internal use only and is the intellectual property of LIPA

1. OPERATIONS MANUAL DOCUMENT HIERARCHY

The PSEG Long Island Operations Manual is composed of 5 levels of documents:

- **Core Functions.** Core Functions define the functional areas of the Operations Manual that are critical to the operation of the Utility. They list and briefly describe the major processes contained in their portion of the Operations Manual.
- **Processes / Sub-Processes.** Processes and Sub-Processes define the way we work within or across functions. They describe a series of steps performed in bringing about an end result. Processes document “what” must be completed to ensure the end result is achieved.
- **Procedures.** Procedures describe a way of performing or affecting a process step, or a series of process steps taken to accomplish an end. Procedures document “how” tasks are completed to ensure the step in a Process or an end result is achieved.
- **Technical Manuals.** Technical Manuals document specific instructions and required parts for the installation, operation, and maintenance of a piece of equipment, machine, process, or system.
- **Job Hazard Analyses (JHA).** Job Hazard Analyses (JHAs) document the identified risks or hazards of a specific job in the workplace, and the measures to eliminate or control those hazards. The JHA document is used in the workplace or at the job site to guide workers in safe job performance.

2. PURPOSE

The purpose of this procedure is to document the steps to dewater excavations, while reducing the potential discharge of sediment to surface waters or sewer systems.

3. APPLICABILITY

This guidance document applies to the handling of water from all excavations dug by PSEG Long Island or its contractors during routine/operational maintenance and construction of underground utilities. It does not apply to large construction projects for which individual permits or approvals for dewatering have been obtained. For this type of work, refer to the procedures and best management practices described in EP No. 3 and its associated EGs.

This document shall be revised every **3** years or incrementally as significant changes occur.

This document is for PSEG LI internal use only and is the intellectual property of LIPA

4. RESPONSIBILITIES

4.1 Vice President, T&D Operations

The Vice President, T&D Operations provides governance over this procedure.

4.2 Director, T&D Services

The Director, T&D Services provides oversight of this procedure.

4.3 Manager, Environmental Compliance

The Manager, Environmental Compliance provides support to the actions underlined in this procedure.

4.4 Analysts, Field Coordinators, and Environmental Specialists

The Analysts, Field Coordinators, and Environmental Specialists are responsible for overseeing this procedure to assure regulatory compliance and sustaining PSEG Long Island policies. Operations personnel are responsible for execution of the actions outlined in this guidance.

5. PROCEDURE

Release of sediment or dirt into catch basins, sewers, or surface water and wetlands is prohibited in order to protect the environment as prescribed by federal, state and local regulatory agencies throughout our operating regions. Release of sediment with water into sewer works is also prohibited by local public works departments and water treatment facilities so as to preserve the operational integrity of their systems.

Water found in all excavations must be assessed for obvious signs of contamination (e.g., discoloration, odor, floating oil liquids from broken gas mains or sewer pipes, etc.) prior to discharge. If obvious signs of contamination are present, water cannot be pumped onto the ground or into catch basins, sewer systems, retention ponds, or surface water bodies. If obvious signs of contamination are encountered in any excavation, contact your Environmental Compliance for further instructions. Water exhibiting signs of contamination will typically need to be managed by a contractor for proper off-site disposal.

If the assessment shows NO evidence of contamination, best management practices (BMPs) still need to be followed in order to avoid pumping sediment-laden water from the excavation. One or more of the procedures described below must be utilized when pumping water from excavations. The BMP(s) selected must be monitored for effectiveness in

This document shall be revised every **3** years or incrementally as significant changes occur.

avoiding the discharge of sediment and, if they are ineffective, additional or different BMPs must be used:

- The first choice is to pump water with no obvious signs of contamination to upland and unpaved area where it can infiltrate without creating runoff. Although situations where this practice can be followed will be uncommon, it should be the first alternative evaluated;
- Avoid pumping sediment-laden water from the excavation by constructing an effective sump at the base of the excavation where the pump would be placed. An effective sump would be gravel-lined and result in infiltration so as to eliminate the need to discharge sediment laded water from the excavation;
- Use filter fabric over storm drains and sewer inlets prior to discharging any water to them (see Figure 1);
- Protect all surface waters and wetlands from sediment by using straw bales and a silt fence between the excavation and the body of water or wetland (see Figure 2);
- Use a filter bag/sock or pump box at the discharge end of the dewatering pump hose to capture sediment (see Figure 3); or
- For large projects, construct a dewatering pit using straw bales and filter fabric to filter the water prior to discharge (see Figure 4).
- For excessive water handling, consider renting a mobile settling tank (frac tank).

