LDWSF
12.3.129.1v2
11/01/09

ATTACHMENT 16

American Civil Constructors West Coast, Inc.
Response to Supplemental 104(e) Request (January 29, 2010)
Lower Duwamish Waterway Superfund Site

USEPA SF
1316933

American Civil Constructors

Hurlen Construction

POLLUTION PREVENTION AND BEST MANAGEMENT PRACTICES PLAN

AMERICAN CIVIL CONSTRUCTORS WEST COAST, INC

620 SOUTH RIVERSIDE DRIVE
700 SOUTH RIVERSIDE DRIVE

SEATTLE, WASHINGTON 98108

PREPARED BY:
SLR INTERNATIONAL CORP
1800 BLANKENSHIP ROAD, SUITE 440
WEST LINN, OREGON 97068
(503) 723-4423

DATE: NOVEMBER 2009

TABLE OF CONTENTS

1. INTRODUCTION 1
1.1 MANAGEMENT APPROVAL 1
1.2 FACILITY DESCRIPTION 1

2. HAZARDOUS MATERIALS AND COMPLIANCE AUDITS 3
2.1 QUARTERLY COMPLIANCE AUDITS 3

3. BEST MANAGEMENT PRACTICES 4
3.1 GOOD HOUSEKEEPING MEASURES 4
3.2 PREVENTATIVE MAINTENANCE 4
3.3 SPILL PREVENTION AND EMERGENCY CLEANUP 5
3.4 INSPECTIONS AND TRAINING 5
3.5 AREA-SPECIFIC BEST MANAGEMENT PRACTICES 5
3.5.1 DUST CONTROL 5
3.5.2 ON-LAND FUELING ACTIVITIES 5
3.5.3 OVER-WATER FUELING ACTIVITIES 6
3.5.4 LOADING AND UNLOADING AREAS FOR LIQUIDS 6
3.5.5 YARD MAINTENANCE 6
3.5.6 MAINTENANCE AND REPAIR OF EQUIPMENT 7
3.5.7 STORAGE OF LIQUID AND DANGEROUS WASTE CONTAINERS 7

4. STORMWATER DRAINAGE 8

5. SPILL PREVENTION, CONTROL AND COUNTERMEASURE PLAN 9

LIST OF APPENDICES

APPENDIX A	SITE PLAN
APPENDIX B	QUARTERLY COMPLIANCE AUDIT CHECKLIST

1. INTRODUCTION

This Pollution Prevention and Best Management Practices Plan (plan) has been prepared for American Civil Constructors West Coast, Inc (ACC) in accordance with the January 16, 2000 Lease Agreement (Second Amendment) between Harald L. Hurlen (Lessor) and Hurlen Construction (Lessee). On June 7, 2002, the Lease Agreement (Third Amendment) was transferred to American Civil Constructors West Coast, LLC. The Lease Agreement and this plan cover ACC operations located at 620 and 700 South Riverside Drive in Seattle, Washington. Specifically this plan incorporates Quarterly Compliance Audits, Best Management Practices and Pollution Prevention Measures, Stormwater Drainage, and a Spill Control and Countermeasures Plan.

1.1 MANAGEMENT APPROVAL

"I hereby certify that this Pollution Prevention and Stormwater Best Management Practices Plan has the full approval of ACC management and that I have the management authority to commit the necessary resources to meet the requirements of this plan including spill prevention and response."

Printed Name of Official: _____

Title of Official: _____

Signature of Official: _____

Date: _____

1.2 FACILITY DESCRIPTION

ACC's primary business is providing specialized marine and upland foundation work at offsite locations. ACC has operations at 620 and 700 South Riverside Drive in Seattle, Washington which are located on the banks of the Duwamish River. The 620 South Riverside Drive property does not have any structures or oil storage onsite. This property is used solely for the storage of construction and equipment necessary to accomplish construction projects occurring elsewhere. The moorage facilities at this property are used for the moorage of barges, but are not used for the transshipment of construction materials and equipment.

The 700 South Riverside Drive property serves as ACC's headquarters for managing and supporting marine construction projects accomplished at other locations throughout the Northwest and Alaska. This property is also used for storage and transshipment of construction materials and equipment necessary to accomplish construction projects occurring elsewhere. The shoreline and moorage facilities at the 700 South Riverside Drive property are used for the moorage of barges and the storage and transshipment (via the Duwamish River) of construction materials and equipment necessary to accomplish construction projects occurring elsewhere. This property is also used for the storage and

very limited maintenance and repair of equipment. All vehicles, barges and equipment are generally maintained and repaired offsite.

