ENVIRONMENTAL CHECKLIST
Prepared for the Stericycle Georgetown Facility
734 South Lucile Street
Seattle, Washington
Amec Foster Wheeler Project 8770

A. BACKGROUND

1. Name of proposed project, if applicable:

Implementation of Amendment I to the Cleanup Action Plan (CAP) at the Stericycle Georgetown Facility. Hereafter Amendment I to the CAP will be referred to as "Amendment I".

2. Name of applicant:

Burlington Environmental, LLC, a wholly-owned subsidiary of Stericycle Environmental Services, LLC (hereafter referred to as Stericycle)

3. Address and phone number of applicant and contact person:

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4. Date checklist prepared:

April 20, 2015

5. Agency requesting checklist:

Washington State Department of Ecology (Ecology)

6. Proposed timing or schedule (including phasing, if applicable):

The cleanup action for the Outside Area is outlined in Amendment I and the First Amendment to Agreed Order #DE 7347 (AO). The cleanup action will be implemented in a phased approach to address the area west of 4th Ave. S and downgradient of the Stericycle Georgetown Facility (Figure 1 and 2 attached). The surface work required at the site consists of injection of a chemical oxidant into the subsurface in two phases (a pilot study and a full scale injection) and potentially injection of biodegradation-promoting substrate (likely an alcohol) and

microorganisms to promote degradation of 1,4-dioxane. Surface work will begin after a RD/RA work plan is developed and approved that is consistent with the Model Toxics Control Act (MTCA) regulations. At this time it is anticipated that surface work should begin in the second half of 2015.

The following represents the most likely sequence of events in implementing Amendment I.

A. Collect push probe samples to evaluate in situ chemical oxidation (ISCO) and in situ bioremediation (ISB).

B. Approximately one month later inject a chemical oxidant into 4 injection points via push probe technology (as shown on Figure 3 for the pilot study). Post injection monitoring will take place for 3 months and will consist of 4 monitoring events where push probe samples will be collected.

C. Full scale ISCO injections will take place 3 months after pilot scale injections. Full scale injections may consist of two rounds separated by one month (30 push probe injection points each round).

D. ISCO injections followed by 6 months of monitoring with push probes.

E. Following ISCO monitoring, potential injection of microorganisms and substrate into 2 monitoring wells for ISB evaluation followed by in well monitoring period.

F. If ISB is determined to be an effective remedy for the Outside Area, substrate and/or microorganisms may be injected in the 36 proposed locations shown on Figure 4.

G. Following ISB injections, two years of quarterly monitoring with push probes will take place prior to changing back over to the long term monitoring program for the site as outlined in the CAP.

The above project sequence is intended to summarize the general implementation plan anticipated for the preferred final cleanup action for the Outside Area. The implementation sequence could change as a result of final engineering presented in the RD/RA Work Plan.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

No future additions planned. All work will involve temporary deployment of mobile equipment in the Outside area. No new permanent wells are being installed as part of the preferred remedy as outlined in Amendment I to the CAP. No further activities are connected to this proposal.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

The first Amendment to Agreed Order #DE 7347 (AO Amendment) has been prepared to require implementation of Amendment I which is an attachment to the Order. The Order, with attached Amendment I, is being provided to the public for comment. Once the comment period closes and the order and Amendment I

is finalized, Stericycle will submit a number of engineering and monitoring documents. These documents are described in Amendment I of the CAP.

Amendment I was prepared following a Focused Feasibility Study (FFS)-to address the Outside Area of the site. Documents associated with the FFS are identified in Amendment I to the CAP and in Exhibit F of the Agreed Order.

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

As noted above, Stericycle's proposed action is described in two documents that are being provided to the public for comment: the AO Amendment and Amendment I (exhibit F of the AO). These are the only "government approvals" pending at this time.

10. List any government approvals or permits that will be needed for your proposal, if known.

Other than Department of Ecology's finalization of the Amendment to the AO and the Amendment I to the CAP (with future documents required by the order as outlined in the Amendment to the AO and Amendment I to the CA); it is anticipated that the following approvals will be needed:

Underground Injection Permit

City of Seattle Stormwater Control Plan

Industrial Wastewater permitting
(King County Industrial Waste Program Discharge Authorization #4196-01)

Washington State Department of Ecology Start Cards for Wells

Seattle Department of Transportation Right of Way Permit.

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

The Stericycle Georgetown site has been administratively divided into two areas: an area east of 4th Ave. S. and an area of groundwater contamination west of 4th Ave. S. The CAP addresses contamination in the east of 4th Ave. South area outside of the HCIM barrier wall. Amendment I addresses the areas east of 4th Ave. S. in the Outside Area (west of the Stericycle facility) pertaining to the 1,4-dioxane groundwater contamination. The contamination in this area may be attributable to releases of 1,4-dioxane from the former hazardous/dangerous waste operations located at 734 South Lucile Street, a property now owned by

Stericycle. The facility at this location operated under a Resource Conservation and Recovery Act (RCRA) permit until 2003, when operations were "closed."

A combination of ISCO and potentially ISB will be performed consistent with preferred remedy for clean up of affected soils and groundwater as outlined in the Amendment I.

