

Appendix I

HRA and Grette As-Built Reports

CULTURAL RESOURCES REPORT COVER SHEET

Author: Schultze, Carol, and Angus Raff-Tierney

Title of Report: Archaeological Monitoring Report for the Cornet Bay Marina Remediation Project, Whidbey Island, Island County, Washington

Date of Report: August 2014

County(ies): Island Section: 36Township: 34Range: 01E

Quad: Deception Pass Acres: <0.1

PDF of report submitted (REQUIRED) Yes

Historic Property Inventory Forms to be Approved Online? Yes No

Archaeological Site(s)/Isolate(s) Found or Amended? Yes No

TCP(s) found? Yes No

Replace a draft? Yes No

Satisfy a DAHP Archaeological Excavation Permit requirement? Yes # No

Were Human Remains Found? Yes DAHP Case # No

DAHP Archaeological Site #:

45IS333

- Submission of PDFs is required.
- Please be sure that any PDF submitted to DAHP has its cover sheet, figures, graphics, appendices, attachments, correspondence, etc., compiled into one single PDF file.
- Please check that the PDF displays correctly when opened.

Archaeological Monitoring Report for the Cornet Bay Marina
Remediation Project, Whidbey Island, Island County, Washington

Submitted to:
Kennedy Jenks Consultants

Submitted by:
Historical Research Associates, Inc.
Carol Schultze, PhD, RPA
Angus Raff-Tierney, MA

Seattle, Washington
August 2014



HISTORICAL
RESEARCH
ASSOCIATES, INC.

This report was prepared by HRA Principal Investigator Carol Schultze PhD, RPA, and Angus Raff-Tierney, MA, who meet the Secretary of the Interior's professional qualifications standards for archaeology. This report is intended for the exclusive use of the Client and its representatives. It contains professional conclusions and recommendations concerning the potential for project-related impacts to archaeological resources based on the results of HRA's investigation. It should not be considered to constitute project clearance with regard to the treatment of cultural resources or permission to proceed with the project described in lieu of review by the appropriate reviewing or permitting agency. This report should be submitted to the appropriate state and local review agencies for their comments prior to the commencement of the project.

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1. Introduction

Kennedy Jenks Consultants (KJC) is assisting with investigation and cleanup of environmental contamination at the Cornet Bay Marina. The Cornet Bay Marina Remediation Site is located along the shoreline of Whidbey Island, Washington, in Township 34 North, Range 1 East, Section 36 of the Willamette Meridian (Figure 1-1).

Kennedy Jenks Consultants' investigative work across the project area included excavation of dredge fill and native soil to a maximum depth of 16 feet (ft) (Kennedy Jenks 2013a). KJC contracted with Historical Research Associates, Inc. (HRA), to monitor the excavations in native soil for the potential of buried cultural deposits. This work took place between February and April of 2014.

Archival research showed that an old bulkhead present on site, which was to be removed by this project, was built just over 50 years ago (Kennedy Jenks 2013b). As such, it was recorded as a historic-era archaeological site (45IS333). Phone consultations with Gretchen Kaehler of the Department of Archaeology and Historic Preservation (DAHP) and Ty Schreiner of KJC resulted in an agreement that the bulkhead is not eligible for inclusion in the National Register of Historic Places (NRHP). As such, it was removed after being documented by HRA. Additionally, isolated historic-era bottles and cans were noted, but lacked integrity and were not recorded.

No other archaeological or cultural materials were found during monitoring. No additional cultural resources work is recommended.

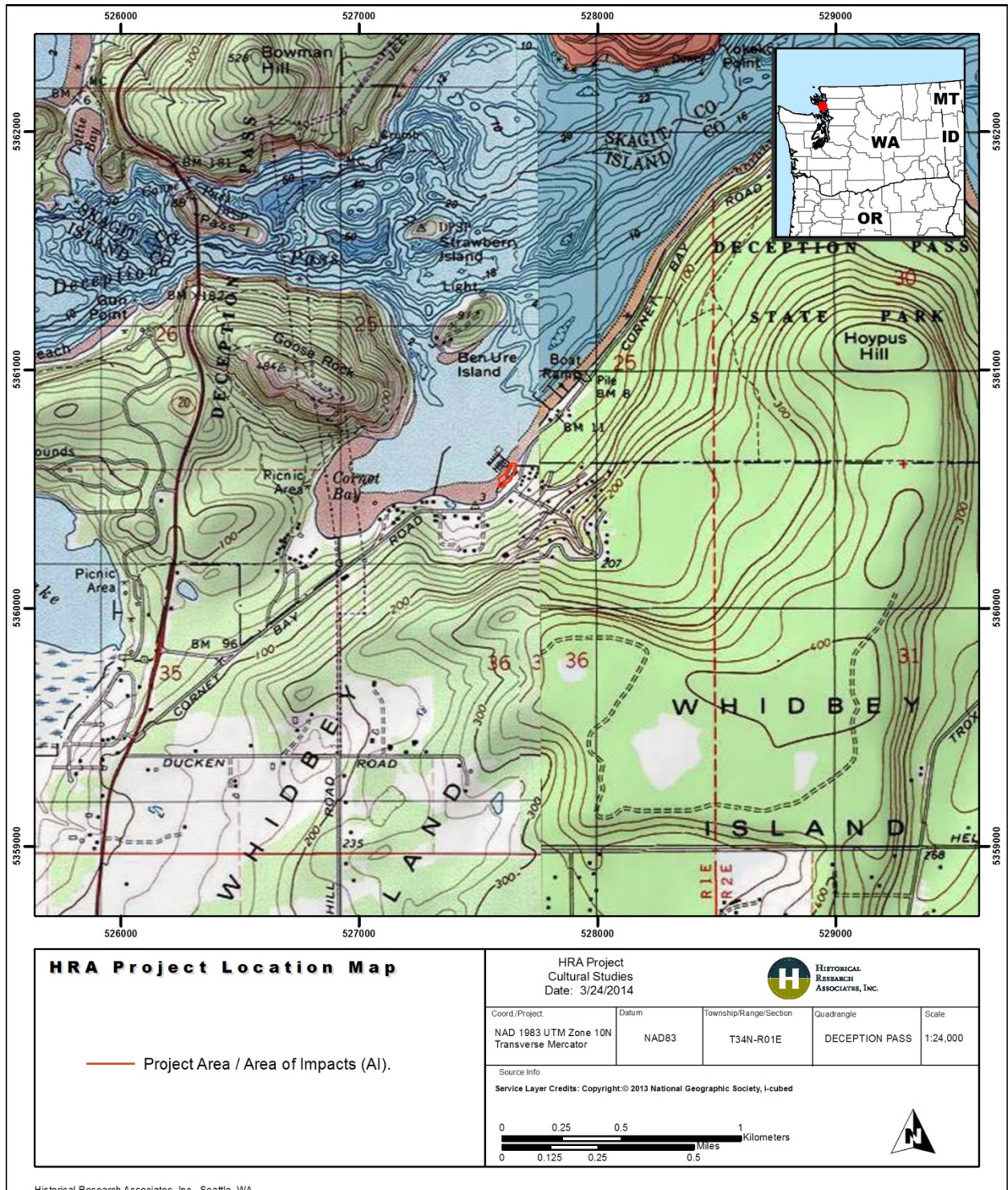


Figure 1-1. Project Location and Area of Impacts

2. Regulatory Context and Area of Impact

2.1 Regulatory Context

This project is being undertaken under Washington State Department of Ecology (DOE) Consent Decree (#93-2-00018-3) and is subject to compliance with the State Environmental Protection Act (SEPA). It is also subject to laws of the State of Washington including the Revised Code of Washington (RCW), particularly RCW 27.44 regarding Indian Graves and Records, RCW 27.53 concerning Archaeological Sites and Resources, and RCW 68.60 regarding Abandoned Historic Cemeteries and Historic Graves.

2.2 Area of Impacts

The Area of Impacts (AI) is defined as the portions of the proposed Project wherein ground disturbing activities could impact human remains or archaeological deposits that are potentially eligible for listing in national, state, or local registers. The project AI is proposed to consist of the entire parcel under investigation, where ground disturbance may occur in previously undisturbed sediments. This area measures approximately 0.89 acres (Figure 2-1). A 1940s map shows the AI in respect to the shoreline prior to the construction of the Marina (Figure 2-2).

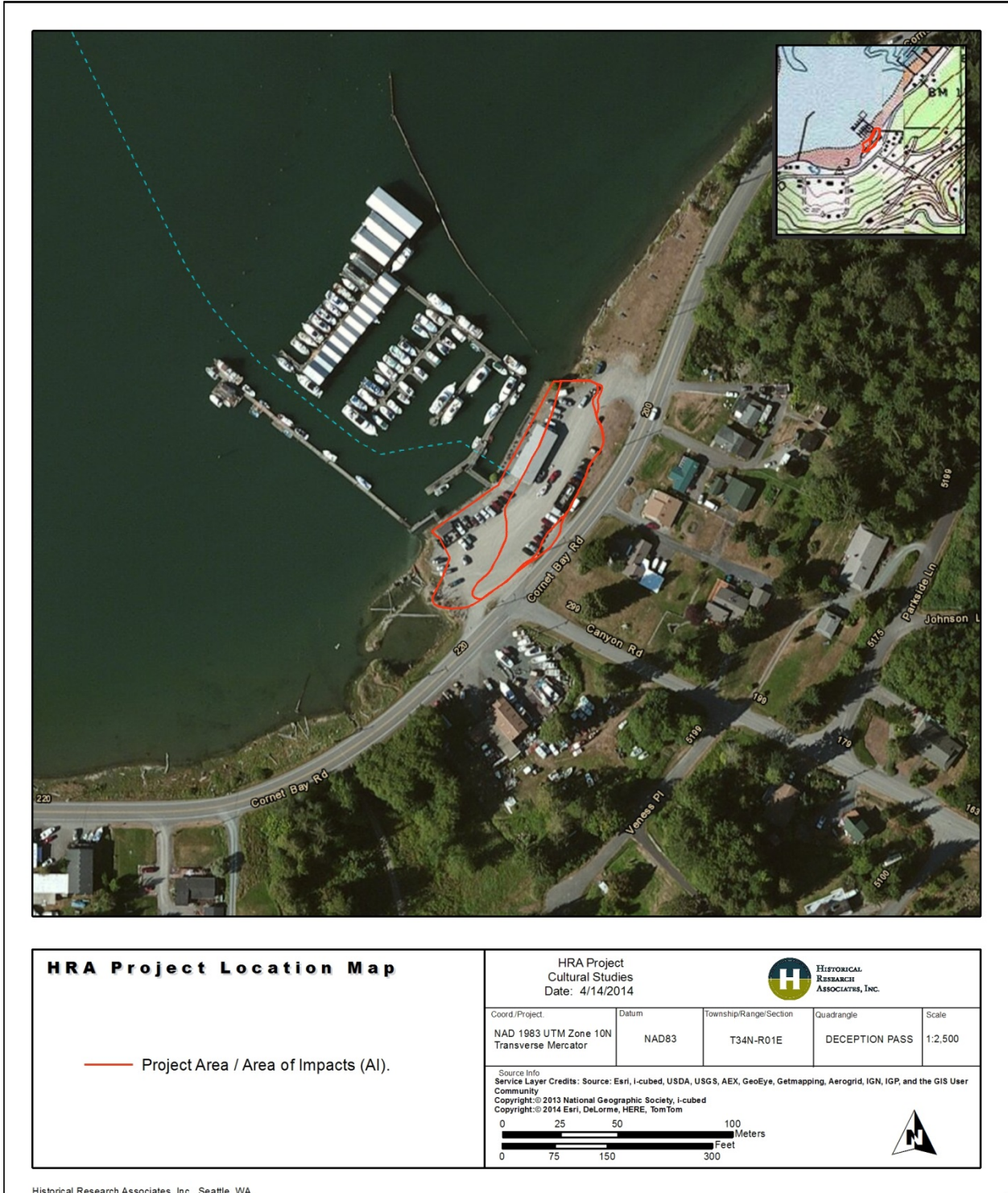


Figure 2-1. Area of Impacts (AI).

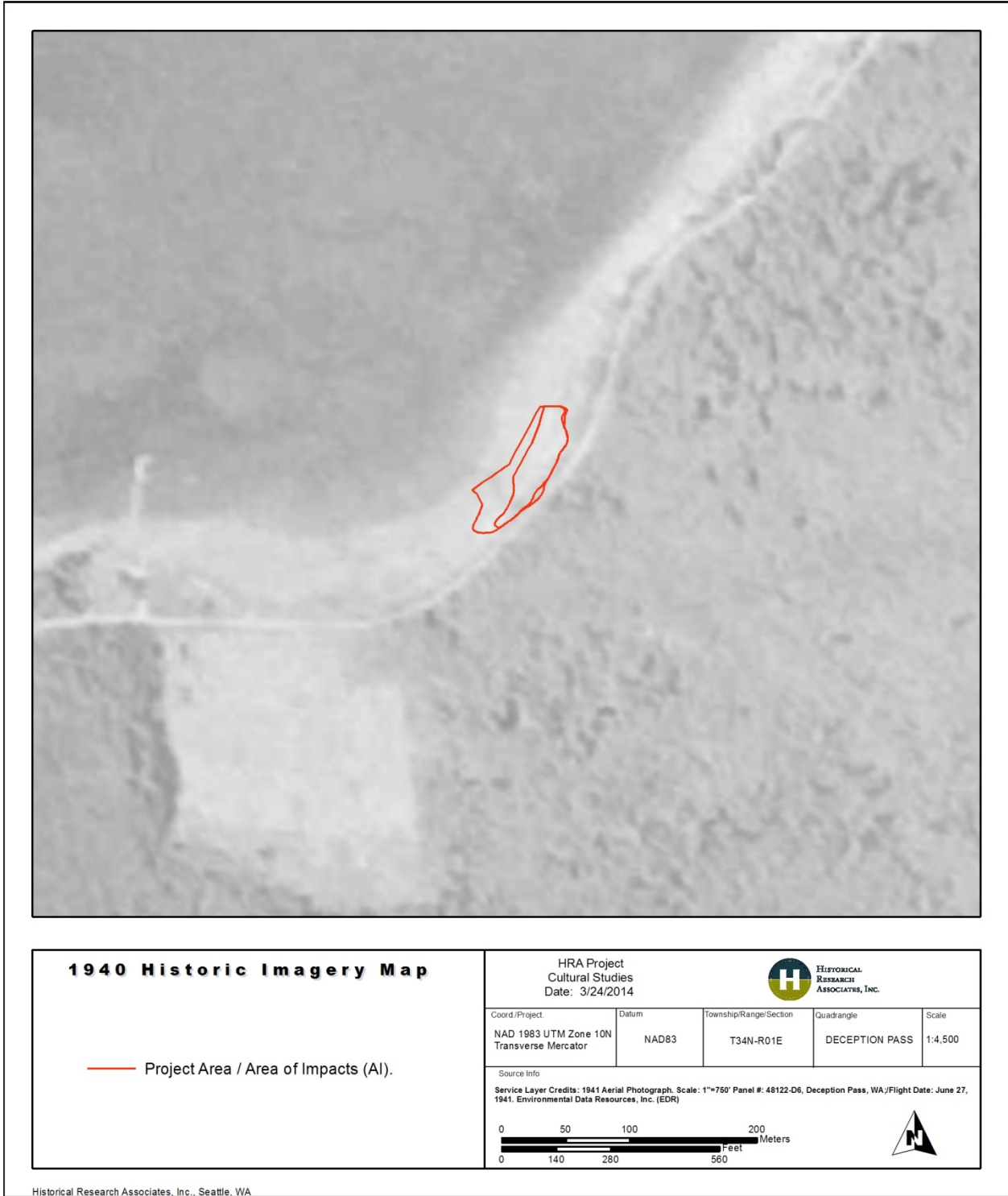


Figure 2-2. Area of Impacts plotted on a 1940s aerial photograph (source: Kennedy Jenks 2013a).

3. Procedures for Archaeological Monitoring and the Treatment of Archaeological Resources

The State of Washington requires oversight of all cultural resources related activities to be overseen by a Professional Archaeologist who meets the Secretary of the Interior's qualifications (36 CFR part 61; RCW 27.53.030.8). Due to the contamination of the soils at the Cornet Bay Marina project AI, the monitors were also required to hold a current 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) certification. HRA archaeologists Angus Raff-Tierney, Colin Lothrop, and Jennifer Gilpin followed a monitoring protocol based on the Inadvertent Discovery Plan (IDP) that had been developed by Cultural Resource Consultants, Inc. (CRC) (Hartman 2013a, 2013b).

Much of the marina was constructed of dredge fill material. An archaeological monitor from HRA was present on site during ground disturbing activities that went below this fill level into native soils. The monitor followed all safety regulations and wore personal protective equipment that included a hard hat, safety glasses, steel-toed boots, and a high visibility vest. HRA personnel additionally stayed away from all unsecured ledges and pits over 5 ft deep. Daily notes were recorded on a notebook, transcribed to HRA's standard monitoring form, and submitted for the HRA Supervisor's review. These notes recorded the depth, location, and description of soil strata, finds, and debris not considered significant. Photographs were taken daily, including overviews of specific construction areas, soil profiles, cultural materials, and work in progress.

During excavation, the archaeological monitor stood in proximity to construction equipment in order to view subsurface deposits as they were exposed, and maintained close communication with equipment operators to ensure adequate opportunity for observation and documentation, as well as safety. The monitor sought to identify potential buried surfaces, anthropogenic sediments, and archaeological features such as shell middens, hearths, or artifact-bearing strata. The monitor inspected project excavations and recovered sediments to examine for indications of such archaeological resources. The monitor was provided the opportunity to screen excavated sediments and soil matrix samples when this was judged useful to the identification process. Modern fill (e.g., imported culturally-sterile construction fill) or glacial till sediments were not included in screening activities. Excavated spoils were examined in the course of monitoring. If cultural materials were

observed in spoils piles, it was expected that these would be removed for examination and that the opportunity to screen spoil sediments was available.

4. Monitoring Results

Archaeological monitoring was conducted by HRA archaeologists Angus Raff-Tierney, MA, Colin Lothrop, BA, Jennifer Gilpin, MA, and supervised by Carol Schultze, PhD, RPA. Excavation was conducted by Glacier Construction Services using Deere 350G and 200D excavators, and overseen by KJC. An archaeological monitor was present during all days that included disturbance of native soils. These dates include February 3, 5–7, 12, 13, 17–19, and 26, and March 3, 5, 6, 10, 11, 14, 17, and 27 of 2014.

4.1 Sediment Types

Four types of sediment were observed in the AI: terrestrial fill, dredged marine fill, native sediments, and glacial deposits (Figure 4-1). Terrestrial fill covered the AI to depths ranging from 2 to 4 ft below surface, or 10 to 12 ft above mean sea level (amsl). It consisted of brown compact sandy silt with 40 percent subround gravel and pebbles. Beneath this upper stratum was a deposit of dredged marine fill. This deposit varied in depth from 4 to 6 ft along the road/historic shoreline to 12 ft nearer to the bay. The marine dredge fill consisted of blue loose sandy clay with sparse shell fragments. The thickness of the dredge fill deposit varied throughout the AI but was generally thicker towards the bay and thinner along the road.

The intact native surface was observed across the AI beneath the terrestrial and dredge fill deposits. Along the south side, toward the historic shoreline, the native surface was shallowest and contained more organic debris, including wood. Towards the bay on the north side of the AI, the native surface gradually increased in depth and the woody organic debris was absent.

On the southern side of the AI, the native surface was 4 to 6 ft beneath the present surface level (Figure 4-1). In this area, the native surface was between 2 and 10 inches in thickness and consisted of black sandy silt with rootlets and decaying wood. Wood fragment density in this layer increased to the east becoming peat. This layer graded into glacial till with increasing depth below surface. The glacial till was dense blue clay with 20 to 40 percent unsorted subround pebbles and gravels.



Figure 4-1 Southeastern AI showing layered terrestrial fill on top, marine fill dredge, and native peat on bottom, view south.

On the bay-side, north of the AI, native soil was present 11.5 ft deep (2.5 ft amsl) and included two strata (Figure 4-2). The upper stratum was gray blue sandy clay with sparse bands of rounded gravel and bands of browner grey. This contained a few small whole and crushed shells. Some of the shells were in their natural position (vertical), indicating an intact ground surface; however, others were lying flat, indicating some disturbance. This top stratum is about 13 inches thick, the same color as the fill above, and could be distinguished from the fill by merit of being free of clam fragments and gravels. Shells in this area were predominantly mud clam (*Macoma nasuta*), a native bivalve adapted to silty marine sediments. The lower native stratum consisted of greenish grey-brown silty sand with many whole mud clams in natural position, and fewer gravels. There were also a few rounded pebbles. The boundary between these two native strata is abrupt and can be clearly seen as a distinct change in hue. The lower boundary of these native strata is indistinct; however, they graded into a

deposit of glacial till as depth increased. The glacial till consists of dense blue clay with some pebbles and gravels.



Figure 4-2 Northwestern AI, view north. The native surface can be seen as a straight horizontal color change from lighter to darker grey to the right of the log.

4.2 Archaeological Site 45IS333

Removal of the terrestrial and marine fill sediments uncovered a creosote-treated wood bulkhead that extends along the northern bay edge of the project AI. This was recorded as a historic-era site (45IS333) prior to its removal (Schultze 2014). The bulkhead is approximately 400 ft long and 10 ft deep with two right angles extending the bulkhead south (Figure 4-3). It was built in the early 1960s, prior to the opening of the marina in 1963. Upon submission of the site record and through phone

consultation on the part of KJC, DAHP rendered an opinion that this historic site (45IS333) was not eligible for inclusion in the NRHP and allowed it to be removed.



Figure 4-3 Overview of the southwestern extent of the bulkhead, view north. Goose rock can be seen in the background.

Throughout the AI there are anchor logs and pilings. These features were used to support the bulkhead wall with 1-inch steel cables wrapped between the bulkhead and the anchor logs and pilings. Two sets of anchor logs, 2 to 3 ft wide and lying horizontally, ran the length of the project area from east to west, parallel to the shoreline. The anchor logs were found just above the native surface between 8 and 12 ft deep. Pilings with a 10 inch diameter ran along both sides of the anchor logs at 9 to 11 ft intervals.

Another historic-era artifact in the southeastern AI was found in dredge fill 6 ft deep and 25 ft north of the road. The artifact is a clear glass liquor bottle with the Owens-Illinois company logo and the

following script embossed on the bottom and sides, “D90, 57-52”, “4/5 Quart”, and, “FEDERAL LAW PROHIBITS SALE OR RE-USE OF THIS BOTTLE.” The bottle is 11 inches long with a 3 inch diameter base, and a 1 1/16 inch diameter stopper top (Figure 4-4). All liquor bottles were required to have the federal law statement imprinted from 1935 and 1964 (Lindsey 2014). While having this date range makes the bottle historic, it was found in a secondary context in the fill and as such was not recorded.



Figure 4-4 Liquor bottle embossed with, “FEDERAL LAW PROHIBITS SALE OR RE-USE OF THIS BOTTLE” from fill levels.

A few modern artifacts, including cans and glass, were observed scattered throughout the AI. In the southeastern area, there was a localized refuse dump associated with the native surface (Figure 4-5). Although this refuse was associated with the native surface, it did not contain any diagnostic characteristics and was therefore was not recorded.



Figure 4-5. Modern artifacts associated with native peat deposits in the southeastern excavation limits.

In the southwestern area, modern, as well as historic-era, artifacts were observed separately in fill materials. These included a brown beer bottle, a glass Coca-Cola bottle, and a tire and rim. The beer bottle was found 15 ft west of the bulkhead. The manufacturing mark used was the Owens-Illinois mark from after 1954 (Whitten 2014). The Coca-Cola bottle was 7 3/4 inches long with a 2 3/8 inch base. Raised text on the body reads “Punca city, OKLA,” and “Pat d-105529.” This patent number was printed on Coca-Cola bottles from 1937 to 1951 (Lockhart and Porter 2010). While some of these artifacts are older than 50 years, they were not recorded because they were found in fill deposits that lack integrity.

5. Conclusions

HRA archaeologists monitored all ground disturbing activities into intact native sediments in the AI during the remediation excavation conducted by KJC at the Cornet Bay Marina. During monitoring, one historic-era bulkhead was identified and recorded as Site 45IS333. This was a bulkhead built prior to 1963 (Kennedy Jenks 2013b). DAHP concurred that this site was not eligible for inclusion in the NRHP and allowed it to be removed.

KJC completed planned excavations in April 2014 and it is anticipated that no further ground disturbing activity will occur in native soils at the project AI. Unless there are changes and additions to the planned ground disturbing activities, no further cultural resources work is recommended.

6. References

Hartman, Glenn

2013a *Proposed Plan for Archaeological Monitoring and Inadvertent Discovery Protocol, for the Cornet Bay Marina MTCA Cleanup Project, Island County, Washington*. Submitted to Kennedy Jenks Consultants, Seattle, Washington.

2013b *Cultural Resources Assessment for the Cornet Bay Marina MTCA Cleanup Project, Island County, WA*. Submitted to Kennedy Jenks Consultants, Seattle, Washington.

Kennedy Jenks Consultants

2013a *Remedial Investigation/ Feasibility Study Report: Cornet Bay Marina, Whidbey Island, Washington*. Prepared for Washington State Department of Ecology Toxics Cleanup Program, Olympia.

2013b *Engineering Design Report Cornet Bay Marina, Whidbey Island, Washington*. Prepared for Washington State Department of Ecology Toxics Cleanup Program, Olympia.

Lindsey, Bill

2014 *Bottle Typing/Diagnostic Shapes. Liquor/Spritis Bottles*. Electronic document, <http://www.sha.org/bottle/liquor.htm>, accessed April 8, 2014.

Lockhart, Bill, and Bill Porter

2010 *The Dating Game: Tracking the Hobble-Skirt Coca-Cola Bottle. Bottles and Extras*. September-October. Electronic document, <http://www.sha.org/bottle/pdf/coca-cola.pdf>, accessed March 20, 2014.

Schultze, Carol

2014 *State of Washington Archaeological Site Inventory Form, Cornet Bay Marina Bulkhead, HRA2186-1*. On file at the Department of Archaeology and Historic Preservation, Olympia, Washington.

Whitten, David

2014 *Glass Bottle Marks: Owens-Illinois Glass Company*. Electronic document, <http://www.glassbottlemarks.com/owens-illinois-glass-company-bottle-container-marks/>, accessed March 20, 2014.

Appendix A. Site Record for 45IS333

SITE DESCRIPTION

***Narrative Description:**

The creosote-treated wood bulkhead was observed during archaeological monitoring at the Cornet Bay Marina Remediation Project (project). The northwestern length and portions of the southwest and northeast lengths of the bulkhead were exposed prior to the remediation, and are shown on project plans (Figure 2). An unanticipated section of the bulkhead, located in the southwestern portion of the project area, was recorded during monitoring (Figure 3).

The exact date of bulkhead construction is uncertain. The hardware store owner at Deception Pass Marina reported that the grand opening for the marina was in 1963, making the construction just over 50 years ago (personal communication with "Dundee"). The Site History section of the project's Remedial Investigation/Feasibility Study (RIFS) Report states that construction of the marina "was completed in the early 1960s" (Kennedy Jenks 2013:3-1). The RIFS also states that "four USTs [underground storage tanks] were installed in 1964 (Kennedy Jenks 2013:3-1)," which suggests that the future marina may have been filled by this date.

***Site Type** (*Refer to the DAHP Survey and Inventory Guidelines Page 19*): Historic Water Structure

***Site Dimensions**

***Length:** 1,000 ft ***Direction:** NE-SW x ***Width:** 100 ft ***Direction:** NW-SE

***Method of Horizontal Measurement:** Trimble points

***Depth:** 10 ft *** Method of Vertical Measurement:** Extent of excavation

***Vegetation** (*On Site*): None

Local: Western Hemlock/Fir community **Regional:** Same

Landforms (*On Site*): Bay **Local:** Hills to south

Water Resources (*Type*): Puget Sound **Distance:** Adjacent **Permanence:** Year-round

CULTURAL MATERIALS AND FEATURES

***Narrative Description:**

A wooden bulkhead stretching across the length of the marina was exposed during the removal of fill sediments. The previously exposed portions of the bulkhead measure approximately 300 total feet in length. Another approximately 80 foot section was exposed during archaeological monitoring of contaminated fill removal in the southwest portion of the project area during archaeological monitoring (Figure 2).

The bulkhead appears to have a fairly standard method of construction, consisting of tightly-spaced vertical boards braced with three horizontal boards and supported by vertical pilings lashed with 1-inch metal cable (Figures 4, 5). The wood has been creosote-treated. Vertical boards measure approximately 3.5 inches thick by 1 foot wide. Vertical boards removed during project activities measured 8 to 10 feet in length (Figure 6), although the total length of all vertical boards is uncertain. At the far southern end of this section, approaching the historic shoreline, shorter vertical boards were required (measuring 3 feet, 1 inch), and they were braced by a single length of horizontally oriented boards.

Horizontal braces tended to be thicker, measuring approximately 4 inches, and ranging between 8 inches and 1 foot wide. Horizontal braces were nailed to vertical boards approximately 3 feet apart along the outer face of the bulkhead. Observed pilings range in diameter between 1 foot and 18 inches, and the upper cable is lashed approximately 8 inches below the upper surface of the pilings (Figure 7).

***Method of Collection(s):** No artifacts were collected

***Location of Artifacts** (*Temporary/Permanent*): N/A

SITE AGE

***Component:** Historic ***Dates:** circa 1960-1965 ***Dating Method:** Texts, oral history

Phase: Twentieth century **Basis for Phase Designation:** Materials and technology

SITE RECORDERS**Observed by:** Angus Tierney, MA, and Jennifer Gilpin, MA **Address:** HRA (see below)***Date Recorded:** 2/18/2014***Recorded by** (*Professional Archaeologist*): Jennifer Gilpin***Affiliation:** Historical Research Associates, Inc. (HRA)***Affiliation Phone Number:** 206-343-0226***Affiliation Address:** 1904 3rd Ave, Seattle, WA 98101***Affiliation E-mail:** jgilpin@hrassoc.com**Date Revisited:****Revisited By:****SITE HISTORY****Previous Work** (*Done on Archaeological Site*):

In 2013, Cultural Resource Consultants, Inc., performed a cultural resources assessment ahead of the proposed remediation project. Due to the levels of soil contamination in the project area, no subsurface survey was performed. Although the technical memorandum mentions the wooden bulkhead, no date of construction is provided, and the bulkhead was not recorded as a resource (Hartmann 2013).

LAND OWNERSHIP***Owner:** Deception Pass Marina, Inc.***Address:** 200 Cornet Bay Rd, Oak Harbor, WA 98277-9756***Tax Lot/ Parcel No:** R13436-506-2420

RESEARCH REFERENCES***Items/Documents Used In Research (Specify):**

Hartmann, Glenn (2013) *Cultural Resources Assessment for the Cornet Bay Marina MTCA Cleanup Project, Island County, Washington*. Cultural Resources Consultants, Inc. Technical Memo 1110P-4. Prepared for Grette Associates.

Kennedy Jenks (2013) *Draft Engineering Design Report. Cornet Bay Marina, Whidbey Island, Washington*. Prepared for Washington State Department of Ecology.

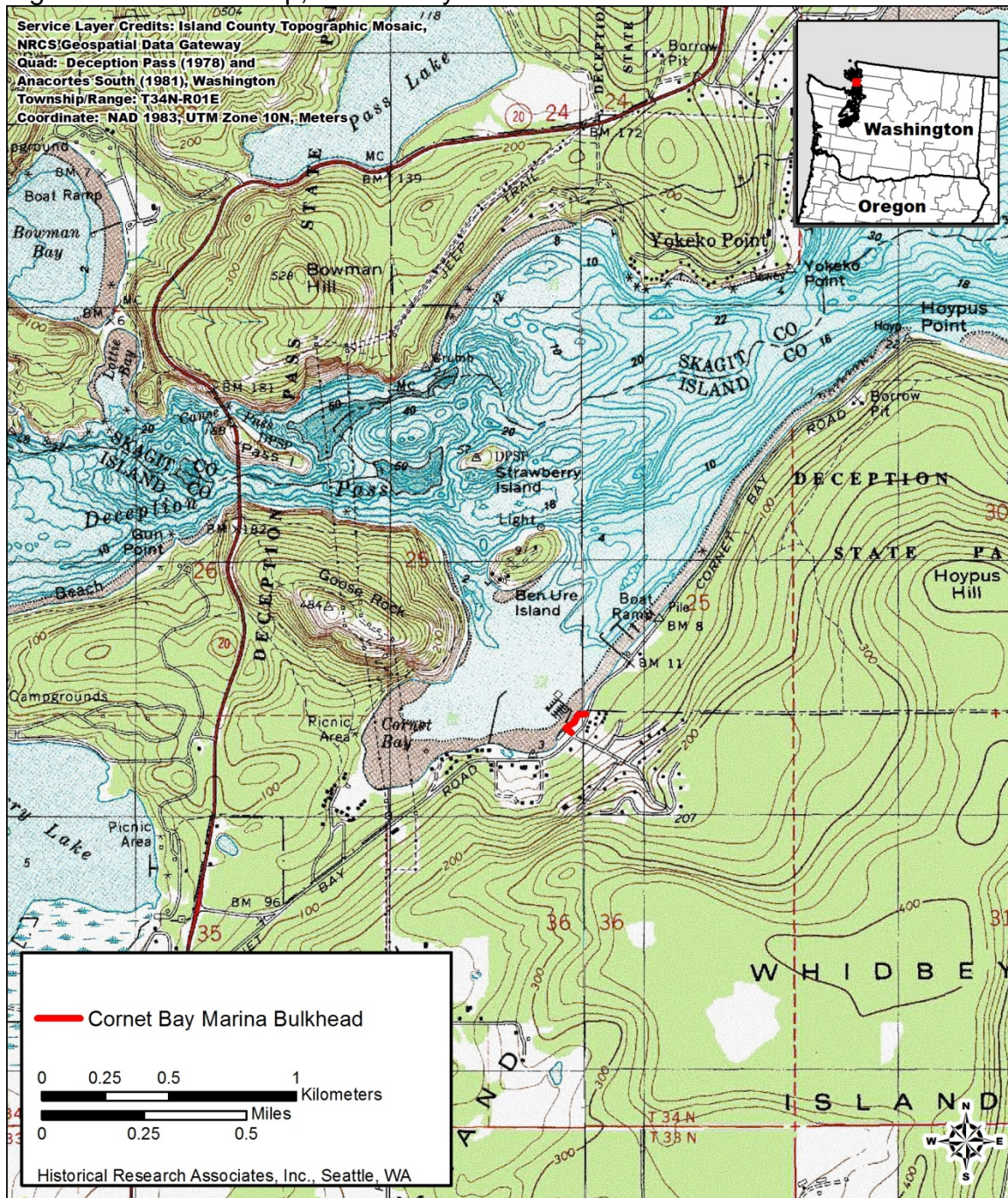
USGS MAP

*Quad Name: Deception Pass

*Series: 7.5 min

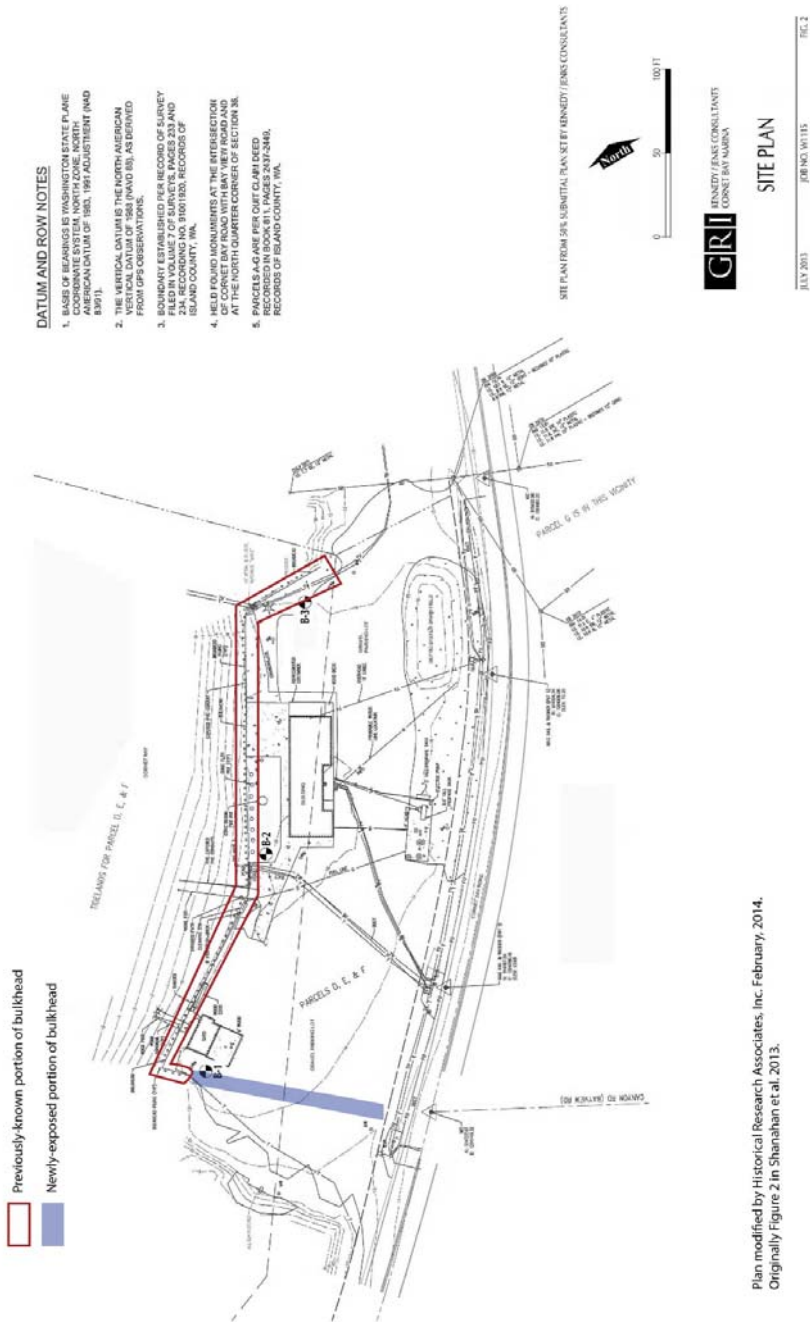
*Date: 1978

Figure 1: Location map, Cornet Bay Marina Bulkhead



SKETCH MAP

***Sketch Map Description:** Figure 2:
Project plans (Kennedy Jenks 2013) showing location of previously known and discovered portions of the bulkhead



PHOTOGRAPH(S)

***Photograph Description(s):**



Figure 3: Overview of east side exposed southwest section of the bulkhead (view to northwest).

PHOTOGRAPH(S)



Figure 4: Overview of exposed portion of southwest section of bulkhead, southwest face, along the middle portion of the bulkhead. Note vertical boards, horizontal braces, and cable-wound piles (view to east).

PHOTOGRAPH(S)



Figure 5: Same section of bulkhead as Figure 4, closer view (tape at 2 feet and view to east).

PHOTOGRAPH(S)



Figure 6: Overview of removed portions of the bulkhead, showing variable lengths and widths of creosote-treated components to the bulkhead (view to north).

PHOTOGRAPH(S)



Figure 7: Overview of upper portion of a cable-wound support pile, showing diameter and size of cable (view to southeast).

CONTINUATION/ ADDENDUM SHEET

*Label all additional pages by corresponding headings.
(e.g. Site Description, Site History, Research References)*



TECHNICAL MEMORANDUM

Prepared by: Grette Associates^{LLC}
2102 North 30th Street, Ste A
Tacoma, WA 98403

August 28, 2014

Prepared for: Kennedy/Jenks Consultants, Inc.
ATTN: Jarod Fisher
32001 32nd Ave. South, Suite 100
Federal Way, WA 98001

File No.: 304.005

Re: Cornet Bay Marina Model Toxic Control Act Cleanup Mitigation Plan As-Built Report

Grette Associates, LLC is under contract with Kennedy/Jenks Consultants, Inc. to complete the post construction monitoring (Year 0) requirements of the approved *Cornet Bay Marina Mitigation Plan* (Plan; Grette Associates 2013). A Grette Associates staff wetland biologist completed a compliance inspection on May 29, 2014 to verify that the mitigation site was installed according to the Plan. During the site visit, Grette Associates staff traversed the mitigation site to ensure that the approved vegetation was installed properly and in the appropriate locations. This memorandum is intended to serve as the As-Built Report required in the approved Plan.

As required by the Plan, a total of three (3) permanent transects were established within the mitigation site to provide consistency of data collection between monitoring years. Transect endpoints were marked with wooden stakes and were labeled 1 through 3 (T1, T2 and T3) and their locations marked on the attached figure. In addition, each endpoint will serve as a photo point to document the success and development of the site over time. Photographs from each transect endpoint are presented at the end of this memorandum.

The intent of the As-Built Report is to document the implementation of the mitigation actions and describe any deviations from the approved Plan that occurred due to unforeseen site conditions. Based on survey measurements completed by the project contractor, a total of 1,320 square feet of aquatic habitat was created within the mitigation site (Table 1). Upon completion of the post-construction inspection, it appears the planting plan was implemented according to the approved Plan. However, at the time of the as-built inspection it was observed that many of the plants that were planted within the wetland enhancement area were dead or severely stressed, likely due to regular inundation by tidal waters. This specific issue is discussed below in greater detail. A summary of the required Year 0 ("As-Built Year") performance standards within the Plan is presented in Table 1.

Table 1. Year 0 Performance Standard Summary

Performance Standards	Performance Standard met?
1a. A minimum of 1,300 square feet of aquatic area will be created by the end of the Cornet Bay cleanup.	Yes - 1,320 sq ft
2a. A minimum of two (2) species of native shrubs will be present by the end of the monitoring period within the wetland enhancement area.	Yes – 2 species present
2b. A minimum of 100% survival of planted shrub species in Year 0 within the wetland enhancement area. ¹	No - 49%
3a. A minimum of two (2) species of native shrubs will be present by the end of the monitoring period within the buffer enhancement area.	Yes – 4 species present
3b. A minimum of 100% survival of planted shrub species in Year 0 within the buffer enhancement area. ¹	Yes – 100%

¹ Year 0 requires 100% survival of planted stock. The remaining scheduled monitoring periods are required to have a minimum of 80% survival of planted stock within the enhancement areas.

With the exception of the wetland enhancement survival performance standard, the mitigation site met all of the required performance standards for Year 0. The wetland enhancement area contains Hooker’s willow (*Salix hookeriana*) and sweet gale (*Myrica gale*), while the buffer enhancement area contains Nootka rose (*Rosa nutkana*), Scouler’s willow (*S. scouleriana*), oceanspray (*Holodiscus discolor*), and sweet gale.

Many of the shrub species that were planted within the wetland enhancement area did not survive. It appears that many of these species were planted at too low an elevation and are being regularly inundated by marine waters. During the site inspection, 63 of the 65 shrub species planted were identified, 32 of which did not survive. Based on the data collected, the two unaccounted for shrubs were likely planted in the adjacent wetland buffer enhancement area (Table 2). The survival rate within the wetland enhancement area is 49 percent. The high mortality within the wetland enhancement area is likely due to over exposure to salt water. A majority of the wetland is relatively steep and transitions to upland in a moderately short distance. As a result, there is a narrow area where groundwater and salt water meet and brackish conditions exist. Based on these conditions, replanting the species in the general location where they did not survive is not recommended.

Table 2. Mortality Results

Common Name	Scientific Name	Alive	Dead
Wetland Enhancement Area			
Hooker's willow	<i>Salix hookeriana</i>	21	18
Sweet gale	<i>Myrica gale</i>	10	14
Wetland Buffer Enhancement Area			
Nootka rose	<i>Rosa nutkana</i>	13	0
Scouler's willow	<i>Salix scouleriana</i>	41	1
Oceanspray	<i>Holodiscus discolor</i>	18	0
Sweet gale ¹	<i>Myrica gale</i>	6	0

¹ sweet gale was scheduled to be planted in the Wetland Enhancement Area only.