A Site Plan has been included as Figure 1 of the 700 South Riverside Drive (as included in ACC's Spill Prevention, Control and Countermeasure Plan). This property includes an office, garage, and annex. The annex includes the oil storage room, fueling area, and hazardous waste storage area while the garage is used for flammable liquid storage. The remaining portions of the Site are primarily unpaved and are used for equipment/material storage (referred to as the storage yard).

2. HAZARDOUS MATERIALS AND COMPLIANCE AUDITS

In the course of the transshipping and moving of construction materials, and the use of onsite equipment, ACC uses and stores various hazardous materials at the 700 South Riverside Drive property including:

- Fuels (diesel and gasoline)
- Lubricating oils and greases
- Hydraulic and transmission fluids
- Antifreeze
- Aerosol cans (spray paints, cleaners)
- Cleaning solvents and paints

Floating cranes and barges moored onsite are loaded with fuels by a qualified contractor via a tanker truck parked at the dock. Such fuels are not stored onsite.

The above materials are handled carefully with all resulting wastes being containerized for proper offsite recycling and/or disposal. The tanks, drums, and buckets used to store the majority of these materials are typically located in the fully covered and contained oil storage room. A Site Plan (Figure 1) has been included in Appendix A to illustrate the material storage locations. Please see the Best Management Practices included in Section 3.0 of this plan for the methods used by ACC to prevent any release of these hazardous materials.

In addition, construction and demolition debris generated during construction projects occurring at other locations is occasionally delivered to the 700 South Riverside Drive property. The debris is temporarily transferred to the property by barge for transshipment through the 700 South Riverside Drive property for recycling and disposal elsewhere. Such construction and demolition debris includes, but is not limited to, scrap metal, timber pilings, lumber, concrete, and concrete floats with plastic and/or foam inserts. Such materials are delivered to the property by barge generally in containers unless it is more practical to handle the materials individually (e.g. timber pilings). Such containers and materials are carefully offloaded from the barges and transferred to trucks for transportation offsite in compliance with state and federal regulations. Construction and demolition debris is rarely stored at the 700 South Riverside Drive property and then occurs temporarily for a short period of time.

Hazardous materials such as fuels, oils, and construction and demolition debris are not stored or transshipped through the 620 South Riverside Drive property.

2.1 QUARTERLY COMPLIANCE AUDITS

In accordance with Paragraph 27(a) of the January 16, 2000 Lease Agreement (Second Amendment), ACC has implemented quarterly Compliance Audits to monitor use and handling of hazardous materials and prevent release of such materials. A copy of the audit checklist is included as Appendix B. The completed audit checklists are maintained with this plan onsite with a copy provided to the Lessor.

3. BEST MANAGEMENT PRACTICES

The following Best Management Practices have been implemented by ACC to prevent any releases of hazardous materials.

3.1 GOOD HOUSEKEEPING MEASURES

Good housekeeping measures are employed by ACC to minimize the potential for releases of pollutants to stormwater and/or surface water and to maintain a clean and orderly site. In addition, ACC has adopted procedures that minimize the handling of materials and equipment in areas where stormwater is likely to be impacted. The good housekeeping measures employed by ACC include the following.

- ACC employees have been trained to promptly contain and clean up any solid and liquid leaks and spills of any materials including oils, solvents, and fuels on any exposed soil, vegetation, or paved area.
- Employees are responsible for maintaining clean work areas, identifying potential problems, and taking immediate corrective action to maintain a clean and safe working environment.
- Paved areas are swept regularly for the collection and disposal of dust and debris.
- ACC does not hose down pollutants from any area to the ground, storm drain, conveyance ditch, or surface water unless necessary for dust control purposes.
- ACC promptly repairs or replaces substantially cracked or otherwise damaged paved secondary containment structures, high-intensity parking and any other drainage areas, which are subjected to pollutant material leaks or spills.
- If needed ACC will promptly repair or replace any leaking connections, pipes, hoses, valves, etc.
- Hazardous materials and oil products are properly labeled, stored in tanks or containers in good condition, and are typically stored in covered and contained areas.
- Trucks and forklifts are properly maintained offsite to reduce pollutant exposure.

