



PUBLIC WORKS DEPARTMENT  
**WATER RESOURCES DIVISION**

# **SEWER LATERAL INSPECTION PROGRAM PLUMBER CERTIFICATION AND RECERTIFICATION COURSE**

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For informational purposes only, does not replace course participation

# Housekeeping

- Your attendance is required for the entire presentation
- You must check-in to receive credit
- The course is required for the inspector, the person submitting the inspection, and the person calling out defects
- Participation in this certification course is only for CCTV Inspections; you are not being certified for repairs

## Training Objectives

- Review Scope and Intent of the City's SLIP Program
- Review of the City's SLIP Procedure
- Standards for Video Inspection
- Review the Repair and Site Inspection Process



# SLIP PROGRAM INTRODUCTION

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## Poll Question

How often must you complete this course?

- A. Only Once
- B. When there are changes to the SLIP program
- C. Annually
- D. Every 5 years

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# SLIP History

- Developed in 2007 to address failing laterals and increase public awareness of the need to maintain private laterals.
- Sewer Lateral Inspection Program (SLIP) is incorporated into the Santa Barbara Municipal Code.
- SLIP continues to improve and change based on community needs.



# Inspection Triggers for SLIP

## Residential Properties

- Permit Initiated
  - Addition of 400sf, or
  - Addition of two (2) or more new fixtures
- Defect observed during City main inspections
- Private Lateral Spill



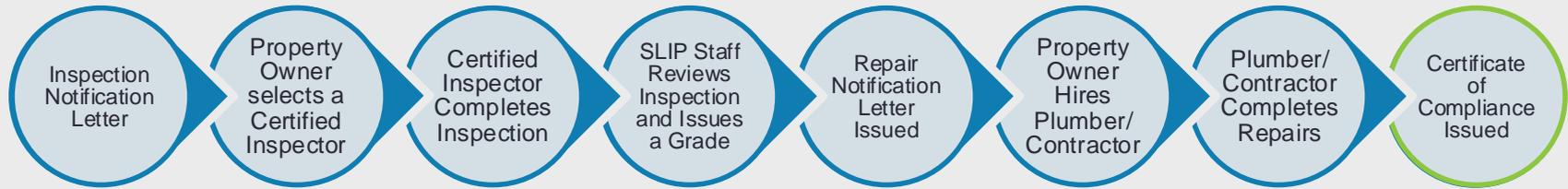
## Commercial Properties

- 15 year re-inspection frequency
  - Required every 15 years regardless of condition
- Private Lateral Spill
- NOTE: often multiple laterals on a commercial property





# SLIP Process



Plumber submits video with defects identified/ labeled

SLIP Team provides guidance on repair options and owner selects a repair option

90 days to submit video\*

180 days to make repairs\*

\*Extensions may be approved on a case by case basis

# SLIP INSPECTION AND INSPECTION SUBMISSION STANDARDS & REQUIREMENTS

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## Poll Question

Who must complete this course?

- A. CCTV Inspector
- B. Person submitting inspections on forward lateral
- C. Both the inspector and the person submitting via Forward Lateral
- D. As long as one of the above attends, we can submit inspections

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# City CCTV Standards and Requirements

Inspection Video should:

- Panoramic before/after entering lateral
- Be clear
- Have Sufficient Light
- Be in color
- Speed less than 20 Ft. Per Minute
- Minimum 5 Seconds Pause at Defects
- Commercial Properties: inspect for multiple laterals
- **Recommendation:** Start inspection at the City main
- Standards and Requirements found on the SLIP's Website



# Inspection Submission

## Inspection Video submitted via Forward Lateral

- Complete the “Inspection Form” questions, include lateral ID
- Draw the **correct waypoints/alignment** of lateral
- Mark observations and code defects
- Once submitted, property owner is immediately notified
- **Must** include the property owners email address or video **will be rejected**
  - if owner doesn't have email, state in “inspector notes”
- Video must be submitted within 60 days



# Forward Lateral Submission

## Example Inspection Form, Project Type & Observations



All Projects  All Statuses

All Projects

- City of Santa Barbara - Sewer Lateral Inspection Program (SLIP)
- City of Santa Barbara - Video Assistance Program (VAP)
- City of Santa Barbara - Desal Link Project