Per the approved Plan, contingency actions may be implemented if physical or biological processes are responsible for non-attainment of the performance standards. The following contingency actions are recommended:

- Substitute 15 of the shrubs that did not survive with seashore saltgrass (*Distichlis spicata*), saltmarsh bulrush (*Schoenoplectus maritimus*), and Lyngby's sedge (*Carex lyngbyei*) in the lower areas where the shrubs did not survive. These emergent species should be planted in clusters, consisting of four (4) plugs of the same species per cluster, with the clusters planted two feet on center (see attachment). Each cluster would substitute one shrub. The recommended substitution and plantings of these emergent species should occur in bare areas and at the same elevation of existing emergent vegetation within the wetland. Once all emergent species are planted a temporary goose exclusion fence should be installed to protect the planted emergent vegetation. A typical goose exclusion fence consists of grid like structure made with rebar and natural fiber twine that spans the planted emergent vegetation. Extending emergent vegetation within portions of the wetland will increase foraging opportunities for salmonids and waterfowl.
- Replant 17 of the shrubs that did not survive within the wetland enhancement area with sweet gale. Hooker's willow is not recommended to be replanted because sweet gale generally has a higher salt tolerance. The plantings should occur along the upper perimeter of the wetland at the highest elevation while remaining within the boundaries of the wetland. Further, sweet gale should not be planted below the elevation where existing shrubs are surviving; any shrub that is planted below this elevation would likely not survive. Relocating this species to the upper extent of the wetland should increase survival and reduce exposure to regular tidal inundation, while still providing vegetation complexity, wildlife habitat, shade, and the requirements of the approved Plan.
- It was anticipated that the cleanup project would not need to import amended soils within the mitigation area. However, based on the highly permeable, mineral soils within the northeast portion of the enhancement areas, it is recommended that the shrubs that are to be replanted be placed in pits that contain organic soil amendments. Plant installation should consist of excavating a plant pit at least three times the diameter of the root system and backfilled with a mixture of topsoil and organic material (no manure). Refer to

Section 5.2.5 of the approved Mitigation Plan for detailed instructions for installing plant material. Further, it is recommended that a biologist be present during the plant installation to ensure proper location and installation of the plants.

- A temporary irrigation system should be installed within the northeast portion of the enhancement area to provide water to the planted vegetation. The soils within the enhancement areas adjacent to the cleanup consist of coarse sand and fine gravel. The highly permeable soil conditions will likely increase future mortality rates if the plants are not watered.

The recommended contingency actions are intended to correct deficiencies observed after planting, and to enable the mitigation site to achieve the goals and objectives defined in the Plan. While the original area proposed for wetland enhancement consisted of only shrub species, these contingency actions should result in the same amount of enhanced wetland area required in the approved Plan. Furthermore, the recommended contingency actions would retain the required species composition and diversity within the wetland. Currently, the wetland contains two native shrub species, thus meeting performance standard 2a (Table 1). Installation of the species listed above should be done in the fall to reduce mortality. The removal and replanting of vegetation below the Ordinary High Water Mark must comply with appropriate fish work windows. Based on the Project's USACE permit (NWS-2013-048), the approved work window is July 16th through February 15th. Per the USACE permit and a determination by WDFW, the project is not required to complete forage fish surveys prior to work below the ordinary high water mark.

Upon completion of the contingency actions stated above, a compliance inspection should be conducted to ensure that these actions were correctly implemented. All other monitoring surveys will comply with the monitoring schedule in the approved Plan.

If you have any questions on the site assessment observations or contingency action recommendations, please contact me at (253) 573-9300, or by email at chadw@gretteassociates.com.

Regards,



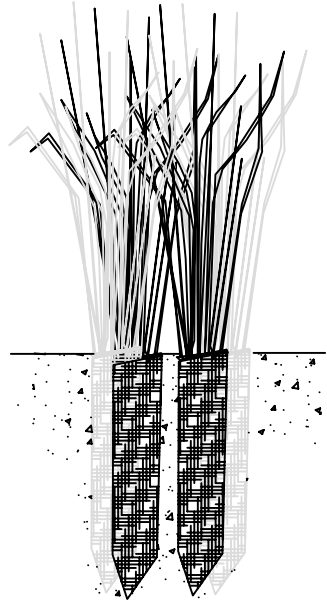
Chad Wallin
Biologist

References:

Grette Associates, LLC. 2014. Cornet Bay Marina – Cornet Bay Marina Mitigation Plan: Model Toxic Control Act (MTCA) Cleanup. Prepared for Kennedy/Jenks Consultants, Inc. July 2013.

EMERGENT PLUG PLANTING DETAIL

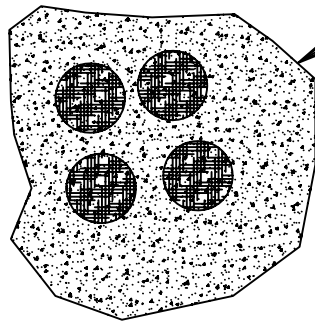
NOT TO SCALE



NOTES:

- o PLANT IN CLUMPS OF 4 OF SAME SPECIES AT SPACING SPECIFIED IN PLAN
- o BACKFILL TO BE SETTLED USING WATER ONLY
- o EXCAVATE PLANTING PIT 1 FOOT DIAMETER AND 1 FOOT DEEP
- o GRADE TO FINISH GRADE
- o WATER IMMEDIATELY AFTER INSTALLATION

PLAN VIEW - 4 PUGS IN SAME HOLE



TREE + SHRUB PLANTING DETAIL

NOT TO SCALE

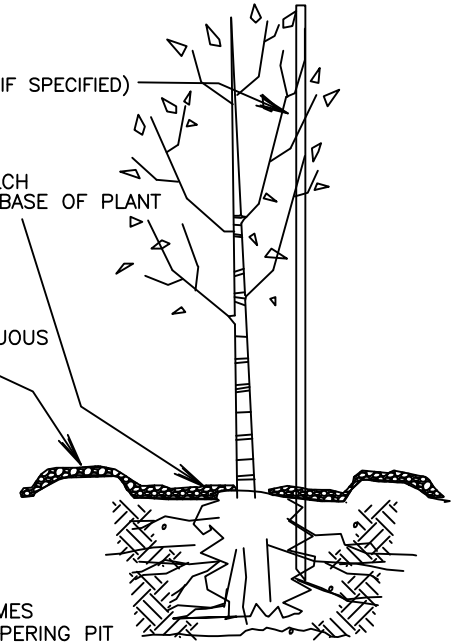
LOCATOR LATH (IF SPECIFIED)

APPROXIMATELY 3" DEEP LAYER OF MULCH APPROXIMATELY 12" DIAMETER AROUND BASE OF PLANT HOLD BACK 2"-3" FROM STEM

FEATHER EXCESS SOIL TO CREATE CONTINUOUS WATER BASIN BERM

NOTES:

- o PLANT SHRUBS IN GROUPS OF 3 TO 5 OF SAME SPECIES AT SPACING SPECIFIED IN PLAN
- o REMOVE CONTAINER & WORK ROOTS FREE OF SOIL; SPREAD ROOTS INTO EXCAVATION
- o BACKFILL TO BE SETTLED USING WATER ONLY
- o EXCAVATE TREE PIT AT A MIN. OF 4 TIMES DIA. OF ROOTBALL AT BALL CENTER, TAPERING PIT GRADE TO FINISH GRADE
- o WATER IMMEDIATELY AFTER INSTALLATION
- o BARE-ROOT SIMILAR; EXCAVATE TO FULL DEPTH OF ROOT MASS AND CANOPY DIAMETER. SPREAD ROOTS TO FULL WIDTH OF CANOPY. WATER IMMEDIATELY AFTER INSTALLATION



SHEET

1

OF
1



TYPICAL PLANTING DETAIL

CORNET BAY AS-BUILT REPORT



2102 North 30th Street, Suite A
TACOMA, WA 98403
(253) 573-9300
gretteassociates.com

SITE ADDRESS:
CORNET BAY, WA

DRAWING SCALE:
NTS

CLIENT:
CORNET BAY MARINA

PROJECT #: 304.005

DESIGNED BY: CW DATE: 07/24/14

CHECKED BY: SM DATE: 07/24/14

Attachment A.

Figure 1. Transect 1 facing southeast



Figure 2. Transect 1 facing northwest.



Figure 3. Transect 2 facing southwest.



Figure 4. Transect 2 facing northeast.



Appendix J

Backfill Compaction Density Reports and
Concrete Break Strength Reports



Concrete Inspection & Compressive Strength Test Report

PROJECT:	Cornet Bay Marina Remediation	JOB #:	14-0010
ADDRESS:	251 Cornet Bay Road, Oak Harbor, WA	REPORT #:	CB001
PERMIT #:		DATE:	4/9/2014
CLIENT:	Glacier Environmental Services	PAGE #:	1 of 1
CONTRACTOR:	Glacier Environmental Services	INSPECTOR:	Tim Martin

Placement Location: Slab on Grade With Thickened Edges (Continuous Footing)

Sample Location: Footing at the North, East and West Sides of the Slab / 1st Truck, Mid-load

Field Data:				Eq. No.
Supplier	Concrete Nor'West	Slump, in. (C143)	3.25	8
Mix #	02600570	Air Content, % (C231)	NT	
Mix Description	6 Sack, Ultra Fiber 500, MB Pozzoloth 200N	Unit Weight, pcf (C138)	n/t	
Truck/Ticket #	C172 / 103130	Air Temperature, °F	51	
Strength Required	4000 psi at 28 days	Mix Temperature, °F (C1064)	60	131
Quantity Placed, cy	46	Field Cure Temperature, °F	54 70	131
Time Batched	7:32 AM	Water Added on Job, gals	0	
Time Sampled	8:04 AM	Water Requested by		

Laboratory Data:

Lab No.	Test Age (Days)	Test Date	Total Load (lbs)	Area (in ²)	Compressive Strength (psi)	Remarks
32815	5	04-14	69030	12.57	5490	TYPE 2: AM Brake / Call Contractor w/ Re
32816	7	04-16	73900	12.57	5880	TYPE 2:
32817	28	05-07	83950	12.63	6650	TYPE 2:
32818	28	05-07	89560	12.63	7090	TYPE 2:
32819	Hold	00-00	0	0.00	0	

Reinforcement Inspection	Yes	n/a: not applicable	Specimen Size	4" X 8"
Reinforcement Conforms	Yes	n/t: not tested	Test Reference	ASTM C31/C39

Comments: The reinforcing steel was found to conform with details on S-7. The concrete was placed with a boom pump and was mechanically consolidated (The top 12" lift at the edges was consolidated by roding due to form movement).

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Concrete Inspection & Compressive Strength Test Report

PROJECT:	Cornet Bay Marina Remediation	JOB #:	14-0010
ADDRESS:	251 Cornet Bay Road, Oak Harbor, WA	REPORT #:	CB002
PERMIT #:	-	DATE:	5/13/2014
CLIENT:	Glacier Environmental Services	PAGE #:	1 of 1
CONTRACTOR:	Glacier Environmental Services	INSPECTOR:	Bill Kinsella

Placement Location: Sidewalks Both North and South Sides of the Existing Building, Concrete Pad for the Propane Tank

Sample Location: Propane Tank Pad

Field Data:				Eq. No.
Supplier	Concrete Nor'West	Slump, in. (C143)	3.00	#11
Mix #	260A570	Air Content, % (C231)	4.9	#1
Mix Description	5.5 Sack, MBAE90, MB200N	Unit Weight, pcf (C138)	NT	
Truck/Ticket #	C172 / 104100	Air Temperature, °F	51	
Strength Required	4000 psi at 28 days	Mix Temperature, °F (C1064)	66	12-13
Quantity Placed, cy	21	Field Cure Temperature, °F	56 / 79	12-13
Time Batched	7:27 AM	Water Added on Job, gals	5	
Time Sampled	8:15 AM	Water Requested by	CNW	

Laboratory Data:

Lab No.	Test Age (Days)	Test Date	Total Load (lbs)	Area (in ²)	Compressive Strength (psi)	Remarks
33435	7	05-20	61740	12.69	4870	TYPE 2:
33436	28	06-10	70130	12.69	5530	TYPE 2:
33437	28	06-10	66900	12.69	5270	TYPE 2:
33438	28	06-10	72660	12.69	5730	TYPE 3:
33439	Hold	00-00	0	0.00	0	

Reinforcement Inspection	NT	n/a: not applicable	Specimen Size	4" X 8"
Reinforcement Conforms	NT	n/t: not tested	Test Reference	ASTM C31/C39

Comments: There was fiber mesh only in the mix, the concrete was placed by chute and was screeded by hand. The sample was taken in the middle part of the first truck, 5 cylinders were cast.

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Concrete Inspection & Compressive Strength Test Report

PROJECT:	Cornet Bay Marina Remediation	JOB #:	14-0010
ADDRESS:	251 Cornet Bay Road, Oak Harbor, WA	REPORT #:	CB004
PERMIT #:		DATE:	5/20/2014
CLIENT:	Glacier Environmental Services	PAGE #:	1 of 1
CONTRACTOR:	Glacier Environmental Services	INSPECTOR:	John Silk

Placement Location: Sidewalk at Steel Pile Wall

Sample Location:

Field Data:

Eq. No.

Supplier	Concrete Nor'West	Slump, in. (C143)		
Mix #		Air Content, % (C231)		
Mix Description		Unit Weight, pcf (C138)		
Truck/Ticket #	- / -	Air Temperature, °F		
Strength Required	4000 psi at 28 days	Mix Temperature, °F (C1064)		
Quantity Placed, cy	40	Field Cure Temperature, °F		
Time Batched		Water Added on Job, gals		
Time Sampled		Water Requested by		

Laboratory Data:

Lab No.	Test Age (Days)	Test Date	Total Load (lbs)	Area (in ²)	Compressive Strength (psi)	Remarks
33676	7	05-27	114190	28.27	4040	TYPE 2:
33677	28	06-17	146280	28.18	5190	TYPE 2:
33678	28	06-17	156130	28.18	5540	TYPE 2:
33679	Hold	00-00	0	0.00	0	

Reinforcement Inspection	NT	n/a: not applicable	Specimen Size	6" X 12"
Reinforcement Conforms	NT	n/t: not tested	Test Reference	ASTM C31/C39

Comments: Cast by client.

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Concrete Inspection & Compressive Strength Test Report

PROJECT:	Cornet Bay Marina Remediation	JOB #:	14-0010
ADDRESS:	251 Cornet Bay Road, Oak Harbor, WA	REPORT #:	CB003
PERMIT #:		DATE:	5/21/2014
CLIENT:	Glacier Environmental Services	PAGE #:	1 of 1
CONTRACTOR:	Glacier Environmental Services	INSPECTOR:	John Silk

Placement Location: Sidewalk at Steel Pile Wall, 20' East of Main Door to South Dock

Sample Location: 1st Truck, Mid-Load, Taken at Chute at 10 Cubic Yards

Field Data:				Eq. No.
Supplier	Concrete Nor'West	Slump, in. (C143)	4.00	22
Mix #	260A570	Air Content, % (C231)	4.4	8
Mix Description	Stealth Fibermesh	Unit Weight, pcf (C138)	NT	
Truck/Ticket #	C169 / 104194	Air Temperature, °F	59	
Strength Required	4000 psi at 28 days	Mix Temperature, °F (C1064)	67	21-12
Quantity Placed, cy	30	Field Cure Temperature, °F		21-12
Time Batched	7:31 AM	Water Added on Job, gals	0	
Time Sampled	8:07 AM	Water Requested by		

Laboratory Data:

Lab No.	Test Age (Days)	Test Date	Total Load (lbs)	Area (in ²)	Compressive Strength (psi)	Remarks
33671	7	05-28	65820	12.63	5210	TYPE 2:
33672	28	06-18	75980	12.63	6020	TYPE 3:
33673	28	06-18	77200	12.63	6110	TYPE 2:
33674	28	06-18	78920	12.63	6250	TYPE 3:
33675	Hold	00-00	0	0.00	0	

Reinforcement Inspection	NT	n/a: not applicable	Specimen Size	4" X 8"
Reinforcement Conforms	NT	n/t: not tested	Test Reference	ASTM C31/C39

Comments: Concrete was placed via chute and was mechanically consolidated.

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Concrete Inspection & Compressive Strength Test Report

PROJECT:	Cornet Bay Marina Remediation	JOB #:	14-0010
ADDRESS:	251 Cornet Bay Road, Oak Harbor, WA	REPORT #:	CB005
PERMIT #:		DATE:	5/30/2014
CLIENT:	Glacier Environmental Services	PAGE #:	1 of 1
CONTRACTOR:	Glacier Environmental Services	INSPECTOR:	Bill Kinsella

Placement Location: 60' X 20' Exterior Concrete Pad Slab on Grade at the Southwest Corner of the Building on Site

Sample Location: Approx. 8' West and 10' South of the Main Building

Field Data:				Eq. No.
Supplier	Concrete Nor'West	Slump, in. (C143)	4.00	11
Mix #	260A570	Air Content, % (C231)	5.0	1
Mix Description	5.5 Sack / MBAE90 / MB200N / Fiber Mesh	Unit Weight, pcf (C138)	NT	
Truck/Ticket #	169 / 104264	Air Temperature, °F	51	
Strength Required	4000 psi at 28 days	Mix Temperature, °F (C1064)	68	20-19
Quantity Placed, cy	24	Field Cure Temperature, °F	53/51	20-19
Time Batched	7:33 AM	Water Added on Job, gals	7 Gal	
Time Sampled	8:15 AM	Water Requested by	Sub Contractor	

Laboratory Data:

Lab No.	Test Age (Days)	Test Date	Total Load (lbs)	Area (in ²)	Compressive Strength (psi)	Remarks
33911	7	06-06	53400	12.69	4210	TYPE 2:
33912	28	06-27	72160	12.69	5690	TYPE 2:
33913	28	06-27	70050	12.69	5520	TYPE 2:
33914	28	06-27	69110	12.69	5450	TYPE 2:
33915	Hold	00-00	0	0.00	0	

Reinforcement Inspection	NT	n/a: not applicable	Specimen Size	4" X 8"
Reinforcement Conforms	NT	n/t: not tested	Test Reference	ASTM C31/C39

Comments: The concrete was placed with a chute and was hand screeded. GeoTest sampled the middle of the load of the first truck. There was no reinforcing steel in the pour as the contractor used a fiber mesh in the mix.

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FIELD DENSITY/MOISTURE REPORT

Nuclear Gauge * ASTM D6938

PROJECT:	Cornet Bay Marina Remediation	JOB #:	14-0010
ADDRESS:	251 Cornet Bay Road, Oak Harbor, WA	REPORT #:	FD001
PERMIT #:		DATE:	2/11/2014
CLIENT:	Glacier Environmental Services	PAGE #:	1 of 1
CONTRACTOR:	Glacier Environmental Services	INSPECTOR:	Joe Goshorn-Maroney

Compaction Of: Pit Backfill

Field Data:

Test #	Location	Depth/ Elev (ft)	DT/ BS (in)	Wet Density (pcf)	Field Moisture (%)	Dry Density (pcf)	Lab #	Compaction %		Pass/ Fail
								Attained	Required	
1	SW Side of Pit	1' ASL	DT/12	137.4	6.8	128.7	1	96	95	P
2	NE Side of Pit	2' ASL	DT/12	144.8	5.0	137.9	1	103	95	P
3	SW Side of Pit	2' ASL	DT/12	145.1	5.5	137.6	1	103	95	P
4	SW Side of Pit	3' ASL	DT/12	140.1	5.3	133.0	2	98	95	P
5	NE Side of Pit	3' ASL	DT/12	143.8	6.2	135.4	2	99	95	P
6	SW Side of Pit	4' ASL	DT/12	141.6	6.3	133.2	2	98	95	P
7	NE Side of Pit	5.5' ASL	DT/12	143.0	5.5	135.6	2	100	95	P
8	SW Side of Pit	5' ASL	DT/12	141.3	5.8	133.6	2	98	95	P

Lab Sample #	Soil Type	Source	Max. Dry Density (pcf)	Optimum Moisture (%)	Retained On #4 (%)	Test Method
1-5537	PGG w/S	CNW - Boulder Pit	133.6	7.7	64	ASTM D1557/D4718
2-5538	PGS w/G	CNW - Boulder Pit	136.2	7.0	44	ASTM D1557/D4718
3-			0.0			None

Gauge Make/Model/Serial#: Troxler / 3440 / 67887 M/D Standard Count: 750 / 2713

Comments: ASL = Above Sea Level

GeoTest was on-site as requested to test the compaction of backfill material. The bottom 1'-2' of the pit was backfilled using pit run and the subsequent lifts were screenings. It should be noted that the proctor for the pitrun (Lab #5537) was not rock corrected. GeoTest noted that the compacted pitrun appeared to be firm and unyielding. All density tests attained the required compaction and the contractor was notified.

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FIELD DENSITY/MOISTURE REPORT

Nuclear Gauge * ASTM D6938

PROJECT:	Cornet Bay Marina Remediation	JOB #:	14-0010
ADDRESS:	251 Cornet Bay Road, Oak Harbor, WA	REPORT #:	FD002
PERMIT #:		DATE:	2/14/2014
CLIENT:	Glacier Environmental Services	PAGE #:	1 of 1
CONTRACTOR:	Glacier Environmental Services	INSPECTOR:	Joe Goshorn-Maroney

Compaction Of: Area 4 and 2 Backfill

Field Data:

Test #	Location	Depth/Elev (ft)	DT/BS (in)	Wet Density (pcf)	Field Moisture (%)	Dry Density (pcf)	Lab #	Compaction %		Pass/Fail
								Attained	Required	
1	Area 4 SW side	6.5 ASL	DT/12	141.5	5.7	133.0	1	100	95	P
2	Area 4 NE side	6.5 ASL	DT/12	139.5	5.1	132.7	1	99	95	P
3	Area 2 SE side	6 ASL	DT/12	140.8	5.3	133.8	1	100	95	P
5	Area 4 SW side	7.5 ASL	DT/12	144.6	6.4	135.9	2	100	95	P
6	Area 4 NE side	7.5 ASL	DT/12	141.8	6.4	133.2	2	98	95	P
7	Area 2 Center	7 ASL	DT/12	143.1	6.3	134.6	2	99	95	P

Lab Sample #	Soil Type	Source	Max. Dry Density (pcf)	Optimum Moisture (%)	Retained On #4 (%)	Test Method
1-5537	PGG w/ S	CNW - Boulder Pit	133.6	7.7	64	ASTM D1557/D4718
2-5538	PGS w/ S&G	CNW - Boulder Pit	136.2	7.0	44	ASTM D1557/D4718
3-			0.0			None

Gauge Make/Model/Serial#: Troxler / 3440P/ 60559 M/D Standard Count: 653 / 2801

Comments: ASL = Above Sea Level

GeoTest was on-site as requested to test the compaction of backfill material. The bottom first two lifts of Area's 2 and 4 were pit run and the subsequent lifts were screenings. It should be noted that the proctor for the pitrun (Lab #5537) was not rock corrected. GeoTest noted that the compacted pitrun appeared to be firm and unyielding. All density tests attained the required compaction and the contractor was notified.

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FIELD DENSITY/MOISTURE REPORT

Nuclear Gauge * ASTM D6938

PROJECT:	Cornet Bay Marina Remediation	JOB #:	14-0010
ADDRESS:	251 Cornet Bay Road, Oak Harbor, WA	REPORT #:	FD003
PERMIT #:		DATE:	2/17/2014
CLIENT:	Glacier Environmental Services	PAGE #:	1 of 1
CONTRACTOR:	Glacier Environmental Services	INSPECTOR:	Joe Goshorn-Maroney

Compaction Of: Import Backfill (screenings)

Field Data:

Test #	Location	Depth/Elev (ft)	DT/BS (in)	Wet Density (pcf)	Field Moisture (%)	Dry Density (pcf)	Lab #	Compaction %		Pass/Fail
								Attained	Required	
1	Area 4	9.5 ASL	DT/12	141.2	6.5	132.6	1	97	95	P
2	Area 4	10 ASL	DT/12	141.7	7.1	132.2	1	97	95	P
3	Area 4	11 ASL	DT/12	142.4	6.5	133.6	1	98	95	P
4	Area 2	11 ASL	DT/12	140.6	6.6	131.9	1	97	95	P
5	Area 4	12 ASL	DT/12	139.5	6.6	130.8	1	96	95	P
6	Area 2	12 ASL	DT/12	144.2	6.5	135.5	1	99	95	P
7	Area 2	12.5 ASL	DT/12	142.2	6.2	134.2	1	99	95	P
8	Area 4	13 ASL	DT/12	143.7	7.1	134.2	1	99	95	P

Lab Sample #	Soil Type	Source	Max. Dry Density (pcf)	Optimum Moisture (%)	Retained On #4 (%)	Test Method
1-5538	PGS w/ S&G	CNW - Boulder Pit	136.2	7.0	44	ASTM D1557/D4718
2-			0.0			None
3-			0.0			None

Gauge Make/Model/Serial#: Troxler / 3440P / 62856 M/D Standard Count: 656 / 2356

Comments: GeoTest was on-site as requested to test the compaction of import backfill material (screenings). All density tests attained the required compaction and the contractor was notified.

Per Kennedy and Jenks request, the contractor attempted to re-use clean native material as backfill in one location. In Area 2 at elevation 10' ASL, the contractor placed a single 1' lift on the Northwest side. GeoTest observed the material to be over-saturated, containing organic matter and 6-12" clay balls. The native material was also pumping under the roller. It was GeoTest's opinion that this material was not suitable as backfill.

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FIELD DENSITY/MOISTURE REPORT

Nuclear Gauge * ASTM D6938

PROJECT:	Cornet Bay Marina Remediation	JOB #:	14-0010
ADDRESS:	251 Cornet Bay Road, Oak Harbor, WA	REPORT #:	FD004
PERMIT #:		DATE:	2/19/2014
CLIENT:	Glacier Environmental Services	PAGE #:	1 of 1
CONTRACTOR:	Glacier Environmental Services	INSPECTOR:	Joe Goshorn-Maroney

Compaction Of: Import Fill in Area 3

Field Data:

Test #	Location	Depth/Elev (ft)	DT/BS (in)	Wet Density (pcf)	Field Moisture (%)	Dry Density (pcf)	Lab #	Compaction %		Pass/Fail
								Attained	Required	
1	Area 4 Southside Trench	12 ASL	DT/12	142.4	6.6	133.5	2	98	95	P
2	Area 3	6 ASL	DT/12	141.7	6.2	133.4	1	100	95	P
3	Area 3	6 ASL	DT/12	141.1	6.0	133.1	1	100	95	P
4	Area 3	7 ASL	DT/12	138.2	6.6	129.6	2	95	95	P
5	Area 3	7 ASL	DT/12	140.5	6.5	132.0	2	97	95	P
6	Area 3	9 ASL	DT/12	138.9	6.7	130.2	2	96	95	P
7	Area 3	9 ASL	DT/12	141.6	6.3	133.2	2	98	95	P
8	Area 3	10 ASL	DT/12	137.6	6.0	129.9	2	95	95	P
9	Area 3	10 ASL	DT/12	140.1	6.6	131.4	2	96	95	P

Lab Sample #	Soil Type	Source	Max. Dry Density (pcf)	Optimum Moisture (%)	Retained On #4 (%)	Test Method
1-5537	PGG w/S	CNW - Boulder Pit	133.6	7.7	64	ASTM D1557/D4718
2-5538	PGS w/ S&G	CNW - Boulder Pit	136.2	7.0	44	ASTM D1557/D4718
3-			0.0			None

Gauge Make/Model/Serial#: Troxler / 3440P / 62856

M/D Standard Count: 648 / 2343

Comments: ASL = Above Sea Level

GeoTest was on-site as requested to test the compaction of import fill being used in Area 3. The contractor placed 2' of pitrun (Lab # 5537, tests 2 and 3) as sub grade at the base of the excavation. Subsequent lifts of material were screenings (Lab # 5538) and placed in 1' increments.

All tests attained the required compaction.

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FIELD DENSITY/MOISTURE REPORT

Nuclear Gauge * ASTM D6938

PROJECT:	Cornet Bay Marina Remediation	JOB #:	14-0010
ADDRESS:	251 Cornet Bay Road, Oak Harbor, WA	REPORT #:	FD005
PERMIT #:		DATE:	2/24/2014
CLIENT:	Glacier Environmental Services	PAGE #:	1 of 1
CONTRACTOR:	Glacier Environmental Services	INSPECTOR:	Ryan O'Connor

Compaction Of: Import Backfill for Area 2

Field Data:

Test #	Location	Depth/ Elev (ft)	DT/ BS (in)	Wet Density (pcf)	Field Moisture (%)	Dry Density (pcf)	Lab #	Compaction %		Pass/ Fail
								Attained	Required	
1	Area 2, 10' Off Wall, North End	11.5	12	143.3	6.9	134.1	1	98	95	P
2	Area 2, 16' Off Wall, South End	11.5	12	144.9	9.4	132.5	1	97	95	P
3	Area 2, 7' Off Wall, C/O	11.5	12	146.2	6.9	136.7	1	100	95	P
4	Area 2, 12' Off Wall, North End	8	12	148.5	7.5	138.1	1	101	95	P
5	8' Off Wall, South End	7	12	144.9	7.0	135.4	1	99	95	P

Lab Sample #	Soil Type	Source	Max. Dry Density (pcf)	Optimum Moisture (%)	Retained On #4 (%)	Test Method
1-5538-2	PGS w/G	CNW - Boulder Hill Pit	136.2	7.0	44	ASTM D1557/D4718
2-			0.0			None
3-			0.0			None

Gauge Make/Model/Serial#: 3440P/60559 M/D Standard Count: 645/2801

Comments: GeoTest was on site to perform in place density tests at the above locations as requested by the client. All tests recorded above attained the required compaction. Results 3 and 4 attained compaction greater than 99 percent, these results may be due to a higher gravel content in this area, thus resulting in minor drift in the proctor value of the material.

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FIELD DENSITY/MOISTURE REPORT

Nuclear Gauge * ASTM D6938

PROJECT:	Cornet Bay Marina Remediation	JOB #:	14-0010
ADDRESS:	251 Cornet Bay Road, Oak Harbor, WA	REPORT #:	FD006
PERMIT #:		DATE:	2/27/2014
CLIENT:	Glacier Environmental Services	PAGE #:	1 of 1
CONTRACTOR:	Glacier Environmental Services	INSPECTOR:	Joe Goshorn-Maroney

Compaction Of: Import Backfill - Area 5

Field Data:

Test #	Location	Depth/ Elev (ft)	DT/ BS (in)	Wet Density (pcf)	Field Moisture (%)	Dry Density (pcf)	Lab #	Compaction %		Pass/ Fail
								Attained	Required	
1	Area 5 W side	7 ASL	DT/12	140.6	7.1	131.3	1	98	95	P
2	Area 5 NW Corner	8 ASL	DT/12	139.5	6.7	130.5	1	98	95	P
3	Area 5 E side	8 ASL	DT/12	144.1	7.8	133.7	2	98	95	P
4	Area 5 Center	9 ASL	DT/12	138.4	6.2	130.3	2	96	95	P

Lab Sample #	Soil Type	Source	Max. Dry Density (pcf)	Optimum Moisture (%)	Retained On #4 (%)	Test Method
1-5537	PGG w/S	CNW - Boulder Hill Pit	133.3	7.7	64	ASTM D1557/D4718
2-5538-2	PGS w/G	CNW - Boulder Hill Pit	136.3	7.0	44	None
3-			0.0			None

Gauge Make/Model/Serial#: Troxler / 3440P / 60559 M/D Standard Count: 632 / 2796

Comments: ASL = Above Sea Level

GeoTest was on-site as requested to test the compaction of import backfill in Area 5. The contractor placed and compacted one 2' lift of subgrade material (Lab Sample 5537) then proceeded to place screenings (5538-2) in 1-2' lifts over the subgrade.

All tests attained the required compaction.

COPIES: Glacier Environmental Services

Kevin Richardson
Reviewed by



FIELD DENSITY/MOISTURE REPORT

Nuclear Gauge * ASTM D6938

PROJECT:	Cornet Bay Marina Remediation	JOB #:	14-0010
ADDRESS:	251 Cornet Bay Road, Oak Harbor, WA	REPORT #:	FD007
PERMIT #:		DATE:	3/7/2014
CLIENT:	Glacier Environmental Services	PAGE #:	1 of 1
CONTRACTOR:	Glacier Environmental Services	INSPECTOR:	Joe Goshorn-Maroney

Compaction Of: Area 5E - Import Backfill

Field Data:

Test #	Location	Depth/ Elev (ft)	DT/ BS (in)	Wet Density (pcf)	Field Moisture (%)	Dry Density (pcf)	Lab #	Compaction %		Pass/ Fail
								Attained	Required	
1	Area 5E Eastside	6 ASL	DT/12	140.4	5.9	132.6	1	99	95	P
2	Area 5E Westside	6 ASL	DT/12	137.4	5.6	130.1	1	98	95	P
3	Area 5E	7 ASL	DT/12	140.6	6.6	132.0	2	97	95	P
4	Area 5E	8 ASL	DT/12	139.9	7.0	130.8	2	96	95	P
5	Area 5E	9 ASL	DT/12	139.3	5.9	131.5	2	96	95	P
6	Area 5E	10 ASL	DT/12	139.0	7.1	129.8	2	95	95	P

Lab Sample #	Soil Type	Source	Max. Dry Density (pcf)	Optimum Moisture (%)	Retained On #4 (%)	Test Method
1-5537	PGG w/S	CNW - Boulder Pit	133.3	7.7	64	ASTM D1557/D4718
2-5538-2	PGS w/G	CNW - Boulder Pit	136.3	7.0	44	ASTM D1557/D4718
3-			0.0			None

Gauge Make/Model/Serial#: Troxler / 3440 / 67887 M/D Standard Count: 742 / 2737

Comments: ASL = Above Sea Level

GeoTest was on-site as requested to test the compaction of import backfill on the East side of Area 5. The contractor placed and compacted one 2' lift of subgrade material (Lab Sample 5537) then proceeded to place screenings (5538-2) in 1-2' lifts over the subgrade.

All tests attained the required compaction.

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FIELD DENSITY/MOISTURE REPORT

Nuclear Gauge * ASTM D6938

PROJECT: Cornet Bay Marina Remediation	JOB #: 14-0010
ADDRESS: 251 Cornet Bay Road, Oak Harbor, WA	REPORT #: FD008
PERMIT #:	DATE: 3/10/2014
CLIENT: Glacier Environmental Services	PAGE #: 1 of 1
CONTRACTOR: Glacier Environmental Services	INSPECTOR: Joe Goshorn-Maroney

Compaction Of: Area 5E - Import Backfill

Field Data:

Test #	Location	Depth/ Elev (ft)	DT/ BS (in)	Wet Density (pcf)	Field Moisture (%)	Dry Density (pcf)	Lab #	Compaction %		Pass/ Fail
								Attained	Required	
1	Area 5E	11 ASL	DT/12	142.2	5.9	134.3	1	99	95	P

Lab Sample #	Soil Type	Source	Max. Dry Density (pcf)	Optimum Moisture (%)	Retained On #4 (%)	Test Method
1-5538-2	PGS w/G	CNW - Boulder	136.3	7.0	44	ASTM D1557/D4718
2-			0.0			None
3-			0.0			None

Gauge Make/Model/Serial#: Troxler / 3440 / 67887 M/D Standard Count: 742 / 2739

Comments: ASL = Above Sea Level

GeoTest was on-site as requested to test compaction on import backfill in Area 5E.

All tests attained the required compaction.

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The above test results relate only to the sample (or location) tested.



FIELD DENSITY/MOISTURE REPORT

Nuclear Gauge * ASTM D6938

PROJECT: Cornet Bay Marina Remediation	JOB #: 14-0010
ADDRESS: 251 Cornet Bay Road, Oak Harbor, WA	REPORT #: FD009
PERMIT #:	DATE: 3/13/2014
CLIENT: Glacier Environmental Services	PAGE #: 1 of 2
CONTRACTOR: Glacier Environmental Services	INSPECTOR: Joe Goshorn-Maroney

Compaction Of: Import Fill in Areas 5 of 6

Field Data:

Test #	Location	Depth/ Elev (ft)	DT/ BS (in)	Wet Density (pcf)	Field Moisture (%)	Dry Density (pcf)	Lab #	Compaction %		Pass/ Fail
								Attained	Required	
1	Area 6 W side	6 ASL	Dt/12	143.8	6.0	135.6	1	99	95	P
2	Area 6 E side	6 ASL	Dt/12	140.5	5.2	133.6	1	98	95	P
3	Area 6 E side	8 ASL	Dt/12	140.9	7.0	131.6	1	97	95	P
4	Area 6 W side	8 ASL	Dt/12	142.7	6.5	134.0	1	98	95	P
5	Area 6 E side	9 ASL	Dt/12	143.0	7.3	133.3	1	98	95	P
6	Area 6 W side	10 ASL	Dt/12	139.5	6.7	130.7	1	96	95	P
7	Area 6 E side	10 ASL	Dt/12	142.0	6.9	132.8	1	97	95	P
8	Area 6 W side	11 ASL	Dt/12	142.8	6.8	133.7	1	98	95	P
9	Area 6 E side	11 ASL	Dt/12	139.7	6.1	131.7	1	97	95	P
10	Area 6 E side	12 ASL	Dt/12	142.2	6.4	133.6	1	98	95	P
11	Area 5 E side	13 ASL	Dt/12	139.5	6.5	130.8	1	96	95	P
12	Area 5 Building Pad E	14 ASL	Dt/12	146.0	6.7	136.7	1	100	95	P
13	Area 5 Building Pad W	14 ASL	Dt/12	148.1	6.5	139.1	1	102	95	P

Lab Sample #	Soil Type	Source	Max. Dry Density (pcf)	Optimum Moisture (%)	Retained On #4 (%)	Test Method
1-5538-2	WGS w/G	CNW - Boulder Pit	136.3	7.3	44	ASTM D1557/D4718
2-			0.0			None
3-			0.0			None

Gauge Make/Model/Serial#: Troxler / 3440 / 67887

M/D Standard Count: 742 / 2737

Comments: ASL = Above Sea Level

GeoTest was on-site as requested to test the compaction of import fill being placed in Area 6 and under the building pad in Area 5. All tests attained the required compaction and the client was notified.

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FIELD DENSITY/MOISTURE REPORT

Nuclear Gauge * ASTM D6938

PROJECT:	Cornet Bay Marina Remediation	JOB #:	14-0010
ADDRESS:	251 Cornet Bay Road, Oak Harbor, WA	REPORT #:	FD010
PERMIT #:		DATE:	3/17/2014
CLIENT:	Glacier Environmental Services	PAGE #:	1 of 1
CONTRACTOR:	Glacier Environmental Services	INSPECTOR:	Joe Goshorn-Maroney

Compaction Of: Area 7 Subgrade

Field Data:

Test #	Location	Depth/ Elev (ft)	DT/ BS (in)	Wet Density (pcf)	Field Moisture (%)	Dry Density (pcf)	Lab #	Compaction %		Pass/ Fail
								Attained	Required	
1	Area 7 Westside	6 ASL	DT/12	143.1	7.4	133.2	1	100	95	P
2	Area 7 Eastside	6 ASL	DT/8	141.6	7.2	132.1	1	99	95	P
3	Area 7 NW of Vault	6 ASL	DT/12	147.8	7.8	137.1	1	103	95	P
4	Area 7 NE of Vault	6 ASL	DT/12	144.9	7.0	135.4	1	101	95	P

Lab Sample #	Soil Type	Source	Max. Dry Density (pcf)	Optimum Moisture (%)	Retained On #4 (%)	Test Method
1-5537	PGG w/Sand	CNW - Boulder Pit	133.6	7.7	64	ASTM D1557/D4718
2-			0.0			None
3-			0.0			None

Gauge Make/Model/Serial#: Troxler / 3430 / 19417 M/D Standard Count: 553 / 1776

Comments: ASL = Above Sea Level

GeoTest was on-site as requested to test the compaction of subgrade material being placed in Area 7.

All tests attained the required compaction.

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The above test results relate only to the sample (or location) tested.



FIELD DENSITY/MOISTURE REPORT

Nuclear Gauge * ASTM D6938

PROJECT:	Cornet Bay Marina Remediation	JOB #:	14-0010
ADDRESS:	251 Cornet Bay Road, Oak Harbor, WA	REPORT #:	FD011
PERMIT #:		DATE:	3/18/2014
CLIENT:	Glacier Environmental Services	PAGE #:	1 of 2
CONTRACTOR:	Glacier Environmental Services	INSPECTOR:	Joe Goshorn-Maroney

Compaction Of: Backfill - Area 7

Field Data:

Test #	Location	Depth/ Elev (ft)	DT/ BS (in)	Wet Density (pcf)	Field Moisture (%)	Dry Density (pcf)	Lab #	Compaction %		Pass/ Fail
								Attained	Required	
1	Area 7 East	7 ASL	DT/12	142.1	6.6	133.3	1	98	95	P
2	Area 7 N of Vault	7 ASL	DT/12	141.6	7.1	132.2	1	97	95	P
3	Area 7 West	7 ASL	DT/12	139.9	6.8	130.9	1	96	95	P
4	Area 7 N of Vault	8 ASL	DT/12	139.1	7.9	128.9	1	95	95	P
5	Area 7 West	8 ASL	DT/12	139.7	6.4	132.7	1	97	95	P
6	Area 7 West	9 ASL	DT/12	139.1	7.0	130.3	1	96	95	P
7	Area 7 East	9 ASL	DT/12	137.5	6.3	129.8	1	95	95	P
8	Area 7 East	10 ASL	DT/12	142.6	7.1	133.1	1	98	95	P
9	Area 7 West	10 ASL	DT/12	138.6	6.7	130.0	1	95	95	P
10	Area 7 East	11 ASL	DT/12	143.2	7.4	135.2	1	99	95	P
11	Area 7 West	11 ASL	DT/12	139.6	7.0	130.5	1	96	95	P
12	Area 7 West	12 ASL	DT/12	141.3	6.9	132.2	1	97	95	P
13	Area 7 East	12 ASL	DT/12	145.8	7.4	135.8	1	100	95	P

Lab Sample #	Soil Type	Source	Max. Dry Density (pcf)	Optimum Moisture (%)	Retained On #4 (%)	Test Method
1-5538-2	PGS w/G	CNW - Boulder Pit	136.3	7.0	44	ASTM D1557/D4718
2-			0.0			None
3-			0.0			None

Gauge Make/Model/Serial#: Troxler / 3440 / 67887

M/D Standard Count: 748 / 2712

Comments: ASL = Above Sea Level

GeoTest was on-site as requested to test the compaction of backfill being placed in Area 7. All tests attained the required compaction.

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FIELD DENSITY/MOISTURE REPORT

Nuclear Gauge * ASTM D6938

PROJECT:	Cornet Bay Marina Remediation	JOB #:	14-0010
ADDRESS:	251 Cornet Bay Road, Oak Harbor, WA	REPORT #:	FD012
PERMIT #:		DATE:	3/21/2014
CLIENT:	Glacier Environmental Services	PAGE #:	1 of 1
CONTRACTOR:	Glacier Environmental Services	INSPECTOR:	Danny Goger

Compaction Of: Backfill - Area 6 - Behind East Sheet Pile Wall

Field Data:

Test #	Location	Depth/Elev (ft)	DT/BS (in)	Wet Density (pcf)	Field Moisture (%)	Dry Density (pcf)	Lab #	Compaction %		Pass/Fail
								Attained	Required	
1	Pothole Location - (120' W of E Pile End / 10' Wall Offset)	5.5 ASL	DT/12	148.4	9.3	135.8	1	100	95	P
2	Pothole Location - (120' W of E Pile End / 10' Wall Offset)	7.5 ASL	DT/12	144.9	8.7	133.3	1	98	95	P
3	Pothole Location - (75' W of E Pile End / 6' Wall Offset)	10 ASL	DT/12	147.1	7.8	136.5	1	100	95	P
4	Pothole Location - (75' W of E Pile End / 6' Wall Offset)	8.5 ASL	DT/12	147.1	7.2	137.2	1	101	95	P
5	Pothole Location - (75' W of E Pile End / 6' Wall Offset)	5.5 ALS	DT/12	142.6	8.0	132.1	1	97	95	P
6	140' W of E Sheet Pile End / 6' Wall Offset	10 ASL	DT/12	145.4	8.6	133.9	1	98	95	P
7	65' W of E Sheet Pile End / 6' Wall Offset	10 ASL	DT/12	148.1	7.1	138.4	1	102	95	P
8	25' W of E Sheet Pile End / 6' Wall Offset	12 ASL	DT/12	150.0	7.6	139.4	1	102	95	P
9	160' W of E Sheet Pile End / 25' Wall Offset	11 ASL	DT/12	145.2	8.2	134.3	1	99	95	P
10	100' W of E Sheet Pile End / 20' Wall Offset	11 ASL	DT/12	141.8	6.3	133.4	1	98	95	P
11	55' W of E Sheet Pile End / 17' Wall Offset	11 ASL	DT/12	141.6	7.8	131.4	1	96	95	P

Lab Sample #	Soil Type	Source	Max. Dry Density (pcf)	Optimum Moisture (%)	Retained On #4 (%)	Test Method
1-5538-2	PGS w/G	CNW - Boulder Pit	136.2	7.0	44	ASTM D1557/D4718
2-			0.0			None
3-			0.0			None

Gauge Make/Model/Serial#: Troxler/3430/19417 M/D Standard Count: 565/1766

Comments: ASL = Above Sea Level

GeoTest Services Inc., was on-site as requested to test the compaction of backfill behind the East sheet pile wall in Area 6. Upon arrival, the contractor had placed several feet of compacted import material to an approximate elevation of 8-10' ASL. Prior to continuing import of material above this elevation, GeoTest performed two pot-holes to check compaction of the underlying soils. All tests attained compaction in the potholes (See Test 1 - 5). GeoTest observed the contractor placing the import soil in approximately 6-12" loose lifts and thoroughly compacting with a large vibratory smooth drum roller.