3.2 PREVENTATIVE MAINTENANCE

The preventive maintenance program at ACC includes regular inspections and maintenance of outdoor storage areas. Items that are not in good condition are cleaned, repaired or replaced, as needed. The preventative maintenance program includes the following items.

- The site does not discharge unpermitted wastes, process wastewater, or sewage to ground or surface water or to storm drains.
- The site does not have any floor drains in potential pollutant source areas to storm drains, surface water, or to the ground.
- Parts cleaning, steam cleaning, or pressure washing of equipment does not occur at the site.
- Secondary containment structures have been constructed of steel, Portland cement concrete, asphalt, or equivalent material.
- If needed ACC will use drip pans, when appropriate, to collect leaks and spills from equipment which are stored outside.

- Used fuel filters and oily rags and absorbent materials are disposed of in closed and labeled containers until shipment offsite.
- Tanks and drums are typically stored within the covered and contained oil storage room.
- Bulk storage containers are constructed of materials that are compatible with the materials stored in the container, under the temperatures and pressures encountered under normal operating conditions.
- Liquid and solid wastes generated are properly disposed of according to state and federal regulations. ACC has a dedicated hazardous waste storage area located adjacent to the oil storage room for the storage of hazardous wastes prior to shipment offsite.
- Flammable materials (aerosol cans, solvents, and gasoline cans) are stored in flammable storage cabinets in the garage (see Figure 1 for locations). ACC has obtained a permit from the Seattle Fire Department to store combustible and flammable liquids onsite.
- Dumpsters and recycling bins are durable, corrosion resistant, non-absorbent, non-leaking, and equipped with either a solid cover or screen cover to prevent littering (when applicable). The scrap metal is picked up on an as needed basis while the regular garbage dumpster is emptied weekly.

3.3 Spill Prevention and Emergency Cleanup

Development and implementation of spill prevention and response procedures is in an important element of pollution prevention. See ACC's Spill Prevention, Control and Countermeasure (SPCC) Plan for spill prevention and emergency cleanup measures employed at the site.

3.4 Inspections and Training

Inspections of the property are completed quarterly during the compliance audits (see Section 2.1) and oil storage locations are inspected monthly as a part of the SPCC Plan. In addition, employees are trained on spill prevention, response and notification procedures as a part of the SPCC Plan.

3.5 Area-Specific Best Management Practices

The following area-specific Best Management Practices have been implemented by ACC.

3.5.1 Dust Control

ACC regularly sweeps paved areas of the site. When possible, the sweeping is conducted by a vacuum filter equipment or mechanical sweeper to minimize dust generation and to ensure optimal dust removal. In addition, during the summer months, ACC will spray the unpaved yard periodically with potable water to control dust. Occasionally, ACC will regrade and/or replace the unpaved yard to provide a better subsurface and working surface.

3.5.2 On-Land Fueling Activities

The following general Best Management Practices have been implemented by ACC for on-land fueling activities. See ACC's SPCC Plan for more-detailed fueling Best Management Practices.

- The on-land fueling area is located adjacent to the oil storage room and is paved and covered.

- The dispensing nozzle connected to the diesel tank has been designed to fail closed. When not in use, the nozzle is placed in a secure holder.
- The dispensing nozzle connected to the diesel tank is fitted with a self closing "break-away" device to prevent spillage if the break-away connection is broken.
- Spill clean-up and response materials are maintained in the oil storage room and on each floating crane and barge.
- The portable diesel tanks (for use at offsite locations) are equipped with overfill containment structures. When maintained onsite, the portable tanks are typically stored within the covered fueling area.
- Fueling activities are continually monitored by ACC employees to prevent an overfill or spill.

3.5.3 Over-Water Fueling Activities

Fueling activities for the floating cranes and barges are performed by a qualified contractor via a tanker truck parked at the dock. Fuel for the floating cranes and barges is not stored onsite. The fueling contractor provides the required agency notification and provides any additional spill response materials and equipment. Fueling activities are continually monitored by ACC and the contractor. ACC and the contractor have been issued permits from the Seattle Fire Department to perform this fueling activity.

