Lower Duwamish Waterway Group

Port of Seattle / City of Seattle / King County / The Boeing Company

QUALITY ASSURANCE PROJECT PLAN: SUBSURFACE SEDIMENT SAMPLING FOR CHEMICAL ANALYSES

APPENDICES A-D
FINAL

For submittal to

The US Environmental Protection Agency
Region 10
Seattle, WA

The Washington State Department of Ecology
Northwest Regional Office
Bellevue, WA

February 3, 2006

Prepared by: Wind Ward environmental LLC

200 West Mercer Street, Suite 401 ♦ Seattle, Washington ♦ 98119

Table of Contents – Appendices A-D

APPENDIX A: HEALTH AND SAFETY PLAN

TITLE AND APPROVAL PAGE
LDW SUBSURFACE SEDIMENT SAMPLING
HEALTH AND SAFETY PLAN

By their signature, the undersigned certify that this Health and Safety Plan (HSP) is approved and that it will be used to govern health and safety aspects of fieldwork described in the Quality Assurance Project Plan to which it is attached.

Name Project Manager	Date
Name Corporate Health and Safety Manager	Date
Name Field Coordinator/Health and Safety Officer	Date

Acronyms

ACRONYM	Definition
CPR	cardiopulmonary resuscitation
EPA	US Environmental Protection Agency
FC	Field Coordinator
HSM	Corporate Health and Safety Manager
HSO	Field Health and Safety Officer
HSP	health and safety plan
LDW	Lower Duwamish Waterway
OSHA	Occupational Safety and Health Administration
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
PFD	personal flotation device
PM	Project Manager
PPE	personal protective equipment
QAPP	quality assurance project plan
RSS	Research Support Services, Inc.
TBT	tributyltin

A.1.0 Introduction

This site-specific health and safety plan (HSP) describes safe working practices for conducting field activities at potentially hazardous sites and for handling potentially hazardous materials / waste products. This HSP covers elements as specified in 29CFR1910§120. The procedures and guidelines contained in this plan are based on generally recognized health and safety practices. Any changes or revisions to this plan will be made by a written amendment, which will become a permanent part of this plan. The goal of the HSP is to establish procedures for safe working practices for all field personnel.

This HSP addresses all activities associated with collection and handling of subsurface sediment samples in the Lower Duwamish Waterway (LDW). During site work, this HSP will be implemented by the Field Coordinator (FC), who is also the designated site Health and Safety Officer (HSO), in cooperation with the Corporate Health and Safety Manager (HSM) and the Project Manager.

All personnel involved in fieldwork on this project are required to comply with this HSP. The contents of this HSP reflect anticipation of the types of activities to be performed, knowledge of the physical characteristics of the site, and consideration of chemical data from previous investigations at the site. The HSP may be revised based on new information and / or changed conditions during site activities. Revisions will be documented in the project records.

Observers for the sampling event who are not field personnel will be given a safety briefing by the HSO on physical and chemical hazards. Agency observers, or their designees, will be advised of chemicals that may be present at the site and where those chemicals may be located. In addition, appropriate attire and any precautions necessary while walking along the shoreline will be discussed.

A.2.0 Site Description and Project Scope

A.2.1 SITE DESCRIPTION

The sampling area is in the LDW (see Figures 3-1a to 3-1d in the Quality Assurance Project Plan [QAPP]). The area is affected by tidal fluctuations. The QAPP to which this HSP is attached provides complete details of the sampling program. The following section summarizes the types of work that will be performed during field activities.

A.2.2 SCOPE OF WORK

Subsurface sediment cores will be collected to a depth of 10 ft using an impact core sampler called the MudMole™. The cores will be collected from a 30-ft pontoon boat owned and operated by MCS Environmental, Inc. Scuba divers from Research Support Services, Inc. (RSS) will assist with the collection of cores at all locations where the water depth is greater than 5 ft. Sediment coring will be conducted from

January 23 to February 9, 2006. Additional details on the sampling design and sampling methods are provided in Sections 3.1 and 3.2 of the QAPP, respectively.

A.3.0 Health and Safety Personnel

Key health and safety personnel and their responsibilities are described below. These individuals are responsible for implementation of this HSP.

Windward Project Manager: The Windward project manager (PM) has overall responsibility for the successful outcome of the project. The PM will ensure that adequate resources and budget are provided for the health and safety staff to carry out their responsibilities during fieldwork. The PM, in consultation with the HSM, makes final decisions concerning implementation of the HSP.

Field Coordinator/Health and Safety Officer: Because of the limited scope and duration of fieldwork, the FC and HSO will be the same person. The FC / HSO will direct field sampling activities, coordinate the technical components of the field program with health and safety components, and ensure that work is performed according to the QAPP.

The FC / HSO will implement this HSP at the work location and will be responsible for all health and safety activities and the delegation of duties to a health and safety technician in the field, if appropriate. The FC / HSO also has stop-work authority, to be used if there is an imminent safety hazard or potentially dangerous situation. The FC / HSO or his designee shall be present during sampling and operations.

Corporate Health and Safety Manager: The HSM has overall responsibility for preparation, approval, and revisions of this HSP. The HSM will not necessarily be present during fieldwork, but will be readily available, if required, for consultation regarding health and safety issues during fieldwork.

Field Crew and Dive Team: All field crew and dive team members must be familiar with and comply with the information in this HSP. They also have the responsibility to report any potentially unsafe or hazardous conditions to the FC / HSO immediately. The dive team members must also adhere to practices in RSS's Diver Safety Manual.

A.4.0 Hazard Evaluation and Control Measures

This section covers potential physical and chemical hazards that may be associated with the proposed project activities, and presents control measures for addressing these hazards. The activity hazard analysis, Section A.4.3, lists the potential hazards associated with each site activity and the recommended site control to be used to minimize each potential hazard.

Confined space entry will not be necessary for this project. Therefore, hazards associated with this activity are not discussed in this HSP.

A.4.1 PHYSICAL HAZARDS

For this project, it is anticipated that physical hazards will present a greater risk of injury than chemical hazards. Physical hazards are identified and discussed below.

A.4.1.1 Slips, trips, and falls

As with all field work, caution should be exercised to prevent slips on slick surfaces. In particular, sampling from a boat or other floating platform requires careful attention to minimize the risk of falling down or of falling overboard. The same care should be used in rainy conditions or on the shoreline where slick rocks are found. Slips can be minimized by wearing boots with good tread, made of material that does not become overly slippery when wet.

Trips are always a hazard on the uneven deck of a boat, in a cluttered work area, or in the intertidal zone where uneven substrate is common. Personnel will keep work areas as free as possible from items that interfere with walking.

Falls may be avoided by working as far from exposed edges as possible, by erecting railings, and by using fall protection when working on elevated platforms. For this project, no work is anticipated involving elevated platforms.

A.4.1.2 Sampling equipment deployment

A diver-operated impact core sampler (called the MudMole™) will be deployed from the stern of the boat to collect sediment cores. Care will be taken to ensure that the MudMole™ is safely guided from the stern over the railing and into the water. Before sampling activities begin, there will be a training session for all field personnel for the equipment that will be onboard the sampling vessel.

A.4.1.3 Falling overboard

Most of the sampling activities will be done from a boat. As with any work from a floating platform, there is a chance of falling overboard. Personal flotation devices (PFDs) will be worn while working on the boat.

A.4.1.4 Manual lifting

Equipment and samples must be lifted and carried. Back strain can result if lifting is done improperly. During any manual handling tasks, personnel should lift with the load supported by their legs and not their backs. For heavy loads, an adequate number of people will be used, or if possible, a mechanical lifting / handling device will be used.

A.4.1.5 Heat stress, hypothermia, or frostbite

Sampling operations and conditions that might result in the occurrence of heat stress are not anticipated. The sampling will occur during the time of year when cold weather conditions may occur, making hypothermia or frostbite a concern. The FC / HSO will monitor all crew members for early symptoms of hypothermia (e.g., shivering, muscle incoordination, mild confusion). If such symptoms are observed, the FC / HSO will take immediate steps to reduce heat loss by providing extra layers

of clothing or by temporarily moving the affected crew member to a warmer environment.

A.4.1.6 Weather

In general, field team members will be equipped for the normal range of weather conditions. The FC / HSO will be aware of current weather conditions, and of the potential for those conditions to pose a hazard to the field crew. Some conditions that might force work stoppage are electrical storms, high winds, or high waves resulting from winds. In the event of heavy rain, field team members will not sample near a flowing combined sewer overflow because of potentially high concentrations of fecal coliform bacteria.

A.4.1.7 Sharp objects

Sampling operations might result in exposure of field personnel to sharp objects on top of or buried within the sediment. If encountered, field personnel should not touch these objects. Also, field personnel should not dig in the sediment by hand.

A.4.1.8 Night sampling

There is a possibility that field sampling operations could occur at night. The FC / HSO will be aware of the sampling time(s) for each sampling day and will inform all field personnel. If night sampling is necessary, the FC will ensure all field personnel have headlamps / flashlights to avoid potential hazards associated with working in low light conditions.

A.4.1.9 Scuba diving

Scuba diving presents an array of risks not common to a normal worksite. Therefore, tasks that involve diving will be performed by a professional diver who has been properly trained and certified and is aware of the myriad inherent risks involved with scuba diving in hazardous environments. With proper training, the risk of these potential hazards can be minimized. Commercial divers provided by RSS will adhere to their Diver Safety Manual.

The diver will dive line-tended, with wireless communication to the surface. A safety diver will tend the line and wear a headset to talk with the diver in the water. The safety diver will also be suited up and ready to don gear if necessary. In the unlikely event that the in-water diver required assistance, he could be retrieved with the tending line or assisted by the safety diver. Emergency oxygen and first aid will be on the boat, as well as a dive plan (Attachment A2) that will list local hospitals and dive-related emergency contact information.

Equipment failure is always a concern. The diver should be familiar with his / her specific type of equipment and check the tank, regulator, BCD, gauges, and any other equipment to make sure everything is in proper working order prior to use. The compressed air supply is filled by a local dive store so an air check is not necessary.

The diver is also equipped with a pony bottle, which is a small emergency (bailout) air tank.

Divers must be careful to avoid pilings and other obstacles that might snag gear or entrap the diver. Having a clear sense of the layout of the area before getting in the water and taking extra caution during times of low visibility will minimize the risk from these hazards.

Hypothermia sets in much more quickly in water than in air. Wearing proper insulation and knowing the symptoms can help prevent this hazard. Warm clothes should be available on board the support boat.

Nitrogen narcosis is a risk of spending too much time at depth. This project will not require diving below approximately 30 ft, so the risk of narcosis is minimal. However, it is still necessary to consult dive tables to create a dive profile for each dive. Strict adherence to the Diver Safety Manual should prevent nitrogen narcosis.

If boat traffic is a possibility, a dive flag must be showing in the vicinity of the divers. Divers should surface as close as possible to the flag and/or support boat. Diving will not be done in the channel where shipping activity takes place. The dive tender will continuously monitor channels 13, 14, and 16 for boat traffic near the dive area, advise other vessels of diving operations, and warn off boat traffic that may pose a hazard to the divers, if possible.

A.4.2 VESSEL HAZARDS

Because of the high volumes of vessel and barge traffic on the LDW, precautions and safe boating practices will be implemented to ensure that the field boat does not interrupt vessel traffic. Additional potential vessel emergency hazards and responses are listed in Table A-1.

Table A-1 Potential vessel emergency hazards and responses

POTENTIAL EMERGENCY HAZARD	RESPONSE
Fire or explosion	If manageable, attempt to put out a small fire with a fire extinguisher. Otherwise, call the Coast Guard or 911 and evacuate the area (by rescue boat or swimming) and meet at a designated area. The FC/HSO will take roll call to make sure everyone evacuated safely. Emergency meeting places will be determined in the field during the daily safety briefing.
Medical emergency/ personal injury	At least one person with current first aid and cardiopulmonary resuscitation (CPR) training will be aboard the vessel at all times. This person will attempt to assess the nature and severity of the injury, call 911 immediately, and apply CPR if necessary. Stop work and wait for medical personnel to arrive. Fill out a site accident report.
Person overboard	All persons aboard the sampling vessel will wear a PFD at all times. Have one person keep an eye on the person and shout the distance (boat lengths) and direction (o'clock) of the person from the vessel. Stop work and use the vessel to retrieve the person in the water.
Sinking vessel	Call the Coast Guard immediately. If possible, wait for a rescue boat to arrive to evacuate vessel personnel. See fire/explosion section for emergency evacuation procedures. The FC/HSO will take a roll call to make sure everyone is present.

POTENTIAL EMERGENCY HAZARD	RESPONSE
Lack of visibility	If the navigation visibility or personal safety is compromised because of smoke, fog, or other unanticipated hazards, stop work immediately. The vessel operator and FC/HSO will assess the hazard and, if necessary, send out periodic horn blasts to mark vessel location to other vessels potentially in the area, move to a secure location (i.e., berth), and wait for the visibility to clear.
Loss of power	Stop work and call Coast Guard for assistance. Use oars to move vessel towards the shoreline. Vessel personnel should watch for potential collision hazards and notify vessel operator if hazards exist. Secure vessel to a berth, dock, or mooring as soon as possible.
Collision	Stop work and call Coast Guard for assistance. The FC/HSO and vessel operator will assess damage and potential hazards. If necessary, vessel will be evacuated and secured until repairs can be made.

A.4.3 CHEMICAL HAZARDS

Previous investigations have shown that some chemicals are present in sediments at higher-than-background concentrations in the sampling area. For the purposes of discussing potential exposure to chemicals in sediments, the chemicals of concern are metals, tributyltin (TBT), petroleum hydrocarbons, polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and dioxins/furans in some areas.

A.4.3.1 Exposure routes

Potential routes of chemical exposure include inhalation, dermal contact, and ingestion. Exposure will be minimized by using safe work practices and by wearing the appropriate personal protective equipment (PPE). Further discussion of PPE requirements is presented in Section A.7.

Inhalation —Inhalation is not expected to be an important route of exposure.

Dermal exposure — Dermal exposure to hazardous substances associated with sediments, surface water, or equipment decontamination will be controlled by the use of PPE and by adherence to detailed sampling and decontamination procedures.

Ingestion — Ingestion is not considered a major route of exposure for this project. Accidental ingestion of surface water is possible. However, careful handling of equipment and containers aboard the boat should prevent the occurrence of water splashing or spilling during sample collection and handling activities.

A.4.3.2 Description of chemical hazards

Metals and tributyltin — Exposure to metals may occur via ingestion or skin contact. As mentioned above, neither is likely as an exposure route. Metal fumes or metal-contaminated dust will not be encountered during field and sample handling activities. Large amounts of sediment would need to be ingested for any detrimental effects to occur. Momentary skin contact allows little, if any, opportunity for passage of any of these metals into the body. Field procedures require immediate washing of sediments from exposed skin.

Petroleum hydrocarbons and PAHs — Exposure to petroleum hydrocarbons and PAHs may occur via ingestion or skin contact. The most important human health exposure pathway for this group of chemicals, inhalation, is not expected to occur at this site. Animal studies have also shown that PAHs can cause harmful effects on the

skin, body fluids, and ability to fight disease after both short- and long-term exposure, but these effects have not been seen in people. Some PAHs may reasonably be expected to be carcinogens. Large amounts of sediment would need to be ingested for any detrimental effects to occur. Momentary skin contact allows little, if any, opportunity for passage of any of these compounds into the body. Field procedures require immediate washing of sediments from exposed skin.

PCBs — Prolonged skin contact with PCBs may cause acne-like symptoms known as chloracne. Irritation to eyes, nose, and throat may also occur. Acute and chronic exposure can damage the liver, and cause symptoms of edema, jaundice, anorexia, nausea, abdominal pains, and fatigue. PCBs are a suspected human carcinogen. Skin absorption may substantially contribute to the uptake of PCBs. Large amounts of sediment would need to be ingested for any detrimental effects to occur. Momentary skin contact allows little, if any, opportunity for passage of any of the compounds into the body. Field procedures require immediate washing of sediments from exposed skin.

Dioxins/furans — Prolonged skin contact with dioxins/furans may cause acne-like symptoms known as chloracne. Other effects to the skin, such as red skin rashes, have been reported to occur in people following exposure to high concentrations of 2,3,7,8-TCDD. Acute and chronic exposure can damage the liver, result in an increase in the risk of diabetes and abnormal glucose tolerance, and may increase the risk for reproductive and developmental effects. 2,3,7,8 TCDD is a possible human carcinogen, and a mixture of dioxins/furans with six chlorine atoms (4 of the 6 chlorine atoms at the 2, 3, 7, and 8 positions) is a probable human carcinogen. Skin absorption may substantially contribute to the uptake of dioxins/furans. Large amounts of sediment would need to be ingested for any detrimental effects to occur. Momentary skin contact allows little, if any, opportunity for passage of any of the compounds into the body. Field procedures require immediate washing of sediments from exposed skin.

A.4.4 ACTIVITY HAZARD ANALYSIS

The activity hazard analysis summarizes the field activities to be performed during the project, outlines the hazards associated with each activity, and presents controls that can reduce or eliminate the risk of the hazard occurring.

Table A-2 presents the activity hazard analysis for sediment sampling.

Table A-2. Activity hazard analysis

ACTIVITY	HAZARD	CONTROL
Sediment sampling from a boat	Falling overboard	Use care in boarding/departing from vessel. Deploy and recover the sampler from the back deck of the boat. Wear PFD.
	Skin contact with contaminated sediments or liquids	Wear modified Level D PPE.
	Back strain	Use appropriate lifting technique when deploying and retrieving heavy equipment, or seek help.
Scuba diving	Loss of communication	Dive termination
	Equipment failure	Pre-dive check out, diver tender and/or safety diver present.
	Scrapes, bruises, and entrapment by pilings and other obstacles	Be familiarized with the area before entering the water. Exercise caution when visibility is low.
	Hypothermia	Wear appropriate insulation. Be aware of the symptoms and have warm clothes available.
	Nitrogen narcosis	Consult dive tables for each dive.
	Boat traffic	Fly the dive flag in the vicinity of the divers. Ascend carefully and as close as possible to the support boat. Dive tender will continuously monitor channels 13, 14, and 16 for boat traffic near dive area. Dive tender will advise other vessels of diving operations and warn off boat traffic that may pose a hazard to the divers, if possible.
Core processing	Chemical inhalation	Air monitoring as needed. Use box fans for air circulation.
	Noise exposure from circular saw	Use ear plugs
	Slips, trips, and falls	Use rubber mat on flooring. Keep work area clear of obstructions.

A.5.0 Work Zones and Shipboard Access Control

During sampling and sample handling activities, work zones will be established to identify where sample collection and processing are actively occurring. The intent of the zone is to limit the migration of sample material out of the zone and to restrict access to active work areas by defining work zone boundaries.

A.5.1 WORK ZONE

The work zone on the boat will encompass the area where sample collection and handling activities are performed. The work zone in the core processing area will include the immediate area surrounding the core samples and the jar labeling area. Only persons with appropriate training, PPE, and authorization from the FC / HSO will be allowed to enter the work zone while work is in progress.

A.5.2 DECONTAMINATION ZONE

A decontamination zone will be set up, and personnel will clean soiled boots or PPE after leaving the work zone, but before entering the clean zone. The decontamination zone will have the buckets, brushes, soapy water, rinse water, or wipes necessary to

clean boots, PPE, or other equipment leaving the work zone. Plastic bags will be provided for expendable and disposable materials. If the location does not allow the establishment of a decontamination station, the FC / HSO will provide alternatives to prevent the spread of contamination.
Decontamination of the boat will also be completed at the end of each work day. Cockpit and crew areas will be rinsed down with LDW water to minimize accumulation of sediment.

A.5.3 ACCESS CONTROL

Security and control of access to the boat will be the responsibility of the FC / HSO and boat captain. Boat access will be granted only to necessary project personnel and authorized visitors. Any security or access control problems will be reported to the client or appropriate authorities.

A.6.0 Safe Work Practices

Following common sense rules will minimize the risk of exposure or accidents at a work site. These general safety rules will be followed on site:

- Do not climb over or under obstacles of questionable stability.
- Do not eat, drink, smoke, or perform other hand-to-mouth transfers in the work zone.
- Work only in well-lighted spaces.
- Never enter a confined space without the proper training, permits, and equipment.
- Make eye contact with equipment operators when moving within the range of their equipment.
- Be aware of the movements of shipboard equipment when not in the operator's range of vision.
- Get immediate first aid for all cuts, scratches, abrasions, or other minor injuries.
- Use the established sampling and decontamination procedures.
- Always use the buddy system.
- Be alert to your own and other workers' physical condition.
- Report all accidents, no matter how minor, to the FC / HSO.
- Do not do anything dangerous or unwise even if ordered by a supervisor.

A.7.0 Personal Protective Equipment and Safety Equipment

Appropriate PPE will be worn as protection against potential hazards. In addition, a PFD will be required when working aboard the boat. Prior to donning PPE, the field crew will inspect their PPE for any defects that might render the equipment ineffective.

Fieldwork will be conducted in Level D or modified Level D PPE, as discussed below in Sections A.7.1 and A.7.2. Situations requiring PPE beyond modified Level D are not anticipated. Should the FC / HSO determine that PPE beyond modified Level D is necessary, the HSM will be notified, and an appropriate alternative selected.

A.7.1 LEVEL D PERSONAL PROTECTIVE EQUIPMENT

Workers performing general activities in which skin contact with contaminated materials is unlikely will wear Level D PPE. Level D PPE includes the following:

- cotton overalls or rain gear
- chemical-resistant steel-toed boots
- chemical-resistant gloves
- safety glasses or sunglasses
- hard hats (when operating onboard sampling vessel and the core sampler is raised above the deck)

A.7.2 MODIFIED LEVEL D PERSONAL PROTECTIVE EQUIPMENT

Workers performing activities where skin contact with contaminated materials is possible and in which inhalation risks are not expected will be required to wear an impermeable outer suit. The type of outerwear will be chosen according to the types of chemical contaminants that might be encountered. Modified Level D PPE includes the following:

- impermeable outer garb such as rain gear
- chemical-resistant steel-toed boots
- chemical-resistant outer gloves

A.7.3 SAFETY EQUIPMENT

In addition to PPE, all shipboard personnel will wear life jackets. Basic emergency and first aid equipment will also be provided. Equipment for the field team will include:

- a copy of this HSP
- life jackets
- first aid kit adequate for the number of personnel
- emergency eyewash

The FC / HSO will ensure that the safety equipment is aboard. Equipment will be checked daily to ensure its readiness for use.

A.8.0 Monitoring Procedures for Site Activities

A monitoring program that addresses the potential site hazards will be maintained. For this project, dust and noise monitoring will not be necessary. The sampled media will be wet and will not pose a dust hazard, and the only equipment emitting high-amplitude (>85 dBA) sound (i.e., circular saw) will be used with the appropriate level of hearing protection. Air monitoring is not anticipated to be necessary, but a flame ionizing detector (FID) will be available if core processing personnel determine that noticeable levels of hydrogen sulfide are present in the sediment. In the event that the FID is used, the FC / HSO will review the readings and may establish additional engineering controls (e.g., fans or ventilation) or PPE (e.g., respirator) if the occupational exposure limits are exceeded.

For this project, the monitoring program will consist of all workers monitoring themselves and their co-workers for signs that might indicate physical stress or illness. All personnel will be instructed to look for and inform each other of any deleterious changes in their physical or mental condition during the performance of all field activities. Examples of such changes are as follows:

- headaches
- dizziness
- nausea
- symptoms of heat stress
- blurred vision
- cramps
- irritation of eyes, skin, or respiratory system
- changes in complexion or skin color
- changes in apparent motor coordination
- increased frequency of minor mistakes
- excessive salivation or changes in papillary response
- changes in speech ability or speech pattern
- shivering
- blue lips or fingernails
- loss of communication with diver

If any of these conditions develop, work shall be halted immediately and the affected person(s) evaluated. If further assistance is needed, personnel at the local hospital

will be notified, and an ambulance will be summoned if the condition is thought to be serious. If the condition is the direct result of sample collection or handling activities, procedures will be modified to address the problem.

A.9.0 Decontamination

Decontamination is necessary to prevent the migration of contaminants from the field laboratory work zone(s) into the surrounding environment and to minimize the risk of exposure of personnel to contaminated materials that might adhere to PPE. The following sections discuss personnel and equipment decontamination. The following supplies will be available to perform decontamination activities:

- wash buckets
- rinse buckets
- long-handled scrub brushes
- clean water sprayers
- paper towels
- plastic garbage bags
- Alconox® or similar decontamination solution

A.9.1 MINIMIZATION OF CONTAMINATION

The first step in addressing contamination is to prevent or minimize exposure to existing contaminated materials and the spread of those materials. During field activities, the FC / HSO will enforce the following measures:

Personnel:

- Minimize walking through areas of obvious or known contamination.
- Do not handle, touch, or smell contaminated materials directly.
- Make sure PPE has no cuts or tears prior to use.
- Fasten all closures on outer clothing, covering with tape if necessary.
- Protect and cover any skin injuries.
- Stay upwind of airborne dusts and vapors.
- Do not eat, drink, chew tobacco, or smoke in the work zones.

Sampling equipment and boat:

- Place clean equipment on a plastic sheet or aluminum foil to avoid direct contact with contaminated media.
- Keep contaminated equipment and tools separate from clean equipment and tools.

- Clean boots before entering the boat.

A.9.2 PERSONNEL DECONTAMINATION

The FC / HSO will ensure that all site personnel are familiar with personnel decontamination procedures. Personnel will perform decontamination procedures, as appropriate, before eating lunch, taking a break, or before leaving the work location. Following is a description of these procedures.
Decontamination procedure:

1. If outer suit is heavily soiled, rinse it off.
2. Wash and rinse outer gloves and boots with water.
3. Remove outer gloves; inspect and discard if damaged.
4. Wash hands if taking a break.
5. Don necessary PPE before returning to work.
6. Dispose of soiled, expendable PPE before leaving for the day.

In addition to the decontamination procedures listed above that apply to all field personnel, divers will:

1. Thoroughly rinse dive suit and gear after each dive.
2. Inspect gear for mud or stains, and re-rinse or scrub with Alconox, if necessary.
3. Discard any damaged or heavily soiled gear after the project, if necessary.
4. Launder dry suit underwear after the project.

A.9.3 SAMPLING EQUIPMENT DECONTAMINATION

Core tubes will be decontaminated prior to use in the field, and because they are used only once, sampling equipment does not need to be decontaminated in the field. After core processing, core tubes will be rinsed to remove residual sediment before offsite recycling or disposal.

A.9.4 VESSEL DECONTAMINATION

Most sampling will be conducted from a boat. Care will be taken to minimize the amount of sediment spilled on the vessel. The vessel deck will be hosed off regularly to remove sediment from the cockpit and crew areas to minimize slipping hazards and sediment transport on boots through work zones.

A.10.0 Disposal of Contaminated Materials

Contaminated materials that may be generated during field activities include PPE, decontamination fluids, and excess sample material. These contaminated materials will be disposed of as an integral part of the project.

A.10.1 PERSONAL PROTECTIVE EQUIPMENT

Gross surface contamination will be removed from PPE. All disposable sampling materials and PPE, such as disposable coveralls, gloves, and paper towels used in sample processing, will be placed in heavyweight garbage bags. Filled garbage bags will be placed in a normal refuse container for disposal as solid waste.

A.10.2 EXCESS SAMPLE MATERIALS

At each sampling location, excess sediment collected will be returned to the water unless a heavy odor or sheen is observed in the sediment, in which case, sediment will be contained for disposal in 55-gallon drums in the field processing laboratory. ARI will assume responsibility for proper off-site disposal of these drums.

A.11.0 Training Requirements

Individuals performing work at locations where potentially hazardous materials and conditions may be encountered must meet specific training requirements. It is not anticipated that hazardous concentrations of contaminants will be encountered in sampled material, so training will consist of site-specific instruction for all personnel and oversight of inexperienced personnel by an experienced person for one working day. The following sections describe the training requirements for this fieldwork.

A.11.1 PROJECT-SPECIFIC TRAINING

In addition to HAZWOPER training, as described in Section 2.5 of the QAPP, field personnel will undergo training specifically for this project. Professional divers will be certified and trained according to the RSS Diver Safety Manual. All personnel must read this HSP and be familiar with its contents before beginning work. They shall acknowledge reading the HSP by signing the field team HSP review form contained in Attachment A1. The form will be kept in the project files.

The boat captain and FC / HSO or a designee will provide project-specific training prior to the first day of fieldwork and whenever new workers arrive. Field personnel will not be allowed to begin work until project-specific training is completed and documented by the FC / HSO. Training will address the HSP and all health and safety issues and procedures pertinent to field operations. Training will include, but not be limited to, the following topics:

- activities with the potential for chemical exposure
- activities that pose physical hazards, and actions to control the hazard
- ship access control and procedure
- use and limitations of PPE
- decontamination procedures
- emergency procedures
- use and hazards of sampling equipment

- location of emergency equipment on the vessel
- vessel safety practices
- vessel evacuation and emergency procedures

A.11.2 DAILY SAFETY BRIEFINGS

The FC / HSO or a designee and the boat captain will present safety briefings before the start of each day's activities. These safety briefings will outline the activities expected for the day, update work practices and hazards, address any specific concerns associated with the work location, and review emergency procedures and routes. The FC / HSO or designee will document safety briefings in the field logbook.

A.11.3 FIRST AID AND CPR

At least one member of the field team must have first-aid and CPR training. The diver and dive tender will also be trained in first-aid and CPR as required by the RSS Diver Safety Manual. Documentation of which individuals possess first-aid and CPR training will be kept in the project health and safety files.

A.12.0 Medical Surveillance

A medical surveillance program conforming to the provisions of 29 CFR 1910§120(f) is not necessary for field team members because they do not meet any of the four criteria outlined in the regulations for implementation of a medical surveillance program:

- Employees who are or may be exposed to hazardous substances or health hazards at or above permissible exposure levels for 30 days or more per year (1910.120(f)(2)(I).
- Employees who must wear a respirator for 30 days or more per year (1910.120(f)(2)(ii)).
- Employees who are injured or become ill due to possible overexposures involving hazardous substances or health hazards from an emergency response or hazardous waste operation (1910.120(f)(2)(iii)).
- Employees who are members of HAZMAT teams (1910.120(f)(2)(iv)).

As described in Section A.8, employees will monitor themselves and each other for any deleterious changes in their physical or mental condition during the performance of all field activities.

A.13.0 Reporting and Record Keeping

Each member of the field crew will sign the HSP review form (see Attachment A1). If necessary, accident / incident report forms and OSHA Form 200s will be completed by the FC / HSO.

The FC / HSO or a designee will maintain a health and safety field logbook that records health- and safety-related details of the project. Alternatively, entries may be made in the field logbook, in which case a separate health and safety logbook will not be required. The logbook must be bound and the pages must be numbered consecutively. Entries will be made with indelible blue ink. At a minimum, each day's entries must include the following information:

- project name or location
- names of all personnel onboard
- weather conditions
- type of fieldwork being performed

The person maintaining the entries will initial and date the bottom of each completed page. Blank space at the bottom of an incompletely filled page will be lined out. Each day's entries will begin on the first blank page after the previous workday's entries.

A.14.0 Emergency Response Plan

As a result of the hazards onboard and the conditions under which operations will be conducted, the potential exists for an emergency situation to occur. Emergencies may include personal injury, exposure to hazardous substances, fire, explosion, or release of toxic or non-toxic substances (spills). OSHA regulations require that an emergency response plan be available for use onboard to guide actions in emergency situations. Onshore organizations will be relied upon to provide response in emergency situations. The local fire department and ambulance service can provide timely response. Field personnel will be responsible for identifying an emergency situation, providing first aid if applicable, notifying the appropriate personnel or agency, and evacuating any hazardous area. Shipboard personnel will attempt to control only very minor hazards that could present an emergency situation, such as a small fire, and will otherwise rely on outside emergency response resources.
The following sections identify the onboard individual(s) who should be notified in case of emergency, provide a list of emergency telephone numbers, offer guidance for particular types of emergencies, and provide directions for getting from any sampling location to a hospital.

A.14.1 PRE-EMERGENCY PREPARATION

Before the start of field activities, the FC / HSO will ensure that preparation has been made in anticipation of emergencies. Preparatory actions include the following:

- Meeting with the FC / HSO and equipment handlers concerning the emergency procedures in the event that a person is injured.
- A training session given by the FC / HSO informing all field personnel of emergency procedures, locations of emergency equipment and their use, and proper evacuation procedures.

- A training session given by senior staff operating field equipment, to apprise field personnel of operating procedures and specific risks associated with that equipment.
- Ensuring that field personnel are aware of the existence of the emergency response plan in the HSP and ensuring that a copy of the HSP accompanies the field team.

A.14.2 PROJECT EMERGENCY COORDINATOR

The FC / HSO will serve as the Project Emergency Coordinator in the event of an emergency. He will designate his replacement for times when he is not onboard or is not serving as the Project Emergency Coordinator. The designation will be noted in the field logbook. The Project Emergency Coordinator will be notified immediately when an emergency is recognized. The Project Emergency Coordinator will be responsible for evaluating the emergency situation, notifying the appropriate emergency response units, coordinating access with those units, and directing interim actions onboard before the arrival of emergency response units. The Project Emergency Coordinator will notify the HSM and the Project Manager as soon as possible after initiating an emergency response action. The Project Manager will have responsibility for notifying the client.

A.14.3 EMERGENCY RESPONSE CONTACTS

All onboard personnel must know whom to notify in the event of an emergency situation, even though the FC / HSO has primary responsibility for notification. Table A-3 lists the names and phone numbers for emergency response services and individuals.

Table A-3. Emergency response contacts

CONTACT	TELEPHONE NUMBER
Emergency Numbers	
Ambulance	911
Police	911
Fire	911
Harborview Medical Center	(206) 323-3074
Emergency Responders	
U.S. Coast Guard Emergency General information	 (206) 286-5400 (206) 442-5295 UHF Channel 16
National Response Center	(800) 424-8802
EPA	(908) 321-6660
Washington State Department of Ecology – Northwest Region Spill Response (24-hour emergency line)	(206) 649-7000

CONTACT	TELEPHONE NUMBER
Emergency Contacts	
Project Manager	
Kathy Godtfredsen	(206) 577-1283
Corporate Health and Safety Manager	
Tad Deshler	(206) 577-1285
Field Coordinator/ Field Health and Safety Officer	Site cellular telephone:
Thai Do	(206) 353-9346

A.14.4 RECOGNITION OF EMERGENCY SITUATIONS

Emergency situations will generally be recognizable by observation. An injury or illness will be considered an emergency if it requires treatment by a medical professional and cannot be treated with simple first-aid techniques.