8/07/2015

29 ft 1 in

60.50/134.12

2x    Mark Observation

**Inspector Observation #1**

Time	Distance	Observation Code
<input type="text" value="12.22"/>	<input type="text" value="32"/>	<input type="text" value="Collapse"/>

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**Inspector Observation #2**

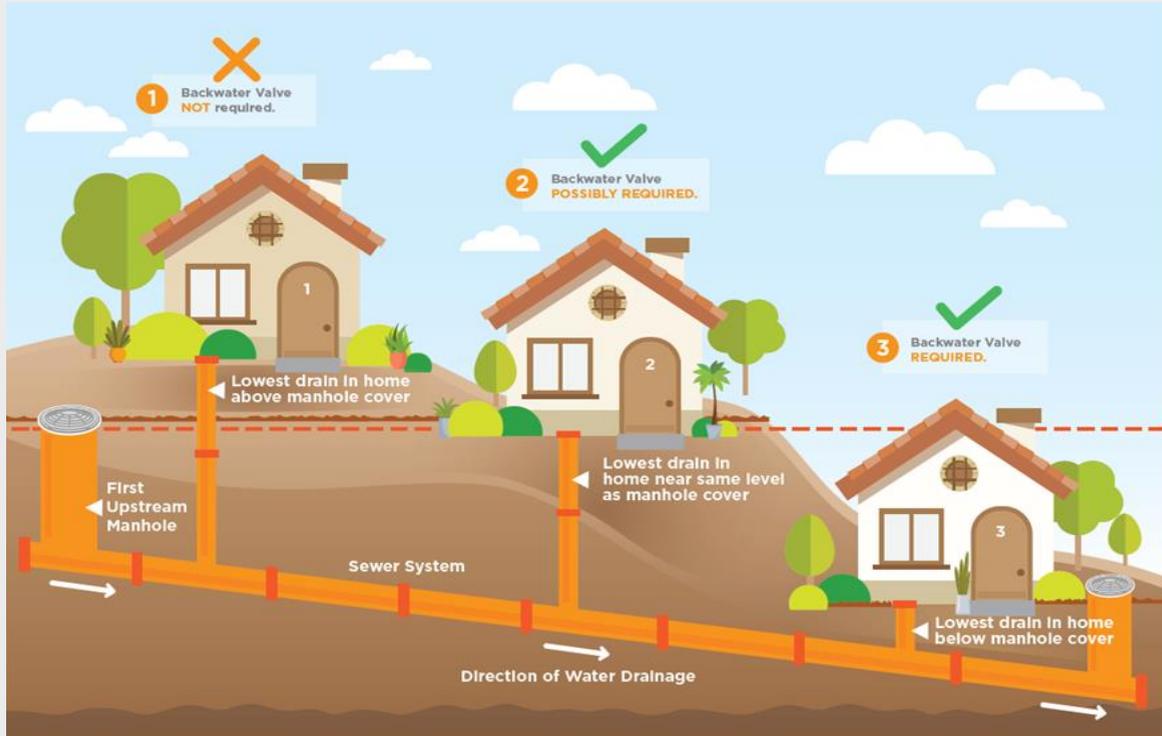
Time	Distance	Observation Code
<input type="text" value="60.50"/>	<input type="text" value="ft I"/>	<input type="text" value="Select code"/>

## Inspection Form & Observations : Roof Drains



While on-site, check for illegal connections (we rely on YOU for field conditions)

## Inspection Form & Observation: Backwater Valves



We rely on YOU for field conditions

Backwater Valve installation requires a BLD permit

# Inspection Submission

## If you have not used Forward Lateral before:

- Visit [www.goForwardLateral.com](http://www.goForwardLateral.com) to see a video tutorial on how to upload videos
- Contact staff at [SLIP@SantaBarbaraCA.gov](mailto:SLIP@SantaBarbaraCA.gov) with any other questions
- Or fill out the “Contact” form on Forward Lateral’s website to contact their staff



# Reasons CCTV Video Inspection Rejected

- No panoramic
- Speed: moving thru the lateral too fast
- Missing Footage Counter
- Light Intensity Is Too Low
- Dirty/Smudged Lens
- Video Camera Not Centered (Camera Needs to be on a Skid)
- Inspection didn't include wye connection
- Waypoints/alignment not correct
- Property Owner's email address not included in Forward Lateral
- 3 or more defects not coded

# Functional Inspection vs SLIP Inspection



## Functional:

- Plumber may say the lateral is “functional”, “working properly”, “conveying sewage”, etc. but that does not mean it is structurally sound, properly maintained or free from defects.