3.5.4 Loading and Unloading Areas for Liquids

The following general bulk transfer Best Management Practices have been implemented by ACC. See ACC's SPCC Plan for more-detailed Best Management Practices.

- Tank volumes are measured and valve configurations are checked prior to filling to ensure that deliveries do not result in filling to greater than 95% of the tank capacity.
- If needed, drip pans will be used when making and breaking connections.
- If the tanker truck hose connection is not contained, absorbent drip pads or pans will be placed beneath the hose connection point with the truck.
- Transfer equipment such as valves, pumps, flanges, and connections are checked regularly for leaks and will be repaired if needed.
- Loading and off-loading activities are monitored by an ACC employee and/or the tanker truck driver at all times during transfer to prevent an overfill or spill.

3.5.5 Yard Maintenance

The unpaved storage yard is graded periodically and after large jobs that affect yard conditions. Occasionally ACC will regrade and/or replace the unpaved yard to provide a better subsurface and working surface. The yard slopes towards the street and runoff is not expected to discharge directly to the Duwamish River. ACC conducts undocumented daily inspections of the yard to determine if there is a potential for spills or if cleaning and maintenance is needed. In addition, during the quarterly audits, ACC personnel will inspect for specific signs of erosion in the yard. If significant signs of erosion are observed, the area of erosion will be evaluated and methods will be implemented to address the erosion problem.

3.5.6 MAINTENANCE AND REPAIR OF EQUIPMENT

ACC has implemented the following methods for equipment maintenance and repair.

- ACC employees regularly inspect equipment stored outside seeking to detect and prevent any leaks or spills.
- If needed drip pans or other containment will be placed under parts or vehicles that are stored outside that are likely to drip.
- Used batteries are stored in a covered and contained area until disposal offsite.
- Waste materials (used oil, fuel filters, waste coolant, etc...) are properly disposed of according to state and federal regulations. ACC has a dedicated hazardous waste storage area located adjacent to the oil storage room for the storage of these wastes until shipment offsite.
- Flammable materials (aerosol cans, solvents, and gasoline cans) are stored in flammable storage cabinets located in the garage (see Figure 1 for locations). ACC has obtained a permit from the Seattle Fire Department to store combustible and flammable liquids onsite.
- No wash water, liquid waste, or other pollutants are poured or conveyed to surface water.
- Equipment maintenance is generally performed offsite. Occasionally outside maintenance of equipment occurs under cover (when applicable). Drip pans and absorbent material will be placed beneath the equipment when activities occur outside.

3.5.7 STORAGE OF LIQUID AND DANGEROUS WASTE CONTAINERS

Drums, tanks, and buckets are typically stored within the covered and contained oil storage room. All containers are equipped with tight-fitting lids. If any liquids accumulate within the containment structure of the oil storage room, a pump or vacuum truck will be used to collect the material and the material will be shipped offsite for disposal according to state and federal regulations. There is no discharge outlet from this containment structure.

Drums stored outside the contained oil storage room will be placed on spill containment pallets under the cover of the fueling area. The portable diesel tanks (for use at offsite locations) are equipped with overfill containment structures. When located onsite, the portable tanks are typically stored within the covered fueling area. Oil-containing containers (including tanks and drums) are inspected monthly as a requirement of the SPCC Plan.

Dangerous and hazardous wastes are stored under the cover of the hazardous waste storage area (located adjacent to the oil storage room) or within the oil storage room until shipment offsite. If drums are used to store hazardous materials outside the oil storage room, the drums will be placed on spill containment pallets. Dangerous and hazardous wastes are labeled, stored, and handled in accordance with state and federal regulations.

4. STORMWATER DRAINAGE

Neither property (620 and 700 South Riverside Drive) has any onsite piping, ditches, catch basins, manholes, treatment/detention ponds or related structures, or outfalls to manage stormwater drainage. Roof gutters and downspouts on the buildings at the 700 South Riverside Drive property discharge to the ground surface. Both properties are graded to allow stormwater to flow towards South Riverside Drive (away from the Duwamish River). The nearby storm drains in South Riverside Drive are managed and controlled by the City of Seattle. ACC does not allow any direct stormwater or effluent to discharge to the Duwamish River; however, stormwater contacting the shoreline facilities and wooden docks at both properties will likely discharge directly to the Duwamish River.