A.14.5 DECONTAMINATION

In the case of evacuation, decontamination procedures will be performed only if doing so does not further jeopardize the welfare of site workers. If an injured individual is also heavily contaminated and must be transported by emergency vehicle, the emergency response team will be told of the type of contamination. To the extent possible, contaminated PPE will be removed, but only if doing so does not exacerbate the injury. Plastic sheeting will be used to reduce the potential for spreading contamination to the inside of the emergency vehicle.

A.14.6 FIRE

Field personnel will attempt to control only small fires, should they occur. If an explosion appears likely, personnel will follow evacuation procedures specified during the training session. If a fire cannot be controlled with a fire extinguisher on board that is part of the required safety equipment, personnel will either withdraw from the vicinity of the fire or evacuate the boat as specified in the training session.

A.14.7 PERSONAL INJURY

In the event of serious personal injury, including unconsciousness, possibility of broken bones, severe bleeding or blood loss, burns, shock, or trauma, the first responder will immediately do the following:

- Administer first aid, if qualified.
- If not qualified, seek out an individual who is qualified to administer first aid, if time and conditions permit.
- Notify the Project Emergency Coordinator of the incident, the name of the individual, the location, and the nature of the injury.

The Project Emergency Coordinator will immediately do the following:

- Notify the boat captain and the appropriate emergency response organization.
- Assist the injured individual.

- Follow the emergency procedures for retrieving or disposing equipment reviewed in the training session and leave the site en route to the predetermined land-based emergency pick-up.
- Designate someone to accompany the injured individual to the hospital.
- If a life-threatening emergency occurs, i.e., injury where death is imminent without immediate treatment, the FC / HSO or boat captain will call 911 and arrange to meet the Medic One unit at the nearest accessible dock. Otherwise, for emergency injuries that are not life-threatening (i.e., broken bones, minor lacerations, etc.) the Project Emergency Coordinator will follow the procedures outlined above and proceed to the Harbor Island Marina or to an alternative location of his choice if that would be more expedient.
- Notify the HSM and the Project Manager.

If the Project Emergency Coordinator determines that emergency response is not necessary, he or she may direct someone to decontaminate and transport the individual by vehicle to the nearest hospital. Directions showing the route to the hospital are in Section A.14.10.

If a worker leaves the boat to seek medical attention, another worker should accompany them to the hospital. When in doubt about the severity of an injury or exposure, always seek medical attention as a conservative approach, and notify the Project Emergency Coordinator.

The Project Emergency Coordinator will have responsibility for completing all accident / incident field reports, OSHA Form 200s, and other required follow-up forms.

A.14.8 OVERT PERSONAL EXPOSURE OR INJURY

If an overt exposure to toxic materials occurs, the first responder to the victim will initiate actions to address the situation. The following actions should be taken, depending on the type of exposure.

A.14.8.1 Skin contact

- Wash / rinse the affected area thoroughly with copious amounts of soap and water.
- If eye contact has occurred, eyes should be rinsed for at least 15 minutes using the eyewash that is part of the emergency equipment onboard.
- After initial response actions have been taken, seek appropriate medical attention.

A.14.8.2 Inhalation

- Move victim to fresh air.
- Seek appropriate medical attention.

A.14.8.3 Ingestion

- Seek appropriate medical attention.

A.14.8.4 Puncture wound or laceration

- Seek appropriate medical attention.

A.14.9 SPILLS AND SPILL CONTAINMENT

No bulk chemicals or other materials subject to spillage are expected to be used during this project. Accordingly, no spill containment procedure is required for this project.

A.14.10 EMERGENCY ROUTE TO THE HOSPITAL

The name, address, and telephone number of the hospital that will be used to provide medical care is as follows:

Harborview Medical Center
325 - 9th Ave
Seattle, WA
(206) 323-3074

Directions from the vicinity of LDW to Harborview Medical Center are described below.
From the 1st Ave S boat launch:

- Drive east on S River Street.
- Turn left on Occidental Ave S.
- Turn left on E Marginal Way S.
- Turn right on S Michigan Street.
- Look for entrance ramps to I-5 Northbound.
- Head north on I-5.
- Take the James Street exit.
- Head east on James Street to 9th Avenue.
- Turn right on 9th Avenue.
- Emergency entrance will be two blocks south on the right.

From the Harbor Island Marina:

- From marina parking lot, turn sharp right onto Klickitat Way SW
- Turn slight right onto SW Spokane St.
- Turn slight left to take the ramp toward WA-99 N/I-5/Columbian Way
- Keep left at the fork in the ramp

- Stay straight to go onto West Seattle Bridge
- Merge onto I-5 North via the ramp on the left
- Take the James Street exit.
- Head east on James Street to 9th Avenue.
- Turn right on 9th Avenue.
- Emergency entrance will be two blocks south on the right.

Attachment A1. Field Team Health and Safety Plan Review

I have read a copy of the Health and Safety Plan, which covers field activities that will be conducted to investigate potentially contaminated areas in the LDW. I understand the health and safety requirements of the project, which are detailed in this Health and Safety Plan.

Signature	Date
Signature	Date
Signature	Date
Signature	Date
Signature	Date
Signature	Date
Signature	Date
Signature	Date
Signature	Date
Signature	Date
Signature	Date
Signature	Date

Attachment A2. Dive Plan

RSS RESEARCH SUPPORT SERVICES, INC. 206-550-5202
8010 NE LOVGREN ROAD, BAINBRIDGE ISLAND, WA 98110 RESEARCHSUPPORT@EARTHLINK.NET

DIVE SAFETY AND WORK PLAN
Lower Duwamish Sediment Sampling

EMERGENCY RESPONSE INFORMATION

NOTE: Call local 911 first in case of any medical emergency prior to traveling to the emergency medical facility. Call DAN with questions regarding treatment of diving emergencies.

Telephone emergency:	911 and DAN 1-919-684-8111
Coast Guard emergency:	1-206-217-6000 (*CG from any cell phone)
Dive Emergency Gear:	First aid kit, emergency oxygen kit, VHF radio, and cellular phones
Field Cellular Phones:	206-550-5202 Parker; 206-799-1470 Stahl; 206-601-0772 Maxwell; 206-276-7479 Gilmour

Nearest Dive Emergency Medical Facilities:

Harborview Medical Center, 325 9th Ave., Seattle (206) 731-3074 emergency room

Virginia Mason Hospital, Hyperbaric Medicine Dept., 1202 Terry Ave., Seattle

(206) 583-6543 hyperbaric; (206) 583-6433 emergency room and after hours hyperbaric

U.S. Naval Torpedo Station, Keyport (360) 396-2111 or (360) 396-8111

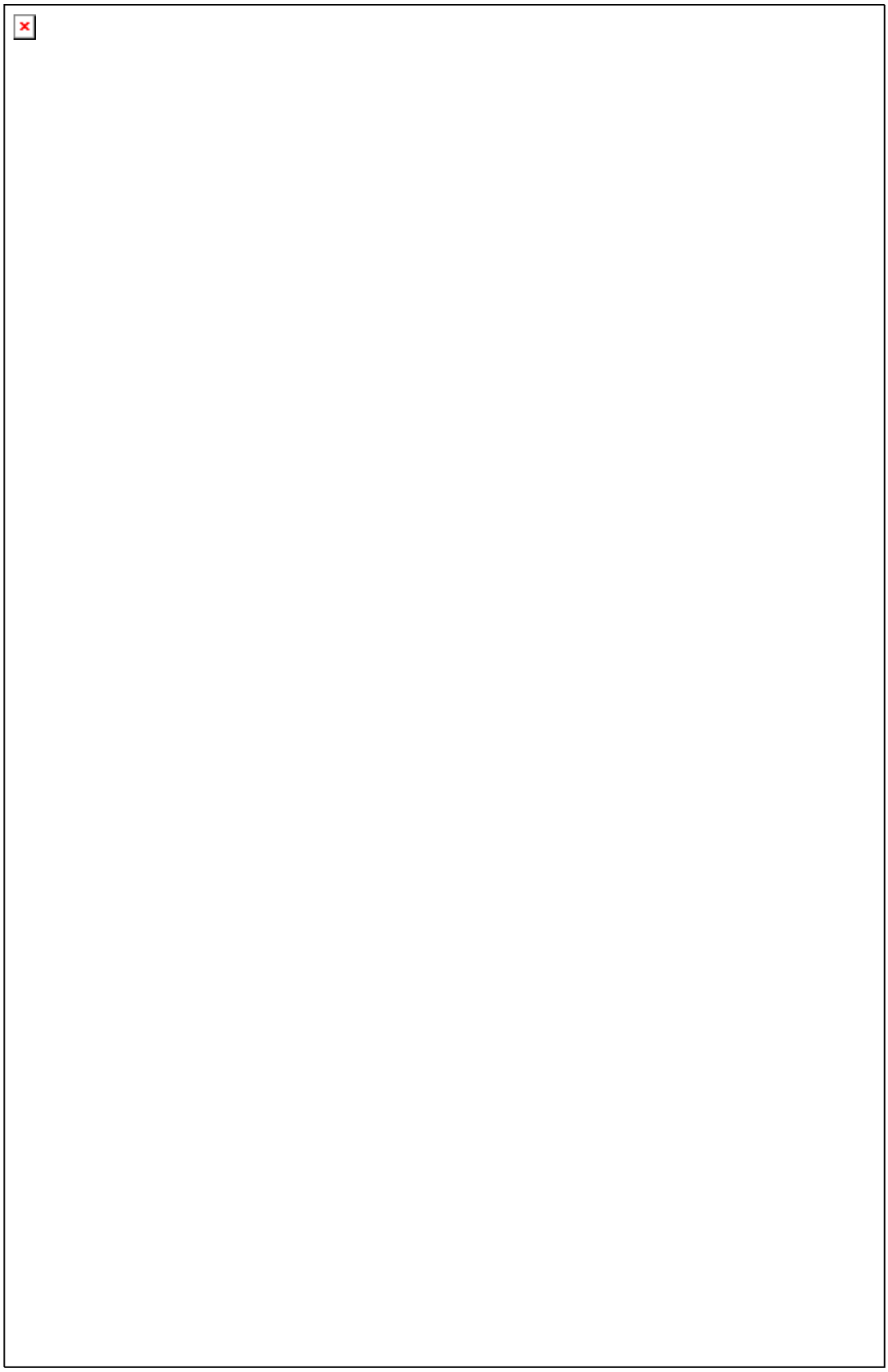
Nearest Non-dive Emergency Medical Facilities:

Virginia Mason Hospital, Hyperbaric Medicine Dept., 925 Seneca Street, Seattle
(206) 583-6433 emergency room

DIVE PLAN

Project:	LDWG Sediment Characterization
Project Managers:	Eric Parker, RSS; Berit Bergquist, Windward; Gary Maxwell, MCS
Dates of operation:	To be decided
Location of Dive:	Lower Duwamish River
Staging Location:	First Avenue South Bridge boat ramp
Primary Diver:	Eric Parker, Research Support Services, Inc.
Backup Diver:	Cindy Stahl, Marine Works
Dive Supervisor:	Eric Parker
Purpose of Work:	Operate linear hammer coring tool for sediment sampling

Number of Dives Anticipated:	30
Maximum depth Anticipated:	40 FFW
Depth for Majority of Work:	15-30 FFW
Breathing Gas:	Air

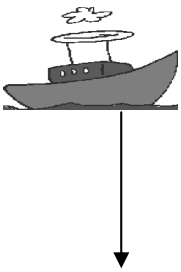


APPENDIX B. FIELD COLLECTION FORMS

SEDIMENT CORE DRIVE LOG

Project:	**Core Location:**
Project #:	**Date:** **Time:**
Field Crew:	**Attempt #:** **Accept/Reject**
Contractor:	**Sample Method:**

Proposed Coordinates		***Actual Coordinates***	
N:	E:	N:	E:
Mudline:		Mudline:	
Core Drive:		Core Drive:	Core Recovery:



DTS Boat:

DTS Lead Line:

Mudline Elevation:

Tide Measurements (Datum:)

Time/Height:

Time/Height:

Description:
(free fall, fingers inverted, vibration needed to drive/extract, estimation of density, debris encountered, slopes, refusal, mudline conditions, drive action, etc.)

Measurement (to nearest 0.1 foot):

Avg. % Recovery:

Avg. % Compaction:

Core Tube Length:

Section:	Length:	Description at Cuts:
A =		
B =		
C =		
D =		

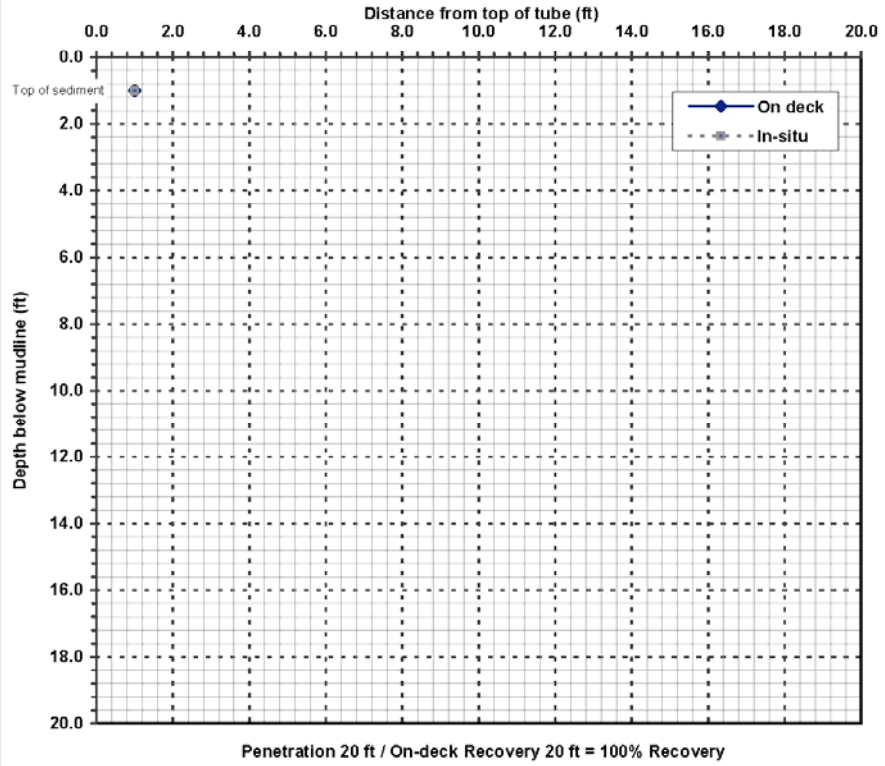
Total Drive: Length Recovered:

Notes:

MUDMOLE™ BORE LOG

Project:		**Station:**		**Place Field ID Label Here**
Collected by:				
Date:		**Time:**		
Water depth:	ft	**Mudline:**	ft MLLW (estimated using tide tables)	

Weather/Comments:



Penetration interval (ft)	Interval recovery (ft)	Percent recovery

Depth below mudline (ft)	Distance from top of tube (ft)
Mudline	0
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	

SEDIMENT CORE PROCESSING LOG

Project:	**Core Location/Sample Number:**
Project #:	**Date/Time:**
No. of Sections:	**Sample Logged by:**
Sample Length (from log):	**Type/Diameter of Sample:**
Avg. % Compaction:	**Sample Quality:** *good fair poor disturbed*
Notes:	

Recovered Length (ft)	% Compaction	Color	Size % - G	Size % - S	Size % - F	PID	Description (grain size, color, moisture, sheen/odor, biota, wood, other debris)	*In situ* Actual Depth (ft)	Sample Depth	Sub-sample #	Summary Sketch

KEY FOR PHYSICAL DESCRIPTION OF SEDIMENT SAMPLES

Sample Description

Classification of soils in this report is based on visual field and laboratory observations which include density/consistency, moisture condition, grain size, and plasticity estimates and should not be construed to imply field nor laboratory testing unless presented herein. Visual-manual classification methods of ASTM D-2488 were used as an identification guide.

Soil descriptions consist of the following:
Density/consistency, moisture, minor constituents, MAJOR CONSTITUENTS, color, odor, and additional remarks.

Density/Consistency

Soil density/consistency is estimated based on visual observation and is presented parenthetically on the test pit logs.

SAND or GRAVEL	Standard Penetration Resistance (N) in Blows/Foot	Visual Description	SILT or CLAY	Standard Penetration Resistance (N) in Blows/Foot	Approximate Shear Strength in TSF	Visual Description
Density			***Consistency***			
Very loose	0–4	freefall	Very soft	0–2	<0.125	ooze, no shape
Loose	4–10	easy penetration	Soft	2–4	0.125–0.25	saggy shape
Medium dense	10–30		Medium stiff	4–8	0.25–0.5	holds shape
Dense	30–50	low penetration	Stiff	8–15	0.5–1.0	holds shape
Very dense	>50	refusal	Very stiff	15–30	1.0–2.0	low penetration
			Hard	>30	>2.0	refusal

Moisture	
Dry	Little perceptible moisture
Damp	Some perceptible moisture, probably below optimum
Moist	Probably near optimum moisture content
Wet	Much perceptible moisture, probably above optimum; subcategories include soupy and flocculant for increasing moisture content

Minor Constituents	***Percentage*** *(by weight)*
Not identified in description	0–5
Slightly (clayey, silty, etc.)	5–12
Clayey, silty, sandy, gravelly	12–30
Very (clayey, silty, etc.)	30–50
MAJOR CONSTITUENTS	Majority or >50

Estimated Percentage *(by volume)*	
Dusting	Trace on Surface
Trace	0–5
Occasional	5–10
Moderate	10–30
Substantial	30–50
Majority	>50

Estimated Percentage of Other Minor Constituents
(i.e., shells, wood, organics, plastic, metal, brick, refuse)

Color	
Brown surface	Gray
Brown	Black
Drab olive	Other:

Odor (slight, moderate, strong)

H_2S	None
Petroleum	**Other:**

Core Sample Acceptability Criteria

1. Core tube not overfilled
2. Overlying water is present and surface interval is intact
3. Estimated compaction is not greater than 25%
4. Core tube appears intact without obstruction and blocking

Surface Sediment Sample Acceptability Criteria (PSEP)

1. Overlying water is present
2. Water has low turbidity
3. Sampler is not overfilled
4. Surface is flat
5. Penetration depth is acceptable

PROTOCOL MODIFICATION FORM

Project Name and Number: _____

Material to be Sampled: _____

Measurement Parameter: _____

Standard Procedure for Field Collection & Laboratory Analysis (cite reference):

Reason for Change in Field Procedure or Analysis Variation: _____

Variation from Field or Analytical Procedure: _____

Special Equipment, Materials or Personnel Required: _____

Initiator's Name: _____ Date: _____

Project Officer: _____ Date: _____

QA Officer: _____ Date: _____

APPENDIX C. LABORATORY METHOD DETECTION LIMITS AND REPORTING LIMITS

Table C-1. Subsurface sediment chemistry analytes and respective method detection limits and reporting limits

METHOD AND ANALYTE	UNIT	METHOD DETECTION LIMIT	REPORTING LIMIT
EPA 8082 – PCB Aroclors[a]			
Aroclor 1260	µg/kg dw	0.397	4
Aroclor 1016	µg/kg dw	0.397	4
Aroclor 1254	µg/kg dw	0.397	4
Aroclor 1221	µg/kg dw	0.397	4
Aroclor 1232	µg/kg dw	0.397	4
Aroclor 1248	µg/kg dw	0.397	4
Aroclor 1242	µg/kg dw	0.397	4
EPA 1613B – Dioxins/furans[b]			
2,3,7,8-TCDD	ng/kg dw	0.036	1.0
1,2,3,7,8-PeCDD	ng/kg dw	0.069	5.0
1,2,3,4,7,8-HxCDD	ng/kg dw	0.095	5.0
1,2,3,6,7,8-HxCDD	ng/kg dw	0.114	5.0
1,2,3,7,8,9-HxCDD	ng/kg dw	0.081	5.0
1,2,3,4,6,7,8-HpCDD	ng/kg dw	0.246	5.0
OCDD	ng/kg dw	2.390	10
2,3,7,8-TCDF	ng/kg dw	0.025	1.0
1,2,3,7,8-PeCDF	ng/kg dw	0.085	5.0
2,3,4,7,8-PeCDF	ng/kg dw	0.101	5.0
1,2,3,4,7,8-HxCDF	ng/kg dw	0.101	5.0
1,2,3,6,7,8-HxCDF	ng/kg dw	0.078	5.0
1,2,3,7,8,9-HxCDF	ng/kg dw	0.076	5.0
2,3,4,6,7,8-HxCDF	ng/kg dw	0.056	5.0
1,2,3,4,6,7,8-HpCDF	ng/kg dw	0.129	5.0
1,2,3,4,7,8,9-HpCDF	ng/kg dw	0.134	5.0
OCDF	ng/kg dw	0.150	10
EPA 8081A – Organochlorine pesticides			
2,4'-DDD	µg/kg dw	0.037	2.0
2,4'-DDE	µg/kg dw	0.033	2.0
2,4'-DDT	µg/kg dw	0.091	2.0
4,4'-DDD	µg/kg dw	0.095	2.0
4,4'-DDE	µg/kg dw	0.125	2.0
4,4'-DDT	µg/kg dw	0.199	2.0
Aldrin	µg/kg dw	0.044	1.0
alpha-BHC	µg/kg dw	0.051	1.0
alpha-Chlordane	µg/kg dw	0.058	1.0
beta-BHC	µg/kg dw	0.091	1.0
delta-BHC	µg/kg dw	0.021	1.0
Dieldrin	µg/kg dw	0.085	2.0

Table C-1, cont.

METHOD AND ANALYTE	UNIT	METHOD DETECTION LIMIT	REPORTING LIMIT
Endosulfan I	µg/kg dw	0.063	1.0
Endosulfan II	µg/kg dw	0.125	2.0
Endosulfan sulfate	µg/kg dw	0.148	2.0
Endrin	µg/kg dw	0.082	2.0
Endrin aldehyde	µg/kg dw	0.184	2.0
gamma-BHC (Lindane)	µg/kg dw	0.090	1.0
gamma-Chlordane	µg/kg dw	0.120	1.0
Heptachlor	µg/kg dw	0.073	1.0
Heptachlor epoxide	µg/kg dw	0.054	1.0
Hexachlorobenzene	µg/kg dw	0.066	1.0
Hexachlorobutadiene	µg/kg dw	0.132	1.0
Methoxychlor	µg/kg dw	1.12	10.0
Mirex	µg/kg dw	0.013	2.0
Oxy-chlordane	µg/kg dw	0.123	2.0
trans-Nonachlor	µg/kg dw	0.024	2.0
cis-Nonachlor	µg/kg dw	0.055	2.0
Toxaphene	µg/kg dw	2.96	100
EPA 8270D– SVOCs[c]			
1,3-Dichlorobenzene	mg/kg dw	0.00840	0.02
1-Methylnaphthalene	mg/kg dw	0.00691	0.02
2,4,5-Trichlorophenol	mg/kg dw	0.00595	0.10
2,4,6-Trichlorophenol	mg/kg dw	0.00878	0.10
2,4-Dichlorophenol	mg/kg dw	0.00830	0.10
2,4-Dinitrophenol	mg/kg dw	0.0294	0.20
2,4-Dinitrotoluene	mg/kg dw	0.0103	0.10
2,6-Dinitrotoluene	mg/kg dw	0.0122	0.10
2-Chloronaphthalene	mg/kg dw	0.00916	0.02
2-Chlorophenol	mg/kg dw	0.00902	0.20
2-Methyl-4,6-dinitrophenol	mg/kg dw	0.110	0.20
2-Methylnaphthalene	mg/kg dw	0.0183	0.02
2-Nitroaniline	mg/kg dw	0.0542	0.10
2-Nitrophenol	mg/kg dw	0.00878	0.10
3,3'-Dichlorobenzidine	mg/kg dw	0.0474	0.10
3-Nitroaniline	mg/kg dw	0.0532	0.10
4-Bromophenyl phenyl ether	mg/kg dw	0.0129	0.02
4-Chloro-3-methylphenol	mg/kg dw	0.0101	0.10
4-Chloroaniline	mg/kg dw	0.0399	0.10
4-Chlorophenyl phenyl ether	mg/kg dw	0.0120	0.02
4-Methylphenol	mg/kg dw	0.00730	0.02
4-Nitroaniline	mg/kg dw	0.0255	0.10
4-Nitrophenol	mg/kg dw	0.0370	0.10
Acenaphthene	mg/kg dw	0.0104	0.02
Acenaphthylene	mg/kg dw	0.00938	0.02
Aniline	mg/kg dw	0.00964	0.02
Anthracene	mg/kg dw	0.00795	0.02
Benz(a)anthracene	mg/kg dw	0.00867	0.02
Benzo(a)pyrene	mg/kg dw	0.00805	0.02
Benzo(b)fluoranthene	mg/kg dw	0.00863	0.02

Table C-1, cont.

Method and Analyte	Unit	Method Detection Limit	Reporting Limit
Benzo(g,h,i)perylene	mg/kg dw	0.00852	0.02
Benzo(k)fluoranthene	mg/kg dw	0.00798	0.02
Bis(2-chloroethoxy)methane	mg/kg dw	0.0123	0.02
Bis(2-chloroethyl) ether	mg/kg dw	0.0119	0.02
Bis(2-chloroisopropyl) ether	mg/kg dw	0.0120	0.02
Bis(2-ethylhexyl) phthalate	mg/kg dw	0.0110	0.02
Chrysene	mg/kg dw	0.00965	0.02
Dibenz(a,h)anthracene	mg/kg dw	0.00847	0.02
Dibenzofuran	mg/kg dw	0.0171	0.02
Diethyl phthalate	mg/kg dw	0.0106	0.02
Dimethyl phthalate	mg/kg dw	0.00938	0.02
Di-n-butyl phthalate	mg/kg dw	0.00664	0.02
Di-n-octyl phthalate	mg/kg dw	0.0102	0.02
Fluoranthene	mg/kg dw	0.00857	0.02
Fluorene	mg/kg dw	0.0116	0.02
Hexachlorocyclopentadiene	mg/kg dw	0.0445	0.10
Hexachloroethane	mg/kg dw	0.00968	0.02
Indeno(1,2,3-cd)pyrene	mg/kg dw	0.00618	0.02
Isophorone	mg/kg dw	0.0110	0.02
Naphthalene	mg/kg dw	0.0117	0.02
Nitrobenzene	mg/kg dw	0.0105	0.02
Phenanthrene	mg/kg dw	0.0103	0.02
Phenol	mg/kg dw	0.0122	0.02
Pyrene	mg/kg dw	0.00938	0.02
EPA 8270-SIM – SVOCs			
1,2,4-Trichlorobenzene	mg/kg dw	0.001638	0.0067
1,2-Dichlorobenzene	mg/kg dw	0.001347	0.0067
1,4-Dichlorobenzene	mg/kg dw	0.002205	0.0067
2,4-Dimethylphenol	mg/kg dw	0.003856	0.0067
2-Methylphenol	mg/kg dw	0.003379	0.0067
Benzoic acid	mg/kg dw	0.052723	0.067
Benzyl alcohol	mg/kg dw	0.015547	0.033
Butyl benzyl phthalate	mg/kg dw	0.004000	0.0067
Hexachlorobenzene	mg/kg dw	0.001966	0.0067
Hexachlorobutadiene	mg/kg dw	0.002878	0.0067
n-Nitrosodiphenylamine	mg/kg dw	0.003054	0.0067
N-Nitrosodimethylamine	mg/kg dw	0.023871	0.033
N-Nitrosodi-n-propylamine	mg/kg dw	0.002680	0.033
Pentachlorophenol	mg/kg dw	0.013126	0.033
Krone et al (1989) – Butyltins			
Di-n-butyltin	µg/kg dw	4.79	6.0
n-Butyltin	µg/kg dw	4.51	6.0
Tri-n-butyltin	µg/kg dw	1.33	6.0
EPA 6010B – Metals			
Antimony	mg/kg dw	0.77	5.0
Arsenic	mg/kg dw	0.78	5.0
Cadmium	mg/kg dw	0.04	0.2
Chromium	mg/kg dw	0.09	0.5

Table C-1, cont.

METHOD AND ANALYTE	UNIT	METHOD DETECTION LIMIT	REPORTING LIMIT
Cobalt	mg/kg dw	0.04	0.3
Copper	mg/kg dw	0.06	0.2
Lead	mg/kg dw	0.11	2.0
Molybdenum	mg/kg dw	0.06	0.5
Nickel	mg/kg dw	0.20	1.0
Selenium	mg/kg dw	1.24	5.0
Silver	mg/kg dw	0.04	0.3
Thallium	mg/kg dw	0.82	5.0
Vanadium	mg/kg dw	0.03	0.3
Zinc	mg/kg dw	0.34	0.6
EPA 7471A – Mercury			
Mercury	µg/kg dw	0.003	0.05

[a] Samples will be screened prior to PCB Aroclor analysis. Samples with detected Aroclors greater than 30 µg/kg dw will be prepared using a standard preparatory technique providing an RL of 20 µg/kg dw. Samples with no detected Aroclors or with detected Aroclors at concentrations less than 30 µg/kg dw will be prepared using the low-level method with an RL of 4 µg/kg dw.

[b] Reporting limits for dioxin/furan congeners analyzed by Axys are equivalent to lower calibration limits

[c] The SVOC method will be calibrated to quantify DDT isomers in addition to standard SVOC analytes. These data will be used to confirm higher concentrations reported by Method 8081A because of the possible interference in the DDT quantifications due to the presence of PCB congeners. For DDT isomer MDLs and RLs, please refer to those presented for Method 8081A.

APPENDIX D. HISTORICAL SUBSURFACE SEDIMENT LOCATIONS AND SQS/SL OR CSL/ML EXCEEDANCES

Table D-1 presents a list of detected SQS or CSL exceedances at historical subsurface sediment locations. Detected SL or ML exceedances are presented for chemicals without SMS criteria. Figures D-1a through D-1d (separate PDF) show historical subsurface sediment locations, and Figures D-2a through D-2d (separate PDF) show historical SQS or CSL exceedances by depth at each location (with the exception of subsurface sediment locations within the Duwamish / Diagonal, Slip 4, Boeing Plant 2, and T-117 early action areas), as well as targeted Phase 2 subsurface sediment sampling locations.