Proposed cleanup actions for Outside Area are listed below:

ISCO Injections – Samples will be collected to evaluate the specific type of oxidant to address 1,4-dioxane but will be some variation of persulfate. A pilot study will be conducted after selection of the oxidant and evaluation of the required oxidant dose for four push probe locations as shown on Figure 3. Follow up push probe monitoring will be conducted for 3 months to evaluate side effects of the ISCO injection. If the pilot test is deemed successful, a full scale ISCO injection event will occur after the 3 month monitoring period and may include two rounds of injections. The first round will comprise of 30 push probe injections along 6th Ave. S. between S. Orca St. and S. Findley St. If the second round of injections is required, the same location will be targeted with the ISCO but the points will be staggered slightly from the first round injection locations.

ISB Injections – Approximately 6 months after the final round of ISCO injections, ISB injections may be used depending on results of a treatability study. If ISB is used, 36 push probe injection locations will be used to distribute a substrate chemical (likely an alcohol) and/or microorganisms. The preliminary locations are shown in Figure 4. Final locations and substrate details will be presented in the RD/RA Work Plan for the Outside Area.

General – Injections will be performed from a trailer or an injection manifold that is contained within secondary containment. In addition a spill prevention plan and/or storm water pollution plan will be developed prior to commencing work. Work zones will be fenced off to limit public access adjacent to injection equipment, chemicals, and heavy equipment.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

The former RCRA facility is located at 734 South Lucile Street, Seattle, King County, Washington, in the Georgetown neighborhood of south Seattle. This property is comprised of City of Seattle parcels 1722800206 (70,553 square feet) and 5084400124 (14,480 square feet).

The Outside Area (40 acres) is located outside the HCIM area as shown on Figure 2 and includes:

- a small portion of the former PSC RCRA facility, south of the wall; and
- areas of contaminated groundwater downgradient of the HCIM barrier wall extending to 4th Avenue South.

Outside Area properties have multiple owners, both public and private and include mixed residential, industrial, and commercial properties. A vicinity map is provided as Figure 1. The Outside Area is depicted on the Site Plan in Figure 2. The Duwamish Waterway is located approximately 0.75 mile west (downgradient) of the facility.

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site (circle one): Flat, rolling, hilly steep slopes, mountainous, other.

b. What is the steepest slope on the site (approximate percent slope)?

The Outside Area is generally flat with no grades greater than 5 percent.

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.

The Outside Area is covered in pavement, concrete, buildings, gravel, and areas of grass. The CAP identifies five hydrogeologic units that occur with increasing depths within the cleanup area. The hydrogeologic units of primary interest include the shallow sand unit, intermediate sand and silt unit, silt unit, and the deep sand and silt unit. Soils in these units generally consist of poorly graded sands and silts.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

No.

e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.

Minor pavement patching will occur at push probe locations.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

Erosion of site soils is unlikely to occur since all areas to be affected by this cleanup action are currently paved or graveled. Injection points will be paved over once work has been completed.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

The percentage of impervious area will not change for the Outside Area.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

Best management practices will be followed as per the Stormwater Management Manual for Western Washington.

2. Air

a. What types of emissions to the air would result from the proposal (i.e., dust, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.

During Outside Area injections and monitoring events the only emissions that will take place will be from automobile and construction equipment exhaust.

There will be no emissions released after injections and between/after groundwater monitoring periods.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No.

c. Proposed measures to reduce or control emissions or other impacts to air, if any:

During injections and monitoring events; machines and equipment used during excavation will be well maintained and will not be allowed to idle unnecessarily.

3. Water

a. Surface:

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

No. The nearest body of water is the Duwamish Waterway, approximately 0.3 mile west-south west of the closest injection area area. The Duwamish Waterway discharges into Puget Sound.

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

No.

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

None.

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

No.

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

No.

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

No. Any wastewaters or contaminated soils that are generated as part of the injection/monitoring process will be transported to the existing groundwater recovery and treatment system on the Stericycle Facility to be characterized and disposed of appropriately.

b. Groundwater:

1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities if known.

No, the proposal includes both an in situ chemical oxidation and an in situ bioremediation process. As such, groundwater is not extracted in either case. A persulfate solution (usually 5-8% by weight) will be injected into the groundwater as part of the ISCO program but the exact amount is yet to be determined (will be determined in the treatability study for ISCO). In addition, a substrate such as an alcohol and/or microorganisms may be injected as part of the ISB program but specifics are unknown at this time until the completion of the ISB treatability study.

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage;

industrial, agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

None.

c. Water runoff (including storm-water):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

The only construction work proposed as part of Amendment I to the CAP is push probe injections and sampling. Spoils from drilling will be placed in a containment (e.g. drum) and hauled off site. Stormwater will be kept separate from any groundwater and soil removed using best management practices.

2) Could waste materials enter ground or surface waters? If so, generally describe.

No. Waste materials will either be treated at the King County Industrial Waste permitted Stericycle groundwater treatment system onsite or will be segregated and characterized for offsite disposal in accordance with appropriate federal and state hazardous waste regulations.

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

No. Minimal surface impacts required as part of the work proposed.

d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:

No water will leave any cleanup areas in an uncontrolled fashion. All stormwater will be collected, treated if necessary at the treatment system at the Stericycle Georgetown Facility, and then released to CSO.