All tests attained the required compaction.

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Grant Richardson
Reviewed by



FIELD DENSITY/MOISTURE REPORT

Nuclear Gauge * ASTM D6938

PROJECT:	Cornet Bay Marina Remediation	JOB #:	14-0010
ADDRESS:	251 Cornet Bay Road, Oak Harbor, WA	REPORT #:	FD013
PERMIT #:		DATE:	4/3/2014
CLIENT:	Glacier Environmental Services	PAGE #:	1 of 1
CONTRACTOR:	Glacier Environmental Services	INSPECTOR:	John Silk

Compaction Of: Import Structural Fill

Field Data:

Test #	Location	Depth/ Elev (ft)	DT/ BS (in)	Wet Density (pcf)	Field Moisture (%)	Dry Density (pcf)	Lab #	Compaction %		Pass/ Fail
								Attained	Required	
1	Dumpster N. Side	TOG	DT/12"	137.4	4.8	131.1	1	96	95	P
2	Dumpster S. Side	TOG	DT/12"	139.0	5.3	132.1	1	97	95	P
3	Building Pad E. Side	TOG	DT/12"	142.2	5.7	134.6	1	99	95	P
4	Building Pad Center	TOG	DT/12"	140.4	4.9	133.9	1	98	95	P
5	Building Pad W. Side	TOG	DT/12"	143.3	6.2	135.0	1	99	95	P
6	Building Pad Footings N.	TOG	DT/12"	144.0	7.7	133.7	1	98	95	P
7	Building Pad Footings E.	TOG	DT/12"	136.2	5.4	129.3	1	95	95	P
8	Building Pad Footings S.	TOG	DT/12"	141.3	5.8	133.6	1	98	95	P
9	Building Pad Footings W.	TOG	DT/12"	138.7	5.4	131.6	1	97	95	P
10	Parking Lot W. Side	TOG	DT/12"	144.6	3.7	139.5	2	100	95	P
11	Parking Lot E. Side	TOG	DT/12"	136.6	2.8	132.8	2	95	95	P
12	West Property, E. Side	-2'	DT/12"	143.4	6.4	134.7	1	99	95	P
13	West Property, Center	-1'	DT/12"	144.9	6.4	136.2	1	100	95	P

Lab Sample #	Soil Type	Source	Max. Dry Density (pcf)	Optimum Moisture (%)	Retained On #4 (%)	Test Method
1-5538	PGS w/G	CNW - Boulder Hill	136.2	7.0	44	ASTM D1557/D4718
2-B13-701	WGS w/G	CNW - Boulder Hill	139.2	7.8		ASTM D1557/D4718
3-			0.0			None

Gauge Make/Model/Serial#: Troxler/3440/29778	M/D Standard Count: 611/2059
--	------------------------------

Comments: Tog = Top of Grade

GeoTest was on-site as requested to test the compaction of import fill being placed. All tests attained the required compaction and the client was notified.

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Grant Richardson
Reviewed by



Cornet Bay Marina
Pneumricator leak detection system installation

On June 18th 2014 The Pneumricator model number LC-2000 Leak detection system located at the Cornet Bay Marina was installed, One leak sensor in the transition sump and one sensor in the fuel tank storage vault were set at approximately 1.5 inches above the bottom.

Both sensors were tested for H2O and Fuel alarm communication to the alarm panel. Both sensors passed testing.

Thayne Wastman

A handwritten signature in black ink, appearing to read "Thayne Wastman", written in a cursive style.

Pressure Test Report

Site Name: Cornet Bay

Date	Pipe/Tank ID	Type of Test Required	PSI	Start	Stop	Result
5/9/2014	Transition Sump	Hydrostatic 24HR				Pass
6/10/2014	Primary Gasoline	50-100 PSI Air 1HR	60	15:00	16:00	Pass
6/10/2014	Primary Diesel	50-100 PSI Air 1HR	60	15:00	16:00	Pass
6/10/2014	Secondary Gasoline	5-10 PSI Air 1 HR	6	14:30	15:30	Pass
6/10/2014	Secondary Diesel	5-10 PSI Air 1 HR	6	14:30	15:30	Pass

Date: June 10, 2014

Tested By Thayne Westman



Signature



3161 Goldie Rd, Suite E
Oak Harbor, WA 98277

Date: 6/12/2014

Project: Cornet Bay Septic Tanks

Glacier Environmental Services, Inc
PO Box 1097
Mukilteo, WA 98275
Attn: Alan Hall, Manager

RE: Final Septic System Testing

Mr Hall:

On June 11, 2014 we conducted our final testing of the septic tank and duplex pump installation for the above referenced project. During that testing each effluent pump was manually operated for approximately ten minutes each. Each of the two Goulds PE51 pumps yielded a drawdown of approximately 0.8 inches per minute. Based on the dimensions of the pump tank the gallons per inch is approximately 22 gallons/inch of tank, which equates to a pump flow of 17.6 gallons per minute.

The original mound system that serves this structure, ASB 489-90M, was permitted for a peak flow of 360GPD. Using the current standard testing procedures by Island County Public Health the dose timer that controls the new pumps was set up to provide a normal flow of 270GPD and a peak flow of 360GPD.

The normal dosing regime is a 45 gallon dose six times per day. Based on the performed drawdown of 17.6 gallons per minute the programmed dose timing is 2 minutes 30 seconds on time, and 240 minute off time.

The peak dosing regime is a 60 gallon dose six times per day. Based on the performed drawdown of 17.6 gallons per minute the programmed dose timing is 3 minutes 24 seconds on time, and 240 minute off time.

There are no lateral flushouts/testing ports on the original drainfield and therefore the residual head could not be measured.

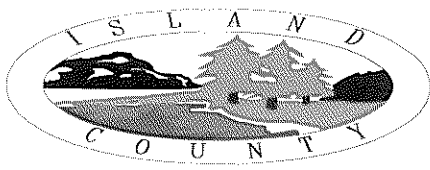
Since this control panel is time dosed any water use over the original permitted flows will trigger an alarm.

Please let me know if you have any additional questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Jason Gentry".

Jason Gentry
Vice President



Property Owner: Cornet Bay Marina As-Built #: _____

Island County Health Department

PO Box 5000 Coupeville WA 98239

Parcel # R13436-517-2500

Septic System As-Built

Provide Accurate Plot Plan to Scale Including but not Limited to:

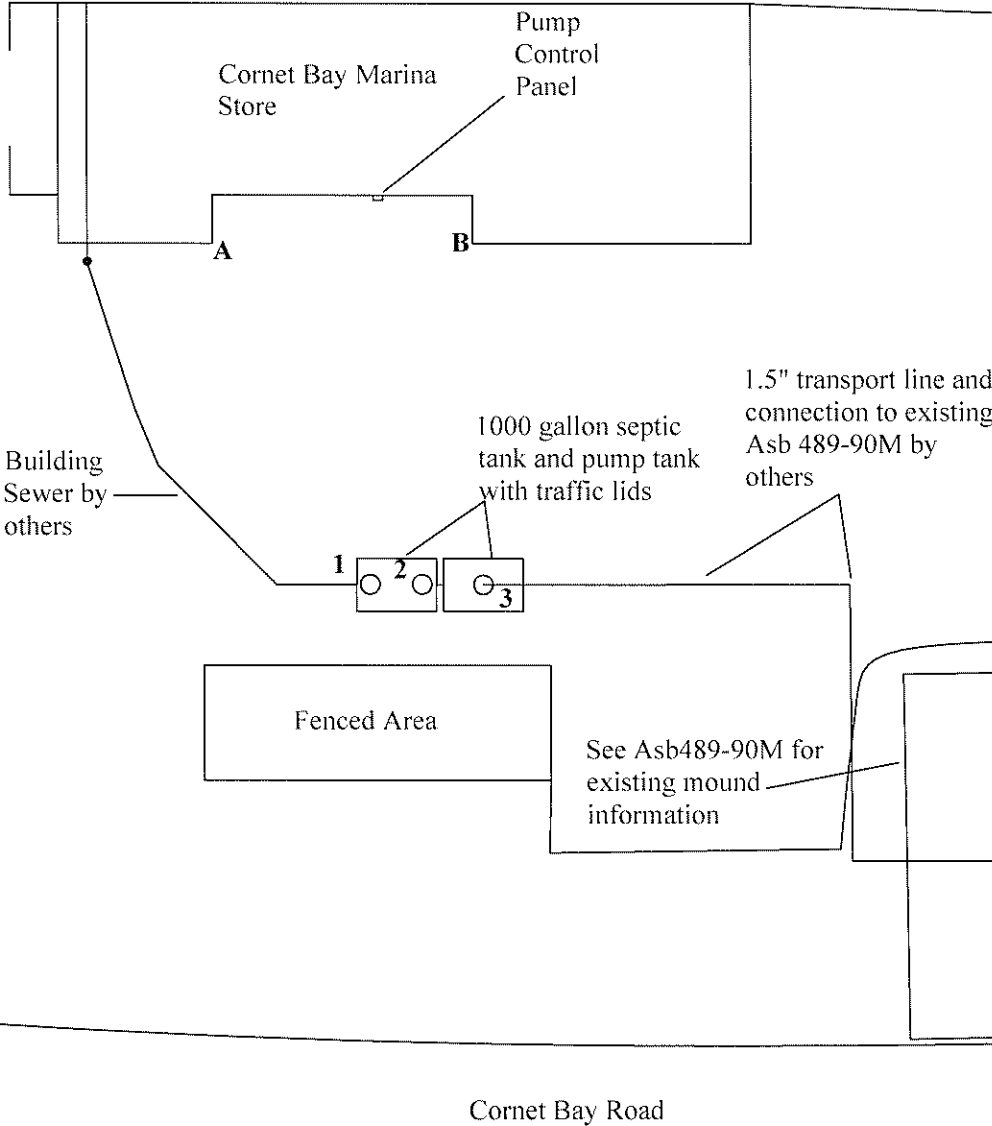
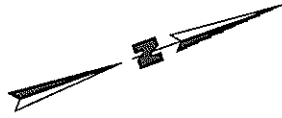
Drainfields, wells, tanks, banks, buildings, roads, utilities, easements, property lines, critical areas, etc.

ASBUILT CERTIFICATION ONLY

Scale 1 inch = 20 ft

North arrow

ASBUILT CERTIFICATION ONLY



Lead Pump	
Timed Dosed:	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Pump Model:	Goulds PE51
HP:	0.5
Run Time:	** 2m 30s / 3m 24s
Off Time:	240 min
Volume:	** 45 / 60 gal
Secondary Pump	
Timed Dosed:	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Pump Model:	Goulds PE51
HP:	0.5
Run Time:	** 2m 30s / 3m 24s
Off Time:	240 min
Volume:	** 45 / 60 gal
Pressure, Drip and Mound Info	
Lateral length(s):	#1 _____ #2 _____ #3 _____
	#4 _____ #5 _____ #6 _____
Orifice Size:	_____ in
Head/Pressure:	_____ in / lbs
# of Orifices/Emitters:	_____
Sand Filter Information	
Square Feet:	_____
Residual Head:	_____ in
Orifice Size:	_____ in
Number of Orifices:	_____
Aerobic Treatment Info	
Brand:	_____
Model:	_____
Disinfection:	<input type="checkbox"/> UV <input type="checkbox"/> Other
Glendon Info	
Basal Area:	_____ sq ft
Final Dimension:	_____
Tank Information	
Manufacturer:	_____
Septic Tank Size:	_____ gal
Pump Tank Size:	_____ gal
Drainfield Info	
Square Feet:	_____
Length:	_____ ft
Width:	_____ ft
Depth:	_____ in

** Run times / dose volumes are based on a normal setting of 270 GPD, and a veto (peak) setting of 360 GPD

Aquaworx Duplex Alternating Control Panel

Drawdown performed of ~ 0.8" per minute, ~ 17.6 GPM

No Drainfield upgrades were made (ie installation of flushouts, inspection ports)

	A	B
Septic Tank 1	39'	37'
Septic Tank 2	42'	36.5'
Pump Tank 3	46'	36.5'

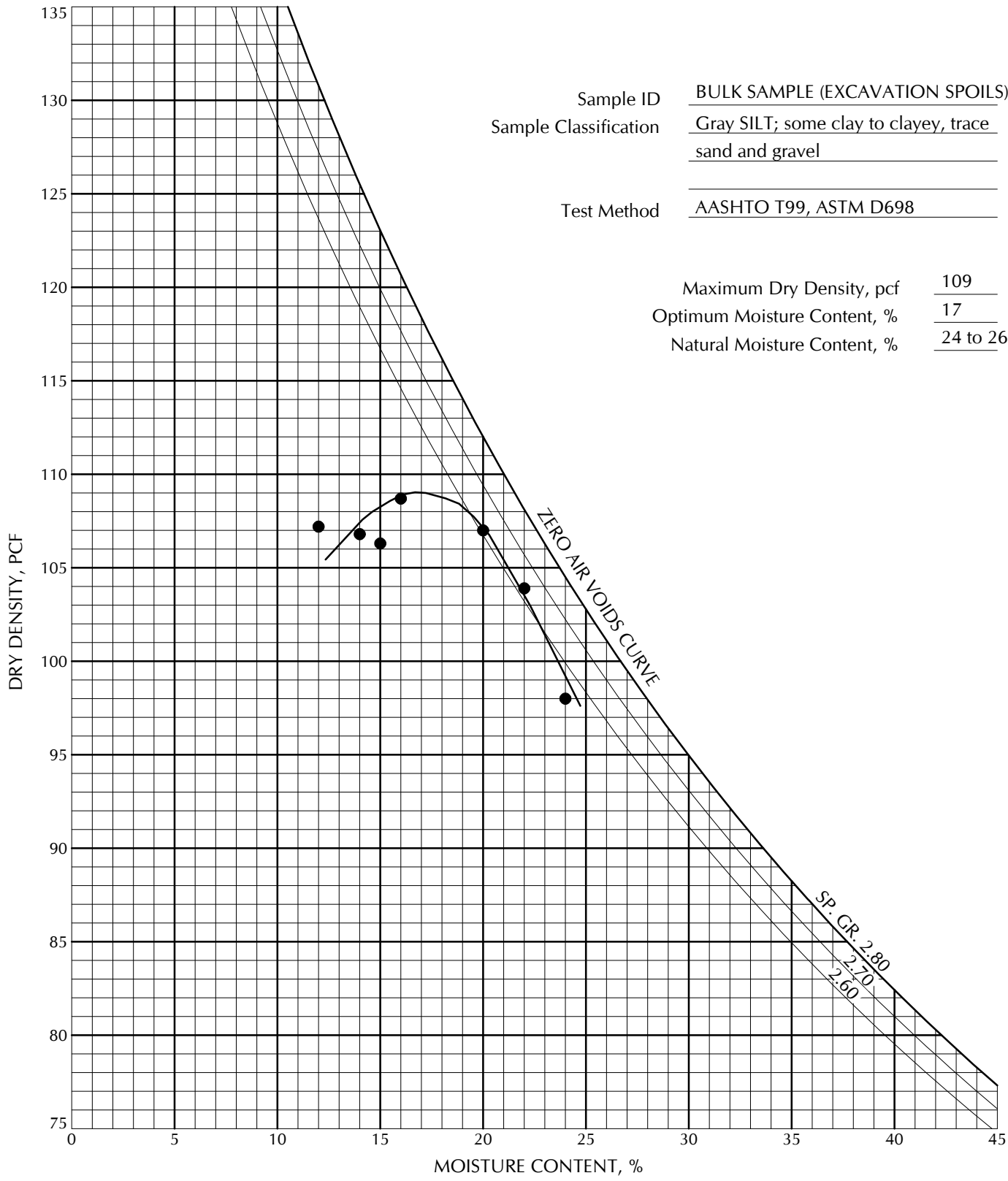
Comments:

New septic and pump tank installed to accomodate removal and replacement of Cornet Bay Marina Store under Department of Ecology contaminated soil cleanup project. See existing ASB 489-90M for information on existing mound drainfield.

I, the undersigned, personally inspected this On-site Sewage Disposal system and certify that it was installed in accordance with the approved design, including all requirements deemed necessary by all proprietary devises and this system fully complies with all conditions of ACC 8.07D.

Installers Signature: *Josiah Valdez*
VALDEZ CONSTRUCTION, INC

Date Installed: May 2, 2014



Sample ID BULK SAMPLE (EXCAVATION SPOILS)
Sample Classification Gray SILT; some clay to clayey, trace sand and gravel

Test Method AASHTO T99, ASTM D698

Maximum Dry Density, pcf 109
Optimum Moisture Content, % 17
Natural Moisture Content, % 24 to 26



COMPACTION TEST

Appendix K

Analytical Laboratory Reports
and Chain-of-Custody Documentation



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on February 3, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

4139 Libby Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Date: 2/3/14 Page: 1 of 1

Client: Kennedy Jenks Consultants

Project Manager: Ty Schreiner

Address:

Project Name: Cornet Bay

Phone: Fax:

Location: City: Oak Harbor

Client Project # 1396010*00

Collector: Roy Lopez Date of Collection: 2/3/14

Sample Number	Depth	Time	Sample Type	Container Type	Analytes											Field Notes		
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-Gx	NWTPH-Dx	PAH 8270	PCB's 8082	MTCA 5 Metals				
1 SP2-8		940	soil	2VOA, 4oz jar	✓				✓	✓								
2 SP2-9		950	↓	2VOA, 4oz jar	✓				✓	✓								
3 SP2-10		1000	↓	2VOA, 4oz jar	✓				✓	✓								
4 TPR-1		1035	↓	2VOA, 4oz jar	✓				✓	✓								
5 A02-1-12.5		1215	↓	"	✓				✓	✓								
6 A02-2-12.5		1225	↓	"	✓				✓	✓								
7 A02-3-12.5		1235	↓	"	✓				✓	✓								
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		

Relinquished by: <u>[Signature]</u>	Date / Time: <u>2/3/14 1527</u>	Received by: <u>[Signature]</u>	Date / Time: <u>2/3/14 1527</u>	Sample Receipt:	Remarks: <u>ML</u>		
Relinquished by:	Date / Time:	Received by:	Date / Time:			Good Condition?	
Relinquished by:	Date / Time:	Received by:	Date / Time:			Cold?	
Relinquished by:	Date / Time:	Received by:	Date / Time:			Seals Intact?	
				Total Number of Containers			

Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140203-30

Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	2/3/14	nd	nd	nd	nd	nd	79
LCS	2/3/14	86%	99%				109
SP2-8	2/3/14	nd	nd	nd	nd	nd	106
SP2-9	2/3/14	nd	nd	nd	nd	nd	111
SP2-10	2/3/14	nd	nd	nd	nd	nd	91
TPR-1	2/3/14	nd	nd	nd	nd	nd	100
TPR-1 Dup	2/3/14	nd	nd	nd	nd	nd	101
A02-1-12.5	2/3/14	nd	nd	nd	nd	nd	87
A02-2-12.5	2/3/14	nd	nd	nd	nd	nd	110
A02-3-12.5	2/3/14	nd	nd	nd	nd	nd	95
SP2-8 MS	2/3/14	94%	94%				105
SP2-8 MSD	2/3/14	89%	83%				99
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140203-30
Client Project # 1396010*00

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	2/3/14	100	nd	nd
SP2-8	2/3/14	90	nd	nd
SP2-9	2/3/14	104	nd	nd
SP2-10	2/3/14	101	nd	nd
SP2-10 Dup	2/3/14	109	nd	nd
TPR-1	2/3/14	99	nd	nd
TPR-1 Dup	2/3/14	109	nd	nd
A02-1-12.5	2/3/14	107	nd	nd
A02-2-12.5	2/3/14	114	nd	nd
A02-3-12.5	2/3/14	103	nd	nd
A02-3-12.5 Dup	2/3/14	102	nd	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on February 4, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Date: 2/3/14 ~~(2/19/14)~~ Page: 1 of 1

Client: Kennedy Jenks Consultants

Project Manager: Ty Schreiner

Address: _____

Project Name: Cornet Bay

City: _____ State: _____ Zip: _____

Location: _____ City, State: Oak Harbor, WA

Phone: _____ Fax: _____

Collector: Roy Lopez Date of Collection: 2/3/14-2/9/14

Client Project # 1396010 *00

Email: _____

Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes									
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-DX	PAH 8270	PCB's 8082	MTCAs 5 Metals										
1 A02-4-15		1510	SOIL	2 VOA, 402 jar	✓				✓	✓													sampled 2/3/14	
2 A02-Cal-0.4		1345	↓	" "	✓				✓	✓														
3 A02-Cal-0.2		1445	↓	" "	✓				✓	✓														
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16																								
17																								

Relinquished by: <u>[Signature]</u>	Date / Time: <u>2/4/14 1530</u>	Received by: <u>Paul Bunk</u>	Date / Time: <u>2/4/14 1530</u>	Sample Receipt:	Remarks: <u>ML</u>		
Relinquished by: _____	Date / Time: _____	Received by: _____	Date / Time: _____			Good Condition?	
Relinquished by: _____	Date / Time: _____	Received by: _____	Date / Time: _____			Cold?	
Relinquished by: _____	Date / Time: _____	Received by: _____	Date / Time: _____			Seals Intact?	
				Total Number of Containers	TAT: 24HR 48HR 5-DAY		

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law. Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140204-30

Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	2/4/14	nd	nd	nd	nd	nd	78
LCS	2/4/14	85%	87%				115
A02-4-15	2/4/14	0.10	nd	nd	nd	nd	84
A02-4-15 Dup	2/4/14	0.094	nd	nd	nd	nd	88
A02-Cal-0.4	2/4/14	0.032	nd	nd	nd	nd	93
A02-Cal-0.2	2/4/14	0.078	nd	nd	nd	nd	93
A02-4-15 MS	2/4/14	100%	102%				107
A02-4-15 MSD	2/4/14	84%	92%				91
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140204-30
Client Project # 1396010*00

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	2/4/14	98	nd	nd
A02-4-15	2/4/14	99	nd	nd
A02-4-15 Dup	2/4/14	112	nd	nd
A02-Cal-0.4	2/4/14	109	nd	nd
A02-Cal-0.4 Dup	2/4/14	112	nd	nd
A02-Cal-0.2	2/4/14	97	nd	nd
A02-Cal-0.2 Dup	2/4/14	109	nd	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on February 5, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

4139 Libby Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 2/4/14 - 2/5/14

Page: 1 of 1

Client: Kennedy/Jenks Consultants

Project Manager: Ty Schreiner

Address:

Project Name: Comet Bay

Phone: Fax:

Location: City: Oak Harbor WA

Client Project # 1396010*00

Collector: Ray Lopez Date of Collection: 2/4/14-2/5/14



Sample Number	Depth	Time	Sample Type	Container Type	Analytes											Field Notes		
					VOA 8021B	VOA 8021B BTEX Only	VOA 8280	SEMI VOL 8270	NWTPH-HCID	NWTPH-Gx	NWTPH-Dx	PAH 8270	PCB's 8082	MTCA 5 Metals				
1 A02-Cal-0-22		1515		2VOA/4022R	✓				✓	✓								Sampled 2/4/14
2 A02-5-16	16	1705	SOIL	2VOA/4022R	✓				✓	✓								" "
3 A02-6-16	16	1715	SOIL	2VOA/4022R	✓				✓	✓								" "
4 A02-Cal5-0.2		0930	SOIL	2VOA/par	✓				✓	✓								Sampled 2/5/14
5 A02-7-17	17	1309	SOIL	2VOA/par	✓				✓	✓								" "
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		

Relinquished by:	Date / Time: 2/5/14 1540	Received by:	Date / Time: 2/5/14 1540	Sample Receipt:	Remarks: ML	
Relinquished by:	Date / Time:	Received by:	Date / Time:			Good Condition?
Relinquished by:	Date / Time:	Received by:	Date / Time:			Cold?
Relinquished by:	Date / Time:	Received by:	Date / Time:			Seals Intact?
				Total Number of Containers:		

Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140205-30

Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	2/5/14	nd	nd	nd	nd	nd	97
LCS	2/5/14	90%	89%				106
A02-Cal-0.22	2/5/14	nd	nd	nd	nd	nd	92
A02-Cal-0.22 Dup	2/5/14	nd	nd	nd	nd	nd	90
A02-5-16	2/5/14	nd	nd	nd	nd	nd	93
A02-6-16	2/5/14	nd	nd	nd	nd	nd	91
A02-Cal5-0.2	2/5/14	0.044	nd	nd	nd	nd	96
A02-7-17	2/5/14	nd	nd	nd	nd	nd	98
A02-5-16 MS	2/5/14	96%	90%				100
A02-5-16 MSD	2/5/14	90%	86%				93
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140205-30
Client Project # 1396010*00

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	2/5/14	98	nd	nd
A02-Cal-0.22	2/5/14	92	nd	nd
A02-Cal-0.22 Dup	2/5/14	88	nd	nd
A02-5-16	2/5/14	100	nd	nd
A02-6-16	2/5/14	99	nd	nd
A02-Cal5-0.2	2/5/14	92	nd	nd
A02-Cal5-0.2 Dup	2/5/14	88	nd	nd
A02-7-17	2/5/14	114	nd	nd
A02-7-17 Dup	2/5/14	98	nd	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on February 6, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 2/5/14 - 2/6/14

Page: 1 of 1

Client: Kennedy/Trent Consultants

Project Manager: Ty Schreiner

Address:

Project Name: Cornet Bay

City: State: Zip:

Location: City, State: Oak Harbor, WA

Phone: Fax:

Collector: Date of Collection: 2/5-6/14

Client Project # 1396010*00

Email:

Sample Number	Depth	Time	Sample Type	Container Type	Analytes											Field Notes		
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-DX	PAH 8270	PCBs 8082	MTCAs 5 Metals				
1 A02-Call6-3to7		1520		250ml, 4oz jar	✓				✓	✓								collected 2/5/14
2 A02-Call7-1.7		1521		" "														" "
3 A02-2-17		1356		" "														" "
4 A02-9-15		1504		" "														" "
5 SP2-11		0850		" "														collected 2/6/14
6 SP2-12		0855		" "														
7 SP2-13		0900																
8 SP2-14		0905																
9 SP2-15		0910																
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		

Relinquished by: [Signature] Date / Time: 2/6/14 1641
 Received by: [Signature] Date / Time: 2/6/14 1641

Sample Receipt:
 Good Condition?
 Cold?
 Seals Intact?
 Total Number of Containers

Remarks:
 ML
 TAT: 24HR 48HR 5-DAY

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law. Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140206-30

Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	2/6/14	nd	nd	nd	nd	nd	101
LCS	2/6/14	93%	110%				104
A02-Cal6-0.3 to 0.7	2/6/14	1.7	nd	nd	nd	nd	101
A02-Cal7-1.7	2/6/14	0.40	nd	nd	nd	nd	105
A02-Cal7-1.7 Dup	2/6/14	0.38	nd	nd	nd	nd	101
A02-8-17	2/6/14	nd	nd	nd	nd	nd	103
A02-9-15	2/6/14	nd	nd	nd	nd	nd	88
SP2-11	2/6/14	nd	nd	nd	nd	nd	104
SP2-12	2/6/14	nd	nd	nd	nd	nd	100
SP2-13	2/6/14	nd	nd	nd	nd	nd	97
SP2-14	2/6/14	nd	nd	nd	nd	nd	99
SP2-15	2/6/14	nd	nd	nd	nd	nd	115
A02-Cal6-.3 to .7 MS	2/6/14	105%	89%				94
A02-Cal6-.3 to .7 MSE	2/6/14	108%	90%				104
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140206-30
Client Project # 1396010*00

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	2/6/14	103	nd	nd
A02-Cal6-0.3 to 0.7	2/6/14	113	nd	nd
A02-Cal7-1.7	2/6/14	110	nd	nd
A02-8-17	2/6/14	116	nd	nd
A02-8-17 Dup	2/6/14	110	nd	nd
A02-9-15	2/6/14	104	nd	nd
A02-9-15 Dup	2/6/14	106	nd	nd
SP2-11	2/6/14	113	nd	nd
SP2-12	2/6/14	107	nd	nd
SP2-13	2/6/14	122	nd	nd
SP2-14	2/6/14	111	nd	nd
SP2-15	2/6/14	118	nd	nd
SP2-15 Dup	2/6/14	117	nd	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on February 7, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 2/7/14 Page: 1 of 1

Client: Kennedy Jenks Consultants

Project Manager: Jarod Fisher / Ty Schreiner

Address: _____

Project Name: Cornet Bay

City: _____ State: _____ Zip: _____

Location: _____ City, State: Oak Harbor WA

Phone: _____ Fax: _____

Collector: Jarod Fisher Date of Collection: 2/7/14

Client Project # 1396010*00

Email: _____

Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes		
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-Gx	NWTPH-Dx	PAH 8270	PCB's 8082	MTCAs 5 Metals			
1 SP2-16		0745	SOIL	2VOAs/Jar	X				X	X							
2 SP2-17	1'	0902	SOIL	2VOAs/WAR	X				X	X							
3 SP2-18	1'	0910	SOIL	2VOAs/WAR	X				X	X							
4 A02-10-12	12	1227	SOIL	2VOAs/Jar	X				X	X							
5 A02-11-12	12	1258	SOIL	2VOAs/Jar	X				X	X							
6 A02-12-14	14	1302	SOIL	2VOAs/WAR	X				X	X							
7 A02-CALB-132	14	1325	SOIL	2VOAs/WAR	X				X	X							
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	

Relinquished by: <u>[Signature]</u>	Date / Time: <u>2/7/14 1549</u>	Received by: <u>[Signature]</u>	Date / Time: <u>2/7/14 1549</u>	Sample Receipt: Good Condition? <input type="checkbox"/> Cold? <input type="checkbox"/> Seals Intact? <input type="checkbox"/> Total Number of Containers: _____	Remarks: <p style="text-align: center; font-size: 2em;">ML</p> TAT: 24HR 48HR 5-DAY
Relinquished by: _____	Date / Time: _____	Received by: _____	Date / Time: _____		
Relinquished by: _____	Date / Time: _____	Received by: _____	Date / Time: _____		
Relinquished by: _____	Date / Time: _____	Received by: _____	Date / Time: _____		

LEGAL ACTION CLAUSE. In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law. Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

4139 Libby Road NE

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Email: libbyenv@aol.com

CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140207-30

Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	2/7/14	nd	nd	nd	nd	nd	97
LCS	2/7/14	98%	87%				98
SP2-16	2/7/14	nd	nd	nd	nd	nd	105
SP2-16 Dup	2/7/14	nd	nd	nd	nd	nd	97
SP2-17	2/7/14	nd	nd	nd	nd	nd	99
SP2-18	2/7/14	nd	nd	nd	nd	nd	112
A02-10-12	2/7/14	nd	nd	nd	nd	nd	112
A02-11-12	2/7/14	0.57	nd	nd	nd	nd	100
A02-12-14	2/7/14	0.11	nd	nd	nd	nd	126
SP2-16 MS	2/7/14	95%	87%				97
SP2-16 MSD	2/7/14	95%	85%				112
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140207-30
Client Project # 1396010*00

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	2/7/14	108	nd	nd
SP2-16	2/7/14	108	nd	nd
SP2-16 Dup	2/7/14	108	nd	nd
SP2-17	2/7/14	109	nd	nd
SP2-18	2/7/14	110	nd	nd
A02-10-12	2/7/14	112	nd	nd
A02-11-12	2/7/14	109	nd	nd
A02-12-14	2/7/14	119	nd	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on February 10, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
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Libby Environmental, Inc.

Chain of Custody Record

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Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Date: ~~2/7-10/14~~ 2-10-14 Page: 1 of 1

Client: Kennedy Jenks Consultants

Project Manager: Ty Schreiner

Address:

Project Name: Cornet Bay

City: State: Zip:

Location: City, State: Oak Harbor, WA

Phone: Fax:

Collector: Dean/Ray Date of Collection: 2/7-10/14

Client Project #

Email:

Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes							
					VOA 802/1B	VOA 802/1B BTEX Only	VOA 8280	SEMI VOL 8270	NWTPH-HClD	NWTPH-Gx	NWTPH-Dx	PAH 8270	PCB's 8082	MTCA 5 Metals								
1	A02-Cal-13.2	14	1325	Soil	2VOA/5ar	X				X	X											collected 2/7/14
2	SP2-19	St. Kpile	1005	Soil	2VOA/5ar	X				X	X											
3	SP3-1		1340			X				X	X											
4	SP5-t		1300			X				X	X											
5	A03-Cal-32	8ft	1205	Soil	2VOA/5ar	X				X	X											
6	SP3-3	St. Kpile	1400	Soil		X				X	X											
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						
17																						

Relinquished by: <u>[Signature]</u>	Date / Time: <u>2/10/14 1700</u>	Received by: <u>[Signature]</u>	Date / Time: <u>2/10/14 1700</u>	Sample Receipt:	Remarks: <u>ML</u>	
Relinquished by:	Date / Time:	Received by:	Date / Time:			Good Condition?
Relinquished by:	Date / Time:	Received by:	Date / Time:			Cold?
Relinquished by:	Date / Time:	Received by:	Date / Time:			Seals Intact?
				Total Number of Containers	TAT: 24HR 48HR 5-DAY	

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law. Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

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Email: libbyenv@aol.com

CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140210-30

Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	2/10/14	nd	nd	nd	nd	nd	108
LCS	2/10/14	104%	93%				104
A02-Cal8-13.2	2/10/14	0.54	nd	nd	nd	11	124
A02-Cal8-13.2 Dup	2/10/14	0.55	nd	nd	nd	11	116
SP2-19	2/10/14	nd	nd	nd	nd	nd	100
SP3-1	2/10/14	nd	nd	nd	nd	nd	101
A03-Cal-3.2	2/10/14	0.29	nd	nd	1.2	12	126
SP2-19 MS	2/10/14	96%	94%				110
SP2-19 MSD	2/10/14	106%	93%				104
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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Email: libbyenv@aol.com

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140210-30
Client Project # 1396010*00

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	2/10/14	113	nd	nd
A02-Cal8-13.2	2/10/14	114	nd	nd
A02-Cal8-13.2 Dup	2/10/14	105	nd	nd
SP2-19	2/10/14	107	nd	297
SP2-19 Dup	2/10/14	132	nd	300
SP3-1	2/10/14	115	nd	nd
A03-Cal-3.2	2/10/14	115	nd	770
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

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September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on February 10 & 11, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

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Jamie L. Deyman
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Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
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Ph: 360-352-2110
Fax: 360-352-4154

Date: 2/10-11/14 ²⁻¹¹⁻¹⁴ Page: 1 of 1

Client: Kennedy Jenks Consultants

Project Manager: Ty Schreiner

Address: _____

Project Name: Cornet Bay

City: _____ State: _____ Zip: _____

Location: _____ City, State: Oak Harbor, WA

Phone: _____ Fax: _____

Collector: Dan Fisher Date of Collection: 2/10-11/14

Client Project # _____

Email: _____

Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes		
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-DX	PAH 8270	PCB's 8082	MTCAs 5 Metals			
1 SP3-2	—	1350	soil	2 Voa/Jar	X				X	X							collected 2/10/14
2 SP3-3	—	1420	soil	2 Voa/Jar	X				X	X							" "
3 A03-Cal-20.1	7ft	1500	soil	" "	X				X	X							" "
4 A03-Cal-0.5	1ft	1570	soil	" "	X				X	X							" "
5 A03-Cal-2.3	1ft	1520	soil	" "	X				X	X							" "
6 A04-CAL1-0.2	12ft	1000	soil	" "	X				X	X							Collected 2/11/14
7 A04-CAL2-3.2	8ft	1005	soil	" "	X				X	X							" "
8 A04-CAL3-3.1	6ft	1015	soil	" "	X				X	X							" "
9 A04-CAL4-8.6	5ft	1245	soil	" "	X				X	X							" "
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	

Relinquished by: <u>[Signature]</u>	Date / Time: <u>2/11 1520</u>	Received by: <u>[Signature]</u>	Date / Time: <u>2/11/14 1520</u>	Sample Receipt:	Remarks: <u>ML</u>		
Relinquished by: _____	Date / Time: _____	Received by: _____	Date / Time: _____			Good Condition?	
Relinquished by: _____	Date / Time: _____	Received by: _____	Date / Time: _____			Cold?	
Relinquished by: _____	Date / Time: _____	Received by: _____	Date / Time: _____			Seals Intact?	
				Total Number of Containers	TAT: 24HR 48HR 5-DAY		

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law. Distribution: White - Lab, Yellow - File, Pink - Originator

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Email: libbyenv@aol.com

CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140211-30

Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	2/11/14	nd	nd	nd	nd	nd	100
LCS	2/11/14	102%	92%				105
SP3-2	2/11/14	nd	nd	nd	nd	nd	95
SP3-3	2/11/14	nd	nd	nd	nd	nd	99
SP3-3 Dup	2/11/14	nd	nd	nd	nd	nd	98
A03-Cal-20.1	2/11/14	3.5 E	0.29	0.56	4.8	116	110
A03-Cal-0.5	2/11/14	0.027	nd	nd	nd	nd	107
A03-Cal-2.3	2/11/14	2.7	nd	nd	nd	nd	90
A04-Cal1-0.2	2/11/14	0.085	nd	nd	nd	nd	102
A04-Cal2-3.2	2/11/14	3.6 E	nd	nd	nd	nd	105
A04-Cal3-31	2/11/14	0.053	nd	nd	nd	nd	103
A04-Cal3-31 Dup	2/11/14	0.046	nd	nd	nd	nd	97
SP3-2 MS	2/11/14	99%	90%				98
SP3-2 MSD	2/11/14	101%	89%				94
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"E" Reported results is an estimate because it exceeds the calibration range.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140211-30
Client Project # 1396010*00

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	2/10/14	113	nd	nd
Method Blank	2/11/14	105	nd	nd
SP3-2	2/10/14	120	nd	102
SP3-3	2/10/14	109	nd	nd
A03-Cal-20.1	2/11/14	102	nd	2380
A03-Cal-0.5	2/11/14	111	nd	nd
A03-Cal-2.3	2/11/14	110	nd	nd
A03-Cal-2.3 Dup	2/11/14	106	nd	nd
A04-Cal1-0.2	2/11/14	106	nd	nd
A04-Cal1-0.2 Dup	2/11/14	118	nd	nd
A04-Cal2-3.2	2/11/14	112	nd	nd
A04-Cal3-31	2/11/14	113	nd	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



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September 12, 2014

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Sincerely,

Jamie L. Deyman
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Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

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4139 Libby Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Date: ~~2/11-12/14~~ 2-12-14 Page: 1 of 1

Client: Kennedy Jenks Consultants

Project Manager: Ty Schreiner

Address: _____

Project Name: Cornet Bay

City: _____ State: _____ Zip: _____

Location: _____ City, State: Oak Harbor, WA

Phone: _____ Fax: _____

Collector: _____ Date of Collection: 2/11-12/14

Client Project # 1396010*00

Email: _____



Sample Number	Depth	Time	Sample Type	Container Type	VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-DX	PAH 8270	PCBs 8082	MTCA 5 Metals	Field Notes
1 <u>A04-CAL4-86</u>	<u>5'</u>	<u>1245</u>	<u>Soil</u>	<u>2VOA/50R</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<u>collected 2/11/14</u>
2 <u>A04-CALS-348</u>	<u>6'</u>	<u>1442</u>	<u>SOIL</u>	<u>2VOA/15AR</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<u>LI LI</u>
3 <u>A02/04-1-11</u>	<u>11'</u>	<u>1520</u>	<u>SOIL</u>	<u>2VOA/15AR</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<u>LI LI</u>
4 <u>A04-1-7'</u>	<u>7'</u>	<u>1537</u>	<u>SOIL</u>	<u>2VOA/15AR</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<u>LI LI</u>
5 <u>A04-2-8'</u>	<u>8'</u>	<u>1545</u>	<u>SOIL</u>	<u>2VOA/15AR</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<u>LI LI</u>
6 <u>A04-3-7</u>	<u>7'</u>	<u>1025</u>	<u>SOIL</u>	<u>2VOA/15AR</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<u>collected 2/12/14</u>
7 <u>A04-4-3</u>	<u>3'</u>	<u>1035</u>	<u>SOIL</u>	<u>2VOA/15AR</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<u>LI LI</u>
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															

Relinquished by: _____ Date / Time: 2/12/14-1505 Received by: Paul Bunk Date / Time: 2/12/14 1505

Sample Receipt: _____

Remarks: _____

Relinquished by: _____ Date / Time: _____ Received by: _____ Date / Time: _____

Good Condition?

ML

Relinquished by: _____ Date / Time: _____ Received by: _____ Date / Time: _____

Cold?

Relinquished by: _____ Date / Time: _____ Received by: _____ Date / Time: _____

Seals Intact?

Relinquished by: _____ Date / Time: _____ Received by: _____ Date / Time: _____

Total Number of Containers _____

TAT: 24HR 48HR 5-DAY

Libby Environmental, Inc.