Table D-1. Location-specific exceedances of SQS/SL or CSL/ML in Phase 2 LDW historical surface sediment chemistry database

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
DSOAvertchar									
DUW102	DUW102-0000	1275455	196127	0	18	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	5.3	0.98
DUW102	DUW102-0010	1275455	196127	30	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	4.5	0.59
DUW103	DUW103-0000	1275462	196135	0	21	> CSL/ML, Detect	PCBs (total calc'd)	6.7	1.2
DUW103	DUW103-0010	1275462	196135	30	52	> CSL/ML, Detect	PCBs (total calc'd)	9.8	1.8
DUW107	DUW107-0020	1273060	198141	61	85	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	4.6	0.85
DUW111	DUW111-0020	1273539	197724	61	91	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	4.7	0.86
DUW111	DUW111-0030	1273539	197724	91	113	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.3	0.25
DUW112	DUW112-0020	1273659	197708	61	82	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.5	0.64
DUW113	DUW113-0020	1273796	197466	61	85	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	4.7	0.86
DUW115	DUW115-0020	1274031	197243	61	91	> CSL/ML, Detect	PCBs (total calc'd)	19	3.5
DUW115	DUW115-0040	1274031	197243	122	143	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.9	0.35
DUW115	DUW115-0050	1274031	197243	152	162	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.3	0.17
DUW117	DUW117-0020	1274340	196969	61	91	> CSL/ML, Detect	PCBs (total calc'd)	55	10
DUW117	DUW117-0040	1274340	196969	122	152	> CSL/ML, Detect	PCBs (total calc'd)	11	2.0
DUW122	DUW122-0020	1274824	196586	61	91	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.0	0.26
DUW123	DUW123-0020	1274908	196586	61	91	> CSL/ML, Detect	PCBs (total calc'd)	13	1.7
DUW123	DUW123-0040	1274908	196586	122	152	> CSL/ML, Detect	PCBs (total calc'd)	9.2	1.7
DUW124	DUW124-0020	1274950	196484	61	76	> CSL/ML, Detect	PCBs (total calc'd)	130	24
DUW124	DUW124-0040	1274950	196484	122	152	> CSL/ML, Detect	PCBs (total calc'd)	8.0	1.5
DUW126	DUW126-0020	1275155	196281	61	91	> CSL/ML, Detect	PCBs (total calc'd)	64	12
DUW126	DUW126-0020	1275155	196281	61	91	> SQS/SL, <= CSL/ML, Detect	Zinc	1.3	0.54
DUW126	DUW126-0030	1275155	196281	91	116	> CSL/ML, Detect	PCBs (total calc'd)	16	3.0
DUW128	DUW128-0020	1275341	196155	61	79	> CSL/ML, Detect	Mercury	1.6	1.1
DUW128	DUW128-0020	1275341	196155	61	79	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	4.8	0.89
DUW128	DUW128-0030	1275341	196155	91	116	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.8	0.37
DUW129	DUW129-0020	1275308	196114	61	85	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.0	0.37
DUW129	DUW129-0040	1275308	196114	122	152	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.8	0.34
DUW132	DUW132-0020	1275528	195964	61	91	> CSL/ML, Detect	PCBs (total calc'd)	7.0	1.3
DUW132	DUW132-0020	1275528	195964	61	91	> CSL/ML, Detect	Chromium	1.2	1.1
DUW132	DUW132-0020	1275528	195964	61	91	> CSL/ML, Detect	Cadmium	3.7	2.8
DUW132	DUW132-0020	1275528	195964	61	91	> SQS/SL, <= CSL/ML, Detect	Zinc	1.6	0.70
DUW132	DUW132-0030	1275528	195964	91	122	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	4.7	0.86

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
DUW133	DUW133-0020	1275584	195877	61	82	> CSL/ML, Detect	PCBs (total calc'd)	120	22
DUW133	DUW133-0040	1275584	195877	122	149	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.4	0.31
DUW134	DUW134-0020	1275637	195856	61	91	> CSL/ML, Detect	Cadmium	1.9	1.5
DUW134	DUW134-0020	1275637	195856	61	91	> CSL/ML, Detect	Copper	1.1	1.1
DUW134	DUW134-0020	1275637	195856	61	91	> CSL/ML, Detect	PCBs (total calc'd)	150	28
DUW134	DUW134-0020	1275637	195856	61	91	> CSL/ML, Detect	Zinc	4.3	1.8
DUW134	DUW134-0030	1275637	195856	91	122	> CSL/ML, Detect	PCBs (total calc'd)	20	3.8
DUW134	DUW134-0040	1275637	195856	122	152	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.6	0.29
DUW135	DUW135-0020	1275670	195802	61	91	> CSL/ML, Detect	Silver	1.2	1.2
DUW135	DUW135-0020	1275670	195802	61	91	> CSL/ML, Detect	Zinc	2.8	1.2
DUW135	DUW135-0020	1275670	195802	61	91	> CSL/ML, Detect	Copper	1.5	1.5
DUW135	DUW135-0020	1275670	195802	61	91	> CSL/ML, Detect	Cadmium	1.6	1.2
DUW135	DUW135-0020	1275670	195802	61	91	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.7	0.51
DUW135	DUW135-0040	1275670	195802	122	152	> CSL/ML, Detect	PCBs (total calc'd)	9.4	1.7
DUW94	DUW94-0040	1275471	196120	122	152	> CSL/ML, Detect	PCBs (total calc'd)	24	4.5
DUW94	DUW94-0050	1275471	196120	152	183	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.4	0.31
DUW96	DUW96-0040	1275465	196124	122	152	> CSL/ML, Detect	PCBs (total calc'd)	31	5.8
DUW99	DUW99-0000	1275461	196129	0	27	> CSL/ML, Detect	PCBs (total calc'd)	220	41
DUW99	DUW99-0010	1275461	196129	30	85	> CSL/ML, Detect	PCBs (total calc'd)	91	17
DSOAvertchar2									
DUW137	DUW137-0020	1273080	198148	61	91	> CSL/ML, Detect	PCBs (total calc'd)	28	5.2
DUW137	DUW137-0030	1273080	198148	91	110	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.0	0.37
DUW140	DUW140-0020	1273545	197732	61	91	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.8	0.33
DUW142	DUW142-0020	1273618	197657	61	82	> CSL/ML, Detect	PCBs (total calc'd)	8.0	1.5
DUW142	DUW142-0030	1273618	197657	91	101	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.4	0.27
DUW144	DUW144-0020	1273808	197477	61	85	> CSL/ML, Detect	PCBs (total calc'd)	6.4	1.2
DUW144	DUW144-0030	1273808	197477	91	107	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.5	0.28
DUW145	DUW145-0020	1273812	197489	61	79	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.5	0.65
DUW145	DUW145-0030	1273812	197489	91	116	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.5	0.27
DUW146	DUW146-0020	1274051	197260	61	91	> CSL/ML, Detect	PCBs (total calc'd)	7.9	1.5
DUW146	DUW146-0030	1274051	197260	91	110	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.6	0.66
DUW147	DUW147-0020	1274055	197272	61	91	> CSL/ML, Detect	PCBs (total calc'd)	8.7	1.6
DUW147	DUW147-0030	1274055	197272	91	110	> CSL/ML, Detect	PCBs (total calc'd)	7.8	1.4
DUW147	DUW147-0040	1274055	197272	122	125	> CSL/ML, Detect	PCBs (total calc'd)	11	2.0
DUW149	DUW149-0020	1274221	197105	61	91	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.9	0.36
DUW168	DUW168-0020	1274480	196877	61	91	> CSL/ML, Detect	PCBs (total calc'd)	18	3.4
DUW168	DUW168-0030	1274480	196877	91	116	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.6	0.29

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
Duw/Diag-1									
DUD006	L4378-10	1267092	209059	135	150	> ML, Detect	DDTs (total-calc'd)	12	1.2
DUD006	L4378-10	1267092	209059	135	150	> CSL/ML, Detect	PCBs (total calc'd)	11	2.1
DUD006	L4378-10	1267092	209059	135	150	> CSL/ML, Detect	Lead	1.6	1.4
DUD006	L4378-10	1267092	209059	135	150	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	7.7	4.6
DUD006	L4378-10	1267092	209059	135	150	> CSL/ML, Detect	Cadmium	3.5	2.7
DUD006	L4378-10	1267092	209059	135	150	> CSL/ML, Detect	Mercury	4.1	2.9
DUD006	L4378-10	1267092	209059	135	150	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.3	1.3
DUD006	L4378-10	1267092	209059	135	150	> SQS/SL, <= CSL/ML, Detect	Butyl benzyl phthalate	1.0	0.077
DUD006	L4378-10	1267092	209059	135	150	> SQS/SL, <= CSL/ML, Detect	Dibenzo(a,h)anthracene	1.2	0.44
DUD006	L4378-10	1267092	209059	135	150	> SQS/SL, <= CSL/ML, Detect	Indeno(1,2,3-cd)pyrene	1.6	0.63
DUD006	L4378-10	1267092	209059	135	150	> SQS/SL, <= CSL/ML, Detect	1,4-Dichlorobenzene	1.1	0.38
DUD006	L4378-10	1267092	209059	135	150	> SQS/SL, <= CSL/ML, Detect	Benzo(a)pyrene	1.6	0.73
DUD006	L4378-10	1267092	209059	135	150	> SQS/SL, <= CSL/ML, Detect	Benzo(g,h,i)perylene	1.6	0.64
DUD006	L4378-10	1267092	209059	135	150	> SQS/SL, <= CSL/ML, Detect	Benzofluoranthenes (total-calc'd)	1.3	0.68
DUD006	L4378-4	1267092	209059	15	30	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	4.3	2.6
DUD006	L4378-4	1267092	209059	15	30	> CSL/ML, Detect	1,4-Dichlorobenzene	2.9	1.0
DUD006	L4378-4	1267092	209059	15	30	> CSL/ML, Detect	Copper	1.1	1.1
DUD006	L4378-4	1267092	209059	15	30	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.1	1.1
DUD006	L4378-4	1267092	209059	15	30	> SQS/SL, <= CSL/ML, Detect	Zinc	1.1	0.47
DUD006	L4378-4	1267092	209059	15	30	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.9	0.71
DUD006	L4378-4	1267092	209059	15	30	> SQS/SL, <= CSL/ML, Detect	Butyl benzyl phthalate	1.2	0.088
DUD006	L4378-5	1267092	209059	30	45	> CSL/ML, Detect	PCBs (total calc'd)	6.2	1.1
DUD006	L4378-5	1267092	209059	30	45	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	3.3	2.0
DUD006	L4378-5	1267092	209059	30	45	> CSL/ML, Detect	1,4-Dichlorobenzene	3.5	1.2
DUD006	L4378-5	1267092	209059	30	45	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.2	1.2
DUD006	L4378-5	1267092	209059	30	45	> SQS/SL, <= CSL/ML, Detect	Mercury	1.0	0.71
DUD006	L4378-5	1267092	209059	30	45	> SL, <= ML, Detect	DDTs (total-calc'd)	1.6	0.16
DUD006	L4378-6	1267092	209059	45	60	> CSL/ML, Detect	Lead	1.9	1.6
DUD006	L4378-6	1267092	209059	45	60	> CSL/ML, Detect	Mercury	1.7	1.2
DUD006	L4378-6	1267092	209059	45	60	> CSL/ML, Detect	1,4-Dichlorobenzene	10	3.6
DUD006	L4378-6	1267092	209059	45	60	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	6.4	3.8
DUD006	L4378-6	1267092	209059	45	60	> CSL/ML, Detect	Cadmium	1.5	1.2
DUD006	L4378-6	1267092	209059	45	60	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.2	1.2
DUD006	L4378-6	1267092	209059	45	60	> SQS/SL, <= CSL/ML, Detect	Butyl benzyl phthalate	1.3	0.096
DUD006	L4378-6	1267092	209059	45	60	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.5	0.46
DUD006	L4378-6	1267092	209059	45	60	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	1.1	0.69

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
DUD006	L4378-7	1267092	209059	60	75	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	3.3	2.0
DUD006	L4378-7	1267092	209059	60	75	> CSL/ML, Detect	Mercury	2.7	1.9
DUD006	L4378-7	1267092	209059	60	75	> CSL/ML, Detect	Butyl benzyl phthalate	17	1.3
DUD006	L4378-7	1267092	209059	60	75	> CSL/ML, Detect	Cadmium	2.5	1.9
DUD006	L4378-7	1267092	209059	60	75	> CSL/ML, Detect	Lead	2.0	1.7
DUD006	L4378-7	1267092	209059	60	75	> CSL/ML, Detect	N-Nitrosodiphenylamine	1.1	1.1
DUD006	L4378-7	1267092	209059	60	75	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.2	1.2
DUD006	L4378-7	1267092	209059	60	75	> SQS/SL, <= CSL/ML, Detect	Phenol	2.2	0.77
DUD006	L4378-7	1267092	209059	60	75	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.8	0.70
DUD006	L4378-7	1267092	209059	60	75	> SQS/SL, <= CSL/ML, Detect	1,4-Dichlorobenzene	2.4	0.83
DUD006	L4378-8	1267092	209059	75	90	> CSL/ML, Detect	N-Nitrosodiphenylamine	2.6	2.6
DUD006	L4378-8	1267092	209059	75	90	> CSL/ML, Detect	PCBs (total calc'd)	15	2.9
DUD006	L4378-8	1267092	209059	75	90	> CSL/ML, Detect	1,4-Dichlorobenzene	4.3	1.5
DUD006	L4378-8	1267092	209059	75	90	> CSL/ML, Detect	Lead	2.0	1.7
DUD006	L4378-8	1267092	209059	75	90	> CSL/ML, Detect	Mercury	8.0	5.6
DUD006	L4378-8	1267092	209059	75	90	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	5.1	3.1
DUD006	L4378-8	1267092	209059	75	90	> CSL/ML, Detect	Cadmium	1.4	1.0
DUD006	L4378-8	1267092	209059	75	90	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.2	1.2
DUD006	L4378-8	1267092	209059	75	90	> SQS/SL, <= CSL/ML, Detect	Acenaphthene	3.3	0.93
DUD006	L4378-8	1267092	209059	75	90	> SQS/SL, <= CSL/ML, Detect	Benzo(a)anthracene	1.2	0.47
DUD006	L4378-8	1267092	209059	75	90	> SQS/SL, <= CSL/ML, Detect	Benzo(a)pyrene	1.5	0.69
DUD006	L4378-8	1267092	209059	75	90	> SQS/SL, <= CSL/ML, Detect	Benzo(g,h,i)perylene	1.5	0.58
DUD006	L4378-8	1267092	209059	75	90	> SQS/SL, <= CSL/ML, Detect	Benzofluoranthenes (total-calc'd)	1.2	0.62
DUD006	L4378-8	1267092	209059	75	90	> SQS/SL, <= CSL/ML, Detect	Chrysene	1.4	0.33
DUD006	L4378-8	1267092	209059	75	90	> SQS/SL, <= CSL/ML, Detect	Dibenzofuran	1.6	0.42
DUD006	L4378-8	1267092	209059	75	90	> SQS/SL, <= CSL/ML, Detect	Fluoranthene	1.3	0.17
DUD006	L4378-8	1267092	209059	75	90	> SQS/SL, <= CSL/ML, Detect	Fluorene	2.0	0.57
DUD006	L4378-8	1267092	209059	75	90	> SQS/SL, <= CSL/ML, Detect	Indeno(1,2,3-cd)pyrene	1.5	0.57
DUD006	L4378-8	1267092	209059	75	90	> SQS/SL, <= CSL/ML, Detect	Phenanthrene	2.4	0.50
DUD006	L4378-8	1267092	209059	75	90	> SQS/SL, <= CSL/ML, Detect	Total HPAH (calc'd)	1.3	0.23
DUD006	L4378-8	1267092	209059	75	90	> SQS/SL, <= CSL/ML, Detect	Total LPAH (calc'd)	1.1	0.52
DUD006	L4378-8	1267092	209059	75	90	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	1.4	0.88
DUD006	L4378-9	1267092	209059	105	135	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	6.1	3.7
DUD006	L4378-9	1267092	209059	105	135	> CSL/ML, Detect	Cadmium	2.5	1.9
DUD006	L4378-9	1267092	209059	105	135	> CSL/ML, Detect	1,2-Dichlorobenzene	8.0	8.0
DUD006	L4378-9	1267092	209059	105	135	> CSL/ML, Detect	Benzo(a)anthracene	2.6	1.1
DUD006	L4378-9	1267092	209059	105	135	> CSL/ML, Detect	Benzofluoranthenes (total-	2.0	1.0

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
							calc'd)		
DUD006	L4378-9	1267092	209059	105	135	> CSL/ML, Detect	Total LPAH (calc'd)	2.9	1.4
DUD006	L4378-9	1267092	209059	105	135	> CSL/ML, Detect	Phenanthrene	7.9	1.6
DUD006	L4378-9	1267092	209059	105	135	> CSL/ML, Detect	Fluorene	3.7	1.1
DUD006	L4378-9	1267092	209059	105	135	> ML, Detect	DDTs (total-calc'd)	14	1.4
DUD006	L4378-9	1267092	209059	105	135	> CSL/ML, Detect	N-Nitrosodiphenylamine	2.3	2.3
DUD006	L4378-9	1267092	209059	105	135	> CSL/ML, Detect	Mercury	1.9	1.3
DUD006	L4378-9	1267092	209059	105	135	> CSL/ML, Detect	Benzo(g,h,i)perylene	2.7	1.1
DUD006	L4378-9	1267092	209059	105	135	> CSL/ML, Detect	Lead	3.1	2.6
DUD006	L4378-9	1267092	209059	105	135	> CSL/ML, Detect	PCBs (total calc'd)	20	3.7
DUD006	L4378-9	1267092	209059	105	135	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.2	1.2
DUD006	L4378-9	1267092	209059	105	135	> CSL/ML, Non-detect	Hexachlorobutadiene	1.7	1.1
DUD006	L4378-9	1267092	209059	105	135	> SQS/SL, <= CSL/ML, Detect	Dibenzo(a,h)anthracene	1.2	0.44
DUD006	L4378-9	1267092	209059	105	135	> SQS/SL, <= CSL/ML, Detect	Chrysene	2.8	0.67
DUD006	L4378-9	1267092	209059	105	135	> SQS/SL, <= CSL/ML, Detect	Total HPAH (calc'd)	2.8	0.51
DUD006	L4378-9	1267092	209059	105	135	> SQS/SL, <= CSL/ML, Detect	Benzo(a)pyrene	1.9	0.92
DUD006	L4378-9	1267092	209059	105	135	> SQS/SL, <= CSL/ML, Detect	Fluoranthene	4.1	0.54
DUD006	L4378-9	1267092	209059	105	135	> SQS/SL, <= CSL/ML, Detect	Butyl benzyl phthalate	2.6	0.20
DUD006	L4378-9	1267092	209059	105	135	> SQS/SL, <= CSL/ML, Detect	Acenaphthene	3.4	0.94
DUD006	L4378-9	1267092	209059	105	135	> SQS/SL, <= CSL/ML, Detect	Indeno(1,2,3-cd)pyrene	2.5	0.96
DUD020	L4378-13	1267003	209068	15	30	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	7.3	4.4
DUD020	L4378-13	1267003	209068	15	30	> CSL/ML, Detect	Mercury	2.9	2.0
DUD020	L4378-13	1267003	209068	15	30	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.7	1.7
DUD020	L4378-13	1267003	209068	15	30	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.0	0.37
DUD020	L4378-13	1267003	209068	15	30	> SQS/SL, <= CSL/ML, Detect	Butyl benzyl phthalate	6.2	0.47
DUD020	L4378-13	1267003	209068	15	30	> SL, <= ML, Detect	DDTs (total-calc'd)	1.6	0.16
DUD020	L4378-14	1267003	209068	30	45	> CSL/ML, Detect	Mercury	1.5	1.0
DUD020	L4378-14	1267003	209068	30	45	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.8	1.1
DUD020	L4378-14	1267003	209068	30	45	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.4	1.4
DUD020	L4378-14	1267003	209068	30	45	> SQS/SL, <= CSL/ML, Detect	Lead	1.1	0.94
DUD020	L4378-15	1267003	209068	45	60	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	3.9	2.4
DUD020	L4378-15	1267003	209068	45	60	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.9	1.9
DUD020	L4378-15	1267003	209068	45	60	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.0	0.38
DUD020	L4378-16	1267003	209068	60	75	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	2.9	1.7
DUD020	L4378-16	1267003	209068	60	75	> ML, Detect	DDTs (total-calc'd)	12	1.2
DUD020	L4378-16	1267003	209068	60	75	> CSL/ML, Detect	Mercury	2.9	2.0
DUD020	L4378-16	1267003	209068	60	75	> CSL/ML, Detect	PCBs (total calc'd)	9.0	1.7

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
DUD020	L4378-16	1267003	209068	60	75	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.5	1.5
DUD020	L4378-17	1267003	209068	75	90	> CSL/ML, Detect	Mercury	2.2	1.5
DUD020	L4378-17	1267003	209068	75	90	> CSL/ML, Detect	PCBs (total calc'd)	9.8	1.8
DUD020	L4378-17	1267003	209068	75	90	> CSL/ML, Detect	Lead	2.7	2.3
DUD020	L4378-17	1267003	209068	75	90	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	4.1	2.5
DUD020	L4378-17	1267003	209068	75	90	> ML, Detect	DDTs (total-calc'd)	12	1.2
DUD020	L4378-17	1267003	209068	75	90	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.4	1.4
DUD020	L4378-17	1267003	209068	75	90	> SQS/SL, <= CSL/ML, Detect	Cadmium	1.3	0.96
DUD020	L4378-17	1267003	209068	75	90	> SQS/SL, <= CSL/ML, Detect	Zinc	1.1	0.48
Duw/Diag-2									
DUD027	L8542-35	1267100	208451	0	91	> CSL/ML, Detect	Mercury	4.9	3.4
DUD027	L8542-35	1267100	208451	0	91	> CSL/ML, Detect	Silver	2.0	2.0
DUD027	L8542-35	1267100	208451	0	91	> CSL/ML, Detect	Lead	27	23
DUD027	L8542-35	1267100	208451	0	91	> CSL/ML, Detect	Chromium	4.2	4.1
DUD027	L8542-35	1267100	208451	0	91	> CSL/ML, Detect	Cadmium	1.5	1.1
DUD027	L8542-35	1267100	208451	0	91	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.9	1.9
DUD027	L8542-35	1267100	208451	0	91	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.9	0.53
DUD027	L8542-36	1267100	208451	91	183	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.5	1.5
DUD027	L9142-2	1267100	208451	183	274	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.4	1.4
DUD206	L8542-28	1267277	208630	0	91	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.2	1.2
DUD206	L8542-28	1267277	208630	0	91	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	3.1	0.28
DUD206	L8542-28	1267277	208630	0	91	> SQS/SL, <= CSL/ML, Non-detect	N-Nitrosodiphenylamine	1.2	0.85
DUD250	L8542-12	1266871	209564	0	91	> CSL/ML, Detect	PCBs (total calc'd)	5.6	1.0
DUD250	L8542-12	1266871	209564	0	91	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	2.2	1.4
DUD250	L8542-12	1266871	209564	0	91	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.3	1.3
DUD250	L8542-12	1266871	209564	0	91	> SQS/SL, <= CSL/ML, Detect	Butyl benzyl phthalate	1.9	0.14
DUD250	L8542-12	1266871	209564	0	91	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	1.3	0.83
DUD251	L8542-13	1266874	209330	0	91	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.7	1.0
DUD251	L8542-13	1266874	209330	0	91	> CSL/ML, Detect	PCBs (total calc'd)	9.2	1.7
DUD251	L8542-13	1266874	209330	0	91	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.7	1.7
DUD251	L8542-13	1266874	209330	0	91	> SQS/SL, <= CSL/ML, Detect	Butyl benzyl phthalate	1.4	0.11
DUD251	L8542-13	1266874	209330	0	91	> SQS/SL, <= CSL/ML, Detect	Mercury	1.2	0.86
DUD251	L8542-14	1266874	209330	91	183	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.1	1.1
DUD251	L8542-14	1266874	209330	91	183	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.1	0.14
DUD251	L8542-14	1266874	209330	91	183	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	3.0	0.28
DUD251	L8542-14	1266874	209330	91	183	> SQS/SL, <= CSL/ML, Non-detect	N-Nitrosodiphenylamine	1.2	0.83
DUD252	L8542-15	1266990	209320	0	91	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.1	1.1

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
DUD252	L8542-15	1266990	209320	0	91	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	2.9	0.27
DUD252	L8542-15	1266990	209320	0	91	> SQS/SL, <= CSL/ML, Non-detect	N-Nitrosodiphenylamine	1.1	0.80
DUD252	L8542-16	1266990	209320	91	183	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.1	1.1
DUD252	L8542-16	1266990	209320	91	183	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	2.8	0.26
DUD252	L8542-16	1266990	209320	91	183	> SQS/SL, <= CSL/ML, Non-detect	N-Nitrosodiphenylamine	1.1	0.78
DUD253	L10112-3	1266913	209127	183	274	> CSL/ML, Detect	PCBs (total calc'd)	45	8.3
DUD253	L8542-17	1266913	209127	0	91	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.7	1.7
DUD253	L8542-17	1266913	209127	0	91	> SQS/SL, <= CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.3	0.80
DUD253	L8542-17	1266913	209127	0	91	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.4	0.27
DUD253	L8542-18	1266913	209127	91	183	> CSL/ML, Detect	PCBs (total calc'd)	6.8	1.2
DUD253	L8542-18	1266913	209127	91	183	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.7	1.7
DUD253	L8542-18	1266913	209127	91	183	> SQS/SL, <= CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.4	0.83
DUD253	L8542-18	1266913	209127	91	183	> SQS/SL, <= CSL/ML, Detect	Mercury	1.2	0.83
DUD254	L8542-19	1267080	209131	0	91	> CSL/ML, Detect	Mercury	6.6	4.6
DUD254	L8542-19	1267080	209131	0	91	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	2.9	1.8
DUD254	L8542-19	1267080	209131	0	91	> CSL/ML, Detect	1,4-Dichlorobenzene	5.2	1.8
DUD254	L8542-19	1267080	209131	0	91	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.3	1.3
DUD254	L8542-19	1267080	209131	0	91	> SQS/SL, <= CSL/ML, Detect	Butyl benzyl phthalate	2.4	0.18
DUD254	L8542-19	1267080	209131	0	91	> SQS/SL, <= CSL/ML, Detect	Lead	1.1	0.91
DUD254	L8542-19	1267080	209131	0	91	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.6	0.30
DUD254	L8542-20	1267080	209131	91	183	> CSL/ML, Detect	Mercury	3.9	2.7
DUD254	L8542-20	1267080	209131	91	183	> CSL/ML, Detect	PCBs (total calc'd)	11	2.1
DUD254	L8542-20	1267080	209131	91	183	> CSL/ML, Detect	Lead	2.4	2.1
DUD254	L8542-20	1267080	209131	91	183	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	6.6	4.0
DUD254	L8542-20	1267080	209131	91	183	> CSL/ML, Detect	1,4-Dichlorobenzene	3.2	1.1
DUD254	L8542-20	1267080	209131	91	183	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.4	1.4
DUD254	L8542-20	1267080	209131	91	183	> SQS/SL, <= CSL/ML, Detect	Cadmium	1.1	0.87
DUD254	L8542-20	1267080	209131	91	183	> SQS/SL, <= CSL/ML, Detect	Butyl benzyl phthalate	2.0	0.15
DUD254	L8542-20	1267080	209131	91	183	> SQS/SL, <= CSL/ML, Detect	Zinc	1.2	0.52
DUD254	L9142-1	1267080	209131	183	274	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.3	1.3
DUD254	L9142-1	1267080	209131	183	274	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	4.3	0.79
DUD255	L8542-21	1266930	208946	0	91	> CSL/ML, Detect	PCBs (total calc'd)	19	3.5
DUD255	L8542-21	1266930	208946	0	91	> CSL/ML, Detect	Mercury	2.0	1.4
DUD255	L8542-21	1266930	208946	0	91	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	2.3	1.4
DUD255	L8542-21	1266930	208946	0	91	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.7	1.7
DUD255	L8542-22	1266930	208946	91	183	> CSL/ML, Detect	Silver	1.1	1.1
DUD255	L8542-22	1266930	208946	91	183	> CSL/ML, Detect	Mercury	2.4	1.7

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
DUD255	L8542-22	1266930	208946	91	183	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.7	1.7
DUD255	L8542-22	1266930	208946	91	183	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.3	0.43
DUD255	L8542-22	1266930	208946	91	183	> SQS/SL, <= CSL/ML, Detect	Cadmium	1.2	0.93
DUD255	L8542-23	1266930	208946	0	91	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.5	1.5
DUD255	L8542-23	1266930	208946	0	91	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	4.6	0.85
DUD255	L8542-23	1266930	208946	0	91	> SQS/SL, <= CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.3	0.81
DUD255	L8542-39	1266930	208946	91	183	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.4	1.4
DUD256	L8542-24	1267106	208956	0	91	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	3.5	2.1
DUD256	L8542-24	1267106	208956	0	91	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.8	1.8
DUD256	L8542-24	1267106	208956	0	91	> SQS/SL, <= CSL/ML, Detect	Butyl benzyl phthalate	2.3	0.17
DUD256	L8542-24	1267106	208956	0	91	> SQS/SL, <= CSL/ML, Detect	Mercury	1.3	0.93
DUD256	L8542-24	1267106	208956	0	91	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.0	0.37
DUD256	L8542-25	1267106	208956	91	183	> CSL/ML, Detect	PCBs (total calc'd)	7.3	1.4
DUD256	L8542-25	1267106	208956	91	183	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.4	1.4
DUD256	L8542-25	1267106	208956	91	183	> SQS/SL, <= CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.2	0.74
DUD257	L8542-26	1267063	208738	0	91	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.4	1.4
DUD257	L8542-26	1267063	208738	0	91	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.1	0.21
DUD258	L10112-8	1267170	207772	91	183	> CSL/ML, Detect	PCBs (total calc'd)	6.8	1.3
DUD258	L8542-27	1267170	207772	0	91	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	3.1	1.9
DUD258	L8542-27	1267170	207772	0	91	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.9	1.9
DUD258	L8542-27	1267170	207772	0	91	> SQS/SL, <= CSL/ML, Detect	Butyl benzyl phthalate	1.8	0.14
DUD258	L8542-27	1267170	207772	0	91	> SQS/SL, <= CSL/ML, Detect	Mercury	1.1	0.78
DUD258	L8542-27	1267170	207772	0	91	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.6	0.30
DUD260	L8542-29	1267150	208575	0	91	> CSL/ML, Detect	PCBs (total calc'd)	5.9	1.1
DUD260	L8542-29	1267150	208575	0	91	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.8	1.1
DUD260	L8542-29	1267150	208575	0	91	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.5	1.5
DUD260	L8542-29	1267150	208575	0	91	> SQS/SL, <= CSL/ML, Detect	Butyl benzyl phthalate	1.3	0.099
DUD260	L8542-30	1267150	208575	91	183	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.2	1.2
DUD260	L8542-30	1267150	208575	91	183	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.0	0.19
DUD261	L8542-31	1267121	208326	0	91	> CSL/ML, Detect	PCBs (total calc'd)	46	8.5
DUD261	L8542-31	1267121	208326	0	91	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.8	1.8
DUD261	L8542-31	1267121	208326	0	91	> SQS/SL, <= CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.3	0.80
DUD261	L8542-32	1267121	208326	91	183	> CSL/ML, Detect	Mercury	4.9	3.4
DUD261	L8542-32	1267121	208326	91	183	> CSL/ML, Detect	PCBs (total calc'd)	27	5.0
DUD261	L8542-32	1267121	208326	91	183	> CSL/ML, Detect	Cadmium	2.0	1.5
DUD261	L8542-32	1267121	208326	91	183	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	5.9	3.6
DUD261	L8542-32	1267121	208326	91	183	> CSL/ML, Detect	1,2-Dichlorobenzene	1.1	1.1

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
DUD261	L8542-32	1267121	208326	91	183	> CSL/ML, Detect	Silver	2.6	2.6
DUD261	L8542-32	1267121	208326	91	183	> CSL/ML, Non-detect	2,4-Dimethylphenol	2.1	2.1
DUD261	L8542-32	1267121	208326	91	183	> SQS/SL, <= CSL/ML, Detect	1,2,4-Trichlorobenzene	1.2	0.54
DUD261	L8542-32	1267121	208326	91	183	> SQS/SL, <= CSL/ML, Detect	Zinc	1.7	0.72
DUD261	L8542-32	1267121	208326	91	183	> SQS/SL, <= CSL/ML, Non-detect	Benzyl alcohol	1.1	0.82
DUD262	L8542-33	1267158	208441	0	91	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.7	1.0
DUD262	L8542-33	1267158	208441	0	91	> CSL/ML, Detect	Silver	2.5	2.5
DUD262	L8542-33	1267158	208441	0	91	> CSL/ML, Detect	1,2-Dichlorobenzene	1.5	1.5
DUD262	L8542-33	1267158	208441	0	91	> CSL/ML, Detect	PCBs (total calc'd)	15	2.9
DUD262	L8542-33	1267158	208441	0	91	> CSL/ML, Detect	Mercury	2.4	1.7
DUD262	L8542-33	1267158	208441	0	91	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.4	1.4
DUD262	L8542-33	1267158	208441	0	91	> SQS/SL, <= CSL/ML, Detect	1,4-Dichlorobenzene	2.0	0.70
DUD262	L8542-34	1267158	208441	91	183	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.4	1.4
DUD262	L8542-34	1267158	208441	91	183	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	4.7	0.88
DUD262	L8542-34	1267158	208441	91	183	> SQS/SL, <= CSL/ML, Detect	1,4-Dichlorobenzene	1.3	0.44
DuwamYachtClub									
C1	C1	1276029	193283	0	52	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.4	0.62
C2	C2	1276060	193153	0	55	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.7	0.76
C3	C3	1276097	193033	0	52	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.4	0.62
C4	C4	1276116	192985	0	55	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.4	0.64
C5	C5	1276185	192853	0	52	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.7	0.78
C6	C6	1276095	192761	0	67	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.5	0.67
EPA SI									
DR008	SD-DR008-0000A	1267033	209057	0	61	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	4.1	2.5
DR008	SD-DR008-0000A	1267033	209057	0	61	> CSL/ML, Detect	1,4-Dichlorobenzene	13	4.3
DR008	SD-DR008-0000A	1267033	209057	0	61	> CSL/ML, Detect	Mercury	2.2	1.6
DR008	SD-DR008-0000A	1267033	209057	0	61	> SQS/SL, <= CSL/ML, Detect	Zinc	1.0	0.44
DR008	SD-DR008-0000A	1267033	209057	0	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.7	0.32
DR008	SD-DR008-0000A	1267033	209057	0	61	> SQS/SL, <= CSL/ML, Detect	Butyl benzyl phthalate	3.1	0.24
DR008	SD-DR008-0000A	1267033	209057	0	61	> SL, <= ML, Detect	DDTs (total-calc'd)	1.6	0.16
DR008	SD-DR008-0000A	1267033	209057	0	61	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	1.5	0.24
DR008	SD-DR008-0020	1267033	209057	61	122	> CSL/ML, Detect	Mercury	1.5	1.0
DR008	SD-DR008-0020	1267033	209057	61	122	> CSL/ML, Detect	1,4-Dichlorobenzene	5.0	1.7
DR008	SD-DR008-0020	1267033	209057	61	122	> CSL/ML, Detect	PCBs (total calc'd)	6.1	1.1
DR008	SD-DR008-0020	1267033	209057	61	122	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	2.5	1.5
DR008	SD-DR008-0020	1267033	209057	61	122	> SQS/SL, <= CSL/ML, Detect	Butyl benzyl phthalate	6.2	0.48
DR008	SD-DR008-0020	1267033	209057	61	122	> SL, <= ML, Detect	DDTs (total-calc'd)	3.8	0.38

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
DR008	SD-DR008-0020	1267033	209057	61	122	> SQS/SL, <= CSL/ML, Detect	Lead	1.1	0.91
DR008	SD-DR008-0020	1267033	209057	61	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.4	0.40
DR008	SD-DR008-0020	1267033	209057	61	122	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.1	0.51
DR021	SD-DR021-0000A	1267822	206718	0	61	> SL, <= ML, Detect	DDTs (total-calc'd)	1.2	0.12
DR021	SD-DR021-0000A	1267822	206718	0	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.7	0.31
DR021	SD-DR021-0000A	1267822	206718	0	61	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.0	0.33
DR021	SD-DR021-0020	1267822	206718	61	122	> CSL/ML, Detect	PCBs (total calc'd)	13	2.5
DR021	SD-DR021-0020	1267822	206718	61	122	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.7	1.0
DR021	SD-DR021-0020	1267822	206718	61	122	> CSL/ML, Detect	Mercury	1.6	1.1
DR021	SD-DR021-0020	1267822	206718	61	122	> SQS/SL, <= CSL/ML, Detect	Zinc	1.5	0.66
DR021	SD-DR021-0020	1267822	206718	61	122	> SL, <= ML, Detect	DDTs (total-calc'd)	2.9	0.29
DR021	SD-DR021-0020	1267822	206718	61	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.1	0.35
DR025	SD-DR025-0000A	1268230	205416	0	61	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.0	0.33
DR025	SD-DR025-0020	1268230	205416	61	122	> CSL/ML, Detect	Mercury	1.8	1.3
DR025	SD-DR025-0020	1268230	205416	61	122	> SL, <= ML, Detect	DDTs (total-calc'd)	2.5	0.25
DR025	SD-DR025-0020	1268230	205416	61	122	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.8	0.71
DR025	SD-DR025-0020	1268230	205416	61	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.1	0.35
DR044	SD-DR044-0000A	1266577	208216	0	61	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	1.9	0.32
DR044	SD-DR044-0020	1266577	208216	61	122	> CSL/ML, Detect	PCBs (total calc'd)	7.2	1.3
DR044	SD-DR044-0020	1266577	208216	61	122	> SQS/SL, <= CSL/ML, Detect	Mercury	1.2	0.85
DR044	SD-DR044-0020	1266577	208216	61	122	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.1	0.51
DR044	SD-DR044-0020	1266577	208216	61	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.4	0.40
DR054	SD-DR054-0000A	1268074	204727	0	61	> CSL/ML, Detect	Copper	2.1	2.1
DR054	SD-DR054-0000A	1268074	204727	0	61	> CSL/ML, Detect	Zinc	3.9	1.7
DR054	SD-DR054-0000A	1268074	204727	0	61	> CSL/ML, Detect	Arsenic	4.9	3.0
DR054	SD-DR054-0000A	1268074	204727	0	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.1	0.20
DR054	SD-DR054-0000A	1268074	204727	0	61	> SQS/SL, <= CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.3	0.77
DR054	SD-DR054-0000A	1268074	204727	0	61	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.6	0.43
DR054	SD-DR054-0000A	1268074	204727	0	61	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.2	0.56
DR054	SD-DR054-0020	1268074	204727	61	122	> CSL/ML, Detect	Arsenic	11	6.7
DR054	SD-DR054-0020	1268074	204727	61	122	> CSL/ML, Detect	Zinc	3.4	1.5
DR054	SD-DR054-0020	1268074	204727	61	122	> CSL/ML, Detect	Mercury	3.4	2.4
DR054	SD-DR054-0020	1268074	204727	61	122	> CSL/ML, Detect	Copper	1.8	1.8
DR054	SD-DR054-0020	1268074	204727	61	122	> CSL/ML, Detect	Lead	1.4	1.2
DR054	SD-DR054-0020	1268074	204727	61	122	> SQS/SL, <= CSL/ML, Detect	Indeno(1,2,3-cd)pyrene	1.7	0.64
DR054	SD-DR054-0020	1268074	204727	61	122	> SQS/SL, <= CSL/ML, Detect	Total HPAH (calc'd)	1.0	0.19
DR054	SD-DR054-0020	1268074	204727	61	122	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	4.2	0.77