4. Plants

a. Check or circle types of vegetation found on the site:

_***X***_ ***deciduous tree: alder, maple, aspen, other***
_***X***_ ***evergreen tree: fir, cedar, pine, other***
_***X***_ ***shrubs***
_***X***_ ***grass***
___ ***pasture***
___ ***crop or grain***
___ ***wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other***
___ ***water plants: water lily, eelgrass, milfoil, other***
___ ***other types of vegetation***

b. What kind and amount of vegetation will be removed or altered?

None.

c. List threatened or endangered species known to be on or near the site.

None.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

None. No landscaping is present on site and none will be added.

5. Animals

a. Underline any birds and animals which have been observed on or near the site or are known to be on or near the site:

Birds and animals that have been observed on or near the site are listed below:
birds: hawk, heron, eagle, songbird, seagulls, crows
mammals: deer, bear, elk, beaver, none observed
fish: bass, salmon, trout, herring, shellfish, none

b. List any threatened or endangered species known to be on or near the site.

None.

c. Is the site part of a migration route? If so, explain.

No.

d. Proposed measures to preserve or enhance wildlife, if any:

None.

e. List any invasive animal species known to be on or near the site.

None.

6. Energy and natural resources

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

A diesel-powered generator will be used to supply power for injection equipment including pumps and mixing equipment.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No.

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

None.

7. Environmental Health

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste that could occur as a result of this proposal? If so, describe.

The proposed Amendment I to the CAP has been designed to protect human health and the environment from site-related contamination. That is, its very *purpose* is to expedite clean-up downgradient of the site so that current and future receptors are better protected. To attain this goal a number of separate actions are proposed to be implemented:

- a bench scale study to evaluate persulfate effectiveness;
- treatability study injections adjacent to CG-122 to determine oxidant dosing design for the area adjacent to CG-127 and to evaluate metals mobilization, sulfate migration, and pH decreases;
- bench-scale studies to determine substrate selection and bioaugmentation requirements;
- inject of persulfate adjacent to CG-127;
- an ISCO performance monitoring program;
- injection of substrate and microorganisms (if required as determined by the bench study performed by The Sentinel Environmental Group) adjacent to CG-122 (upgradient of the plume area) and adjacent to CG-161 in the middle of the plume area; and
- an ISB performance monitoring program; and long term MNA for diffuse concentration locations.

While the actions are being constructed/implemented there are several safety concerns for site workers. These concerns will be addressed in a health and safety plan. There are also possible, though highly unlikely, public safety concerns that will be considered and addressed as part of the design phase of the proposed actions. Controlling access to the work areas will be the primary safeguard.

The primary COC in the Outside are is 1,4-dioxane. At the Stericycle site, though, elevated levels of certain metals (such as manganese and lead) have been detected in site soils and groundwater. Anaerobic conditions in the shallow

aquifer have promoted dissolution of reduction/oxidation (redox) sensitive metals (iron and manganese) in the groundwater.

A Health and Safety Plan (HASP) specific to the project will be developed and followed to mitigate potential hazards.

1) Describe any known or possible contamination at the site from present or past uses.

Contamination in the proposed work area in the Outside Area primarily consists of 1,4-dioxane and halogenated volatile organic compounds.

2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

The locations of the proposed injection points were selected to reduce the number of utility conflicts. Exact utility locations will be determined after approval of the RD/RA, prior to implementation of any ground disturbing work.

3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.

Sodium persulfate is an oxidizer that will be stored in secondary containment adjacent to the injection area for short periods of time (less than 2 weeks per injection event). The substrate used as part of the ISB program will be an alcohol with minimal toxicity.

4) Describe special emergency services that might be required.

While personnel will be trained in hazardous waste site operations and will follow the procedures specified in the Health and Safety Plan, in an emergency, the City of Seattle Fire Department or Medic One services may be required.

5) Proposed measures to reduce or control environmental health hazards, if any:

Site access during cleanup implementation phases will be controlled to authorized personnel only so that the general public will not be at risk. On-site cleanup workers will strictly adhere to the Health and Safety plan.

b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

Vehicle, train, and nearby air traffic.

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic,

construction, operation, other)? Indicate what hours noise would come from the site.

Noise from traffic, and drill rigs, would occur from 7 AM to 5 PM on normal business days during injection and performance monitoring events only.

3) Proposed measures to reduce or control noise impacts, if any:

None. Construction will only occur from 7 AM to 5 PM on normal business days. Site workers will adhere to the HASP and wear hearing protection when required.

8. Land and shoreline use

a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.

The HCIM Area – which includes most of the former RCRA facility and the former TASCO property – has been used industrially since about 1936. It is expected to continue to be used primarily for industrial or commercial use in the foreseeable future. Properties that comprise the HCIM Area are zoned General Industrial 1 (IG1), which allows the heaviest degree of industrial use, and typically relies on rail and marine transportation.

The Outside Area – that part of the eastern portion of the site that is outside the barrier wall – is densely developed and includes private residences interspersed with both commercial and industrial operations. Many active subsurface utilities are also present in this area. Properties adjacent to the facility are zoned General Industrial 1 (IG1), and this zoning is consistent with historical ownership and use. The area west of Denver Avenue South and extending to Fourth Avenue South is zoned General Industrial 2 (IG2), which allows industrial as well as commercial uses (for those latter uses that do not interfere with industrial use). To the east of the former RCRA facility is a rail yard (Argo Yard) owned and operated by UPRR with industrial use dating back to the early 1900s.

The Georgetown neighborhood west of Denver Avenue South was predominantly residential until the 1970s, when industrial development of the area increased substantially. Today residences in the eastern portion of the Outside Area are primarily found along South Brandon and South Lucile Streets, between Denver Avenue South and 6th Avenue South, and along the north side of South Lucile Street between 4th Avenue South and 5th Avenue South.

The proposal will not affect current land uses on nearby or adjacent properties.

b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

No.

1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how:

No.

c. Describe any structures on the site.

Numerous industrial, commercial, and residential structures exist in the Outside Area.

d. Will any structures be demolished? If so, what?

No.

e. What is the current zoning classification of the site?

The site is designated General Industrial 1 on the City's Zoning.

f. What is the current comprehensive plan designation of the site?

It is expected to continue to be used primarily for industrial or commercial use in the foreseeable future.

g. If applicable, what is the current shoreline master program designation of the site?

Not applicable.

h. Has any part of the site been classified as an "environmentally sensitive" area by the city of county? If so, specify.

Yes. The area is prone to liquefaction.

i. Approximately how many people would reside or work in the completed project?

No people would reside on any of the work areas in implementing Amendment I of the CAP. An unknown number of workers and residents unrelated to the project would be working and living in the Outside Area.

j. Approximately how many people would the completed project displace?

None.

k. Proposed measures to avoid or reduce displacement impacts, if any:

Not Applicable.

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

None required.

m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any:

Not applicable.

9. Housing

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

None.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

None.

c. Proposed measures to reduce or control housing impacts, if any:

Not Applicable.

10. Aesthetics

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

No permanent structures are planned; temporary structures would only be large enough to house mixing and injection equipment (less than one story).

b. What views in the immediate vicinity would be altered or obstructed?

None.

c. Proposed measures to reduce or control aesthetic impacts, if any:

Not Applicable.

11. Light and glare

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

None.

b. Could light or glare from the finished project be a safety hazard or interfere with views?

No.

c. What existing off-site sources of light or glare may affect your proposal?

None.

d. Proposed measures to reduce or control light and glare impacts, if any:

Not Applicable.

12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity?

The Georgetown Playfield is located approximately three blocks from the site.

b. Would the proposed project displace any existing recreational uses? If so, describe.

No.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

No impacts to the Georgetown Playfield or additional recreation opportunities are expected as a result of this project.

13. Historic and Cultural Preservation

a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers located on or near the site? If so, specifically describe.

No.

b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

None have been identified on the project site.

c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include

consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

None of the local tribes were shown to be present historically in the Georgetown area based on a review of the Washington Tribes map at: http://www.washingtontribes.org/default.aspx?ID=48

A review of the WISAARD map did not identify any the presence of any for architectural and archaeological sites in the immediate area.

d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.

Not applicable.

14. Transportation

a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.

The Outside Area, is bordered by 4th Ave South to the west, 7th Ave South to the east, north of S. Mead St. and south of S. Brandon St. Refer to Figure 2 for a site map. Airport Way South is located to the east of the site and provides access to Interstate 5. State Route 99 can be accessed by following South Lucile Street one-half mile to the west.

b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?

The nearest transit stop is accessible along Airport Way South and South Lucile Street, about 500 feet southeast of the site.

c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate?

Not Applicable. Existing site features will be returned to current conditions upon completion of the proposed work.

d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).

No.

e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

No.

f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates?

None.

g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.

No.

h. Proposed measures to reduce or control transportation impacts, if any:

A traffic control plan will be developed to minimize traffic impacts during implementation of the remedy. The traffic control plan is a requirement as part of the City of Seattle permitting process.

15. Public Services

a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe.

No.

b. Proposed measures to reduce or control direct impacts on public services, if any.

Not applicable.

16. Utilities

a. Underline utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other.

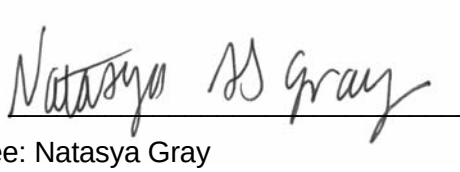
No utilities are currently available for the work proposed for the Outside Area. It is anticipated that potable city water will be brought in with water trucks from the Stericycle Georgetown Facility and electricity will be provided via a diesel generator during injections events.

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

No new utilities will be required for the Outside Area work to be performed. A temporary diesel generator will be used during injection events and potable water will be brought to the Outside Area from the Stericycle Georgetown Facility.

C. SIGNATURE

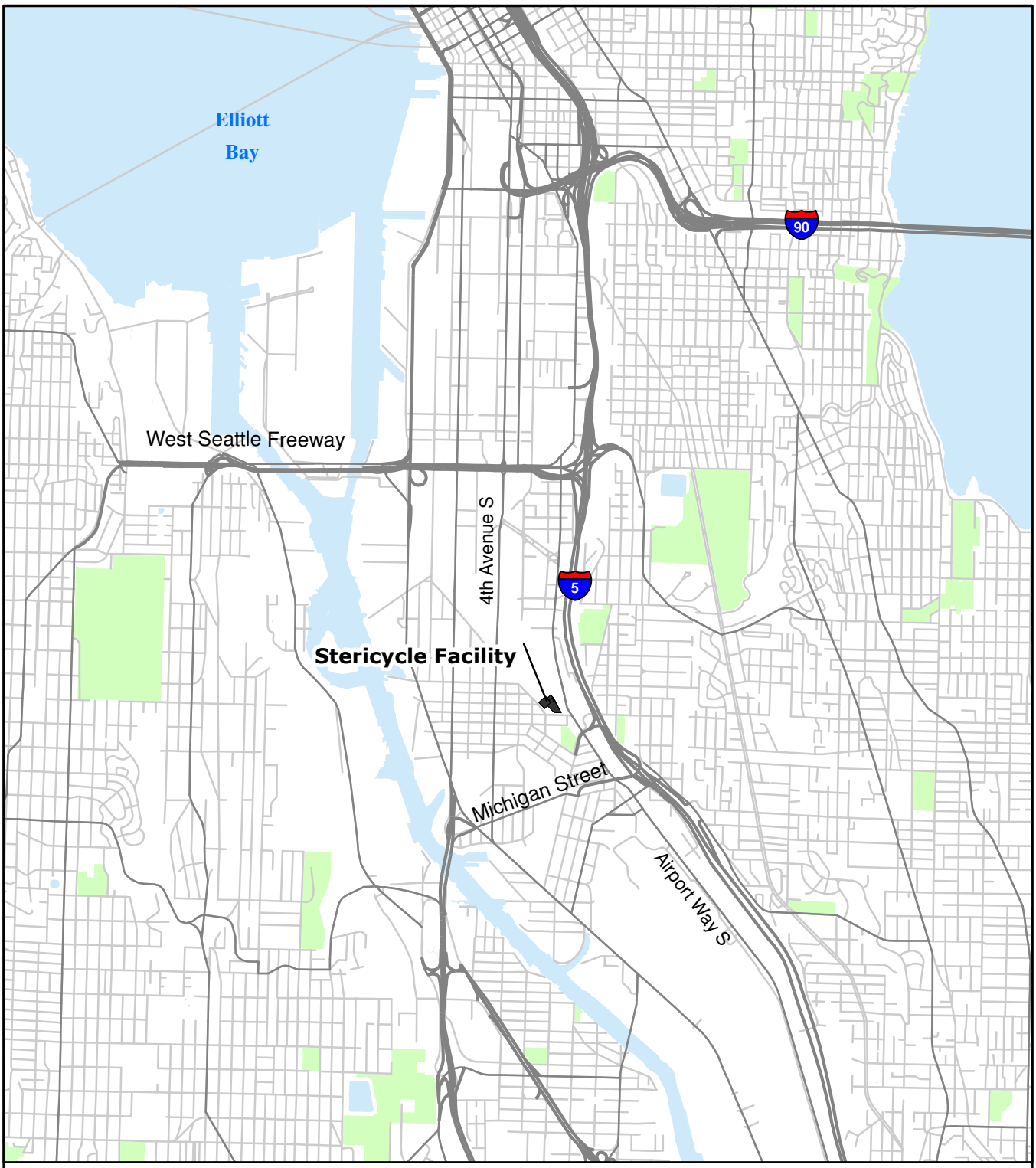
The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

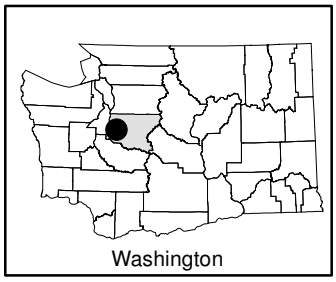
Signature: 

Name of signee: Natasya Gray

Position and Agency/Organization: Associate Geologist, Amec Foster Wheeler

Date Submitted: April 20, 2015





0 2,000 4,000 Feet

N

amec foster wheeler

LOCATION MAP
Stericycle Georgetown Facility
Seattle, Washington

By: APS	Date: 03/13/15	Project No. 8770
Amec Foster Wheeler Environment & Infrastucture, Inc		Figure 1

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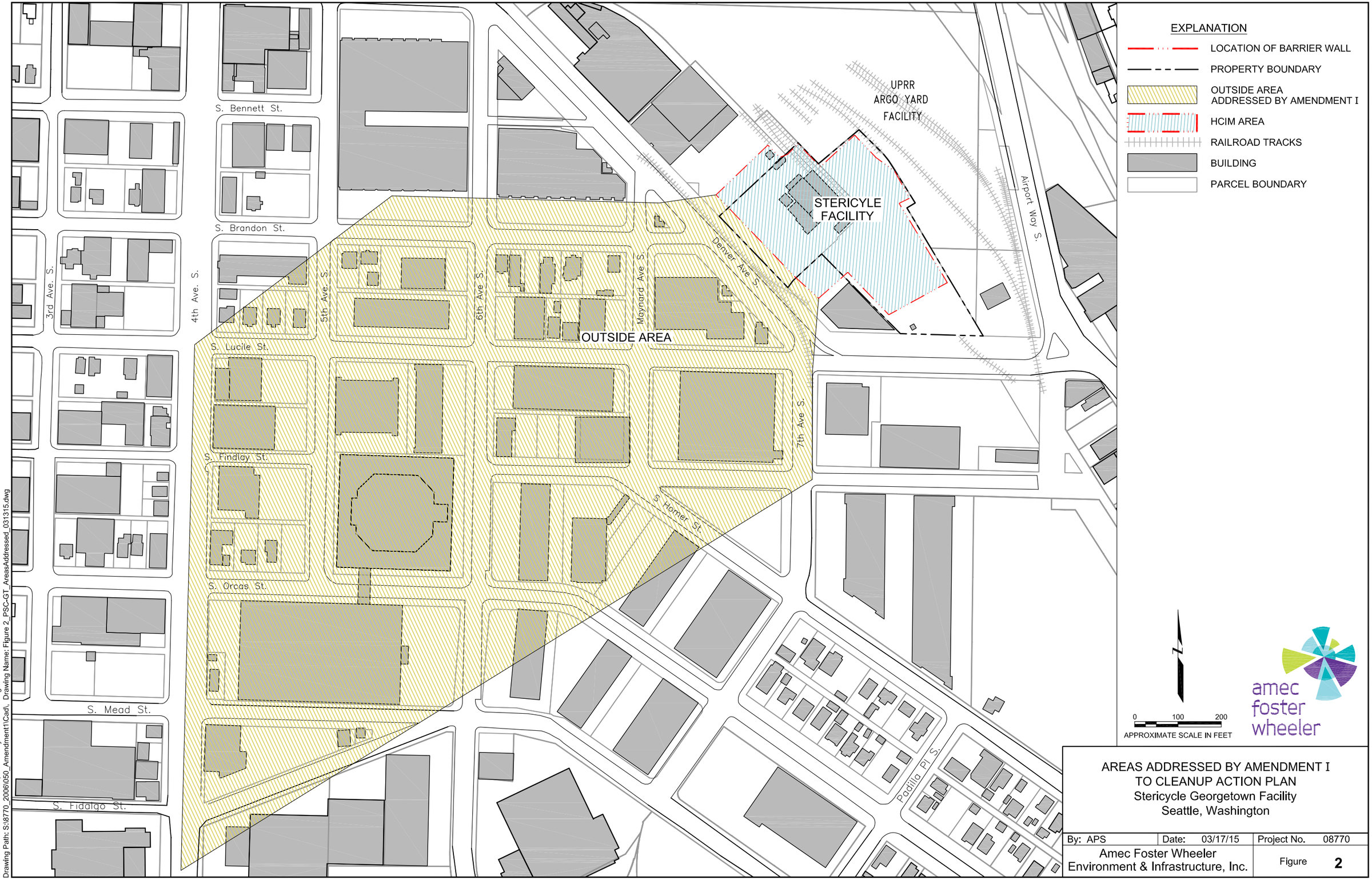

AREAS ADDRESSED BY AMENDMENT I
TO CLEANUP ACTION PLAN
Stericycle Georgetown Facility
Seattle, Washington

By: APS	Date: 03/17/15	Project No. 08770
Amec Foster Wheeler Environment & Infrastructure, Inc.		Figure **2**

Plot Date: 03/17/15 - 11:41am, Plotted by: adam.stenberg
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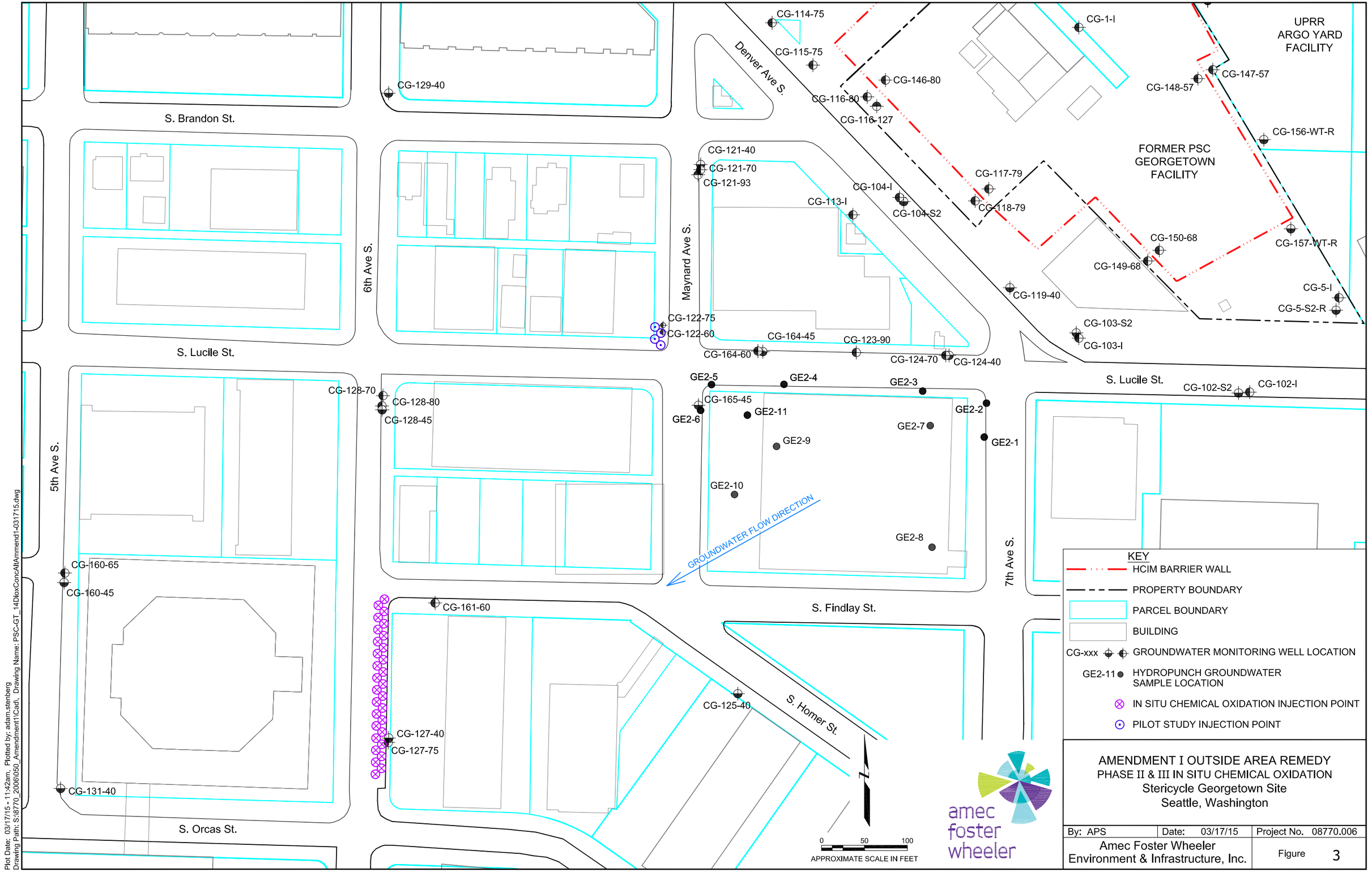
S. Brandon St.
CG-129-40
Denver Ave S.
CG-114-75
CG-115-75
CG-146-80
CG-116-80
CG-116-127
CG-1-I
UPRR
ARGO YARD
FACILITY
CG-147-57
CG-148-57
CG-156-WT-R
FORMER PSC
GEORGETOWN
FACILITY
CG-117-79
CG-118-79
CG-104-I
CG-104-S2
CG-113-I
CG-121-40
CG-121-70
CG-121-93
6th Ave S.
Maynard Ave S.
CG-150-68
CG-149-68
CG-157-WT-R
CG-119-40
CG-5-I
CG-5-S2-R
CG-103-S2
CG-103-I
CG-122-75
CG-122-60
CG-164-45
CG-123-90
CG-164-60
CG-124-70
CG-124-40
S. Lucile St.
CG-102-S2
CG-102-I
S. Lucile St.
5th Ave S.
CG-128-70
CG-128-80
CG-128-45
GE2-5
GE2-4
GE2-3
GE2-2
GE2-1
CG-165-45
GE2-6
GE2-11
GE2-7
GE2-9
GE2-10
GE2-8
7th Ave S.
GROUNDWATER FLOW DIRECTION
CG-160-65
CG-160-45
CG-131-40
CG-161-60
S. Findlay St.
CG-125-40
S. Homer St.
CG-127-40
CG-127-75
S. Orcas St.
0
50
100
APPROXIMATE SCALE IN FEET
KEY
HCIM BARRIER WALL
PROPERTY BOUNDARY
PARCEL BOUNDARY
BUILDING
CG-xxx GROUNDWATER MONITORING WELL LOCATION
GE2-11 HYDROPUNCH GROUNDWATER SAMPLE LOCATION
IN SITU CHEMICAL OXIDATION INJECTION POINT
PILOT STUDY INJECTION POINT
AMENDMENT I OUTSIDE AREA REMEDY
PHASE II & III IN SITU CHEMICAL OXIDATION
Stericycle Georgetown Site
Seattle, Washington
By: APS
Date: 03/17/15
Project No. 08770.006
Amec Foster Wheeler
Environment & Infrastructure, Inc.
Figure 3
amec
foster
wheeler
Plot Date: 03/17/15 - 11:42am, Plotted by: adam.stenberg
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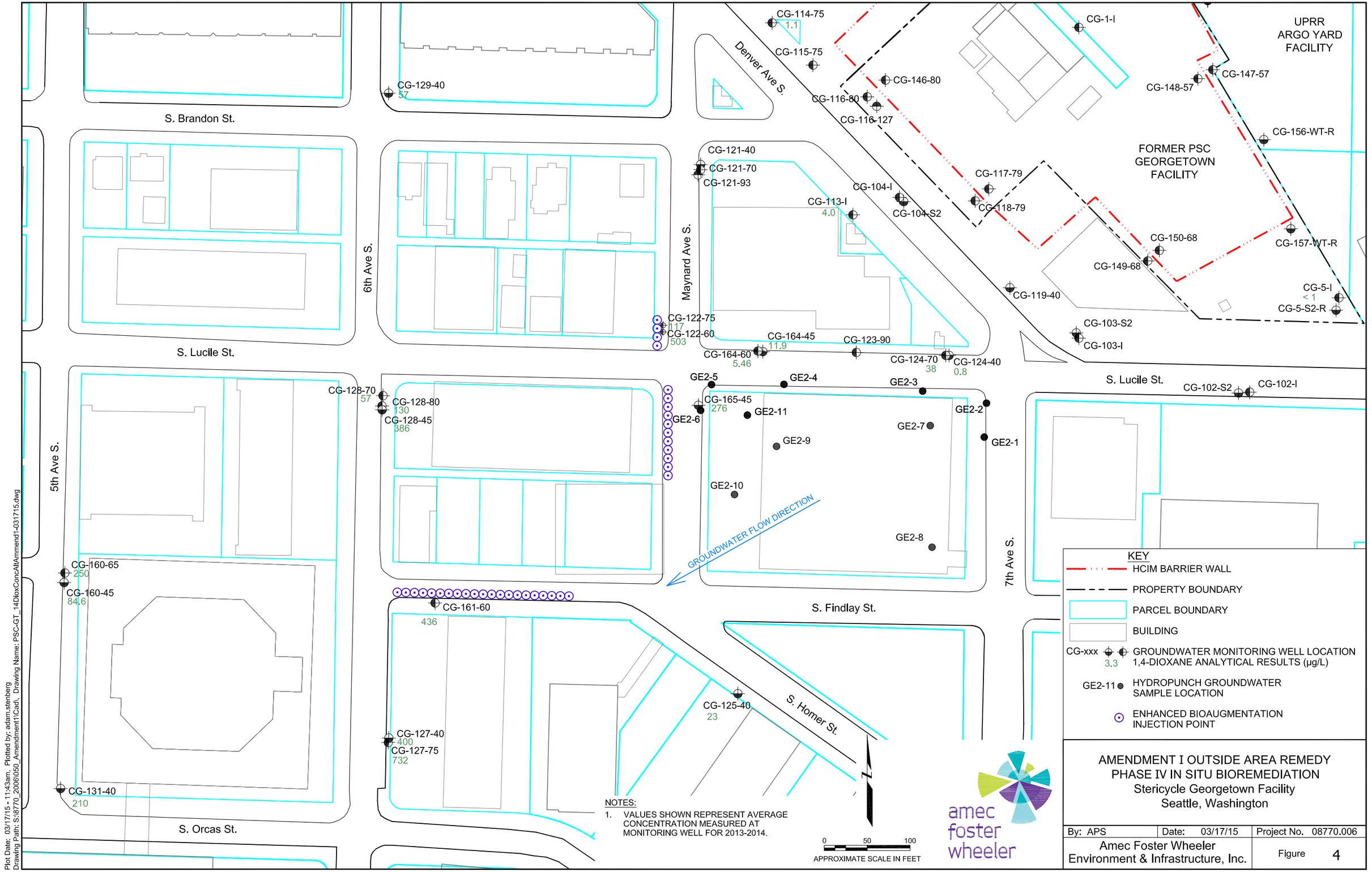
S. Brandon St.
CG-129-40
57
CG-114-75
1.1
CG-115-75
Denver Ave S.
CG-146-80
CG-116-80
CG-116-127
CG-1-I
UPRR
ARGO YARD
FACILITY
CG-148-57
CG-147-57
CG-156-WT-R
FORMER PSC
GEORGETOWN
FACILITY
CG-117-79
CG-118-79
CG-104-I
CG-104-S2
CG-113-I
4.0
CG-121-40
CG-121-70
CG-121-93
6th Ave S.
Maynard Ave S.
CG-150-68
CG-149-68
CG-157-WT-R
CG-119-40
CG-5-I
< 1
CG-5-S2-R
CG-103-S2
CG-103-I
CG-122-75
117
CG-122-60
503
CG-164-45
11.9
CG-164-60
5.46
CG-123-90
CG-124-70
38
CG-124-40
0.8
S. Lucile St.
S. Lucile St.
CG-102-S2
CG-102-I
GE2-5
GE2-4
GE2-3
GE2-2
GE2-1
GE2-6
GE2-11
GE2-7
GE2-9
GE2-10
GE2-8
CG-165-45
276
CG-128-70
57
CG-128-80
130
CG-128-45
386
5th Ave S.
7th Ave S.
GROUNDWATER FLOW DIRECTION
CG-160-65
250
CG-160-45
84.6
CG-161-60
436
S. Findlay St.
CG-125-40
23
S. Homer St.
CG-127-40
400
CG-127-75
732
CG-131-40
210
S. Orcas St.
NOTES:
1. VALUES SHOWN REPRESENT AVERAGE CONCENTRATION MEASURED AT MONITORING WELL FOR 2013-2014.
0 50 100
APPROXIMATE SCALE IN FEET
KEY
HCIM BARRIER WALL
PROPERTY BOUNDARY
PARCEL BOUNDARY
BUILDING
CG-xxx 3.3 GROUNDWATER MONITORING WELL LOCATION 1,4-DIOXANE ANALYTICAL RESULTS (µg/L)
GE2-11 HYDROPUNCH GROUNDWATER SAMPLE LOCATION
ENHANCED BIOAUGMENTATION INJECTION POINT
AMENDMENT I OUTSIDE AREA REMEDY
PHASE IV IN SITU BIOREMEDIATION
Stericycle Georgetown Facility
Seattle, Washington
By: APS
Date: 03/17/15
Project No. 08770.006
Amec Foster Wheeler
Environment & Infrastructure, Inc.
Figure 4
amec foster wheeler
Plot Date: 03/17/15 - 11:43am, Plotted by: adam.stenberg
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