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140212-30

Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	2/12/14	nd	nd	nd	nd	nd	105
LCS	2/12/14	107%	97%				117
A04-Cal4-86	2/12/14	0.067	nd	nd	nd	nd	101
A04-Cal5-348	2/12/14	0.87	nd	0.33	0.19	15	135
A04-Cal5-348 Dup	2/12/14	0.79	nd	0.31	0.23	14	125
A02/04-1-11	2/12/14	0.81	nd	nd	nd	nd	95
A04-1-7	2/12/14	1.3	nd	0.092	0.30	10	109
A04-2-8	2/12/14	0.089	nd	nd	nd	nd	107
A04-3-7	2/12/14	0.057	nd	nd	nd	nd	89
A04-4-3	2/12/14	0.72	nd	nd	0.20	nd	99
A04-2-8 MS	2/12/14	88%	93%				99
A04-2-8 MSD	2/12/14	92%	96%				100
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140212-30

Client Project # 1396010*00

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	2/12/14	101	nd	nd
A04-Cal4-86	2/12/14	98	nd	nd
A04-Cal5-348	2/12/14	106	nd	nd
A04-Cal5-348 Dup	2/12/14	115	nd	nd
A02/04-1-11	2/12/14	107	nd	nd
A04-1-7	2/12/14	106	nd	nd
A04-2-8	2/12/14	116	nd	nd
A04-3-7	2/12/14	116	nd	nd
A04-4-3	2/12/14	106	nd	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on February 13, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 2/13/14

Page: 1 of 1

Client: Kennedy Jenks Consultants

Project Manager: Ty Schreiner

Address:

Project Name: Cornet Bay

City: State: Zip:

Location: Cornet Bay

City, State: Oak Harbor, WA

Phone: Fax:

Collector: Jarod Fisher

Date of Collection: 2/13/14

Client Project # 1396010*00

Email: 2/12/14

Sample Number	EL. Depth	Time	Sample Type	Container Type	Analytes										Field Notes		
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-DX	PAH 8270	PCB's 8082	MTCAs 5 Metals			
1 A02/04-2-10	4 EL	1536	soil	2 voas/Jar	X				X	X							sampled 2/12/14
2 A02/04-2-10(04P)	4	1536	soil	" "	X				X	X							" "
3 A04-5-9	5	1551	soil	" "	X				X	X							" "
4 A04-6-5	9	1600	soil	" "	X				X	X							" "
5 A04-7-11	3	1104	soil	" "	X				X	X							sampled 2/13/14
6 A04-8-10	4	1214	soil	" "	X				X	X							" "
7 A04-9-7	7	1306	soil	" "	X				X	X							" "
8 A04-10-12	8	1314	soil	" "	X				X	X							" "
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	

Relinquished by: <u>[Signature]</u>	Date / Time: <u>2/13/14 1530</u>	Received by: <u>[Signature]</u>	Date / Time: <u>2/13/14 1530</u>	Sample Receipt:	Remarks: <u>ML</u>	
Relinquished by:	Date / Time:	Received by:	Date / Time:			Good Condition?
Relinquished by:	Date / Time:	Received by:	Date / Time:			Cold?
Relinquished by:	Date / Time:	Received by:	Date / Time:			Seals Intact?
				Total Number of Containers:	TAT: 24HR 48HR 5-DAY	

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law. Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

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CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140213-30

Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	2/13/14	nd	nd	nd	nd	nd	96
LCS	2/13/14	100%	92%				103
A02/04-2-10	2/13/14	1.7	nd	nd	nd	nd	97
A02/04-2-10 (Dup)	2/13/14	2.6 E	nd	nd	nd	nd	92
A04-5-9	2/13/14	0.041	nd	nd	nd	nd	92
A04-6-5	2/13/14	3.2 E	0.59	0.35	1.4	31	123
A04-6-5 Dup	2/13/14	3.3 E	0.63	0.34	1.5	32	119
A04-7-11	2/13/14	nd	nd	nd	nd	nd	97
A04-8-10	2/13/14	nd	nd	nd	nd	nd	108
A04-9-7	2/13/14	nd	nd	nd	nd	nd	100
A04-10-12	2/13/14	nd	nd	nd	nd	nd	104
A04-5-9 MS	2/13/14	91%	97%				114
A04-5-9 MSD	2/13/14	99%	94%				89
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"E" Reported results is an estimate because it exceeds the calibration range.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140213-30
Client Project # 1396010*00

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	2/13/14	114	nd	nd
A02/04-2-10	2/13/14	108	nd	nd
A02/04-2-10 (Dup)	2/13/14	105	nd	nd
A04-5-9	2/13/14	119	nd	nd
A04-6-5	2/13/14	119	nd	nd
A04-6-5 Dup	2/13/14	110	nd	nd
A04-7-11	2/13/14	117	nd	nd
A04-8-10	2/13/14	115	nd	nd
A04-9-7	2/13/14	111	nd	nd
A04-10-12	2/13/14	119	nd	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil and water samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on February 14, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

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Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 2/14/14

Page: 1 of 1

Client: Kenny Jenks Consultants

Project Manager: Ty Schreiner

Address: _____

Project Name: Cornet Bay

City: _____ State: _____ Zip: _____

Location: Cornet Bay City, State: Oak Harbor, WA

Phone: _____ Fax: _____

Collector: Jared Fisher Date of Collection: 2/12-14/14

Client Project # 1396010*00

Email: _____

Sample Number	EC Depth	Time	Sample Type	Container Type	Analytes										Field Notes		
					VOA 802-1B	VOA 802-1B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-DX	PAH 8270	PCB's 8082	MTCA 5 Metals			
1 <u>A04-11-8</u>	<u>6</u>	<u>1325</u>	<u>SOIL</u>	<u>2Voa's/1Jar</u>	X				X	X							<u>collected 2/13/14</u>
2 <u>RB-01</u>		<u>1721</u>	<u>H2O</u>	<u>2Voa's/Amber</u>	X				X	X							<u>collected 2/12/14</u>
3 <u>RB-02</u>		<u>1603</u>	<u>H2O</u>	<u>2Voa's/Amber</u>	X				X	X							<u>collected 2/13/14</u>
4 <u>A04-12-9</u>	<u>5</u>	<u>1451</u>	<u>SOIL</u>	<u>2Voa's/1Jar</u>	X				X	X							<u>" "</u>
5 <u>A04-12-9 (Dup)</u>	<u>5</u>	<u>1451</u>	<u>SOIL</u>	<u>2Voa's/1Jar</u>	X				X	X							<u>" "</u>
6 <u>A04-13-7</u>	<u>7</u>	<u>0900</u>	<u>SOIL</u>	<u>2Voa's/1Jar</u>	X				X	X							
7 <u>A02/04-3-9</u>	<u>5</u>	<u>0920</u>	<u>SOIL</u>	<u>2Voa's/1Jar</u>	X				X	X							
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	

Relinquished by: <u>[Signature]</u>	Date / Time: <u>2/14/14 1410</u>	Received by: <u>[Signature]</u>	Date / Time: <u>2/14/14 1410</u>	Sample Receipt:	Remarks: <u>ML</u>		
Relinquished by: _____	Date / Time: _____	Received by: _____	Date / Time: _____			Good Condition?	
Relinquished by: _____	Date / Time: _____	Received by: _____	Date / Time: _____			Cold?	
Relinquished by: _____	Date / Time: _____	Received by: _____	Date / Time: _____			Seals Intact?	
				Total Number of Containers	TAT: 24HR 48HR 5-DAY		

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law. Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

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CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140214-30

Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	Analyzed	nd	nd	nd	nd	nd	100
LCS	2/14/14	97%	79%				87
A04-11-8	2/14/14	0.051	nd	nd	nd	nd	85
A04-11-8 Dup	2/14/14	0.054	nd	nd	nd	nd	96
A04-12-9	2/14/14	0.073	nd	nd	nd	nd	96
A04-12-9 (Dup)	2/14/14	0.051	nd	nd	nd	nd	95
A04-13-7	2/14/14	0.025	nd	nd	nd	nd	98
A02/04-3-9	2/14/14	0.071	nd	nd	nd	nd	90
A04-12-9 MS	2/14/14	95%	91%				98
A04-12-9 MSD	2/14/14	87%	86%				92
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"E" Reported results is an estimate because it exceeds the calibration range.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140214-30
Client Project # 1396010*00

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	2/14/14	101	nd	nd
A04-11-8	2/14/14	113	nd	nd
A04-11-8 Dup	2/14/14	113	nd	nd
A04-12-9	2/14/14	101	nd	nd
A04-12-9 (Dup)	2/14/14	97	nd	nd
A04-13-7	2/14/14	115	nd	nd
A02/04-3-9	2/14/14	98	nd	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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Email: libbyenv@aol.com

CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140214-30

Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Water

Sample Number	Date Analyzed	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	Gasoline (µg/l)	Surrogate Recovery (%)
Method Blank	2/14/14	nd	nd	nd	nd	nd	100
LCS	2/14/14	97%	79%				87
RB-01	2/14/14	nd	nd	nd	nd	nd	103
RB-02	2/14/14	nd	nd	nd	nd	nd	98
RB-02 Dup	2/14/14	nd	nd	nd	nd	nd	97
RB-01 MS	2/14/14	107%	96%				98
RB-01 MSD	2/14/14	86%	83%				84
Practical Quantitation Limit		1	2	1	1	100	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140214-30

Client Project # 1396010*00

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Water

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel ($\mu\text{g/l}$)	Oil ($\mu\text{g/l}$)
Method Blank	2/14/14	101	nd	nd
RB-01	2/14/14	111	nd	nd
RB-02	2/14/14	106	nd	nd
RB-02 Dup	2/14/14	106	nd	nd
Practical Quantitation Limit			200	400

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on February 17, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE Olympia, WA 98506
 Ph: 360-352-2110 Fax: 360-352-4154

Date: 2/17/14 Page: 1 of 1

Client: Kennedy Jenks Consulting

Project Manager: Ty Schreiner

Address:

Project Name: Cornet Bay

City: State: Zip:

Location: Cornet Bay City, State: Oak Harbor, WA

Phone: Fax:

Collector: Jarod Fisher / Ray Alvarez Date of Collection: 2/14-17/14

Client Project # 1396010*00

Email:

Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes		
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-Dx	PAH 8270	PCBs 8082	MTCA 5 Metals			
1 <u>A02/04-4-9</u>		<u>0930</u>	<u>soil</u>	<u>2 Voas/1 Jar</u>	X				X	X							<u>collected 2/14/14</u>
2 <u>A03-1-6</u>		<u>1115</u>	<u>Soil</u>	<u>2 Voas/1 Jar</u>	X				X	X							<u>collected 2/17/14</u>
3 <u>A03-2-5</u>		<u>1126</u>	↓	↓	X				X	X							
4 <u>A03-3-5.5</u>		<u>1125</u>	↓	↓	X				X	X							
5 <u>A03-4-8</u>		<u>1130</u>	↓	↓	X				X	X							
6 <u>A03-5-10</u>		<u>1135</u>	↓	↓	X				X	X							
7 <u>A03-SP2-1</u>		1515	↓	↓													
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	

Relinquished by: <u>[Signature]</u>	Date / Time: <u>2/17 1530</u>	Received by: <u>Paul Burkh</u>	Date / Time: <u>2/17/14 1530</u>	Sample Receipt:	Remarks: <u>ML</u>
Relinquished by:	Date / Time:	Received by:	Date / Time:	Good Condition?	
				Cold?	
				Seals Intact?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Total Number of Containers	TAT: 24HR 48HR 5-DAY

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law. Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

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Email: libbyenv@aol.com

CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140217-30

Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	Analyzed	nd	nd	nd	nd	nd	86
LCS	2/17/14	110%	92%				99
A02/04-4-9	2/17/14	0.67	nd	0.065	0.34	12	86
A02/04-4-9 Dup	2/17/14	0.68	nd	0.070	0.34	12	98
A03-1-6	2/17/14	nd	nd	nd	nd	nd	86
A03-2-5	2/17/14	nd	nd	nd	nd	nd	94
A03-3-5.5	2/17/14	nd	nd	nd	nd	nd	74
A03-4-8	2/17/14	nd	nd	nd	nd	nd	82
A03-5-10	2/17/14	nd	nd	nd	nd	nd	98
A02/04-4-9 MS	2/17/14	78%	95%				91
A02/04-4-9 MSD	2/17/14	73%	96%				90
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"E" Reported results is an estimate because it exceeds the calibration range.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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Email: libbyenv@aol.com

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140217-30
Client Project # 1396010*00

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	2/17/14	103	nd	nd
A02/04-4-9	2/17/14	115	nd	nd
A02/04-4-9 Dup	2/17/14	107	nd	nd
A03-1-6	2/17/14	107	nd	nd
A03-2-5	2/17/14	103	nd	nd
A03-3-5.5	2/17/14	107	nd	nd
A03-4-8	2/17/14	114	nd	nd
A03-5-10	2/17/14	118	nd	nd
A03-5-10 Dup	2/17/14	102	nd	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on February 18, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 2/18/14

Page: 1 of 1

Client: Kennedy Jenks Consultants

Project Manager: Ty Schreiner

Address:

Project Name: Cornet Bay

City: State: Zip:

Location: Cornet Bay City, State: Oak Harbor, WA

Phone: Fax:

Collector: Raymond/Dean Date of Collection: 2/17-18/14

Client Project # 1396010 * 00

Email:

Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes		
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-DX	PAH 8270	PCBs 8082	MTCA 5 Metals			
1 <u>A03-6-11</u>		<u>1430</u>	<u>Soil</u>	<u>2 Voas/Jar</u>	X				X	X							<u>Collected 2/17/14</u>
2 <u>A03-7-10.5</u>		<u>1445</u>	<u>Soil</u>	<u>2 Voas/Jar</u>	X				X	X							<u>" "</u>
3 <u>A03-8-5</u>		<u>1515</u>	<u>soil</u>	<u>2 Voas/Jar</u>	X				X	X							<u>" "</u>
4 <u>A03-SP2-1</u>		<u>1515</u>	<u>Soil</u>	<u>2 V.A./Jar</u>	X				X	X							<u>" "</u>
5 <u>SP3B-1</u>		<u>1100</u>	<u>Soil</u>	<u>2 Voas/Jar</u>	X				X	X							<u>Collected 2/18/14</u>
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	

Relinquished by: <u>[Signature]</u>	Date / Time: <u>2/18/14 1535</u>	Received by: <u>Paul Bunk</u>	Date / Time: <u>2/18/14 1535</u>	Sample Receipt:	Remarks: <u>ML</u>
Relinquished by:	Date / Time:	Received by:	Date / Time:	Good Condition?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Cold?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Seals Intact?	
				Total Number of Containers	TAT: 24HR 48HR 5-DAY

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law. Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140218-30

Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	Analyzed	nd	nd	nd	nd	nd	80
LCS	2/18/14	103%	86%				91
A03-6-11	2/18/14	0.27	nd	nd	nd	nd	83
A03-7-10.5	2/18/14	0.044	nd	0.083	0.20	nd	69
A03-8-5	2/18/14	nd	nd	nd	nd	nd	66
A03-8-5 Dup	2/18/14	nd	nd	nd	nd	nd	95
A03-SP2-1	2/18/14	nd	nd	nd	nd	nd	77
SP3B-1	2/18/14	0.053	nd	0.17	0.55	17	87
A03-SP2-1 MS	2/18/14	98%	80%				102
A03-SP2-1 MSD	2/18/14	94%	75%				126
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"E" Reported results is an estimate because it exceeds the calibration range.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140218-30
Client Project # 1396010*00

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	2/18/14	102	nd	nd
A03-6-11	2/18/14	109	nd	nd
A03-7-10.5	2/18/14	106	nd	nd
A03-8-5	2/18/14	122	nd	nd
A03-SP2-1	2/18/14	111	48	nd
A03-SP2-1 Dup	2/18/14	108	44	nd
SP3B-1	2/18/14	118	44	nd
SP3B-1 Dup	2/18/14	99	41	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on February 19, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 2/19/14

Page: 1 of 1

Client: Kennedy Jenk Consulting

Project Manager: Ty Schreiner

Address:

Project Name: Cornet Bay

City: State: Zip:

Location: Cornet Bay

City, State: Oak Harbor, WA


Phone: Fax:

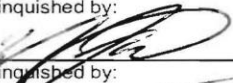
Collector:

Date of Collection: 2/18-19/14

Client Project # 1396010*00

Email:

Sample Number	EL. Depth	Time	Sample Type	Container Type	Analytes											Field Notes		
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-Gx	NWTPH-Dx	PAH 8270	PCB's 8082	MTCA 5 Metals				
1 <u>A3-9-12</u>	<u>2</u>	<u>1336</u>	<u>SOIL</u>	<u>2VOAS/1JAR</u>	X				X	X								<u>collected 2/18/14</u> <u>u</u>  <u>2/19/14</u> <u>17</u> <u>11</u>
2 <u>A3-10-12</u>	<u>2</u>	<u>1510</u>	<u>SOIL</u>	<u>2VOAS/1JAR</u>	X				X	X								
3 <u>A3-11-10</u>	<u>4</u>	<u>1517</u>	<u>SOIL</u>	<u>2VOAS/1JAR</u>	X				X	X								
4 <u>A3-12-6</u>	<u>8</u>	<u>1523</u>	<u>SOIL</u>	<u>2VOAS/1JAR</u>	X				X	X								
5 <u>A3-13-12</u>	<u>2</u>	<u>1525</u>	<u>SOIL</u>	<u>2VOAS/1JAR</u>	X				X	X								
6 <u>WSP3-1</u>	<u>1ft</u>	<u>1530</u>	<u>SOIL</u>	<u>2VOAS/1JAR</u>	X				X	X								
7 <u>WSP4-1</u>	<u>1ft</u>	<u>1530</u>	<u>SOIL</u>	<u>2VOAS/1JAR</u>	X				X	X								
8 <u>WSP4-2</u>	<u>LF depth</u>	<u>1530</u>	<u>SOIL</u>	<u>2VOAS/1JAR</u>	X				X	X								
9 <u>WSP4-3</u>	<u>12in-18in</u>	<u>1100</u>	<u>SOIL</u>	<u>2VOAS/1JAR</u>	X				X	X								
10 <u>WSP4-4</u>	<u>12in-18in</u>	<u>1115</u>	<u>SOIL</u>	<u>2VOAS/1JAR</u>	X				X	X								
11 <u>WSP4-5</u>	<u>12in-18in</u>	<u>1315</u>	<u>SOIL</u>	<u>2VOAS/1JAR</u>	X				X	X								
12																		
13																		
14																		
15																		
16																		
17																		

Relinquished by: 	Date / Time: <u>2/19/14 1605</u>	Received by: <u>Paul Benth</u>	Date / Time: <u>2/19/14 1605</u>	Sample Receipt:	Remarks: <u>ML</u> TAT: 24HR 48HR 5-DAY
Relinquished by:	Date / Time:	Received by:	Date / Time:	Good Condition?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Cold?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Seals Intact?	
				Total Number of Containers:	

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law. Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140219-30

Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	Analyzed	nd	nd	nd	nd	nd	109
LCS	2/19/14	106%	87%				104
A3-9-12	2/19/14	0.033	nd	nd	nd	nd	106
A3-10-12	2/19/14	0.094	nd	nd	nd	nd	94
A3-11-10	2/19/14	0.025	nd	nd	nd	nd	88
A3-12-6	2/19/14	nd	nd	nd	nd	nd	101
A3-12-6 Dup	2/19/14	nd	nd	nd	nd	nd	112
WSP3-1	2/19/14	0.30	0.25	0.72	1.2	103	int
WSP4-1	2/19/14	0.23	nd	0.074	0.41	25	103
WSP4-2	2/19/14	0.48	nd	0.14	0.46	23	101
WSP4-3	2/19/14	0.48	0.11	0.31	0.84	34	98
WSP4-4	2/19/14	0.11	nd	0.13	0.67	28	109
WSP4-5	2/19/14	0.13	nd	0.29	1.0	37	113
A3-9-12 MS	2/19/14	114%	85%				107
A3-9-12 MSD	2/19/14	114%	87%				100
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"E" Reported results is an estimate because it exceeds the calibration range.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140219-30
Client Project # 1396010*00

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	2/19/14	101	nd	nd
A3-9-12	2/19/14	105	nd	nd
A3-10-12	2/19/14	107	nd	nd
A3-11-10	2/19/14	100	nd	nd
A3-11-10 Dup	2/19/14	107	nd	nd
A3-12-6	2/19/14	103	nd	nd
WSP3-1	2/19/14	105	nd	nd
WSP4-1	2/19/14	103	nd	nd
WSP4-2	2/19/14	97	nd	nd
WSP4-3	2/19/14	101	nd	nd
WSP4-4	2/19/14	97	nd	nd
WSP4-5	2/19/14	106	nd	nd
WSP4-5 Dup	2/19/14	102	nd	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on February 20, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 2/18/14 2-20-14 Page: 1 of 1

Client: Kenny Jenks Consultants

Project Manager: Ty Schreiner

Address:

Project Name: Cornet Bay

City: State: Zip:

Location: Cornet Bay City, State: Oak Harbor, WA

Phone: Fax:

Collector: Date of Collection: 2/18-20/14

Client Project # 1396010 * 00

Email:



Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes		
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-DX	PAH 8270	PCB's 8082	MTCA 5 Metals			
1 A3-14-12		0830	soil	2Vbas/1Jar	X					X	X						
2 A4-14-4		0945	soil	2VOAs/1JAR	X					X	X						collected 2/19/14
3 A4-15-3		0945	soil	2VOAs/1Jar	X					X	X						" "
4 A3-15-7		0835	soil	2Vbas/1Jar	X					X	X						" "
5 A3-15-5	2'EL																
6 A3-13-12	2'EL	1525	soil	2VOAs/1JAR	X					X	X						sampled 2/18/14
7 A3-14-12		0830	soil	2Vbas/1Jar	X					X	X						collected 2/19/14
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	

Relinquished by: <u>[Signature]</u>	Date / Time: <u>2/20/14 1353</u>	Received by: <u>[Signature]</u>	Date / Time: <u>2/20/14 1353</u>	Sample Receipt:	Remarks: <u>ML</u>	
Relinquished by:	Date / Time:	Received by:	Date / Time:			Good Condition?
Relinquished by:	Date / Time:	Received by:	Date / Time:			Cold?
Relinquished by:	Date / Time:	Received by:	Date / Time:			Seals Intact?
				Total Number of Containers:	TAT: 24HR 48HR 5-DAY	

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law. Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

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FAX: (360) 352-4154

Email: libbyenv@aol.com

CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140220-30

Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	Analyzed	nd	nd	nd	nd	nd	98
LCS	2/20/14	107%	90%				108
A4-14-4	2/20/14	0.39	nd	nd	0.28	nd	105
A4-15-3	2/20/14	0.44	nd	0.60	1.1	65	120
A3-15-7	2/20/14	0.38	nd	0.27	0.54	33	108
A3-15-7 Dup	2/20/14	0.37	nd	0.31	0.65	29	106
A3-13-12	2/20/14	0.04	nd	nd	nd	nd	104
A3-14-12	2/20/14	nd	nd	nd	nd	nd	112
A3-14-12 MS	2/20/14	111%	93%				109
A3-14-12 MSD	2/20/14	113%	92%				113
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"E" Reported results is an estimate because it exceeds the calibration range.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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Olympia, WA 98506
Phone: (360) 352-2110
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Email: libbyenv@aol.com

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140220-30
Client Project # 1396010*00

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	2/19/14	101	nd	nd
Method Blank	2/20/14	98	nd	nd
A4-14-4	2/20/14	102	nd	nd
A4-14-4 Dup	2/20/14	102	nd	nd
A4-15-3	2/20/14	95	nd	nd
A3-15-7	2/20/14	97	nd	nd
A3-13-12	2/19/14	100	nd	nd
A3-13-12 Dup	2/19/14	104	nd	nd
A3-14-12	2/20/14	104	nd	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on February 24, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Date: 2/24/14 Page: 1 of 1

Client: Kennedy Jenks Consultants

Project Manager: Ty Schreiner

Address:

Project Name: Cornet Bay

City: State: Zip:

Location: Cornet Bay City, State: Oak Harbor, WA

Phone: Fax:

Collector: Date of Collection: 2/20-24/14

Client Project # 1396010*00

Email:

Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes		
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEM VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-Dx	PAH 8270	PCBs 8082	MTCA 5 Metals			
1 A02-14-1																	
2 A02-13-12		1515	soil	2Voa/Jar	X				X	X							Sampled 2/20/14
3 A02-14-12		1520	↓	↓	X				X	X							
4 A02-14-12(DUP)		1520	↓	↓	X				X	X							
5 SP2-20		1140	↓	↓	X				X	X							Sampled 2/21/14
6 SP2-22		1145	↓	↓	X				X	X							" "
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	

Relinquished by: <u>[Signature]</u>	Date / Time	Received by: <u>[Signature]</u>	Date / Time	Sample Receipt:	Remarks: <u>ML</u>
Relinquished by: <u>[Signature]</u>	Date / Time: <u>2/24/14 1530</u>	Received by: <u>Paul Burk</u>	Date / Time: <u>2/24/14 1530</u>	Good Condition?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Cold?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Seals Intact?	
				Total Number of Containers	TAT: 24HR 48HR 5-DAY

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law. Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140224-30
Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	2/24/14	nd	nd	nd	nd	nd	101
LCS	2/24/14	101%	84%				99
A02-13-12	2/24/14	nd	nd	nd	nd	nd	95
A02-14-12	2/24/14	nd	nd	nd	nd	nd	100
A02-14-12 (Dup)	2/24/14	nd	nd	nd	nd	nd	103
A02-14-12 (Dup) Dup	2/24/14	nd	nd	nd	nd	nd	97
SP2-20	2/24/14	nd	nd	nd	nd	nd	113
SP2-22	2/24/14	nd	nd	nd	nd	nd	107
SP2-22 MS	2/24/14	98%	79%				95
SP2-22 MSD	2/24/14	103%	84%				107
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"E" Reported results is an estimate because it exceeds the calibration range.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
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Email: libbyenv@aol.com

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140224-30
Client Project # 1396010*00

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	2/24/14	98	nd	nd
A02-13-12	2/24/14	107	176	nd
A02-14-12	2/24/14	104	60	nd
A02-14-12 (Dup)	2/24/14	95	nd	nd
A02-14-12 (Dup) Dup	2/24/14	100	nd	nd
SP2-20	2/24/14	104	nd	nd
SP2-22	2/24/14	99	nd	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on February 25, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Date: ^{2#} 2/25/14 Page: 1 of 1

Client: Kennedy Jenks Consultants

Project Manager: Ty Schreiner

Address:

Project Name: Cornet Bay

City: State: Zip:

Location: Oak Harbor City, State: WA

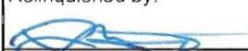
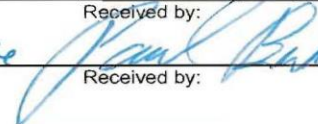
Phone: Fax:

Collector: Date of Collection: 2/24-25/14

Client Project # Cornet Bay 1396 ~~101~~ 00

Email:

Sample Number	Depth	Time	Sample Type	Container Type	Analytes											Field Notes		
					VOA 8021B	VOA 8021B BTEX-Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-DX	PAH 8270	PCBI's 8082	MTCA 5 Metals				
1 A05-1-5	5	1415	Soil	2 vials / Jar	X				X	X								sampled 2/24/14
2 SPS-1-1	1	1350	Soil	2 vials / Jar	X				X	X								"
3 SPS-2-1	1	1400	Soil	2 vials / Jar	X				X	X								"
4 A05-2-8	8	1000	Soil	2 vials / Jar	X				X	X								sampled 2/25/14
5 A05-3-11	11	1020	Soil	2 vials / Jar	X				X	X								"
6 A05-4-4	4	1145	Soil	2 vials / Jar	X				X	X								"
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		

Relinquished by: 	Date / Time: 2/25/14 1526	Received by: 	Date / Time: 2/25/14 1526	Sample Receipt:	Remarks: ML	
Relinquished by:	Date / Time:	Received by:	Date / Time:			Good Condition?
Relinquished by:	Date / Time:	Received by:	Date / Time:			Cold?
Relinquished by:	Date / Time:	Received by:	Date / Time:			Seals Intact?
				Total Number of Containers:	TAT: 24HR 48HR 5-DAY	

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law. Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

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CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140225-30
Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	2/25/14	nd	nd	nd	nd	nd	113
LCS	2/25/14	94%	88%				105
A05-1-5	2/25/14	nd	nd	nd	nd	nd	123
A05-1-5 Dup	2/25/14	nd	nd	nd	nd	nd	107
SP5-1-1	2/25/14	nd	nd	nd	nd	nd	104
SP5-2-1	2/25/14	nd	nd	nd	nd	nd	74
A05-2-8	2/25/14	nd	nd	nd	nd	nd	113
A05-3-11	2/25/14	nd	nd	nd	nd	nd	104
A05-4-4	2/25/14	12	1.1	35	0.44	1510	119
SP5-2-1 MS	2/25/14	113%	91%				114
SP5-2-1 MSD	2/25/14	102%	82%				97
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"E" Reported results is an estimate because it exceeds the calibration range.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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Olympia, WA 98506
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Email: libbyenv@aol.com

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140225-30
Client Project # 1396010*00

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	2/25/14	114	nd	nd
A05-1-5	2/25/14	106	nd	nd
A05-1-5 Dup	2/25/14	119	nd	nd
SP5-1-1	2/25/14	115	nd	nd
SP5-2-1	2/25/14	108	nd	nd
A05-2-8	2/25/14	122	nd	nd
A05-3-11	2/25/14	129	nd	nd
A05-4-4	2/25/14	int	15800	nd
A05-4-4 Dup	2/25/14	int	14500	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on February 26, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 2/26/14 Page: 1 of 1

Client: Kernedy Jenks Consultants

Project Manager: Ty Schreiner

Address: _____

Project Name: Connet Bay

City: _____ State: _____ Zip: _____

Location: Dark Harbor City, State: WA

Phone: _____ Fax: _____

Collector: _____ Date of Collection: _____

Client Project # 1396010*00

Email: _____

Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes		
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-DX	PAH 8270	PCBs 8082	MTCA 5 Metals			
1 A05-5-6	6	1435	Soil	200ml Jar	X				X	X							collected 2/25
2 A05-6-3	3	1445	Soil	200ml Jar	X				X	X							collected 2/25
3 A05-7-10	10	1045	Soil	200ml Jar	X				X	X							collected 2/26/14
4 A05-8-9	9	1115	Soil	200ml Jar	X				X	X							" "
5 A05-9-8	8	1134	Soil	200ml Jar	X				X	X							" "
6 A05-10-10	10	1142	Soil	200ml Jar	X				X	X							" "
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	

Relinquished by: <u>[Signature]</u>	Date / Time: <u>2/26/14 1515</u>	Received by: <u>Paul Bunk</u>	Date / Time: <u>2/26/14 1515</u>	Sample Receipt:	Remarks: <u>ML</u>
Relinquished by:	Date / Time:	Received by:	Date / Time:	Good Condition?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Cold?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Seals Intact?	
				Total Number of Containers	TAT: 24HR 48HR 5-DAY

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law. Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

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Email: libbyenv@aol.com

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140226-30
Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	2/26/14	nd	nd	nd	nd	nd	98
LCS	2/26/14	104%	89%				108
A05-5-6	2/26/14	0.037	nd	nd	nd	nd	113
A05-6-3	2/26/14	0.034	nd	nd	nd	nd	105
A05-6-3 Dup	2/26/14	0.035	nd	nd	nd	nd	111
A05-7-10	2/26/14	0.024	nd	nd	nd	nd	115
A05-8-9	2/26/14	0.025	nd	nd	nd	nd	113
A05-9-8	2/26/14	0.024	nd	nd	nd	nd	120
A05-10-10	2/26/14	0.50	nd	nd	nd	nd	117
A05-5-6 MS	2/26/14	111%	109%				117
A05-5-6 MSD	2/26/14	103%	102%				104
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"E" Reported results is an estimate because it exceeds the calibration range.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140226-30

Client Project # 1396010*00

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	2/26/14	107	nd	nd
A05-5-6	2/26/14	121	nd	nd
A05-5-6 Dup	2/26/14	121	nd	nd
A05-6-3	2/26/14	118	nd	nd
A05-6-3 Dup	2/26/14	114	nd	nd
A05-7-10	2/26/14	124	nd	nd
A05-8-9	2/26/14	126	nd	nd
A05-9-8	2/26/14	124	nd	nd
A05-10-10	2/26/14	128	nd	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on February 27, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 2/27/14

Page: 1 of 1

Client: Kennedy Jenks Consultants

Project Manager: Ty Schreiner

Address:

Project Name: Cornet Bay

City: State: Zip:

Location: Cornet Bay City, State: Duck Creek Harbor, WA

Phone: Fax:

Collector: Date of Collection: 2/26/14

Client Project # 1396010*00

Email:

Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes			
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-DX	PAH 8270	PCB's 8082	MTCAs 5 Metals				
1 <u>A05-11-10</u>	<u>10</u>	<u>1240</u>	<u>soil</u>	<u>200ml jar</u>	X				X	X								<u>sanded 2/26</u>
2 <u>A05-12-9</u>	<u>9</u>	<u>1245</u>	<u>soil</u>	<u>200ml jar</u>	X				X	X								
3 <u>A05-13-4</u>	<u>4</u>	<u>1320</u>	<u>soil</u>	<u>200ml jar</u>	X				X	X								
4 <u>A05-14-7</u>	<u>7</u>	<u>1325</u>	<u>soil</u>	<u>200ml jar</u>	X				X	X								
5 <u>SP5-3-1</u>	1	1300	soil	200ml jar	X				X	X								
6 <u>SP5-4-1</u>	<u>1</u>	<u>1305</u>	<u>soil</u>	<u>200ml jar</u>	X				X	X								
7 <u>SP5-5-1</u>	<u>1</u>	<u>1310</u>	<u>soil</u>	<u>200ml jar</u>	X				X	X								
8 <u>SP5-6-1</u>	<u>1</u>	<u>1315</u>	<u>soil</u>	<u>200ml jar</u>	X				X	X								
9 <u>SP5-7-1</u>	<u>1</u>	<u>1320</u>	<u>soil</u>	<u>200ml jar</u>	X				X	X								
10 <u>SP5-8-1</u>	<u>1</u>	<u>1325</u>	<u>soil</u>	<u>200ml jar</u>	X				X	X								
11 <u>SP5-9-1</u>																		
12 <u>SP5-10-1</u>	1	1335	soil	200ml jar	X				X	X								
13 <u>SP5-3-1</u>	<u>1</u>	<u>1300</u>	<u>soil</u>	<u>200ml jar</u>	X				X	X								<u>sanded 2/26</u>
14																		
15																		
16																		
17																		

Relinquished by: <u>[Signature]</u>	Date / Time: <u>2/27/14 1415</u>	Received by: <u>[Signature]</u>	Date / Time: <u>2/27/14 1415</u>	Sample Receipt:	Remarks: <u>ML</u>
Relinquished by:	Date / Time:	Received by:	Date / Time:	Good Condition?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Cold?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Seals Intact?	
				Total Number of Containers:	TAT: 24HR 48HR 5-DAY

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law. Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

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Email: libbyenv@aol.com

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140227-30
Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	2/27/14	nd	nd	nd	nd	nd	89
LCS	2/27/14	105%	88%				120
A05-11-10	2/27/14	0.49	nd	nd	nd	nd	85
A05-12-9	2/27/14	0.049	nd	nd	nd	nd	129
A05-13-4	2/27/14	nd	nd	nd	nd	nd	98
A05-14-7	2/27/14	nd	nd	nd	nd	nd	103
SP5-4-1	2/27/14	nd	nd	nd	nd	nd	114
SP5-5-1	2/27/14	0.23	nd	nd	nd	nd	112
SP5-5-1 Dup	2/27/14	0.20	nd	nd	nd	nd	112
SP5-6-1	2/27/14	nd	nd	nd	nd	nd	104
SP5-7-1	2/27/14	nd	nd	nd	nd	nd	105
SP5-8-1	2/27/14	nd	nd	nd	nd	nd	117
SP5-3-1	2/27/14	nd	nd	nd	nd	nd	121
A05-14-7 MS	2/27/14	112%	85%				98
A05-14-7 MSD	2/27/14	104%	91%				96
Practical Quantitation Limit		0.03	0.10	0.05	0.15	10	

"E" Reported results is an estimate because it exceeds the calibration range.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140227-30
Client Project # 1396010*00

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	2/27/14	90	nd	nd
A05-11-10	2/27/14	88	nd	nd
A05-12-9	2/27/14	84	nd	nd
A05-13-4	2/27/14	90	nd	nd
A05-14-7	2/27/14	86	nd	nd
SP5-4-1	2/27/14	111	nd	nd
SP5-5-1	2/27/14	112	nd	nd
SP5-6-1	2/27/14	92	nd	nd
SP5-6-1 Dup	2/27/14	94	nd	nd
SP5-7-1	2/27/14	82	nd	nd
SP5-8-1	2/27/14	122	nd	nd
SP5-3-1	2/27/14	89	nd	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on February 27 & 28, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 2/28/14

Page: 1 of 1

Client: Kennedy Jenks Consultants

Project Manager: Ty Schreiner

Address:

Project Name: Cornet Bay

City: State: Zip:

Location: Oak Harbor City, State: WA

Phone: Fax:

Collector: Date of Collection: 2/26-27/14

Client Project # 1396010*00

Email:

Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes		
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-DX	PAH 8270	PCB's 8082	MTCAs 5 Metals			
* 1 SPS-9-1	1	1330	SOIL	2VOL/12AR	X				X	X							sample taken 2/26/14
2 SPS-10-1	1	1335	SOIL	2VOL/12AR	X				X	X							" "
3 SPS-3-1	1	1300	SOIL	2VOL/12AR	X				X	X							" "
* 4 SPS-10-2 + SPS-10-4	1	1335	SOIL	2VOL/12AR	X				X	X							sampled 2/26/14
* 5 SPS-11-7 + SPS-11-8	1	1150	SOIL	2VOL/12AR	X				X	X							sampled 2/27/14
* 6 AOS-15-12	12	0830	SOIL	2VOL/12AR	X				X	X							
* 7 WSPS-1	1	1300	SOIL	2VOL/12AR	X				X	X							
* 8 WSPS-2	1	1305	SOIL	2VOL/12AR	X				X	X							
* 9 WSPS-3	1	1312	SOIL	2VOL/12AR	X				X	X							
* 10 WSPS-4	1	1320	SOIL	2VOL/12AR	X				X	X							
* 11 WSPS-5	1	1336	SOIL	2VOL/12AR	X				X	X							
* 12 WSPS-6	1	1341	SOIL	2VOL/12AR	X				X	X							
13																	
14																	
15																	
16																	
17																	

Relinquished by:	Date / Time	Received by:	Date / Time	Sample Receipt:	Remarks:
		<i>Paul Burke</i>	<u>2/28/14 1530</u>	Good Condition?	ML
Relinquished by:	Date / Time	Received by:	Date / Time	Cold?	
Relinquished by:	Date / Time	Received by:	Date / Time	Seals Intact?	
				Total Number of Containers	
				TAT: 24HR 48HR 5-DAY	

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law. Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

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Phone: (360) 352-2110
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Email: libbyenv@aol.com

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140228-30
Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	2/28/14	nd	nd	nd	nd	nd	101
LCS	2/28/14	104%	90%				118
SP5-9-1	2/28/14	nd	nd	nd	nd	nd	112
SP5-10-1	2/28/14	nd	nd	nd	nd	nd	66
SP5-11	2/28/14	0.035	nd	nd	nd	nd	106
A05-15-12	2/28/14	0.17	nd	nd	nd	nd	96
WSP5-1	2/28/14	2.6	0.45	5.0	3.0	229	int
WSP5-1 Dup	2/28/14	2.2	0.39	4.3	5.8	216	int
WSP5-2	2/28/14	1.2	0.48	6.4	4.7	253	int
WSP5-3	2/28/14	1.2	0.42	5.1	1.9	229	int
WSP5-4	2/28/14	1.2	0.40	4.1	7.8	236	int
WSP5-5	2/28/14	0.59	0.13	2.2	1.5	178	114
WSP5-6	2/28/14	0.36	0.098	0.92	0.77	78	121
SP5-11 MS	2/28/14	104%	91%				100
SP5-11 MSD	2/28/14	95%	76%				103
Practical Quantitation Limit		0.03	0.10	0.05	0.15	10	

"E" Reported results is an estimate because it exceeds the calibration range.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140228-30

Client Project # 1396010*00

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	2/27/14	90	nd	nd
Method Blank	2/28/14	92	nd	nd
SP5-9-1	2/27/14	96	nd	nd
SP5-10-1	2/27/14	117	nd	nd
SP5-10-1 Dup	2/27/14	128	nd	nd
SP5-11	2/28/14	86	nd	nd
A05-15-12	2/28/14	102	nd	nd
A05-15-12 Dup	2/28/14	101	nd	nd
WSP5-1	2/28/14	int	952	nd
WSP5-2	2/28/14	int	2940	nd
WSP5-3	2/28/14	int	927	nd
WSP5-4	2/28/14	int	1790	nd
WSP5-5	2/28/14	int	1250	nd
WSP5-6	2/28/14	int	1250	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on March 3, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 3/3/14

Page: 1 of 6

Client: Kennedy Jenks Consultants

Project Manager: Ty Schreiner

Address: _____

Project Name: Cornet Bay

City: _____ State: _____ Zip: _____

Location: Cornet Bay

City, State: Oak Harbor, WA

Phone: _____ Fax: _____

Collector: _____

Date of Collection: 3/3/14

Client Project # 1396010*00

Email: _____

Sample Number	Depth	Time	Sample Type	Container Type	Analytes											Field Notes		
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-DX	PAH 8270	PCB's 8082	MTCA 5 Metals				
1 SPS-12-1	1	0800	Soil	250ml jar	X				X	X								
2 SPS-13-1	1	0810	Soil	250ml jar	X				X	X								
3 SPS-14-1	1	0820	Soil	250ml jar	X				X	X								
4 SPS-15-1	1	1300	Soil	250ml jar	X				X	X								
5 SPS-16-1	1	1320	Soil	250ml jar	X				X	X								
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		

Relinquished by: <u>[Signature]</u>	Date / Time	Received by: <u>[Signature]</u>	Date / Time: <u>3/3/14 1630</u>	Sample Receipt:	Remarks: <u>ML</u>
Relinquished by:	Date / Time	Received by:	Date / Time	Good Condition?	
Relinquished by:	Date / Time	Received by:	Date / Time	Cold?	
Relinquished by:	Date / Time	Received by:	Date / Time	Seals Intact?	
				Total Number of Containers	TAT: 24HR 48HR 5-DAY

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law. Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

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CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140303-30
Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	3/3/14	nd	nd	nd	nd	nd	105
LCS	3/3/14	110%	88%				115
SP5-12-1	3/3/14	0.039	nd	nd	nd	nd	99
SP5-13-1	3/3/14	nd	nd	nd	nd	nd	117
SP5-14-1	3/3/14	nd	nd	nd	nd	nd	117
SP5-14-1 Dup	3/3/14	nd	nd	nd	nd	nd	102
SP5-15-1	3/3/14	0.051	nd	nd	nd	nd	102
SP5-16-1	3/3/14	0.030	nd	nd	nd	nd	101
SP5-12-1 MS	3/3/14	105%	90%				99
SP5-12-1 MSD	3/3/14	102%	87%				99
Practical Quantitation Limit		0.03	0.10	0.05	0.15	10	

"E" Reported results is an estimate because it exceeds the calibration range.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140303-30

Client Project # 1396010*00

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

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Email: libbyenv@aol.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	3/3/14	101	nd	nd
SP5-12-1	3/3/14	109	nd	nd
SP5-13-1	3/3/14	100	nd	nd
SP5-14-1	3/3/14	104	nd	nd
SP5-14-1 Dup	3/3/14	102	nd	nd
SP5-15-1	3/3/14	108	nd	nd
SP5-16-1	3/3/14	97	nd	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on March 6, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: ~~3/5/14~~ 3/6/14

Page: 1 of 1

Client: Kennedy Jenks Consultants

Project Manager: Ty Schreiner

Address:

Project Name: Cornet Bay

City: State: Zip:

Location: Cornet Bay City, State: Oak Harbor, WA

Phone: Fax:

Collector: Jared Fisher Date of Collection: ~~3/5/14~~

Client Project # 1396010 *00

Email: 3/6/14

Sample Number	EC Depth	Time	Sample Type	Container Type	Analytes										Field Notes		
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-DX	PAH 8270	PCB's 8082	MTCAs 5 Metals			
1 AOS-16-12	3	0739	SOIL	2V0A2/1JAR	X				X	X							
2 AOS-16-12 (DUP)	3	0739	SOIL	2V0A2/1JAR	X				X	X							
3 AOS-17-15	10	0742	SOIL	2V0A2/1JAR	X				X	X							
4 AOS-18-12	3	0745	SOIL	2V0A2/1JAR	X				X	X							
5 AOS-19-12	2	0911	SOIL	2V0A2/1JAR	X				X	X							
6 AOS-20-14	0	0920	SOIL	2V0A2/1JAR	X				X	X							
7 AOS-21-11	3	1120	SOIL	2V0A2/1JAR	X				X	X							
8 AOS-22-14	0	1132	SOIL	2V0A2/1JAR	X				X	X							
9 AOS-23-11	3																
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	

Relinquished by:	Date / Time: 3/6/14 1317	Received by:	Date / Time: 3/6/14 1317	Sample Receipt:	Remarks: ML	
Relinquished by:	Date / Time:	Received by:	Date / Time:			Good Condition?
						Cold?
						Seals Intact?
Relinquished by:	Date / Time:	Received by:	Date / Time:	Total Number of Containers	TAT: 24HR 48HR 5-DAY	

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law. Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

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Email: libbyenv@aol.com

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140306-30
Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	3/6/14	nd	nd	nd	nd	nd	106
LCS	3/6/14	115%	90%				106
A05-16-12	3/6/14	0.34	nd	nd	nd	nd	96
A05-16-12 (Dup)	3/6/14	0.40	nd	nd	nd	nd	101
A05-17-15	3/6/14	nd	nd	nd	nd	nd	96
A05-18-12	3/6/14	nd	nd	nd	nd	nd	96
A05-18-12 Dup	3/6/14	nd	nd	nd	nd	nd	99
A05-19-12	3/6/14	0.14	nd	nd	nd	nd	117
A05-20-14	3/6/14	0.17	nd	nd	nd	nd	106
A05-21-11	3/6/14	nd	nd	nd	nd	nd	100
A05-22-14	3/6/14	0.067	nd	nd	nd	nd	104
A05-17-15 MS	3/6/14	110%	92%				103
A05-17-15 MSD	3/6/14	110%	90%				108
Practical Quantitation Limit		0.03	0.10	0.05	0.15	10	

"E" Reported results is an estimate because it exceeds the calibration range.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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Olympia, WA 98506
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Email: libbyenv@aol.com

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140306-30
Client Project # 1396010*00

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	3/6/14	104	nd	nd
A05-16-12	3/6/14	101	nd	nd
A05-16-12 (Dup)	3/6/14	109	nd	nd
A05-17-15	3/6/14	102	nd	nd
A05-18-12	3/6/14	109	nd	nd
A05-19-12	3/6/14	107	nd	nd
A05-19-12 Dup	3/6/14	107	nd	nd
A05-20-14	3/6/14	97	nd	nd
A05-20-14 Dup	3/6/14	109	nd	nd
A05-21-11	3/6/14	100	nd	nd
A05-22-14	3/6/14	96	nd	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on March 10, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Date: 3/10/14 Page: 1 of 1

Client: Kennedy Jenks Consultants

Project Manager: Ty Schreiner

Address:

Project Name: Cornet Bay

City: State: Zip:

Location: Cornet Bay City, State: Oak Harbor, WA

Phone: Fax:

Collector: Date of Collection: 3/6/14 & 3/10/14

Client Project # 1396010*00

Email:

Sample Number	EL Depth	Time	Sample Type	Container Type	Analytes										Field Notes		
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-DX	PAH 8270	PCB's 8082	MTCA 5 Metals			
1 <u>A05-23-11</u>	<u>3</u>	<u>1201</u>	<u>SOIL</u>	<u>2 Voas/Jar</u>	X				X	X							<u>collected 3/6/14</u>
2 <u>A06-1-8</u>	<u>6</u>	<u>0915</u>	<u>SOIL</u>	<u>2 Voas/Jar</u>	X				X	X							
3 <u>A06-2-4</u>	<u>10</u>	<u>0921</u>	<u>SOIL</u>	<u>2 Voas/Jar</u>	X				X	X							
4 <u>A06-3-3</u>	<u>11</u>	<u>0927</u>	<u>SOIL</u>	<u>2 Voas/Jar</u>	X				X	X							
5 <u>A06-4-9</u>	<u>5</u>	<u>1226</u>	<u>SOIL</u>	<u>2 Voas/Jar</u>	X				X	X							
6 <u>A06-5-6</u>	<u>8</u>	<u>1253</u>	<u>SOIL</u>	<u>2 Voas/Jar</u>	X				X	X							
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	