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
DR054	SD-DR054-0020	1268074	204727	61	122	> SQS/SL, <= CSL/ML, Detect	Fluoranthene	1.4	0.19
DR054	SD-DR054-0020	1268074	204727	61	122	> SQS/SL, <= CSL/ML, Detect	Dibenzo(a,h)anthracene	1.2	0.44
DR054	SD-DR054-0020	1268074	204727	61	122	> SQS/SL, <= CSL/ML, Detect	Chrysene	1.0	0.25
DR054	SD-DR054-0020	1268074	204727	61	122	> SQS/SL, <= CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.0	0.61
DR054	SD-DR054-0020	1268074	204727	61	122	> SQS/SL, <= CSL/ML, Detect	Benzo(g,h,i)perylene	1.5	0.62
DR054	SD-DR054-0020	1268074	204727	61	122	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.6	0.74
DR054	SD-DR054-0020	1268074	204727	61	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	3.5	0.58
DR068	SD-DR068-0000A	1266404	209574	0	61	> CSL/ML, Detect	PCBs (total calc'd)	13	2.4
DR068	SD-DR068-0000A	1266404	209574	0	61	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.5	0.65
DR068	SD-DR068-0000A	1266404	209574	0	61	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	3.1	0.51
DR101	SD-DR101-0000A	1269108	202682	0	61	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.4	0.62
DR101	SD-DR101-0000A	1269108	202682	0	61	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.9	0.48
DR101	SD-DR101-0020	1269108	202682	61	122	> SQS/SL, <= CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.3	0.78
DR101	SD-DR101-0020	1269108	202682	61	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.3	0.38
DR101	SD-DR101-0020	1269108	202682	61	122	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.1	0.48
DR106	SD-DR106-0000A	1270217	201545	0	61	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.2	0.53
DR106	SD-DR106-0000A	1270217	201545	0	61	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.5	0.41
DR106	SD-DR106-0020	1270217	201545	61	122	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.3	0.58
DR106	SD-DR106-0020	1270217	201545	61	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.8	0.46
DR112	SD-DR112-0000A	1270202	201166	0	61	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.1	0.35
DR112	SD-DR112-0020	1270202	201166	61	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	1.8	0.30
DR137	SD-DR137-0000A-CC	1270252	200448	0	61	> SL, <= ML, Detect	DDTs (total-calc'd)	2.6	0.26
DR137	SD-DR137-0000A-CC	1270252	200448	0	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.6	0.29
DR137	SD-DR137-0000A-CC	1270252	200448	0	61	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.1	0.35
DR137	SD-DR137-0020-CC	1270252	200448	61	122	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.3	0.43
DR137	SD-DR137-0020-CC	1270252	200448	61	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.0	0.33
DR171	SD-DR171-0000A	1271310	199597	0	61	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.1	0.48
DR171	SD-DR171-0000A	1271310	199597	0	61	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.3	0.38
DR171	SD-DR171-0020	1271310	199597	61	122	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.1	0.48
DR171	SD-DR171-0020	1271310	199597	61	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.3	0.38
DR206	SD-DR206-0000A	1275344	195754	0	61	> CSL/ML, Detect	PCBs (total calc'd)	13	2.4
DR206	SD-DR206-0000A	1275344	195754	0	61	> CSL/ML, Non-detect	Hexachlorobenzene	6.7	1.1
DR206	SD-DR206-0000A	1275344	195754	0	61	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.1	1.4
DR206	SD-DR206-0000A	1275344	195754	0	61	> CSL/ML, Non-detect	1,2-Dichlorobenzene	1.1	1.1
DR206	SD-DR206-0000A	1275344	195754	0	61	> SQS/SL, <= CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.4	0.84
DR206	SD-DR206-0000A	1275344	195754	0	61	> SQS/SL, <= CSL/ML, Detect	Butyl benzyl phthalate	1.0	0.079
DR206	SD-DR206-0020	1275344	195754	61	122	> SL, <= ML, Detect	DDTs (total-calc'd)	1.4	0.14

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
DR206	SD-DR206-0020	1275344	195754	61	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.1	0.35
DR220	SD-DR220-0000A	1276032	194669	0	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.9	0.53
DR220	SD-DR220-0000A	1276032	194669	0	61	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.0	0.46
DR220	SD-DR220-0000A	1276032	194669	0	61	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.2	0.36
DR220	SD-DR220-0020	1276032	194669	61	122	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.0	0.46
DR220	SD-DR220-0020	1276032	194669	61	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.2	0.36
DR224	SD-DR224-0000A	1273359	197554	0	61	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.9	0.85
DR224	SD-DR224-0000A	1273359	197554	0	61	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	4.0	0.67
DR224	SD-DR224-0020	1273359	197554	61	101	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	2.1	0.93
DR224	SD-DR224-0020	1273359	197554	61	101	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	4.4	0.72
DR246	SD-DR246-0000A	1276783	192615	0	61	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	1.9	0.31
DR246	SD-DR246-0020	1276783	192615	61	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	1.8	0.30
DR269	SD-DR269-0000A	1276822	190328	0	61	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.4	0.62
DR269	SD-DR269-0000A	1276822	190328	0	61	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.9	0.48
DR269	SD-DR269-0020	1276822	190328	61	122	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.9	0.85
DR269	SD-DR269-0020	1276822	190328	61	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	4.0	0.67
DR284	SD-DR284-0000A	1276300	192823	0	61	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.1	0.51
DR284	SD-DR284-0000A	1276300	192823	0	61	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.4	0.40
DR284	SD-DR284-0020	1276300	192823	61	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.0	0.33
Glacier NW									
SCDMMU1	SCDMMU1	1268338	203745	0	82	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.8	1.8
SCDMMU1	SCDMMU1	1268338	203745	0	82	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	1.3	0.21
SCDMMU2	SCDMMU2	1268280	203995	0	68	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.7	1.7
SCDMMU2	SCDMMU2	1268280	203995	0	68	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	1.1	0.19
SCDMMU2R	SCDMMU2R-Z	1268280	203995	92	123	> CSL/ML, Detect	Mercury	1.5	1.0
SCDMMU2R	SCDMMU2R-Z	1268280	203995	92	123	> SQS/SL, <= CSL/ML, Detect	Arsenic	1.1	0.68
SCDMMU3	SCDMMU3	1268206	204169	0	172	> CSL/ML, Detect	Arsenic	3.2	1.9
SCDMMU3	SCDMMU3	1268206	204169	0	172	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.7	1.7
SCDMMU3	SCDMMU3	1268206	204169	0	172	> CSL/ML, Non-detect	Bis(2-ethylhexyl)phthalate	2.2	1.4
SCDMMU3	SCDMMU3	1268206	204169	0	172	> SL, <= ML, Detect	DDTs (total-calc'd)	1.6	0.16
SCDMMU3	SCDMMU3	1268206	204169	0	172	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.3	0.43
SCDMMU3	SCDMMU3	1268206	204169	0	172	> SQS/SL, <= CSL/ML, Detect	Zinc	1.9	0.80
SCDMMU3	SCDMMU3	1268206	204169	0	172	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	1.2	0.19
Hardie Gypsum-1									
1	1	1268851	203302	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.6	0.43
2	2	1268883	203173	0	122	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.1	0.19
2	2	1268883	203173	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	1.6	0.26

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
3	3	1268962	202989	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	1.8	0.29
4	4	1268987	202873	0	122	> SQS/SL, <= CSL/ML, Detect	Hexachlorobenzene	1.7	0.28
4	4	1268987	202873	0	122	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.3	0.23
5	5	1268997	202773	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	1.5	0.25
Hardie Gypsum-2									
2b	2b	1268892	203155	0	91	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.1	0.50
3	3	1268958	202981	0	91	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.3	0.59
4	4	1268974	202866	0	91	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.0	0.47
B	B	1268916	203178	0	91	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.1	0.50
C	C	1268981	203013	0	91	> SQS/SL, <= CSL/ML, Detect	Phenanthrene	1.2	0.24
C	C	1268981	203013	0	91	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.0	0.47
D	D	1269020	202886	0	91	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	4.7	0.86
D	D	1269020	202886	0	91	> SL, <= ML, Detect	Dieldrin	1.1	nv
D	D	1269020	202886	0	91	> SQS/SL, <= CSL/ML, Detect	Mercury	1.0	0.73
D	D	1269020	202886	0	91	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.0	0.46
E	E	1269034	202730	0	91	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.3	0.61
E	E	1269034	202730	0	91	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.2	0.56
Hurlen-Boyer									
C1	C1	1271875	198851	0	113	> SL, <= ML, Detect	DDTs (total-calc'd)	1.4	0.14
C1	C1	1271875	198851	0	113	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	1.3	0.22
C2	C2	1271991	198746	0	128	> SQS/SL, <= CSL/ML, Detect	Fluoranthene	1.4	0.19
C2	C2	1271991	198746	0	128	> SQS/SL, <= CSL/ML, Detect	Total HPAH (calc'd)	1.0	0.19
C2	C2	1271991	198746	0	128	> SL, <= ML, Non-detect	DDTs (total-calc'd)	1.2	0.12
C2	C2	1271991	198746	0	128	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	1.1	0.19
C3	C3	1272106	198645	0	101	> CSL/ML, Detect	Acenaphthene	5.8	1.6
C3	C3	1272106	198645	0	101	> SQS/SL, <= CSL/ML, Detect	Fluorene	1.9	0.56
C3	C3	1272106	198645	0	101	> SQS/SL, <= CSL/ML, Detect	Benzo(a)anthracene	1.4	0.56
C3	C3	1272106	198645	0	101	> SQS/SL, <= CSL/ML, Detect	Total LPAH (calc'd)	1.1	0.51
C3	C3	1272106	198645	0	101	> SQS/SL, <= CSL/ML, Detect	Total HPAH (calc'd)	1.7	0.31
C3	C3	1272106	198645	0	101	> SQS/SL, <= CSL/ML, Detect	Phenanthrene	2.4	0.49
C3	C3	1272106	198645	0	101	> SQS/SL, <= CSL/ML, Detect	Dibenzofuran	1.9	0.49
C3	C3	1272106	198645	0	101	> SQS/SL, <= CSL/ML, Detect	Chrysene	1.2	0.28
C3	C3	1272106	198645	0	101	> SQS/SL, <= CSL/ML, Detect	Fluoranthene	3.8	0.50
C3	C3	1272106	198645	0	101	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	1.1	0.17
C3	C3	1272106	198645	0	101	> SL, <= ML, Non-detect	DDTs (total-calc'd)	1.0	0.10
C4	C4	1272268	198483	0	101	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	1.1	0.19
C5	C5	1270986	199683	0	101	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.2	0.56

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
C5	C5	1270986	199683	0	101	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.6	0.43
C6	C6	1271160	199554	0	116	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.3	0.24
C6	C6	1271160	199554	0	116	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	1.8	0.29
JorgensenApril2004									
SD-201	SD-201-0000	1275620	195780	0	30	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.3	0.25
SD-201	SD-201-0010	1275620	195780	30	61	> CSL/ML, Detect	PCBs (total calc'd)	8.8	1.6
SD-201	SD-201-0020	1275620	195780	61	91	> CSL/ML, Detect	PCBs (total calc'd)	14	2.5
SD-201	SD-201-0030	1275620	195780	91	122	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.1	0.21
SD-201	SD-201-0040	1275620	195780	122	152	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.6	0.30
SD-203	SD-203-0000	1275714	195744	0	30	> CSL/ML, Detect	PCBs (total calc'd)	43	7.9
SD-203	SD-203-0010	1275714	195744	30	61	> CSL/ML, Detect	PCBs (total calc'd)	52	9.5
SD-203	SD-203-0010	1275714	195744	30	61	> SQS/SL, <= CSL/ML, Detect	Zinc	1.4	0.59
SD-204	SD-204-0010	1275755	195698	30	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.1	0.20
SD-204	SD-204-0020	1275755	195698	61	91	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.7	0.32
SD-204	SD-204-0030	1275755	195698	91	122	> CSL/ML, Detect	PCBs (total calc'd)	28	5.2
SD-204	SD-204-0040	1275755	195698	122	152	> CSL/ML, Detect	PCBs (total calc'd)	59	11
SD-204	SD-204-0050	1275755	195698	152	183	> CSL/ML, Detect	PCBs (total calc'd)	30	5.5
SD-204	SD-204-0060	1275755	195698	183	210	> CSL/ML, Detect	PCBs (total calc'd)	11	2.0
SD-204	SD-204-0070	1275755	195698	213	238	> CSL/ML, Detect	PCBs (total calc'd)	7.4	1.4
SD-204	SD-204-0080	1275755	195698	244	265	> CSL/ML, Detect	PCBs (total calc'd)	7.9	1.5
SD-206	SD-206-0010	1275811	195606	30	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.0	0.19
SD-210D	SD-210D-0010	1275878	195370	30	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.3	0.25
SD-211	SD-211-0000	1275905	195321	0	30	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	4.9	0.90
SD-211	SD-211-0010	1275905	195321	30	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.0	0.55
SD-211	SD-211-0020	1275905	195321	61	91	> CSL/ML, Detect	PCBs (total calc'd)	8.6	1.6
SD-211	SD-211-0030	1275905	195321	91	122	> CSL/ML, Detect	PCBs (total calc'd)	9.6	1.8
SD-211	SD-211-0040	1275905	195321	122	146	> CSL/ML, Detect	PCBs (total calc'd)	7.3	1.4
SD-212	SD-212-0010	1275902	195277	30	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.1	0.21
SD-215	SD-215-0010	1275848	195466	30	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.9	0.35
SD-216	SD-216-0010	1275932	195184	30	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.2	0.22
SD-216	SD-216-0020	1275932	195184	61	91	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.1	0.57
SD-216	SD-216-0030	1275932	195184	91	122	> CSL/ML, Detect	PCBs (total calc'd)	6.1	1.1
SD-216	SD-216-0040	1275932	195184	122	152	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.5	0.65
SD-216	SD-216-0050	1275932	195184	152	180	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.0	0.36
SD-216	SD-216-0060	1275932	195184	183	213	> CSL/ML, Detect	PCBs (total calc'd)	9.9	1.8
SD-216	SD-216-0070	1275932	195184	213	235	> CSL/ML, Detect	PCBs (total calc'd)	7.9	1.5
SD-217	SD-217-0000	1275950	195130	0	27	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.9	0.36

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
SD-217	SD-217-0010	1275950	195130	30	58	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.8	0.70
SD-217	SD-217-0020	1275950	195130	61	88	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.0	0.37
SD-217	SD-217-0030	1275950	195130	91	113	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.5	0.65
SD-301	SD-301-0000	1275659	195767	0	30	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.5	0.47
SD-301	SD-301-0010	1275659	195767	30	61	> CSL/ML, Detect	Zinc	2.6	1.1
SD-301	SD-301-0010	1275659	195767	30	61	> CSL/ML, Detect	PCBs (total calc'd)	9.0	1.7
SD-301	SD-301-0010	1275659	195767	30	61	> SQS/SL, <= CSL/ML, Detect	Mercury	1.0	0.73
JorgensenAugust2004									
SD-307-C	SD-307-0002	1275804	195673	61	91	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.2	0.16
SD-309-C	SD-309-0001	1275839	195576	30	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.2	0.22
SD-309-C	SD-309-0002	1275839	195576	61	91	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.4	0.63
SD-309-C	SD-309-0003	1275839	195576	91	122	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.1	0.21
SD-309-C	SD-327-0002	1275839	195576	61	91	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	4.2	0.55
SD-310-C	SD-310-0001	1275867	195514	30	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.5	0.27
SD-311-C	SD-311-0001	1275899	195460	30	61	> CSL/ML, Detect	PCBs (total calc'd)	13	2.3
SD-311-C	SD-311-0001	1275899	195460	30	61	> SQS/SL, <= CSL/ML, Detect	Lead	1.1	0.94
SD-311-C	SD-311-0002	1275899	195460	61	91	> CSL/ML, Detect	PCBs (total calc'd)	33	6.1
SD-311-C	SD-311-0003	1275899	195460	91	122	> CSL/ML, Detect	PCBs (total calc'd)	52	9.5
SD-312-C	SD-312-0001	1275919	195427	30	61	> CSL/ML, Detect	PCBs (total calc'd)	14	2.6
SD-312-C	SD-312-0001	1275919	195427	30	61	> SQS/SL, <= CSL/ML, Detect	Zinc	1.1	0.48
SD-312-C	SD-312-0001	1275919	195427	30	61	> SQS/SL, <= CSL/ML, Detect	Lead	1.1	0.97
SD-313-C	SD-313-0001	1275932	195309	30	61	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.4	0.61
SD-313-C	SD-313-0001	1275932	195309	30	61	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.9	0.48
SD-314-C	SD-314-0002	1275967	195237	61	91	> SQS/SL, <= CSL/ML, Non-detect	PCBs (total calc'd)	4.5	0.58
SD-314-C	SD-314-0003	1275967	195237	91	101	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.7	0.22
SD-316-C	SD-316-0001	1275802	195647	30	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.7	0.68
SD-316-C	SD-316-0002	1275802	195647	61	91	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.5	0.64
SD-316-C	SD-316-0003	1275802	195647	91	122	> CSL/ML, Detect	PCBs (total calc'd)	17	3.1
SD-317-C	SD-317-0001	1275821	195632	30	61	> CSL/ML, Detect	PCBs (total calc'd)	6.4	1.2
SD-317-C	SD-317-0002	1275821	195632	61	91	> CSL/ML, Detect	PCBs (total calc'd)	41	7.6
SD-317-C	SD-317-0003	1275821	195632	91	122	> CSL/ML, Detect	PCBs (total calc'd)	17	3.1
SD-320-C	SD-320-0001	1275925	195382	30	61	> CSL/ML, Detect	PCBs (total calc'd)	5.5	1.0
SD-320-C	SD-320-0002	1275925	195382	61	91	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	4.3	0.79
SD-320-C	SD-320-0003	1275925	195382	91	122	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.1	0.20
SD-321-C	SD-321-0001	1275600	195768	30	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.7	0.68
SD-321-C	SD-321-0002	1275600	195768	61	91	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.5	0.28
SD-321-C	SD-321-0003	1275600	195768	91	116	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.4	0.26

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
SD-322-C	SD-322-0001	1275864	195311	30	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	4.2	0.78
SD-322-C	SD-322-0002	1275864	195311	61	91	> CSL/ML, Detect	PCBs (total calc'd)	8.8	1.6
SD-322-C	SD-322-0003	1275864	195311	91	122	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	4.3	0.79
SD-322-C	SD-322-0005	1275864	195311	152	183	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.3	0.42
SD-323-C	SD-323-0001	1275938	195347	30	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.4	0.27
SD-323-C	SD-326-0001	1275938	195347	30	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	4.2	0.77
Lehigh NW									
C2	C-2	1267920	206336	0	122	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.2	0.16
C2	C-2	1267920	206336	0	122	> SL, <= ML, Non-detect	DDTs (total-calc'd)	1.9	0.19
C2	C-2	1267920	206336	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	1.8	0.17
C3	C-3S	1267936	206274	116	152	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	1.7	0.16
Lone Star 92									
C-1	C-1	1268510	204124	0	122	> SQS/SL, <= CSL/ML, Detect	Arsenic	1.5	0.94
C-1	C-1	1268510	204124	0	122	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.3	0.23
C-1	C-1	1268510	204124	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.0	0.33
Lone Star-Hardie Gypum									
c-1	c-1	1269036	202783	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.5	0.41
c-2	c-2	1268972	202971	0	152	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.2	0.36
c-3	c-3	1268925	203167	0	140	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	1.9	0.32
c-4	c-4	1268760	203523	0	122	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.1	0.48
c-4	c-4	1268760	203523	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	4.5	0.75
c-4	c-5	1268760	203523	122	366	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	1.3	0.12
Norfolk-cleanup1									
NFK009	L4321-26	1278564	190154	15	30	> CSL/ML, Detect	1,4-Dichlorobenzene	23	7.8
NFK009	L4321-26	1278564	190154	15	30	> CSL/ML, Detect	Mercury	2.1	1.4
NFK009	L4321-26	1278564	190154	15	30	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.2	1.2
NFK009	L4321-26	1278564	190154	15	30	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.2	0.23
NFK009	L4321-27	1278564	190154	30	45	> CSL/ML, Detect	1,4-Dichlorobenzene	160	56
NFK009	L4321-27	1278564	190154	30	45	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	3.2	1.9
NFK009	L4321-27	1278564	190154	30	45	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.1	1.1
NFK009	L4321-27	1278564	190154	30	45	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	1.5	0.92
NFK009	L4321-28	1278564	190154	45	60	> CSL/ML, Detect	1,4-Dichlorobenzene	32	11
NFK009	L4321-28	1278564	190154	45	60	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.1	1.1
NFK009	L4321-28	1278564	190154	45	60	> SQS/SL, <= CSL/ML, Detect	Butyl benzyl phthalate	3.5	0.26
NFK009	L4321-28	1278564	190154	45	60	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	1.5	0.97
Norfolk-cleanup2									
NFK008	L6725-26	1278497	190203	0	30	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.7	1.7

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
NFK008	L6725-26	1278497	190203	0	30	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.9	0.35
NFK008	L6725-26	1278497	190203	0	30	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.6	0.74
NFK008	L6725-27	1278497	190203	30	60	> CSL/ML, Detect	Mercury	90	63
NFK008	L6725-27	1278497	190203	30	60	> CSL/ML, Detect	PCBs (total calc'd)	320	60
NFK008	L6725-27	1278497	190203	30	60	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.5	1.5
NFK008	L6725-27	1278497	190203	30	60	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.5	0.66
NFK008	L6725-28	1278497	190203	60	90	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.1	1.1
NFK008	L6725-28	1278497	190203	60	90	> SQS/SL, <= CSL/ML, Non-detect	N-Nitrosodiphenylamine	1.1	0.78
NFK008	L6725-28	1278497	190203	60	90	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	2.8	0.26
NFK008	L6725-29	1278497	190203	90	120	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.1	1.1
NFK008	L6725-29	1278497	190203	90	120	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	3.0	0.28
NFK008	L6725-29	1278497	190203	90	120	> SQS/SL, <= CSL/ML, Non-detect	N-Nitrosodiphenylamine	1.2	0.83
NFK008	L7089-1	1278497	190203	0	30	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.1	0.57
NFK008	L7089-2	1278497	190203	30	60	> CSL/ML, Detect	PCBs (total calc'd)	47	8.7
NFK008	L7089-4	1278497	190203	0	30	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.3	0.25
NFK008	L7089-5	1278497	190203	30	60	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.5	0.27
NFK009	L6725-17	1278564	190154	0	30	> CSL/ML, Detect	1,4-Dichlorobenzene	3.7	1.3
NFK009	L6725-17	1278564	190154	0	30	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.8	1.1
NFK009	L6725-17	1278564	190154	0	30	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.8	1.7
NFK009	L6725-17	1278564	190154	0	30	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.2	1.2
NFK009	L6725-17	1278564	190154	0	30	> SQS/SL, <= CSL/ML, Detect	Mercury	1.3	0.93
NFK009	L6725-17	1278564	190154	0	30	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.0	0.55
NFK009	L6725-17	1278564	190154	0	30	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	1.3	0.84
NFK009	L6725-18	1278564	190154	30	60	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.0	1.0
NFK009	L6725-18	1278564	190154	30	60	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	2.7	0.25
NFK009	L6725-18	1278564	190154	30	60	> SQS/SL, <= CSL/ML, Non-detect	N-Nitrosodiphenylamine	1.1	0.75
NFK009	L6725-19	1278564	190154	60	90	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.1	1.1
NFK009	L6725-19	1278564	190154	60	90	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	2.8	0.26
NFK009	L6725-19	1278564	190154	60	90	> SQS/SL, <= CSL/ML, Non-detect	N-Nitrosodiphenylamine	1.1	0.78
NFK009	L6725-20	1278564	190154	90	120	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	2.6	0.24
NFK009	L6725-20	1278564	190154	90	120	> SQS/SL, <= CSL/ML, Non-detect	N-Nitrosodiphenylamine	1.0	0.73
NFK207	L6725-10	1278618	190161	60	90	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.2	1.2
NFK207	L6725-10	1278618	190161	60	90	> SQS/SL, <= CSL/ML, Non-detect	N-Nitrosodiphenylamine	1.2	0.85
NFK207	L6725-10	1278618	190161	60	90	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	3.1	0.28
NFK207	L6725-11	1278618	190161	90	120	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.2	1.2
NFK207	L6725-11	1278618	190161	90	120	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	3.1	0.28
NFK207	L6725-11	1278618	190161	90	120	> SQS/SL, <= CSL/ML, Non-detect	N-Nitrosodiphenylamine	1.2	0.85

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
NFK207	L6725-8	1278618	190161	0	30	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.1	1.1
NFK207	L6725-8	1278618	190161	0	30	> SQS/SL, <= CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.1	0.74
NFK207	L6725-8	1278618	190161	0	30	> SQS/SL, <= CSL/ML, Detect	1,4-Dichlorobenzene	6.8	nv
NFK207	L6725-8	1278618	190161	0	30	> SL, <= ML, Detect	DDTs (total-calc'd)	1.5	0.15
NFK207	L6725-8	1278618	190161	0	30	> SQS/SL, <= CSL/ML, Detect	Butyl benzyl phthalate	2.1	0.28
NFK207	L6725-8	1278618	190161	0	30	> SQS/SL, <= CSL/ML, Detect	Indeno(1,2,3-cd)pyrene	1.1	0.91
NFK207	L6725-8	1278618	190161	0	30	> SQS/SL, <= CSL/ML, Detect	N-Nitrosodiphenylamine	1.2	0.83
NFK207	L6725-8	1278618	190161	0	30	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	3.0	0.28
NFK207	L6725-9	1278618	190161	30	60	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.0	1.0
NFK207	L6725-9	1278618	190161	30	60	> SQS/SL, <= CSL/ML, Non-detect	N-Nitrosodiphenylamine	1.1	0.75
NFK207	L6725-9	1278618	190161	30	60	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	2.7	0.25
Plant 2 RFI-1									
SB-04117	W20-SB-04117-0005	1274797	196770	15	30	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	6.4	4.5
SB-04117	W20-SB-04117-0005	1274797	196770	15	30	> CSL/ML, Non-detect	Benzyl alcohol	16	12
SB-04117	W20-SB-04117-0005	1274797	196770	15	30	> CSL/ML, Non-detect	Pentachlorophenol	2.5	1.3
SB-04117	W20-SB-04117-0005	1274797	196770	15	30	> CSL/ML, Non-detect	Hexachlorobutadiene	32	2.9
SB-04117	W20-SB-04117-0005	1274797	196770	15	30	> CSL/ML, Non-detect	Hexachlorobenzene	8.2	2.6
SB-04117	W20-SB-04117-0005	1274797	196770	15	30	> CSL/ML, Non-detect	Dimethyl phthalate	2.5	1.1
SB-04117	W20-SB-04117-0005	1274797	196770	15	30	> CSL/ML, Non-detect	Diethyl phthalate	3.8	2.5
SB-04117	W20-SB-04117-0005	1274797	196770	15	30	> CSL/ML, Non-detect	1,2-Dichlorobenzene	5.1	3.6
SB-04117	W20-SB-04117-0005	1274797	196770	15	30	> CSL/ML, Non-detect	2-Methylphenol	2.9	2.9
SB-04117	W20-SB-04117-0005	1274797	196770	15	30	> CSL/ML, Non-detect	2,4-Dimethylphenol	12	12
SB-04117	W20-SB-04117-0005	1274797	196770	15	30	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	5.8	3.5
SB-04117	W20-SB-04117-0005	1274797	196770	15	30	> CSL/ML, Non-detect	Benzoic acid	2.8	2.8
SB-04117	W20-SB-04117-0005	1274797	196770	15	30	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.9	0.38
SB-04117	W20-SB-04117-0005	1274797	196770	15	30	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	1.6	nv
SB-04117	W20-SB-04117-0005	1274797	196770	15	30	> SL, <= ML, Non-detect	1,3-Dichlorobenzene	1.1	nv
SB-04117	W20-SB-04117-0020	1274797	196770	61	76	> CSL/ML, Non-detect	Diethyl phthalate	8.3	5.5
SB-04117	W20-SB-04117-0020	1274797	196770	61	76	> CSL/ML, Non-detect	Dimethyl phthalate	5.6	2.5
SB-04117	W20-SB-04117-0020	1274797	196770	61	76	> CSL/ML, Non-detect	Hexachlorobenzene	18	5.7
SB-04117	W20-SB-04117-0020	1274797	196770	61	76	> CSL/ML, Non-detect	Hexachlorobutadiene	72	6.6
SB-04117	W20-SB-04117-0020	1274797	196770	61	76	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	13	7.8
SB-04117	W20-SB-04117-0020	1274797	196770	61	76	> CSL/ML, Non-detect	Pentachlorophenol	5.6	2.9
SB-04117	W20-SB-04117-0020	1274797	196770	61	76	> CSL/ML, Non-detect	Benzoic acid	6.2	6.2
SB-04117	W20-SB-04117-0020	1274797	196770	61	76	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	14	10
SB-04117	W20-SB-04117-0020	1274797	196770	61	76	> CSL/ML, Non-detect	Benzyl alcohol	35	27
SB-04117	W20-SB-04117-0020	1274797	196770	61	76	> CSL/ML, Non-detect	2-Methylphenol	6.3	6.3

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
SB-04117	W20-SB-04117-0020	1274797	196770	61	76	> CSL/ML, Non-detect	2,4-Dimethylphenol	27	27
SB-04117	W20-SB-04117-0020	1274797	196770	61	76	> CSL/ML, Non-detect	1,2-Dichlorobenzene	11	8.0
SB-04117	W20-SB-04117-0020	1274797	196770	61	76	> SQS/SL, <= CSL/ML, Non-detect	Dibenzo(a,h)anthracene	1.7	nv
SB-04117	W20-SB-04117-0020	1274797	196770	61	76	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	3.6	nv
SB-04117	W20-SB-04117-0020	1274797	196770	61	76	> SL, <= ML, Non-detect	1,3-Dichlorobenzene	2.4	nv
SB-04117	W20-SB-04117-0020	1274797	196770	61	76	> SQS/SL, <= CSL/ML, Non-detect	Phenol	1.9	0.66
SB-04117	W20-SB-04117-0020	1274797	196770	61	76	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	6.3	0.85
SD-04107	SD-04107-0003	1274781	196776	9	46	> CSL/ML, Detect	PCBs (total calc'd)	92	17
SD-04107	SD-04107-0003	1274781	196776	9	46	> CSL/ML, Detect	Cadmium	3.5	2.7
SD-04107	SD-04107-0003	1274781	196776	9	46	> CSL/ML, Non-detect	Benzyl alcohol	9.6	7.5
SD-04107	SD-04107-0003	1274781	196776	9	46	> CSL/ML, Non-detect	Hexachlorobutadiene	2.8	1.8
SD-04107	SD-04107-0003	1274781	196776	9	46	> CSL/ML, Non-detect	Hexachlorobenzene	14	2.4
SD-04107	SD-04107-0003	1274781	196776	9	46	> CSL/ML, Non-detect	2-Methylphenol	3.5	3.5
SD-04107	SD-04107-0003	1274781	196776	9	46	> CSL/ML, Non-detect	2,4-Dimethylphenol	11	11
SD-04107	SD-04107-0003	1274781	196776	9	46	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.4	2.4
SD-04107	SD-04107-0003	1274781	196776	9	46	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	6.8	3.1
SD-04107	SD-04107-0003	1274781	196776	9	46	> CSL/ML, Non-detect	Benzoic acid	1.7	1.7
SD-04107	SD-04107-0003	1274781	196776	9	46	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	1.1	0.086
SD-04107	SD-04107-0003	1274781	196776	9	46	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	1.8	0.61
SD-04107	SD-04107-0003	1274781	196776	9	46	> SQS/SL, <= CSL/ML, Non-detect	Pentachlorophenol	1.5	0.80
SD-04107	SD-04107-0015	1274781	196776	46	91	> CSL/ML, Detect	PCBs (total calc'd)	160	29
SD-04107	SD-04107-0015	1274781	196776	46	91	> CSL/ML, Non-detect	2-Methylphenol	3.0	3.0
SD-04107	SD-04107-0015	1274781	196776	46	91	> CSL/ML, Non-detect	Hexachlorobutadiene	2.9	1.8
SD-04107	SD-04107-0015	1274781	196776	46	91	> CSL/ML, Non-detect	Hexachlorobenzene	15	2.4
SD-04107	SD-04107-0015	1274781	196776	46	91	> CSL/ML, Non-detect	Benzoic acid	1.4	1.4
SD-04107	SD-04107-0015	1274781	196776	46	91	> CSL/ML, Non-detect	2,4-Dimethylphenol	9.7	9.7
SD-04107	SD-04107-0015	1274781	196776	46	91	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.4	2.4
SD-04107	SD-04107-0015	1274781	196776	46	91	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	6.8	3.1
SD-04107	SD-04107-0015	1274781	196776	46	91	> CSL/ML, Non-detect	Benzyl alcohol	8.2	6.4
SD-04107	SD-04107-0015	1274781	196776	46	91	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	1.1	0.086
SD-04107	SD-04107-0015	1274781	196776	46	91	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	1.8	0.61
SD-04107	SD-04107-0015	1274781	196776	46	91	> SQS/SL, <= CSL/ML, Non-detect	Pentachlorophenol	1.3	0.68
SD-04405	SD-04405-0015	1275462	196176	9	46	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.5	0.28
SD-04901	SD-04901-0003	1275522	196122	9	46	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.6	0.66
SD-04902	SD-04902-0003	1275518	196124	9	46	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.5	0.64
SD-04902	SD-04902-0015	1275518	196124	46	91	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.3	0.43
SD-04903	SD-04903-0003	1275517	196114	9	46	> CSL/ML, Detect	PCBs (total calc'd)	23	3.0