5. SPILL PREVENTION, CONTROL AND COUNTERMEASURE PLAN

A Spill Prevention, Control and Countermeasure (SPCC) Plan is required by the United States Environmental Protection Agency (USEPA) regulations contained in Title 40 of the Code of Federal Regulations, Part 112 (40 CFR 112 – SPCC Rule). The SPCC Rule is applicable to any owner or operator of a non-transportation related onshore or offshore facility engaged in drilling, producing, gathering, storing, processing, refining, transferring, distributing, using, or consuming oil and oil products, which due to its location, could reasonably be expected to discharge oil in quantities that may be harmful into or upon the navigable waters of the United States or adjoining shorelines. A facility is subject to the SPCC Rule if the total aboveground storage capacity of oil and oil products exceeds 1,320 gallons; or if the underground storage capacity exceeds 42,000 gallons; and if, because of its location, the facility could reasonably be expected to discharge oil into navigable waters of the United States. Oil-filled bulk storage containers and oil-filled equipment with a capacity of less than 55-gallons are not included in the total storage capacity of the facility and are exempted from requirements under the SPCC Rule.

ACC has developed and implemented an SPCC Plan because the oil storage capacity exceeds 1,320 gallons. Given the location, drainage pathway and design of the facility, it is unlikely a discharge to navigable waters can or will occur. Copies of the Plan are maintained onsite.

APPENDIX A

SITE PLAN

THIS DRAWING IS FOR CONCEPTUAL PURPOSES ONLY. ACTUAL LOCATIONS MAY VARY AND NOT ALL STRUCTURES ARE SHOWN.

SCALE: 1" = 50'
WHEN PLOTTED AT 11 x 17 PAGE SIZE
0 50 100 150'

NOTES

2007 AERIAL PHOTOGRAPH FROM GOOGLE EARTH PRO (LICENSED TO SLR INTERNATIONAL CORP.)

PROPERTY BOUNDARY FROM HTTP://WEB1.SEATTLE.GOV, MY NEIGHBORHOOD MAP.

BUILDING AND STORAGE LOCATIONS FROM MULTIPLE 2009 SITE VISITS.

SEE SECTION 2.3.1 OF THE SPCC PLAN FOR THE CONTAINER SIZE AND CONTENT AT EACH STORAGE LOCATION.

LEGEND

- ESTIMATED PROPERTY BOUNDARY
- FENCE LINE
- SPILL RESPONSE MATERIALS
- FUEL DISPENSING STATION

AMERICAN CIVIL CONSTRUCTORS WEST COAST, INC
700 SOUTH RIVERSIDE DRIVE
SEATTLE, WASHINGTON 98108

Report
SPILL PREVENTION, CONTROL AND COUNTERMEASURE PLAN

Drawing
SITE PLAN

Date October 12, 2009	Scale AS SHOWN	Fig. No. 1
File Name Drawing2-3	Project No. 008.0391.00002	

SLR

APPENDIX B

QUARTERLY COMPLIANCE AUDIT CHECKLIST

QUARTERLY COMPLIANCE AUDIT CHECKLIST

Name of Inspector _____

Signature of Inspector _____

Inspection Date and Time _____

Weather Condition _____

Summarize the hazardous materials used onsite during the previous quarter in the following table. Make sure that a current Material Safety Data Sheet (MSDS) is available and onsite for each material in the table.

Hazardous Material	MSDS Onsite & Current?	Estimated Quantity Used During the Last Quarter (gallons)	Storage Location	Any Evidence of Spills or Leaks in Storage Area?

Inspect the following areas for evidence of spills or leaks or any evidence of pollutants or potential pollutants entering the Duwamish River and/or stormwater discharges. Note any deficiencies observed and/or any corrective action taken.

Inspection Area	Deficiency		Description of Deficiency and/or Corrective Action
Oil Storage Room and Fueling Area	No	Yes	If yes, describe:
Hazardous Waste Storage Area	No	Yes	If yes, describe:
Portable Diesel Tanks	No	Yes	If yes, describe:
Dumpsters and Scrap Metal Recycling	No	Yes	If yes, describe:
Unpaved Yard and Equipment Storage (portable cranes and power packs)	No	Yes	If yes, describe:
Moorage Facilities and Docks	No	Yes	If yes, describe: