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SEPA DETERMINATION OF NONSIGNIFICANCE

DESCRIPTION OF PROPOSAL: The proposed project is to replace two existing compressors with one new compressor at the existing Alkylation (Alky) Unit (Compressor Replacement Project). The existing compressors have reached "end-of-life" conditions and replacement is necessary to maintain reliability and availability of the compressor system. The modification includes adding a new compressor and steam turbine; demolishing or abandoning in place the two existing compressors; replacing the existing Acid Blowdown Drum; installing a lubrication system, a controls system, and pipe rack.

PROPONENT: Tesoro Refining & Marketing Company LLC

LOCATION: 10200 W March Point Road, Anacortes, WA (Skagit County)

LEAD AGENCY: Northwest Clean Air Agency (NWCAA)

The lead agency for this proposal has determined that it does not have a probable significant adverse impact on the environment. An Environmental Impact Statement (EIS) is not required under NWCAA 155. This decision was made after review of a completed environmental checklist and other information on file with the lead agency. This information is available to the public on request.

- There is no comment period for this Determination of Nonsignificance (DNS).
- This DNS is issued under NWCAA 155. The NWCAA will not act on this proposal for 14 days from the date below.

RESPONSIBLE OFFICIAL: Mark Asmundson

POSITION/TITLE: Executive Director **PHONE:** (360) 428-1617

ADDRESS: Northwest Clean Air Agency
1600 South Second Street
Mount Vernon, WA 98273-5202

Signature: 

Date: September 22,
2016



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SEPA Environmental Checklist

WAC 197-11-960

I: PURPOSE OF CHECKLIST [\[help\]](#)

The State Environmental Policy Act chapter [43.21C](#) RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the agency identify impacts from your proposal (and to reduce or avoid impacts from the proposal) and to help the agency decide whether an EIS is required.

II: INSTRUCTIONS FOR APPLICANTS [\[help\]](#)

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring preparation of an EIS. Answer the questions briefly, with the most precise information known, or give the best description you can.

You must answer each question accurately and carefully, to the best of your knowledge. In most cases, you should be able to answer the questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write "do not know" or "does not apply." Complete answers to the questions now may avoid unnecessary delays later.

Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the governmental agencies can assist you.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

A: BACKGROUND

1. Name of proposed project, if applicable: Alkylation (Alky) Compressor Replacement Project

2. Name of applicant: Tesoro Refining & Marketing Company LLC Applicant email: lester.w.keel@tsocorp.com

3. Applicant address: 10200 West March Point Road

City: Anacortes State: WA Zip: 98221

Contact person: Lester Keel Applicant phone: (360) 293-1601

4. Date checklist prepared: Jun 10, 2016 5. Agency requesting checklist: Northwest Clean Air Agency

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

It is estimated that construction will commence in January 2017, contingent on air permit issuance. Tesoro expects that construction will be completed and the new compressor will be operational by March 2018.

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

Yes No. If yes, explain.

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

None.

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? Yes No. If yes, explain.

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

NWCAA Notice of Construction (NOC) Approval Permit
Skagit County Building 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.)

Tesoro is proposing replacement of two existing compressors with one new compressor at its existing Alkylation Unit (Alky). The existing compressors have reached "end-of-life" conditions and replacement is necessary. The new compressor and steam turbine driver will operate with improved efficiency compared to the existing compressor system. The new compressor will result in a small increase in alkylate production. Refer to NOC application for details.

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.

Tesoro Refining and Marketing Company is located on March Point, Fidalgo Island, in Section 28, TWP 35N, Range 2E, W.M., Skagit County, Washington. The Project will be contained within the refinery fence-line boundary. Refer to Figure 1 - Site Plan and Figure 2 - Vicinity and Topographic Map in Attachment 1 for the location of the proposed Project and the Project area.

B: ENVIRONMENTAL ELEMENTS

1. EARTH

a. General description of the site Flat Rolling Hilly Steep Slopes Mountainous

Other The Project is within the facility boundary which is flat. The facility is located on a peninsula with gentle slopes.

b. What is the steepest slope on the site (approximate percent slope)? Approximately 5.5% on the refinery property.

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 agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

The Natural Resources Conservation Service (NRCS) Web Soil Survey classifies the soils in the Project area as Xerorthents. The NRCS data indicates the soils in the proposed Project area are not considered farmland.

d. Are there surface indications or history of unstable soils in the immediate vicinity? Yes No. If yes, describe.

None known or observed. A geotechnical study conducted in the vicinity of the proposed Project location established no history or evidence (URS 2005). No evidence of unstable soils was observed during a March 2012 site survey by CH2M Hill.

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

Minor grading may be required prior to construction for installation of the new equipment. Filling is not expected to be required, but fill materials would be supplied by a local permitted supplier if necessary.

f. Could erosion occur as a result of clearing, construction, or use? Yes No. If yes, generally describe.

If soil is exposed during construction, erosion could take place. Proper construction and Best Management Practices (BMPs) including covering of stockpiles would be implemented to control and minimize any short-term erosion.

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

The new compressor and steam turbine will be installed on an existing paved area; therefore, no new impervious area will be created as a result of the project.

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

Develop and implement appropriate BMPs to control erosion during construction; monitor roads serving the construction area for soil deposits from grading activities, and cover any stockpile materials with plastic to minimize erosion potential.

2. AIR

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

During construction, emissions will consist of exhaust from intermittent welding and use of heavy machinery. Following completion, the project does not cause an increase in emissions relative to current equipment. This is possible because the new compressor is replacing two less-efficient compressors. Refer to NOC application for further details.

b. Are there any offsite sources of emissions or odor that may affect your proposal? Yes No. If yes, generally describe.

There are no anticipated off-site emissions associated with the Project.

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

During construction, all applicable equipment will be fitted with required muffler systems. Dust control methods will be employed as necessary. New components will be incorporated into the refinery's leak detection and repair (LDAR) program. These controls comply with minor New Source Review (NSR) level Best Available Control Technology (BACT).

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)? Yes No. If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

Fidalgo Bay and Padilla Bay are marine waterbodies that surround the refinery.

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? Yes No. If yes, please describe and attach available plans.

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. No fill material would be placed within any surface water features.

4) Will the proposal require surface water withdrawals or diversions? Yes No. Give general description, purpose, and approximate quantities if known.

5) Does the proposal lie within a 100-year flood plain? Yes No. If yes, note location on the site plan. No; the Project will be constructed outside of the Skagit County Flood Hazard Area, which runs along the shoreline of Fidalgo Bay.

6) Does the proposal involve any discharges of waste materials to surface waters? Yes No. If yes, describe the type of waste and anticipated volume of discharge. No; rainwater runoff will flow to the refinery wastewater system. The proposed Project will not result in any significant changes to runoff volumes

b. Ground

1a) Will groundwater be withdrawn from a well for drinking water or other purposes? Yes No. If yes, give a general description of the well, proposed uses and approximate quantities withdrawn from the well?

1b) Will water be discharged to groundwater? Yes No. If yes, give general description, purpose, and approximate quantities if known.

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals...; 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. No waste will be discharged into the ground in relation to this Project.

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? Yes No. If yes, describe.
Construction of this project will not increase the amount of runoff or change the runoff characteristics as equipment is being installed in an existing paved area. All storm water will continue to be collected and discharged via the refinery's permitted, National Pollutant Discharge Elimination System (NPDES) storm water system.

2) Could waste materials enter ground or surface waters? Yes No. If yes, generally describe.
It is unlikely that waste materials would enter ground or surface waters from any of the Project components. There will be no waste materials stored in locations such that they may enter ground or surface waters.

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? Yes No. If yes, describe.

d. Proposed measures to reduce or control surface, ground, runoff water, and drainage pattern impacts, if any.
All stormwater will continue to be managed in accordance with the refinery's NPDES permit.

4. PLANTS

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

- Deciduous tree: Alder, maple, aspen, other
- Evergreen tree: Fir, cedar, pine, other
- Shrubs
- Grass
- Pasture
- Crop or grain
- Orchards, vineyards or other permanent crops.
- 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, Project site is located on developed refinery land.

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

No threatened or endangered species are known to be on or near the site. None were identified during previous surveys associated with past projects.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any.
There are no proposed landscaping measures regarding this project, as it will be taking place on already cleared/paved refinery property.

e. List all noxious weeds and invasive species known to be on or near the site.

There are no noxious weeds or invasive species known to be on or near the proposed Project area.

5. ANIMALS

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

Examples include:

- Birds:** Hawk Songbirds
 Heron Other Seagulls, Black Brant, and Caspian Tern
 Eagle
-
- Mammals:** Deer Elk
 Bear Other Harbor seal, rabbits, otters, and raccoons
 Beaver
-
- Fish:** Bass Shellfish
 Herring Trout
 Salmon Other Forage fish, surface smelt, and Pacific San Lance
-

b. List any threatened and endangered species known to be on or near the site.
Please refer to Attachment 2 for a description of any threatened and endangered species known to be on or near the site.

c. Is the site part of a migration route? Yes No. If yes, explain.
The Pacific Flyway extends from the North American Pacific coast east to the Rocky Mountains. All of Washington, including this site, lies within this Flyway for migratory birds. Previous SEPA checklists prepared for past projects at Tesoro state that "waterfowl migrate through the area" and that "waterfowl concentrations are found in Padilla and Fidalgo Bays" (URS 2008).

d. Proposed measures to preserve or enhance wildlife, if any.
The proposed project is not expected to impact wildlife known to be near the Project location and therefore no measures are proposed or required.

e. List any invasive animal species known to be on or near the site.
No invasive animal species are known to be on or near the Project area.

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.
The new compressor will be powered by a new steam turbine. No increase in steam demand will result, as the new compressor is more efficient than the equipment it is replacing. The project will result in more economical use of existing steam generation at the refinery and may reduce steam venting. New controls will require electricity.

b. Would your project affect the potential use of solar energy by adjacent properties? Yes No.
If yes, generally describe.

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.
All pumps, motors, electrical equipment and process technology equipment would include energy efficient motors.

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? Yes No. If yes, describe.

The existing refinery health, safety, and emergency response programs are able to accommodate the proposed project.

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

No known or possible contamination from present or past uses are located within the proposed project area.

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.

Please refer to Attachment 3 for a description of any hazardous chemicals/condition that might affect the project development and design.

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.

None.

4) Describe special emergency services that might be required.

Special emergency services are not expected to be required as a result of this project.

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

Established procedures required by OSHA and WISHA will be followed.

b. Noise

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

None; other than those created by existing refinery operations.

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.

During construction there may be a temporary increase in noise associated with construction activities. Long-term noise levels are not expected to increase beyond current noise levels from existing refinery operations as a result of the project.

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

Construction equipment would be equipped with operating mufflers. No other measures are proposed during operation.

8. LAND AND SHORLINE 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? Yes No. If yes, describe.

The proposed project is within an operating oil refinery. Areas of the refinery property are leased to an adjacent property owner for cattle grazing and seasonal haying. Residential properties are located on March Point south of the project area.

b. Has the project site been used as working farmlands or working forest lands? Yes No. If yes, 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 non-forest use?

Previous studies indicate that the property was used for agricultural purposes prior to construction of the refinery in the 1950s. The proposed project area consists of already developed land within the refinery.

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

The proposed project will not affect or be affected by surrounding working farms or forest land's normal business operations.

c. Describe any structures on the site.

Structures on site include refinery operating equipment, tank farm, offices and support buildings. There are railroad tracks along the western property boundary. There are also pipes located within an easement, which belong to the refinery located to the south of Tesoro's property.

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

The two existing compressors and associated appurtenances will either be demolished or abandoned in placed as part of the project.

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

The City of Anacortes zoning for the area is Heavy Manufacturing (HM). The Skagit County zoning for the area is Anacortes Urban Development District (A-UD).

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

The City of Anacortes comprehensive plan designation is HM. The Skagit County comprehensive plan designation for the area is A-UD.

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

The City of Anacortes Shoreline Master Program (Sept. 2010) designates the shoreline area from Highway 20 to North Texas Road as a Conservancy shoreline. The Skagit County shoreline designation for the north and west shoreline areas is Urban.

h. Has any part of the site been classified critical area by the city or county? Yes No. If yes, specify.

Fidalgo Bay, located west of the Project area is considered "environmentally sensitive". The ditches that drain the Project site to Fidalgo Bay are located in areas that were developed as part of the refinery facilities.