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
SD-04903	SD-04903-0015	1275517	196114	46	91	> CSL/ML, Detect	PCBs (total calc'd)	19	2.5
SD-04904	SD-04904-0003	1275487	196123	9	46	> CSL/ML, Detect	PCBs (total calc'd)	31	5.8
SD-04904	SD-04904-0015	1275487	196123	46	91	> CSL/ML, Detect	PCBs (total calc'd)	38	7.0
SD-04905	SD-04905-0003	1275476	196120	9	46	> CSL/ML, Detect	PCBs (total calc'd)	2,400	440
SD-04920	SD-04920-0002	1275468	196070	9	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.6	0.66
Plant 2 RFI-2b									
SD-01001	SD2B-01001-0000C	1273710	197632	0	122	> CSL/ML, Detect	PCBs (total calc'd)	9.1	1.7
SD-DUW04	SD2B-DUW04-0000C	1273965	197320	0	122	> CSL/ML, Detect	PCBs (total calc'd)	11	2.0
SD-DUW06	SD2B-DUW06-0000C	1274267	197053	0	122	> CSL/ML, Detect	PCBs (total calc'd)	10	1.9
SD-DUW06	SD2B-DUW06-0040	1274267	197053	122	244	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.8	0.33
SD-DUW07	SD2B-DUW07-0000C	1274415	196913	0	58	> CSL/ML, Detect	PCBs (total calc'd)	26	4.8
SD-DUW07	SD2B-DUW07-0019	1274415	196913	58	216	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.9	0.51
SD-DUW13	SD2B-DUW13-0000C	1275334	196152	0	122	> CSL/ML, Detect	Mercury	3.2	2.2
SD-DUW13	SD2B-DUW13-0000C	1275334	196152	0	122	> CSL/ML, Detect	PCBs (total calc'd)	8.3	1.5
SD-DUW13	SD2B-DUW13-0040	1275334	196152	122	232	> CSL/ML, Detect	PCBs (total calc'd)	11	2.1
SD-DUW13D	SD2B-DUW13-5000C	1275334	196169	0	122	> CSL/ML, Detect	PCBs (total calc'd)	61	11
SD-DUW13D	SD2B-DUW13-5000C	1275334	196169	0	122	> CSL/ML, Detect	Cadmium	2.0	1.5
SD-DUW13D	SD2B-DUW13-5000C	1275334	196169	0	122	> CSL/ML, Detect	Mercury	1.6	1.1
SD-DUW13D	SD2B-DUW13-5000C	1275334	196169	0	122	> SQS/SL, <= CSL/ML, Detect	Zinc	1.1	0.49
SD-DUW13D	SD2B-DUW13-5040	1275334	196169	122	287	> CSL/ML, Detect	Mercury	2.1	1.5
SD-DUW13D	SD2B-DUW13-5040	1275334	196169	122	287	> CSL/ML, Detect	PCBs (total calc'd)	9.8	1.8
SD-DUW15	SD2B-DUW15-0000C	1275629	195843	0	122	> CSL/ML, Detect	PCBs (total calc'd)	37	6.9
SD-DUW15	SD2B-DUW15-0040	1275629	195843	122	244	> CSL/ML, Detect	PCBs (total calc'd)	11	2.0
SD-DUW15	SD2B-DUW15-0080	1275629	195843	244	277	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.9	0.38
SD-DUW16	SD2B-DUW16-0000C	1275767	195727	0	110	> CSL/ML, Detect	PCBs (total calc'd)	42	7.8
SD-DUW26	SD2B-DUW26-0000C	1275071	196447	0	122	> CSL/ML, Detect	PCBs (total calc'd)	47	8.7
SD-DUW28	SD2B-DUW28-0000C	1275381	196195	0	58	> CSL/ML, Detect	PCBs (total calc'd)	49	9.1
SD-DUW34	SD2B-DUW34-0000C	1274747	196727	0	58	> CSL/ML, Detect	PCBs (total calc'd)	63	12
SD-DUW39	SD2B-DUW39-0000C	1274888	196621	0	122	> CSL/ML, Detect	PCBs (total calc'd)	32	5.8
SD-DUW47	SD2B-DUW47-0000C	1275242	196271	0	134	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.4	0.25
SD-DUW47	SD2B-DUW47-0000C	1275242	196271	0	134	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.6	0.20
SD-DUW47	SD2B-DUW47-1000C	1275242	196271	0	134	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	3.0	0.23
SD-DUW51	SD2B-DUW51-0000C	1275413	196066	0	79	> CSL/ML, Detect	PCBs (total calc'd)	20	3.7
SD-DUW51	SD2B-DUW51-1000C	1275413	196066	0	79	> CSL/ML, Detect	PCBs (total calc'd)	22	4.1
SD-DUW52	SD2B-DUW52-0000C	1275531	195921	0	122	> CSL/ML, Detect	PCBs (total calc'd)	75	14
SD-DUW52	SD2B-DUW52-0040	1275531	195921	122	244	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.4	0.44
SD-DUW52	SD2B-DUW52-0080	1275531	195921	244	344	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.2	0.59

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
SD-DUW53	SD2B-DUW53-0000C	1275691	195768	0	122	> CSL/ML, Detect	Zinc	3.9	1.7
SD-DUW53	SD2B-DUW53-0000C	1275691	195768	0	122	> CSL/ML, Detect	Mercury	2.0	1.4
SD-DUW53	SD2B-DUW53-0000C	1275691	195768	0	122	> CSL/ML, Detect	PCBs (total calc'd)	16	3.0
SD-DUW53	SD2B-DUW53-0040	1275691	195768	122	244	> CSL/ML, Detect	PCBs (total calc'd)	10	1.9
SD-DUW53	SD2B-DUW53-0080	1275691	195768	244	366	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.9	0.35
Plant 2-TransformerPhase1									
SD-DUW153	DUW153-0000	1275653	195822	0	30	> CSL/ML, Detect	PCBs (total calc'd)	830	110
SD-DUW153	DUW153-0020	1275653	195822	61	122	> CSL/ML, Detect	PCBs (total calc'd)	15	2.8
SD-DUW153	DUW153-0040	1275653	195822	122	152	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	4.1	0.76
SD-DUW154	DUW154-0000	1275694	195802	0	30	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	7.5	0.97
SD-DUW154	DUW154-0020	1275694	195802	61	122	> CSL/ML, Detect	PCBs (total calc'd)	11	1.4
SD-DUW154	DUW154-0040	1275694	195802	122	183	> CSL/ML, Detect	PCBs (total calc'd)	6.0	1.1
SD-DUW154	DUW154-0060	1275694	195802	183	213	> SQS/SL, <= CSL/ML, Non-detect	PCBs (total calc'd)	1.7	0.31
SD-DUW155	DUW155-0000	1275703	195794	0	30	> CSL/ML, Detect	PCBs (total calc'd)	19	3.5
SD-DUW155	DUW155-0020	1275703	195794	61	113	> CSL/ML, Detect	PCBs (total calc'd)	12	2.2
SD-DUW155	DUW155-0040	1275703	195794	122	152	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	5.3	0.98
SD-DUW156	DUW156-0000	1275706	195777	0	24	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.5	0.64
SD-DUW156	DUW156-0020	1275706	195777	61	91	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.1	0.38
SD-DUW156	DUW156-0040	1275706	195777	122	146	> CSL/ML, Detect	PCBs (total calc'd)	5.7	1.1
SD-DUW157	DUW157-0000	1275744	195790	0	30	> CSL/ML, Detect	PCBs (total calc'd)	120	22
SD-DUW157	DUW157-0030	1275744	195790	91	122	> SQS/SL, <= CSL/ML, Non-detect	PCBs (total calc'd)	1.3	0.24
SD-DUW158	DUW158-0000	1275735	195775	0	30	> CSL/ML, Detect	PCBs (total calc'd)	23	4.3
SD-DUW158	DUW158-0020	1275735	195775	61	88	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.1	0.20
SD-DUW159	DUW159-0000	1275729	195755	0	30	> CSL/ML, Detect	PCBs (total calc'd)	11	2.1
SD-DUW159	DUW159-0020	1275729	195755	61	85	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.2	0.58
SD-DUW160	DUW160-0000	1275766	195763	0	27	> CSL/ML, Detect	PCBs (total calc'd)	11	2.1
SD-DUW161	DUW161-0000	1275760	195741	0	15	> CSL/ML, Detect	PCBs (total calc'd)	54	9.9
SD-DUW162	DUW162-0000	1275758	195720	0	24	> CSL/ML, Detect	PCBs (total calc'd)	8.3	1.5
SD-DUW162	DUW162-0020	1275758	195720	61	91	> CSL/ML, Detect	PCBs (total calc'd)	59	11
SD-DUW162	DUW162-0040	1275758	195720	122	140	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	5.1	0.66
SD-DUW163	DUW163-0000	1275786	195731	0	21	> CSL/ML, Detect	PCBs (total calc'd)	5.6	1.0
SD-DUW164	DUW164-0000	1275782	195705	0	18	> CSL/ML, Detect	PCBs (total calc'd)	23	4.2
SD-DUW164	DUW164-0020	1275782	195705	61	91	> CSL/ML, Detect	PCBs (total calc'd)	15	2.0
SD-DUW164	DUW164-0030	1275782	195705	91	113	> CSL/ML, Detect	PCBs (total calc'd)	14	2.6
SD-DUW165	DUW165-0000	1275811	195697	0	21	> CSL/ML, Detect	PCBs (total calc'd)	17	3.1
PSDDA96									
4	S1	1276677	192025	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	1.8	0.30

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
5	S2	1276557	192210	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.0	0.33
6	S3	1276510	192364	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.1	0.35
C1	C1	1276974	190762	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	1.8	0.29
PSDDA98									
1	S1	1275291	195913	0	61	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.8	0.46
2	S2	1275779	195125	0	61	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.4	0.39
3	S3	1276037	194297	0	61	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.3	0.38
4	S4	1276167	193767	0	61	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.6	0.43
5	S5	1276295	193292	0	61	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.9	0.49
6	S6	1276452	192612	0	61	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.4	0.40
7	S7	1276534	192326	0	91	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.9	0.48
Average Of 10-12	C2	1277162	190420	0	122	> SQS/SL, <= CSL/ML, Detect	Phenanthrene	1.4	0.28
Average Of 10-12	C2	1277162	190420	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.1	0.35
Average Of 10-12	C3	1277162	190420	122	335	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	1.0	0.17
Average Of 8-9	C1	1276772	191322	0	61	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.1	0.35
PSDDA99									
B1	B1	1269154	202036	122	244	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.2	0.23
B1	B1	1269154	202036	122	244	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	3.3	0.55
B2	B2	1269979	201124	122	244	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.5	0.28
B2	B2	1269979	201124	122	244	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.4	0.39
S1	S1	1268863	202577	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.9	0.48
S10	S10	1269353	201769	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.6	0.43
S11	S11	1269400	201666	0	122	> CSL/ML, Non-detect	2,4-Dimethylphenol	1.6	1.6
S11	S11	1269400	201666	0	122	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.0	0.55
S11	S11	1269400	201666	0	122	> SL, <= ML, Non-detect	DDTs (total-calc'd)	3.3	0.33
S11	S11	1269400	201666	0	122	> SL, <= ML, Non-detect	Dieldrin	1.2	nv
S11	S11	1269400	201666	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	6.1	1.0
S12	S12	1269510	201597	0	122	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.4	0.44
S12	S12	1269510	201597	0	122	> SL, <= ML, Non-detect	DDTs (total-calc'd)	2.2	0.22
S12	S12	1269510	201597	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.1	0.34
S13	S13	1270426	200645	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	3.1	0.52
S14	S14	1270894	200131	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	3.1	0.51
S15	S15	1271295	199702	0	122	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.1	0.19
S15	S15	1271295	199702	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.6	0.43
S16	S16	1271930	199035	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.9	0.49
S17	S17	1273435	197587	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	4.0	0.67
S18	S18	1274190	196895	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	3.8	0.62

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
S2	S2	1268952	202446	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	3.1	0.51
S3	S3	1268980	202348	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.8	0.46
S4	S4	1269020	202252	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.6	0.43
S5	S5	1269042	202166	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.8	0.46
S6	S6	1269111	202083	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.6	0.43
S7	S7	1269130	201979	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.5	0.41
S8	S8	1269220	201915	0	122	> SL, <= ML, Non-detect	DDTs (total-calc'd)	1.1	0.11
S8	S8	1269220	201915	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.3	0.38
S9	S9	1269264	201827	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.9	0.49
RhonePoulenc2004									
SB-1	Lower SB-01	1277485	192933	10	21	> CSL/ML, Non-detect	Benzoic acid	4.2	4.2
SB-1	Lower SB-01	1277485	192933	10	21	> CSL/ML, Non-detect	Pentachlorophenol	7.5	3.9
SB-1	Lower SB-01	1277485	192933	10	21	> SQS/SL, <= CSL/ML, Detect	Benzo(g,h,i)perylene	1.1	0.44
SB-1	Lower SB-01	1277485	192933	10	21	> SQS/SL, <= CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.4	0.82
SB-1	Lower SB-01	1277485	192933	10	21	> SQS/SL, <= CSL/ML, Detect	Dibenzo(a,h)anthracene	2.1	0.76
SB-1	Lower SB-01	1277485	192933	10	21	> SQS/SL, <= CSL/ML, Detect	Indeno(1,2,3-cd)pyrene	1.1	0.44
SB-11	Lower SB-11	1276515	192835	10	21	> CSL/ML, Detect	Benzoic acid	1.8	1.8
SB-11	Lower SB-11	1276515	192835	10	21	> CSL/ML, Non-detect	Pentachlorophenol	6.1	3.2
SB-11	Lower SB-11	1276515	192835	10	21	> SQS/SL, <= CSL/ML, Detect	Dibenzo(a,h)anthracene	1.2	0.43
SB-11	Lower SB-11	1276515	192835	10	21	> SQS/SL, <= CSL/ML, Non-detect	Bis(2-ethylhexyl)phthalate	1.0	0.62
SB-12	Lower SB-12	1276488	193172	10	21	> CSL/ML, Detect	Benzoic acid	2.0	2.0
SB-12	Lower SB-12	1276488	193172	10	21	> CSL/ML, Non-detect	Pentachlorophenol	6.4	3.3
SB-12	Lower SB-12	1276488	193172	10	21	> SQS/SL, <= CSL/ML, Detect	Dibenzo(a,h)anthracene	1.8	0.64
SB-12	Lower SB-12	1276488	193172	10	21	> SQS/SL, <= CSL/ML, Non-detect	Di-n-octyl phthalate	1.1	0.014
SB-12	Lower SB-12	1276488	193172	10	21	> SQS/SL, <= CSL/ML, Non-detect	Bis(2-ethylhexyl)phthalate	1.3	0.79
SB-13	Lower SB-13	1276396	193642	10	21	> CSL/ML, Non-detect	Benzoic acid	3.1	3.1
SB-13	Lower SB-13	1276396	193642	10	21	> CSL/ML, Non-detect	Pentachlorophenol	5.6	2.9
SB-13	Lower SB-13	1276396	193642	10	21	> SQS/SL, <= CSL/ML, Detect	Dibenzo(a,h)anthracene	1.7	0.61
SB-13	Lower SB-13	1276396	193642	10	21	> SQS/SL, <= CSL/ML, Non-detect	Bis(2-ethylhexyl)phthalate	1.4	0.85
SB-13	Lower SB-13	1276396	193642	10	21	> SQS/SL, <= CSL/ML, Non-detect	Di-n-octyl phthalate	1.1	0.015
SB-17	Lower SB-16	1277440	192982	10	21	> CSL/ML, Detect	Benzoic acid	3.1	3.1
SB-17	Lower SB-16	1277440	192982	10	21	> CSL/ML, Non-detect	Pentachlorophenol	8.1	4.2
SB-17	Lower SB-16	1277440	192982	10	21	> SQS/SL, <= CSL/ML, Detect	Phenol	1.1	0.40
SB-17	Lower SB-16	1277440	192982	10	21	> SQS/SL, <= CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.0	0.62
SB-17	Lower SB-16	1277440	192982	10	21	> SQS/SL, <= CSL/ML, Detect	Dibenzo(a,h)anthracene	1.4	0.51
SB-17	Lower SB-17	1277440	192982	10	21	> CSL/ML, Detect	Benzoic acid	2.8	2.8
SB-17	Lower SB-17	1277440	192982	10	21	> CSL/ML, Non-detect	Pentachlorophenol	7.8	4.1

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
SB-17	Lower SB-17	1277440	192982	10	21	> SQS/SL, <= CSL/ML, Detect	Dibenzo(a,h)anthracene	1.7	0.60
SB-17	Lower SB-17	1277440	192982	10	21	> SQS/SL, <= CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.2	0.70
SB-2	Lower SB-02	1277003	192646	10	21	> CSL/ML, Non-detect	Benzoic acid	3.8	3.8
SB-2	Lower SB-02	1277003	192646	10	21	> CSL/ML, Non-detect	Pentachlorophenol	6.9	3.6
SB-2	Lower SB-02	1277003	192646	10	21	> SQS/SL, <= CSL/ML, Detect	Dibenzo(a,h)anthracene	1.4	0.50
SB-2	Lower SB-02	1277003	192646	10	21	> SQS/SL, <= CSL/ML, Non-detect	Bis(2-ethylhexyl)phthalate	1.1	0.66
SB-2	Lower SB-15	1277003	192646	10	21	> CSL/ML, Non-detect	Benzoic acid	4.2	4.2
SB-2	Lower SB-15	1277003	192646	10	21	> CSL/ML, Non-detect	Pentachlorophenol	7.5	3.9
SB-2	Lower SB-15	1277003	192646	10	21	> SQS/SL, <= CSL/ML, Detect	Dibenzo(a,h)anthracene	1.5	0.54
SB-2	Lower SB-15	1277003	192646	10	21	> SQS/SL, <= CSL/ML, Non-detect	Bis(2-ethylhexyl)phthalate	1.2	0.73
SB-3	Lower SB-03	1277422	192973	10	21	> CSL/ML, Detect	Phenol	7.4	2.6
SB-3	Lower SB-03	1277422	192973	10	21	> CSL/ML, Detect	Benzoic acid	3.1	3.1
SB-3	Lower SB-03	1277422	192973	10	21	> CSL/ML, Non-detect	Pentachlorophenol	8.6	4.5
SB-3	Lower SB-03	1277422	192973	10	21	> SQS/SL, <= CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.5	0.92
SB-3	Lower SB-03	1277422	192973	10	21	> SQS/SL, <= CSL/ML, Detect	Dibenzo(a,h)anthracene	1.5	0.56
SB-4	Lower SB-04	1277315	192933	10	21	> CSL/ML, Detect	Benzoic acid	2.6	2.6
SB-4	Lower SB-04	1277315	192933	10	21	> CSL/ML, Non-detect	Pentachlorophenol	7.8	4.1
SB-4	Lower SB-04	1277315	192933	10	21	> SQS/SL, <= CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.1	0.63
SB-4	Lower SB-04	1277315	192933	10	21	> SQS/SL, <= CSL/ML, Detect	Dibenzo(a,h)anthracene	1.2	0.43
SB-5	Lower SB-05	1277209	192892	10	21	> CSL/ML, Detect	Benzoic acid	2.8	2.8
SB-5	Lower SB-05	1277209	192892	10	21	> CSL/ML, Non-detect	Pentachlorophenol	7.5	3.9
SB-5	Lower SB-05	1277209	192892	10	21	> SQS/SL, <= CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.2	0.71
SB-5	Lower SB-05	1277209	192892	10	21	> SQS/SL, <= CSL/ML, Detect	Dibenzo(a,h)anthracene	1.2	0.44
SB-6	Lower SB-06	1277116	192857	10	21	> CSL/ML, Detect	Benzoic acid	2.8	2.8
SB-6	Lower SB-06	1277116	192857	10	21	> CSL/ML, Non-detect	Pentachlorophenol	7.8	4.1
SB-6	Lower SB-06	1277116	192857	10	21	> SQS/SL, <= CSL/ML, Detect	Dibenzo(a,h)anthracene	1.2	0.43
SB-7	Lower SB-07	1276950	192774	10	21	> CSL/ML, Detect	Benzoic acid	2.6	2.6
SB-7	Lower SB-07	1276950	192774	10	21	> CSL/ML, Non-detect	Pentachlorophenol	7.8	4.1
SB-7	Lower SB-07	1276950	192774	10	21	> SQS/SL, <= CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.0	0.61
SB-7	Lower SB-07	1276950	192774	10	21	> SQS/SL, <= CSL/ML, Detect	Dibenzo(a,h)anthracene	1.2	0.43
SB-8	Lower SB-08	1276869	192749	10	21	> CSL/ML, Detect	Benzoic acid	2.3	2.3
SB-8	Lower SB-08	1276869	192749	10	21	> CSL/ML, Non-detect	Pentachlorophenol	7.8	4.1
SB-8	Lower SB-08	1276869	192749	10	21	> SQS/SL, <= CSL/ML, Detect	Dibenzo(a,h)anthracene	1.4	0.50
SB-8	Lower SB-08	1276869	192749	10	21	> SQS/SL, <= CSL/ML, Non-detect	Bis(2-ethylhexyl)phthalate	1.2	0.72
SH-01	Lower SH-01	1276626	193525	10	25	> CSL/ML, Detect	Diethyl phthalate	6.7	3.7
SH-01	Lower SH-01	1276626	193525	10	25	> CSL/ML, Detect	Pentachlorophenol	2.3	1.2
SH-01	Lower SH-01	1276626	193525	10	25	> CSL/ML, Non-detect	Benzoic acid	2.6	2.6

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
SH-01	Lower SH-01	1276626	193525	10	25	> CSL/ML, Non-detect	Bis(2-ethylhexyl)phthalate	2.7	1.7
SH-01	Lower SH-01	1276626	193525	10	25	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.6	0.30
SH-01	Lower SH-01	1276626	193525	10	25	> SQS/SL, <= CSL/ML, Detect	Dibenzo(a,h)anthracene	2.7	0.96
SH-01	Lower SH-01	1276626	193525	10	25	> SQS/SL, <= CSL/ML, Non-detect	Fluorene	1.1	0.33
SH-01	Lower SH-01	1276626	193525	10	25	> SQS/SL, <= CSL/ML, Non-detect	Dibenzofuran	1.7	0.44
SH-01	Lower SH-01	1276626	193525	10	25	> SQS/SL, <= CSL/ML, Non-detect	Acenaphthene	1.6	0.45
SH-01	Lower SH-01	1276626	193525	10	25	> SQS/SL, <= CSL/ML, Non-detect	Benzo(g,h,i)perylene	1.7	0.66
SH-01	Lower SH-01	1276626	193525	10	25	> SQS/SL, <= CSL/ML, Non-detect	Di-n-octyl phthalate	2.2	0.029
SH-02	Lower SH-02	1276644	193476	10	25	> CSL/ML, Non-detect	Benzoic acid	3.5	3.5
SH-02	Lower SH-02	1276644	193476	10	25	> CSL/ML, Non-detect	Bis(2-ethylhexyl)phthalate	1.8	1.1
SH-02	Lower SH-02	1276644	193476	10	25	> CSL/ML, Non-detect	Pentachlorophenol	6.4	3.3
SH-02	Lower SH-02	1276644	193476	10	25	> SQS/SL, <= CSL/ML, Detect	Dibenzo(a,h)anthracene	2.2	0.79
SH-02	Lower SH-02	1276644	193476	10	25	> SQS/SL, <= CSL/ML, Detect	Di-n-octyl phthalate	2.4	0.031
SH-02	Lower SH-02	1276644	193476	10	25	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.7	0.32
SH-02	Lower SH-02	1276644	193476	10	25	> SQS/SL, <= CSL/ML, Non-detect	Dibenzofuran	1.1	0.27
SH-03	Lower SH-03	1276647	193427	10	25	> CSL/ML, Non-detect	Diethyl phthalate	3.3	2.2
SH-03	Lower SH-03	1276647	193427	10	25	> CSL/ML, Non-detect	Benzoic acid	2.5	2.5
SH-03	Lower SH-03	1276647	193427	10	25	> CSL/ML, Non-detect	Pentachlorophenol	4.4	2.3
SH-03	Lower SH-03	1276647	193427	10	25	> SQS/SL, <= CSL/ML, Non-detect	Dibenzo(a,h)anthracene	3.5	nv
SH-03	Lower SH-03	1276647	193427	10	25	> SQS/SL, <= CSL/ML, Non-detect	Di-n-octyl phthalate	1.9	0.39
SH-03	Lower SH-13	1276647	193427	10	25	> CSL/ML, Non-detect	Benzoic acid	2.5	2.5
SH-03	Lower SH-13	1276647	193427	10	25	> CSL/ML, Non-detect	Diethyl phthalate	3.3	2.2
SH-03	Lower SH-13	1276647	193427	10	25	> CSL/ML, Non-detect	Pentachlorophenol	4.4	2.3
SH-03	Lower SH-13	1276647	193427	10	25	> SQS/SL, <= CSL/ML, Non-detect	Dibenzo(a,h)anthracene	3.6	nv
SH-03	Lower SH-13	1276647	193427	10	25	> SQS/SL, <= CSL/ML, Non-detect	Di-n-octyl phthalate	2.0	0.39
SH-04	Lower SH-04	1276680	193285	10	25	> CSL/ML, Detect	PCBs (total calc'd)	34	6.3
SH-04	Lower SH-04	1276680	193285	10	25	> CSL/ML, Detect	Pentachlorophenol	2.6	1.3
SH-04	Lower SH-04	1276680	193285	10	25	> CSL/ML, Detect	Dibenzo(a,h)anthracene	3.1	1.1
SH-04	Lower SH-04	1276680	193285	10	25	> CSL/ML, Non-detect	Benzoic acid	2.6	2.6
SH-04	Lower SH-04	1276680	193285	10	25	> CSL/ML, Non-detect	Bis(2-ethylhexyl)phthalate	3.0	1.8
SH-04	Lower SH-04	1276680	193285	10	25	> SQS/SL, <= CSL/ML, Non-detect	Fluorene	1.2	0.35
SH-04	Lower SH-04	1276680	193285	10	25	> SQS/SL, <= CSL/ML, Non-detect	Dibenzofuran	1.9	0.48
SH-04	Lower SH-04	1276680	193285	10	25	> SQS/SL, <= CSL/ML, Non-detect	Acenaphthene	1.7	0.49
SH-04	Lower SH-04	1276680	193285	10	25	> SQS/SL, <= CSL/ML, Non-detect	Benzo(g,h,i)perylene	1.9	0.74
SH-04	Lower SH-04	1276680	193285	10	25	> SQS/SL, <= CSL/ML, Non-detect	Di-n-octyl phthalate	2.5	0.032
SH-06	Lower SH-06	1276761	192921	10	25	> CSL/ML, Non-detect	Pentachlorophenol	4.2	2.2
SH-06	Lower SH-06	1276761	192921	10	25	> CSL/ML, Non-detect	Benzoic acid	2.3	2.3

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
SH-06	Lower SH-06	1276761	192921	10	25	> CSL/ML, Non-detect	Diethyl phthalate	3.1	2.1
SH-06	Lower SH-06	1276761	192921	10	25	> SQS/SL, <= CSL/ML, Non-detect	Di-n-octyl phthalate	1.8	0.35
SH-06	Lower SH-06	1276761	192921	10	25	> SQS/SL, <= CSL/ML, Non-detect	Dibenzo(a,h)anthracene	3.2	nv
SH-07	Lower SH-07	1276783	192891	10	25	> CSL/ML, Detect	Benzoic acid	1.4	1.4
SH-07	Lower SH-07	1276783	192891	10	25	> CSL/ML, Non-detect	Diethyl phthalate	3.8	2.5
SH-07	Lower SH-07	1276783	192891	10	25	> CSL/ML, Non-detect	Pentachlorophenol	5.0	2.6
SH-07	Lower SH-07	1276783	192891	10	25	> SQS/SL, <= CSL/ML, Non-detect	Dibenzo(a,h)anthracene	4.0	nv
SH-07	Lower SH-07	1276783	192891	10	25	> SQS/SL, <= CSL/ML, Non-detect	Di-n-octyl phthalate	2.2	0.43
SH-08	Lower SH-08	1276796	192834	10	25	> CSL/ML, Non-detect	Benzoic acid	3.2	3.2
SH-08	Lower SH-08	1276796	192834	10	25	> CSL/ML, Non-detect	Pentachlorophenol	5.8	3.0
SH-08	Lower SH-08	1276796	192834	10	25	> CSL/ML, Non-detect	Bis(2-ethylhexyl)phthalate	2.1	1.3
SH-08	Lower SH-08	1276796	192834	10	25	> SQS/SL, <= CSL/ML, Detect	Dibenzo(a,h)anthracene	2.3	0.85
SH-08	Lower SH-08	1276796	192834	10	25	> SQS/SL, <= CSL/ML, Non-detect	Dibenzofuran	1.3	0.33
SH-08	Lower SH-08	1276796	192834	10	25	> SQS/SL, <= CSL/ML, Non-detect	Di-n-octyl phthalate	1.7	0.022
SH-08	Lower SH-08	1276796	192834	10	25	> SQS/SL, <= CSL/ML, Non-detect	Acenaphthene	1.2	0.33
SH-09	Lower SH-09	1276766	192833	10	25	> CSL/ML, Non-detect	Benzoic acid	2.0	2.0
SH-09	Lower SH-09	1276766	192833	10	25	> CSL/ML, Non-detect	Diethyl phthalate	2.7	1.8
SH-09	Lower SH-09	1276766	192833	10	25	> CSL/ML, Non-detect	Pentachlorophenol	3.6	1.9
SH-09	Lower SH-09	1276766	192833	10	25	> SQS/SL, <= CSL/ML, Non-detect	Dibenzo(a,h)anthracene	2.9	nv
SH-09	Lower SH-09	1276766	192833	10	25	> SQS/SL, <= CSL/ML, Non-detect	Di-n-octyl phthalate	1.6	0.32
Slip4-Crowley									
DMMU 1	CMS4-5	1272885	198524	0	117	> SQS/SL, <= CSL/ML, Detect	Benzo(g,h,i)perylene	1.6	0.63
DMMU 1	CMS4-5	1272885	198524	0	117	> SQS/SL, <= CSL/ML, Detect	Total HPAH (calc'd)	1.6	0.30
DMMU 1	CMS4-5	1272885	198524	0	117	> SQS/SL, <= CSL/ML, Detect	Phenanthrene	1.5	0.31
DMMU 1	CMS4-5	1272885	198524	0	117	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.3	0.25
DMMU 1	CMS4-5	1272885	198524	0	117	> SQS/SL, <= CSL/ML, Detect	Indeno(1,2,3-cd)pyrene	1.4	0.56
DMMU 1	CMS4-5	1272885	198524	0	117	> SQS/SL, <= CSL/ML, Detect	Fluoranthene	2.7	0.35
DMMU 1	CMS4-5	1272885	198524	0	117	> SQS/SL, <= CSL/ML, Detect	Chrysene	1.8	0.43
DMMU 1	CMS4-5	1272885	198524	0	117	> SQS/SL, <= CSL/ML, Detect	Benzo(a)pyrene	1.2	0.55
DMMU 1	CMS4-5	1272885	198524	0	117	> SQS/SL, <= CSL/ML, Detect	Benzo(a)anthracene	1.6	0.67
DMMU 1	CMS4-5	1272885	198524	0	117	> SQS/SL, <= CSL/ML, Detect	Dibenzo(a,h)anthracene	1.9	0.68
DMMU 1	CMS4-5	1272885	198524	0	117	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.6	0.43
DMMU 2	CMS4-1	1273000	198628	0	85	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.0	0.55
DMMU 2	CMS4-1	1273000	198628	0	85	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.2	0.36
DMMU 3	CMS4-2	1273126	198726	0	131	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.0	0.36
DMMU 3	CMS4-2	1273126	198726	0	131	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	1.9	0.32
DMMU 4	CMS4-3	1273220	198831	0	117	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.6	0.66