## Properly Maintained:

- Private laterals must be maintained continuously and satisfactorily (SBMC 14.44.160)
  - Free from defects (cracks, roots, offset joints, broken pipe)

## Potential Issues

- Shared Laterals: Complete the inspection and add note that the lateral is shared, include other address if possible.
- Inactive Laterals: must provide verification of inactive/abandoned laterals in writing
- Real Estate Transactions: Follow SLIP Guidelines and transparency with Specific Structural Soundness vs. Condition Generalization (Functional).
- Septic Tanks: Same inspection requirements as laterals.

# Inspection Standards

- **City codes defects based on NASSCO Standards**
  - Lateral Assessment Certification Program (LACP) defect codes are used for inspections
  - Provides consistent CCTV inspection results
- SLIP Team is **NASSCO** certified
  - Any SLIP Team member will rate a lateral the same



**NASSCO**  
NATIONAL ASSOCIATION OF  
SEWER SERVICE COMPANIES

## Benefits of LACP on Laterals

- Improves quality and consistency of lateral condition assessment
- Measures the sewer lateral condition; detects changes in pipe condition
- Rating for structural and O&M defects
- Considers total number of pipe defects within pipe, not just depth, age, soil and surface condition
- Use same standard on public sewer mains

# CONDITION RATING SCALE

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## SLIP Condition Rating Scale (CRS)

- Modeled after the National Association of Sewer Services Companies' (NASSCO) Lateral Assessment Certification Program
  - SLIP staff are all certified through NASSCO
- NASSCO standards are used by the City's Wastewater Collection System to monitor and maintain the public wastewater system.
- SLIP Condition Rating Scale is modeled by the NASSCO scale and is used to rate sewer laterals including the connection

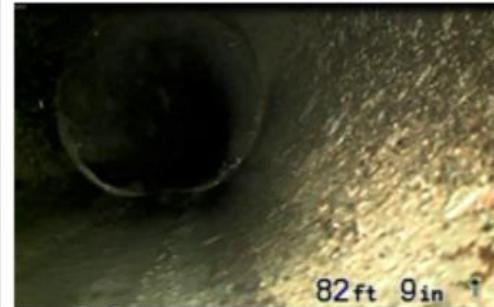


## Condition Rating Scale (CRS)

- Scale of 1-5
- 5 being the most severe defect, requiring accelerated or immediate repairs
- 1 being a minor defect, which can be monitored over time before repairs are needed.



**Defect C: Large offset with roots at 65 feet.**



**Defect G: Roots Fine Joint at 83 feet**

## CRS Repair Scenarios

The CRS offers three general scenarios for closing a SLIP case:

1. Grade 1-2: maintain & monitor\*
2. Grade 3: option to repair or maintain & monitor\*
3. Grade 4-5: repairs required



\*Maintenance plans are not available to permit initiated.

## CRS Benefits to Property Owners

- Maintain and make repairs over time
- Plan for future repairs
- Work with staff to develop a maintenance plan
- Compare lateral condition over time





# REPAIR METHODS AND REQUIREMENTS

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# Lateral Repair Methods

## Standard Methods

- Conventional Dig and Replace
- Pipe Bursting

## Lateral Lining Method

- Cured In Place Pipe (CIPP) Lining Using Inversion Lining Method
- If the liner is overshoot into the main, the contractor will be responsible for fixing (or pay cost recovery if City must fix)

## Poll Question

Does Lateral Lining Require a Permit?

- A. Yes
- B. No

## Poll Question

Does Lateral Lining Require a Permit?