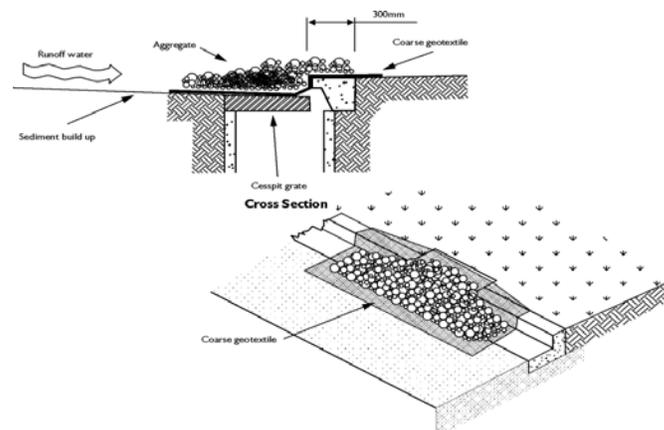


Figure 1 – Filter Fabric Over Storm Drains and Sewer Inlets

This document shall be revised every **3** years or incrementally as significant changes occur.

This document is for PSEG LI internal use only and is the intellectual property of LIPA

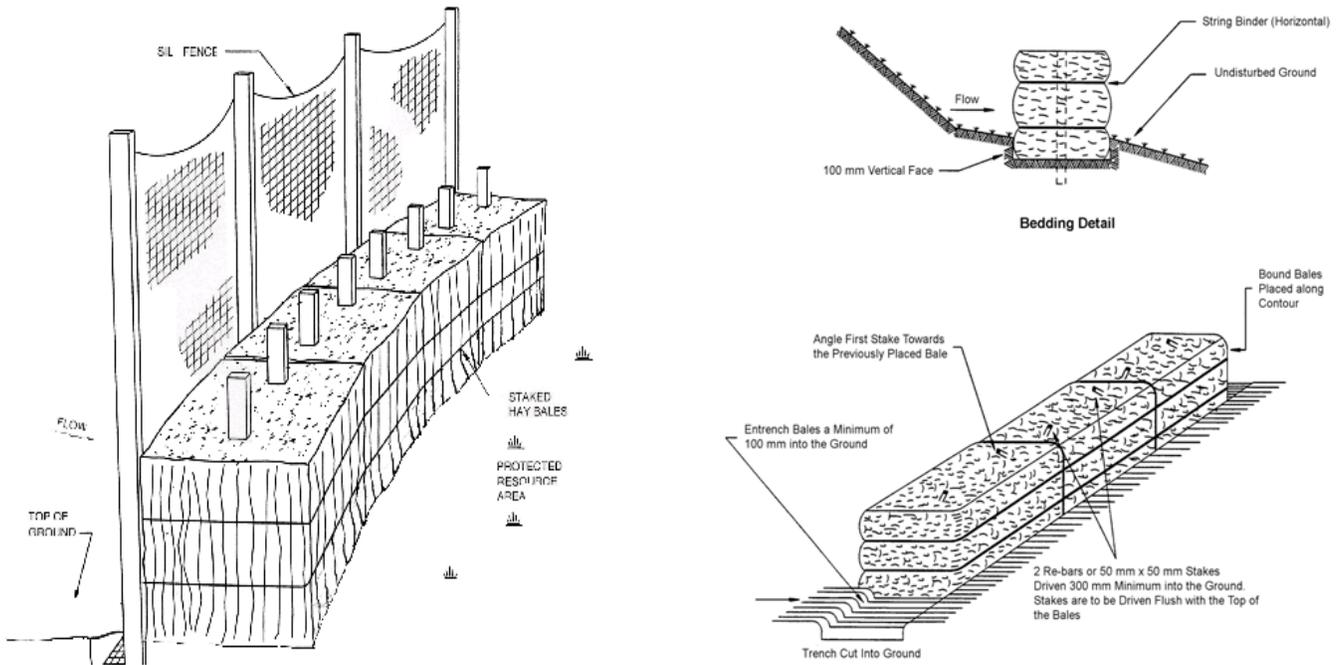


Figure 2 – Examples of Straw Bale/Slit Fence Barrier and Straw Bale Dike

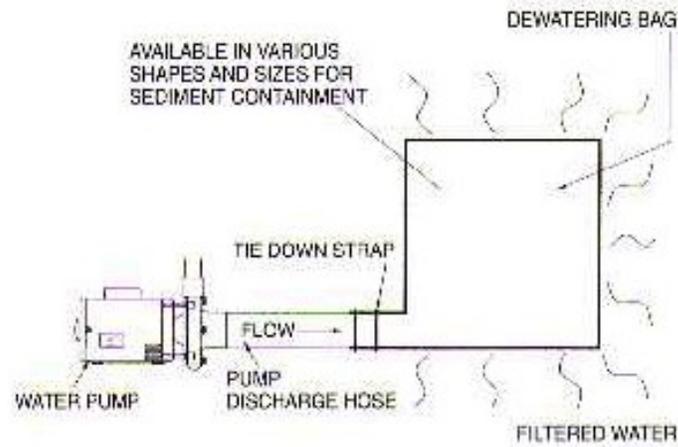


Figure 3 – Example of Filter Stock or Filter Bag Use

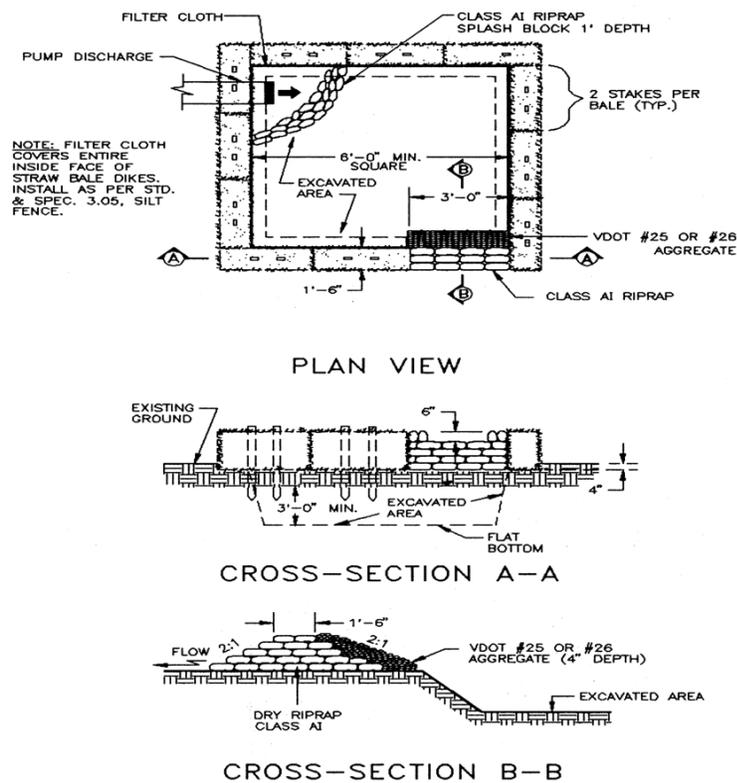


Figure 4 – Example of Dewatering Pit Design

This document shall be revised every **3** years or incrementally as significant changes occur.

This document is for PSEG LI internal use only and is the intellectual property of LIPA

NOTE:

If you have any questions regarding how to obtain materials used in the above water management practices, contact Environmental Compliance.

6. DOCUMENTATION

N/A

7. REFERENCES

- 1) EP No. 7, "Water and Waste Water Management"

8. TERMS AND DEFINITIONS

- 1) BMP – Best Management Practice
- 2) EG – Environmental Guidance
- 3) EP – Environmental Procedure

9. ATTACHMENTS

None