

MANAGING PCBs-CONTAINING MATERIALS DURING DEMOLITIONS



Polychlorinated Biphenyls (PCBs) Screening Assessment Applicant Package May 2019



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Managing PCBs-Containing Materials During Demolitions

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Disclaimer

The material presented in this document is intended solely for the implementation of a municipal regulatory program required by the San Francisco Bay Area Regional Water Quality Control Board Municipal Regional Stormwater Permit for the protection of water quality under the Clean Water Act.

This document does not address other environmental programs or regulations (e.g., PCBs regulations under the Toxic Substances Control Act (TSCA); Federal, State, or local regulations for hazardous material handling and hazardous waste disposal; health and safety practices to mitigate human exposure to PCBs or other hazardous materials; recycling mandates; and abatement at sites with PCBs (or other contaminants). The applicant is responsible for knowing and complying with all relevant laws and regulations.

Process Overview

This document describes a PCBs in Priority Building Materials Screening Assessment process to be conducted by demolition project proponents (applicants). A flow chart illustrating the above processes is provided (Page 3).

Applicants proposing to demolish buildings must conduct the PCBs screening assessment. Through the PCBs screening assessment, applicants will:

- 1) Determine whether the building proposed for demolition is likely to have PCBs-containing building materials (see discussion of applicable structure); and
- 2) Determine whether PCBs are present at a concentration equal to or greater than 50 parts per million (ppm) in building materials.

Use the *PCBs Screening Assessment Forms* (Page 4) to summarize and certify the information required by the municipality to issue the demolition permit. There are **two steps** to completion of the PCB Screening Assessment Form:

- **Step 1**—Complete the “Demolition Project Applicability” (Page 4) form to identify whether the structures in the proposed demolition project are applicable for further screening assessment in Step 2. If the structures are not applicable to the requirement for additional PCB screening assessment, the form may be certified and submitted. *Project applicants that have previously completed the applicability form during the City Planning review process and determined that the structures are applicable can proceed to completion of Step 2.*
- **Step 2**—Complete the “PCBs in Priority Building Materials Report” (Page 7) form describing the results of the PCB assessment.

Note that fluorescent light ballasts, polyurethane foam furniture, and Askarel fluid used in transformers, all of which may contain PCBs, are typically managed during predemolition activities under current regulations and programs that require removal of universal waste and outdated transformers. For this process, it is assumed that those materials will be evaluated and managed under those existing programs.

This screening process is part of a program for water quality protection and was designed in accordance with requirements in the MRP.¹ It does not address other environmental programs or regulations (e.g., PCBs regulations under the Toxic Substances Control Act (TSCA); Federal, State, or local regulations for hazardous material handling and hazardous waste disposal; health and safety practices to mitigate human exposure to PCBs or other hazardous materials; recycling mandates; or abatement at sites with PCBs (or other contaminants). **The applicant is responsible for complying with all relevant laws and regulations. See the Notices to Applicants section for important additional information.**