A. Yes

B. No

# Lateral Lining Process

## Request

- Email written request
- City will review details
- Include pre-lining video
- Secure the appropriate permit: provide your liner approval when applying

## Schedule

- Only on Mon, Tues, Wed
  - 8:00am
  - 10:00am
  - 1:00pm

## Install

- SLIP or BLD inspector will be on site
- Licensed contractor **who permit is issued to** must be on-site

## Submit

- Post lining video submitted within in 24hours to SLIP email

[SLIP@SantaBarbaraCa.gov](mailto:SLIP@SantaBarbaraCa.gov)

# Liners Over-shot Into the Main Sewer Line



Plumbing contractor will be responsible for correcting

# CONNECTION REPAIR OPTIONS

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# Lateral Connection Replacement Options

- Lateral connections replacements can **ONLY** be completed by the City's contractor
- Only the City's contractor can replace/repair/install the wye connection
- Always follow standard details

# Lateral Connection Replacement Options

## Option 1 – Permitted Plumbing Contractor Connection Replacement

- Contractor issued the permit is responsible for locating, utility marking, traffic control, and excavation.
- City Contractor replaces connection at specified time.
- Plumbing contractor completes all other lateral work and backfill.
- Please note, communication will only be with the licensed contractor on the permit.

# Lateral Connection Replacement Options

## Option 2 – City Contractor Connection Replacement

- All encompassing project to excavate and replace lateral connection
- Property owner signs agreement and pays fees to PW front counter.
- Competitively bid price:
  - Starting at \$8,500 for property owner, max 8 ft deep
- City Staff coordinates project with Lash Construction on behalf of the property owner
- City contractor is held to the same standards as everyone else

# REPAIR & INSPECTIONS

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## Poll Question

Which repairs require a permit?

- A. Only those with work in the public-right-of-way
- B. All repairs except CIPP liners
- C. All repairs including CIPP liners and backwater valves
- D. All repairs except backwater valves

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# When is a Permit Required

## ALWAYS

Replace/Repair/Install/Abandon of any portion of the lateral or wye connection in the Public Right-of-Way, on private property, or on an easement

Permit applications must include:

- Basic site plan
- Accurate traffic control
- Complete application
- Lateral ID (found on repair letter)



# Permit Fees

Permits	FY 2024 Fee Range
Open Trench	\$320 & up
Bore Hole	\$214 & up
Traffic Control	\$97-1896
Connection Installation	\$1780 - 6" or 8" \$1995 - 10" or greater
Backwater Valve (Building Permit)	\$205
Lateral Lining video reviews	\$ 191
Building permit SLIP case video review	\$96

The fee schedule is updated each fiscal year and goes into effect on July 1<sup>st</sup>.

[www.Santabarbaraca.gov/waterrates](http://www.Santabarbaraca.gov/waterrates)  
Select Sewer Rate and Fee Schedule

# For the Issuance of a Public Works Permit

For Construction Work/Temporary Traffic Control in the Public Right-of-Way or City Easement the following is required:

- **CONTRACTOR:** An appropriately licensed and insured contractor with a current City of Santa Barbara Business License (per SBMC).
- **SCOPE OF WORK:** For the proposed sewer construction work per City Standards (trenching, trenchless, sidewalk replacement etc.).
- **TEMPORARY TRAFFIC CONTROL:** The contractor can use either the Manual Uniform on Temporary Traffic Control, Section 6H, or propose a Temporary Traffic Control Plan (usually Downtown area).

## Reminders about Permits

- Ensure you are providing accurate and complete information on permit
- Check with Permit Counter frequently for status for permits
  - Accela does not have a notification system

# Scheduling Sewer Taps and Cancellation

- **SCHEDULE:** Tuesdays, Wednesdays, and Thursdays 8:00 a.m., 10:00 a.m., 12:30 p.m. & 2:30 p.m.
- **Connection Installation:** The installation of the connection must be done by the City contractor and needs to be scheduled with SLIP staff and the permit counter.
- **Cancellation of Appointment:** All cancellations must be done at least 24 hrs. prior to scheduled appointment. Violation of this will result in a cancellation fee that must be paid, before rescheduling.

# Sewer Tap Installation Requirements

## Requirements:

- **Do not enter, disturb, or work on City sewer mains**
  - *SBMC 14.44.140*
- Do not break the existing fittings or service address lateral(s)
- Do not remove pipe or fittings even on a lined main.

## When to call – ASAP, and always 24hrs prior to appointment

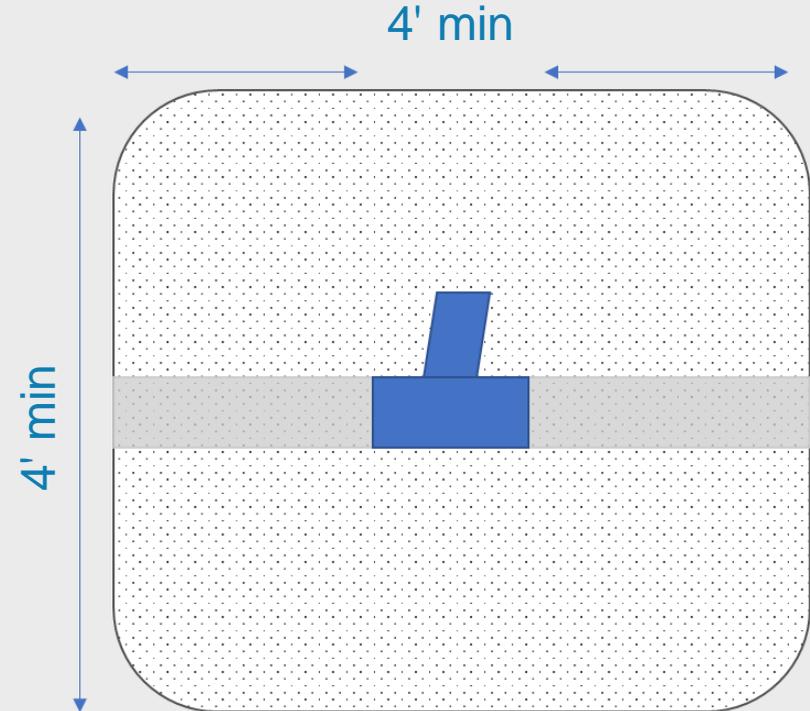
- Atypical configurations
  - *Stacked or “double-wye” situations*
  - *“T” configurations*
  - *Main size different than anticipated*
- Not ready, need to cancel
- Call PW inspector prior to starting work
- Please call about these issues at least 24 hrs in advance.

# Requirements for Sewer Tap Installations

## Appointment Ready Status:

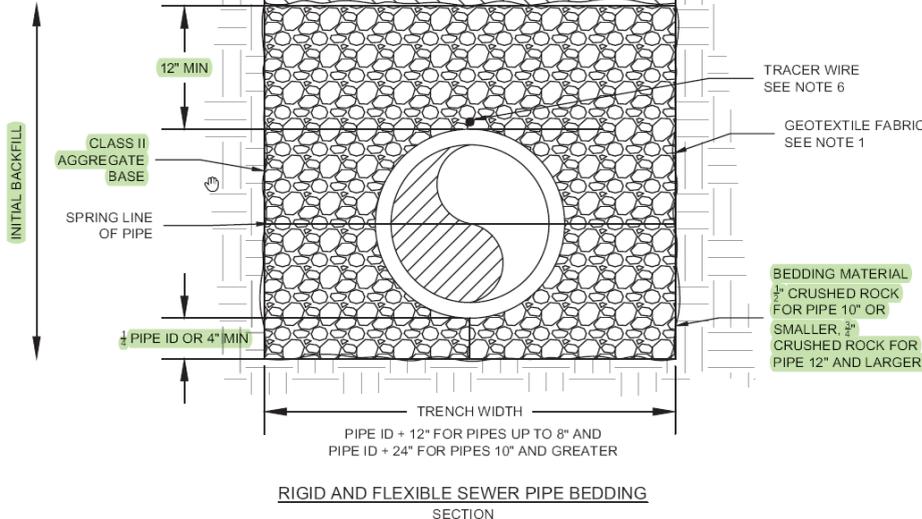
- On time
- Proper shoring
- Project site is completely exposed
- Project site is completely excavated
- Appropriate traffic control