Relinquished by: <u>[Signature]</u>	Date / Time: <u>3/10/14 1501</u>	Received by: <u>[Signature]</u>	Date / Time: <u>3/10/14 1502</u>	Sample Receipt:	Remarks: <u>ML</u>
Relinquished by:	Date / Time:	Received by:	Date / Time:	Good Condition?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Cold?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Seals Intact?	
				Total Number of Containers	TAT: 24HR 48HR 5-DAY

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law. Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

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Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140310-30
Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	3/10/14	nd	nd	nd	nd	nd	110
LCS	3/10/14	117%	101%				116
A05-23-11	3/10/14	nd	nd	nd	nd	nd	108
A05-23-11 Dup	3/10/14	nd	nd	nd	nd	nd	105
A06-1-8	3/10/14	nd	nd	nd	nd	nd	127
A06-2-4	3/10/14	nd	nd	nd	nd	nd	88
A06-3-3	3/10/14	nd	nd	nd	nd	nd	78
A06-4-9	3/10/14	nd	nd	nd	nd	nd	96
A06-5-6	3/10/14	nd	nd	nd	nd	nd	89
A05-23-11 MS	3/10/14	111%	92%				103
A05-23-11 MSD	3/10/14	97%	81%				93
Practical Quantitation Limit		0.03	0.10	0.05	0.15	10	

"E" Reported results is an estimate because it exceeds the calibration range.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140310-30
Client Project # 1396010*00

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	3/10/14	97	nd	nd
A05-23-11	3/10/14	112	nd	nd
A06-1-8	3/10/14	100	nd	nd
A06-2-4	3/10/14	104	nd	nd
A06-3-3	3/10/14	97	nd	nd
A06-4-9	3/10/14	106	nd	nd
A06-4-9 Dup	3/10/14	102	nd	nd
A06-5-6	3/10/14	101	nd	nd
A06-5-6 Dup	3/10/14	102	nd	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on March 11, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Date: 3/11/14 Page: 1 of 1

Client: Kennedy Jenks Consultants

Project Manager: Ty Schreiner

Address:

Project Name: Cornet Bay

City: State: Zip:

Location: Cornet Bay City, State: Oak Harbor, WA

Phone: Fax:

Collector: Date of Collection: 3/10-11/14

Client Project # 1396010*00

Email:



Sample Number	EC-Depth	Time	Sample Type	Container Type	VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-DX	PAH 8270	PCB's 8082	MTCA 5 Metals	Field Notes
1 <u>ADG-6-11</u>		<u>1756</u>	<u>SOIL</u>	<u>2VOLS/1 Jar</u>	X				X	X					<u>Collected 3/10/14</u>
2 <u>ADG-7-6</u>	<u>8'</u>	<u>1000</u>	<u>SOIL</u>	<u>2VOLS/1 Jar</u>	X				X	X					<u>collected 3/11/14</u>
3 <u>ADG-8-7</u>		<u>1006</u>	<u>SOIL</u>	<u>2VOLS/1 Jar</u>	X				X	X					<u>" "</u>
4 <u>ADG-9-11</u>		<u>1010</u>	<u>SOIL</u>	<u>↓</u>	X				X	X					<u>" "</u>
5 <u>ADG-10-5</u>		<u>1100</u>	<u>SOIL</u>	<u>↓</u>	X				X	X					<u>" "</u>
6 <u>ADG-11-8</u>		<u>1200</u>	<u>SOIL</u>	<u>↓</u>	X				X	X					<u>" "</u>
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															

Relinquished by:	Date / Time	Received by:	Date / Time	Sample Receipt:	Remarks: <u>ML</u> TAT: 24HR 48HR 5-DAY
		<u>Paul Bubb</u>	<u>3/11/14 1630</u>	Good Condition?	
				Cold?	
				Seals Intact?	
Relinquished by:	Date / Time	Received by:	Date / Time	Total Number of Containers	

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law. Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
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Email: libbyenv@aol.com

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140311-30
Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	3/11/14	nd	nd	nd	nd	nd	95
LCS	3/11/14	101%	92%				100
A06-6-11	3/11/14	nd	nd	nd	nd	nd	89
A06-7-6	3/11/14	nd	nd	nd	nd	nd	102
A06-8-7	3/11/14	nd	nd	nd	nd	nd	97
A06-6-11 MS	3/11/14	100%	84%				97
A06-6-11 MSD	3/11/14	103%	88%				100
Practical Quantitation Limit		0.03	0.10	0.05	0.15	10	

"E" Reported results is an estimate because it exceeds the calibration range.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

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Email: libbyenv@aol.com

CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140311-30

Client Project # 1396010*00

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	3/11/14	102	nd	nd
A06-6-11	3/11/14	102	nd	nd
A06-7-6	3/11/14	112	nd	nd
A06-8-7	3/11/14	104	nd	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on March 12, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 3/12/14

Page: 1 of 1

Client: Kennedy Jenks Consultants

Project Manager: Ty Schreiner

Address:

Project Name: Cornet Bay

City: State: Zip:

Location: Cornet Bay City, State: Oak Harbor, WA

Phone: Fax:

Collector: Date of Collection: 3/11

Client Project # 1396010*00

Email:



Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes		
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-DX	PAH 8270	PCB's 8082	MTCAs 5 Metals			
* 1 A06-9-11		1010	Soil	21605/1 Jar	X				X	X							Collected 3/11/14
2 A06-10-5		1100			X				X	X							LL "
* 3 A06-11-8		1200			X				X	X							LL "
4 A06-12-5		1447			X				X	X							LL "
* 5 A06-13-7		1455			X				X	X							LL "
* 6 A06-14-11		1501			X				X	X							LL "
7 A06-15-8		1115	Soil	21605/1 Jar	X				X	X							Collected 3/12/14
8 A07-C012-17		1220	Soil	21605/1 Jar	X				X	X							LL "
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	

Relinquished by: <u>[Signature]</u>	Date / Time: <u>3/12/14 1500</u>	Received by: <u>[Signature]</u>	Date / Time: <u>1500 3/12/14</u>	Sample Receipt:	Remarks: <u>ML</u>		
Relinquished by:	Date / Time:	Received by:	Date / Time:			Good Condition?	
						Cold?	
						Seals Intact?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Total Number of Containers	TAT: 24HR 48HR 5-DAY		

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law. Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

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CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140312-30
Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	3/12/14	nd	nd	nd	nd	nd	88
LCS	3/12/14	93%	84%				94
A06-9-11	3/12/14	nd	nd	nd	nd	nd	94
A06-10-5	3/12/14	nd	nd	nd	nd	nd	91
A06-11-8	3/12/14	nd	nd	nd	nd	nd	95
A06-12-5	3/12/14	0.36	0.40	1.4	2.8	102	96
A06-13-7	3/12/14	nd	nd	nd	nd	nd	101
A06-13-7 Dup	3/12/14	nd	nd	nd	nd	nd	92
A06-14-11	3/12/14	nd	nd	nd	nd	nd	114
A06-15-8	3/12/14	nd	nd	nd	nd	nd	101
A07-Cal1-17	3/12/14	nd	nd	nd	nd	nd	115
A06-10-5 MS	3/12/14	95%	78%				89
A06-10-5 MSD	3/12/14	104%	74%				107
Practical Quantitation Limit		0.03	0.10	0.05	0.15	10	

"E" Reported results is an estimate because it exceeds the calibration range.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140312-30

Client Project # 1396010*00

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	3/12/14	100	nd	nd
A06-9-11	3/12/14	99	nd	nd
A06-10-5	3/12/14	99	nd	nd
A06-10-5 Dup	3/12/14	105	nd	nd
A06-11-8	3/12/14	97	nd	nd
A06-12-5	3/12/14	129	nd	nd
A06-12-5 Dup	3/12/14	124	nd	nd
A06-13-7	3/12/14	99	nd	nd
A06-14-11	3/12/14	108	nd	nd
A06-15-8	3/12/14	100	nd	nd
A07-Cal1-17	3/12/14	105	nd	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on March 14, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 3/14/14 ^{collector}

Page: 1 of 1

Client: Kennedy Jenks Consultants

Project Manager: Ty Schreiner

Address:

Project Name: Cornet Bay

City: State: Zip:

Location: Cornet Bay City, State: Dak Harbor, WA

Phone: Fax:

Collector: Date of Collection:

Client Project # 1396010*00

Email:

Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes			
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-Dx	PAH 8270	PCBs 8082	MTCA 5 Metals				
1 <u>A06-16-8</u>	<u>8</u>	<u>1530</u>	<u>SOIL</u>	<u>200ml jar</u>	X				X	X								<u>collected on 3/12/14</u>
2 <u>A07-1-8</u>	<u>8</u>	<u>0945</u>	<u>U</u>	<u>U</u>	X				X	X								<u>collected 3/14/14</u>
3 <u>KW-10</u>	<u>10</u>	<u>1115</u>	<u>U</u>	<u>U</u>	X				X	X								<u>" "</u>
4 <u>A07-2-6</u>	<u>6</u>	<u>1120</u>	<u>U</u>	<u>U</u>	X				X	X								<u>" "</u>
5 <u>A07-3-2</u>	<u>12</u>	<u>1240</u>	<u>U</u>	<u>U</u>	X				X	X								<u>" "</u>
6 <u>A07-4-8</u>	<u>8</u>	<u>1245</u>	<u>U</u>	<u>U</u>	X				X	X								<u>" "</u>
7 <u>A07-5-6</u>	<u>6</u>	<u>1255</u>	<u>U</u>	<u>U</u>	X				X	X								<u>" "</u>
8																		
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13																		
14																		
15																		
16																		
17																		

Relinquished by: [Signature] Date / Time: 3/14/14 1425 Received by: [Signature] Date / Time: 3/14/14 1425

Sample Receipt:

Remarks:

Relinquished by: Date / Time: Received by: Date / Time:

Good Condition?

Cold?

Seals Intact?

Total Number of Containers

ML

TAT: 24HR 48HR 5-DAY

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law.

Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

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Email: libbyenv@aol.com

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140314-30
Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	3/14/14	nd	nd	nd	nd	nd	107
LCS	3/14/14	97%	86%				106
A06-16-8	3/14/14	nd	nd	nd	nd	nd	103
A06-16-8 Dup	3/14/14	nd	nd	nd	nd	nd	81
A07-1-8	3/14/14	nd	nd	nd	nd	nd	108
VW-10	3/14/14	nd	nd	nd	nd	nd	129
A07-2-6	3/14/14	nd	nd	nd	nd	nd	123
A07-3-12	3/14/14	0.11	nd	nd	nd	nd	110
A07-4-8	3/14/14	nd	nd	nd	nd	nd	106
A07-5-6	3/14/14	nd	nd	nd	nd	nd	111
A06-16-8 MS	3/14/14	98%	89%				103
A06-16-8 MSD	3/14/14	97%	86%				102
Practical Quantitation Limit		0.03	0.10	0.05	0.15	10	

"E" Reported results is an estimate because it exceeds the calibration range.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140314-30

Client Project # 1396010*00

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	3/14/14	100	nd	nd
A06-16-8	3/14/14	110	nd	nd
A06-16-8 Dup	3/14/14	98	nd	nd
A07-1-8	3/14/14	99	nd	nd
VW-10	3/14/14	107	nd	nd
A07-2-6	3/14/14	108	nd	nd
A07-3-12	3/14/14	101	nd	nd
A07-4-8	3/14/14	102	nd	nd
A07-5-6	3/14/14	106	nd	nd
A07-5-6 Dup	3/14/14	105	nd	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on March 17, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 3/17/14 Page: 1 of 1

Client: Kennedy/Jenks

Project Manager: Ty Schreiner

Address:

Project Name: Cornet Bay

City: State: Zip:

Location: Cornet Bay City, State: Dark Harbor, WA

Phone: Fax:

Collector: Date of Collection:

Client Project # 1396010*00

Email:

Sample Number	Depth	Time	Sample Type	Container Type											Field Notes							
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-DX	PAH 8270	PCB's 8082	MTCA 5 Metals								
1	A07-6-6	6	1410	soil	200ml jar	X					X	X										collected on 3/17/14
2	A07-7-10	10	825			X					X	X										
3	A07-8-8	8	835			X					X	X										
4	A07-9-10	10	845			X					X	X										
5	A07-100	10	850			X					X	X										
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						
17																						

Relinquished by: <u>[Signature]</u>	Date / Time: <u>3/17/14 1310</u>	Received by: <u>[Signature]</u>	Date / Time: <u>3/17/14 1310</u>	Sample Receipt:	Remarks: <u>ML</u>
Relinquished by:	Date / Time:	Received by:	Date / Time:	Good Condition?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Cold?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Seals Intact?	
				Total Number of Containers	TAT: 24HR 48HR 5-DAY

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law. Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

4139 Libby Road NE
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Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140317-30
Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	3/17/14	nd	nd	nd	nd	nd	77
LCS	3/17/14	74%	91%				80
A07-6-6	3/17/14	nd	nd	nd	nd	nd	87
A07-7-10	3/17/14	nd	nd	nd	nd	nd	99
A07-8-8	3/17/14	nd	nd	nd	nd	nd	98
A07-8-8 Dup	3/17/14	nd	nd	nd	nd	nd	93
A07-9-10	3/17/14	nd	nd	nd	nd	nd	92
A07-100	3/17/14	nd	nd	nd	nd	nd	89
A07-100 MS	3/17/14	70%	88%				82
A07-100 MSD	3/17/14	72%	90%				86
Practical Quantitation Limit		0.03	0.10	0.05	0.15	10	

"E" Reported results is an estimate because it exceeds the calibration range.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140317-30

Client Project # 1396010*00

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	3/17/14	104	nd	nd
A07-6-6	3/17/14	102	nd	nd
A07-6-6 Dup	3/17/14	108	nd	nd
A07-7-10	3/17/14	102	nd	nd
A07-8-8	3/17/14	108	nd	nd
A07-9-10	3/17/14	108	nd	nd
A07-100	3/17/14	117	nd	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on March 24, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 3/24/14

Page: 1 of 1

Client: Kennedy Jenks Consultants

Project Manager: Ty Schreiner

Address: _____

Project Name: Cornet Bay

City: _____ State: _____ Zip: _____

Location: Cornet Bay

City, State: Oak Harbor, WA

Phone: _____ Fax: _____

Collector: Ray

Date of Collection: 3/24/14

Client Project # 1396010 *00

Email: _____



Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes			
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-Dx	PAH 8270	PCBs 8082	MTCA 5 Metals				
1 A04-16-8	8	0920	Soil	2 seal/liter	X				X		X							
2 A04-Cal-EL	4	1320	Soil	2 seal/liter	X				X		X							
3 A07-10-8	8	1340	Soil	2 seal/liter	X				X		X							
4 A04-151-3	3	1400	Soil	2 seal/liter	X				X		X							
5 A04-17-1	11	1700	Soil	2 seal/liter	X				X		X							
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		

Relinquished by: _____	Date / Time: <u>3/24/14 1630</u>	Received by: <u>Paul Bud</u>	Date / Time: <u>3/24/14 1630</u>	Sample Receipt:	Remarks: <u>ML</u>		
Relinquished by: _____	Date / Time: _____	Received by: _____	Date / Time: _____			Good Condition?	
Relinquished by: _____	Date / Time: _____	Received by: _____	Date / Time: _____			Cold?	
Relinquished by: _____	Date / Time: _____	Received by: _____	Date / Time: _____			Seals Intact?	
				Total Number of Containers	TAT: 24HR 48HR 5-DAY		

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law. Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140324-30
Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	3/24/14	nd	nd	nd	nd	nd	80
LCS	3/24/14	125%	110%				134
A04-16-8	3/24/14	nd	nd	nd	nd	nd	105
A04-16-8 Dup	3/24/14	nd	nd	nd	nd	nd	103
A04-Cal-EL	3/24/14	2.4	2.8 E	14 E	36 E	1190 E	int
A07-10-8	3/24/14	nd	nd	nd	nd	nd	113
A04-16-8 MS	3/24/14	104%	92%				104
A04-16-8 MSD	3/24/14	103%	92%				97
Practical Quantitation Limit		0.03	0.10	0.05	0.15	10	

"E" Reported results is an estimate because it exceeds the calibration range.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140324-30
Client Project # 1396010*00

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	3/24/14	101	nd	nd
A04-16-8	3/24/14	113	nd	nd
A04-16-8 Dup	3/24/14	114	nd	nd
A04-Cal-EL	3/24/14	int	nd	nd
A07-10-8	3/24/14	116	nd	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on March 25, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Date: 3/25/14 Page: 1 of 1

Client: Kennedy Jenks Consultants

Project Manager: Ty Schreiner

Address:

Project Name: Cornet Bay

City: State: Zip:

Location: Cornet Bay City, State: Oak Harbor, WA

Phone: Fax:

Collector: Jared Date of Collection:

Client Project # 1396010 *00

Email:

Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes		
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-Dx	PAH 8270	PCB's 8082	MTCAs 5 Metals			
1 <u>A04-151-3</u>	<u>3</u>	<u>1410</u>	<u>Soil</u>	<u>2Vials/1Jar</u>	X					X	X						<u>collected 3/24/14</u>
2 <u>A04-17-11</u>	<u>11</u>	<u>1500</u>	<u>LIQ</u>	<u>"</u>	X					X	X						<u>collected 3/25/14</u>
3 <u>A07-11-10</u>	<u>10</u>	<u>1029</u>	<u>SOIL</u>	<u>2Vials/1Jar</u>	X					X	X						<u>collected 3/25/14</u>
4 <u>A07-12-12.S</u>	<u>12.S</u>	<u>1227</u>	<u>SOIL</u>	<u>2Vials/1Jar</u>	X					X	X						<u>LI LI</u>
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
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16																	
17																	

Relinquished by: <u>[Signature]</u>	Date / Time: <u>3/25/14 1618</u>	Received by: <u>[Signature]</u>	Date / Time: <u>3/25/14 1618</u>	Sample Receipt: Good Condition? <input type="checkbox"/> Cold? <input type="checkbox"/> Seals Intact? <input type="checkbox"/> Total Number of Containers: <input type="text"/>	Remarks: <u>ML</u> TAT: 24HR 48HR 5-DAY
Relinquished by:	Date / Time:	Received by:	Date / Time:		
Relinquished by:	Date / Time:	Received by:	Date / Time:		
Relinquished by:	Date / Time:	Received by:	Date / Time:		

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law. Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
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Email: libbyenv@aol.com

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140325-30
Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	3/25/14	nd	nd	nd	nd	nd	124
LCS	3/25/14	131%	111%				130
A04-151-3	3/25/14	0.039	nd	0.053	0.30	nd	118
A04-17-11	3/25/14	nd	nd	nd	nd	nd	115
A04-17-11 Dup	3/25/14	nd	nd	nd	nd	nd	107
A07-11-10	3/25/14	nd	nd	nd	nd	nd	112
A07-12-12.5	3/25/14	0.073	nd	nd	nd	nd	118
A04-151-3 MS	3/25/14	123%	110%				108
A04-151-3 MSD	3/25/14	118%	106%				102
Practical Quantitation Limit		0.03	0.10	0.05	0.15	10	

"E" Reported results is an estimate because it exceeds the calibration range.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140325-30

Client Project # 1396010*00

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	3/25/14	103	nd	nd
A04-151-3	3/25/14	113	nd	nd
A04-151-3 Dup	3/25/14	110	nd	nd
A04-17-11	3/25/14	110	nd	nd
A04-17-11 Dup	3/25/14	107	nd	nd
A07-11-10	3/25/14	120	nd	nd
A07-12-12.5	3/25/14	112	nd	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. A soil sample was analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on March 26, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 3/26/14

Page: 1 of 1

Client: Kennedy Jenks Consultants

Project Manager: Ty Schreiner

Address:

Project Name: Cornet Bay

City: State: Zip:

Location: Cornet Bay City, State: Oak Harbor, WA

Phone: Fax:

Collector: Jarod Date of Collection: 3/26/14

Client Project # 1390010*00

Email:



Sample Number	Depth	Time	Sample Type	Container Type	VOA 802-1B	VOA 802-1B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HClD	NWTPH-Gx	NWTPH-Dx	PAH 8270	PCB's 8082	MTCA 5 Metals	Field Notes
1 <u>405-24-7</u>		<u>1400</u>	<u>soil</u>	<u>VOAG/Jar.</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															

Relinquished by: <u>[Signature]</u>	Date / Time: <u>3/26/14 1531</u>	Received by: <u>[Signature]</u>	Date / Time: <u>3/26/14 1531</u>	Sample Receipt: Good Condition? <input type="checkbox"/> Cold? <input type="checkbox"/> Seals Intact? <input type="checkbox"/> Total Number of Containers: <input type="text"/>	Remarks: <u>ML</u> TAT: 24HR 48HR 5-DAY
Relinquished by:	Date / Time:	Received by:	Date / Time:		
Relinquished by:	Date / Time:	Received by:	Date / Time:		
Relinquished by:	Date / Time:	Received by:	Date / Time:		

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law. Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140326-30
Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	3/26/14	nd	nd	nd	nd	nd	73
LCS	3/26/14	89%	88%				76
A05-24-7	3/26/14	nd	nd	nd	nd	nd	129
A05-24-7 Dup	3/26/14	nd	nd	nd	nd	nd	91
A05-24-7 MS	3/26/14	74%	69%				71
A05-24-7 MSD	3/26/14	84%	109%				75
Practical Quantitation Limit		0.03	0.10	0.05	0.15	10	

"E" Reported results is an estimate because it exceeds the calibration range.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140326-30

Client Project # 1396010*00

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	3/26/14	109	nd	nd
A05-24-7	3/26/14	113	nd	nd
A05-24-7 Dup	3/26/14	105	nd	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 12, 2014

Ty Schreiner
Kennedy Jenks Consultants, Inc.
32001 32nd Avenue S, Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner:

Please find enclosed the analytical data report for the Cornet Bay Project located in Oak Harbor, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended with Silica Gel Clean Up on March 27, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 3/27/14

Page: 1 of 1

Client: Kennedy Jenks Consultants

Project Manager: Ty Schreiner

Address:

Project Name: Cornet Bay

City: State: Zip:

Location: Cornet Bay

City, State: Oak Harbor, WA

Phone: Fax:

Collector: Jarod

Date of Collection: 3/26-27/14

Client Project # 1396010 * 00

Email:



Sample Number	Depth	Time	Sample Type	Container Type	VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-Dx	PAH 8270	PCB's 8082	MTCA 5 Metals	Field Notes
1 <u>A07-13-11</u>		<u>1250</u>	<u>soil</u>	<u>2Voas/1Jar</u>	X				X	X					<u>collected 3/26/14</u>
2 <u>A07-14-5</u>		<u>1300</u>	↓	↓	X				X	X					↓
3 <u>A07-15-10</u>		<u>1310</u>	↓	↓	X				X	X					↓
4 <u>A07-16-10</u>		<u>1439</u>	↓	↓	X				X	X					↓
5 <u>A07-17-5</u>		<u>1520</u>	↓	↓	X				X	X					↓
* 6 <u>A06-17-7</u>		<u>1200</u>	<u>soil</u>	<u>2Voas/1Jar</u>	X				X	X					<u>collected 3/27/14</u>
* 7 <u>A06-18-3</u>		<u>1210</u>	<u>soil</u>	<u>2Voas/1Jar</u>	X				X	X					<u>" "</u>
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															

Relinquished by:	Date / Time	Received by:	Date / Time	Sample Receipt:	Remarks: <u>ML</u> TAT: 24HR 48HR 5-DAY
Relinquished by:	Date / Time	<u>Paul Bunk</u>	<u>3/27/14 1635</u>	Good Condition?	
Relinquished by:	Date / Time			Cold?	
Relinquished by:	Date / Time			Seals Intact?	
				Total Number of Containers	

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law. Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

CORNET BAY PROJECT
Kennedy Jenks Consultants, Inc.
Oak Harbor, Washington
Libby Project # L140327-30
Client Project # 1396010*00

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	3/27/14	nd	nd	nd	nd	nd	129
LCS	3/27/14	133%	133%				133
A07-13-11	3/27/14	nd	nd	nd	nd	nd	113
A07-14-5	3/27/14	nd	nd	nd	nd	nd	132
A07-15-10	3/27/14	nd	nd	nd	nd	nd	134
A07-16-10	3/27/14	nd	nd	nd	nd	nd	134
A07-17-5	3/27/14	nd	nd	nd	nd	nd	104
A07-17-7	3/27/14	nd	nd	nd	nd	nd	134
A06-17-7 Dup	3/27/14	nd	nd	nd	nd	nd	130
A06-18-3	3/27/14	0.10	nd	nd	nd	23	129
A07-13-11 MS	3/27/14	107%	102%				133
A07-13-11 MSD	3/27/14	98%	102%				135
Practical Quantitation Limit		0.03	0.10	0.05	0.15	10	

"E" Reported results is an estimate because it exceeds the calibration range.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

CORNET BAY PROJECT

Kennedy Jenks Consultants, Inc.

Oak Harbor, Washington

Libby Project # L140327-30

Client Project # 1396010*00

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil with Silica Gel Clean Up

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	3/27/14	105	nd	nd
A07-13-11	3/27/14	108	nd	nd
A07-14-5	3/27/14	107	nd	nd
A07-15-10	3/27/14	111	nd	nd
A07-16-10	3/27/14	107	nd	nd
A07-17-5	3/27/14	107	nd	nd
A07-17-5 Dup	3/27/14	115	nd	nd
A06-17-7	3/27/14	110	nd	nd
A06-18-3	3/27/14	116	nd	nd
Practical Quantitation Limit			25	40

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke



January 29, 2014

Mr. Dean Malte
Kennedy/Jenks Consultants
32001 - 32nd Ave S., Suite 100
Federal Way, WA 98001

Dear Mr. Malte,

On January 28th, 2 samples were received by our laboratory and assigned our laboratory project number EV14010143. The project was identified as your Cornet Bay. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director



CERTIFICATE OF ANALYSIS

CLIENT: Kennedy/Jenks Consultants
 32001 - 32nd Ave S., Suite 100
 Federal Way, WA 98001

DATE: 1/29/2014
 ALS JOB#: EV14010143
 ALS SAMPLE#: EV14010143-01
 DATE RECEIVED: 01/28/2014
 COLLECTION DATE: 1/27/2014 7:00:00 PM
 WDOE ACCREDITATION: C601

CLIENT CONTACT: Dean Malte
 CLIENT PROJECT: Cornet Bay
 CLIENT SAMPLE ID: SP1-1

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/29/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	01/29/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	01/29/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	01/29/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	01/29/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	01/28/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	01/28/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	68.0	01/29/2014	DLC
TFT	EPA-8021	65.2	01/29/2014	DLC
C25	NWTPH-DX	96.7	01/28/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	1/29/2014
CLIENT CONTACT:	Dean Malte	ALS JOB#:	EV14010143
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14010143-02
CLIENT SAMPLE ID	SP1-2	DATE RECEIVED:	01/28/2014
		COLLECTION DATE:	1/27/2014 7:05:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/29/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	01/29/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	01/29/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	01/29/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	01/29/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	01/28/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	01/28/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	78.8	01/29/2014	DLC
TFT	EPA-8021	82.3	01/29/2014	DLC
C25	NWTPH-DX	98.3	01/28/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	1/29/2014
CLIENT CONTACT:	Dean Malte	ALS SDG#:	EV14010143
CLIENT PROJECT:	Cornet Bay	WDOE ACCREDITATION:	C601

LABORATORY BLANK RESULTS

MB-012814S - Batch 7579 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/29/2014	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-012814S - Batch 7579 - Soil by EPA-8021

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8021	U	0.030	1	MG/KG	01/29/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	01/29/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	01/29/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	01/29/2014	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-012114S - Batch 7563 - Soil by NWTPH-DX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	01/22/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	01/22/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: Kennedy/Jenks Consultants
32001 - 32nd Ave S., Suite 100
Federal Way, WA 98001

DATE: 1/29/2014
ALS SDG#: EV14010143
WDOE ACCREDITATION: C601

CLIENT CONTACT: Dean Malte
CLIENT PROJECT: Cornet Bay

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 7579 - Soil by NWTPH-GX

Table with 7 columns: SPIKED COMPOUND, METHOD, %REC, RPD, QUAL, ANALYSIS DATE, ANALYSIS BY. Rows include TPH-Volatile Range - BS and TPH-Volatile Range - BSD.

ALS Test Batch ID: 7579 - Soil by EPA-8021

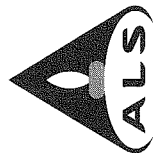
Table with 7 columns: SPIKED COMPOUND, METHOD, %REC, RPD, QUAL, ANALYSIS DATE, ANALYSIS BY. Rows include Benzene, Toluene, Ethylbenzene, and Xylenes in both BS and BSD forms.

ALS Test Batch ID: 7563 - Soil by NWTPH-DX

Table with 7 columns: SPIKED COMPOUND, METHOD, %REC, RPD, QUAL, ANALYSIS DATE, ANALYSIS BY. Rows include TPH-Diesel Range - BS and TPH-Diesel Range - BSD.

APPROVED BY

Laboratory Director



ALS Environmental
 8620 Holly Drive, Suite 100
 Everett, WA 98208
 Phone (425) 356-2600
 Fax (425) 356-2626
 http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV14010143

Date 1/20/14 Page 1 of 1

PROJECT ID: REPORT TO COMPANY: PROJECT MANAGER: ADDRESS: PHONE: PO. #: INVOICE TO COMPANY: ATTENTION: ADDRESS:	ANALYSIS REQUESTED				LAB#							
	MTBE by EPA-8021 <input type="checkbox"/> EPA-8260 <input type="checkbox"/>	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EPA / EDC by EPA 8260 SIM (water)		EPA / EDC by EPA 8260 (soil)	Semi-volatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM <input type="checkbox"/>	PCB <input type="checkbox"/> Pesticides <input type="checkbox"/> by EPA 8081/8082	Metals-MTCA-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> P4 Pol <input type="checkbox"/> TAL <input type="checkbox"/>	Metals Other (Specify)	TCLP-Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-Vol <input type="checkbox"/> Pest <input type="checkbox"/> Herbs <input type="checkbox"/>
CORNET BAY Kennedy/Beaks Report to Dean MATC 32001 32nd Ave S, Ste 100 Federal Way, WA 98001 253 835 6700 FAX: E-MAIL: deanmatc@kennedy32001.com K5 See above												
	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA-8021								
1. SPT-1	XXX											
2. SPT-2	XXX											
3.												
4.												
5.												
6.												
7.												
8.												
9.												
10.												

SPECIAL INSTRUCTIONS: Area 01 Stockpile

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Dean Matc, K5C 1/20/14 1:00
 Received By: ALS - ACS 1/20/14 1:00

2. Relinquished By: _____
 Received By: _____

TURNAROUND REQUESTED in Business Days*
 OTHER: _____

Specify: Due Wednesday by noon
 Standard 10 5 3 2 1 SAME DAY

* Turnaround request less than standard may incur Rush Charges



January 31, 2014

Mr. Dean Malte
Kennedy/Jenks Consultants
32001 - 32nd Ave S., Suite 100
Federal Way, WA 98001

Dear Mr. Malte,

On January 30th, 7 samples were received by our laboratory and assigned our laboratory project number EV14010167. The project was identified as your Cornet Bay. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director



CERTIFICATE OF ANALYSIS

CLIENT: Kennedy/Jenks Consultants
 32001 - 32nd Ave S., Suite 100
 Federal Way, WA 98001

DATE: 1/31/2014
 ALS JOB#: EV14010167
 ALS SAMPLE#: -01
 DATE RECEIVED: 1/30/2014
 COLLECTION DATE: 1/29/2014 1:30:00 PM
 WDOE ACCREDITATION: C601

CLIENT CONTACT: Dean Malte
 CLIENT PROJECT: Cornet Bay
 CLIENT SAMPLE ID: SP2-1

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/30/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	01/30/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	01/30/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	01/30/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	01/30/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	01/30/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	01/30/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	114	01/30/2014	DLC
TFT	EPA-8021	118	01/30/2014	DLC
C25	NWTPH-DX	68.2	01/30/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	1/31/2014
CLIENT CONTACT:	Dean Malte	ALS JOB#:	EV14010167
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	-02
CLIENT SAMPLE ID	SP2-2	DATE RECEIVED:	1/30/2014
		COLLECTION DATE:	1/29/2014 1:30:00 PM
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/30/2014	DLC
Benzene	EPA-8021	0.037	0.030	1	MG/KG	01/30/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	01/30/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	01/30/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	01/30/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	01/30/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	01/30/2014	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Pyrene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
PCB-1016	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1260	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1268	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
Mercury	EPA-7471	0.049	0.020	1	MG/KG	01/30/2014	RAL
Arsenic	EPA-6020	7.2	1.0	5	MG/KG	01/30/2014	RAL
Barium	EPA-6020	56	0.50	5	MG/KG	01/30/2014	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	01/30/2014	RAL
Chromium	EPA-6020	40	0.52	5	MG/KG	01/30/2014	RAL

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	1/31/2014
CLIENT CONTACT:	Dean Malte	ALS JOB#:	EV14010167
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	-02
CLIENT SAMPLE ID	SP2-2	DATE RECEIVED:	1/30/2014
		COLLECTION DATE:	1/29/2014 1:30:00 PM
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Lead	EPA-6020	4.7	0.50	5	MG/KG	01/30/2014	RAL
Selenium	EPA-6020	U	5.0	5	MG/KG	01/30/2014	RAL
Silver	EPA-6020	U	0.50	5	MG/KG	01/30/2014	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.4	01/30/2014	DLC
TFT	EPA-8021	103	01/30/2014	DLC
C25	NWTPH-DX	70.0	01/30/2014	EBS
Terphenyl-d14	EPA-8270 SIM	73.4	01/30/2014	LAP
TCMX	EPA-8082	89.0	01/30/2014	LAP
DCB	EPA-8082	93.0	01/30/2014	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	1/31/2014
CLIENT CONTACT:	Dean Malte	ALS JOB#:	EV14010167
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	-03
CLIENT SAMPLE ID	SP2-3	DATE RECEIVED:	1/30/2014
		COLLECTION DATE:	1/29/2014 1:30:00 PM
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/30/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	01/30/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	01/30/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	01/30/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	01/30/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	01/30/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	01/30/2014	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Phenanthrene	EPA-8270 SIM	37	20	1	UG/KG	01/30/2014	LAP
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Fluoranthene	EPA-8270 SIM	32	20	1	UG/KG	01/30/2014	LAP
Pyrene	EPA-8270 SIM	31	20	1	UG/KG	01/30/2014	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
PCB-1016	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1260	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1268	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
Mercury	EPA-7471	0.041	0.020	1	MG/KG	01/30/2014	RAL
Arsenic	EPA-6020	5.2	1.0	5	MG/KG	01/30/2014	RAL
Barium	EPA-6020	55	0.50	5	MG/KG	01/30/2014	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	01/30/2014	RAL
Chromium	EPA-6020	39	0.50	5	MG/KG	01/30/2014	RAL

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	1/31/2014
CLIENT CONTACT:	Dean Malte	ALS JOB#:	EV14010167
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	-03
CLIENT SAMPLE ID	SP2-3	DATE RECEIVED:	1/30/2014
		COLLECTION DATE:	1/29/2014 1:30:00 PM
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Lead	EPA-6020	9.5	0.50	5	MG/KG	01/30/2014	RAL
Selenium	EPA-6020	U	5.0	5	MG/KG	01/30/2014	RAL
Silver	EPA-6020	U	0.50	5	MG/KG	01/30/2014	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	108	01/30/2014	DLC
TFT	EPA-8021	121	01/30/2014	DLC
C25	NWTPH-DX	58.2	01/30/2014	EBS
Terphenyl-d14	EPA-8270 SIM	73.9	01/30/2014	LAP
TCMX	EPA-8082	88.0	01/30/2014	LAP
DCB	EPA-8082	91.0	01/30/2014	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	1/31/2014
CLIENT CONTACT:	Dean Malte	ALS JOB#:	EV14010167
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	-04
CLIENT SAMPLE ID	SP2-4	DATE RECEIVED:	1/30/2014
		COLLECTION DATE:	1/29/2014 1:30:00 PM
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/30/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	01/30/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	01/30/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	01/30/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	01/30/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	01/30/2014	EBS
TPH-Oil Range	NWTPH-DX	58	50	1	MG/KG	01/30/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	99.8	01/30/2014	DLC
TFT	EPA-8021	110	01/30/2014	DLC
C25	NWTPH-DX	87.2	01/30/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains lube oil.

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	1/31/2014
CLIENT CONTACT:	Dean Malte	ALS JOB#:	EV14010167
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	-05
CLIENT SAMPLE ID	SP2-5	DATE RECEIVED:	1/30/2014
		COLLECTION DATE:	1/29/2014 1:30:00 PM
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/30/2014	DLC
Benzene	EPA-8021	0.031	0.030	1	MG/KG	01/30/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	01/30/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	01/30/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	01/30/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	01/30/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	01/30/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.7	01/30/2014	DLC
TFT	EPA-8021	106	01/30/2014	DLC
C25	NWTPH-DX	82.0	01/30/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	1/31/2014
CLIENT CONTACT:	Dean Malte	ALS JOB#:	EV14010167
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	-06
CLIENT SAMPLE ID	SP2-6	DATE RECEIVED:	1/30/2014
		COLLECTION DATE:	1/29/2014 1:30:00 PM
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/30/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	01/30/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	01/30/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	01/30/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	01/30/2014	DLC
TPH-Diesel Range	NWTPH-DX	31	25	1	MG/KG	01/30/2014	EBS
TPH-Oil Range	NWTPH-DX	67	50	1	MG/KG	01/30/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	94.5	01/30/2014	DLC
TFT	EPA-8021	104	01/30/2014	DLC
C25	NWTPH-DX	99.7	01/30/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains lube oil.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	1/31/2014
CLIENT CONTACT:	Dean Malte	ALS JOB#:	EV14010167
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	-07
CLIENT SAMPLE ID	SP2-7	DATE RECEIVED:	1/30/2014
		COLLECTION DATE:	1/29/2014 1:30:00 PM
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/30/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	01/30/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	01/30/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	01/30/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	01/30/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	01/30/2014	EBS
TPH-Oil Range	NWTPH-DX	58	50	1	MG/KG	01/30/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	101	01/30/2014	DLC
TFT	EPA-8021	112	01/30/2014	DLC
C25	NWTPH-DX	69.8	01/30/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains lube oil.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	1/31/2014
CLIENT CONTACT:	Dean Malte	ALS SDG#:	EV14010167
CLIENT PROJECT:	Cornet Bay	WDOE ACCREDITATION:	C601

LABORATORY BLANK RESULTS

MB-012814S - Batch 7579 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/29/2014	DLC

MB-012814S - Batch 7579 - Soil by EPA-8021

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8021	U	0.030	1	MG/KG	01/29/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	01/29/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	01/29/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	01/29/2014	DLC

MB-013014S - Batch 7590 - Soil by NWTPH-DX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	01/30/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	01/30/2014	EBS

MB-012914S - Batch 7580 - Soil by EPA-8270 SIM

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Pyrene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP



CERTIFICATE OF ANALYSIS

CLIENT: Kennedy/Jenks Consultants DATE: 1/31/2014
32001 - 32nd Ave S., Suite 100 ALS SDG#: EV14010167
Federal Way, WA 98001 WDOE ACCREDITATION: C601
CLIENT CONTACT: Dean Malte
CLIENT PROJECT: Cornet Bay

LABORATORY BLANK RESULTS

MBLK-1302014 - Batch R92739 - Soil by EPA-8082

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
PCB-1016	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1260	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1268	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP

MBLK-1302014 - Batch R92740 - Soil by EPA-7471

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	U	0.020	1	MG/KG	01/30/2014	RAL

MB-013014S - Batch 7589 - Soil by EPA-6020

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-6020	U	0.20	1	MG/KG	01/30/2014	RAL
Barium	EPA-6020	U	0.10	1	MG/KG	01/30/2014	RAL
Cadmium	EPA-6020	U	0.10	1	MG/KG	01/30/2014	RAL
Chromium	EPA-6020	U	0.10	1	MG/KG	01/30/2014	RAL
Lead	EPA-6020	U	0.10	1	MG/KG	01/30/2014	RAL
Selenium	EPA-6020	U	1.0	1	MG/KG	01/30/2014	RAL
Silver	EPA-6020	U	0.10	1	MG/KG	01/30/2014	RAL



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	1/31/2014
CLIENT CONTACT:	Dean Malte	ALS SDG#:	EV14010167
CLIENT PROJECT:	Cornet Bay	WDOE ACCREDITATION:	C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 7579 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	74.4			01/29/2014	DLC
TPH-Volatile Range - BSD	NWTPH-GX	74.6	0		01/29/2014	DLC

ALS Test Batch ID: 7579 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	EPA-8021	88.5			01/29/2014	DLC
Benzene - BSD	EPA-8021	88.3	0		01/29/2014	DLC
Toluene - BS	EPA-8021	94.8			01/29/2014	DLC
Toluene - BSD	EPA-8021	94.7	0		01/29/2014	DLC
Ethylbenzene - BS	EPA-8021	91.7			01/29/2014	DLC
Ethylbenzene - BSD	EPA-8021	91.6	0		01/29/2014	DLC
Xylenes - BS	EPA-8021	91.8			01/29/2014	DLC
Xylenes - BSD	EPA-8021	91.6	0		01/29/2014	DLC

ALS Test Batch ID: 7590 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	102			01/31/2014	EBS
TPH-Diesel Range - BSD	NWTPH-DX	104	2		01/31/2014	EBS

ALS Test Batch ID: 7580 - Soil by EPA-8270 SIM

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Naphthalene - BS	EPA-8270 SIM	72.5			01/29/2014	LAP
Naphthalene - BSD	EPA-8270 SIM	72.5	0		01/30/2014	LAP
Acenaphthene - BS	EPA-8270 SIM	69.6			01/29/2014	LAP
Acenaphthene - BSD	EPA-8270 SIM	69.1	1		01/30/2014	LAP
Pyrene - BS	EPA-8270 SIM	76.7			01/29/2014	LAP
Pyrene - BSD	EPA-8270 SIM	76.9	0		01/30/2014	LAP
Benzo[G,H,I]Perylene - BS	EPA-8270 SIM	86.4			01/29/2014	LAP
Benzo[G,H,I]Perylene - BSD	EPA-8270 SIM	83.5	3		01/30/2014	LAP

ALS Test Batch ID: R92739 - Soil by EPA-8082

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
PCB-1016 - BS	EPA-8082	92.0			01/30/2014	LAP
PCB-1016 - BSD	EPA-8082	97.0	5		01/30/2014	LAP



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	1/31/2014
CLIENT CONTACT:	Dean Malte	ALS SDG#:	EV14010167
CLIENT PROJECT:	Cornet Bay	WDOE ACCREDITATION:	C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
PCB-1260 - BS	EPA-8082	97.0			01/30/2014	LAP
PCB-1260 - BSD	EPA-8082	101	4		01/30/2014	LAP

ALS Test Batch ID: R92740 - Soil by EPA-7471

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Mercury - BS	EPA-7471	94.0			01/30/2014	RAL
Mercury - BSD	EPA-7471	96.0	2		01/30/2014	RAL

ALS Test Batch ID: 7589 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Arsenic - BS	EPA-6020	95.8			01/30/2014	RAL
Arsenic - BSD	EPA-6020	96.4	1		01/30/2014	RAL
Barium - BS	EPA-6020	103			01/30/2014	RAL
Barium - BSD	EPA-6020	102	0		01/30/2014	RAL
Cadmium - BS	EPA-6020	99.9			01/30/2014	RAL
Cadmium - BSD	EPA-6020	99.4	0		01/30/2014	RAL
Chromium - BS	EPA-6020	103			01/30/2014	RAL
Chromium - BSD	EPA-6020	103	0		01/30/2014	RAL
Lead - BS	EPA-6020	101			01/30/2014	RAL
Lead - BSD	EPA-6020	101	0		01/30/2014	RAL
Selenium - BS	EPA-6020	93.5			01/30/2014	RAL
Selenium - BSD	EPA-6020	94.8	1		01/30/2014	RAL
Silver - BS	EPA-6020	105			01/30/2014	RAL
Silver - BSD	EPA-6020	106	1		01/30/2014	RAL

APPROVED BY

Laboratory Director



ALS Environmental
 8620 Holly Drive, Suite 100
 Everett, WA 98208
 Phone (425) 356-2600
 Fax (425) 356-2626
 http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV14010167

Date 1/29/14 Page 1 Of 1

ANALYSIS REQUESTED

OTHER (Specify)

MTBE by EPA-8021	BTX by EPA-8021	NWTPH-HCID	NWTPH-DX	NWTPH-GX	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM	PCB Pesticides by EPA 8081/8082	Metals-MTCA-5 RCRA-8	Metals Other (Specify)	TCLP-Metals VOA Semi-Vol Pest Herbs	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
<input type="checkbox"/>	X	X	X	X	<input type="checkbox"/>					X	X				2	
	X	X	X	X						X	X				2	
	X	X	X	X						X	X				2	
	X	X	X	X						X	X				2	
	X	X	X	X						X	X				2	
	X	X	X	X						X	X				2	
	X	X	X	X						X	X				2	

PROJECT ID: CORSET BAH

REPORT TO COMPANY: Kennedy Senks

PROJECT MANAGER: Kennedy Senks

ADDRESS: 32001 32nd Ave S., Ste 100
Federal Way, WA 98001

PHONE: 253 835 6400 FAX:

PO. #: E-MAIL: KS

INVOICE TO COMPANY: KS

ATTENTION:

ADDRESS:

SAMPLE I.D.	DATE	TIME	TYPE	LAB#
1. SPA-1	1/29/14	1330	S	1
2. SPA-2			S	2
3. SPA-3			S	3
4. SPA-4			S	4
5. SPA-5			S	5
6. SPA-6			S	6
7. SPA-7			S	7
8.				
9.				
10.				