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
DMMU 4	CMS4-3	1273220	198831	0	117	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.3	0.38
DMMU 4	CMS4-3	1273220	198831	0	117	> SL, <= ML, Non-detect	Aldrin	1.2	nv
Slip4-EarlyAction									
SC01	SC01A	1273510	199432	0	61	> CSL/ML, Detect	Mercury	24	17
SC01	SC01A	1273510	199432	0	61	> CSL/ML, Detect	PCBs (total calc'd)	130	23
SC01	SC01B	1273510	199432	61	122	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	6.0	0.78
SC02	SC02A	1273482	199265	0	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.9	0.54
SC02	SC02B	1273482	199265	61	122	> CSL/ML, Detect	PCBs (total calc'd)	21	3.8
SC02	SC02C	1273482	199265	122	183	> CSL/ML, Detect	PCBs (total calc'd)	28	5.1
SC02	SC02C	1273482	199265	122	183	> SQS/SL, <= CSL/ML, Detect	Mercury	1.2	0.86
SC02	SC02D	1273482	199265	183	244	> CSL/ML, Detect	Mercury	2.0	1.4
SC03	SC03A	1273391	199155	0	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.5	0.28
SC03	SC03B	1273391	199155	61	122	> CSL/ML, Detect	PCBs (total calc'd)	14	2.5
SC03	SC03C	1273391	199155	122	183	> CSL/ML, Detect	PCBs (total calc'd)	45	8.2
SC03	SC03C	1273391	199155	122	183	> SQS/SL, <= CSL/ML, Detect	Mercury	1.2	0.81
SC04	SC04A	1273490	199136	0	61	> CSL/ML, Detect	PCBs (total calc'd)	39	7.2
SC04	SC04B	1273490	199136	61	122	> CSL/ML, Detect	PCBs (total calc'd)	16	2.9
SC04	SC04C	1273490	199136	122	183	> CSL/ML, Detect	Mercury	1.7	1.2
SC04	SC04D	1273490	199136	183	244	> SQS/SL, <= CSL/ML, Detect	Mercury	1.2	0.83
SC05	SC05A	1273412	199033	0	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	4.0	0.74
SC06	SC06A	1273260	198884	0	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.2	0.22
SC06	SC06B	1273260	198884	61	122	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.6	0.66
SC06	SC06C	1273260	198884	122	183	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	4.0	0.74
SC07	SC07A	1273354	198901	0	61	> CSL/ML, Detect	PCBs (total calc'd)	24	4.4
SC07	SC07B	1273354	198901	61	122	> CSL/ML, Detect	PCBs (total calc'd)	24	4.5
SC07	SC07B	1273354	198901	61	122	> SQS/SL, <= CSL/ML, Detect	Mercury	1.1	0.80
SC07	SC07C	1273354	198901	122	183	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.2	0.41
South Park Bridge									
SB-4	SB4-SED-5	1274600	196800	76	152	> CSL/ML, Detect	PCBs (total calc'd)	21	3.8
SB-4	SB4-SED-5	1274600	196800	76	152	> ML, Non-detect	DDTs (total-calc'd)	16	1.6
SB-4	SB4-SED-5	1274600	196800	76	152	> SL, <= ML, Non-detect	Dieldrin	8.1	nv
SB-4	SB4-SED-5	1274600	196800	76	152	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	3.4	0.57
SB-4	SB4-SED-5	1274600	196800	76	152	> SL, <= ML, Non-detect	Total Chlordane (calc'd)	2.7	nv
SB-4	SB4-SED-7	1274600	196800	152	213	> CSL/ML, Detect	PCBs (total calc'd)	71	13
SB-4	SB4-SED-7	1274600	196800	152	213	> CSL/ML, Non-detect	Hexachlorobenzene	9.2	1.5
SB-4	SB4-SED-7	1274600	196800	152	213	> ML, Non-detect	DDTs (total-calc'd)	14	1.4
SB-4	SB4-SED-7	1274600	196800	152	213	> SL, <= ML, Non-detect	Dieldrin	9.5	nv

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
SB-4	SB4-SED-7	1274600	196800	152	213	> SL, <= ML, Non-detect	Aldrin	1.6	nv
SB-4	SB4-SED-7	1274600	196800	152	213	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.1	0.48
SB-4	SB4-SED-7	1274600	196800	152	213	> SL, <= ML, Non-detect	Total Chlordane (calc'd)	3.2	nv
SB-4	SB4-SED-10	1274600	196800	229	305	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.3	0.24
SB-4	SB4-SED-10	1274600	196800	229	305	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	3.7	0.61
SB-4	SB4-SED-10	1274600	196800	229	305	> SL, <= ML, Non-detect	DDTs (total-calc'd)	1.3	0.13
SB-4	SB4-SED-50	1274600	196800	1448	1524	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	5.6	0.92
SB-4	SB4-SED-50	1274600	196800	1448	1524	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	3.6	0.28
SB-5	SB5-SED-2.5	1274500	196550	0	76	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	4.0	0.74
SB-5	SB5-SED-2.5	1274500	196550	0	76	> SL, <= ML, Non-detect	DDTs (total-calc'd)	2.5	0.25
SB-5	SB5-SED-2.5	1274500	196550	0	76	> SL, <= ML, Non-detect	Dieldrin	1.7	nv
SB-5	SB5-SED-2.5	1274500	196550	0	76	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	3.4	0.56
SB-5	SB5-SED-5	1274500	196550	76	152	> CSL/ML, Detect	PCBs (total calc'd)	11	2.1
SB-5	SB5-SED-5	1274500	196550	76	152	> SL, <= ML, Non-detect	Total Chlordane (calc'd)	1.5	nv
SB-5	SB5-SED-5	1274500	196550	76	152	> SL, <= ML, Non-detect	DDTs (total-calc'd)	7.1	0.71
SB-5	SB5-SED-5	1274500	196550	76	152	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	4.1	0.67
SB-5	SB5-SED-5	1274500	196550	76	152	> SL, <= ML, Non-detect	Dieldrin	4.5	nv
SB-5	SB5-SED-7.5	1274500	196550	152	229	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.5	0.64
SB-5	SB5-SED-7.5	1274500	196550	152	229	> SL, <= ML, Non-detect	DDTs (total-calc'd)	3.2	0.32
SB-5	SB5-SED-7.5	1274500	196550	152	229	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.6	0.44
SB-5	SB5-SED-75	1274500	196550	2210	2286	> SQS/SL, <= CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.0	0.72
SB-5	SB5-SED-75	1274500	196550	2210	2286	> SQS/SL, <= CSL/ML, Detect	Butyl benzyl phthalate	5.8	0.78
SouthParkMarina									
1 & 2	Comp 1	1274844	196140	0	122	> CSL/ML, Non-detect	Diethyl phthalate	2.0	1.3
1 & 2	Comp 1	1274844	196140	0	122	> CSL/ML, Non-detect	Di-n-octyl phthalate	15	3.0
1 & 2	Comp 1	1274844	196140	0	122	> CSL/ML, Non-detect	Bis(2-ethylhexyl)phthalate	2.4	1.6
1 & 2	Comp 1	1274844	196140	0	122	> CSL/ML, Non-detect	2-Methylphenol	1.9	1.9
1 & 2	Comp 1	1274844	196140	0	122	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	7.5	1.0
1 & 2	Comp 1	1274844	196140	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	1.0	0.33
1 & 2	Comp 1	1274844	196140	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	2.6	0.24
1 & 2	Comp 1	1274844	196140	0	122	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	2.3	1.0
3 & 4	Comp 2	1274723	196251	0	122	> CSL/ML, Non-detect	2-Methylphenol	1.9	1.9
3 & 4	Comp 2	1274723	196251	0	122	> CSL/ML, Non-detect	Bis(2-ethylhexyl)phthalate	2.4	1.6
3 & 4	Comp 2	1274723	196251	0	122	> CSL/ML, Non-detect	Diethyl phthalate	2.0	1.3
3 & 4	Comp 2	1274723	196251	0	122	> CSL/ML, Non-detect	Di-n-octyl phthalate	15	3.0
3 & 4	Comp 2	1274723	196251	0	122	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	7.5	1.0
3 & 4	Comp 2	1274723	196251	0	122	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	2.3	1.0

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
3 & 4	Comp 2	1274723	196251	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	1.0	0.33
3 & 4	Comp 2	1274723	196251	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	2.6	0.24
T117BoundaryDefinition									
T117-SE-15-SC	T117-SE15-SC-01	1275420	195740	0	30	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.3	0.24
T117-SE-15-SC	T117-SE15-SC-12	1275420	195740	30	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.4	0.26
T117-SE-15-SC	T117-SE15-SC-24	1275420	195740	61	122	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.2	0.22
T117-SE-16-SC	T117-SE16-SC-0.9-1.3	1275405	195716	27	40	> CSL/ML, Detect	PCBs (total calc'd)	12	2.1
T117-SE-16-SC	T117-SE16-SC-0-0.9	1275405	195716	0	27	> CSL/ML, Detect	PCBs (total calc'd)	17	3.1
T117-SE-16-SC	T117-SE16-SC-1.3-2	1275405	195716	40	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.5	0.65
T117-SE-16-SC	T117-SE16-SC-24	1275405	195716	61	122	> CSL/ML, Detect	PCBs (total calc'd)	6.6	1.2
T117-SE-16-SC	T117-SE16-SC-68	1275405	195716	183	244	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.6	0.47
T117-SE-17-SC	T117-SE17-SC-01	1275384	195692	0	30	> CSL/ML, Detect	PCBs (total calc'd)	16	3.0
T117-SE-17-SC	T117-SE17-SC-12	1275384	195692	30	61	> CSL/ML, Detect	PCBs (total calc'd)	12	2.2
T117-SE-17-SC	T117-SE17-SC-24	1275384	195692	61	122	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.1	0.20
T117-SE-17-SC	T117-SE17-SC-24	1275384	195692	61	122	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.1	0.51
T117-SE-17-SC	T117-SE17-SC-24	1275384	195692	61	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.4	0.40
T117-SE-17-SC	T117-SE17-SC-46	1275384	195692	122	183	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.0	1.3
T117-SE-17-SC	T117-SE17-SC-46	1275384	195692	122	183	> CSL/ML, Non-detect	1,2-Dichlorobenzene	1.0	1.0
T117-SE-17-SC	T117-SE17-SC-46	1275384	195692	122	183	> CSL/ML, Non-detect	Hexachlorobenzene	6.3	1.0
T117-SE-17-SC	T117-SE17-SC-68	1275384	195692	183	244	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.0	0.19
T117-SE-20-SC	T117-SE20-SC-01	1275468	195650	0	30	> CSL/ML, Detect	PCBs (total calc'd)	21	3.9
T117-SE-20-SC	T117-SE20-SC-12	1275468	195650	30	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.3	0.43
T117-SE-20-SC	T117-SE20-SC-24	1275468	195650	61	122	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.1	0.20
T117-SE-21-SC	T117-SE21-SC-01	1275433	195633	0	30	> CSL/ML, Detect	PCBs (total calc'd)	63	12
T117-SE-21-SC	T117-SE21-SC-12	1275433	195633	30	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.3	0.24
T117-SE-21-SC	T117-SE21-SC-24	1275433	195633	61	122	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	2.5	1.1
T117-SE-21-SC	T117-SE21-SC-24	1275433	195633	61	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	5.3	0.87
T117-SE-23-SC	T117-SE23-SC-46	1275568	195604	122	183	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.4	0.26
T117-SE-24-SC	T117-SE24-SC-01	1275518	195582	0	30	> CSL/ML, Detect	PCBs (total calc'd)	9.1	1.7
T117-SE-25-SC	T117-SE25-SC-01	1275472	195553	0	30	> CSL/ML, Detect	PCBs (total calc'd)	22	4.0
T117-SE-25-SC	T117-SE25-SC-12	1275472	195553	30	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.6	0.29
T117-SE-25-SC	T117-SE25-SC-24	1275472	195553	61	122	> SQS/SL, <= CSL/ML, Detect	Acenaphthene	1.8	0.51
T117-SE-25-SC	T117-SE25-SC-24	1275472	195553	61	122	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.2	0.53
T117-SE-25-SC	T117-SE25-SC-24	1275472	195553	61	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	2.5	0.41
T117-SE-30-SC	T117-SE30-SC-01	1275579	195473	0	30	> CSL/ML, Detect	PCBs (total calc'd)	6.9	1.3
T117-SE-30-SC	T117-SE30-SC-12	1275579	195473	30	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.0	0.19
T117-SE-31-SC	T117-SE31-SC-01	1275534	195445	0	30	> CSL/ML, Detect	PCBs (total calc'd)	210	39

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
T117-SE-31-SC	T117-SE31-SC-12	1275534	195445	30	61	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.6	0.74
T117-SE-31-SC	T117-SE31-SC-12	1275534	195445	30	61	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	3.5	0.58
T117-SE-35-SC	T117-SE35-SC-12	1275664	195438	30	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.1	0.39
T117-SE-35-SC	T117-SE35-SC-24	1275664	195438	61	122	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.8	0.71
T117-SE-35-SC	T117-SE35-SC-46	1275664	195438	122	183	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.5	0.28
T117-SE-35-SC	T117-SE35-SC-68	1275664	195438	183	244	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	1.2	0.22
T117-SE-37-SC	T117-SE37-SC-01	1275565	195377	0	30	> CSL/ML, Detect	PCBs (total calc'd)	24	3.1
T117-SE-37-SC	T117-SE37-SC-12	1275565	195377	30	61	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	1.8	0.17
T117-SE-42-SC	T117-SE42-SC-01	1275667	195279	0	30	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.0	0.56
T117-SE-70-SC	T117-SE70-SC-0.5-1	1275306	195734	15	30	> CSL/ML, Detect	PCBs (total calc'd)	46	8.5
T117-SE-70-SC	T117-SE70-SC-12	1275306	195734	30	61	> CSL/ML, Detect	PCBs (total calc'd)	6.1	1.1
T117-SE-71-SC	T117-SE71-SC-01	1275217	195778	0	30	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	4.7	0.86
T117-SE-72-SC	T117-SE72-SC-01	1275143	195780	0	30	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	2.0	0.38
T117-SE-72-SC	T117-SE72-SC-12	1275143	195780	30	61	> CSL/ML, Detect	PCBs (total calc'd)	6.2	1.1
T117-SE-72-SC	T117-SE72-SC-2-2.4	1275143	195780	61	73	> CSL/ML, Detect	PCBs (total calc'd)	9.2	1.7
T117-SE-COMP2 and3-SC	T117-SC-COMP2	1275238	195806	61	122	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.5	0.66
T117-SE-COMP2 and3-SC	T117-SC-COMP3	1275238	195806	0	61	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.5	0.64
T117-SE-COMP2 and3-SC	T117-SC-COMP3	1275238	195806	0	61	> SQS/SL, <= CSL/ML, Non-detect	1,2,4-Trichlorobenzene	1.0	0.45
Terminal 105									
A1	A1-2	1266127	209919	229	305	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	24	14
A1	A1-2	1266127	209919	229	305	> CSL/ML, Detect	1,2,4-Trichlorobenzene	23	10
A1	A1-2	1266127	209919	229	305	> CSL/ML, Detect	1,2-Dichlorobenzene	8.0	8.0
A1	A1-2	1266127	209919	229	305	> ML, Non-detect	Ethylbenzene	14	2.8
A1	A1-2	1266127	209919	229	305	> CSL/ML, Non-detect	1,4-Dichlorobenzene	13	4.5
A1	A1-2	1266127	209919	229	305	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	1.7	1.7
A1	A1-2	1266127	209919	229	305	> CSL/ML, Non-detect	Hexachlorobenzene	48	8.0
A1	A1-2	1266127	209919	229	305	> CSL/ML, Non-detect	Diethyl phthalate	3.3	1.8
A1	A1-2	1266127	209919	229	305	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
A1	A1-2	1266127	209919	229	305	> CSL/ML, Non-detect	Hexachlorobutadiene	2.4	1.5
A1	A1-2	1266127	209919	229	305	> SQS/SL, <= CSL/ML, Non-detect	Dibenzo(a,h)anthracene	2.0	0.72
A1	A1-2	1266127	209919	229	305	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	4.9	0.37
A1	A1-2	1266127	209919	229	305	> SQS/SL, <= CSL/ML, Non-detect	Benzo(g,h,i)perylene	1.2	0.49
A1	A1-2	1266127	209919	229	305	> SQS/SL, <= CSL/ML, Non-detect	Indeno(1,2,3-cd)pyrene	1.0	0.40
A1	A1-2	1266127	209919	229	305	> SQS/SL, <= CSL/ML, Non-detect	Acenaphthene	1.1	0.32
A1	A1-3	1266127	209919	381	427	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	2.0	1.3

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
A1	A1-3	1266127	209919	381	427	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
A1	A1-3	1266127	209919	381	427	> CSL/ML, Non-detect	Diethyl phthalate	23	15
A1	A1-3	1266127	209919	381	427	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
A1	A1-3	1266127	209919	381	427	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
A1	A1-3	1266127	209919	381	427	> ML, Non-detect	Ethylbenzene	14	2.8
A1	A1-3	1266127	209919	381	427	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
A1	A1-3	1266127	209919	381	427	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
A1	A1-3	1266127	209919	381	427	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
A1	A1-3	1266127	209919	381	427	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
A1	A1-3	1266127	209919	381	427	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
A1	A1-3	1266127	209919	381	427	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
A1-1/A2-1/A3-1	A1-1/A2-1/A3-1	1266167	209932	0	107	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	4.4	2.7
A1-1/A2-1/A3-1	A1-1/A2-1/A3-1	1266167	209932	0	107	> CSL/ML, Non-detect	Hexachlorobenzene	19	3.1
A1-1/A2-1/A3-1	A1-1/A2-1/A3-1	1266167	209932	0	107	> ML, Non-detect	Ethylbenzene	14	2.8
A1-1/A2-1/A3-1	A1-1/A2-1/A3-1	1266167	209932	0	107	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	8.8	4.0
A1-1/A2-1/A3-1	A1-1/A2-1/A3-1	1266167	209932	0	107	> CSL/ML, Non-detect	1,2-Dichlorobenzene	3.1	3.1
A1-1/A2-1/A3-1	A1-1/A2-1/A3-1	1266167	209932	0	107	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
A1-1/A2-1/A3-1	A1-1/A2-1/A3-1	1266167	209932	0	107	> CSL/ML, Non-detect	1,4-Dichlorobenzene	5.1	1.7
A1-1/A2-1/A3-1	A1-1/A2-1/A3-1	1266167	209932	0	107	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	1.9	0.15
A1-1/A2-1/A3-1	A1-1/A2-1/A3-1	1266167	209932	0	107	> SQS/SL, <= CSL/ML, Non-detect	Diethyl phthalate	1.3	0.71
A2	A2-2	1266166	209932	183	305	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	27	16
A2	A2-2	1266166	209932	183	305	> CSL/ML, Non-detect	Diethyl phthalate	2.7	1.5
A2	A2-2	1266166	209932	183	305	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	1.3	1.3
A2	A2-2	1266166	209932	183	305	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	18	8.2
A2	A2-2	1266166	209932	183	305	> CSL/ML, Non-detect	1,2-Dichlorobenzene	6.4	6.4
A2	A2-2	1266166	209932	183	305	> CSL/ML, Non-detect	1,4-Dichlorobenzene	10	3.6
A2	A2-2	1266166	209932	183	305	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
A2	A2-2	1266166	209932	183	305	> CSL/ML, Non-detect	Hexachlorobutadiene	1.9	1.2
A2	A2-2	1266166	209932	183	305	> CSL/ML, Non-detect	Hexachlorobenzene	39	6.4
A2	A2-2	1266166	209932	183	305	> ML, Non-detect	Ethylbenzene	14	2.8
A2	A2-2	1266166	209932	183	305	> SQS/SL, <= CSL/ML, Detect	Di-n-octyl phthalate	38	0.49
A2	A2-2	1266166	209932	183	305	> SQS/SL, <= CSL/ML, Detect	Butyl benzyl phthalate	4.1	0.31
A2	A2-2	1266166	209932	183	305	> SQS/SL, <= CSL/ML, Non-detect	Dibenzo(a,h)anthracene	1.6	0.58
A2	A2-3	1266166	209932	335	442	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	18	11
A2	A2-3	1266166	209932	335	442	> CSL/ML, Non-detect	Hexachlorobenzene	32	5.2
A2	A2-3	1266166	209932	335	442	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	1.1	1.1
A2	A2-3	1266166	209932	335	442	> ML, Non-detect	Ethylbenzene	14	2.8

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
A2	A2-3	1266166	209932	335	442	> CSL/ML, Non-detect	Diethyl phthalate	2.2	1.2
A2	A2-3	1266166	209932	335	442	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
A2	A2-3	1266166	209932	335	442	> CSL/ML, Non-detect	1,4-Dichlorobenzene	8.6	2.9
A2	A2-3	1266166	209932	335	442	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	15	6.7
A2	A2-3	1266166	209932	335	442	> CSL/ML, Non-detect	1,2-Dichlorobenzene	5.2	5.2
A2	A2-3	1266166	209932	335	442	> SQS/SL, <= CSL/ML, Non-detect	Dibenzo(a,h)anthracene	1.3	0.47
A2	A2-3	1266166	209932	335	442	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	1.5	0.97
A2	A2-3	1266166	209932	335	442	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	3.2	0.24
A2	A2-4	1266166	209932	488	579	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	5.3	3.7
A2	A2-4	1266166	209932	488	579	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
A2	A2-4	1266166	209932	488	579	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
A2	A2-4	1266166	209932	488	579	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
A2	A2-4	1266166	209932	488	579	> ML, Non-detect	Ethylbenzene	14	2.8
A2	A2-4	1266166	209932	488	579	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
A2	A2-4	1266166	209932	488	579	> CSL/ML, Non-detect	Diethyl phthalate	23	15
A2	A2-4	1266166	209932	488	579	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
A2	A2-4	1266166	209932	488	579	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
A2	A2-4	1266166	209932	488	579	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
A2	A2-4	1266166	209932	488	579	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
A2	A2-4	1266166	209932	488	579	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
A2-5/A3-R3	A2-5/A3-R3	1266187	209939	640	762	> CSL/ML, Non-detect	Diethyl phthalate	23	15
A2-5/A3-R3	A2-5/A3-R3	1266187	209939	640	762	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
A2-5/A3-R3	A2-5/A3-R3	1266187	209939	640	762	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
A2-5/A3-R3	A2-5/A3-R3	1266187	209939	640	762	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
A2-5/A3-R3	A2-5/A3-R3	1266187	209939	640	762	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
A2-5/A3-R3	A2-5/A3-R3	1266187	209939	640	762	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
A2-5/A3-R3	A2-5/A3-R3	1266187	209939	640	762	> ML, Non-detect	Ethylbenzene	14	2.8
A2-5/A3-R3	A2-5/A3-R3	1266187	209939	640	762	> SQS/SL, <= CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.2	0.84
A2-5/A3-R3	A2-5/A3-R3	1266187	209939	640	762	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
A2-5/A3-R3	A2-5/A3-R3	1266187	209939	640	762	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
A2-5/A3-R3	A2-5/A3-R3	1266187	209939	640	762	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
A2-5/A3-R3	A2-5/A3-R3	1266187	209939	640	762	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
A2-6/A3-R4/A3-R6	A2-6/A3-R4/A3-R6	1266187	209939	792	1067	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.7	1.2
A2-6/A3-R4/A3-R6	A2-6/A3-R4/A3-R6	1266187	209939	792	1067	> CSL/ML, Non-detect	Diethyl phthalate	23	15
A2-6/A3-R4/A3-R6	A2-6/A3-R4/A3-R6	1266187	209939	792	1067	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
A2-6/A3-R4/A3-R6	A2-6/A3-R4/A3-R6	1266187	209939	792	1067	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
A2-6/A3-R4/A3-R6	A2-6/A3-R4/A3-R6	1266187	209939	792	1067	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
A2-6/A3-R4/A3-R6	A2-6/A3-R4/A3-R6	1266187	209939	792	1067	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
A2-6/A3-R4/A3-R6	A2-6/A3-R4/A3-R6	1266187	209939	792	1067	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
A2-6/A3-R4/A3-R6	A2-6/A3-R4/A3-R6	1266187	209939	792	1067	> ML, Non-detect	Ethylbenzene	14	2.8
A2-6/A3-R4/A3-R6	A2-6/A3-R4/A3-R6	1266187	209939	792	1067	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
A2-6/A3-R4/A3-R6	A2-6/A3-R4/A3-R6	1266187	209939	792	1067	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
A2-6/A3-R4/A3-R6	A2-6/A3-R4/A3-R6	1266187	209939	792	1067	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
A2-6/A3-R4/A3-R6	A2-6/A3-R4/A3-R6	1266187	209939	792	1067	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
A3	A3-2	1266208	209946	213	274	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	7.0	4.8
A3	A3-2	1266208	209946	213	274	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
A3	A3-2	1266208	209946	213	274	> ML, Non-detect	Ethylbenzene	14	2.8
A3	A3-2	1266208	209946	213	274	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
A3	A3-2	1266208	209946	213	274	> CSL/ML, Non-detect	Diethyl phthalate	23	15
A3	A3-2	1266208	209946	213	274	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
A3	A3-2	1266208	209946	213	274	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
A3	A3-2	1266208	209946	213	274	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
A3	A3-2	1266208	209946	213	274	> SQS/SL, <= CSL/ML, Detect	Hexachlorobutadiene	4.5	0.42
A3	A3-2	1266208	209946	213	274	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
A3	A3-2	1266208	209946	213	274	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
A3	A3-2	1266208	209946	213	274	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
A3	A3-R1	1266208	209946	381	457	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	8.5	5.8
A3	A3-R1	1266208	209946	381	457	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
A3	A3-R1	1266208	209946	381	457	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
A3	A3-R1	1266208	209946	381	457	> ML, Non-detect	Ethylbenzene	14	2.8
A3	A3-R1	1266208	209946	381	457	> CSL/ML, Non-detect	Diethyl phthalate	23	15
A3	A3-R1	1266208	209946	381	457	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
A3	A3-R1	1266208	209946	381	457	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
A3	A3-R1	1266208	209946	381	457	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
A3	A3-R1	1266208	209946	381	457	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
A3	A3-R1	1266208	209946	381	457	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
A3	A3-R1	1266208	209946	381	457	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
A3	A3-R1	1266208	209946	381	457	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
A3	A3-R2	1266208	209946	533	610	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	6.0	4.1
A3	A3-R2	1266208	209946	533	610	> CSL/ML, Detect	Cadmium	5.7	4.3
A3	A3-R2	1266208	209946	533	610	> ML, Non-detect	Ethylbenzene	14	2.8
A3	A3-R2	1266208	209946	533	610	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
A3	A3-R2	1266208	209946	533	610	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
A3	A3-R2	1266208	209946	533	610	> CSL/ML, Non-detect	Diethyl phthalate	23	15

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
A3	A3-R2	1266208	209946	533	610	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
A3	A3-R2	1266208	209946	533	610	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
A3	A3-R2	1266208	209946	533	610	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
A3	A3-R2	1266208	209946	533	610	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
A3	A3-R2	1266208	209946	533	610	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
A3	A3-R2	1266208	209946	533	610	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
A3	A3-R2	1266208	209946	533	610	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
B1	B1-2	1266085	210061	168	290	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	31	21
B1	B1-2	1266085	210061	168	290	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
B1	B1-2	1266085	210061	168	290	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
B1	B1-2	1266085	210061	168	290	> CSL/ML, Non-detect	Diethyl phthalate	23	15
B1	B1-2	1266085	210061	168	290	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
B1	B1-2	1266085	210061	168	290	> ML, Non-detect	Ethylbenzene	14	2.8
B1	B1-2	1266085	210061	168	290	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
B1	B1-2	1266085	210061	168	290	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
B1	B1-2	1266085	210061	168	290	> SQS/SL, <= CSL/ML, Detect	Butyl benzyl phthalate	1.7	0.23
B1	B1-2	1266085	210061	168	290	> SL, <= ML, Detect	Trichloroethene	2.9	0.29
B1	B1-2	1266085	210061	168	290	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
B1	B1-2	1266085	210061	168	290	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
B1	B1-2	1266085	210061	168	290	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
B1-1/B2-1/B3-1	B1-1/B2-1/B3-1	1266125	210078	0	168	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	16	9.9
B1-1/B2-1/B3-1	B1-1/B2-1/B3-1	1266125	210078	0	168	> ML, Non-detect	Ethylbenzene	14	2.8
B1-1/B2-1/B3-1	B1-1/B2-1/B3-1	1266125	210078	0	168	> CSL/ML, Non-detect	Hexachlorobenzene	12	1.9
B1-1/B2-1/B3-1	B1-1/B2-1/B3-1	1266125	210078	0	168	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
B1-1/B2-1/B3-1	B1-1/B2-1/B3-1	1266125	210078	0	168	> CSL/ML, Non-detect	1,4-Dichlorobenzene	3.2	1.1
B1-1/B2-1/B3-1	B1-1/B2-1/B3-1	1266125	210078	0	168	> CSL/ML, Non-detect	1,2-Dichlorobenzene	1.9	1.9
B1-1/B2-1/B3-1	B1-1/B2-1/B3-1	1266125	210078	0	168	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	5.5	2.5
B1-1/B2-1/B3-1	B1-1/B2-1/B3-1	1266125	210078	0	168	> SQS/SL, <= CSL/ML, Detect	Mercury	1.3	0.92
B1-1/B2-1/B3-1	B1-1/B2-1/B3-1	1266125	210078	0	168	> SQS/SL, <= CSL/ML, Detect	PCBs (total calc'd)	3.4	0.62
B1-1/B2-1/B3-1	B1-1/B2-1/B3-1	1266125	210078	0	168	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	1.2	0.090
B2	B2-2	1266126	210077	152	274	> CSL/ML, Non-detect	Hexachlorobenzene	22	3.6
B2	B2-2	1266126	210077	152	274	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	10	4.6
B2	B2-2	1266126	210077	152	274	> CSL/ML, Non-detect	1,2-Dichlorobenzene	3.6	3.6
B2	B2-2	1266126	210077	152	274	> CSL/ML, Non-detect	1,4-Dichlorobenzene	5.9	2.0
B2	B2-2	1266126	210077	152	274	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
B2	B2-2	1266126	210077	152	274	> CSL/ML, Non-detect	Bis(2-ethylhexyl)phthalate	11	6.7
B2	B2-2	1266126	210077	152	274	> ML, Non-detect	Ethylbenzene	14	2.8