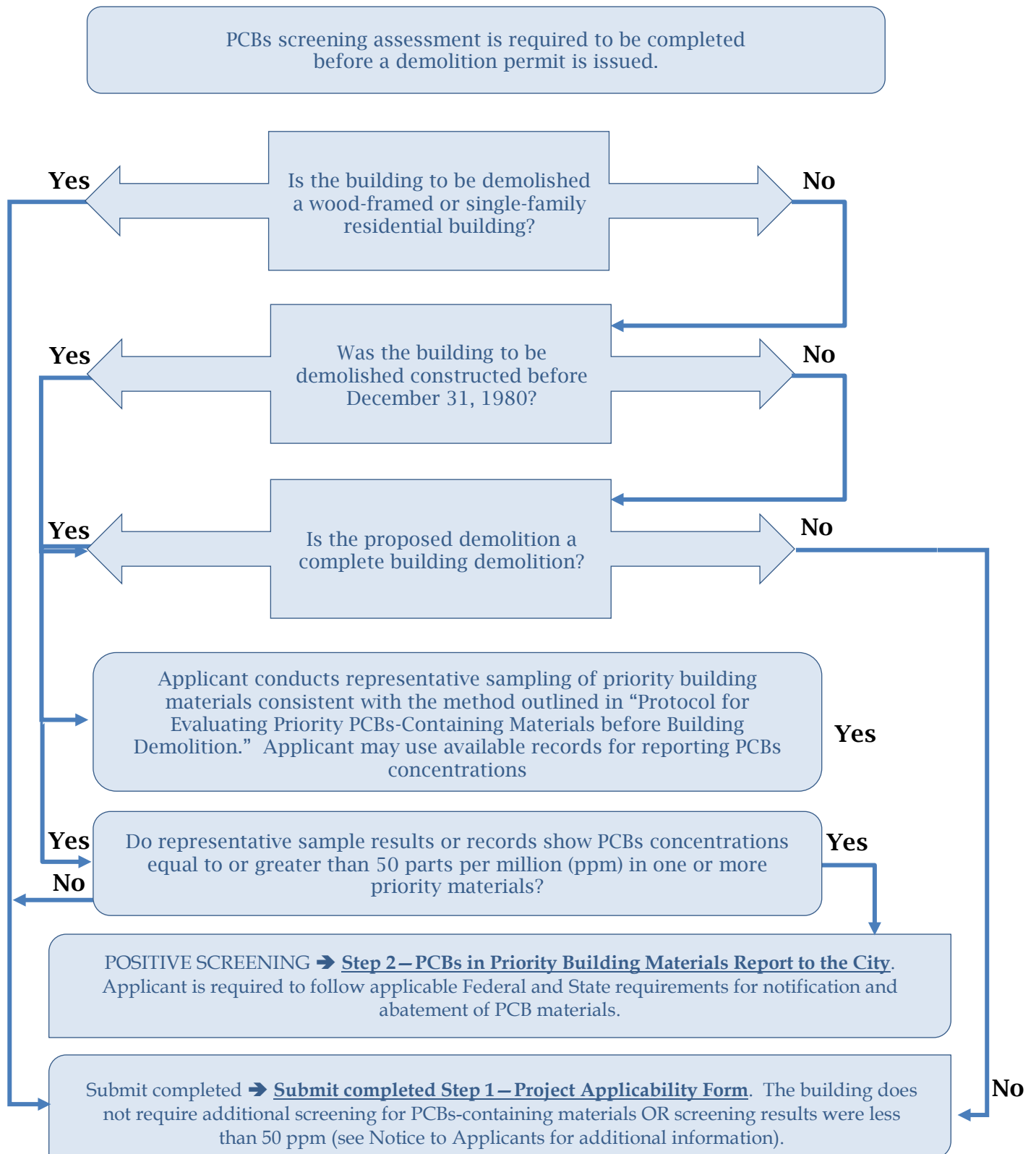
Water quality within the San Francisco Bay Region is regulated by the San Francisco Bay Area Regional Water Quality Control Board (Regional Water Board).

In 2015, the Regional Water Board reissued the Municipal Regional Permit (MRP)¹ that regulates discharges of stormwater runoff. The MRP includes provisions for reducing discharges of polychlorinated biphenyls (PCBs) in stormwater runoff and requires municipalities to develop a program to manage priority PCBs-containing building materials during demolition and implement the program by July 1, 2019.

Existing federal and state regulations create the framework for managing PCBs in building materials once those PCBs are identified through this program and for disposing of wastes containing PCBs.

¹ A National Pollutant Discharge Elimination System (NPDES) permit, Order No. R2-2015-0049, issued to municipalities in the counties of Alameda, Contra Costa, San Mateo, and Santa Clara, and the Cities of Fairfield, Suisun City, and Vallejo.

PCBs Screening Assessment Process Flowchart





CITY OF MOUNTAIN VIEW

FIRE DEPARTMENT - CLASS 1 • FIRE AND ENVIRONMENTAL PROTECTION DIVISION
500 Castro Street • City Hall • 4th Floor • Mountain View • California • 94041-2010
650-903-6378 • Fax 650-962-1430

POLYCHLORINATED BIPHENYLS (PCBs) SCREENING ASSESSMENT FORM STEP 1 – Demolition Project Applicability

The purpose of this form is to determine if a proposed building demolition project is subject to sampling and potential management of priority materials containing Polychlorinated Biphenyls (PCBs) before demolition occurs. Submit this completed form to the City.

This screening process is a water quality protection requirement of the Bay Area Regional Municipal Stormwater NPDES permit (referred to as the Municipal Regional Permit). This process does not address other environmental programs or regulations (e.g., PCBs regulations under the Toxic Substances Control Act (TSCA); Federal, State, or local regulations for hazardous material handling and hazardous waste disposal; health and safety practices to mitigate human exposure to PCBs or other hazardous materials; recycling mandates; or abatement at sites with PCBs or other contaminants). **The applicant is responsible for knowing and complying with all relevant laws and regulations.**

PART 1. OWNER/CONSULTANT AND PROJECT INFORMATION					
Owner Information					
Owner Name					
Address					
City		State	Zip		
Contact (Agent)					
Phone		E-mail:			
CONSULTANT INFORMATION					
Firm Name					
Address					
City		State	Zip		
Contact Person					
Phone		E-mail:			
PROJECT LOCATION					
Address					
City		State	Zip		
APN:					
Year Building was Built:		Estimated Demolition Date:			
Type of Construction:					

FIR-205 (04-26-19)

PART 2. IS BUILDING SUBJECT TO THE PCBs SCREENING REQUIREMENT BASED ON TYPE, USE, AND AGE OF THE BUILDING?	
2.a	Is the building to be demolished wood-framed and/or single-family residential? <input type="checkbox"/> Yes <input type="checkbox"/> No
If the answer to Question 2.a is Yes , the PCBs Screening Assessment is complete, skip to Part 3. If the answer is No , continue to Question 2.b.	
2.b	Was the building to be demolished constructed before December 31, 1980? <input type="checkbox"/> Yes <input type="checkbox"/> No
If the answer to Question 2.b is No , the PCBs Screening Assessment is complete, skip to Part 3. If the answer is Yes , continue to Question 2.c.	
2.c	Is the proposed demolition a complete demolition of the building? <input type="checkbox"/> Yes <input type="checkbox"/> No
<p>If the answer to Question 2.c is No, the PCBs Screening Assessment is complete, skip to Part 3.</p> <p>If the answer is Yes, additional PCBs assessment for the building is required prior to issuance of a demolition permit. The applicant is required to submit a completed STEP 2 - PCBs in Priority Building Materials Report with the demolition permit application and plans. The applicant is responsible for compliance with applicable Federal and State laws and regulations related to notification and management of PCBs-containing materials.</p>	
PART 3. CERTIFICATION	
<p>I certify that the information provided in this form is, to the best of my knowledge and belief, true, accurate, and complete. I further certify that I understand my responsibility for knowing and complying with all relevant laws and regulations related to reporting, abating, and handling and disposing of PCBs materials and wastes. I understand there are significant penalties for submitting false information. I will retain a copy of this form and the supporting documentation for at least five (5) years.</p>	
<p>Signature: _____ Date: _____</p> <p>(Property Owner/Agent/Legal Representative)</p> <p>Print/Type: _____</p> <p>(Property Owner/Agent/Legal Representative)</p>	
<p>Signature: _____ Date: _____</p> <p>(Consultant Completing Application Form)</p> <p>Print/Type: _____</p> <p>(Consultant Completing Application Form)</p>	
<p>City Staff Comments:</p> 	

FIR-205 (04-26-19)

Applicants for demolition permits are required to conduct an assessment to screen for potential PCBs in priority building materials. This *Demolition Project Applicability Form* is the first step to determine if the project will require additional sampling and assessment. If the project includes the demolition of multiple buildings, complete one form for each building.

Part 1. Owner and Project Information

Complete the owner and consultant information and the project location information.

For the type of construction, select one of the following options:

- Wood Frame. Buildings constructed with lumber or timbers, which make up the studs, plates, joists, and rafters.
- Masonry Construction. Buildings constructed with concrete blocks or bricks as the load-bearing walls, typically with the floors and ceilings constructed with wooden joists.
- Steel Frame Construction. Buildings constructed with steel studs or steel columns and steel joists or trusses to support floors and roofs. Includes light-gauge steel construction and high-rise steel construction.
- Concrete Frame. Buildings constructed with reinforced concrete columns, concrete beams, and concrete slabs.
- Pre-Engineered. Buildings constructed with pre-engineered parts bolted together.

Part 2. Is Building Subject to the Screening Requirement Based on Type, Use, and Age of the Building?

Part 2 documents the determination of whether the proposed demolition will affect an applicable structure.

If the demolition does not affect an applicable structure, then the assessment is complete, and the form can be certified. This determination screens out buildings that are a lower priority with regard to PCBs-containing materials and provides an off-ramp from the rest of the screening process.

Part 3. Certification

Complete the certification. The certification must be signed by the property owner or the owner's agent or legal representatives and the consultant who complete the application form.

Key Definitions

Demolition means the wrecking, razing, or tearing down of any building. The definition is intended to be consistent with the demolition activities undertaken by contractors with a C-21 Building Moving/Demolition Contractor's License.

Priority Building Materials are:

1. Caulk;
2. Thermal insulation;
3. Fiberglass insulation;
4. Adhesive mastics; and
5. Rubber window gaskets.

Buildings are structures with a roof and walls standing more or less permanently in one place. Buildings are intended for human habitation or occupancy.

Applicable Structures are defined as buildings constructed or remodeled between January 1, 1950 and December 31, 1980. Wood-framed buildings and single-family residential buildings are not applicable structures regardless of the age of the building.



CITY OF MOUNTAIN VIEW

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POLYCHLORINATED BIPHENYLS (PCBs) SCREENING ASSESSMENT FORM

STEP 2—PCBs in Priority Building Materials Report

Completion of this form is required for proposed demolition projects that the “Step 1—Demolition Project Applicability” form determined the need for additional PCBs assessment prior to building demolition. The purpose of this form is to document the results of the assessment of PCBs concentrations in priority building materials for the demolition project described below. Submit this completed form and supporting monitoring results to the City.

This screening process is a water quality protection requirement of the Bay Area Regional Municipal Stormwater NPDES permit (referred to as the Municipal Regional Permit). This process does not address other environmental programs or regulations (e.g., PCBs regulations under the Toxic Substances Control Act (TSCA); Federal, State, or local regulations for hazardous material handling and hazardous waste disposal; health and safety practices to mitigate human exposure to PCBs or other hazardous materials; recycling mandates; or abatement at sites with PCBs or other contaminants). **The applicant is responsible for knowing and complying with all relevant laws and regulations.**

PART 1. OWNER/CONSULTANT AND PROJECT INFORMATION (Part 1 information is required if the “PCBs in Priority Building Materials Report” is submitted separately from the “Project Applicability Form”)		
Owner Information		
Owner Name		
Address		
City	State	Zip
Contact (Agent)		
Phone	E-mail:	
CONSULTANT INFORMATION		
Firm Name		
Address		
City	State	Zip
Contact Person		
Phone	E-mail:	

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PROJECT LOCATION		
Address		
City	State	Zip
APN:		
		Estimated Demolition Date:
PART 2. REPORT CONCENTRATIONS OF PCBs IN PRIORITY BUILDING MATERIALS		
<p>Option 1. Applicants conducted representative sampling and analysis of the priority building materials per the Protocol for Evaluating Priority PCBs-Containing Materials before Building Demolition (BASMAA, August 2018).</p> <p>Option 2. Applicants possess existing sample results that are consistent with the Protocol for Evaluating Priority PCBs-Containing Materials before Building Demolition.</p>		
<p>2.a Select option and report PCBs concentrations in the priority building materials and the source of data for each of the priority building materials. Provide the required supporting information.</p>		
<input type="checkbox"/> Option 1: Conduct Representative Sampling <ul style="list-style-type: none"> Summarize results on Part 2 Tables; and Provide the following supporting information: <ul style="list-style-type: none"> <input type="checkbox"/> Consultant's report documenting the assessment results; <input type="checkbox"/> QA/QC checklist (see Page 15); and <input type="checkbox"/> Copies of the analytical data reports. <p>(A reporting template and associated Tables are included.)</p>	<input type="checkbox"/> Option 2: Use Existing Building Records <ul style="list-style-type: none"> Summarize results on Step 2 - Part 2 Tables; and Provide the following supporting information: <ul style="list-style-type: none"> <input type="checkbox"/> Consultant's report/statement that the results are consistent with the Protocol for Evaluating Priority PCBs-Containing Materials before Building Demolition; and <input type="checkbox"/> Copies of the analytical data reports. 	
PART 3. CERTIFICATION		
<p>I certify that the information provided in this form is, to the best of my knowledge and belief, true, accurate, and complete. I further certify that I understand my responsibility for knowing and complying with all relevant laws and regulations related to reporting, abating, and handling and disposing of PCBs materials and wastes. I understand there are significant penalties for submitting false information. I will retain a copy of this form and the supporting documentation for at least five (5) years.</p>		
<p>Signature: _____ Date: _____</p> <p style="text-align: center;">(Property Owner/Agent/Legal Representative)</p>		
<p>Print/Type: _____</p> <p style="text-align: center;">(Property Owner/Agent/Legal Representative)</p>		
<p>Signature: _____ Date: _____</p> <p style="text-align: center;">(Consultant Completing Application Form)</p>		
<p>Print/Type: _____</p> <p style="text-align: center;">(Consultant Completing Application Form)</p>		

FIR-205a (05-21-19)

City Staff Comments:

FIR-205a (05-21-19)

INSTRUCTIONS

Applicants for demolition permits are required to conduct an assessment to screen for potential PCBs in priority building materials. This *PCBs in Priority Building Materials Report Form* is the required for proposed demolition projects of applicable structures for additional sampling, assessment, and possible mitigation of PCBs-containing building materials prior to demolition.

Part 1. Owner and Project Information

Complete the owner and consultant information and the project location information.

Part 2. Report concentrations of PCBs in priority building materials

Part 2 documents the results of the assessment of PCBs concentrations in *priority building materials*. Part 2 is only required for proposed demolition of an applicable structure, as determined in Step 1. Check the option used.

- **Option 1:** Conduct representative sampling and analysis of the *priority building materials* per BASMAA's *Protocol for Evaluating Priority PCBs-Containing Materials before Building Demolition* (dated August 2018) (hereinafter referred to as the *Protocol*).
- **Option 2:** Use existing building records for the *priority building materials*. Applicants who have conducted sampling prior to the publication of the *Protocol* may use that data provided it is consistent with the *Protocol* (e.g., analytical methods, sample collection frequency, QA/QC). It is anticipated that prior sampling results will rarely be available and that most Applicants will need to use Option 1.

2.a Option 1 – Conduct representative sampling

Check this box if you conducted representative sampling and analysis of the *priority building materials* per the *Protocol*.

- Complete the applicable tables for each priority building material.
- Attach the consultant's report² documenting the evaluation results.
- Attach (or include in the consultant's report) the QA/QC checklist (see *Protocol*, Section 3.2.4).
- Attach copies of the analytical data reports.

Key Definitions

Demolition means the wrecking, razing, or tearing down of any building. The definition is intended to be consistent with the demolition activities undertaken by contractors with a C-21 Building Moving/Demolition Contractor's License.

Priority Building Materials are:

1. Caulk;
2. Thermal insulation;
3. Fiberglass insulation;
4. Adhesive mastics; and
5. Rubber window gaskets.

Buildings are structures with a roof and walls standing more or less permanently in one place. Buildings are intended for human habitation or occupancy.

Applicable Structures are defined as buildings constructed or remodeled between January 1, 1950 and December 31, 1980. Wood-framed buildings and single-family residential buildings are not applicable structures regardless of the age of the building.

² The consultant's report of the findings of the PCBs building material evaluation. See Section 3 of the *Protocol*.

2.a Option 2 – Use existing building records

In some cases, a property owner may have conducted sampling of the priority building materials for PCBs. If such data exist, you may use these data to demonstrate the concentration of PCBs in the priority building materials for the PCBs screening. However, the sampling must be consistent with the *Protocol*.

- Complete the applicable tables for each priority building material.
- Attach the consultant's report/statement that the results are consistent with the *Protocol*.
- Attach copies of the analytical data reports.

Part 2 Tables summarize concentrations of PCBs in priority building materials

Use these tables to summarize the concentrations of PCBs in the priority building materials.

- Each page of the table is for a different material. Duplicate the pages as needed to report all concentration data.
- A blank page is provided. Applicants have the option of submitting PCBs concentration data on other materials in addition to the priority building materials.

Column 1: Required for all priority building material PCBs concentrations

- Use Column 1 to report all PCBs concentrations in the priority building materials. Provide short description of the sample location and concentration.

Column 2: Only required for PCBs concentrations ≥ 50 ppm

- Use Column 2 to estimate the amount of material associated with each sample.

Part 3. Certification

Complete the certification. The certification must be signed by the property owner or the owner's agent or legal representatives and the consultant who complete the application form.



FOR CITY USE ONLY

Date Received	
File #	

Notices to Applicants Regarding Federal and State PCBs Regulations

Applicants that determine PCBs exist in priority building materials must follow applicable Federal and State laws. This may include reporting to U.S. Environmental Protection Agency (USEPA), the San Francisco Bay Regional Water Quality Control Board, and the California Department of Toxic Substances Control (DTSC). These agencies may require additional sampling and abatement of PCBs.

Depending on the approach for sampling and removing building materials containing PCBs, you may need to notify or seek advance approval from USEPA before building demolition. Even in circumstances where advance notification to or approval from USEPA is not required before the demolition activity, the disposal of PCBs waste is regulated under Toxic Substances Control Act (TSCA).

Additionally, the disposal of PCBs waste is subject to California Code of Regulations (CCR) Title 22, Section Division 4.5, Chapter 12, Standards Applicable to Hazardous Waste Generators.

Building owners and employers need to consider worker and public safety during work involving hazardous materials and wastes, including PCBs.

Federal and State Regulations

Building materials containing PCBs at or above 50 ppm that were manufactured with PCBs (e.g., caulk, joint sealants, paint) fall under the category of PCBs bulk product wastes. See 40 Code of Federal Regulations (CFR) 761.3 for a definition of PCBs bulk product wastes.

Building materials such as concrete, brick, and metal contaminated with PCBs are PCBs remediation wastes (e.g., concrete contaminated with PCBs from caulk that contains PCBs). 40 CFR 761.3 defines PCBs remediation wastes.

Disposal of PCBs wastes is subject to TSCA requirements such as manifesting of the waste for transportation and disposal. See 40 CFR 761 and 40 CFR 761, Subpart K.

TSCA-regulated does not equate solely to materials containing PCBs at or above 50 ppm. There are circumstances in which materials containing PCBs below 50 ppm are subject to regulation under TSCA. See 40 CFR 761.61(a)(5)(i)(B)(2)(ii).

Disposal of PCBs wastes is subject to California Code of Regulations (CCR) Title 22, Section Division 4.5, Chapter 12, Standards Applicable to Hazardous Waste Generators.

California hazardous waste regulatory levels for PCBs are 5 ppm based on the Soluble Threshold Limit Concentration test and 50 ppm based on the Total Threshold Limit Concentration test; see CCR, Title 22, Section 66261.24, Table III.

Agency Contacts

Applicants should contact the appropriate agencies and review the relevant guidance and information about PCBs in building materials. City staff cannot advise you on the requirements of the applicable Federal and State laws.

Agency	Contact	Useful Links
U.S. Environmental Protection Agency	Steve Armann (415) 972-3352 armann.steve@epa.gov	https://www.epa.gov/pcbs (EPA PCB website) https://www.epa.gov/pcbs/questions-and-answers-about-polychlorinated-biphenyls-pcbs-building-materials (PCBs in Building Materials Fact Sheet and Q/A Document) https://www.epa.gov/pcbs/pcb-facility-approval-streamlining-toolbox-fast-streamlining-clean-up-approval-process (USEPA PCB Facility Approval Streamlining Toolbox (PCB FAST)) https://www.epa.gov/pcbs/polychlorinated-biphenyls-pcbs-building-materials#Test-Methods (See Information for Contractors Working in Older Buildings that May Contain PCBs)
San Francisco Bay Regional Water Quality Control Board	Jan O'Hara (510) 622-5681 Janet.O'Hara@waterboards.ca.gov Cheryl Prowell (510) 622-2408 Cheryl.Prowell@waterboards.ca.gov	https://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/TMDLs/sfbaypcbstdml.shtml https://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/sitecleanupprogram.html
Department of Toxic Substances Control	Regulatory Assistance Office 1-800-72TOXIC RAO@dtsc.ca.gov	http://www.dtsc.ca.gov/SiteCleanup/Brownfields/upload/PUB_SMP_Guide-to-Selecting-a-Consultant.pdf
California Division of Occupational Safety and Health (known as Cal/OSHA)	Cal/OSHA Consultations Services 1-800-963-9424	https://www.dir.ca.gov/dosh/consultation.html

Template for Consultant's Report from Predemolition PCBs Building Survey

Demolition Site Information		
Brief description of building, including construction type (e.g., concrete frame, masonry, steel frame, preengineered):		
Address		
City	State	Zip
Date(s) that the PCBs building survey was conducted:		
Consultant Information		
Firm Name		
Address		
City	State	Zip
Contact Person		
Telephone	Email	
Consultant's Demolition Site Contact (e.g., property owner, project proponent, or agent)		
Name		
Telephone	Email	
Certified Analytical Laboratory Information		
Name		
Address		
City	State	Zip

— CONTINUE TO NEXT PAGE —

Describe the survey methods, including:

- Sampling procedures
- Number of samples collected
- Sample identification numbers
- Types of materials sampled (attach example photographs for each material type)
- Descriptions of sample locations (attach maps)