SPECIAL INSTRUCTIONS

Kennedy Senks 1/29/14

SIGNATURES (Name, Company, Date, Time):
 Relinquished By: Jared Fishes
 Received By: Shawn Akhmal ALS 1/30/14 12:00

TURNAROUND REQUESTED in Business Days*
 OTHER: 24 hours
 Specify: 24 hours

Organic, Metals & Inorganic Analysis
 1 2 3 5 10 Standard

Fuels & Hydrocarbon Analysis
 1 2 3 5 Standard

* Turnaround request less than standard may incur Rush Charges



January 31, 2014

Mr. Dean Malte
Kennedy/Jenks Consultants
32001 - 32nd Ave S., Suite 100
Federal Way, WA 98001

Dear Mr. Malte,

On January 30th, 4 samples were received by our laboratory and assigned our laboratory project number EV14010168. The project was identified as your Cornet Bay. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	1/31/2014
CLIENT CONTACT:	Dean Malte	ALS JOB#:	EV14010168
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	-01
CLIENT SAMPLE ID	WSP1-1	DATE RECEIVED:	1/30/2014
		COLLECTION DATE:	1/29/2014 8:30:00 AM
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	76	3.0	1	MG/KG	01/30/2014	DLC
Benzene	EPA-8021	0.049	0.030	1	MG/KG	01/30/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	01/30/2014	DLC
Ethylbenzene	EPA-8021	0.28	0.050	1	MG/KG	01/30/2014	DLC
Xylenes	EPA-8021	1.2	0.20	1	MG/KG	01/30/2014	DLC
TPH-Diesel Range	NWTPH-DX	460	25	1	MG/KG	01/30/2014	EBS
TPH-Oil Range	NWTPH-DX	440	50	1	MG/KG	01/30/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	105	01/30/2014	DLC
TFT	EPA-8021	114	01/30/2014	DLC
C25	NWTPH-DX	91.6	01/30/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
 Chromatogram indicates that it is likely that sample contains highly weathered gasoline, weathered diesel and lube oil.
 Gasoline range product results biased high due to semivolatiles range product overlap.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	1/31/2014
CLIENT CONTACT:	Dean Malte	ALS JOB#:	EV14010168
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	-02
CLIENT SAMPLE ID	WSP2-1	DATE RECEIVED:	1/30/2014
		COLLECTION DATE:	1/29/2014 8:32:00 AM
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	41	3.0	1	MG/KG	01/30/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	01/30/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	01/30/2014	DLC
Ethylbenzene	EPA-8021	0.13	0.050	1	MG/KG	01/30/2014	DLC
Xylenes	EPA-8021	0.71	0.20	1	MG/KG	01/30/2014	DLC
TPH-Diesel Range	NWTPH-DX	100	25	1	MG/KG	01/30/2014	EBS
TPH-Oil Range	NWTPH-DX	190	50	1	MG/KG	01/30/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	108	01/30/2014	DLC
TFT	EPA-8021	115	01/30/2014	DLC
C25	NWTPH-DX	72.6	01/30/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
 Chromatogram indicates that it is likely that sample contains highly weathered gasoline, weathered diesel and lube oil.
 Gasoline range product results biased high due to semivolatile range product overlap.
 Diesel range product results biased high due to oil range product overlap.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	1/31/2014
CLIENT CONTACT:	Dean Malte	ALS JOB#:	EV14010168
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	-03
CLIENT SAMPLE ID	WSP1-2	DATE RECEIVED:	1/30/2014
		COLLECTION DATE:	1/29/2014 12:31:00 PM
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	4.2	3.0	1	MG/KG	01/30/2014	DLC
Benzene	EPA-8021	0.35	0.030	1	MG/KG	01/30/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	01/30/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	01/30/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	01/30/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	01/31/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	01/31/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	105	01/30/2014	DLC
TFT	EPA-8021	107	01/30/2014	DLC
C25	NWTPH-DX	107	01/31/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	1/31/2014
CLIENT CONTACT:	Dean Malte	ALS JOB#:	EV14010168
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	-04
CLIENT SAMPLE ID	WSP2-2	DATE RECEIVED:	1/30/2014
		COLLECTION DATE:	1/29/2014 12:34:00 PM
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	5.6	3.0	1	MG/KG	01/30/2014	DLC
Benzene	EPA-8021	0.079	0.030	1	MG/KG	01/30/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	01/30/2014	DLC
Ethylbenzene	EPA-8021	0.052	0.050	1	MG/KG	01/30/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	01/30/2014	DLC
TPH-Diesel Range	NWTPH-DX	130	25	1	MG/KG	01/30/2014	EBS
TPH-Oil Range	NWTPH-DX	250	50	1	MG/KG	01/30/2014	EBS
Naphthalene	EPA-8270 SIM	51	20	1	UG/KG	01/30/2014	LAP
2-Methylnaphthalene	EPA-8270 SIM	66	20	1	UG/KG	01/30/2014	LAP
1-Methylnaphthalene	EPA-8270 SIM	64	20	1	UG/KG	01/30/2014	LAP
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Phenanthrene	EPA-8270 SIM	61	20	1	UG/KG	01/30/2014	LAP
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Fluoranthene	EPA-8270 SIM	24	20	1	UG/KG	01/30/2014	LAP
Pyrene	EPA-8270 SIM	26	20	1	UG/KG	01/30/2014	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	01/30/2014	LAP
PCB-1016	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1260	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1268	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
Mercury	EPA-7471	0.055	0.020	1	MG/KG	01/30/2014	RAL
Arsenic	EPA-6020	5.2	1.0	5	MG/KG	01/30/2014	RAL
Barium	EPA-6020	50	0.50	5	MG/KG	01/30/2014	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	01/30/2014	RAL
Chromium	EPA-6020	34	0.50	5	MG/KG	01/30/2014	RAL

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	1/31/2014
CLIENT CONTACT:	Dean Malte	ALS JOB#:	EV14010168
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	-04
CLIENT SAMPLE ID	WSP2-2	DATE RECEIVED:	1/30/2014
		COLLECTION DATE:	1/29/2014 12:34:00 PM
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Lead	EPA-6020	5.2	0.50	5	MG/KG	01/30/2014	RAL
Selenium	EPA-6020	U	5.0	5	MG/KG	01/30/2014	RAL
Silver	EPA-6020	U	0.50	5	MG/KG	01/30/2014	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	96.9	01/30/2014	DLC
TFT	EPA-8021	102	01/30/2014	DLC
C25	NWTPH-DX	106	01/30/2014	EBS
Terphenyl-d14	EPA-8270 SIM	75.9	01/30/2014	LAP
TCMX	EPA-8082	74.0	01/30/2014	LAP
DCB	EPA-8082	80.0	01/30/2014	LAP

U - Analyte analyzed for but not detected at level above reporting limit.
 Chromatogram indicates that it is likely that sample contains highly weathered gasoline, weathered diesel and lube oil.
 Gasoline range product results biased high due to semivolatile range product overlap.
 Diesel range product results biased high due to oil range product overlap.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	1/31/2014
		ALS SDG#:	EV14010168
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Dean Malte		
CLIENT PROJECT:	Cornet Bay		

LABORATORY BLANK RESULTS

MBG-013014S - Batch 7591 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/30/2014	DLC

MB-013014S - Batch 7591 - Soil by EPA-8021

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8021	U	0.030	1	MG/KG	01/30/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	01/30/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	01/30/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	01/30/2014	DLC

MB-013014S - Batch 7590 - Soil by NWTPH-DX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	01/30/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	01/30/2014	EBS

MB-012914S - Batch 7580 - Soil by EPA-8270 SIM

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Pyrene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	01/29/2014	LAP



CERTIFICATE OF ANALYSIS

CLIENT: Kennedy/Jenks Consultants **DATE:** 1/31/2014
 32001 - 32nd Ave S., Suite 100 **ALS SDG#:** EV14010168
 Federal Way, WA 98001 **WDOE ACCREDITATION:** C601
CLIENT CONTACT: Dean Malte
CLIENT PROJECT: Cornet Bay

LABORATORY BLANK RESULTS

MBLK-1302014 - Batch R92739 - Soil by EPA-8082

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
PCB-1016	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1260	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP
PCB-1268	EPA-8082	U	0.10	1	MG/KG	01/30/2014	LAP

MBLK-1302014 - Batch R92740 - Soil by EPA-7471

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	U	0.020	1	MG/KG	01/30/2014	RAL

MB-013014S - Batch 7589 - Soil by EPA-6020

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-6020	U	0.20	1	MG/KG	01/30/2014	RAL
Barium	EPA-6020	U	0.10	1	MG/KG	01/30/2014	RAL
Cadmium	EPA-6020	U	0.10	1	MG/KG	01/30/2014	RAL
Chromium	EPA-6020	U	0.10	1	MG/KG	01/30/2014	RAL
Lead	EPA-6020	U	0.10	1	MG/KG	01/30/2014	RAL
Selenium	EPA-6020	U	1.0	1	MG/KG	01/30/2014	RAL
Silver	EPA-6020	U	0.10	1	MG/KG	01/30/2014	RAL



CERTIFICATE OF ANALYSIS

CLIENT: Kennedy/Jenks Consultants
32001 - 32nd Ave S., Suite 100
Federal Way, WA 98001

DATE: 1/31/2014
ALS SDG#: EV14010168
WDOE ACCREDITATION: C601

CLIENT CONTACT: Dean Malte
CLIENT PROJECT: Cornet Bay

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 7591 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	69.2			01/30/2014	DLC
TPH-Volatile Range - BSD	NWTPH-GX	72.2	4		01/30/2014	DLC

ALS Test Batch ID: 7591 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	EPA-8021	101			01/30/2014	DLC
Benzene - BSD	EPA-8021	101	1		01/30/2014	DLC
Toluene - BS	EPA-8021	105			01/30/2014	DLC
Toluene - BSD	EPA-8021	104	1		01/30/2014	DLC
Ethylbenzene - BS	EPA-8021	102			01/30/2014	DLC
Ethylbenzene - BSD	EPA-8021	101	1		01/30/2014	DLC
Xylenes - BS	EPA-8021	104			01/30/2014	DLC
Xylenes - BSD	EPA-8021	103	0		01/30/2014	DLC

ALS Test Batch ID: 7590 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	102			01/31/2014	EBS
TPH-Diesel Range - BSD	NWTPH-DX	104	2		01/31/2014	EBS

ALS Test Batch ID: 7580 - Soil by EPA-8270 SIM

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Naphthalene - BS	EPA-8270 SIM	72.5			01/29/2014	LAP
Naphthalene - BSD	EPA-8270 SIM	72.5	0		01/30/2014	LAP
Acenaphthene - BS	EPA-8270 SIM	69.6			01/29/2014	LAP
Acenaphthene - BSD	EPA-8270 SIM	69.1	1		01/30/2014	LAP
Pyrene - BS	EPA-8270 SIM	76.7			01/29/2014	LAP
Pyrene - BSD	EPA-8270 SIM	76.9	0		01/30/2014	LAP
Benzo[G,H,I]Perylene - BS	EPA-8270 SIM	86.4			01/29/2014	LAP
Benzo[G,H,I]Perylene - BSD	EPA-8270 SIM	83.5	3		01/30/2014	LAP

ALS Test Batch ID: R92739 - Soil by EPA-8082

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
PCB-1016 - BS	EPA-8082	92.0			01/30/2014	LAP
PCB-1016 - BSD	EPA-8082	97.0	5		01/30/2014	LAP



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	1/31/2014
CLIENT CONTACT:	Dean Malte	ALS SDG#:	EV14010168
CLIENT PROJECT:	Cornet Bay	WDOE ACCREDITATION:	C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
PCB-1260 - BS	EPA-8082	97.0			01/30/2014	LAP
PCB-1260 - BSD	EPA-8082	101	4		01/30/2014	LAP

ALS Test Batch ID: R92740 - Soil by EPA-7471

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Mercury - BS	EPA-7471	94.0			01/30/2014	RAL
Mercury - BSD	EPA-7471	96.0	2		01/30/2014	RAL

ALS Test Batch ID: 7589 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Arsenic - BS	EPA-6020	95.8			01/30/2014	RAL
Arsenic - BSD	EPA-6020	96.4	1		01/30/2014	RAL
Barium - BS	EPA-6020	103			01/30/2014	RAL
Barium - BSD	EPA-6020	102	0		01/30/2014	RAL
Cadmium - BS	EPA-6020	99.9			01/30/2014	RAL
Cadmium - BSD	EPA-6020	99.4	0		01/30/2014	RAL
Chromium - BS	EPA-6020	103			01/30/2014	RAL
Chromium - BSD	EPA-6020	103	0		01/30/2014	RAL
Lead - BS	EPA-6020	101			01/30/2014	RAL
Lead - BSD	EPA-6020	101	0		01/30/2014	RAL
Selenium - BS	EPA-6020	93.5			01/30/2014	RAL
Selenium - BSD	EPA-6020	94.8	1		01/30/2014	RAL
Silver - BS	EPA-6020	105			01/30/2014	RAL
Silver - BSD	EPA-6020	106	1		01/30/2014	RAL

APPROVED BY

Laboratory Director



ALS Environmental
 8620 Holly Drive, Suite 100
 Everett, WA 98208
 Phone (425) 356-2600
 Fax (425) 356-2626
 http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV14010168

Date 1/29/14 Page 1 Of 1

PROJECT ID: CORNET BAH
 REPORT TO COMPANY: Kennedy/Senks
 PROJECT MANAGER:
 ADDRESS: 32001 32nd Ave S., Ste 100
Federal Way, WA 98001
 PHONE: 253 835 6400 FAX:
 P.O. #: KJ E-MAIL:
 INVOICE TO COMPANY:
 ATTENTION:
 ADDRESS:

ANALYSIS REQUESTED		OTHER (Specify)	
NWTPH-HCID			
NWTPH-DX	X X X		
NWTPH-GX	X X X		
BTEX by EPA-8021	X X X		
MTR by EPA-8021			
Halogenated Volatiles by EPA 8260			
Volatile Organic Compounds by EPA 8260			
EDB / EDC by EPA 8260 SIM (water)			
EDB / EDC by EPA 8260 (soil)			
Semivolatile Organic Compounds by EPA 8270			
Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM			
PCB Pesticides by EPA 8081/8082	X X X		
Metals-MTCA-5 RCRA-8			
Metals Other (Specify)			
TCLP-Metals VOA Semi-Vol Pest Herbs			
NUMBER OF CONTAINERS			
RECEIVED IN GOOD CONDITION?			

SAMPLE I.D.	DATE	TIME	TYPE	LAB#
1. WSP1-1	1/29/14	0830	SOIL	1
2. WSP2-1	1/29/14	0832	SOIL	2
3. WSP1-2	1/29/14	1021	SOIL	3
4. WSP2-2	1/29/14	1034	SOIL	4
5.				
6.				
7.				
8.				
9.				
10.				

SPECIAL INSTRUCTIONS Area 01 WASTE CHARACTERIZATION "BATTERY" STOCKPILE
Area 02 WASTE CHARACTERIZATION "OIL-USED OIL STORAGE PAD" STOCKPILE

SIGNATURES (Name, Company, Date, Time):
 1. Relinquished By: JAROD FISHER 1/30/14 12:00
Shawn Robinson AS
 Received By: Shawn Robinson AS 1/30/14 12:00

2. Relinquished By:
 Received By:

TURNAROUND REQUESTED in Business Days*
 OTHER: 24 hours
 Specify: 24 hours

Organic, Metals & Inorganic Analysis
 SAME DAY
 2
 3
 5
 10
 Standard
 Fuels & Hydrocarbon Analysis
 3
 SAME DAY

* Turnaround request less than standard may incur Rush Charges



February 3, 2014

Mr. Dean Malte
Kennedy/Jenks Consultants
32001 - 32nd Ave S., Suite 100
Federal Way, WA 98001

Dear Mr. Malte,

On January 28th, 8 samples were received by our laboratory and assigned our laboratory project number EV14010144. The project was identified as your Cornet Bay. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director



CERTIFICATE OF ANALYSIS

CLIENT: Kennedy/Jenks Consultants
 32001 - 32nd Ave S., Suite 100
 Federal Way, WA 98001

DATE: 2/3/2014
 ALS JOB#: EV14010144
 ALS SAMPLE#: -01
 DATE RECEIVED: 1/28/2014
 COLLECTION DATE: 1/27/2014 4:30:00 PM
 WDOE ACCREDITATION: C601

CLIENT CONTACT: Dean Malte
 CLIENT PROJECT: Cornet Bay
 CLIENT SAMPLE ID: A01-01-6

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/29/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	01/29/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	01/29/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	01/29/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	01/29/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	01/29/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	01/29/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.5	01/29/2014	DLC
TFT	EPA-8021	97.8	01/29/2014	DLC
C25	NWTPH-DX	74.2	01/29/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	2/3/2014
CLIENT CONTACT:	Dean Malte	ALS JOB#:	EV14010144
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	-02
CLIENT SAMPLE ID	A01-02-10	DATE RECEIVED:	1/28/2014
		COLLECTION DATE:	1/27/2014 4:40:00 PM
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/29/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	01/29/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	01/29/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	01/29/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	01/29/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	01/29/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	01/29/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	93.8	01/29/2014	DLC
TFT	EPA-8021	102	01/29/2014	DLC
C25	NWTPH-DX	61.7	01/29/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	2/3/2014
CLIENT CONTACT:	Dean Malte	ALS JOB#:	EV14010144
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	-03
CLIENT SAMPLE ID	A01-03-14	DATE RECEIVED:	1/28/2014
		COLLECTION DATE:	1/27/2014 5:50:00 PM
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/29/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	01/29/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	01/29/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	01/29/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	01/29/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	01/29/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	01/29/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	105	01/29/2014	DLC
TFT	EPA-8021	116	01/29/2014	DLC
C25	NWTPH-DX	66.8	01/29/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	2/3/2014
CLIENT CONTACT:	Dean Malte	ALS JOB#:	EV14010144
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	-04
CLIENT SAMPLE ID	A01-04-6	DATE RECEIVED:	1/28/2014
		COLLECTION DATE:	1/27/2014 5:55:00 PM
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/29/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	01/29/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	01/29/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	01/29/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	01/29/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	01/29/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	01/29/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	93.6	01/29/2014	DLC
TFT	EPA-8021	106	01/29/2014	DLC
C25	NWTPH-DX	72.0	01/29/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	2/3/2014
CLIENT CONTACT:	Dean Malte	ALS JOB#:	EV14010144
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	-05
CLIENT SAMPLE ID	A01-05-7	DATE RECEIVED:	1/28/2014
		COLLECTION DATE:	1/27/2014 6:05:00 PM
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/29/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	01/29/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	01/29/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	01/29/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	01/29/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	01/29/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	01/29/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	99.3	01/29/2014	DLC
TFT	EPA-8021	111	01/29/2014	DLC
C25	NWTPH-DX	66.5	01/29/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	2/3/2014
CLIENT CONTACT:	Dean Malte	ALS JOB#:	EV14010144
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	-06
CLIENT SAMPLE ID	A01-06-12	DATE RECEIVED:	1/28/2014
		COLLECTION DATE:	1/27/2014 6:20:00 PM
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/29/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	01/29/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	01/29/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	01/29/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	01/29/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	01/29/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	01/29/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	112	01/29/2014	DLC
TFT	EPA-8021	125	01/29/2014	DLC
C25	NWTPH-DX	73.5	01/29/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	2/3/2014
CLIENT CONTACT:	Dean Malte	ALS JOB#:	EV14010144
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	-07
CLIENT SAMPLE ID	A01-07-7	DATE RECEIVED:	1/28/2014
		COLLECTION DATE:	1/27/2014 6:35:00 PM
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/29/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	01/29/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	01/29/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	01/29/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	01/29/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	01/29/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	01/29/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	89.9	01/29/2014	DLC
TFT	EPA-8021	101	01/29/2014	DLC
C25	NWTPH-DX	61.0	01/29/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	2/3/2014
CLIENT CONTACT:	Dean Malte	ALS JOB#:	EV14010144
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	-08
CLIENT SAMPLE ID	A01-08-6	DATE RECEIVED:	1/28/2014
		COLLECTION DATE:	1/27/2014 7:10:00 PM
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/29/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	01/29/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	01/29/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	01/29/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	01/29/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	01/29/2014	EBS
TPH-Oil Range	NWTPH-DX	60	50	1	MG/KG	01/29/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	83.1	01/29/2014	DLC
TFT	EPA-8021	93.9	01/29/2014	DLC
C25	NWTPH-DX	59.7	01/29/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains lube oil.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	2/3/2014
CLIENT CONTACT:	Dean Malte	ALS SDG#:	EV14010144
CLIENT PROJECT:	Cornet Bay	WDOE ACCREDITATION:	C601

LABORATORY BLANK RESULTS

MB-012814S - Batch 7579 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/29/2014	DLC

MB-012814S - Batch 7579 - Soil by EPA-8021

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8021	U	0.030	1	MG/KG	01/29/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	01/29/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	01/29/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	01/29/2014	DLC

MB-012114S - Batch 7563 - Soil by NWTPH-DX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	01/22/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	01/22/2014	EBS



CERTIFICATE OF ANALYSIS

CLIENT: Kennedy/Jenks Consultants
32001 - 32nd Ave S., Suite 100
Federal Way, WA 98001

DATE: 2/3/2014
ALS SDG#: EV14010144
WDOE ACCREDITATION: C601

CLIENT CONTACT: Dean Malte
CLIENT PROJECT: Cornet Bay

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 7579 - Soil by NWTPH-GX

Table with 7 columns: SPIKED COMPOUND, METHOD, %REC, RPD, QUAL, ANALYSIS DATE, ANALYSIS BY. Rows include TPH-Volatile Range - BS and TPH-Volatile Range - BSD.

ALS Test Batch ID: 7579 - Soil by EPA-8021

Table with 7 columns: SPIKED COMPOUND, METHOD, %REC, RPD, QUAL, ANALYSIS DATE, ANALYSIS BY. Rows include Benzene, Toluene, Ethylbenzene, and Xylenes in BS and BSD forms.

ALS Test Batch ID: 7563 - Soil by NWTPH-DX

Table with 7 columns: SPIKED COMPOUND, METHOD, %REC, RPD, QUAL, ANALYSIS DATE, ANALYSIS BY. Rows include TPH-Diesel Range - BS and TPH-Diesel Range - BSD.

APPROVED BY

Laboratory Director



ALS Environmental
 8620 Holly Drive, Suite 100
 Everett, WA 98208
 Phone (425) 356-2600
 Fax (425) 356-2626
 http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV14010144

Date 1/29/14 Page 1 Of 1

PROJECT INFORMATION				ANALYSIS REQUESTED										OTHER (Specify)						
PROJECT ID:	REPORT TO COMPANY:	PROJECT MANAGER:	ADDRESS:	MTBE by EPA-8021	BTEX by EPA-8021	NWTPH-HCID	NWTPH-DX	NWTPH-GX	Volatile Organic Compounds by EPA 8260	Halogenerated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260 (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM	PCB Pesticides by EPA 8081/8082	Metals-MTCA-5 RCRA-8 Pn Pol TAL	Metals Other (Specify)	TCLP-Metals VOA Semi-Vol Pest Herbs	RECEIVED IN GOOD CONDITION?	
NO. #:	INVOICE TO COMPANY:	ATTENTION:	ADDRESS:																	
1.	A01-01-6	1/29/14	1630	Soil	1	X	X	X												2
2.	A01-02-10		1640		2	X	X	X												2
3.	A01-03-14		1750		3	X	X	X												2
4.	A01-04-6		1755		4	X	X	X												2
5.	A01-05-9		1805		5	X	X	X												2
6.	A01-06-12		1820		6	X	X	X												2
7.	A01-07-9		1835		7	X	X	X												2
8.	A01-08-6		1910	↓	8	X	X	X												2
9.																				
10.																				

SPECIAL INSTRUCTIONS: Area 01 Samples

SIGNATURES (Name, Company, Date, Time):
 1. Relinquished By: Dean M, KSC, 1/28/14
 Received By: AS 1/28/14 12:00
 2. Relinquished By: _____
 Received By: _____

* Turnaround request less than standard may incur Rush Charges



March 4, 2014

Mr. Ty Schreiner
Kennedy/Jenks Consultants
32001 - 32nd Ave S., Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner,

On February 21st, 6 samples were received by our laboratory and assigned our laboratory project number EV14020120. The project was identified as your Cornet Bay. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director



CERTIFICATE OF ANALYSIS

CLIENT: Kennedy/Jenks Consultants
 32001 - 32nd Ave S., Suite 100
 Federal Way, WA 98001

DATE: 3/4/2014
 ALS JOB#: EV14020120
 ALS SAMPLE#: EV14020120-01
 DATE RECEIVED: 02/21/2014
 COLLECTION DATE: 2/17/2014 4:00:00 PM
 WDOE ACCREDITATION: C601

CLIENT CONTACT: Ty Schreiner
 CLIENT PROJECT: Cornet Bay
 CLIENT SAMPLE ID: FB-021714

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	02/25/2014	DLC
Benzene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	02/25/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	130	1	UG/L	02/24/2014	EBS
TPH-Oil Range	NWTPH-DX	U	250	1	UG/L	02/24/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	98.2	02/25/2014	DLC
TFT	EPA-8021	89.2	02/25/2014	DLC
C25	NWTPH-DX	85.5	02/24/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/4/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14020120
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14020120-02
CLIENT SAMPLE ID	RB-3	DATE RECEIVED:	02/21/2014
		COLLECTION DATE:	2/19/2014 1:30:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	02/25/2014	DLC
Benzene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	02/25/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	130	1	UG/L	02/24/2014	EBS
TPH-Oil Range	NWTPH-DX	U	250	1	UG/L	02/24/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	107	02/25/2014	DLC
TFT	EPA-8021	102	02/25/2014	DLC
C25	NWTPH-DX	107	02/24/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/4/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14020120
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14020120-03
CLIENT SAMPLE ID	RB-4	DATE RECEIVED:	02/21/2014
		COLLECTION DATE:	2/20/2014 2:00:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	02/25/2014	DLC
Benzene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	02/25/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	130	1	UG/L	02/25/2014	EBS
TPH-Oil Range	NWTPH-DX	370	250	1	UG/L	02/25/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	103	02/25/2014	DLC
TFT	EPA-8021	101	02/25/2014	DLC
C25	NWTPH-DX	79.7	02/25/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains an unidentified oil range product.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/4/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14020120
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14020120-04
CLIENT SAMPLE ID:	A3-15-7 Split	DATE RECEIVED:	02/21/2014
		COLLECTION DATE:	2/19/2014 8:35:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	26	3.0	1	MG/KG	02/25/2014	DLC
Benzene	EPA-8021	0.54	0.030	1	MG/KG	02/25/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	02/25/2014	DLC
Ethylbenzene	EPA-8021	0.38	0.050	1	MG/KG	02/25/2014	DLC
Xylenes	EPA-8021	0.98	0.20	1	MG/KG	02/25/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	02/24/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	02/24/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	104	02/25/2014	DLC
TFT	EPA-8021	119	02/25/2014	DLC
C25	NWTPH-DX	96.1	02/24/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/4/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14020120
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14020120-05
CLIENT SAMPLE ID	A02-13-12 Split	DATE RECEIVED:	02/21/2014
		COLLECTION DATE:	2/20/2014 3:15:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	5.9	3.0	1	MG/KG	02/25/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	02/25/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	02/25/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	02/25/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	02/25/2014	DLC
TPH-Diesel Range	NWTPH-DX	120	25	1	MG/KG	02/24/2014	EBS
TPH-Oil Range	NWTPH-DX	61	50	1	MG/KG	02/24/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	75.6	02/25/2014	DLC
TFT	EPA-8021	76.0	02/25/2014	DLC
C25	NWTPH-DX	88.2	02/24/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline, an unidentified diesel range product and an unidentified oil range product.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/4/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14020120
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14020120-06
CLIENT SAMPLE ID	SP2-21	DATE RECEIVED:	02/21/2014
		COLLECTION DATE:	2/21/2014 11:40:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	02/24/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	02/24/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	02/24/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	02/24/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	02/24/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	02/24/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	02/24/2014	EBS
Naphthalene	EPA-8270 SIM	93	20	1	UG/KG	02/24/2014	LAP
2-Methylnaphthalene	EPA-8270 SIM	23	20	1	UG/KG	02/24/2014	LAP
1-Methylnaphthalene	EPA-8270 SIM	35	20	1	UG/KG	02/24/2014	LAP
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Acenaphthene	EPA-8270 SIM	110	20	1	UG/KG	02/24/2014	LAP
Fluorene	EPA-8270 SIM	310	20	1	UG/KG	02/24/2014	LAP
Phenanthrene	EPA-8270 SIM	270	20	1	UG/KG	02/24/2014	LAP
Anthracene	EPA-8270 SIM	40	20	1	UG/KG	02/24/2014	LAP
Fluoranthene	EPA-8270 SIM	200	20	1	UG/KG	02/24/2014	LAP
Pyrene	EPA-8270 SIM	140	20	1	UG/KG	02/24/2014	LAP
Benzo[A]Anthracene	EPA-8270 SIM	42	20	1	UG/KG	02/24/2014	LAP
Chrysene	EPA-8270 SIM	61	20	1	UG/KG	02/24/2014	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	21	20	1	UG/KG	02/24/2014	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	24	20	1	UG/KG	02/24/2014	LAP
Benzo[A]Pyrene	EPA-8270 SIM	21	20	1	UG/KG	02/24/2014	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	93.7	02/24/2014	DLC
TFT	EPA-8021	92.5	02/24/2014	DLC
C25	NWTPH-DX	93.4	02/24/2014	EBS
Terphenyl-d14	EPA-8270 SIM	83.3	02/24/2014	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/4/2014
		ALS SDG#:	EV14020120
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Ty Schreiner		
CLIENT PROJECT:	Cornet Bay		

LABORATORY BLANK RESULTS

MBG-021914S - Batch 7643 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	02/19/2014	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-021914W2 - Batch 7651 - Water by NWTPH-GX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	02/19/2014	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-021914S - Batch 7643 - Soil by EPA-8021

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8021	U	0.030	1	MG/KG	02/19/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	02/19/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	02/19/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	02/19/2014	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-021914W2 - Batch 7651 - Water by EPA-8021

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8021	U	1.0	1	UG/L	02/19/2014	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	02/19/2014	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	02/19/2014	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	02/19/2014	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-021914S - Batch 7646 - Soil by NWTPH-DX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	02/19/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	02/19/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

MB-021914W - Batch 7649 - Water by NWTPH-DX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	130	1	UG/L	02/19/2014	EBS

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE: 3/4/2014	ALS SDG#: EV14020120
CLIENT CONTACT:	Ty Schreiner	WDOE ACCREDITATION:	C601
CLIENT PROJECT:	Cornet Bay		

LABORATORY BLANK RESULTS

MB-021914W - Batch 7649 - Water by NWTPH-DX

TPH-Oil Range	NWTPH-DX	U	250	1	UG/L	02/19/2014	EBS
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U - Analyte analyzed for but not detected at level above reporting limit.

MB-022414S - Batch 7647 - Soil by EPA-8270 SIM

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Pyrene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/4/2014
CLIENT CONTACT:	Ty Schreiner	ALS SDG#:	EV14020120
CLIENT PROJECT:	Cornet Bay	WDOE ACCREDITATION:	C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 7643 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	72.2			02/19/2014	DLC
TPH-Volatile Range - BSD	NWTPH-GX	73.5	2		02/20/2014	DLC

ALS Test Batch ID: 7651 - Water by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	66.8			02/19/2014	DLC
TPH-Volatile Range - BSD	NWTPH-GX	70.7	6		02/19/2014	DLC

ALS Test Batch ID: 7643 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	EPA-8021	92.4			02/19/2014	DLC
Benzene - BSD	EPA-8021	91.6	1		02/19/2014	DLC
Toluene - BS	EPA-8021	95.9			02/19/2014	DLC
Toluene - BSD	EPA-8021	95.7	0		02/19/2014	DLC
Ethylbenzene - BS	EPA-8021	93.9			02/19/2014	DLC
Ethylbenzene - BSD	EPA-8021	93.5	0		02/19/2014	DLC
Xylenes - BS	EPA-8021	96.3			02/19/2014	DLC
Xylenes - BSD	EPA-8021	95.8	1		02/19/2014	DLC

ALS Test Batch ID: 7651 - Water by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	EPA-8021	102			02/19/2014	DLC
Benzene - BSD	EPA-8021	104	2		02/19/2014	DLC
Toluene - BS	EPA-8021	101			02/19/2014	DLC
Toluene - BSD	EPA-8021	103	2		02/19/2014	DLC
Ethylbenzene - BS	EPA-8021	101			02/19/2014	DLC
Ethylbenzene - BSD	EPA-8021	103	2		02/19/2014	DLC
Xylenes - BS	EPA-8021	101			02/19/2014	DLC
Xylenes - BSD	EPA-8021	103	2		02/19/2014	DLC

ALS Test Batch ID: 7646 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	102			02/19/2014	EBS
TPH-Diesel Range - BSD	NWTPH-DX	96.6	5		02/19/2014	EBS



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/4/2014
CLIENT CONTACT:	Ty Schreiner	ALS SDG#:	EV14020120
CLIENT PROJECT:	Cornet Bay	WDOE ACCREDITATION:	C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 7649 - Water by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	83.2			02/19/2014	EBS
TPH-Diesel Range - BSD	NWTPH-DX	87.4	5		02/19/2014	EBS

ALS Test Batch ID: 7647 - Soil by EPA-8270 SIM

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Naphthalene - BS	EPA-8270 SIM	117			02/24/2014	LAP
Naphthalene - BSD	EPA-8270 SIM	106	10		02/24/2014	LAP
Acenaphthene - BS	EPA-8270 SIM	145			02/24/2014	LAP
Acenaphthene - BSD	EPA-8270 SIM	152	5	SQ3	02/24/2014	LAP
Pyrene - BS	EPA-8270 SIM	121			02/24/2014	LAP
Pyrene - BSD	EPA-8270 SIM	117	4		02/24/2014	LAP
Benzo[G,H,I]Perylene - BS	EPA-8270 SIM	123			02/24/2014	LAP
Benzo[G,H,I]Perylene - BSD	EPA-8270 SIM	113	8		02/24/2014	LAP

SQ3 - Spike outside of control limits due to sporadic marginal failure. All other spikes in extraction fraction within control limits. No corrective action taken.

APPROVED BY

Laboratory Director



ALS Environmental
 8620 Holly Drive, Suite 100
 Everett, WA 98208
 Phone (425) 356-2600
 Fax (425) 356-2626
<http://www.alsglobal.com>

Chain Of Custody/ Laboratory Analysis Request

Date _____ Page _____ Of _____

PROJECT INFORMATION				ANALYSIS REQUESTED												OTHER (Specify)					
PROJECT ID:	REPORT TO COMPANY:	PROJECT MANAGER:	ADDRESS:	MTBE by EPA-8021	BTEX by EPA-8021	NMTPH-GX	NMTPH-DX	NMTPH-HCID	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM	PCB Pesticides by EPA 8081/8082	Metals-MTCA-5 RCRA-8 Pii Poi TAL	Metals Other (Specify)	TCLP-Metals VOA Semi-Vol Pest Herbs	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?	
1. FB-021714	KENNEDY STEEL	71 CENTRAL	2800 22 nd AVE S. Ste 100	X	X	X	X	X													
2. RB-3			Federal Way, WA 98001	X	X	X	X	X													
3. RB-4			PHONE: 252 255 6100 FAX:	X	X	X	X	X													
4. A3-15-7 SPIT			P.O. #: 12910100 E-MAIL: JACOD.FISH@VON.COM	X	X	X	X	X													
5. A02-13-12 SPIT			INVOICE TO COMPANY: SAME	X	X	X	X	X													
6. SP2-21			ATTENTION:	X	X	X	X	X													
7.			ADDRESS:																		
8.																					
9.																					
10.																					

CLIENT COPY

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

- Relinquished By: JACOD FISHER, VLS, 2/21/10, 1218
- Received By: _____
- Relinquished By: _____
- Received By: _____

TURNAROUND REQUESTED IN BUSINESS DAYS*
 OTHER: _____

Organic, Metals & Inorganic Analysis
 10 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis
 5 3 1 SAME DAY

Specify: _____

* Turnaround request less than standard may incur Rush Charges



February 26, 2014

Mr. Ty Schreiner
Kennedy/Jenks Consultants
32001 - 32nd Ave S., Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner,

On February 21st, 6 samples were received by our laboratory and assigned our laboratory project number EV14020120. The project was identified as your Cornet Bay. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director



CERTIFICATE OF ANALYSIS

CLIENT: Kennedy/Jenks Consultants
 32001 - 32nd Ave S., Suite 100
 Federal Way, WA 98001

DATE: 2/26/2014
 ALS JOB#: EV14020120
 ALS SAMPLE#: EV14020120-01
 DATE RECEIVED: 02/21/2014
 COLLECTION DATE: 2/17/2014 4:00:00 PM
 WDOE ACCREDITATION: C601

CLIENT CONTACT: Ty Schreiner
 CLIENT PROJECT: Cornet Bay
 CLIENT SAMPLE ID: FB-021714

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	02/25/2014	DLC
Benzene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	02/25/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	130	1	UG/L	02/24/2014	EBS
TPH-Oil Range	NWTPH-DX	U	250	1	UG/L	02/24/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	98.2	02/25/2014	DLC
TFT	EPA-8021	89.2	02/25/2014	DLC
C25	NWTPH-DX	85.5	02/24/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	2/26/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14020120
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14020120-02
CLIENT SAMPLE ID	RB-3	DATE RECEIVED:	02/21/2014
		COLLECTION DATE:	2/19/2014 1:30:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	02/25/2014	DLC
Benzene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	02/25/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	130	1	UG/L	02/24/2014	EBS
TPH-Oil Range	NWTPH-DX	U	250	1	UG/L	02/24/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	107	02/25/2014	DLC
TFT	EPA-8021	102	02/25/2014	DLC
C25	NWTPH-DX	107	02/24/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	2/26/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14020120
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14020120-03
CLIENT SAMPLE ID:	RB-4	DATE RECEIVED:	02/21/2014
		COLLECTION DATE:	2/20/2014 2:00:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	02/25/2014	DLC
Benzene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	02/25/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	130	1	UG/L	02/25/2014	EBS
TPH-Oil Range	NWTPH-DX	370	250	1	UG/L	02/25/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	103	02/25/2014	DLC
TFT	EPA-8021	101	02/25/2014	DLC
C25	NWTPH-DX	79.7	02/25/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains an unidentified oil range product.

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	2/26/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14020120
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14020120-04
CLIENT SAMPLE ID	A3-15-7 Split	DATE RECEIVED:	02/21/2014
		COLLECTION DATE:	2/19/2014 8:35:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	26	3.0	1	MG/KG	02/25/2014	DLC
Benzene	EPA-8021	0.54	0.030	1	MG/KG	02/25/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	02/25/2014	DLC
Ethylbenzene	EPA-8021	0.38	0.050	1	MG/KG	02/25/2014	DLC
Xylenes	EPA-8021	0.98	0.20	1	MG/KG	02/25/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	02/24/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	02/24/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	104	02/25/2014	DLC
TFT	EPA-8021	119	02/25/2014	DLC
C25	NWTPH-DX	96.1	02/24/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	2/26/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14020120
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14020120-05
CLIENT SAMPLE ID	A02-13-12 Split	DATE RECEIVED:	02/21/2014
		COLLECTION DATE:	2/20/2014 3:15:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	5.9	3.0	1	MG/KG	02/25/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	02/25/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	02/25/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	02/25/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	02/25/2014	DLC
TPH-Diesel Range	NWTPH-DX	120	25	1	MG/KG	02/24/2014	EBS
TPH-Oil Range	NWTPH-DX	61	50	1	MG/KG	02/24/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	75.6	02/25/2014	DLC
TFT	EPA-8021	76.0	02/25/2014	DLC
C25	NWTPH-DX	88.2	02/24/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline, an unidentified diesel range product and an unidentified oil range product.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	2/26/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14020120
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14020120-06
CLIENT SAMPLE ID	SP2-21	DATE RECEIVED:	02/21/2014
		COLLECTION DATE:	2/21/2014 11:40:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	02/24/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	02/24/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	02/24/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	02/24/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	02/24/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	02/24/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	02/24/2014	EBS
Naphthalene	EPA-8270 SIM	93	20	1	UG/KG	02/24/2014	LAP
2-Methylnaphthalene	EPA-8270 SIM	23	20	1	UG/KG	02/24/2014	LAP
1-Methylnaphthalene	EPA-8270 SIM	35	20	1	UG/KG	02/24/2014	LAP
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Acenaphthene	EPA-8270 SIM	110	20	1	UG/KG	02/24/2014	LAP
Fluorene	EPA-8270 SIM	310	20	1	UG/KG	02/24/2014	LAP
Phenanthrene	EPA-8270 SIM	270	20	1	UG/KG	02/24/2014	LAP
Anthracene	EPA-8270 SIM	40	20	1	UG/KG	02/24/2014	LAP
Fluoranthene	EPA-8270 SIM	200	20	1	UG/KG	02/24/2014	LAP
Pyrene	EPA-8270 SIM	140	20	1	UG/KG	02/24/2014	LAP
Benzo[A]Anthracene	EPA-8270 SIM	42	20	1	UG/KG	02/24/2014	LAP
Chrysene	EPA-8270 SIM	61	20	1	UG/KG	02/24/2014	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	21	20	1	UG/KG	02/24/2014	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	24	20	1	UG/KG	02/24/2014	LAP
Benzo[A]Pyrene	EPA-8270 SIM	21	20	1	UG/KG	02/24/2014	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	93.7	02/24/2014	DLC
TFT	EPA-8021	92.5	02/24/2014	DLC
C25	NWTPH-DX	93.4	02/24/2014	EBS
Terphenyl-d14	EPA-8270 SIM	83.3	02/24/2014	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: Kennedy/Jenks Consultants DATE: 2/26/2014
 32001 - 32nd Ave S., Suite 100 ALS SDG#: EV14020120
 Federal Way, WA 98001 WDOE ACCREDITATION: C601

CLIENT CONTACT: Ty Schreiner
 CLIENT PROJECT: Cornet Bay

LABORATORY BLANK RESULTS

MBG-021914S - Batch 7643 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	02/19/2014	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-021914W2 - Batch 7651 - Water by NWTPH-GX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	02/19/2014	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-021914S - Batch 7643 - Soil by EPA-8021

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8021	U	0.030	1	MG/KG	02/19/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	02/19/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	02/19/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	02/19/2014	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-021914W2 - Batch 7651 - Water by EPA-8021

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8021	U	1.0	1	UG/L	02/19/2014	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	02/19/2014	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	02/19/2014	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	02/19/2014	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-021914S - Batch 7646 - Soil by NWTPH-DX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	02/19/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	02/19/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

MB-022414S - Batch 7647 - Soil by EPA-8270 SIM

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP



CERTIFICATE OF ANALYSIS

CLIENT: Kennedy/Jenks Consultants
 32001 - 32nd Ave S., Suite 100
 Federal Way, WA 98001

DATE: 2/26/2014
 ALS SDG#: EV14020120
 WDOE ACCREDITATION: C601

CLIENT CONTACT: Ty Schreiner
 CLIENT PROJECT: Cornet Bay

LABORATORY BLANK RESULTS

MB-022414S - Batch 7647 - Soil by EPA-8270 SIM

2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Pyrene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	2/26/2014
CLIENT CONTACT:	Ty Schreiner	ALS SDG#:	EV14020120
CLIENT PROJECT:	Cornet Bay	WDOE ACCREDITATION:	C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 7643 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	72.2			02/19/2014	DLC
TPH-Volatile Range - BSD	NWTPH-GX	73.5	2		02/20/2014	DLC

ALS Test Batch ID: 7651 - Water by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	66.8			02/19/2014	DLC
TPH-Volatile Range - BSD	NWTPH-GX	70.7	6		02/19/2014	DLC

ALS Test Batch ID: 7643 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	EPA-8021	92.4			02/19/2014	DLC
Benzene - BSD	EPA-8021	91.6	1		02/19/2014	DLC
Toluene - BS	EPA-8021	95.9			02/19/2014	DLC
Toluene - BSD	EPA-8021	95.7	0		02/19/2014	DLC
Ethylbenzene - BS	EPA-8021	93.9			02/19/2014	DLC
Ethylbenzene - BSD	EPA-8021	93.5	0		02/19/2014	DLC
Xylenes - BS	EPA-8021	96.3			02/19/2014	DLC
Xylenes - BSD	EPA-8021	95.8	1		02/19/2014	DLC

ALS Test Batch ID: 7651 - Water by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	EPA-8021	102			02/19/2014	DLC
Benzene - BSD	EPA-8021	104	2		02/19/2014	DLC
Toluene - BS	EPA-8021	101			02/19/2014	DLC
Toluene - BSD	EPA-8021	103	2		02/19/2014	DLC
Ethylbenzene - BS	EPA-8021	101			02/19/2014	DLC
Ethylbenzene - BSD	EPA-8021	103	2		02/19/2014	DLC
Xylenes - BS	EPA-8021	101			02/19/2014	DLC
Xylenes - BSD	EPA-8021	103	2		02/19/2014	DLC

ALS Test Batch ID: 7646 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	102			02/19/2014	EBS
TPH-Diesel Range - BSD	NWTPH-DX	96.6	5		02/19/2014	EBS



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	2/26/2014
CLIENT CONTACT:	Ty Schreiner	ALS SDG#:	EV14020120
CLIENT PROJECT:	Cornet Bay	WDOE ACCREDITATION:	C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 7649 - Water by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	83.2			02/19/2014	EBS

ALS Test Batch ID: 7647 - Soil by EPA-8270 SIM

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Naphthalene - BS	EPA-8270 SIM	117			02/24/2014	LAP
Naphthalene - BSD	EPA-8270 SIM	106	10		02/24/2014	LAP
Acenaphthene - BS	EPA-8270 SIM	145			02/24/2014	LAP
Acenaphthene - BSD	EPA-8270 SIM	152	5	SQ3	02/24/2014	LAP
Pyrene - BS	EPA-8270 SIM	121			02/24/2014	LAP
Pyrene - BSD	EPA-8270 SIM	117	4		02/24/2014	LAP
Benzo[G,H,I]Perylene - BS	EPA-8270 SIM	123			02/24/2014	LAP
Benzo[G,H,I]Perylene - BSD	EPA-8270 SIM	113	8		02/24/2014	LAP

SQ3 - Spike outside of control limits due to sporadic marginal failure. All other spikes in extraction fraction within control limits. No corrective action taken.