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

None; no new staff would be added as a result of the completed project.

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

None; the Project is taking place on previously developed refinery property.

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

Does not apply.

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

The proposed project is consistent with both Skagit County and Anacortes existing and planned land uses. The proposed project is an industrial project. Current zoning permits this type of use.

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

Does not apply. The proposed project is entirely surrounding by existing refinery operations.

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.
Does not apply.

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?
The tallest height of any proposed structure is the 55 feet for the new Rundown Tank. Principal building material is steel. However, none of the components being installed as part of the Project will increase the height of the existing structures.

b. What views in the immediate vicinity would be altered or obstructed?
No new views would be obstructed. The Project is located entirely within the existing refinery fence-line, and the height of the new unit(s) does not exceed the height of any existing units.

c. Proposed measures to reduce or control aesthetic impacts, if any.
None are proposed. If any landscaping requirements are identified as conditions of the project permit approvals or Skagit County Code, Tesoro will comply.

11. LIGHT AND GLARE

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?
No additional light would be created beyond what light is already generated as part of general refinery operation.

b. Could light or glare from the finished project be a safety hazard or interfere with views?
No, there is existing lighting from the refinery and associated traffic.

c. What existing offsite sources of light or glare may affect your proposal?
None.

d. Proposed measures to reduce or control light and glare impacts, if any.
None are proposed.

12. RECREATION

a. What designated and informal recreational opportunities are in the immediate vicinity?
Fidalgo Bay lies immediately west and Padilla Bay lies to the north of the Project site. Both are used for recreational purposes crabbing and fishing. The Tommy Thompson Parkway is located south and west of the Project site and crosses Fidalgo Bay.

b. Would the proposed project displace any existing recreational uses? Yes No. If yes, describe.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any.
None are proposed.

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? Yes No. If yes, specifically describe. Background research was previously conducted through the National Historic Landmarks and the research showed no places or objects, listed or proposed, within the Project area. A past search of the Washington State DAHP website showed no places or website showed no places or objects within the Project area.

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? No landmarks, features or other evidence of Indian or historic use or occupation are located within the Project area. However, please refer to Attachment 4 for more details on evidence of historical sites, artifacts and homestead sites.

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. Cultural and historic resource assessments were conducted through the National Historic Landmarks, List of Sites website as part of past projects on Tesoro property. The Washington State DAHP website was also searched.

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. Since the Project area is within the refinery fence-line, the Munk's Homestead will not be impacted by the Project.

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 Project site can be accessed via State Route 20 to the south of the refinery and West March Point Road. through Gate 14 (Figure 2 - Vicinity and Topographic Map).

b. Is the site or affected geographic area currently served by public transit? Yes No. If yes, generally describe. If no, what is the approximate distance to the nearest transit stop? Tesoro is not served by public transit. The March Point Park and Ride lot is located approximately 3 miles south of the Project site.

c. How many additional parking spaces would the completed project proposal have? How many would the project or proposal eliminate? None.

d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? Yes No. If yes, generally describe (indicate whether public or private). No new roads or existing road improvements will be performed as part of this Project.

e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? Yes No.
If yes, generally describe.

The proposed project is adjacent to the existing private railroad owned by Tesoro. Additionally, the Anacortes Airport, Skagit Regional Airport, and the Washington State Ferry Terminal within 5 miles of the proposed project area.

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?

No consistent vehicular traffic would be generated as a result of the completion of the Project.

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? Yes No. If yes, generally describe.

Does not apply.

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

Does not apply.

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)? Yes No. If yes, generally describe.

The existing fire and emergency medical services provided by Tesoro at the refinery that would not require any increase in services. Fire and emergency medical services provided by the City of Anacortes would not require an increase in services.

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

None are proposed. Tesoro will continue with emergency response training.

16. UTILITIES

a. Check utilities currently available at the site: Electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other. Electricity Refuse service Septic system

Natural gas Telephone Other Steam

Water Sanitary sewer

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.

Steam usage rates at the Alky will decrease as a result of the project. No quantifiable changes in electrical usage are expected, which is provided by Puget Sound Energy.

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.

Lester Keel

Applicant name or authorized representative



Signature

Date

6-22-2016

SEPA Attachment 1 – A(12.) Figure 1 - Site Plan and Figure 2 - Vicinity and Topographic Map

Barr Footer ArcGIS 10.3.1, 2016-01-22 11:57 File: I:\Projects\4708\1001\Maps\Reports\Phase_N\Figure 2 - Vicinity and Topography Map.mxd User: jrv



 Project Area
 10-Foot Contours (NOAA)



Feet
1,500 0 1,500




Figure 2

VICINITY AND TOPOGRAPHY
Alky Compressor Replacement Project
Tesoro Refining & Marketing
Company LLC
Anacortes, Washington

SEPA Attachment 2 – B(5.)(b.) Threatened and Endangered Species Description

Preliminary Priority Habitat Species (PHS) information from the Washington Department of Fish and Wildlife (WDFW) indicates the presence of a bald eagle's nest located approximately 1,500 feet northwest of the Project site; another bald eagle nest is located about 2,700 feet southeast of another possible bald eagle's nest. Bald eagles are listed by the state of Washington as a Sensitive species, with a Federal listing as a Species of Concern. Eagle habitat is listed as a priority for breeding and roosting.

The construction and operation of the proposed project would not result in any effects on the nests. The area already experiences heavy human traffic activity from West March Point Road (located adjacent to the nest location), the employee parking lot, and existing refinery operations.

Fidalgo Bay is listed as a forage fish habitat by the WDFW. The onsite ditches are not fish bearing, and the outfalls to Fidalgo Bay do not provide passage or direct access to the bay. In addition, WDFW priority habitat information indicates the presence of a harbor seal haul out area and Dungeness Crab habitat area in Padilla Bay; however, the proposed project is not expected to have an effect given the distance of approximately 2,400 feet (0.5 miles) from these areas.

The PHS data indicates that heron rookeries are a priority for breeding. The Great Blue Heron has a criteria 2 listing. The rookery is located about 2 miles to the southeast of the intersection of North Texas Road and W. West March Point Road outside of the proposed Project area, well beyond the WDFW recommended buffers of between 820 feet and 3,280 feet depending on the type of activity proposed.

SEPA Attachment 3 – B(7.)(a.)(2) Description of Existing Hazardous Chemicals/Conditions that Might Affect Project Development and Design

New equipment is being installed adjacent to areas of the refinery that will be in operation. Constructing adjacent to operating equipment and pipes is commonly executed in the utility, petroleum and various other industries in a safe and responsible manner. Tesoro has strict procedures and practices that are followed to minimize risk to underground pipelines during construction. Tesoro maintains underground line drawings, uses the technique of *potholing* (whereby underground pipes are exposed to view by digging test holes), uses vacuum excavators to minimize the chance of excavation equipment contacting underground pipes, uses spotters and observers, develops construction work plans, and follows a strict work permit practice.

SEPA Attachment 4 – B(13.)(b.) Details Regarding the Evidence of Historical Sites, Artifacts and Homestead sites

A Cultural Resources Report prepared by ERCI in March 2010 documents the presence of previously discovered historical sites and the finding of two shell midden sites approximately 1 mile southwest of the Project area along the shoreline of Fidalgo Bay.

A Cultural Resources Report prepared by CH2M HILL in 2011 identified a very low quantity of low quality scattered historic artifacts (e.g., nails, glass fragments, door hinge) between Fidalgo Bay and West March Point Road and south of 8th Street and North of North Texas Road. The field study did not find any prehistoric sites or deposits.

A homestead site, the Munk's Homestead, is located approximately 2,500 feet southwest of the Project site. The site is not listed on the National Register of Historic Places for Skagit County.

New equipment is being installed adjacent to areas of the refinery that will be in operation. Constructing adjacent to operating equipment and pipes is commonly executed in the utility, petroleum and various other industries in a safe and responsible manner. Tesoro has strict procedures and practices that are followed to minimize risk to underground pipelines during construction. Tesoro maintains underground line drawings, uses the technique of potholing (whereby underground pipes are exposed to view by digging test holes), uses vacuum excavators to minimize the chance of excavation equipment contacting underground pipes, uses spotters and observers, develops construction work plans, and follows a strict work permit practice.