

40600-RE-LST-55002
Revision 0
February 2018
Table of Concordance

TABLE OF CONCORDANCE

BHP Potash Export Facility at Fraser Surrey Docks

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Table 1: Project and Environmental Review Application Submission Requirements Table of Concordance

VFPA Checklist Requirements	Permit Application Section	Attachment
Section 1: VFPA Application Submission Requirements		
Application Form	N/A (included as Application preface)	N/A
Application Fee \$23,625	1.1 Application Fee and Documentation Deposit	N/A
Documentation Deposit (up to \$10,000)	1.1 Application Fee and Documentation Deposit	N/A
Building Permit	1.2 Building Permit	N/A
Contact List	1.3 Project Team Member Contact List	1-B Project Team Contact List
Section 2: Project Description Requirements		
Introduction		
Brief introduction of Project	2.1.1 Project Summary	N/A
High level overview of applicant's organization	2.1.2 Proponent Background	N/A
List all studies that have been completed in support of the application.	4.0 Required Studies, Reports, and Plans (Table 4-1 and Table 4-2)	N/A
Application Information		
Brief background of the applicant's company and business operations in the Vancouver Gateway	2.1.2 Proponent Background	N/A
Project Purpose and Setting		
Description of the use, purpose, project rationale, and project benefits	2.1.3 Project Rationale	N/A
Description of the site location and setting, including proximity to sensitive receptors.	2.1.6 Project Setting	N/A
Description of Proposal		
Description of all elements of proposed development, such as: Overview of Operations	2.3. Project Operations 2.3.1 Operation Process	N/A
Change in capacities and throughput (in tonnes per week, month, or year) including vehicular, truck, train and marine vessel traffic	2.3.2 Existing and Proposed Capacities and Throughput	N/A
Expected hours of operation and any changes to employment expected, peak hours and parking requirements	2.3.4 Hours of Operation and Employment	N/A

VFPA Checklist Requirements	Permit Application Section	Attachment
Proposed method, period (start to finish), hours of construction	2.2 Project Construction	N/A
Scope of demolition	2.2.1 Site Preparation	N/A
Description of construction schedule and staging activities	2.2 Project Construction	N/A
A detailed description of each physical work and activity being proposed on federal lands as part of the project, for which permission is being sought from VFPA (e.g. structures, infrastructure, site clearing, utilities), including the purpose, dimensions, and capacity.	2.2 Project Construction	N/A
Summary of Potential Impacts		
Summary of potential impacts to land, water, air, land, and adjacent community and business, as a result of the Project	4.2.14 Summary of Potential Effects and Mitigation	4.2-Y Summary of Potential Effects and Mitigation
Description of any proposed mitigation strategies.	4.2.14 Summary of Potential Effects and Mitigation	4.2-Y Summary of Potential Effects and Mitigation
Section 3: See separate Drawing Requirements Table of Concordance (Table 2), below		
Section 4: Required Studies, Reports and Plans		
Hazardous Materials Report for Demolitions		
Inventory of hazardous materials including asbestos, drywall, the contents in aboveground or underground storage tanks, PCBs, abandoned chemicals and others, material safety data sheets (MSDS)	4.1.1 Hazardous Materials Report for Demolition	4.1-A Hazardous Materials Report for Demolition
Description of hazardous materials storage and handling methods.		
Table of applicable regulations		
Hazardous materials reuse, removal, recycling, and disposal plan, prior to demolition of structures in accordance with all relevant regulations.		
Geotechnical Report		
Description of site seismic and geologic hazard.	4.1.2 Geotechnical Report	4.1-B Geotechnical Report
Description of construction measures, precautions, and corrective actions recommended for preventing structural damage and reducing the risk of terrestrial, marine and riparian geotechnical hazards to acceptable level.		
Stormwater Pollution Prevention Plan		
Description of daily terminal operations as they relate to stormwater management, given the local climate and water capture and treatment systems.	4.3.1 Stormwater Pollution Prevention Plan	4.3-A Stormwater Pollution Prevention Plan

VFPA Checklist Requirements	Permit Application Section	Attachment
Traffic Impact Study		
An assessment of how increased traffic volumes due to employee traffic or other traffic derived from the development can be accommodated.	4.2.8 Traffic Impact Assessment	4.2-S Traffic Impact Assessment
Include proposed hours of operation and staffing number and dimensioned site plan, showing circulation, buildings, new line painting, proposed parking for employee traffic and to facilities site deliveries		
Rail Operations Plan and Rail Impact Study		
An assessment of the rail operation expected, including length and number of cars, average number and peak number of trains per day anticipated at the site, how rail cars are delivered to the site and managed while on site, and total site capacity - length of tracks and total number of trains that can be accommodated on site.	4.3.3 Rail Operations Plan	4.3-C Rail Operations Plan
Overview of how shunting or car switching is conducted or managed, and design speed for arriving and departing trains.		
Provide copy of the rail agreement with the participating carrier.		
Description of the design capacity and specifications for the rail components that are specified for all on-site rail.		
A rail impact study will be required as part of the Project Permit Application. The rail impact study would include details about arrival and departure track lengths, on-side rail capacity, and static rail analysis depicting operating protocols anticipated for train arrivals and departures.		
The rail study should also address how capacity already taken up by other rail users in the area would affect the proposed development, and what operational and infrastructure requirements would be required to support the development.		
Marine Traffic Information Requirements		
Confirmation of the design vessel range (maximum and minimum size of vessels that can be berthed and loaded - LOA, beam, draft and air draft).	4.1.5 Marine Traffic Information Requirements Report	4.1-E Marine Traffic Information Requirements Report
Anticipated vessel traffic levels (frequency of vessels calls) by ship size.		
Anticipated anchorage requirements and utilization periods.		
Operational Plan for Berthing/Unberthing which addresses items such as bunkering procedures, berthing tugs, warping, mooring arrangements (for all vessels sizes), meeting/passing arrangements with vessels occupying adjacent berths, etc.		

VFPA Checklist Requirements	Permit Application Section	Attachment
Noise Study		
An assessment of how the proposed development will affect the noise levels experienced by the adjacent community.	4.2.5 Noise Assessment	4.2-P Noise Assessment
Air Assessment		
Conduct an assessment of contributions to air quality and climate change associated with the facility and related off-site operations.	4.2.6 Air Quality Assessment	4.2-Q Air Quality Assessment
For further information, please review VFPA's Environmental Air Assessment and Air Emission Management Plan Guidelines, available at: www.portvancouver.com/development-and-permits/project-and-environmental-reviews/technical-guidelines/		
Comment from VFPA: Level 2 Dispersion Modelling is required for this project, as described in the guidelines. Template will be provided by VFPA during pre-app stage		
Energy Efficiency Study		
An assessment of how the proposed development (buildings, motorized equipment and lights) will affect electrical energy consumption levels. Include energy modelling, demonstrate selection of BATNEC (Best Available Technology Not Entailing Excessive Cost) energy efficient equipment.	4.1.4 Energy Efficiency Study	4.1-D Energy Efficiency Study
View and Shade Impact Analysis		
An assessment and renderings of potential view and shade impacts of the proposed development.	4.2.7 View and Shade Impact Analysis	4.2-R View and Shade Impact Analysis
For further information, please review VFPA's View and Shade Impact Guideline, available online: www.portvancouver.com/development-and-permits/project-and-environmental-reviews/technical-guidelines/		
Comment from VFPA: Preliminary feedback provided on View Options Study on July 18, 2017		
Archaeological Potential - Preliminary Assessment		
Footprint and depth of ground alteration works, if proposed.	4.2.9 Archaeological Potential - Preliminary Assessment Report	4.2-T Archaeological Potential - Preliminary Assessment Report
Identify if the proposed project is situated on fill or native soil, and what the anticipated impacts to native soil may be.		
Identify if the proposed project is within 100 m of potable water (historically or currently present).		

VFPA Checklist Requirements	Permit Application Section	Attachment
Location of proposed project in relation to the original shoreline or river/stream bank.		
Determine if the project is situated on relatively level ground.		
Archaeological Overview Assessment		
Identify and assess archaeological resource potential or sensitivity within a proposed Project area.	4.2.10 Archaeological Overview Assessment	4.2-U Archaeological Overview Assessment
Provide recommendations concerning the appropriate methodology and scope of work for subsequent inventory and/or archaeological impact assessment studies.		
Construction Environmental Management Plan		
Description of how the site will be managed during construction that does not result in adverse impacts to the environment, heritage resources, public (municipal, stakeholders, community), Aboriginal groups and including potential effects from limiting noise, vibration, light, dust emissions and odour.	4.3.2 Construction Environmental Management Plan	4.3-B Construction Environmental Management Plan
Soil and Groundwater Management Plan		
Outlines how the proponent will test for, appropriately handle, limit migration/run-off and dispose of contaminated soils and groundwater.	4.3.2 Construction Environmental Management Plan	4.3-B Construction Environmental Management Plan, Appendix A
Required when dealing with properties with known or suspected contamination in the soil or groundwater.		
Comment from VFPA: This may be a component of the CEMP or a separate report		
Phase 2 ESA Report		
Submit a copy of the Phase 2 Environmental Site Assessment (ESA) report, and any supplemental site investigation reports	4.2.3 Phase I and II Environmental Site Assessment	4.2-N Phase I and II Environmental Site Assessment
Habitat Assessment		
An assessment of species and habitats that will be affected by project activities such as infilling, vegetation removal, or shoreline modification.	4.2.12 Aquatic Resources Assessment Report 4.2.13 Terrestrial Resources Assessment Report	4.2-W Aquatic Resources Assessment Report 4.2-X Terrestrial Resources Assessment Report

VFPA Checklist Requirements	Permit Application Section	Attachment
Nesting Bird Survey		
An assessment of nesting birds using non-intrusive methods (i.e. determine the presence of birds in habitat through observation of singing birds, alarm calls, distraction displays, nest).	4.2.13 Terrestrial Resources Assessment Report	4.2-X Terrestrial Resources Assessment Report
Include a description of existing conditions, potential impacts, and proposed mitigation strategies.	4.2.13 Terrestrial Resources Assessment Report	4.2-X Terrestrial Resources Assessment Report
Comment from VFPA: This will be required if vegetation and tree removal is proposed during bird nesting season or if the nests of bird species protected at all times of the year are potentially present. This may be included as part of the mitigations outlined in the CEMP.	4.3.2 Construction Environmental Management Plan	4.3-B Construction Environmental Management Plan
Species-At-Risk-Assessment		
Identification of all federal and provincial listed species-at-risk associated with the proposed project.	4.2.12 Aquatic Resources Assessment Report	4.2-W Aquatic Resources Assessment Report
Include a description of potential impacts and proposed mitigation strategies.	4.2.13 Terrestrial Resources Assessment Report	4.2-X Terrestrial Resources Assessment Report
Known occurrences of streambank lupine, a SARA-listed plant, are recorded in the forested area proposed for a portion of the rail track. Critical habitat has been defined to include a 50 m critical function zone around known occurrences.	4.2.13 Terrestrial Resources Assessment Report	4.2-X Terrestrial Resources Assessment Report
For streambank lupine, the application will need to: 1. Identify adverse effects 2. Outline measures taken to avoid or reduce effects 3. Describe how the measures are consistent with the recovery strategy 4. Provide an outline of a monitoring plan		
Comment from VFPA: This may be a component of the Habitat Assessment or a separate report		
Invasive Species Assessment		
Existing invasive species types	4.2.13 Terrestrial Resources Assessment Report	4.2-X Terrestrial Resources Assessment Report
Mitigation plan to prevent spread of invasive species during construction	4.3.2 Construction Environmental Management Plan	4.3-B Construction Environmental Management Plan
Invasive species monitoring and management plan		
Comment from VFPA: This may be a component of the Habitat Assessment, CEMP or separate report		

VFPA Checklist Requirements	Permit Application Section	Attachment
Fire Safety Plan		
Detail employee safety education and compliance with relevant safety regulations	4.3.4 Fire Safety Plan	4.3-D Fire Safety Plan
Identify potential hazards		
Detail procedures to be put in place in the event of an emergency at the site		
Comment from VFPA: This is more of an operational plan however, a draft Plan would be useful during the review process		
Flood Protection		
Conduct a vulnerability assessment of any areas of the site which may be at risk of flooding in light of the value and vulnerability of the commodities, contamination risk, as well as day-to-day operations.	4.2.11 Flood Vulnerability	4.2-V Flood Protection Assessment
Flood Risk Assessment to be prepared by a qualified consultant, and take into account the proposed final site elevations (including road/rail lines, parking lots and storm drainage system, finished floor elevations, electrical substation pads, etc.)		
Utilize the following Design Flood and climate change parameters, as presented in "Simulating the Effects of Sea Level Rise and Climate Change Scenarios on Fraser River Flood Scenarios" (FLNRO, 2014): <ul style="list-style-type: none"> - 1 in 200 year Annual Exceedance Probability (AEP) event - Moderate Climate Change allowance - 0.5 metre Sea Level Rise scenario 		
The Climate Change allowance and Sea Level Rise factor should be adjusted as needed to match the expected end-of-life date of the proposed infrastructure		
Section 5: Preliminary Comment Period Consultation Requirements		
Preliminary Comment Period		
The Applicant is required to conduct a Preliminary Comment Period for 20 business days.	5.1 Preliminary Comment Period	5-A Consultation Summary Report
The purpose of the comment period is to gather initial input from the community, public and stakeholders to review and comment on the proposed project and the scope and nature of proposed studies intended to be submitted as part of a complete application to VFPA.		

VFPA Checklist Requirements	Permit Application Section	Attachment
<p>Launch of the Preliminary Comment Period is subject to VFPA review and approval. VFPA will discuss with the Applicant the appropriate launch date.</p>		
<p>The Preliminary Comment Period cannot start until all public and stakeholder notification activities have been completed including completion of mail-drop, running of newspaper advertisement, mailing and emailing of public stakeholder notifications and operational complete project website.</p>		
<p>Some activities may be completed ahead of the actual launch date, but the commencement date cannot be counted until all described activities above have been completed or implemented.</p>		
<p>For further information, please review VFPA's Public Consultation Guideline, available online at: www.portvancouver.com/development-and-permits/project-and-environmental-reviews/technical-guidelines/</p>		
<p>Comment from VFPA: See Public Consultation Guidelines for list of materials required to be submitted as part of Preliminary Comment Period</p>		
<p>Preliminary Stakeholder Consultation</p>		
<p>During the Preliminary Comment Period the Applicant will conduct preliminary stakeholder consultation activities as required by VFPA.</p>	<p>5.1 Preliminary Comment Period</p>	<p>5-A Consultation Summary Report</p>
<p>The Applicant is required to submit drafts of the following materials at least 20 business days prior to the start of the Preliminary Comment Period, for VFPA review and approval:</p>		
<p>- Draft of Stakeholder Notification Letter</p>		
<p>- Draft email text for stakeholder notifications</p>		
<p>The following stakeholders should be identified in the Preliminary Comment Period Consultation Plan and be sent a notification letter by the Applicant during the Preliminary Comment Period:</p> <ol style="list-style-type: none"> 1. Adjacent tenants 2. Adjacent Municipalities or governments 3. Local Health Authorities 4. Other agencies 5. Marine user groups. 		

VFPA Checklist Requirements	Permit Application Section	Attachment
VFPA may revise the list of stakeholders upon review of submitted preliminary comment period materials. Should the Applicant wish to distribute to a wider stakeholder audience, identify additional stakeholders in the Preliminary Comment Period Public Consultation Plan		
For further information, please review VFPA's Stakeholder Consultation Guideline, available online at: www.portvancouver.com/development-and-permits/project-and-environmental-reviews/technical-guidelines/		
Completion of Preliminary Period		
Upon completion of the preliminary comment period, the Applicant is required to submit the following: <ul style="list-style-type: none"> - Preliminary Comment Period Public Engagement Summary Report - Preliminary Comment Period Consideration Memo - Additional information as required by VFPA. 	5.1 Preliminary Comment Period	5-A Consultation Summary Report
VFPA will review the documents along with comments sent directly to VFPA and determine if any revisions are required to the Application Submission Requirements for the proposed project.		
VFPA will confirm with the Applicant if any revisions are required. Should revisions be required, VFPA will discuss with the Applicant anticipated changes prior to issuing a revised Application Submission Checklist.		
Preliminary Aboriginal Outreach		
The Applicant is required to work with VFPA in the implementation of preliminary outreach to Aboriginal Groups.	6.0 Indigenous Engagement	6-A Indigenous Engagement Summary
VFPA will advise the Applicant on the scope and nature of preliminary outreach to Aboriginal groups.		
Section 6: Application Review Consultation Requirements		
Aboriginal Groups		
The proposed project will be assessed to determine whether any part of the proposed work has the potential to impact Aboriginal rights.	6.0 Indigenous Engagement	6-A Indigenous Engagement Summary
Confirmation of the requirement for Aboriginal Consultation will be provided upon acceptance and review of your complete Project Application.		
Provide all records of previous information sharing activities, agreements, or other interactions with Aboriginal groups with respect to the proposed Project.		

VFPA Checklist Requirements	Permit Application Section	Attachment
<p>Provide information of any known Aboriginal interests in the Project Area.</p> <p>For further information, please review VFPA's Aboriginal Consultation - Information of Applicants, available online at: www.portvancouver.com/development-and-permits/project-and-environmental-reviews/technical-guidelines/</p>		
Stakeholders		
<p>VFPA may revise the list of stakeholders upon acceptance and review of a complete application</p> <p>The proposed Project may have an impact on stakeholder interests. The following stakeholder notification and consultation will be led by VFPA during application review phase with the involvement of the Applicant at the request of VFPA (responding to stakeholders, attending meetings, etc.):</p> <ul style="list-style-type: none"> - Adjacent tenants - Adjacent Municipalities or governments - Other Agencies - Marine user groups 	5.2 Planned Consultation during Application Review	5-A Consultation Summary Report
Public		
<p>The proposed Project may have an impact on adjacent community interests. The type of consultation activities that are required to be led by the Applicant for this project includes:</p> <ol style="list-style-type: none"> 1. Public Notification 2. Public Consultation for 20 business days period (after the submission of a complete application) and includes in-person meetings, small group meetings, public notifications, website and online outreach. 	5.1 Preliminary Comment Period	5-A Consultation Summary Report
<p>Depending on the scope, public interest and potential impacts to the surrounding community, additional consultation activities may be required during the application review phase.</p> <p>For further information, please review VFPA's Public Consultation Guideline, available online at: www.portvancouver.com/development-and-permits/project-and-environmental-reviews/technical-guidelines/</p> <p>Comment from VFPA: VFPA may require a Final Comment Period upon review of consultation results</p>		

VFPA Checklist Requirements	Permit Application Section	Attachment
Public Consultation Materials		
<p>The following list of items provides the minimum public consultation requirements in the PER process.</p>	<p>5.2 Planned Consultation during Application Review</p>	<p>5-A Consultation Summary Report</p>
<p>All materials must be reviewed, approved and received by VFPA in final form prior to distribution to the public and the commencement of any comment or consultation period.</p>		
<p>The Applicant is required to submit drafts of the following upon submission of a complete application:</p> <ul style="list-style-type: none"> - Public Consultation Plan (May revise from Preliminary Comment Period) - Project website text and online information - Draft text of emails to existing list - Newspaper Advertisement copy - Map or description of mail drop area - Public notification letters - Discussion guide - Feedback form - Display and presentation boards - Coloured renderings, schematics or other visual representations of the Project - Other materials proposed to be used (videos, brochures) 		
Completion of Consultation		
<p>Upon completion of public consultation, the Applicant is required to submit the following:</p> <ul style="list-style-type: none"> - Public Consultation Summary Report - Consideration Memo - Additional information as required by VFPA 		<p>5-A Consultation Summary Report 5-B Input Consideration Memo</p> <p>Draft documents¹:</p> <ul style="list-style-type: none"> • Public Consultation Plan • Application Review Public Commercial Period – Notifications • Application Review Public Commercial Period – Notification Materials – web content • Application Review Public Commercial Period – Open House Materials

¹ These five documents will be provided separately to the PER Application for VFPA input.

VFPA Checklist Requirements	Permit Application Section	Attachment
		<ul style="list-style-type: none"> Application Review Public Commercial Period – Online Survey
VFPA will review the documents along with comments sent directly to VFPA and determine if a Final Comment Period may be required		
VFPA will confirm with the Applicant if a Final Comment Period is required during the application review phase.		
Draft Construction Communications Plan		
The proposed Project may have an impact on the adjacent community during the construction period, and therefore the applicant is required to notify area residents and the municipality prior to construction.	5.3 Planned Communication during Construction	Draft Construction Communications Plan ²
The draft Plan should include a brief description of the proposed Project, background, construction timelines, considerations and challenges, engagement objectives, key audiences and stakeholders, key messages, contact information and public stakeholder notification activities prior to construction. Also include a map of the notification area and mechanism to receive feedback and respond to/resolve issues during construction		
Submission of a final plan will be required at a later date determined by VFPA.		
For further information, please review VFPA's Public Consultation Guideline, available online at: www.portvancouver.com/development-and-permits/project-and-environmental-reviews/technical-guidelines/		

² The draft construction communications plan will be provided separately to the PER Application for VFPA input.

Table 2: Construction Project and Environmental Review Application Submission Requirements Drawing Table of Concordance

VFPA Checklist Requirements	Ausenco Drawing Number
Section 3: Drawing Requirements	
Location	
Plan showing the relationship of the proposed project to surrounding area at 1:5000 scale.	40600-LO-DWG-00135
Site Plan	
Lease and property boundaries, easements and right-of-ways.	40600-LO-DWG-00136, 40600-LO-DWG-00129
Legal high water mark where applicable.	40600-MA-DWG-00141
Location and dimensions of all existing and proposed buildings, structures, equipment and marine structures.	40600-LO-DWG-00129, 40600-ME-DWG-00167, 40600-ME-DWG-00168, 40600-CL-DWG-00149
Access points including roadways, driveways, parking areas, walkways, berths, gangways, docks.	40600-LO-DWG-00129
Area of construction staging/laydown area.	40600-LO-DWG-00129
Buildings Structures and Equipment	
Elevations of front, rear and two sides with dimensions.	40600-ST-DWG-00110, 40600-ST-DWG-00112, 40600-ST-DWG-00113, 40600-ST-DWG-00115, 40600-ST-DWG-00116, 40600-ST-DWG-00118, 40600-ST-DWG-00120, 40600-ST-DWG-00122, 40600-ST-DWG-00132, 40600-ST-DWG-00134
Floor levels and height above and below finished grades.	40600-ST-DWG-00110, 40600-ST-DWG-00111, 40600-ST-DWG-00112, 40600-ST-DWG-00113, 40600-ST-DWG-00114, 40600-ST-DWG-00115, 40600-ST-DWG-00116, 40600-ST-DWG-00118, 40600-ST-DWG-00120, 40600-ST-DWG-00122, 40600-ST-DWG-00132, 40600-ST-DWG-00134
Building floor plans of all storeys including door, window and skylight locations.	40600-ST-DWG-00111, 40600-ST-DWG-00114, 40600-ST-DWG-00115, 40600-ST-DWG-00117, 40600-ST-DWG-00119, 40600-ST-DWG-00121, 40600-ST-DWG-00123, 40600-ST-DWG-00133, 40600-ST-DWG-00143
Roof plans with dimensions and elevations of roof parapet, mechanical and elevator/stair housing.	40600-ST-DWG-00111, 40600-ST-DWG-00114, 40600-ST-DWG-00115, 40600-ST-DWG-00117, 40600-ST-DWG-00119, 40600-ST-DWG-00121, 40600-ST-DWG-00123, 40600-ST-DWG-00133, 40600-ST-DWG-00143
Finishing details and materials.	40600-ST-DWG-00110, 40600-ST-DWG-00112, 40600-ST-DWG-00113, 40600-ST-DWG-00114, 40600-ST-DWG-00115, 40600-ST-DWG-00116, , 40600-ST-DWG-00117, 40600-ST-DWG-00118, 40600-ST-DWG-00119, 40600-ST-DWG-00120, 40600-ST-DWG-00121, 40600-ST-DWG-00122, 40600-ST-DWG-00123, 40600-ST-DWG-00132, 40600-ST-DWG-00133, 40600-ST-DWG-00134, 40600-ST-DWG-00143

VFPA Checklist Requirements	Ausenco Drawing Number
Excavation depths anticipated (receiving pits, foundations, trenches for utilities etc.) including depth of excavation required to construct any below ground infrastructure.	40600-CL-DWG-00149
Include signage information for what is proposed (location, dimensions and lighting details).	Signage at this stage has not been proposed and will be provided as part of the building permit.
Information on site loading for foundation design criteria and any other anticipated loads.	Details on this are provided in the geotechnical report (Attachment 4.1-B of the PER Application).
Comment from VFPA: Demonstrate that loading imposed by proposed shiploader does not exceed capacity of existing wharf structure	Details on this are provided in the geotechnical report (Attachment 4.1-B of the PER Application).
Marine Structures	
Site plan specific to proposed marine works only. Identify existing marine structures and those intended to be removed or relocated or will be impacted (e.g. storm water outfall impacted by rip rap placement)	40600-MA-DWG-00139
Dimensions and cross sections of front, rear and two sides of proposed marine structures including dolphins, piles, docks, piers, gangways, floats, fenders, bollards, rip rap, navigational lighting, navigation aids, ranges, dredging channels, dams and areas to be filled etc.	40600-MA-DWG-00139 40600-MA-DWG-00140 40600-MA-DWG-00141
Dimensions and characteristics of proposed materials.	40600-MA-DWG-00141
Structures in relation to the tidal Higher High Water and Lower Low Water lines including water depth	40600-MA-DWG-00141
Plan of proposed dock facility to include location and SWL of mooring securing points.	40600-MA-DWG-00158
Confirm the design vessel (max size that can be accommodated) at the berths on the plans.	40600-MA-DWG-00141
Comment from VFPA: Provide plans of proposed seismic upgrade of existing wharf structure, showing seismic design criteria.	40600-MA-DWG-00141
Lot Grading and Utilities	
Separate plans showing existing and proposed utilities.	40600-CL-DWG-00137 (existing) 40600-CL-DWG-00138 (proposed)
Lot grading plan showing existing/proposed paving and drainage. Separate to two plans if required for clarity.	40600-CL-DWG-00142
Note that oil/grit/water separators are required to be included as part of site storm water collection.	40600-CL-DWG-00138
Discrete site plan showing existing/proposed fire hydrants and emergency vehicle access routes.	40600-CL-DWG-00144

VFPA Checklist Requirements	Ausenco Drawing Number
Proposed service connections to utilities or systems (water, sewer, storm water, power, gas), both above and below ground.	40600-CL-DWG-00137 (existing) 40600-CL-DWG-00138 (proposed) 40600-EL-DWG-00151 (electrical)
Provide written confirmation of which other authorities or jurisdictions will need to provide consent or conduct works to establish connections to utilities and confirmation that capacity exists within those 3rd party networks.	This will be provided prior to submission.
The Applicant is responsible for location of all existing utilities. VFPA will provide known utility information, but location of buried utilities must be confirmed by applicant.	N/A
Lighting Plan	
Lighting shown on the site plan for all proposed exterior lighting including the location, type of bulbs, orientation and level of illumination on the ground.	40600-EL-DWG-00101, 40600-EL-DWG-00103, 40600-EL-DWG-00104, 40600-EL-DWG-00151, 40600-EL-DWG-00152, 40600-EL-DWG-00153, 40600-EL-DWG-00155
For further information, please review VFPA's Lighting Guideline, available at: www.portvancouver.com/development-and-permits/project-and-environmental-reviews/technical-guidelines/	N/A
Parking and Access	
Widths of proposed roadways and driveways	40600-CL-DWG-00144
Dimensions of maneuvering areas including turning radii	40600-CL-DWG-00144
Proposed employee and/truck parking area with dimensioned and numbered parking stalls.	40600-LO-DWG-00129
Typical cross sections and proposed grades of all streets, and details of curbs, gutters sidewalks, and other improvements.	40600-LO-DWG-00129
Fire access routes or lanes to be shown on a site plan.	40600-CL-DWG-00144
Comment from VFPA: Hydrants to be shown with dimensioned fire truck access route	40600-CL-DWG-00144
Rail	
Existing and proposed rail tracks, switches and other associated rail works (both on and off site to support the proposed development).	40600-LO-DWG-00145 (existing) 40600-LO-DWG-00146 (proposed) 40600-LO-DWG-00147 (proposed + other rail)
Provide name/number for each track shown on plans; ideally show rail plans with orthophoto overlay and lease boundaries depicted	40600-LO-DWG-00145 (existing) 40600-LO-DWG-00146 (proposed) 40600-LO-DWG-00147 (proposed + other rail)

Table 3: Construction Project and Environmental Review Application Submission Requirements Drawing List

Drawing Number	Description
40600-LO-DWG-00135	Area Plan 1:5000 scale
40600-LO-DWG-00136	Lease and Boundary Drawing
40600-ST-DWG-00132	Storage Building Elevations
40600-ST-DWG-00143	Storage Building Floor Plan
40600-ST-DWG-00143	Storage Building Roof Plan
40600-ST-DWG-00132	Storage Building Finishing Details
40600-ST-DWG-00110	Transfer Tower 1 GA and Elevations
40600-ST-DWG-00111	Transfer Tower 1 Floor Plans
40600-ST-DWG-00111	Transfer Tower 1 Roof Plan
included in notes on 110 and 111	Transfer Tower 1 Finishing Details
40600-ST-DWG-00112 / 40600-ST-DWG-00113	Transfer Tower 2 GA and Elevations
40600-ST-DWG-00114	Transfer Tower 2 Floor Plans
40600-ST-DWG-00114	Transfer Tower 2 Roof Plan
included in notes on 112, 113 and 114	Transfer Tower 2 Finishing Details
40600-ST-DWG-00115	Transfer Tower 3 GA and Elevations
40600-ST-DWG-00115	Transfer Tower 3 Floor Plans
40600-ST-DWG-00115	Transfer Tower 3 Roof Plan
included in notes on 115	Transfer Tower 3 Finishing Details
40600-ST-DWG-00116	Transfer Tower 4 GA and Elevations
40600-ST-DWG-00117	Transfer Tower 4 Floor Plans
40600-ST-DWG-00117	Transfer Tower 4 Roof Plan
included in notes on 116 and 117	Transfer Tower 4 Finishing Details
40600-ST-DWG-00118	Electrical Room 1 GA and Elevations
40600-ST-DWG-00119	Electrical Room 1 Floor Plan
40600-ST-DWG-00119	Electrical Room 1 Roof Plan
included in notes on 118 and 119	Electrical Room 1 Finishing Details
40600-ST-DWG-00120	Electrical Room 2 GA and Elevations
40600-ST-DWG-00121	Electrical Room 2 Floor Plan
40600-ST-DWG-00121	Electrical Room 2 Roof Plan
included in notes on 120 and 121	Electrical Room 2 Finishing Details
40600-ST-DWG-00122	Electrical Room 3 GA and Elevations
40600-ST-DWG-00123	Electrical Room 3 Floor Plan
40600-ST-DWG-00123	Electrical Room 3 Roof Plan
included in notes on 122 and 123	Electrical Room 3 Finishing Details

Drawing Number	Description
40600-ST-DWG-00134	Dumper Building GA and Elevations
40600-ST-DWG-00133	Dumper Building Floor Plan
40600-ST-DWG-00133	Dumper Building Roof Plan
included in notes on 133 and 134	Dumper Building Finishing Details
40600-MA-DWG-00139	Marine structures - Elevations - Sheet 1
40600-MA-DWG-00139	Marine structures - Elevations - Sheet 2
40600-MA-DWG-00140	Navigation Aids and Lighting
40600-MA-DWG-00140	Navigation Channel and Ranges
40600-MA-DWG-00141	Fenders
N/A No Catwalk exists	Catwalk
40600-CL-DWG-00137	Existing Utilities
40600-CL-DWG-00138	Proposed Utilities
40600-CL-DWG-00142	Grading plans
40600-CL-DWG-00142	Site plan showing existing/proposed fire hydrants
40600-CL-DWG-00144	Emergency vehicle access routes.
40600-LO-DWG-00145	New Rail tracks and switches
40600-LO-DWG-00146	Existing Rail
40600-LO-DWG-00147	Other Rail
40600-LO-DWG-00129	Site plan and laydown area
40600-PE-DWG-00150	Process flow diagram
40600-ME-DWG-00167	Pit conveyor, stacking conveyor and storage feed conveyor plans
40600-ME-DWG-00168	Reclaim conveyor, outfeed conveyor and unloading conveyor plans
40600-MA-DWG-00158	Deck plan
40600-LO-DWG-00156	Muster station locations
40600-EL-DWG-00104	Shiploader and lighting plan
40600-EL-DWG-00151	Electrical plan
40600-EL-DWG-00152	Site lighting plan
40600-EL-DWG-00153	Dumper pit conveyor and storage feed conveyor lighting plans
40600-EL-DWG-00155	Existing and planned site lighting