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
B2	B2-2	1266126	210077	152	274	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	1.1	0.67
B2	B2-2	1266126	210077	152	274	> SQS/SL, <= CSL/ML, Non-detect	Diethyl phthalate	1.5	0.83
B2	B2-2	1266126	210077	152	274	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.2	0.17
B2	B2-3	1266126	210077	305	442	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	6.8	4.7
B2	B2-3	1266126	210077	305	442	> CSL/ML, Non-detect	Diethyl phthalate	23	15
B2	B2-3	1266126	210077	305	442	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
B2	B2-3	1266126	210077	305	442	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
B2	B2-3	1266126	210077	305	442	> ML, Non-detect	Ethylbenzene	14	2.8
B2	B2-3	1266126	210077	305	442	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
B2	B2-3	1266126	210077	305	442	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
B2	B2-3	1266126	210077	305	442	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
B2	B2-3	1266126	210077	305	442	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
B2	B2-3	1266126	210077	305	442	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
B2	B2-3	1266126	210077	305	442	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
B2	B2-3	1266126	210077	305	442	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
B3	B3-2	1266163	210094	183	305	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	31	19
B3	B3-2	1266163	210094	183	305	> CSL/ML, Non-detect	Hexachlorobenzene	27	4.4
B3	B3-2	1266163	210094	183	305	> ML, Non-detect	Ethylbenzene	14	2.8
B3	B3-2	1266163	210094	183	305	> CSL/ML, Non-detect	Diethyl phthalate	1.8	1.0
B3	B3-2	1266163	210094	183	305	> CSL/ML, Non-detect	1,4-Dichlorobenzene	7.2	2.5
B3	B3-2	1266163	210094	183	305	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	13	5.7
B3	B3-2	1266163	210094	183	305	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
B3	B3-2	1266163	210094	183	305	> CSL/ML, Non-detect	1,2-Dichlorobenzene	4.4	4.4
B3	B3-2	1266163	210094	183	305	> SQS/SL, <= CSL/ML, Detect	Di-n-octyl phthalate	1.5	0.019
B3	B3-2	1266163	210094	183	305	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.7	0.21
B3	B3-2	1266163	210094	183	305	> SQS/SL, <= CSL/ML, Non-detect	Dibenzo(a,h)anthracene	1.1	0.40
B3	B3-2	1266163	210094	183	305	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	1.3	0.82
B3	B3-3	1266163	210094	335	442	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	9.2	6.3
B3	B3-3	1266163	210094	335	442	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
B3	B3-3	1266163	210094	335	442	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
B3	B3-3	1266163	210094	335	442	> ML, Non-detect	Ethylbenzene	14	2.8
B3	B3-3	1266163	210094	335	442	> CSL/ML, Non-detect	Diethyl phthalate	23	15
B3	B3-3	1266163	210094	335	442	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
B3	B3-3	1266163	210094	335	442	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
B3	B3-3	1266163	210094	335	442	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
B3	B3-3	1266163	210094	335	442	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
B3	B3-3	1266163	210094	335	442	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
B3	B3-3	1266163	210094	335	442	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
B3	B3-3	1266163	210094	335	442	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
B3	B3-4	1266163	210094	488	610	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	7.5	5.1
B3	B3-4	1266163	210094	488	610	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
B3	B3-4	1266163	210094	488	610	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
B3	B3-4	1266163	210094	488	610	> ML, Non-detect	Ethylbenzene	14	2.8
B3	B3-4	1266163	210094	488	610	> CSL/ML, Non-detect	Diethyl phthalate	23	15
B3	B3-4	1266163	210094	488	610	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
B3	B3-4	1266163	210094	488	610	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
B3	B3-4	1266163	210094	488	610	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
B3	B3-4	1266163	210094	488	610	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
B3	B3-4	1266163	210094	488	610	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
B3	B3-4	1266163	210094	488	610	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
B3	B3-4	1266163	210094	488	610	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
B3-5/B3-6	B3-5/B3-6	1266163	210095	640	914	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	2.5	1.7
B3-5/B3-6	B3-5/B3-6	1266163	210095	640	914	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
B3-5/B3-6	B3-5/B3-6	1266163	210095	640	914	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
B3-5/B3-6	B3-5/B3-6	1266163	210095	640	914	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
B3-5/B3-6	B3-5/B3-6	1266163	210095	640	914	> ML, Non-detect	Ethylbenzene	14	2.8
B3-5/B3-6	B3-5/B3-6	1266163	210095	640	914	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
B3-5/B3-6	B3-5/B3-6	1266163	210095	640	914	> CSL/ML, Non-detect	Diethyl phthalate	23	15
B3-5/B3-6	B3-5/B3-6	1266163	210095	640	914	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
B3-5/B3-6	B3-5/B3-6	1266163	210095	640	914	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
B3-5/B3-6	B3-5/B3-6	1266163	210095	640	914	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
B3-5/B3-6	B3-5/B3-6	1266163	210095	640	914	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
B3-5/B3-6	B3-5/B3-6	1266163	210095	640	914	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
C1	C1-1	1266023	210269	0	107	> ML, Non-detect	Ethylbenzene	14	2.8
C1	C1-1	1266023	210269	0	107	> CSL/ML, Non-detect	Diethyl phthalate	23	15
C1	C1-1	1266023	210269	0	107	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
C1	C1-1	1266023	210269	0	107	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
C1	C1-1	1266023	210269	0	107	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
C1	C1-1	1266023	210269	0	107	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
C1	C1-1	1266023	210269	0	107	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
C1	C1-1	1266023	210269	0	107	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
C1	C1-1	1266023	210269	0	107	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
C1	C1-1	1266023	210269	0	107	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
C1	C1-1	1266023	210269	0	107	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
C1	C1-2	1266023	210269	152	259	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	15	9.9
C1	C1-2	1266023	210269	152	259	> CSL/ML, Non-detect	Diethyl phthalate	23	15
C1	C1-2	1266023	210269	152	259	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
C1	C1-2	1266023	210269	152	259	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
C1	C1-2	1266023	210269	152	259	> ML, Non-detect	Ethylbenzene	14	2.8
C1	C1-2	1266023	210269	152	259	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
C1	C1-2	1266023	210269	152	259	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
C1	C1-2	1266023	210269	152	259	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
C1	C1-2	1266023	210269	152	259	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
C1	C1-2	1266023	210269	152	259	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
C1	C1-2	1266023	210269	152	259	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
C1	C1-2	1266023	210269	152	259	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
C1	C1-3	1266023	210269	305	381	> CSL/ML, Detect	Di-n-octyl phthalate	16	3.2
C1	C1-3	1266023	210269	305	381	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	5.2	3.5
C1	C1-3	1266023	210269	305	381	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
C1	C1-3	1266023	210269	305	381	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
C1	C1-3	1266023	210269	305	381	> ML, Non-detect	Ethylbenzene	14	2.8
C1	C1-3	1266023	210269	305	381	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
C1	C1-3	1266023	210269	305	381	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
C1	C1-3	1266023	210269	305	381	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
C1	C1-3	1266023	210269	305	381	> CSL/ML, Non-detect	Diethyl phthalate	23	15
C1	C1-3	1266023	210269	305	381	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
C1	C1-3	1266023	210269	305	381	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
C1	C1-3	1266023	210269	305	381	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
C1	C1-3	1266023	210269	305	381	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
C1	C1-4	1266023	210269	457	564	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	3.3	2.3
C1	C1-4	1266023	210269	457	564	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
C1	C1-4	1266023	210269	457	564	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
C1	C1-4	1266023	210269	457	564	> ML, Non-detect	Ethylbenzene	14	2.8
C1	C1-4	1266023	210269	457	564	> CSL/ML, Non-detect	Diethyl phthalate	23	15
C1	C1-4	1266023	210269	457	564	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
C1	C1-4	1266023	210269	457	564	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
C1	C1-4	1266023	210269	457	564	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
C1	C1-4	1266023	210269	457	564	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
C1	C1-4	1266023	210269	457	564	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
C1	C1-4	1266023	210269	457	564	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
C1	C1-4	1266023	210269	457	563.88	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
C2	C2-2	1266066	210286	213	320	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	7.7	5.3
C2	C2-2	1266066	210286	213	320	> CSL/ML, Non-detect	Diethyl phthalate	23	15
C2	C2-2	1266066	210286	213	320	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
C2	C2-2	1266066	210286	213	320	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
C2	C2-2	1266066	210286	213	320	> ML, Non-detect	Ethylbenzene	14	2.8
C2	C2-2	1266066	210286	213	320	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
C2	C2-2	1266066	210286	213	320	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
C2	C2-2	1266066	210286	213	320	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
C2	C2-2	1266066	210286	213	320	> SQS/SL, <= CSL/ML, Detect	Di-n-octyl phthalate	1.1	0.22
C2	C2-2	1266066	210286	213	320	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
C2	C2-2	1266066	210286	213	320	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
C2	C2-2	1266066	210286	213	320	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
C2	C2-2	1266066	210286	213	320	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
C2	C2-3	1266066	210286	366	457	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	5.0	3.5
C2	C2-3	1266066	210286	366	457	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
C2	C2-3	1266066	210286	366	457	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
C2	C2-3	1266066	210286	366	457	> ML, Non-detect	Ethylbenzene	14	2.8
C2	C2-3	1266066	210286	366	457	> CSL/ML, Non-detect	Diethyl phthalate	23	15
C2	C2-3	1266066	210286	366	457	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
C2	C2-3	1266066	210286	366	457	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
C2	C2-3	1266066	210286	366	457	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
C2	C2-3	1266066	210286	366	457	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
C2	C2-3	1266066	210286	366	457	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
C2	C2-3	1266066	210286	366	457	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
C2	C2-3	1266066	210286	366	457	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
C2	C2-4	1266066	210286	518	625	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	7.8	5.4
C2	C2-4	1266066	210286	518	625	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
C2	C2-4	1266066	210286	518	625	> ML, Non-detect	Ethylbenzene	14	2.8
C2	C2-4	1266066	210286	518	625	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
C2	C2-4	1266066	210286	518	625	> CSL/ML, Non-detect	Diethyl phthalate	23	15
C2	C2-4	1266066	210286	518	625	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
C2	C2-4	1266066	210286	518	625	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
C2	C2-4	1266066	210286	518	625	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
C2	C2-4	1266066	210286	518	625	> SQS/SL, <= CSL/ML, Detect	Di-n-octyl phthalate	1.2	0.24
C2	C2-4	1266066	210286	518	625	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
C2	C2-4	1266066	210286	518	625	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
C2	C2-4	1266066	210286	518	625	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
C2	C2-4	1266066	210286	518	625	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
C2-1/C3-1	C2-1/C3-1	1266084	210293	0	152	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
C2-1/C3-1	C2-1/C3-1	1266084	210293	0	152	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
C2-1/C3-1	C2-1/C3-1	1266084	210293	0	152	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
C2-1/C3-1	C2-1/C3-1	1266084	210293	0	152	> ML, Non-detect	Ethylbenzene	14	2.8
C2-1/C3-1	C2-1/C3-1	1266084	210293	0	152	> CSL/ML, Non-detect	Diethyl phthalate	23	15
C2-1/C3-1	C2-1/C3-1	1266084	210293	0	152	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
C2-1/C3-1	C2-1/C3-1	1266084	210293	0	152	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
C2-1/C3-1	C2-1/C3-1	1266084	210293	0	152	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
C2-1/C3-1	C2-1/C3-1	1266084	210293	0	152	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
C2-1/C3-1	C2-1/C3-1	1266084	210293	0	152	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
C2-1/C3-1	C2-1/C3-1	1266084	210293	0	152	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
C2-5/C2-6	C2-5/C2-6	1266066	210286	671	914	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	13	8.6
C2-5/C2-6	C2-5/C2-6	1266066	210286	671	914	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
C2-5/C2-6	C2-5/C2-6	1266066	210286	671	914	> ML, Non-detect	Ethylbenzene	14	2.8
C2-5/C2-6	C2-5/C2-6	1266066	210286	671	914	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
C2-5/C2-6	C2-5/C2-6	1266066	210286	671	914	> CSL/ML, Non-detect	Diethyl phthalate	23	15
C2-5/C2-6	C2-5/C2-6	1266066	210286	671	914	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
C2-5/C2-6	C2-5/C2-6	1266066	210286	671	914	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
C2-5/C2-6	C2-5/C2-6	1266066	210286	671	914	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
C2-5/C2-6	C2-5/C2-6	1266066	210286	671	914	> SQS/SL, <= CSL/ML, Detect	Di-n-octyl phthalate	3.8	0.76
C2-5/C2-6	C2-5/C2-6	1266066	210286	671	914	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
C2-5/C2-6	C2-5/C2-6	1266066	210286	671	914	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
C2-5/C2-6	C2-5/C2-6	1266066	210286	671	914	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
C2-5/C2-6	C2-5/C2-6	1266066	210286	671	914	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
C3	C3-2	1266102	210300	152	244	> CSL/ML, Detect	Acenaphthene	4.3	1.2
C3	C3-2	1266102	210300	152	244	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	4.8	2.9
C3	C3-2	1266102	210300	152	244	> CSL/ML, Non-detect	1,4-Dichlorobenzene	6.5	2.2
C3	C3-2	1266102	210300	152	244	> CSL/ML, Non-detect	1,2-Dichlorobenzene	4.0	4.0
C3	C3-2	1266102	210300	152	244	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	11	5.1
C3	C3-2	1266102	210300	152	244	> ML, Non-detect	Ethylbenzene	14	2.8
C3	C3-2	1266102	210300	152	244	> CSL/ML, Non-detect	Hexachlorobenzene	24	4.0
C3	C3-2	1266102	210300	152	244	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
C3	C3-2	1266102	210300	152	244	> SQS/SL, <= CSL/ML, Detect	Chrysene	3.6	0.87
C3	C3-2	1266102	210300	152	244	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.4	0.19
C3	C3-2	1266102	210300	152	244	> SQS/SL, <= CSL/ML, Non-detect	Diethyl phthalate	1.7	0.92
C3	C3-2	1266102	210300	152	244	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	1.2	0.74

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
C3	C3-3	1266102	210300	305	366	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	2.8	1.9
C3	C3-3	1266102	210300	305	366	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
C3	C3-3	1266102	210300	305	366	> ML, Non-detect	Ethylbenzene	14	2.8
C3	C3-3	1266102	210300	305	366	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
C3	C3-3	1266102	210300	305	366	> CSL/ML, Non-detect	Diethyl phthalate	23	15
C3	C3-3	1266102	210300	305	366	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
C3	C3-3	1266102	210300	305	366	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
C3	C3-3	1266102	210300	305	366	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
C3	C3-3	1266102	210300	305	366	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
C3	C3-3	1266102	210300	305	366	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
C3	C3-3	1266102	210300	305	366	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
C3	C3-3	1266102	210300	305	366	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
C3	C3-4	1266102	210300	457	579	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	3.2	2.2
C3	C3-4	1266102	210300	457	579	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
C3	C3-4	1266102	210300	457	579	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
C3	C3-4	1266102	210300	457	579	> ML, Non-detect	Ethylbenzene	14	2.8
C3	C3-4	1266102	210300	457	579	> CSL/ML, Non-detect	Diethyl phthalate	23	15
C3	C3-4	1266102	210300	457	579	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
C3	C3-4	1266102	210300	457	579	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
C3	C3-4	1266102	210300	457	579	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
C3	C3-4	1266102	210300	457	579	> SQS/SL, <= CSL/ML, Detect	Di-n-octyl phthalate	1.2	0.23
C3	C3-4	1266102	210300	457	579	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
C3	C3-4	1266102	210300	457	579	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
C3	C3-4	1266102	210300	457	579	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
C3	C3-4	1266102	210300	457	579	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
C3-5/C3-6	C3-5/C3-6	1266102	210300	610	853	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	4.0	2.7
C3-5/C3-6	C3-5/C3-6	1266102	210300	610	853	> CSL/ML, Non-detect	Diethyl phthalate	23	15
C3-5/C3-6	C3-5/C3-6	1266102	210300	610	853	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
C3-5/C3-6	C3-5/C3-6	1266102	210300	610	853	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
C3-5/C3-6	C3-5/C3-6	1266102	210300	610	853	> ML, Non-detect	Ethylbenzene	14	2.8
C3-5/C3-6	C3-5/C3-6	1266102	210300	610	853	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
C3-5/C3-6	C3-5/C3-6	1266102	210300	610	853	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
C3-5/C3-6	C3-5/C3-6	1266102	210300	610	853	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
C3-5/C3-6	C3-5/C3-6	1266102	210300	610	853	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
C3-5/C3-6	C3-5/C3-6	1266102	210300	610	853	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
C3-5/C3-6	C3-5/C3-6	1266102	210300	610	853	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
C3-5/C3-6	C3-5/C3-6	1266102	210300	610	853	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
D1	D1-2	1265953	210499	152	229	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	2.4	1.6
D1	D1-2	1265953	210499	152	229	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
D1	D1-2	1265953	210499	152	229	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
D1	D1-2	1265953	210499	152	229	> ML, Non-detect	Ethylbenzene	14	2.8
D1	D1-2	1265953	210499	152	229	> CSL/ML, Non-detect	Diethyl phthalate	23	15
D1	D1-2	1265953	210499	152	229	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
D1	D1-2	1265953	210499	152	229	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
D1	D1-2	1265953	210499	152	229	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
D1	D1-2	1265953	210499	152	229	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
D1	D1-2	1265953	210499	152	229	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
D1	D1-2	1265953	210499	152	229	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
D1	D1-2	1265953	210499	152	229	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
D1	D1-3	1265953	210499	305	381	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	2.9	2.0
D1	D1-3	1265953	210499	305	381	> CSL/ML, Non-detect	Diethyl phthalate	23	15
D1	D1-3	1265953	210499	305	381	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
D1	D1-3	1265953	210499	305	381	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
D1	D1-3	1265953	210499	305	381	> ML, Non-detect	Ethylbenzene	14	2.8
D1	D1-3	1265953	210499	305	381	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
D1	D1-3	1265953	210499	305	381	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
D1	D1-3	1265953	210499	305	381	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
D1	D1-3	1265953	210499	305	381	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
D1	D1-3	1265953	210499	305	381	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
D1	D1-3	1265953	210499	305	381	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
D1	D1-3	1265953	210499	305	381	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
D1	D1-4	1265953	210499	457	533	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	5.6	3.8
D1	D1-4	1265953	210499	457	533	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
D1	D1-4	1265953	210499	457	533	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
D1	D1-4	1265953	210499	457	533	> ML, Non-detect	Ethylbenzene	14	2.8
D1	D1-4	1265953	210499	457	533	> CSL/ML, Non-detect	Diethyl phthalate	23	15
D1	D1-4	1265953	210499	457	533	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
D1	D1-4	1265953	210499	457	533	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
D1	D1-4	1265953	210499	457	533	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
D1	D1-4	1265953	210499	457	533	> SQS/SL, <= CSL/ML, Detect	Di-n-octyl phthalate	1.2	0.24
D1	D1-4	1265953	210499	457	533	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
D1	D1-4	1265953	210499	457	533	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
D1	D1-4	1265953	210499	457	533	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
D1	D1-4	1265953	210499	457	533	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
D1-1/D2-1	D1-1/D2-1	1265975	210507	0	122	> CSL/ML, Non-detect	Diethyl phthalate	23	15
D1-1/D2-1	D1-1/D2-1	1265975	210507	0	122	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
D1-1/D2-1	D1-1/D2-1	1265975	210507	0	122	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
D1-1/D2-1	D1-1/D2-1	1265975	210507	0	122	> ML, Non-detect	Ethylbenzene	14	2.8
D1-1/D2-1	D1-1/D2-1	1265975	210507	0	122	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
D1-1/D2-1	D1-1/D2-1	1265975	210507	0	122	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
D1-1/D2-1	D1-1/D2-1	1265975	210507	0	122	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
D1-1/D2-1	D1-1/D2-1	1265975	210507	0	122	> SQS/SL, <= CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	1.3	0.87
D1-1/D2-1	D1-1/D2-1	1265975	210507	0	122	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
D1-1/D2-1	D1-1/D2-1	1265975	210507	0	122	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
D1-1/D2-1	D1-1/D2-1	1265975	210507	0	122	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
D1-1/D2-1	D1-1/D2-1	1265975	210507	0	122	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
D2	D2-2	1265996	210515	122	259	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	7.1	4.9
D2	D2-2	1265996	210515	122	259	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
D2	D2-2	1265996	210515	122	259	> ML, Non-detect	Ethylbenzene	14	2.8
D2	D2-2	1265996	210515	122	259	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
D2	D2-2	1265996	210515	122	259	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
D2	D2-2	1265996	210515	122	259	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
D2	D2-2	1265996	210515	122	259	> CSL/ML, Non-detect	Diethyl phthalate	23	15
D2	D2-2	1265996	210515	122	259	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
D2	D2-2	1265996	210515	122	259	> SQS/SL, <= CSL/ML, Detect	Di-n-octyl phthalate	1.3	0.25
D2	D2-2	1265996	210515	122	259	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
D2	D2-2	1265996	210515	122	259	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
D2	D2-2	1265996	210515	122	259	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
D2	D2-2	1265996	210515	122	259	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
D2	D2-3	1265996	210515	305	396	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	3.4	2.3
D2	D2-3	1265996	210515	305	396	> ML, Non-detect	Ethylbenzene	14	2.8
D2	D2-3	1265996	210515	305	396	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
D2	D2-3	1265996	210515	305	396	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
D2	D2-3	1265996	210515	305	396	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
D2	D2-3	1265996	210515	305	396	> CSL/ML, Non-detect	Diethyl phthalate	23	15
D2	D2-3	1265996	210515	305	396	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
D2	D2-3	1265996	210515	305	396	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
D2	D2-3	1265996	210515	305	396	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
D2	D2-3	1265996	210515	305	396	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
D2	D2-3	1265996	210515	305	396	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
D2	D2-3	1265996	210515	305	396	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
D2	D2-4	1265996	210515	457	579	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	2.7	1.8
D2	D2-4	1265996	210515	457	579	> CSL/ML, Non-detect	Diethyl phthalate	23	15
D2	D2-4	1265996	210515	457	579	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
D2	D2-4	1265996	210515	457	579	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
D2	D2-4	1265996	210515	457	579	> ML, Non-detect	Ethylbenzene	14	2.8
D2	D2-4	1265996	210515	457	579	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
D2	D2-4	1265996	210515	457	579	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
D2	D2-4	1265996	210515	457	579	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
D2	D2-4	1265996	210515	457	579	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
D2	D2-4	1265996	210515	457	579	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
D2	D2-4	1265996	210515	457	579	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
D2	D2-4	1265996	210515	457	579	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
D2-5/D2-6/D3-R6	D2-5/D2-6/D3-R6	1266015	210522	610	914	> CSL/ML, Detect	Phenol	4.0	1.4
D2-5/D2-6/D3-R6	D2-5/D2-6/D3-R6	1266015	210522	610	914	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	2.2	1.5
D2-5/D2-6/D3-R6	D2-5/D2-6/D3-R6	1266015	210522	610	914	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
D2-5/D2-6/D3-R6	D2-5/D2-6/D3-R6	1266015	210522	610	914	> ML, Non-detect	Ethylbenzene	14	2.8
D2-5/D2-6/D3-R6	D2-5/D2-6/D3-R6	1266015	210522	610	914	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
D2-5/D2-6/D3-R6	D2-5/D2-6/D3-R6	1266015	210522	610	914	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
D2-5/D2-6/D3-R6	D2-5/D2-6/D3-R6	1266015	210522	610	914	> CSL/ML, Non-detect	Diethyl phthalate	23	15
D2-5/D2-6/D3-R6	D2-5/D2-6/D3-R6	1266015	210522	610	914	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
D2-5/D2-6/D3-R6	D2-5/D2-6/D3-R6	1266015	210522	610	914	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
D2-5/D2-6/D3-R6	D2-5/D2-6/D3-R6	1266015	210522	610	914	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
D2-5/D2-6/D3-R6	D2-5/D2-6/D3-R6	1266015	210522	610	914	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
D2-5/D2-6/D3-R6	D2-5/D2-6/D3-R6	1266015	210522	610	914	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
D2-5/D2-6/D3-R6	D2-5/D2-6/D3-R6	1266015	210522	610	914	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
D3	D3-R1	1266034	210529	0	107	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	5.3	3.2
D3	D3-R1	1266034	210529	0	107	> CSL/ML, Detect	PCBs (total calc'd)	6.1	1.1
D3	D3-R1	1266034	210529	0	107	> CSL/ML, Detect	Mercury	2.1	1.5
D3	D3-R1	1266034	210529	0	107	> CSL/ML, Non-detect	Hexachlorobenzene	14	2.3
D3	D3-R1	1266034	210529	0	107	> ML, Non-detect	Ethylbenzene	14	2.8
D3	D3-R1	1266034	210529	0	107	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
D3	D3-R1	1266034	210529	0	107	> CSL/ML, Non-detect	1,4-Dichlorobenzene	3.8	1.3
D3	D3-R1	1266034	210529	0	107	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	6.5	2.9
D3	D3-R1	1266034	210529	0	107	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.3	2.3
D3	D3-R1	1266034	210529	0	107	> SQS/SL, <= CSL/ML, Detect	Dibenzo(a,h)anthracene	1.1	0.38
D3	D3-R1	1266034	210529	0	107	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	1.4	0.11
D3	D3-R2	1266034	210529	152	259	> CSL/ML, Detect	Fluoranthene	10	1.4

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
D3	D3-R2	1266034	210529	152	259	> CSL/ML, Detect	Chrysene	7.0	1.7
D3	D3-R2	1266034	210529	152	259	> CSL/ML, Detect	Total LPAH (calc'd)	2.2	1.0
D3	D3-R2	1266034	210529	152	259	> CSL/ML, Detect	Acenaphthene	8.5	2.4
D3	D3-R2	1266034	210529	152	259	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	17	10
D3	D3-R2	1266034	210529	152	259	> CSL/ML, Detect	Naphthalene	2.5	1.4
D3	D3-R2	1266034	210529	152	259	> CSL/ML, Non-detect	Hexachlorobenzene	41	6.8
D3	D3-R2	1266034	210529	152	259	> CSL/ML, Non-detect	Hexachlorobutadiene	2.0	1.3
D3	D3-R2	1266034	210529	152	259	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	1.4	1.4
D3	D3-R2	1266034	210529	152	259	> CSL/ML, Non-detect	Diethyl phthalate	2.8	1.6
D3	D3-R2	1266034	210529	152	259	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
D3	D3-R2	1266034	210529	152	259	> CSL/ML, Non-detect	1,4-Dichlorobenzene	11	3.8
D3	D3-R2	1266034	210529	152	259	> CSL/ML, Non-detect	1,2-Dichlorobenzene	6.8	6.8
D3	D3-R2	1266034	210529	152	259	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	19	8.7
D3	D3-R2	1266034	210529	152	259	> ML, Non-detect	Ethylbenzene	14	2.8
D3	D3-R2	1266034	210529	152	259	> SQS/SL, <= CSL/ML, Detect	Total HPAH (calc'd)	4.4	0.80
D3	D3-R2	1266034	210529	152	259	> SQS/SL, <= CSL/ML, Detect	Pyrene	1.2	0.86
D3	D3-R2	1266034	210529	152	259	> SQS/SL, <= CSL/ML, Detect	Benzofluoranthenes (total-calc'd)	1.6	0.80
D3	D3-R2	1266034	210529	152	259	> SQS/SL, <= CSL/ML, Detect	Benzo(a)pyrene	1.7	0.79
D3	D3-R2	1266034	210529	152	259	> SQS/SL, <= CSL/ML, Detect	Benzo(a)anthracene	1.1	0.43
D3	D3-R2	1266034	210529	152	259	> SQS/SL, <= CSL/ML, Detect	Anthracene	1.9	0.35
D3	D3-R2	1266034	210529	152	259	> SQS/SL, <= CSL/ML, Non-detect	Benzo(g,h,i)perylene	1.1	0.42
D3	D3-R2	1266034	210529	152	259	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	4.1	0.32
D3	D3-R2	1266034	210529	152	259	> SQS/SL, <= CSL/ML, Non-detect	Dibenzo(a,h)anthracene	1.7	0.62
D3	D3-R3	1266034	210529	305	427	> CSL/ML, Detect	Bis(2-ethylhexyl)phthalate	3.5	2.4
D3	D3-R3	1266034	210529	305	427	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
D3	D3-R3	1266034	210529	305	427	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
D3	D3-R3	1266034	210529	305	427	> ML, Non-detect	Ethylbenzene	14	2.8
D3	D3-R3	1266034	210529	305	427	> CSL/ML, Non-detect	Diethyl phthalate	23	15
D3	D3-R3	1266034	210529	305	427	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
D3	D3-R3	1266034	210529	305	427	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
D3	D3-R3	1266034	210529	305	427	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
D3	D3-R3	1266034	210529	305	427	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
D3	D3-R3	1266034	210529	305	427	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
D3	D3-R3	1266034	210529	305	427	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
D3	D3-R3	1266034	210529	305	427	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
D3	D3-R4	1266034	210529	457	549	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
D3	D3-R4	1266034	210529	457	549	> CSL/ML, Non-detect	Diethyl phthalate	23	15

Table D-1. Historical SQS/SL or CSL/ML exceedances, cont.

Sampling Event/ Location ID	Sample	Coordinates (US survey ft)		Sample Interval (depth below mudline, cm)		Description	Analyte	Exceedance Factor[a]	
		X	Y	Upper	Lower			SQS/SL	CSL/ML
D3	D3-R4	1266034	210529	457	549	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
D3	D3-R4	1266034	210529	457	549	> ML, Non-detect	Ethylbenzene	14	2.8
D3	D3-R4	1266034	210529	457	549	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
D3	D3-R4	1266034	210529	457	549	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
D3	D3-R4	1266034	210529	457	549	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
D3	D3-R4	1266034	210529	457	549	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
D3	D3-R4	1266034	210529	457	549	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
D3	D3-R4	1266034	210529	457	549	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
D3	D3-R4	1266034	210529	457	549	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
D3	D3-R5	1266034	210529	610	686	> CSL/ML, Non-detect	2,4-Dimethylphenol	4.8	4.8
D3	D3-R5	1266034	210529	610	686	> CSL/ML, Non-detect	N-Nitrosodiphenylamine	3.6	2.5
D3	D3-R5	1266034	210529	610	686	> CSL/ML, Non-detect	1,2,4-Trichlorobenzene	3.2	2.0
D3	D3-R5	1266034	210529	610	686	> CSL/ML, Non-detect	1,2-Dichlorobenzene	2.9	2.0
D3	D3-R5	1266034	210529	610	686	> CSL/ML, Non-detect	Diethyl phthalate	23	15
D3	D3-R5	1266034	210529	610	686	> CSL/ML, Non-detect	Hexachlorobenzene	4.5	1.4
D3	D3-R5	1266034	210529	610	686	> ML, Non-detect	Ethylbenzene	14	2.8
D3	D3-R5	1266034	210529	610	686	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobutadiene	4.5	0.42
D3	D3-R5	1266034	210529	610	686	> SQS/SL, <= CSL/ML, Non-detect	Dimethyl phthalate	1.1	0.50
D3	D3-R5	1266034	210529	610	686	> SQS/SL, <= CSL/ML, Non-detect	1,4-Dichlorobenzene	2.0	nv
D3	D3-R5	1266034	210529	610	686	> SQS/SL, <= CSL/ML, Non-detect	Butyl benzyl phthalate	2.1	0.28
Turning-basin									
DTB-04SD	DTB-04SD	1277106	190448	0	396	> SQS/SL, <= CSL/ML, Non-detect	Hexachlorobenzene	1.1	0.19

[a] The exceedance factor is calculated by dividing the measured concentration by the SQS or CSL (or by the SL or ML, when the SQS or CSL are not available). Note that this ratio has no regulatory relevance, and is presented here to indicate the general magnitude of the concentration.

CSL – cleanup screening level of the Washington State Sediment Management Standards

ML – maximum level of the Dredged Material Management Program

nv – no value

SL – screening level of the Dredged Material Management Program

SQS – sediment quality standard of the Washington State Sediment Management Standards

0.0
T103
(2005)
0.1
D1 D2 D3
T-105
0.2
C1 C2 C3
B1 B2 B3
A1 A2 A3
0.3
DR068
DUD250
0.4
DUD251
DUD252
DUD253
DUD254
DUD020
DUD006
DR008
DUD255
DUD256
Duwamish/
Diagonal
(2003/2004)
0.5
DUD257
DUD258
DUD260
DUD206
DUD027
DUD262
DUD261
0.6
DR044
0.7
0.8
Kellogg
Island
0.9
DR021
Slip 1
1.0
C2
C3
A1
Lehigh NW
(2004)
1.1
1.2
DR025

Phase 1 (historical) subsurface sampling locations by event code with location ID*

- Duw/Diag-1
- Duw/Diag-2
- EPA SI
- Lehigh NW
- T-105
- Dredged area
- Dredged and capped area
- Thin-layer placement
- Bridge
- Building
- Dock
- Marina
- Pier
- Intertidal
- Navigation channel
- River mile

* Phase 1 (historical) subsurface locations shown include sampled as well as centroid locations. Centroid locations represent the averaged coordinates of sampled locations for composite samples.

Figure D-1a. Phase 1 (historical) subsurface sediment sampling locations (RM 0.0-1.2)

0 0.2 Miles

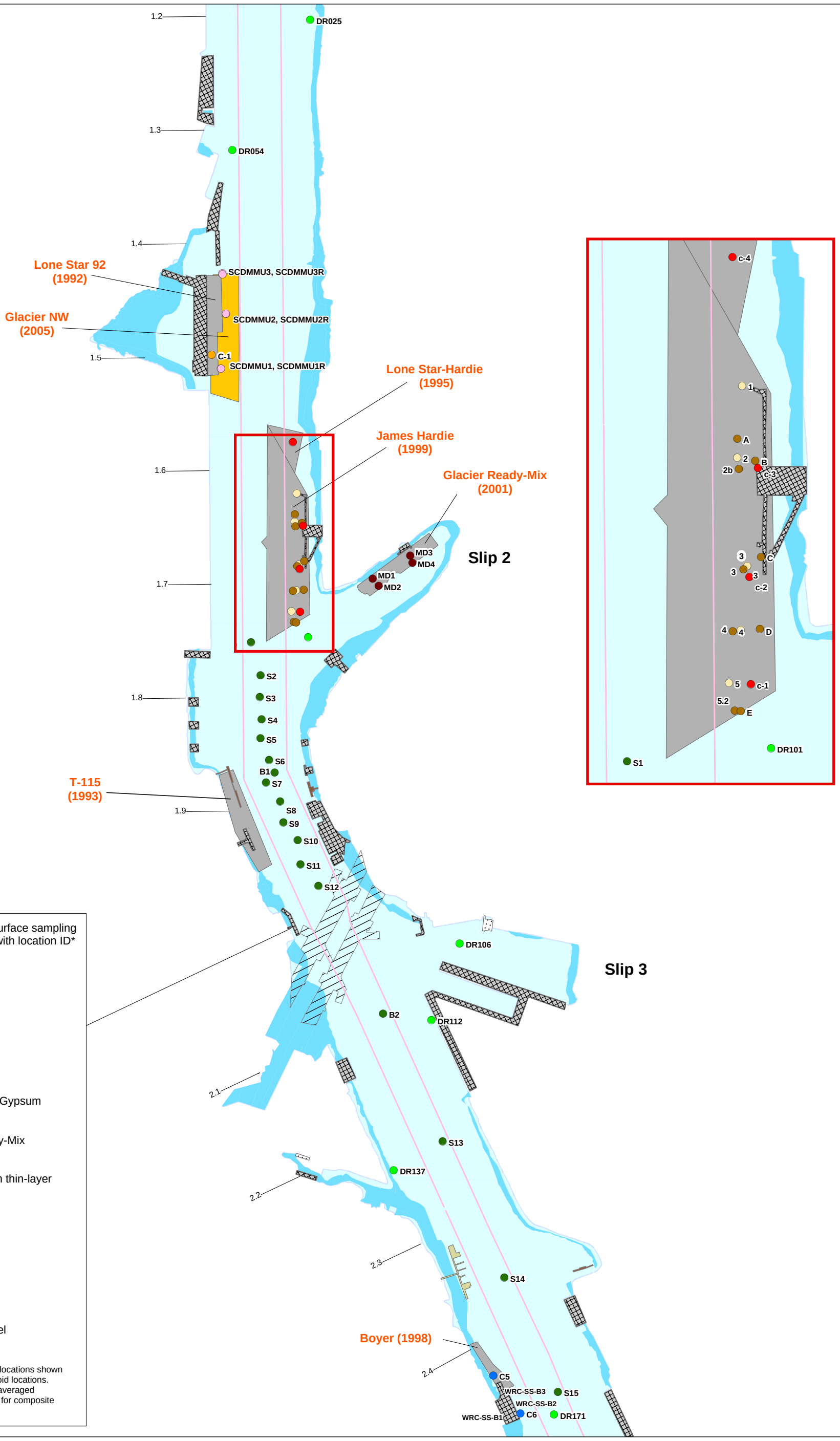
0 0.2 Kilometers

N

Wind Ward environmental LLC

Prepared by STS 02/03/06 Map 2001

W:\Projects\00-08-06_Duwamish_RI\data\gis\Subsurface



Phase 1 (historical) subsurface sampling locations by event code with location ID*

- Boyer Towing
- EPA SI
- Glacier NW
- Hardie Gypsum-1
- Hardie Gypsum-2
- Hurlen-Boyer
- Lone Star 92
- Lone Star-Hardie Gypsum
- PSDDA99
- Glacier NW Ready-Mix
- Dredged area
- Dredged area with thin-layer placement
- Bridge
- Building
- Dock
- Marina
- Pier
- Intertidal
- Navigation channel
- River mile

* Phase 1 (historical) subsurface locations shown include sampled as well as centroid locations. Centroid locations represent the averaged coordinates of sampled locations for composite samples.

Figure D-1b. Phase 1 (historical) subsurface sediment sampling locations (RM 1.2-2.4)

0 0.2 Miles

0 0.2 Kilometers

N

Wind Ward environmental LLC

Prepared by STS 02/03/06 Map 2001

W:\Projects\00-08-06_Duwamish_RI\data\gis\Subsurface

Phase 1 (historical) subsurface sample locations by event code with location ID*

- BoyerTowing
- DSOAvertchar
- DSOAvertchar2
- DSOAvertchar3
- EPA SI
- Hurlen-Boyer
- JorgensenApril2004
- JorgensenAugust2004
- PSDDA98
- PSDDA99
- Plant 2 RFI-1
- Plant 2 RFI-2b
- Plant 2-TransformerPhase
- Slip4-Crowley
- Slip4-EarlyAction
- SouthParkMarina
- T117BoundaryDefinition
- SouthParkBridge
- Dredged area
- Proposed removal area
- Bridge
- Building
- Dock
- Marina
- Pier
- Intertidal
- Navigation channel
- River mile

* Phase 1 (historical) subsurface locations shown include sampled as well as centroid locations. Centroid locations represent the averaged coordinates of sampled locations for composite samples.