APPROVED BY

Laboratory Director



ALS Environmental
 8620 Holly Drive, Suite 100
 Everett, WA 98208
 Phone (425) 356-2600
 Fax (425) 356-2626
<http://www.alsglobal.com>

Chain Of Custody/ Laboratory Analysis Request

Date _____ Page _____ Of _____

PROJECT INFORMATION				ANALYSIS REQUESTED												OTHER (Specify)					
PROJECT ID:	REPORT TO COMPANY:	PROJECT MANAGER:	ADDRESS:	MTBE by EPA-8021	BTEX by EPA-8021	NMTPH-GX	NMTPH-DX	NMTPH-HCID	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM	PCB Pesticides by EPA 8081/8082	Metals-MTCA-5 RCRA-8 Pii Poi TAL	Metals Other (Specify)	TCLP-Metals VOA Semi-Vol Pest Herbs	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?	
1. FB-021714	KENNEDY STEEL	71 CENTRAL	2801 22nd AVE S. Ste 100	X	X	X	X	X													
2. RB-3			Federal Way, WA 98001	X	X	X	X	X													
3. RB-4				X	X	X	X	X													
4. A3-15-7 SPIT				X	X	X	X	X													
5. A02-13-12 SPIT				X	X	X	X	X						X							
6. SP2-21				X	X	X	X	X													
7.																					
8.																					
9.																					
10.																					

CLIENT COPY

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: JARON FISHER, VLS, 2/21/10, 1218

Received By: _____

2. Relinquished By: _____

Received By: _____

TURNAROUND REQUESTED in Business Days*
 OTHER: _____

Organic, Metals & Inorganic Analysis
 10 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis
 5 3 1 SAME DAY

Specify: _____

* Turnaround request less than standard may incur Rush Charges



March 4, 2014

Mr. Ty Schreiner
Kennedy/Jenks Consultants
32001 - 32nd Ave S., Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner,

On February 21st, 6 samples were received by our laboratory and assigned our laboratory project number EV14020120. The project was identified as your Cornet Bay. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director



CERTIFICATE OF ANALYSIS

CLIENT: Kennedy/Jenks Consultants
 32001 - 32nd Ave S., Suite 100
 Federal Way, WA 98001

DATE: 3/4/2014
 ALS JOB#: EV14020120
 ALS SAMPLE#: EV14020120-01
 DATE RECEIVED: 02/21/2014
 COLLECTION DATE: 2/17/2014 4:00:00 PM
 WDOE ACCREDITATION: C601

CLIENT CONTACT: Ty Schreiner
 CLIENT PROJECT: Cornet Bay
 CLIENT SAMPLE ID: FB-021714

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	02/25/2014	DLC
Benzene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	02/25/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	130	1	UG/L	02/24/2014	EBS
TPH-Oil Range	NWTPH-DX	U	250	1	UG/L	02/24/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	98.2	02/25/2014	DLC
TFT	EPA-8021	89.2	02/25/2014	DLC
C25	NWTPH-DX	85.5	02/24/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/4/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14020120
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14020120-02
CLIENT SAMPLE ID	RB-3	DATE RECEIVED:	02/21/2014
		COLLECTION DATE:	2/19/2014 1:30:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	02/25/2014	DLC
Benzene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	02/25/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	130	1	UG/L	02/24/2014	EBS
TPH-Oil Range	NWTPH-DX	U	250	1	UG/L	02/24/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	107	02/25/2014	DLC
TFT	EPA-8021	102	02/25/2014	DLC
C25	NWTPH-DX	107	02/24/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/4/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14020120
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14020120-03
CLIENT SAMPLE ID	RB-4	DATE RECEIVED:	02/21/2014
		COLLECTION DATE:	2/20/2014 2:00:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	02/25/2014	DLC
Benzene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	02/25/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	130	1	UG/L	02/25/2014	EBS
TPH-Oil Range	NWTPH-DX	370	250	1	UG/L	02/25/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	103	02/25/2014	DLC
TFT	EPA-8021	101	02/25/2014	DLC
C25	NWTPH-DX	79.7	02/25/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains an unidentified oil range product.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/4/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14020120
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14020120-04
CLIENT SAMPLE ID	A3-15-7 Split	DATE RECEIVED:	02/21/2014
		COLLECTION DATE:	2/19/2014 8:35:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	26	3.0	1	MG/KG	02/25/2014	DLC
Benzene	EPA-8021	0.54	0.030	1	MG/KG	02/25/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	02/25/2014	DLC
Ethylbenzene	EPA-8021	0.38	0.050	1	MG/KG	02/25/2014	DLC
Xylenes	EPA-8021	0.98	0.20	1	MG/KG	02/25/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	02/24/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	02/24/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	104	02/25/2014	DLC
TFT	EPA-8021	119	02/25/2014	DLC
C25	NWTPH-DX	96.1	02/24/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/4/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14020120
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14020120-05
CLIENT SAMPLE ID	A02-13-12 Split	DATE RECEIVED:	02/21/2014
		COLLECTION DATE:	2/20/2014 3:15:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	5.9	3.0	1	MG/KG	02/25/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	02/25/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	02/25/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	02/25/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	02/25/2014	DLC
TPH-Diesel Range	NWTPH-DX	120	25	1	MG/KG	02/24/2014	EBS
TPH-Oil Range	NWTPH-DX	61	50	1	MG/KG	02/24/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	75.6	02/25/2014	DLC
TFT	EPA-8021	76.0	02/25/2014	DLC
C25	NWTPH-DX	88.2	02/24/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline, an unidentified diesel range product and an unidentified oil range product.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/4/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14020120
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14020120-06
CLIENT SAMPLE ID	SP2-21	DATE RECEIVED:	02/21/2014
		COLLECTION DATE:	2/21/2014 11:40:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	02/24/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	02/24/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	02/24/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	02/24/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	02/24/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	02/24/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	02/24/2014	EBS
Naphthalene	EPA-8270 SIM	93	20	1	UG/KG	02/24/2014	LAP
2-Methylnaphthalene	EPA-8270 SIM	23	20	1	UG/KG	02/24/2014	LAP
1-Methylnaphthalene	EPA-8270 SIM	35	20	1	UG/KG	02/24/2014	LAP
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Acenaphthene	EPA-8270 SIM	110	20	1	UG/KG	02/24/2014	LAP
Fluorene	EPA-8270 SIM	310	20	1	UG/KG	02/24/2014	LAP
Phenanthrene	EPA-8270 SIM	270	20	1	UG/KG	02/24/2014	LAP
Anthracene	EPA-8270 SIM	40	20	1	UG/KG	02/24/2014	LAP
Fluoranthene	EPA-8270 SIM	200	20	1	UG/KG	02/24/2014	LAP
Pyrene	EPA-8270 SIM	140	20	1	UG/KG	02/24/2014	LAP
Benzo[A]Anthracene	EPA-8270 SIM	42	20	1	UG/KG	02/24/2014	LAP
Chrysene	EPA-8270 SIM	61	20	1	UG/KG	02/24/2014	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	21	20	1	UG/KG	02/24/2014	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	24	20	1	UG/KG	02/24/2014	LAP
Benzo[A]Pyrene	EPA-8270 SIM	21	20	1	UG/KG	02/24/2014	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	93.7	02/24/2014	DLC
TFT	EPA-8021	92.5	02/24/2014	DLC
C25	NWTPH-DX	93.4	02/24/2014	EBS
Terphenyl-d14	EPA-8270 SIM	83.3	02/24/2014	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: Kennedy/Jenks Consultants **DATE:** 3/4/2014
 32001 - 32nd Ave S., Suite 100 **ALS SDG#:** EV14020120
 Federal Way, WA 98001 **WDOE ACCREDITATION:** C601
CLIENT CONTACT: Ty Schreiner
CLIENT PROJECT: Cornet Bay

LABORATORY BLANK RESULTS

MBG-021914S - Batch 7643 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	02/19/2014	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-021914W2 - Batch 7651 - Water by NWTPH-GX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	02/19/2014	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-021914S - Batch 7643 - Soil by EPA-8021

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8021	U	0.030	1	MG/KG	02/19/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	02/19/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	02/19/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	02/19/2014	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-021914W2 - Batch 7651 - Water by EPA-8021

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8021	U	1.0	1	UG/L	02/19/2014	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	02/19/2014	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	02/19/2014	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	02/19/2014	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-021914S - Batch 7646 - Soil by NWTPH-DX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	02/19/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	02/19/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

MB-021914W - Batch 7649 - Water by NWTPH-DX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	130	1	UG/L	02/19/2014	EBS



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/4/2014
CLIENT CONTACT:	Ty Schreiner	ALS SDG#:	EV14020120
CLIENT PROJECT:	Cornet Bay	WDOE ACCREDITATION:	C601

LABORATORY BLANK RESULTS

MB-021914W - Batch 7649 - Water by NWTPH-DX

TPH-Oil Range	NWTPH-DX	U	250	1	UG/L	02/19/2014	EBS
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U - Analyte analyzed for but not detected at level above reporting limit.

MB-022414S - Batch 7647 - Soil by EPA-8270 SIM

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Pyrene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/4/2014
CLIENT CONTACT:	Ty Schreiner	ALS SDG#:	EV14020120
CLIENT PROJECT:	Cornet Bay	WDOE ACCREDITATION:	C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 7643 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	72.2			02/19/2014	DLC
TPH-Volatile Range - BSD	NWTPH-GX	73.5	2		02/20/2014	DLC

ALS Test Batch ID: 7651 - Water by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	66.8			02/19/2014	DLC
TPH-Volatile Range - BSD	NWTPH-GX	70.7	6		02/19/2014	DLC

ALS Test Batch ID: 7643 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	EPA-8021	92.4			02/19/2014	DLC
Benzene - BSD	EPA-8021	91.6	1		02/19/2014	DLC
Toluene - BS	EPA-8021	95.9			02/19/2014	DLC
Toluene - BSD	EPA-8021	95.7	0		02/19/2014	DLC
Ethylbenzene - BS	EPA-8021	93.9			02/19/2014	DLC
Ethylbenzene - BSD	EPA-8021	93.5	0		02/19/2014	DLC
Xylenes - BS	EPA-8021	96.3			02/19/2014	DLC
Xylenes - BSD	EPA-8021	95.8	1		02/19/2014	DLC

ALS Test Batch ID: 7651 - Water by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	EPA-8021	102			02/19/2014	DLC
Benzene - BSD	EPA-8021	104	2		02/19/2014	DLC
Toluene - BS	EPA-8021	101			02/19/2014	DLC
Toluene - BSD	EPA-8021	103	2		02/19/2014	DLC
Ethylbenzene - BS	EPA-8021	101			02/19/2014	DLC
Ethylbenzene - BSD	EPA-8021	103	2		02/19/2014	DLC
Xylenes - BS	EPA-8021	101			02/19/2014	DLC
Xylenes - BSD	EPA-8021	103	2		02/19/2014	DLC

ALS Test Batch ID: 7646 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	102			02/19/2014	EBS
TPH-Diesel Range - BSD	NWTPH-DX	96.6	5		02/19/2014	EBS



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/4/2014
CLIENT CONTACT:	Ty Schreiner	ALS SDG#:	EV14020120
CLIENT PROJECT:	Cornet Bay	WDOE ACCREDITATION:	C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 7649 - Water by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	83.2			02/19/2014	EBS
TPH-Diesel Range - BSD	NWTPH-DX	87.4	5		02/19/2014	EBS

ALS Test Batch ID: 7647 - Soil by EPA-8270 SIM

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Naphthalene - BS	EPA-8270 SIM	117			02/24/2014	LAP
Naphthalene - BSD	EPA-8270 SIM	106	10		02/24/2014	LAP
Acenaphthene - BS	EPA-8270 SIM	145			02/24/2014	LAP
Acenaphthene - BSD	EPA-8270 SIM	152	5	SQ3	02/24/2014	LAP
Pyrene - BS	EPA-8270 SIM	121			02/24/2014	LAP
Pyrene - BSD	EPA-8270 SIM	117	4		02/24/2014	LAP
Benzo[G,H,I]Perylene - BS	EPA-8270 SIM	123			02/24/2014	LAP
Benzo[G,H,I]Perylene - BSD	EPA-8270 SIM	113	8		02/24/2014	LAP

SQ3 - Spike outside of control limits due to sporadic marginal failure. All other spikes in extraction fraction within control limits. No corrective action taken.

APPROVED BY

Laboratory Director



ALS Environmental
 8620 Holly Drive, Suite 100
 Everett, WA 98208
 Phone (425) 356-2600
 Fax (425) 356-2626
<http://www.alsglobal.com>

Chain Of Custody/ Laboratory Analysis Request

Date _____ Page _____ Of _____

PROJECT INFORMATION				ANALYSIS REQUESTED												OTHER (Specify)					
PROJECT ID:	REPORT TO COMPANY:	PROJECT MANAGER:	ADDRESS:	MTBE by EPA-8021	BTEX by EPA-8021	NMTPH-GX	NMTPH-DX	NMTPH-HCID	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM	PCB Pesticides by EPA 8081/8082	Metals-MTCA-5 RCRA-8 Pii Poi TAL	Metals Other (Specify)	TCLP-Metals VOA Semi-Vol Pest Herbs	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?	
1. FB-021714	KENNEDY STEEL	71 CENTRAL	2801 22 nd AVE S. Ste 100	X	X	X	X	X													
2. RB-3			Federal Way, WA 98001	X	X	X	X	X													
3. RB-4			PHONE: 252 256 6100 FAX:	X	X	X	X	X													
4. A3-15-7 SPRT			P.O. #: 12910100 E-MAIL: JACOD.FISH@VANDERBILT.EDU	X	X	X	X	X													
5. A02-13-12 SPRT			INVOICE TO COMPANY: SAME	X	X	X	X	X													
6. SP2-21			ATTENTION:	X	X	X	X	X													
7.			ADDRESS:																		
8.																					
9.																					
10.																					

CLIENT COPY

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

- Relinquished By: JACOD FISHER, VLS, 2/21/10, 1218
- Received By: _____
- Relinquished By: _____
- Received By: _____

TURNAROUND REQUESTED IN BUSINESS DAYS*
 OTHER: _____

Organic, Metals & Inorganic Analysis
 10 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis
 5 3 1 SAME DAY

* Turnaround request less than standard may incur Rush Charges



March 4, 2014

Mr. Ty Schreiner
Kennedy/Jenks Consultants
32001 - 32nd Ave S., Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner,

On February 21st, 6 samples were received by our laboratory and assigned our laboratory project number EV14020120. The project was identified as your Cornet Bay. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director



CERTIFICATE OF ANALYSIS

CLIENT: Kennedy/Jenks Consultants
 32001 - 32nd Ave S., Suite 100
 Federal Way, WA 98001

DATE: 3/4/2014
 ALS JOB#: EV14020120
 ALS SAMPLE#: EV14020120-01
 DATE RECEIVED: 02/21/2014
 COLLECTION DATE: 2/17/2014 4:00:00 PM
 WDOE ACCREDITATION: C601

CLIENT CONTACT: Ty Schreiner
 CLIENT PROJECT: Cornet Bay
 CLIENT SAMPLE ID: FB-021714

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	02/25/2014	DLC
Benzene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	02/25/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	130	1	UG/L	02/24/2014	EBS
TPH-Oil Range	NWTPH-DX	U	250	1	UG/L	02/24/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	98.2	02/25/2014	DLC
TFT	EPA-8021	89.2	02/25/2014	DLC
C25	NWTPH-DX	85.5	02/24/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/4/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14020120
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14020120-02
CLIENT SAMPLE ID	RB-3	DATE RECEIVED:	02/21/2014
		COLLECTION DATE:	2/19/2014 1:30:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	02/25/2014	DLC
Benzene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	02/25/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	130	1	UG/L	02/24/2014	EBS
TPH-Oil Range	NWTPH-DX	U	250	1	UG/L	02/24/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	107	02/25/2014	DLC
TFT	EPA-8021	102	02/25/2014	DLC
C25	NWTPH-DX	107	02/24/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/4/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14020120
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14020120-03
CLIENT SAMPLE ID	RB-4	DATE RECEIVED:	02/21/2014
		COLLECTION DATE:	2/20/2014 2:00:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	02/25/2014	DLC
Benzene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	02/25/2014	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	02/25/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	130	1	UG/L	02/25/2014	EBS
TPH-Oil Range	NWTPH-DX	370	250	1	UG/L	02/25/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	103	02/25/2014	DLC
TFT	EPA-8021	101	02/25/2014	DLC
C25	NWTPH-DX	79.7	02/25/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains an unidentified oil range product.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/4/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14020120
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14020120-04
CLIENT SAMPLE ID	A3-15-7 Split	DATE RECEIVED:	02/21/2014
		COLLECTION DATE:	2/19/2014 8:35:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	26	3.0	1	MG/KG	02/25/2014	DLC
Benzene	EPA-8021	0.54	0.030	1	MG/KG	02/25/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	02/25/2014	DLC
Ethylbenzene	EPA-8021	0.38	0.050	1	MG/KG	02/25/2014	DLC
Xylenes	EPA-8021	0.98	0.20	1	MG/KG	02/25/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	02/24/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	02/24/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	104	02/25/2014	DLC
TFT	EPA-8021	119	02/25/2014	DLC
C25	NWTPH-DX	96.1	02/24/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/4/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14020120
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14020120-05
CLIENT SAMPLE ID	A02-13-12 Split	DATE RECEIVED:	02/21/2014
		COLLECTION DATE:	2/20/2014 3:15:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	5.9	3.0	1	MG/KG	02/25/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	02/25/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	02/25/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	02/25/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	02/25/2014	DLC
TPH-Diesel Range	NWTPH-DX	120	25	1	MG/KG	02/24/2014	EBS
TPH-Oil Range	NWTPH-DX	61	50	1	MG/KG	02/24/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	75.6	02/25/2014	DLC
TFT	EPA-8021	76.0	02/25/2014	DLC
C25	NWTPH-DX	88.2	02/24/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline, an unidentified diesel range product and an unidentified oil range product.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/4/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14020120
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14020120-06
CLIENT SAMPLE ID	SP2-21	DATE RECEIVED:	02/21/2014
		COLLECTION DATE:	2/21/2014 11:40:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	02/24/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	02/24/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	02/24/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	02/24/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	02/24/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	02/24/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	02/24/2014	EBS
Naphthalene	EPA-8270 SIM	93	20	1	UG/KG	02/24/2014	LAP
2-Methylnaphthalene	EPA-8270 SIM	23	20	1	UG/KG	02/24/2014	LAP
1-Methylnaphthalene	EPA-8270 SIM	35	20	1	UG/KG	02/24/2014	LAP
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Acenaphthene	EPA-8270 SIM	110	20	1	UG/KG	02/24/2014	LAP
Fluorene	EPA-8270 SIM	310	20	1	UG/KG	02/24/2014	LAP
Phenanthrene	EPA-8270 SIM	270	20	1	UG/KG	02/24/2014	LAP
Anthracene	EPA-8270 SIM	40	20	1	UG/KG	02/24/2014	LAP
Fluoranthene	EPA-8270 SIM	200	20	1	UG/KG	02/24/2014	LAP
Pyrene	EPA-8270 SIM	140	20	1	UG/KG	02/24/2014	LAP
Benzo[A]Anthracene	EPA-8270 SIM	42	20	1	UG/KG	02/24/2014	LAP
Chrysene	EPA-8270 SIM	61	20	1	UG/KG	02/24/2014	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	21	20	1	UG/KG	02/24/2014	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	24	20	1	UG/KG	02/24/2014	LAP
Benzo[A]Pyrene	EPA-8270 SIM	21	20	1	UG/KG	02/24/2014	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	93.7	02/24/2014	DLC
TFT	EPA-8021	92.5	02/24/2014	DLC
C25	NWTPH-DX	93.4	02/24/2014	EBS
Terphenyl-d14	EPA-8270 SIM	83.3	02/24/2014	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: Kennedy/Jenks Consultants DATE: 3/4/2014
32001 - 32nd Ave S., Suite 100 ALS SDG#: EV14020120
Federal Way, WA 98001 WDOE ACCREDITATION: C601
CLIENT CONTACT: Ty Schreiner
CLIENT PROJECT: Cornet Bay

LABORATORY BLANK RESULTS

MBG-021914S - Batch 7643 - Soil by NWTPH-GX

Table with 9 columns: ANALYTE, METHOD, RESULTS, REPORTING LIMITS, DILUTION FACTOR, UNITS, ANALYSIS DATE, ANALYSIS BY. Row 1: TPH-Volatile Range, NWTPH-GX, U, 3.0, 1, MG/KG, 02/19/2014, DLC.

U - Analyte analyzed for but not detected at level above reporting limit.

MB-021914W2 - Batch 7651 - Water by NWTPH-GX

Table with 9 columns: ANALYTE, METHOD, RESULTS, REPORTING LIMITS, DILUTION FACTOR, UNITS, ANALYSIS DATE, ANALYSIS BY. Row 1: TPH-Volatile Range, NWTPH-GX, U, 50, 1, UG/L, 02/19/2014, DLC.

U - Analyte analyzed for but not detected at level above reporting limit.

MB-021914S - Batch 7643 - Soil by EPA-8021

Table with 9 columns: ANALYTE, METHOD, RESULTS, REPORTING LIMITS, DILUTION FACTOR, UNITS, ANALYSIS DATE, ANALYSIS BY. Rows: Benzene, Toluene, Ethylbenzene, Xylenes.

U - Analyte analyzed for but not detected at level above reporting limit.

MB-021914W2 - Batch 7651 - Water by EPA-8021

Table with 9 columns: ANALYTE, METHOD, RESULTS, REPORTING LIMITS, DILUTION FACTOR, UNITS, ANALYSIS DATE, ANALYSIS BY. Rows: Benzene, Toluene, Ethylbenzene, Xylenes.

U - Analyte analyzed for but not detected at level above reporting limit.

MB-021914S - Batch 7646 - Soil by NWTPH-DX

Table with 9 columns: ANALYTE, METHOD, RESULTS, REPORTING LIMITS, DILUTION FACTOR, UNITS, ANALYSIS DATE, ANALYSIS BY. Rows: TPH-Diesel Range, TPH-Oil Range.

U - Analyte analyzed for but not detected at level above reporting limit.

MB-021914W - Batch 7649 - Water by NWTPH-DX

Table with 9 columns: ANALYTE, METHOD, RESULTS, REPORTING LIMITS, DILUTION FACTOR, UNITS, ANALYSIS DATE, ANALYSIS BY. Row 1: TPH-Diesel Range, NWTPH-DX, U, 130, 1, UG/L, 02/19/2014, EBS.



CERTIFICATE OF ANALYSIS

CLIENT: Kennedy/Jenks Consultants **DATE:** 3/4/2014
 32001 - 32nd Ave S., Suite 100 **ALS SDG#:** EV14020120
 Federal Way, WA 98001 **WDOE ACCREDITATION:** C601
CLIENT CONTACT: Ty Schreiner
CLIENT PROJECT: Cornet Bay

LABORATORY BLANK RESULTS

MB-021914W - Batch 7649 - Water by NWTPH-DX

TPH-Oil Range	NWTPH-DX	U	250	1	UG/L	02/19/2014	EBS
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U - Analyte analyzed for but not detected at level above reporting limit.

MB-022414S - Batch 7647 - Soil by EPA-8270 SIM

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Pyrene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	02/24/2014	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/4/2014
CLIENT CONTACT:	Ty Schreiner	ALS SDG#:	EV14020120
CLIENT PROJECT:	Cornet Bay	WDOE ACCREDITATION:	C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 7643 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	72.2			02/19/2014	DLC
TPH-Volatile Range - BSD	NWTPH-GX	73.5	2		02/20/2014	DLC

ALS Test Batch ID: 7651 - Water by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	66.8			02/19/2014	DLC
TPH-Volatile Range - BSD	NWTPH-GX	70.7	6		02/19/2014	DLC

ALS Test Batch ID: 7643 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	EPA-8021	92.4			02/19/2014	DLC
Benzene - BSD	EPA-8021	91.6	1		02/19/2014	DLC
Toluene - BS	EPA-8021	95.9			02/19/2014	DLC
Toluene - BSD	EPA-8021	95.7	0		02/19/2014	DLC
Ethylbenzene - BS	EPA-8021	93.9			02/19/2014	DLC
Ethylbenzene - BSD	EPA-8021	93.5	0		02/19/2014	DLC
Xylenes - BS	EPA-8021	96.3			02/19/2014	DLC
Xylenes - BSD	EPA-8021	95.8	1		02/19/2014	DLC

ALS Test Batch ID: 7651 - Water by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	EPA-8021	102			02/19/2014	DLC
Benzene - BSD	EPA-8021	104	2		02/19/2014	DLC
Toluene - BS	EPA-8021	101			02/19/2014	DLC
Toluene - BSD	EPA-8021	103	2		02/19/2014	DLC
Ethylbenzene - BS	EPA-8021	101			02/19/2014	DLC
Ethylbenzene - BSD	EPA-8021	103	2		02/19/2014	DLC
Xylenes - BS	EPA-8021	101			02/19/2014	DLC
Xylenes - BSD	EPA-8021	103	2		02/19/2014	DLC

ALS Test Batch ID: 7646 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	102			02/19/2014	EBS
TPH-Diesel Range - BSD	NWTPH-DX	96.6	5		02/19/2014	EBS



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/4/2014
CLIENT CONTACT:	Ty Schreiner	ALS SDG#:	EV14020120
CLIENT PROJECT:	Cornet Bay	WDOE ACCREDITATION:	C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 7649 - Water by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	83.2			02/19/2014	EBS
TPH-Diesel Range - BSD	NWTPH-DX	87.4	5		02/19/2014	EBS

ALS Test Batch ID: 7647 - Soil by EPA-8270 SIM

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Naphthalene - BS	EPA-8270 SIM	117			02/24/2014	LAP
Naphthalene - BSD	EPA-8270 SIM	106	10		02/24/2014	LAP
Acenaphthene - BS	EPA-8270 SIM	145			02/24/2014	LAP
Acenaphthene - BSD	EPA-8270 SIM	152	5	SQ3	02/24/2014	LAP
Pyrene - BS	EPA-8270 SIM	121			02/24/2014	LAP
Pyrene - BSD	EPA-8270 SIM	117	4		02/24/2014	LAP
Benzo[G,H,I]Perylene - BS	EPA-8270 SIM	123			02/24/2014	LAP
Benzo[G,H,I]Perylene - BSD	EPA-8270 SIM	113	8		02/24/2014	LAP

SQ3 - Spike outside of control limits due to sporadic marginal failure. All other spikes in extraction fraction within control limits. No corrective action taken.

APPROVED BY

Laboratory Director



ALS Environmental
 8620 Holly Drive, Suite 100
 Everett, WA 98208
 Phone (425) 356-2600
 Fax (425) 356-2626
 http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

Date _____ Page _____ Of _____

PROJECT INFORMATION				ANALYSIS REQUESTED												OTHER (Specify)					
PROJECT ID:	REPORT TO COMPANY:	PROJECT MANAGER:	ADDRESS:	MTBE by EPA-8021	BTEX by EPA-8021	NMTPH-GX	NMTPH-DX	NMTPH-HCID	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM	PCB Pesticides by EPA 8081/8082	Metals-MTCA-5 RCRA-8 Pii Poi TAL	Metals Other (Specify)	TCLP-Metals VOA Semi-Vol Pest Herbs	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?	
1. FB-021714	KENNEDY STEEL	71 CENTRAL	2800 22nd AVE S. Ste 100		X	X	X	X													
2. RB-3			Federal Way, WA 98001		X	X	X	X													
3. RB-4			PHONE: 252 256 6100 FAX:		X	X	X	X													
4. A3-15-7 SPRT			P.O. #: 12910100 E-MAIL: JACOD@fishco.com		X	X	X	X													
5. A02-13-12 SPRT			INVOICE TO COMPANY: SAME		X	X	X	X													
6. SP2-21			ATTENTION:		X	X	X	X													
7.			ADDRESS:																		
8.																					
9.																					
10.																					

CLIENT COPY

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

- Relinquished By: JACOD FISHER, VLS, 2/21/10, 1218
- Received By: _____
- Relinquished By: _____
- Received By: _____

TURNAROUND REQUESTED IN BUSINESS DAYS*
 OTHER: _____

Organic, Metals & Inorganic Analysis
 10 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis
 5 3 1 SAME DAY

Specify: _____

* Turnaround request less than standard may incur Rush Charges



March 18, 2014

Mr. Ty Schreiner
Kennedy/Jenks Consultants
32001 - 32nd Ave S., Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner,

On March 14th, 3 samples were received by our laboratory and assigned our laboratory project number EV14030103. The project was identified as your Cornet Bay. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director



CERTIFICATE OF ANALYSIS

CLIENT: Kennedy/Jenks Consultants
 32001 - 32nd Ave S., Suite 100
 Federal Way, WA 98001

DATE: 3/18/2014
 ALS JOB#: EV14030103
 ALS SAMPLE#: EV14030103-01
 DATE RECEIVED: 03/14/2014
 COLLECTION DATE: 3/6/2014 7:45:00 AM
 WDOE ACCREDITATION: C601

CLIENT CONTACT: Ty Schreiner
 CLIENT PROJECT: Cornet Bay
 CLIENT SAMPLE ID: A05-18-12

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	03/17/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	03/17/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	03/17/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	03/17/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	03/17/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	03/17/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	03/17/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	80.6	03/17/2014	DLC
TFT	EPA-8021	76.4	03/17/2014	DLC
C25	NWTPH-DX	64.1	03/17/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/18/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14030103
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14030103-02
CLIENT SAMPLE ID	A06-8-7	DATE RECEIVED:	03/14/2014
		COLLECTION DATE:	3/11/2014 10:06:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	03/17/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	03/17/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	03/17/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	03/17/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	03/17/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	03/17/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	03/17/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	82.1	03/17/2014	DLC
TFT	EPA-8021	79.7	03/17/2014	DLC
C25	NWTPH-DX	83.8	03/17/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/18/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14030103
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14030103-03
CLIENT SAMPLE ID	A07-2-6	DATE RECEIVED:	03/14/2014
		COLLECTION DATE:	3/14/2014 11:20:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	03/17/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	03/17/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	03/17/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	03/17/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	03/17/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	03/17/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	03/17/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	89.0	03/17/2014	DLC
TFT	EPA-8021	87.2	03/17/2014	DLC
C25	NWTPH-DX	85.9	03/17/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/18/2014
CLIENT CONTACT:	Ty Schreiner	ALS SDG#:	EV14030103
CLIENT PROJECT:	Cornet Bay	WDOE ACCREDITATION:	C601

LABORATORY BLANK RESULTS

MBG-031414S - Batch 7718 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	03/14/2014	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-031414S - Batch 7718 - Soil by EPA-8021

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8021	U	0.030	1	MG/KG	03/14/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	03/14/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	03/14/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	03/14/2014	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-031714S - Batch 7716 - Soil by NWTPH-DX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	03/17/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	03/17/2014	EBS
TPH-Mineral Oil	NWTPH-DX	U	50	1	MG/KG	03/17/2014	EBS
TPH-Transformer Oil	NWTPH-DX	U	50	1	MG/KG	03/17/2014	EBS
TPH-Automatic Transmission Fluid	NWTPH-DX	U	25	1	MG/KG	03/17/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/18/2014
CLIENT CONTACT:	Ty Schreiner	ALS SDG#:	EV14030103
CLIENT PROJECT:	Cornet Bay	WDOE ACCREDITATION:	C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 7718 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	70.8			03/14/2014	DLC
TPH-Volatile Range - BSD	NWTPH-GX	66.7	6		03/14/2014	DLC

ALS Test Batch ID: 7718 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	EPA-8021	86.7			03/14/2014	DLC
Benzene - BSD	EPA-8021	86.1	1		03/14/2014	DLC
Toluene - BS	EPA-8021	90.2			03/14/2014	DLC
Toluene - BSD	EPA-8021	89.2	1		03/14/2014	DLC
Ethylbenzene - BS	EPA-8021	88.1			03/14/2014	DLC
Ethylbenzene - BSD	EPA-8021	86.9	1		03/14/2014	DLC
Xylenes - BS	EPA-8021	89.0			03/14/2014	DLC
Xylenes - BSD	EPA-8021	87.9	1		03/14/2014	DLC

ALS Test Batch ID: 7716 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	86.6			03/17/2014	EBS
TPH-Diesel Range - BSD	NWTPH-DX	87.9	1		03/17/2014	EBS

APPROVED BY

Laboratory Director



ALS Environmental
 8620 Holly Drive, Suite 100
 Everett, WA 98208
 Phone (425) 356-2600
 Fax (425) 356-2626
 http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV14030103

Date _____ Page _____ Of _____

PROJECT ID: REPORT TO COMPANY: PROJECT MANAGER: ADDRESS: PHONE: P.O. #: INVOICE TO COMPANY: ATTENTION: ADDRESS:	ANALYSIS REQUESTED				OTHER (Specify)											
	DATE	TIME	TYPE	LAB#	MTBE by EPA-8021 <input type="checkbox"/>	Halogenated Volatiles by EPA 8260 <input type="checkbox"/>	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 SIM (soil)	Semi-volatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM <input type="checkbox"/>	PCB <input type="checkbox"/> Pesticides <input type="checkbox"/> by EPA 8081/8082	Metals-MTCA-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> Pfl Pol <input type="checkbox"/> TAL <input type="checkbox"/>	Metals Other (Specify)	TCLP-Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-Vol <input type="checkbox"/> Pest <input type="checkbox"/> Herbs <input type="checkbox"/>	NUMBER OF CONTAINERS
1. A05-18-12 Cornet Bay Kennedy Jenks Consultants TY 32001 32nd Ave S Suite 100 Federal Way, WA 98001 PHONE: 253.835.6400 FAX: E-MAIL: raymondlopez@kennedyjenks.com	3/10	0745	soil	1	X	X	X	X	X	X					3	
2. A06-8-7	3/11	1006	soil	2	X	X	X	X	X	X					3	
3. A07-2-6	3/14	1120	soil	3	X	X	X	X	X	X					2	
4.																
5.																
6.																
7.																
8.																
9.																
10.																

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Raymond Lopez 3/14/14 1620
 Received By: Shawn Robinson ALS 3/14/14 1620

2. Relinquished By: _____

Received By: _____

TURNAROUND REQUESTED in Business Days*
 Organic, Metals & Inorganic Analysis
 OTHER:

Specify: 10 Standard 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis

10 Standard 5 3 2 1 SAME DAY

* Turnaround request less than standard may incur Rush Charges



March 28, 2014

Mr. Ty Schreiner
Kennedy/Jenks Consultants
32001 - 32nd Ave S., Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner,

On March 27th, 6 samples were received by our laboratory and assigned our laboratory project number EV14030198. The project was identified as your Cornet Bay. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director



CERTIFICATE OF ANALYSIS

CLIENT: Kennedy/Jenks Consultants
 32001 - 32nd Ave S., Suite 100
 Federal Way, WA 98001

DATE: 3/28/2014
 ALS JOB#: EV14030198
 ALS SAMPLE#: EV14030198-01
 DATE RECEIVED: 03/27/2014
 COLLECTION DATE: 3/19/2014 11:30:00 AM
 WDOE ACCREDITATION: C601

CLIENT CONTACT: Ty Schreiner
 CLIENT PROJECT: Cornet Bay
 CLIENT SAMPLE ID: A05-25-15

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	03/27/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	03/27/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	03/27/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	03/27/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	03/27/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	03/28/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	03/28/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	74.1	03/27/2014	DLC
TFT	EPA-8021	82.7	03/27/2014	DLC
C25	NWTPH-DX	107	03/28/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/28/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14030198
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14030198-02
CLIENT SAMPLE ID	A05-26-12	DATE RECEIVED:	03/27/2014
		COLLECTION DATE:	3/20/2014 11:34:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	03/27/2014	DLC
Benzene	EPA-8021	0.14	0.030	1	MG/KG	03/27/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	03/27/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	03/27/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	03/27/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	03/28/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	03/28/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	91.0	03/27/2014	DLC
TFT	EPA-8021	103	03/27/2014	DLC
C25	NWTPH-DX	126	03/28/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/28/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14030198
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14030198-03
CLIENT SAMPLE ID	A05-27-13	DATE RECEIVED:	03/27/2014
		COLLECTION DATE:	3/20/2014 1:50:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	03/27/2014	DLC
Benzene	EPA-8021	0.15	0.030	1	MG/KG	03/27/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	03/27/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	03/27/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	03/27/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	03/28/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	03/28/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT	NWTPH-GX	80.5	03/27/2014	DLC
TFT	EPA-8021	90.1	03/27/2014	DLC
C25	NWTPH-DX	105	03/28/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/28/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14030198
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14030198-04
CLIENT SAMPLE ID	A05-28-6	DATE RECEIVED:	03/27/2014
		COLLECTION DATE:	3/20/2014 2:00:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	03/27/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	03/27/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	03/27/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	03/27/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	03/27/2014	DLC
TPH-Diesel Range	NWTPH-DX	62	25	1	MG/KG	03/28/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	03/28/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	93.1	03/27/2014	DLC
TFT	EPA-8021	105	03/27/2014	DLC
C25	NWTPH-DX	102	03/28/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains an unidentified diesel range product.

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/28/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14030198
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14030198-05
CLIENT SAMPLE ID	A06-17-7 SPLIT	DATE RECEIVED:	03/27/2014
		COLLECTION DATE:	3/27/2014 12:00:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	03/27/2014	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	03/27/2014	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	03/27/2014	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	03/27/2014	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	03/27/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	03/28/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	03/28/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	89.8	03/27/2014	DLC
TFT	EPA-8021	100	03/27/2014	DLC
C25	NWTPH-DX	102	03/28/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/28/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14030198
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14030198-06
CLIENT SAMPLE ID	FB-032714	DATE RECEIVED:	03/27/2014
		COLLECTION DATE:	3/27/2014 1:30:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	69	1	UG/L	03/27/2014	DLC
Benzene	EPA-8021	U	5.0	1	UG/L	03/27/2014	DLC
Toluene	EPA-8021	U	5.0	1	UG/L	03/27/2014	DLC
Ethylbenzene	EPA-8021	U	5.0	1	UG/L	03/27/2014	DLC
Xylenes	EPA-8021	U	15	1	UG/L	03/27/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	130	1	UG/L	03/27/2014	EBS
TPH-Oil Range	NWTPH-DX	U	260	1	UG/L	03/27/2014	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	103	03/27/2014	DLC
TFT	EPA-8021	91.1	03/27/2014	DLC
C25	NWTPH-DX	92.5	03/27/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: Kennedy/Jenks Consultants DATE: 3/28/2014
 32001 - 32nd Ave S., Suite 100 ALS SDG#: EV14030198
 Federal Way, WA 98001 WDOE ACCREDITATION: C601

CLIENT CONTACT: Ty Schreiner
 CLIENT PROJECT: Cornet Bay

LABORATORY BLANK RESULTS

MB-032014W - Batch 7732 - Water by NWTPH-DX

TPH-Oil Range	NWTPH-DX	U	250	1	UG/L	03/20/2014	EBS
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U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	3/28/2014
CLIENT CONTACT:	Ty Schreiner	ALS SDG#:	EV14030198
CLIENT PROJECT:	Cornet Bay	WDOE ACCREDITATION:	C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 7755 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	76.0			03/27/2014	DLC
TPH-Volatile Range - BSD	NWTPH-GX	78.3	3		03/27/2014	DLC

ALS Test Batch ID: 7752 - Water by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	72.6			03/26/2014	DLC
TPH-Volatile Range - BSD	NWTPH-GX	74.5	2		03/26/2014	DLC

ALS Test Batch ID: 7755 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	EPA-8021	108			03/28/2014	DLC
Benzene - BSD	EPA-8021	107	1		03/27/2014	DLC
Toluene - BS	EPA-8021	113			03/28/2014	DLC
Toluene - BSD	EPA-8021	112	1		03/27/2014	DLC
Ethylbenzene - BS	EPA-8021	110			03/28/2014	DLC
Ethylbenzene - BSD	EPA-8021	109	0		03/27/2014	DLC
Xylenes - BS	EPA-8021	111			03/28/2014	DLC
Xylenes - BSD	EPA-8021	111	0		03/27/2014	DLC

ALS Test Batch ID: 7752 - Water by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	EPA-8021	93.5			03/26/2014	DLC
Benzene - BSD	EPA-8021	95.6	2		03/26/2014	DLC
Toluene - BS	EPA-8021	94.3			03/26/2014	DLC
Toluene - BSD	EPA-8021	96.4	2		03/26/2014	DLC
Ethylbenzene - BS	EPA-8021	93.1			03/26/2014	DLC
Ethylbenzene - BSD	EPA-8021	95.2	2		03/26/2014	DLC
Xylenes - BS	EPA-8021	93.1			03/26/2014	DLC
Xylenes - BSD	EPA-8021	95.1	2		03/26/2014	DLC

ALS Test Batch ID: 7741 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	107			03/25/2014	EBS
TPH-Diesel Range - BSD	NWTPH-DX	96.4	10		03/25/2014	EBS



CERTIFICATE OF ANALYSIS

CLIENT: Kennedy/Jenks Consultants
32001 - 32nd Ave S., Suite 100
Federal Way, WA 98001
DATE: 3/28/2014
ALS SDG#: EV14030198
WDOE ACCREDITATION: C601
CLIENT CONTACT: Ty Schreiner
CLIENT PROJECT: Cornet Bay

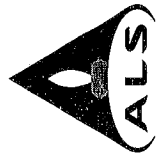
LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 7732 - Water by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	76.6			03/20/2014	EBS
TPH-Diesel Range - BSD	NWTPH-DX	83.1	8		03/20/2014	EBS

APPROVED BY

Laboratory Director



ALS Environmental
 8620 Holly Drive, Suite 100
 Everett, WA 98208
 Phone (425) 356-2600
 Fax (425) 356-2626
 http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV14030198

Date 3/27/14 Page Of

PROJECT INFORMATION				ANALYSIS REQUESTED										OTHER (Specify)					
PROJECT ID:	REPORT TO COMPANY:	PROJECT MANAGER:	ADDRESS:	MTBE by EPA-8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semi-volatile Organic Compounds by EPA 8270	Polyyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM	PCB Pesticides by EPA 8081/8082	Metals-MTCA-5 RCRA-8 Pt Pol TAL	Metals Other (Specify)	TCLP-Metals VOA Semi-Vol Pest Herbs	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?			
SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA-8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semi-volatile Organic Compounds by EPA 8270	Polyyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM	PCB Pesticides by EPA 8081/8082	Metals-MTCA-5 RCRA-8 Pt Pol TAL	Metals Other (Specify)	TCLP-Metals VOA Semi-Vol Pest Herbs	
1. AOS-25-15	3/19/14	1130	soil	1	X	X	X	X											
2. AOS-26-12	3/20/14	1134	soil	2	X	X	X	X											
3. AOS-27-13	3/20/14	1350	soil	3	X	X	X	X											
4. AOS-28-6	3/20/14	1400	soil	4	X	X	X	X											
5. AOS-17-7 SPIT	3/27/14	1200	soil	5	X	X	X	X											
6. FB-032714	3/27/14	1330	water	6	X	X	X	X											
7.																			
8.																			
9.																			
10.																			