If PW inspector finds that any one of these is incomplete, they will cancel



# Sanitary Sewer Standard Details Updated in 2024

TRENCH ZONE BACKFILL SHALL BE 1-SACK SLURRY FOR TRENCHES UNDER 100 FT IN LENGTH. EXCEPTIONS MUST BE AUTHORIZED BY THE CITY ENGINEER. ALL OTHER TRENCHES SHALL USE AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION



## Bedding Material:

- Sand no longer acceptable
- Standard is to use 1/2" rock with 12" of base on top finished off with a 1 sack slurry. (Detail S-SP1)
- Applies to sewer mains & laterals. (Detail S-SL1 note 10)

## Abandonment of Laterals:

- Must abandon at main, not property line or building
- Applies to small & large diameter mains (Detail S-SL9 & SL10)

# Example of incorrect bedding material



# Requirements for Sewer Tap Installations



## NON SKID Steel Plates

### 5-7.8.1 General - Green Book Legal Responsibilities

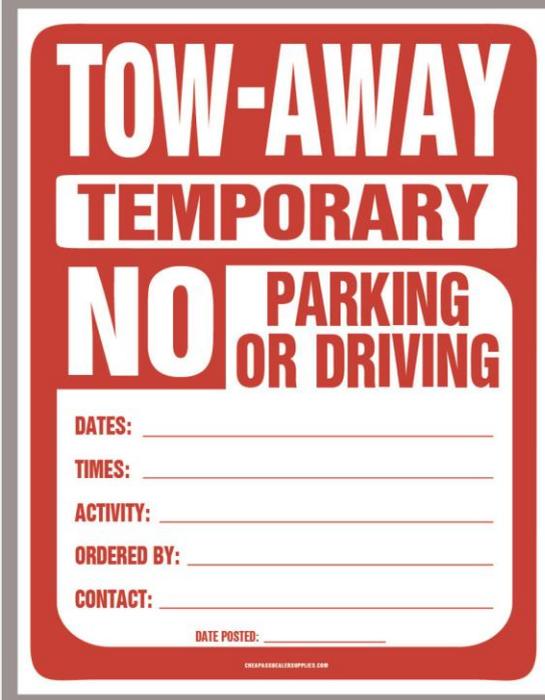
- The Contractor shall provide, install, and maintain steel plate covers as necessary to protect from accidental entry into openings, trenches, and excavations.
- Surfaces exposed to pedestrian or vehicular traffic shall be non-skid.

## Temporary Traffic Control- “Tow Away, No Parking” Sign

- Fill out completely (incl permit #)
- Posting must be done at least 72 hours prior to beginning construction work and must be filled out completely

### AFTER POSTING:

- Call Parking Enforcement For Tows:
  - (805) 897-3727
- Parking Signs need to be checked daily!



**TOW-AWAY**  
**TEMPORARY**  
**NO PARKING**  
**OR DRIVING**

**DATES:** \_\_\_\_\_  
**TIMES:** \_\_\_\_\_  
**ACTIVITY:** \_\_\_\_\_  
**ORDERED BY:** \_\_\_\_\_  
**CONTACT:** \_\_\_\_\_  
**DATE POSTED:** \_\_\_\_\_

ONEWATERCITYOFSTANTABARBARA.COM

# REVIEW & REMINDERS

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## SLIP Communications and Training

- You must complete this training annually
- Updates provided in Plumbers Newsletter
- Resources: [SantaBarbaraCA.gov/SLIP](https://SantaBarbaraCA.gov/SLIP)

## Review Questions

1. Who must complete this course?
2. How many days do I have to submit the inspection after completing it?
3. What work requires a permit?

## Reminders

- To forego inspection entire lateral must be replaced including connection and requires written notification from property owner & backwater valve requirement
- All email communication to/copy: [SLIP@SantaBarbaraCA.gov](mailto:SLIP@SantaBarbaraCA.gov)



# Thank You!

Please note this presentation is for educational purposes only and is not intended to serve as a certification tool.

To be notified of the next certification course, contact us at [SLIP@SantaBarbaraCA.gov](mailto:SLIP@SantaBarbaraCA.gov)