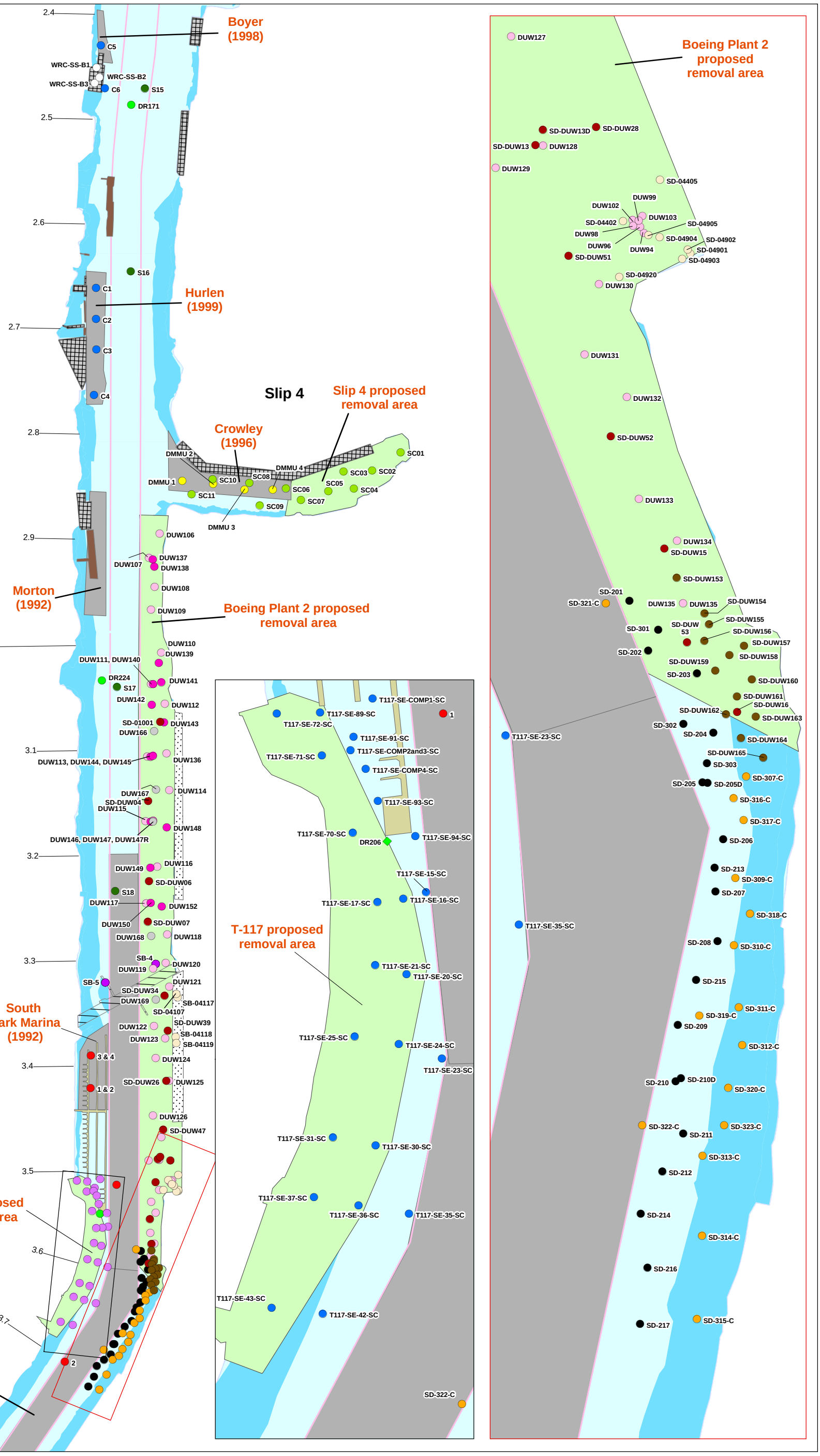


Figure D-1c. Phase 1 (historical) subsurface sediment sampling locations (RM 2.4-3.8)

0 0.2 Miles

0 0.2 Kilometers

Wind Ward environmental LLC

Prepared by STS 02/03/06 Map 2001

W:\Projects\00-08-06_Duwamish_RI\data\gis\Subsurface

DR220
3.8
3
3.9
USACE
(1986-2004)
4
SB-13
SH-01
SH-02
SH-03
4.0
C1
5
SH-04
SB-12
Duwamish
Yacht Club
(1999)
C2
C3
C4
4.1
SB-17
SB-4
SB-1
SH-06
SH-07
SB-5
SB-6
C5
DR284
SB-11
SH-09
SH-08
SB-7
C6
SB-8
SB-2
6
DR246
Delta Marine
(2002)
4.2
6
7
5
4
4.3
DTB-01SD
4.4
Average Of 8-9
DTB-02SD
4.5
C1
DTB-03SD
DTB-04SD
Average Of 10-12
DTB-05SD
4.6
DR269
Upper
Turning
Basin
4.7
4.8
4.9
5.0
Sediment removal near Boeing
south storm drain outfall
(2003)
Norfolk CSO
(1999)
NFK008
NFK009
NFK207
Slip 6

Phase 1 (historical) subsurface sampling locations by event code with location ID*

- DuwamYachtClub
- EPA SI
- Norfolk-cleanup1
- Norfolk-cleanup2
- PSDDA96
- PSDDA98
- RhonePoulenc2004
- Turning-basin
- Dredged area
- Dredged and capped area
- Bridge
- Building
- Dock
- Marina
- Pier
- Intertidal
- Navigation channel
- River mile

* Phase 1 (historical) subsurface locations shown include sampled as well as centroid locations. Centroid locations represent the averaged coordinates of sampled locations for composite samples.

Figure D-1d. Phase 1 (historical) subsurface sediment sampling locations (RM 3.8-5.0)

0 0.2 Miles

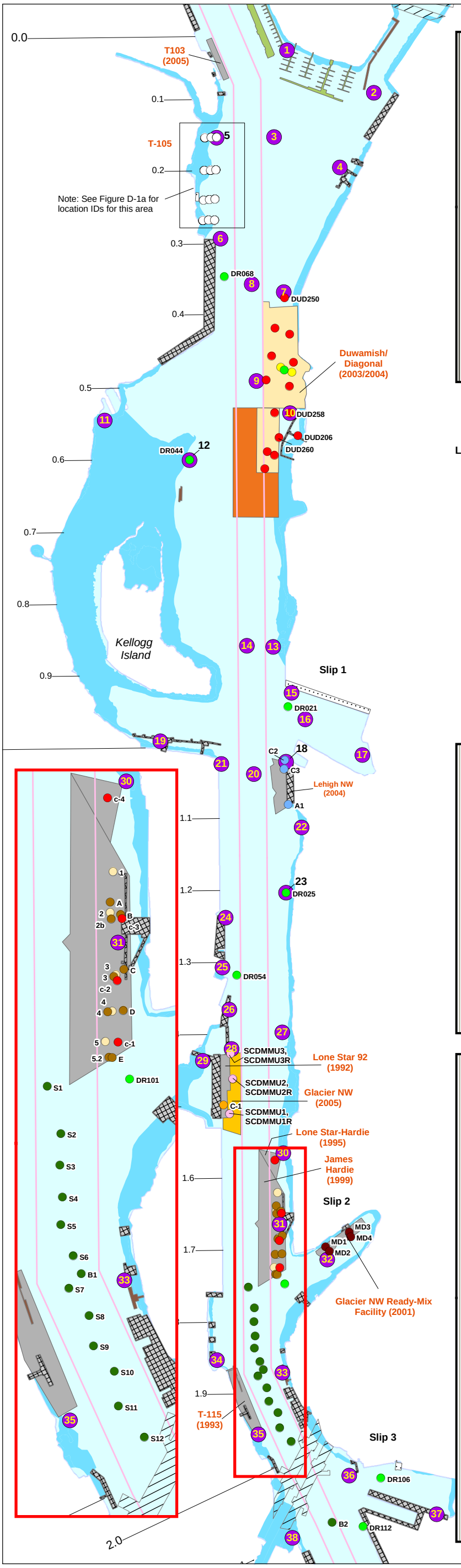
0 0.2 Kilometers

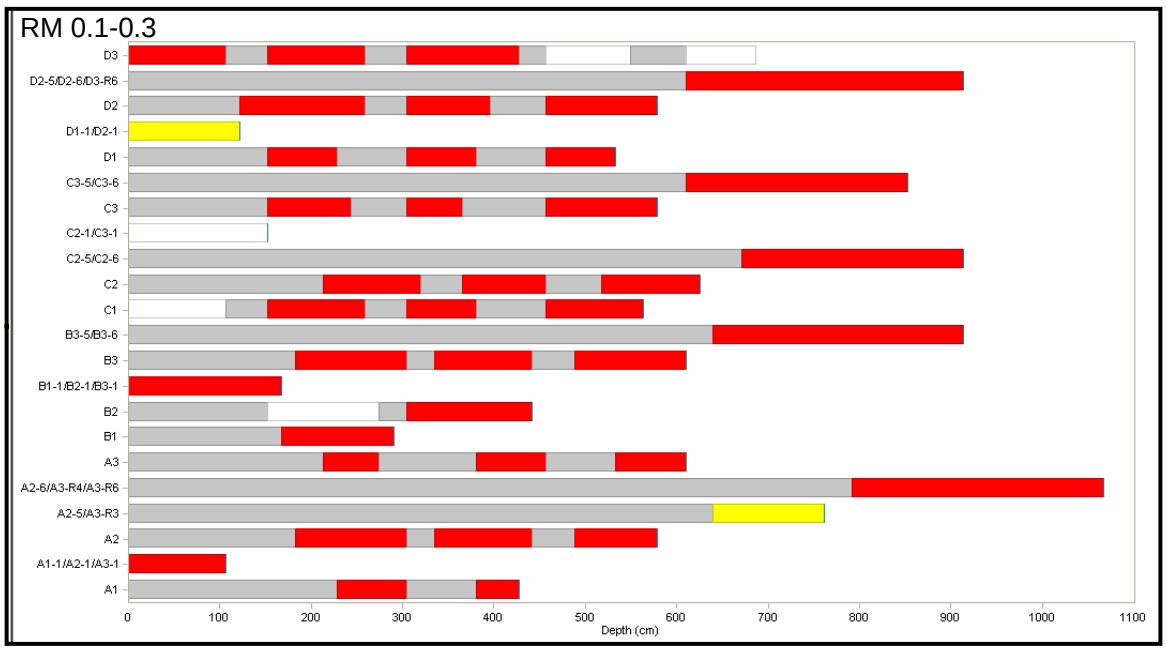
N

Wind Ward environmental LLC

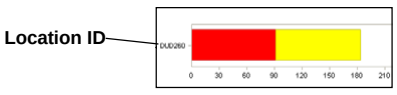
Prepared by STS 02/03/06 Map 2001

W:\Projects\00-08-06_Duwamish_RI\data\gis\Subsurface





BAR CHART LEGEND



SQS/CSL categories for any chemicals in Phase 1 (historical) subsurface sediment samples

- No data
- ≤ SQS/SL, detected
- > SQS/SL and ≤ CSL/ML, detected
- > CSL/ML, detected

Locations shown include sampled as well as centroid locations. Centroid locations represent the averaged coordinates of sampled locations for composite samples.

SCDMMU1R was analyzed for sulfides only and SCDMMU3R was analyzed for TBT only. Results for these samples are not shown on this figure because there are no SQS/SL or CSL/ML for sulfides or TBT.

Results for Glacier NW Ready-Mix are not shown on this figure because data were recently obtained and have not yet been included in the project database.

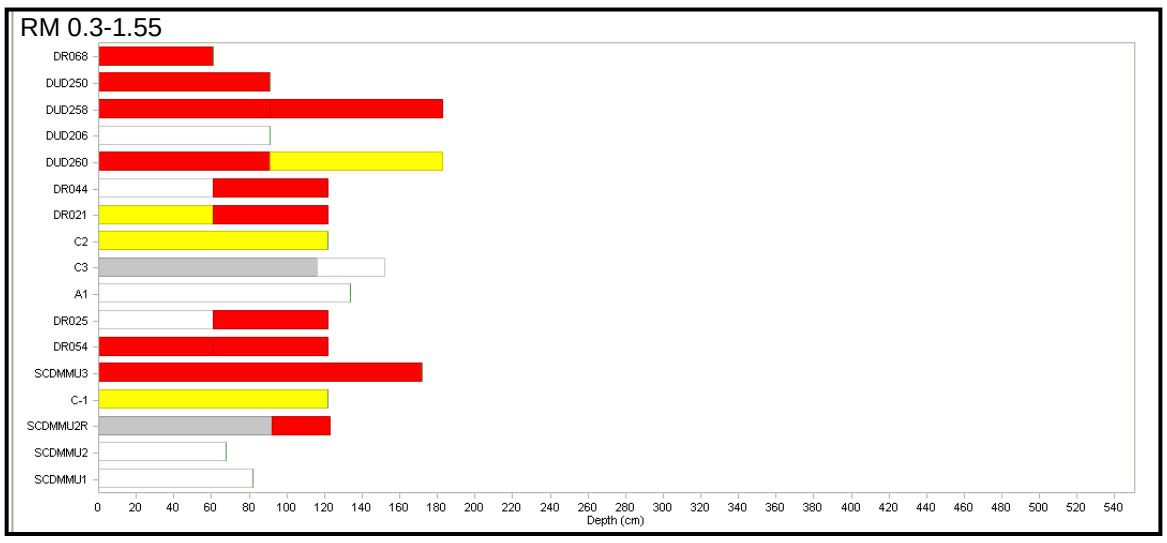
MAP LEGEND

Phase 1 (historical) subsurface sediment sample locations by event code with location ID

- Duw/Diag-1
- Duw/Diag-2
- EPA SI
- Glacier NW
- Hardie Gypsum-1
- Hardie Gypsum-2
- Lehigh NW
- Lone Star 92
- Lone Star-Hardie Gypsum
- PSDDA99
- Glacier NW Ready-Mix
- T-105

Phase 2 subsurface sediment sampling location with location ID

- Dredged area
- Dredged and capped area
- Dredged and thin-layer placement
- Thin-layer placement
- Bridge
- Building
- Dock
- Marina
- Pier
- Intertidal
- Navigation channel
- River mile



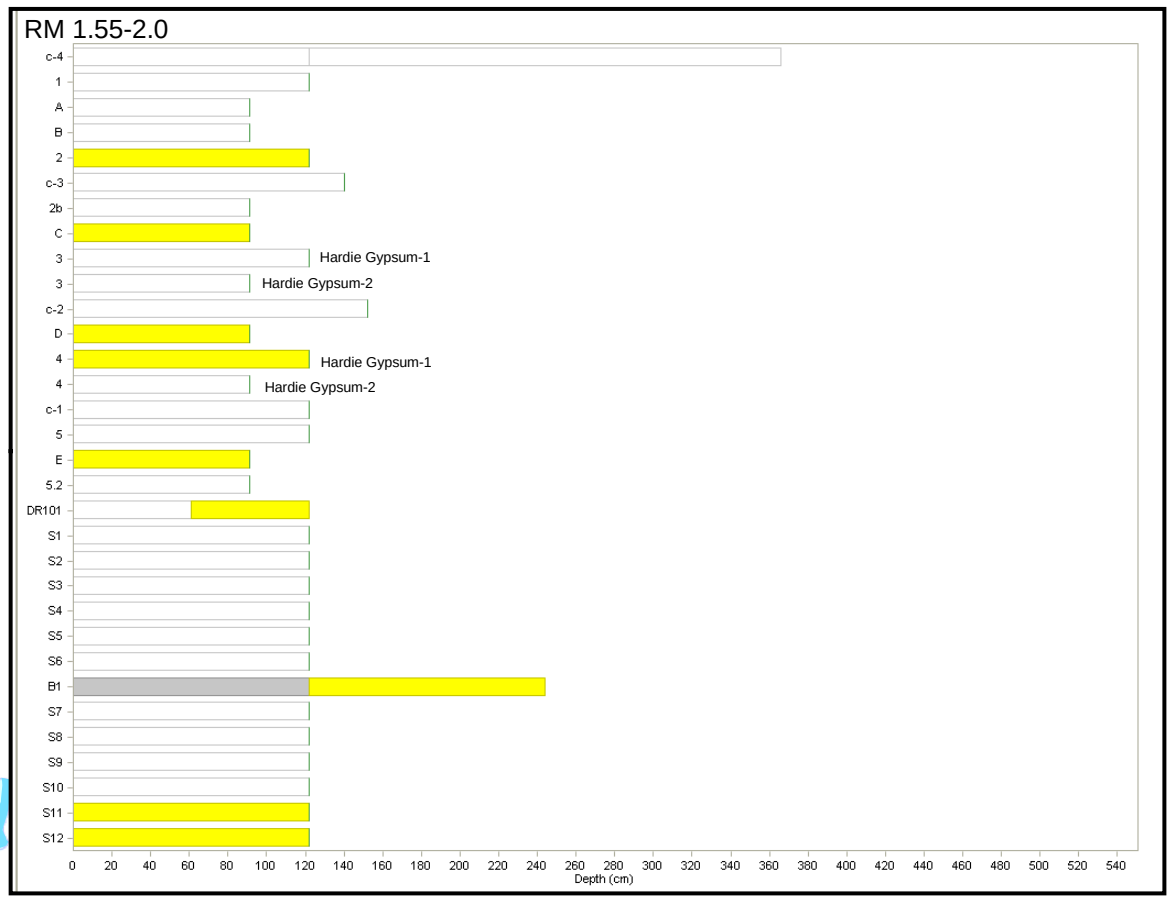


Figure D-2a. Exceedance of SQS/SL or CSL/ML by any detected chemicals in Phase 1 (historical) subsurface sediment samples (RM 0.0-2.0)

Results and location IDs for subsurface samples collected in the Duwamish/Diagonal early action area are not shown on this map

0 0.2 Miles

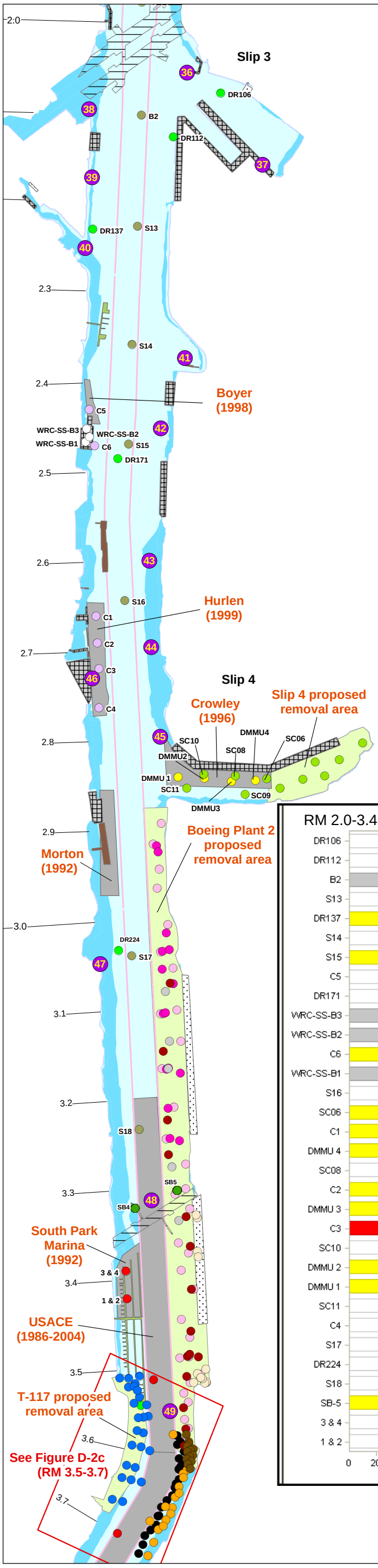
0 0.2 Kilometers

N

Wind Ward environmental LLC

Prepared by STS 02/03/06 Map 2103

W:\Projects\00-08-06_Duwamish_RI\data\gis\Subsurface\Bar Charts



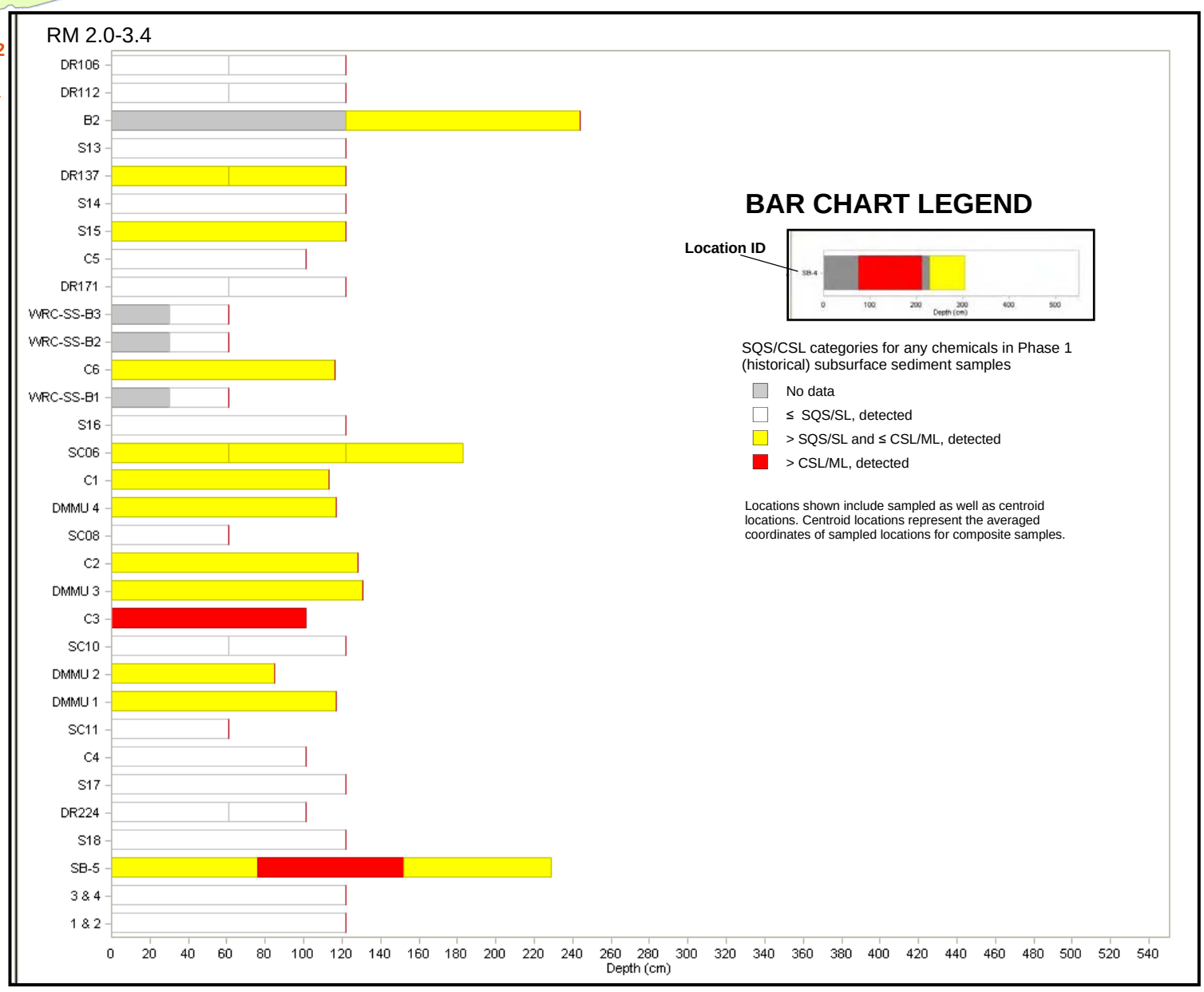
MAP LEGEND

Phase 1 (historical) subsurface sediment sampling locations by event code with location ID

- BoyerTowing
- DSOAvertchar
- DSOAvertchar2
- DSOAvertchar3
- EPA SI
- Hurlen-Boyer
- JorgensenApril2004
- JorgensenAugust2004
- PSDDA98
- PSDDA99
- Plant 2 RFI-1
- Plant 2 RFI-2b
- Plant 2-TransformerPhase
- Slip4-Crowley
- Slip4-EarlyAction
- SouthParkMarina
- T117BoundaryDefinition
- SouthParkBridge

Phase 2 subsurface sediment sampling location with location ID

- Dredged area
- Proposed removal area
- Bridge
- Building
- Dock
- Marina
- Pier
- Intertidal
- Navigation channel
- River mile



BAR CHART LEGEND

Location ID

SQS/CSL categories for any chemicals in Phase 1 (historical) subsurface sediment samples

- No data
- ≤ SQS/SL, detected
- > SQS/SL and ≤ CSL/ML, detected
- > CSL/ML, detected

Locations shown include sampled as well as centroid locations. Centroid locations represent the averaged coordinates of sampled locations for composite samples.

Figure D-2b. Exceedance of SQS/SL or CSL/ML by any detected chemicals in Phase 1 (historical) subsurface sediment locations (RM 2.0-3.7)

Results and location IDs for subsurface samples collected at Slip 4, Boeing Plant 2, and T-117 proposed removal areas are not shown on this map

0 0.2 Miles

0 0.2 Kilometers

Wind Ward environmental LLC

Prepared by STS 02/03/06 Map 2103

W:\Projects\00-08-06_Duwamish_RI\data\gis\Subsurface\Bar Charts

Boeing Plant 2 proposed removal area

USACE (1986-2004)

T-117 proposed removal area

3.5

3.7

1

2

49

50

T117-SE-COMP1-SC
T117-SE-91-SC
T117-SE-COMP2and3-SC
T117-SE-COMP4-SC
T117-SE-93-SC
T117-SE-94-SC
T117-SE-15-SC
T117-SE-23-SC
T117-SE-35-SC
T117-SE-42-SC

SD-321-C
SD-DUW162
SD-302
SD-204
SD-DUW164
SD-DUW165
SD-303
SD-307-C
SD-205
SD-205D
SD-316-C
SD-317-C
SD-206
SD-213
SD-309-C
SD-207
SD-318-C
SD-208
SD-310-C
SD-215
SD-311-C
SD-319-C
SD-209
SD-312-C
SD-210
SD-210D
SD-320-C
SD-323-C
SD-322-C
SD-211
SD-313-C
SD-212
SD-214
SD-314-C
SD-216
SD-315-C
SD-217

MAP LEGEND

- Phase 2 subsurface sediment sampling location with location ID
- Phase 1 (historical) subsurface sediment sampling locations by event code with location ID
  - DSOAvertchar
  - EPA SI
  - JorgensenApril2004
  - JorgensenAugust2004
  - PSDDA98
  - Plant 2 RFI-2b
  - Plant 2-TransformerPhase
  - T117BoundaryDefinition
- Dredged area
- Proposed removal area
- Bridge
- Building
- Dock
- Marina
- Pier
- Intertidal
- Navigation channel
- River mile

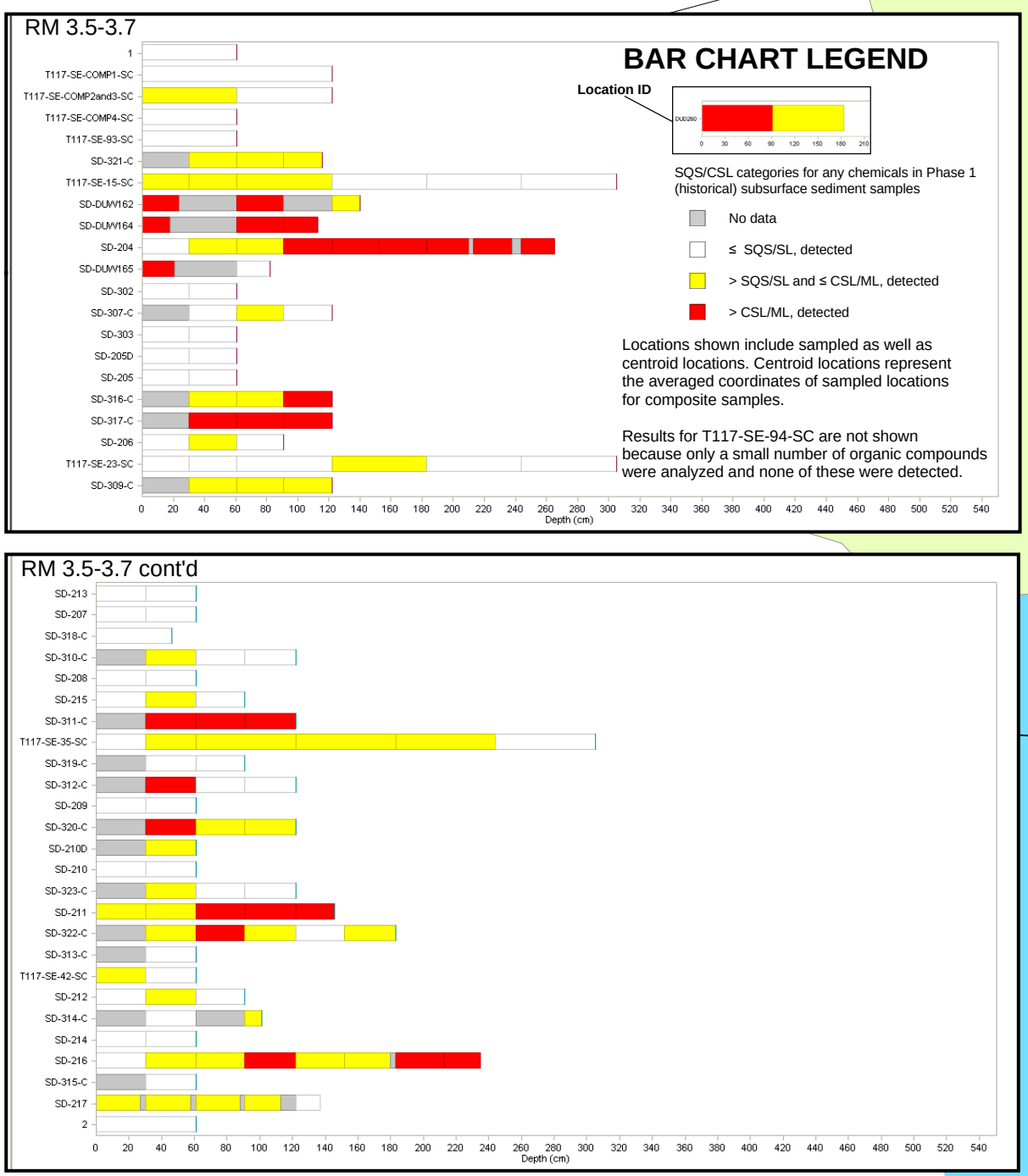


Figure D-2c. Exceedance of SQS/SL or CSL/ML by any detected chemicals in Phase 1 (historical) subsurface sediment samples (RM 3.5-3.7)

Results and location IDs for subsurface samples collected at Boeing Plant 2 and T-117 proposed removal areas are not shown on this map

0 200 Feet

0 50 Meters

N

Wind Ward environmental LLC

Prepared by STS 02/03/06 Map 2103

W:\Projects\00-08-06_Duwamish_RI\data\gis\Subsurface\Bar Charts

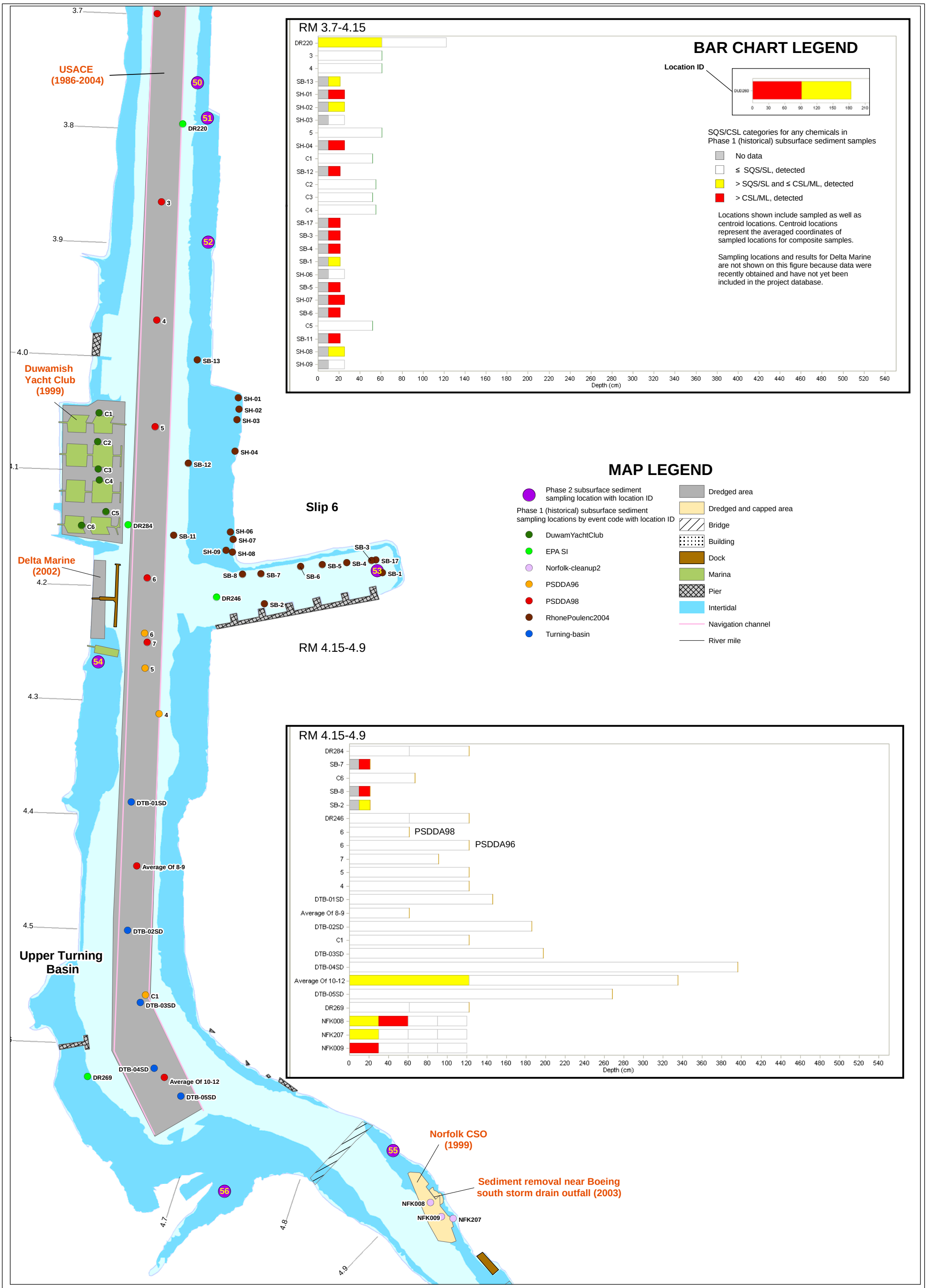


Figure D-2d. Exceedance of SQS/SL or CSL/ML by any detected chemicals in Phase 1 (historical) subsurface sediment samples (RM 3.7-4.9)

Wind Ward environmental LLC

Prepared by STS 02/03/06 Map 2103

W:\Projects\00-08-06_Duwamish_RI\data\gis\Subsurface\Bar Charts