Provide a summary of the testing results, including:

- PCBs concentration in each sample of priority building material that was collected.
- Estimated amount of material (in linear feet for caulking or rubber window gaskets, or square feet for mastics/adhesives or insulation) associated with each sample with a PCBs concentration ≥ 50 ppm. (NOTE: This information is needed to complete the Step 2, Part 2 Tables beginning on Page 17 of the Applicant Package):

Check boxes to indicate that the following documents are attached:

- ☐ Analytical laboratory reports
- ☐ QA/QC Checklist (Page 16 of the Applicant Package)

QA/QC Checklist

For this program, general quality assurance and quality control (QA/QC) procedures will be utilized. The following checklist should be used by the consultant performing the evaluation:

- ☐ Proper specified sampling equipment was used (precleaned or other, stainless steel);
- ☐ Proper decontamination procedures were followed;
- ☐ Sampling collection spatial frequency was met;
- ☐ A National Environmental Laboratory Accreditation Program (NELAP) laboratory was utilized;
- ☐ Samples were received by the laboratory within proper temperature range;
- ☐ Samples were extracted and analyzed within the method holding time for EPA Method 8082/8082A; and
- ☐ Sample reporting limit met data quality objectives.

Step 2 - Part 2. Priority Building Material Applications Table: Caulk		
Column 1. Report all PCBs concentrations for each homogeneous area of caulking area (see Page 31 of Protocol, Section 2.2.2). Use sample designators/descriptions from laboratory report.		Column 2. Complete for each concentration ≥ 50 ppm
Caulk Application Sample Description	Concentration (mg/kg)	Estimate Amount of Material (in Linear Feet)
Example: Caulk Sample 1	320	48
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

Duplicate page if additional space is needed.

Step 2 - Part 2. Priority Building Material Applications Table: Fiberglass Insulation		
Column 1. Report all PCBs concentrations for each homogeneous area of caulking area (see Page 31 of Protocol, Section 2.2.2). Use sample designators/descriptions from laboratory report.		Column 2. Complete for each concentration ≥ 50 mg/kg
Fiberglass Insulation Application Sample Description	Concentration (mg/kg)	Estimate Amount of Material (in Square Feet)
Example: Fiberglass Insulation Sample 1	78	86
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

The area of insulation wrapped around a pipe may be estimated using the following formula:
 Area (square feet) = $2\pi rh$; where r is the pipe radius (feet) and h is the pipe length (feet).

Duplicate page if additional space is needed.

Step 2 - Part 2. Priority Building Material Applications Table: Thermal Insulation		
Column 1. Report all PCBs concentrations for each homogeneous area of caulking area (see Page 31 of Protocol, Section 2.2.2). Use sample designators/descriptions from laboratory report.		Column 2. Complete for each concentration ≥ 50 mg/kg
Thermal Insulation Application Sample Description	Concentration (mg/kg)	Estimate Amount of Material (in Square Feet)
Example: Thermal Insulation Sample 1	20	
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

The area of insulation wrapped around a pipe may be estimated using the following formula:
 Area (square feet) = $2\pi rh$; where r is the pipe radius (feet) and h is the pipe length (feet).

Duplicate page if additional space is needed.

Step 2 - Part 2. Priority Building Material Applications Table: Adhesive Mastic Insulation		
Column 1. Report all PCBs concentrations for each homogeneous area of caulking area (see Page 31 of Protocol, Section 2.2.2). Use sample designators/descriptions from laboratory report.		Column 2. Complete for each concentration ≥ 50 mg/kg
Adhesive Mastic Insulation Application Sample Description	Concentration (mg/kg)	Estimate Amount of Material (in Square Feet)
<i>Example: Adhesive Mastic Insulation Sample 1</i>	87.4	800
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

Duplicate page if additional space is needed.

Step 2 - Part 2. Priority Building Material Applications Table: Rubber Window Gasket		
Column 1. Report all PCBs concentrations for each homogeneous area of caulking area (see Page 31 of Protocol, Section 2.2.2). Use sample designators/descriptions from laboratory report.		Column 2. Complete for each concentration ≥ 50 mg/kg
Rubber Window Gasket Application Sample Description	Concentration (mg/kg)	Estimate Amount of Material (in Linear Feet)
Example: Window Gasket Insulation Sample 1	70	75
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

Duplicate page if additional space is needed.