ANALYSIS REQUESTED

PROJECT ID: CORNEY BAY

REPORT TO COMPANY: KJ

PROJECT MANAGER: TY S.

ADDRESS: 32001 32nd Ave S.
Ste 100 Federal Way, WA

PHONE: 253 835 6400 FAX:

P.O. #: E-MAIL:

INVOICE TO COMPANY: SAME

ATTENTION:

ADDRESS:

LABORATORY COPY

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: ALAN FISHER Kennedy Leaks 3/27/14 1236
ALAN FISHER Kennedy Leaks 3/27/14 2:30

Received By:

2. Relinquished By:

Received By:

TURNAROUND REQUESTED in Business Days*
 Organic, Metals & Inorganic Analysis
 OTHER:

Specify:

10 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis

5 3 2 1 SAME DAY

* Turnaround request less than standard may incur Rush Charges



May 5, 2014

Mr. Ty Schreiner
Kennedy/Jenks Consultants
32001 - 32nd Ave S., Suite 100
Federal Way, WA 98001

Dear Mr. Schreiner,

On April 30th, 1 sample was received by our laboratory and assigned our laboratory project number EV14040170. The project was identified as your Cornet Bay. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director



CERTIFICATE OF ANALYSIS

CLIENT: Kennedy/Jenks Consultants
 32001 - 32nd Ave S., Suite 100
 Federal Way, WA 98001

CLIENT CONTACT: Ty Schreiner
 CLIENT PROJECT: Cornet Bay
 CLIENT SAMPLE ID: A05-25-12

DATE: 5/5/2014
 ALS JOB#: EV14040170
 ALS SAMPLE#: EV14040170-01
 DATE RECEIVED: 04/30/2014
 COLLECTION DATE: 4/30/2014 1:30:00 PM
 WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	05/01/2014	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	05/01/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	05/01/2014	EBS
Dichlorodifluoromethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Chloromethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Vinyl Chloride	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Bromomethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Chloroethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Carbon Disulfide	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Acetone	EPA-8260	U	50	1	ug/Kg	05/05/2014	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Methylene Chloride	EPA-8260	U	20	1	ug/Kg	05/05/2014	GAP
Acrylonitrile	EPA-8260	U	50	1	ug/Kg	05/05/2014	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
2-Butanone	EPA-8260	U	50	1	ug/Kg	05/05/2014	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Bromochloromethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Chloroform	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Benzene	EPA-8260	U	5.0	1	ug/Kg	05/05/2014	GAP
Trichloroethene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Dibromomethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Bromodichloromethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	ug/Kg	05/05/2014	GAP
Toluene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
2-Hexanone	EPA-8260	U	50	1	ug/Kg	05/05/2014	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP



CERTIFICATE OF ANALYSIS

CLIENT: Kennedy/Jenks Consultants
32001 - 32nd Ave S., Suite 100
Federal Way, WA 98001

DATE: 5/5/2014

ALS JOB#: EV14040170

ALS SAMPLE#: EV14040170-01

CLIENT CONTACT: Ty Schreiner

DATE RECEIVED: 04/30/2014

CLIENT PROJECT: Cornet Bay

COLLECTION DATE: 4/30/2014 1:30:00 PM

CLIENT SAMPLE ID A05-25-12

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
Tetrachloroethylene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Dibromochloromethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	ug/Kg	05/05/2014	GAP
Chlorobenzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Ethylbenzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
m,p-Xylene	EPA-8260	U	20	1	ug/Kg	05/05/2014	GAP
Styrene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
o-Xylene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Bromoform	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Isopropylbenzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Bromobenzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
N-Propyl Benzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
2-Chlorotoluene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
4-Chlorotoluene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
T-Butyl Benzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
S-Butyl Benzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
N-Butylbenzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	ug/Kg	05/05/2014	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Naphthalene	EPA-8260	46	10	1	ug/Kg	05/05/2014	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT	NWTPH-GX	91.7	05/01/2014	DLC
C25	NWTPH-DX	84.6	05/01/2014	EBS
1,2-Dichloroethane-d4	EPA-8260	130	05/05/2014	GAP
Toluene-d8	EPA-8260	92.2	05/05/2014	GAP

CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	5/5/2014
CLIENT CONTACT:	Ty Schreiner	ALS JOB#:	EV14040170
CLIENT PROJECT:	Cornet Bay	ALS SAMPLE#:	EV14040170-01
CLIENT SAMPLE ID	A05-25-12	DATE RECEIVED:	04/30/2014
		COLLECTION DATE:	4/30/2014 1:30:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
4-Bromofluorobenzene	EPA-8260	98.3	05/05/2014	GAP

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Kennedy/Jenks Consultants 32001 - 32nd Ave S., Suite 100 Federal Way, WA 98001	DATE:	5/5/2014
		ALS SDG#:	EV14040170
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Ty Schreiner		
CLIENT PROJECT:	Cornet Bay		

LABORATORY BLANK RESULTS

MBG-042814S - Batch 81272 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	04/28/2014	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-043014S - Batch 81448 - Soil by NWTPH-DX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	04/30/2014	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	04/30/2014	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

MB-050514S - Batch 81573 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Chloromethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Vinyl Chloride	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Bromomethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Chloroethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Carbon Disulfide	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Acetone	EPA-8260	U	50	1	ug/Kg	05/05/2014	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Methylene Chloride	EPA-8260	U	20	1	ug/Kg	05/05/2014	GAP
Acrylonitrile	EPA-8260	U	50	1	ug/Kg	05/05/2014	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
2-Butanone	EPA-8260	U	50	1	ug/Kg	05/05/2014	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Bromochloromethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Chloroform	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Benzene	EPA-8260	U	5.0	1	ug/Kg	05/05/2014	GAP
Trichloroethene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP



CERTIFICATE OF ANALYSIS

CLIENT: Kennedy/Jenks Consultants
32001 - 32nd Ave S., Suite 100
Federal Way, WA 98001

DATE: 5/5/2014
ALS SDG#: EV14040170
WDOE ACCREDITATION: C601

CLIENT CONTACT: Ty Schreiner
CLIENT PROJECT: Cornet Bay

LABORATORY BLANK RESULTS

MB-050514S - Batch 81573 - Soil by EPA-8260

1,2-Dichloropropane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Dibromomethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Bromodichloromethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	ug/Kg	05/05/2014	GAP
Toluene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
2-Hexanone	EPA-8260	U	50	1	ug/Kg	05/05/2014	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Tetrachloroethylene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Dibromochloromethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	ug/Kg	05/05/2014	GAP
Chlorobenzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Ethylbenzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
m,p-Xylene	EPA-8260	U	20	1	ug/Kg	05/05/2014	GAP
Styrene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
o-Xylene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Bromoform	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Isopropylbenzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Bromobenzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
N-Propyl Benzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
2-Chlorotoluene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
4-Chlorotoluene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
T-Butyl Benzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
S-Butyl Benzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
N-Butylbenzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	ug/Kg	05/05/2014	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
Naphthalene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP



CERTIFICATE OF ANALYSIS

CLIENT: Kennedy/Jenks Consultants DATE: 5/5/2014
 32001 - 32nd Ave S., Suite 100 ALS SDG#: EV14040170
 Federal Way, WA 98001 WDOE ACCREDITATION: C601

CLIENT CONTACT: Ty Schreiner
 CLIENT PROJECT: Cornet Bay

LABORATORY BLANK RESULTS

MB-050514S - Batch 81573 - Soil by EPA-8260

1,2,3-Trichlorobenzene	EPA-8260	U	10	1	ug/Kg	05/05/2014	GAP
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U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: Kennedy/Jenks Consultants
 32001 - 32nd Ave S., Suite 100
 Federal Way, WA 98001

DATE: 5/5/2014
 ALS SDG#: EV14040170
 WDOE ACCREDITATION: C601

CLIENT CONTACT: Ty Schreiner
 CLIENT PROJECT: Cornet Bay

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 81272 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	67.8			04/28/2014	DLC
TPH-Volatile Range - BSD	NWTPH-GX	68.8	1		04/28/2014	DLC

ALS Test Batch ID: 81448 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	83.1			04/30/2014	EBS
TPH-Diesel Range - BSD	NWTPH-DX	92.5	11		04/30/2014	EBS

ALS Test Batch ID: 81573 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - BS	EPA-8260	132			05/05/2014	GAP
1,1-Dichloroethene - BSD	EPA-8260	130	2		05/05/2014	GAP
Benzene - BS	EPA-8260	95.2			05/05/2014	GAP
Benzene - BSD	EPA-8260	90.2	5		05/05/2014	GAP
Trichloroethene - BS	EPA-8260	92.0			05/05/2014	GAP
Trichloroethene - BSD	EPA-8260	87.9	5		05/05/2014	GAP
Toluene - BS	EPA-8260	87.4			05/05/2014	GAP
Toluene - BSD	EPA-8260	82.4	6		05/05/2014	GAP
Chlorobenzene - BS	EPA-8260	107			05/05/2014	GAP
Chlorobenzene - BSD	EPA-8260	102	5		05/05/2014	GAP

APPROVED BY

Laboratory Director



ALS Environmental
 8620 Holly Drive, Suite 100
 Everett, WA 98208
 Phone (425) 356-2600
 Fax (425) 356-2626
 http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV14040170

Date _____ Page _____ Of _____

PROJECT ID: REPORT TO COMPANY: PROJECT MANAGER: ADDRESS: PHONE: P.O. #: INVOICE TO COMPANY: ATTENTION: ADDRESS:	ANALYSIS REQUESTED				OTHER (Specify)	
	SAMPLE I.D.	DATE	TIME	TYPE	LAB#	
CORNET BAY KENNEDY JEWELS TY SCHIZIERER 32001 32 RD AVE. S. SK100 Federal Way WA 253 835 6400 1396010.00 E-MAIL: Ty.Schizierer@KennedyJewels.com Sarae	1. AOS-25-12	4/30	1330	soil		
	2.					
	3.					
	4.					
	5.					
	6.					
	7.					
	8.					
	9.					
	10.					

ANALYSIS REQUESTED

NWTPH-HCID
 NWTPH-DX
 NWTPH-GX
 BTEX by EPA-8021
 MTBE by EPA-8021 EPA-8260
 Halogenated Volatiles by EPA 8260
 Volatile Organic Compounds by EPA 8260
 EDB / EDC by EPA 8260 SIM (water)
 EDB / EDC by EPA 8260 (soil)
 Semivolatile Organic Compounds by EPA 8270
 Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM
 PCB Pesticides by EPA 8081/8082
 Metals-MTCA-5 RCRA-8 Pfl Pol TAL
 Metals Other (Specify)
 TCLP-Metals VOA Semi-Vol Pest Herbs

RECEIVED IN GOOD CONDITION? _____

NUMBER OF CONTAINERS _____

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):
 Relinquished By: Josef Fisker 4/30/14 4:35
 Received By: Shawn Robinson ALS 4/30/14 4:35
 Relinquished By: _____
 Received By: _____

TURNAROUND REQUESTED in Business Days*
 OTHER: Specify: Due Monday 5/5/14

Organic, Metals & Inorganic Analysis
 10 Standard
 5
 2
 1
 SAME DAY

Fuels & Hydrocarbon Analysis
 5 Standard
 3
 1
 SAME DAY

* Turnaround request less than standard may incur Rush Charges

Appendix L

Weekly Progress Reports

WEEKLY PROGRESS REPORT
CORNET BAY MARINA REMEDIATION (2013)
Whidbey Island, Island County, WA
No. 1 12/17/2013

Dial in #: 866-548-4157
Call ID#: 16-54-62-10-71

1. INVITED ATTENDEES: Jing Liu, Brian Sato, Luis Buen Abad, Lauren Miles-Golemblewski, Alan Hall, Ty Schreiner, Dick Guglomo, Jarod Fisher
2. CONSTRUCTION SUMMARY AND ACTION ITEMS:

MOBILIZATION

1. **Construction Completed/To Complete This Week:**
 - a. Glacier onsite Monday with 4 personnel. API utility locate performed. Pre-existing conditions video documented.
 - b. Equipment onsite as of Tuesday includes: excavator, fork lift, bobcat.
 - c. Trailers scheduled to arrive Wed-Thurs.
 - d. Internet and other setup
2. **Observations / As-built:**
3. **Next Week Construction:**
 - a. Glacier will install assembled project signs provided by KJ later this week.

SITE SECURITY

1. **Construction Completed/To Complete This Week:**
 - a. Chain link fence installed around the construction area per drawing C2 with temporary parking/access on the west side for visitors.
 - b. Complete sign installation tomorrow for access points and construction.
2. **Observations / As-built:**
3. **Next Week Construction:**

TESC

1. **Construction Completed/To Complete This Week:**
 - a. Silt fence installed along the west and east sides per detail on C3.
2. **Observations / As-built:**
 - a. Silt fence arrangement on the east side adjusted for existing conditions (see Glacier action items below).
3. **Next Week Construction:**
 - a. Install boom?

DEMOLITION

1. **Construction Completed/To Complete This Week:**
 - a. Septic tanks pumped Monday.
 - b. Began demolishing garbage shed fence Tuesday. Complete later this week.
 - c. Begin removing State Park creosote wood posts.
2. **Observations / As-built:**
3. **Next Week Construction:**
 - a. Continue demolition per Plan of Operations and Project Manual

STORE RELOCATION

1. **Construction Completed/To Complete This Week:**
 - a. Building contents packaged over the weekend by Randy.
 - b. Glacier copied marked boxes inventory and marked.
 - i. Movers to relocate perishables to Oak Harbor storage and conex trailer and cooler to be relocated Wed-Fri.
 - c. Carpenter subs scheduled to begin bracing Friday.
2. **Observations / As-built:**
 - a. Dundee requests SE shower not be reinstalled. Will use room for storage only.
 - b. Dundee requests garbage area connex shed be relocated to his house.
3. **Next Week Construction:**
 - a. Complete bracing
 - b. Moving subs mobilize to site?

Glacier Action Item

1. Need to submit following Plans:
 - a. TESC
 - i. Include erosion protection map and changes
 - ii. Include CESCL documents
 - b. SWPPP
 - c. Operations Plan
 - i. Include detailed plans for all construction; bldg bracing, competent persons for shoring, etc.
2. Need to add to submitted plans when available:
 - a. EPP – Section 10.1, transporter has not been determined.
 - b. SSHP – Section XVIIIIC 3, KJ on-site coordinator contact info needed.
 - c. QCP – Section 2.0 Mech and Electrical testing has not been determined.
3. Need to generate RFIs (see section 01 26 13 for clarification) for following questions:
 - a. Well details near bulkhead
 - b. Sheet pile inspection requirements
 - c. Survey NADV88 discrepancy
 - d. Cut and fill in wetland mitigation area
4. List of any submittals proposed to be grouped together

KJ Action Item

1. SDRLs
2. RFI Responses
- 3.

Ecology Action Item

1. Transfer Stormwater Permit to Glacier

Progress Quantities

Approx. Cross Sections Excavated	Approx. Cross Sections Remaining	Estimated Impacted Soils Excavated	Estimated Clean Soils Excavated	Backfill Completed (Tons)	Treated Water Discharged (Gal)

		(Tons)	(Tons)		
NA	NA	NA	NA	NA	NA

3. **SAFETY:**

- Weather: **snow/sleet/hail/rain = slick surfaces!** Cold weather
- Darker in the morning.
- Staging materials – safely and securely, safe egress/access. General housekeeping, etc.
- Securing open excavations, holes, and general construction areas during the day, night, and weekends.
- Shoring trenches and providing appropriate egress/access points. Designated competent persons.
- Following confined space work protocols monitoring air and providing ventilation if needed.

4. **SCHEDULE:**

- a. Approximate 2 week look ahead – To be discussed.
- b.

5. **REGULATORY CONCERNS**

- a.

6. **RFI/SUBMITTALS/RFP:**

- a. Status of RFIs: -
- b. Status of Submittals:
 - i. #2 SOV – in review
 - ii. #3 Prelim Schedule - AR
 - iii. #15 Environmental, SPCC, Selected Disposal Facilities - AR
 - iv. #16 SOS – AR
 - v. #17 SSHP – AR
 - vi. #83 Sheet Pile – NET, need copy of data sheet for physical properties. Can label #83-1.
- c. RFPs/Claims/WCDs: -

7. **BILLING:**

8. **OTHER ISSUES:**

- a.

WEEKLY PROGRESS REPORT
CORNET BAY MARINA REMEDIATION (2013)
Whidbey Island, Island County, WA
No. 2 01/02/2013

Dial in #: 866-548-4157
Call ID#: 16-54-62-10-71

1. INVITED ATTENDEES: Jing Liu, Brian Sato, Luis Buen Abad, Lauren Miles-Golembewski, Eric Hay, Alan Hall, Ty Schreiner, Dick Guglomo, Jarod Fisher
2. CONSTRUCTION SUMMARY AND ACTION ITEMS:

MOBILIZATION

- Job trailers onsite – internet and phone set up scheduled for next week.
- Crane onsite and tested for certification after transport.

SITE SECURITY

- Chain link fence increased on west end and temporary parking reduced to approx. size on drawings.

TESC

- Silt boom placed west to east across construction area. East side captures storm water discharge pipe and boom runs against the main dock. Silt boom placed in wetland area on west side and captures storm water discharge.

DEMOLITION

- Marina store south side sheds and bathroom extension demolished. Garbage/used oil storage area fence and shed demolished.

STORE RELOCATION

- Building move completed Tuesday to State Park. Currently supported on cribbing approximately 3 feet above ground. Ground consists of wheel compacted 2-4 inch rock.

TEMPORARY DOCK ACCESS

- Temporary dock access set up with floating dock connection piece. Old dock secured against access with orange construction fence.

BULKHEAD SHEET PILE

- 2 loads (10 sheets) of 50' sheet pile onsite.
- Dawson welding I-beam sheet pile jig completed.

Glacier Action Item

1. Need to submit following Plans:
 - a. TESC
 - i. Include erosion protection map and changes
 - ii. Include CESCL documents
 - b. SWPPP
 - c. Operations Plan
 - i. Include detailed plans for all construction; bldg bracing, competent persons for shoring, etc.
2. Need to add to submitted plans when available:
 - a. EPP – Section 10.1, transporter has not been determined.
 - b. SSHP – Section XVIIIIC 3, KJ on-site coordinator contact info needed.
 - c. QCP – Section 2.0 Mech and Electrical testing has not been determined.

KJ Action Item

1. SDRLs
2. RFI Responses
- 3.

Ecology Action Item

- 1.

Progress Quantities

Approx. Cross Sections Excavated	Approx. Cross Sections Remaining	Estimated Impacted Soils Excavated (Tons)	Estimated Clean Soils Excavated (Tons)	Backfill Completed (Tons)	Treated Water Discharged (Gal)
NA	NA	NA	NA	NA	NA

3. SAFETY:

- Weather: **snow/sleet/hail/rain = slick surfaces!** Cold weather
- Darker in the morning.
- Staging materials – safely and securely, safe egress/access. General housekeeping, etc.
- Securing open excavations, holes, and general construction areas during the day, night, and weekends.
- Shoring trenches and providing appropriate egress/access points. Designated competent persons.
- Following confined space work protocols monitoring air and providing ventilation if needed.

4. SCHEDULE: Approx. 2 week look ahead

- a. Begin sheet pile driving Monday
- b. Begin water treatment plant setup
- c. Begin wetland work

5. REGULATORY CONCERNS

- a.

6. RFI/SUBMITTALS/RFP:

- a. Status of RFIs:

- i. RFI 001 – Sheet pile inspector requirements. Review completed, response in to Alan
 - ii. RFI 002 – Bulkhead drain well details. Review completed, response in to Alan
 - iii. RFI 003 – Survey discrepancy. Review completed, response in to Alan
 - iv. RFI 004 – Power relocation. In Review.
- b. Status of Submittals:
 - i. #2 SOV – AR
 - ii. #3 Prelim Schedule - NET
 - iii. #15 Environmental, SPCC, Selected Disposal Facilities - NET
 - iv. #16 SOS – NET
 - v. #17 SSHP – NET
 - vi. #83 Sheet Pile – NET, need copy of data sheet for physical properties. Can label #83-1.
 - vii. #93 Water Quality Control Plan – in review
 - viii. #26 Backfill Sieve/Analytical – in review
 - ix. #21 Surveyor Qualifications – in review
 - x. #23 Analytical Lab Qualifications – in review
 - xi. #34 Structure moving plan – NET
 - xii. #12 Bulkhead construction plan – in review
- c. RFPs/Claims/WCDs: -

7. BILLING:

8. OTHER ISSUES:

- a. See clarification letter #1 – bulkhead lineal feet increase requirement.

WEEKLY PROGRESS REPORT
CORNET BAY MARINA REMEDIATION (2013)
Whidbey Island, Island County, WA
No. 3 01/08/2014

Dial in #: 866-548-4157
Call ID#: 16-54-62-10-71

1. INVITED ATTENDEES: Jing Liu, Brian Sato, Luis Buen Abad, Lauren Miles-Goleblewski,
Eric Hay, Alan Hall, Jy Schreiner, Dick Guglomo, Jarod Fisher *2*

2. CONSTRUCTION SUMMARY AND ACTION ITEMS:

MOBILIZATION

- Slead mobilized onsite to build dewatering system *Be mindful of sleet, keep onsite*
- Clear Creek mobilizing onsite to assemble water treatment system
- Internet & Phone today.

SITE SECURITY

- Temporarily redirecting marina foot traffic through access point and to main dock while Slead builds dewatering wells.

[BRIAN] whisper generators are fine upon site visit.
TESC *[Luis/Jing] QUESTIONS but OK. Need. Document Db Property line & [AIAN] Access st. @ 25' to 75db*

- Oil absorbent boom placed inside of silt boom and additional orange boom placed behind silt boom on east side to further protect against silt run-off during low tide.
- Stray waddles placed at 'boat ramp' on east side in front of and behind silt fence.
- *[Luis] Any issues during High TIDES? No, depths good. More issues low tides, Additional waddles boom placed.*

DEMOLITION/SALVAGE

- Shell sign salvaged.
- Additional concrete demolished and removed from site. *Concrete Northwest for recycle*
- *Thermax in today & removed ACM floor*

STORE RELOCATION

- Visqueen installed around building for vapor barrier.
- *Heater in today, [AIAN]*

TEMPORARY DOCK ACCESS

- Temporary dock access redirected to main dock while Slead installs dewatering system on west side

BULKHEAD SHEET PILE

- 53 sheet pile onsite (each pile consists of an interlocking pair. *1 load onsite =*
- 12 sheet piles installed: 2 on west face and 10 on north face from NW corner. Pile installed to height of jig until it is move. Will then be driven to elevation 13.5'.

WATER TREATMENT PLANT

- Clear Creek onsite with two 40' frac tanks, control unit, 2 GAC units, 3 sand filters, and Cita sand filter.
- Slead onsite with one drill rig, pump, and piping components to begin installing dewatering wells and later abandon monitoring wells.

Glacier Action Item

1. Need to submit following Plans:
 - a. TESC [LOANERS] DONE, TOMORROW
 - i. Include erosion protection map and changes
 - ii. Include CESCL documents
 - b. SWPPP TOMORROW / FRIDAY
 - c. Operations Plan EXCAVATION / BACKFILL PLAN
 - i. Include detailed plans for all construction; bldg bracing, competent persons for shoring, etc.
 - d. No. 84 - Sheet Pile Mill Certs? ON THEIR WAY.
 - e. No. 19 - Dewatering and Water Treatment Plan
 - f. No. 18 and 22 (Redundant) - Identify competent persons, including certifications and roles.
 - g. No. 25 - Material Testing Lab Qualifications. Note: this can be included with submittals for material if provided on proctors. CHECK W/ GEOTEST QUALIFICATIONS.
 - h. No. 35 - Excavation, Transportation, and Disposal Plan
2. Need to add to submitted plans when available: No. 15
 - a. EPP - Section 10.1, transporter has not been determined.
 - b. SSHP - Section XVIIIIC 3, KJ on-site coordinator contact info needed.
 - c. QCP - Section 2.0 Mech and Electrical testing has not been determined.
3. RFIR Responses
4. Quote for Clarification Letter No. 1. End of week / next week.

Picked out

KJ Action Item

1. SDRLs
2. RFI Responses - None
3. List of monitoring wells to be abandoned

Ecology Action Item

NORWEST PIT IS OLD ISLAND, 5 mi from site.

1. Pit Run analytical. CAN EC ASK STRIDERT? [JING/BRIMS will follow-up]

Progress Quantities

Approx. Cross Sections Excavated	Approx. Cross Sections Remaining	Estimated Impacted Soils Excavated (Tons)	Estimated Clean Soils Excavated (Tons)	Backfill Completed (Tons)	Treated Water Discharged (Gal)
NA	NA	NA	NA	NA	NA

3. SAFETY:

- Weather: snow/sleet/hail/rain = slick surfaces! Cold weather
- Darker in the morning.
- Staging materials - safely and securely, safe egress/access. General housekeeping, etc.
- Securing open excavations, holes, and general construction areas during the day, night, and weekends.
- Shoring trenches and providing appropriate egress/access points. Designated competent persons.
- Following confined space work protocols monitoring air and providing ventilation if needed.

4. **SCHEDULE:** Approx. 2 week look ahead

- a. Complete sheet pile along north face in 2.5 weeks
- b. Temporary power shut off Monday - Tuesday
- c. Dewatering well system and treatment plant operation. Testing for NPDES
- d. Begin wetland excavation
- e. Begin partial excavation

{ 32 hours training for WTP systems.
Running 24/7 by Tuesday.

5. **REGULATORY CONCERNS**

- a. Need to add ¹⁵ permit comments.

{ [Brent] when decommissioning? Tomorrow/Friday
[Cameron] Do we have a way to determine draw down?

6. **RFI/SUBMITTALS/RFP:**

- a. Status of RFIs:

- i. RFI 001 - Sheet pile inspector requirements. Review completed, response in to GES
- ii. RFI 002 - Bulkhead drain well details. Review completed, response in to GES.
- iii. RFI 003 - Survey discrepancy. Review completed, response in to GES.
- iv. RFI 004 - Power relocation. Review completed, response in to GES.

[?] Not to dewater excavation, keep bay out.

- b. Status of Submittals:

- i. #2 SOV - NET
- ii. #3 Prelim Schedule - NET
- iii. #15 Environmental, SPCC, Selected Disposal Facilities - NET
- iv. #16 SOS - NET
- v. #17 SSHP - MCNR
- vi. #83, 83.1, and 83.2 Sheet Pile - NET
- vii. #93 Water Quality Control Plan - in review. HAVE USIS LOOK AT
- viii. #26 Backfill Sieve/Analytical - in review
- ix. #21 Surveyor Qualifications - in review NET
- x. #23 Analytical Lab Qualifications - in review UPDATED FOR 2014
- xi. #34 Structure moving plan - NET
- xii. #12 Bulkhead construction plan - NET

- c. RFPs/Claims/WCDs: - MSE WCD - in review

7. **BILLING:**

- a. No Progress Payment yet.

8. **OTHER ISSUES:**

- a. See clarification letter #1 - bulkhead lineal feet increase requirement.

- b. NPDES reporting requirements. GES P: [?] where Turbidity / Ph samples taken? [also] NO.

- c. Forego Dioxin/Furans for top soil only? 30 day

- Online as Paper Monthly Report required, weekly basis
- Have 15th to upload.
- FINALIZE SWPPP in next couple days & adapt. wcd?

**WEEKLY PROGRESS REPORT
CORNET BAY MARINA REMEDIATION (2013)**

Whidbey Island, Island County, WA

No. 4 01/15/2014

Dial in #: 866-548-4157

Call ID#: 16-54-62-10-71

1. INVITED ATTENDEES: Jing Lin, Brian Sato, Luis Buen Abad, Lauren Miles-Goleblewski, Eric Hay, Alan Hall, Ty Schreiner, Dick Guglomo, Jarod Fisher

2. CONSTRUCTION SUMMARY AND ACTION ITEMS:

MOBILIZATION

- S&M Electrical onsite to re-install Main Power Panel

SITE SECURITY

- Trench across driveway access to office trailers for dewatering header. Caution tape placed on metal stakes around trench.

TESC

- Turbidity samples measured on west side (wetland area), in front of sheet pile work (approx. main dock area), and on the east side. GES will take weekly turbidity samples on ends and daily samples in front of sheet pile work.

TAKEN IN WETLAND POND & ALSO OUT FROM SHORELINE PASS FROM DOCK.

(ALAN) USING 10' LONG POLE

Wetland Area	Front of Working Sheet Pile	Storm Water Outlet (East)
Background = 3.96	Background = 2.34	Background = 3.77
Sample = 6.53	Sample = 2.32	Sample = 2.90

BACKGROUND TAKEN 100' OUT.

DEMOLITION/SALVAGE

- Main dock connection to wood bulkhead.

STORE RELOCATION

- Two 1500 watt forced air heaters installed inside building.

TEMPORARY DOCK ACCESS

- Temporary dock access re-directed back to regular temporary location on west side beyond chain fence.

BULKHEAD SHEET PILE

- 34 sheet pile installed – east of main dock access.
- Each pile checked for elevation, lean, tilt, and distance from bulkhead wall.
- 3 things contributing to pile adjustment away from wall: wood wall bows in, new main dock corner location, wood wall bowing out. Adjusted on east side of main dock 1-inch further out and will be 3-inches further out until reaching next corner adjustment.

SPECS OR GEOTEC FOR WT NEXT TO WALL!

WATER TREATMENT PLANT

- Clear Creek to complete WTP setup today.

- Slead completed dewatering wells with headers. GES completed connecting pipe and providing pump and developing wells. May have online today or tomorrow.

Glacier Action Item

- Abandon wells Fri. Measure table in wells 10/10*
1. Need to submit following Plans:
 - a. TESC
 - i. Include erosion protection map and changes
 - ii. Include CESCL documents
 - b. No. 84 - Sheet Pile Mill Certs?
 - c. No. 19 – Dewatering and Water Treatment Plan →
 - d. No. 18 and 22 (Redundant) – Identify competent persons, including certifications and roles.
 - e. No. 25 – Material Testing Lab Qualifications. Note: this can be included with submittals for material if provided on proctors.
 - f. No. 35 – Excavation, Transportation, and Disposal Plan → *ID OPERATIONS PLAN*
 2. Need to add to submitted plans when available: No. 15
 - a. EPP – Section 10.1, transporter has not been determined.
 - b. SSHP – Section XVIIIIC 3, KJ on-site coordinator contact info needed.
 - c. QCP – Section 2.0 Mech and Electrical testing has not been determined.
 3. RFIR Responses
 4. Breakdown costs for Dawson to install additional 25 feet of sheet pile wall. *Material labor*
 5. Costs to haul away ND excavated soil not suitable for reuse and Class II soils not suitable for reuse. *Fill ONLY @ CONC. DO NOT USE NO Resale*

KJ Action Item

- GET ANALYTICAL NEXT TO RD*
1. SDRLs
 2. RFI Responses – MSE wall deletion
 3. *Follow up w/ Analytical Review add TPH analysis.*

Ecology Action Item

- 1.

Progress Quantities

Approx. Cross Sections Excavated	Approx. Cross Sections Remaining	Estimated Impacted Soils Excavated (Tons)	Estimated Clean Soils Excavated (Tons)	Backfill Completed (Tons)	Treated Water Discharged (Gal)
NA	NA	NA	NA	NA	NA

3. SAFETY:

- Weather: **snow/sleet/hail/rain = slick surfaces!** Cold weather
- Darker in the morning.
- Staging materials – safely and securely, safe egress/access. General housekeeping, etc.
- Securing open excavations, holes, and general construction areas during the day, night, and weekends.
- Shoring trenches and providing appropriate egress/access points. Designated competent persons.

- Following confined space work protocols monitoring air and providing ventilation if needed.
- Wooden bulkhead wall bowing and settling cracks occurring with trailer rig and vibration driving. GES Placed 1-inch thick steel plates under crane outrigger and trailer to help displaced weight and stabilize.

4. **SCHEDULE:** Approx. 2 week look ahead

- Complete sheet pile along north face in 2 weeks → Next week.
 - Dewatering well system and treatment plant operation. Testing for NPDES
 - Begin wetland excavation → mid next week.
 - Begin partial excavation → last week Jan (27th-29th).
- Handwritten notes:* Add new sheets potentially here end of week. 2-3 days assist.

5. **REGULATORY CONCERNS**

- Building permits 3 of 4 on website. Permit one includes hand written notes on drawings.

6. **RFI/SUBMITTALS/RFP:**

- Status of RFIs:
 - RFI 001 – Sheet pile inspector requirements. Review completed, response in to GES
 - RFI 002 – Bulkhead drain well details. Review completed, response in to GES.
 - RFI 003 – Survey discrepancy. Review completed, response in to GES.
 - RFI 004 – Power relocation. Review completed, response in to GES.
 - RFI 005 – Removal of MSE wall from design. In review.
- Status of Submittals:
 - #2 SOV – NET
 - #3 Prelim Schedule - NET
 - #15 Environmental, SPCC, Selected Disposal Facilities - NET
 - #16 SOS – NET
 - #17 SSHP – MCNR
 - #83, 83.1, and 83.2 Sheet Pile – NET
 - #93 Water Quality Control Plan – NET
 - #26 Backfill Sieve/Analytical – A&R
 - #21 Surveyor Qualifications – NET
 - #23 Analytical Lab Qualifications – MCNR
 - #34 Structure moving plan – NET
 - #12 Bulkhead construction plan – NET
 - #13 Plan of Operations – in review
 - #29 SWPPP – in review *Send to Tj & Sig. No comments from*
- RFPs/Claims/WCDs: -

7. **BILLING:**

- First progress payment received from GES to KJ.

8. **OTHER ISSUES:**

- See clarification letter #1 – bulkhead lineal feet increase requirement.
- NPDES reporting requirements – DMR mailed yesterday. GES setting up new Web account. pH measurements? *For treatment discharge only.*

WEEKLY PROGRESS REPORT
CORNET BAY MARINA REMEDIATION (2013)
Whidbey Island, Island County, WA
No. 5 01/22/2014

Dial in #: 866-548-4157
Call ID#: 16-54-62-10-71

1. INVITED ATTENDEES: Jing Liu, Brian Sato, Luis Buen Abad, Lauren Miles-Golemblewski, Eric Hay, Alan Hall, Ty Schreiner, Dick Guglomo, Jarod Fisher

2. CONSTRUCTION SUMMARY AND ACTION ITEMS:

MOBILIZATION

- Water Treatment Plant setup and dewatering setup complete.

SITE SECURITY

- Trench across driveway access to office trailers for dewatering header. Caution tape placed on metal stakes around trench. 1-inch thick metal sheet across trench for vehicle access/parking at job trailers.

TESC

- Turbidity samples measured on west side (wetland area), in front of sheet pile work (approx. main dock area), and on the east side. GES will take weekly turbidity samples on ends and daily samples in front of sheet pile work.

Wetland Area	Front of Working Sheet Pile	Storm Water Outlet (East)
Background = 3.96 3.65	Background = 2.34 2.34	Background = 3.77 2.37
Sample = 6.53 2.74	Sample = 2.32 1.13	Sample = 2.90 2.33

DEMOLITION/SALVAGE

[JF] SEE RFP GES ACTION ITEM BELOW

- Main dock connection to wood bulkhead. Main dock remaining is sagging due to wood beams that appear to be inside construction beams, i.e. not pressure treated.

STORE RELOCATION

- Two 1500 watt forced air heaters installed inside building.

TEMPORARY DOCK ACCESS

- Temporary dock access re-directed back to regular temporary location on west side beyond chain fence.

BULKHEAD SHEET PILE

- 74 sheet pile installed – around east corner.
- Each pile checked for elevation, lean, tilt, width from interlocking joint per pair, and distance from bulkhead wall.
- 3 things contributing to pile adjustment away from wall: wood wall bows in, new main dock corner location, wood wall bowing out. Adjusted on east side of main dock 1-inch further out and will be 3-inches further out until reaching next corner adjustment.

- New bulkhead is approximately 5.5 feet short of surveyed marker point. This is likely due to sheet pile pairs compressing in at the joint when Dawson did not use a spreader bar during initial installation. The first 25 sheet pile pairs average less than 4.5 feet from joint to joint when shop drawing dimensions show 4.6 feet. Some pairs were 4'-0" in width. Dawson wants to continue installing sheet pile using the 6 sheets of AZ26 that are onsite for the 25 foot increase of the wall along the east end. Structural calculations are being performed to confirm that the AZ26 sheet is acceptable to be installed in this location with approximate 7.5' elevation of soil behind the wall. Dawson's quote for the required 25' included sheet pile length to 27' since 25' could not be achieved. The estimated end of wall appears that it will be approximately 3-4 feet shorter but adequate to support the soil and protect from high tides.
- Embedment depths of sheet pile 58-74 are hitting embedment depths of 18-20 feet and may be hitting bedrock. Any resolution for not hitting -33 tip elevation may take a minimum of 2 days or up to 1.5 weeks.

END OF SHEET PILE 2' SHORT OF WOOD BULKHEAD.
 APPEARS OKAY. NO RESPONSE FROM STRUCTURAL
 BY END OF DAY, WAS NOT ABLE TO COMPLETE CALCS.

WATER TREATMENT PLANT

- Setup complete
- Clear Creek trained Glacier employees.
- Still developing wells and having trouble recovering water due to clay. Not running treatment plant or discharging.
- 2 sump wells installed in the SW corner of construction area: 1 to 18' depth and 1 to 16' depth. Both have screened intervals of 3.5'. The 18' well further north was predominantly clay while the 16' well was clay to 8' depth then mixed clay/sand.

Glacier Action Item

1. Need to submit following Plans:
 - a. No. 19 – Dewatering and Water Treatment Plan
2. RFIR Responses
3. Breakdown costs for Dawson to install additional 25 feet of sheet pile wall.
4. Costs to haul away ND excavated soil not suitable for reuse and Class II soils not suitable for reuse. Submit as RFI and include intended method of payment.
5. Stainless steel fence substitute and cost. Submit as RFI.
6. Need RFI or other document to establish poor condition of ice shed secondary floor and out of scope work if necessary to replace secondary floor.
7. Need RFP to discuss condition of remaining main dock rotted beams, proposed solution, and cost.

KJ Action Item

1. SDRLs – see below
2. RFIR 005 – MSE wall deletion. RFIR #S COMPLETED BUT MAY NOT HAVE BEEN DISTRIBUTED.
3. Suitability of using AZ26 at 7.5' soil elevation
4. Final sheet pile wall end on eastside satisfactory? 2' SHORT, APPEARS OKAY.

Ecology Action Item

1. Final sheet pile wall end on eastside satisfactory?

Progress Quantities					
Approx. Cross Sections Excavated	Approx. Cross Sections Remaining	Estimated Impacted Soils Excavated (Tons)	Estimated Clean Soils Excavated (Tons)	Backfill Completed (Tons)	Treated Water Discharged (Gal)
NA	NA	NA	NA	NA	NA

3. SAFETY:

- Weather: **snow/sleet/hail/rain = slick surfaces!** Cold weather
- Darker in the morning.
- Staging materials – safely and securely, safe egress/access. General housekeeping, etc.
- Securing open excavations, holes, and general construction areas during the day, night, and weekends.
- Shoring trenches and providing appropriate egress/access points. Designated competent persons.
- Following confined space work protocols monitoring air and providing ventilation if needed.
- Wooden bulkhead wall bowing and settling cracks occurring with trailer rig and vibration driving. GES Placed 1-inch thick steel plates under crane outrigger and trailer to help displaced weight and stabilize.

4. SCHEDULE: Approx. 2 week look ahead

- a. Complete bulkhead installation tomorrow
- b. Dewatering well system and treatment plant operation. Testing for NPDES
- c. Begin wetland excavation **MONDAY, 5 DAYS ESTIMATED.**
- d. Begin partial excavation

5. REGULATORY CONCERNS

- a. Building permits 3 of 4 on website. Permit one includes hand written notes on drawings.

6. RFI/SUBMITTALS/RFP:

- a. Status of RFIs:
 - i. RFI 001 – Sheet pile inspector requirements. Review completed, response in to GES
 - ii. RFI 002 – Bulkhead drain well details. Review completed, response in to GES.
 - iii. RFI 003 – Survey discrepancy. Review completed, response in to GES.
 - iv. RFI 004 – Power relocation. Review completed, response in to GES.
 - v. RFI 005 – Removal of MSE wall from design. Review completed, response in to GES.
- b. Status of Submittals:
 - i. #2 SOV – NET
 - ii. #3 Prelim Schedule - NET
 - iii. #15 Environmental, SPCC, Selected Disposal Facilities - NET
 - iv. #16 SOS – NET
 - v. #17R1 SSHP – in review
 - vi. #83, 83.1, and 83.2 Sheet Pile – NET
 - vii. #93 Water Quality Control Plan – NET
 - viii. #26R1 Backfill Sieve/Analytical – in review
 - ix. #21 Surveyor Qualifications – NET
 - x. #23 Analytical Lab Qualifications – MCNR
 - xi. #34 Structure moving plan – NET
 - xii. #12 Bulkhead construction plan – NET

- xiii. #13 Plan of Operations – in review
- xiv. #29 SWPPP – in review
- xv. #20R1 Quality Control Plan – in review
- xvi. #5 Submittal of intent to pay prevailing wages – in review
- xvii. #24 Material testing laboratory Qualifications – in review
- xviii. #84 Sheet Pile Mill Certs – in review
- xix. #45 Welder Certifications – in review
- xx. #73 Import Material Proctor and Sieve Analysis – in review

c. RFPs/Claims/WCDs:

SEE RFP IN GES ACTION ITEM ABOVE.

7. BILLING:

- a. KJ provided Engineer's Recommendation for Payment for Application for Payment No.1. → Joe Ward back Thurs to review & Approve

8. OTHER ISSUES:

- a. See clarification letter #1 – bulkhead lineal feet increase requirement.

BRIAN

- STILL SHEEN ON WATER? YES
- POSSIBLE TO TIGHTEN BOOM? YES, WILL TRY.
- ANY FURTHER SETTLEMENT OF SOIL/WOOD BULKHEAD NOTICED? - NO
- WATER LINE NEAR VAULT & ODOR? YES, @ APPROX. 18" depth.

TY

- DETERMINE PROPERTY LINE FOR CHASING CONTAMINANTS.
- BEGIN LOOKING INTO PROCESS OF EXCAVATING INTO ROADWAY & ISLAND COUNTY REQUIREMENTS.

WEEKLY PROGRESS REPORT
CORNET BAY MARINA REMEDIATION (2013)
 Whidbey Island, Island County, WA
 No. 6 01/29/2014

Dial in #: 866-548-4157
 Call ID#: 16-54-62-10-71

1. INVITED ATTENDEES: Jing Liu, Brian Sato, Luis Buen Abad, Lauren Miles-Golemblewski, Eric Hay, Alan Hall, Ty Schreiner, Dick Guglomo, Jarod Fisher
2. CONSTRUCTION SUMMARY AND ACTION ITEMS:

MOBILIZATION

- Water Treatment Plant setup and dewatering-setup complete.

SITE SECURITY

- NA

TESC

- Turbidity samples measured on west side (wetland area), in front of sheet pile work (approx. main dock area), and on the east side. GES will take weekly turbidity samples on ends and daily samples in front of sheet pile work.

Wetland Area	Front of Working Sheet Pile	Storm Water Outlet (East)
Background =	Background =	Background =
Sample =	Sample =	Sample =

*little turbidity now w/ rain.
 waddles of boats, capturing prior to water.*

DEMOLITION/SALVAGE

- NA

STORE RELOCATION

- NA

TEMPORARY DOCK ACCESS

- NA

BULKHEAD SHEET PILE

- 80 sheet pile installed – sheet pile No. 1 through 74 are AZ38-700N. Sheet pile No. 75 through 80 are AZ26-700N.
- Each pile checked for elevation, lean, tilt, width from interlocking joint per pair, and distance from bulkhead wall.
- Sheet Pile No. 56 through 74 (east corner) could not be driven to -33 feet tip elevation depth. Sitt's & Hill to provide solutions to further secure bulkhead in this area if needed.
- **MAKE AWARE WATERSLIDE SCOPE.** S&H Response by next week. *3 weeks to excavation area approx.*

WATER TREATMENT PLANT

- Setup complete *TANK & 1/4 tank now. @ 1.5 may operate next week to coordinate final*
- Clear Creek trained Glacier employees – training not complete. *training.*

[Eco] keep posted on Pumping System.

[ACAW] definitely by THURS/FRI. - Discharge rate 100 gpm into 150' offshore on weed buffer.

Mobile Lab Friday or Monday.

Survey Morning
 Know bottom elev. = -2'
 Est. bottom wgs +1' → Approx. 3' deeper

- Treatment plant not operating overnight.

[Alan] - 500 tons import
 - 100 tons Reusable.

WATER TREATMENT PLANT - EXCAVATION

- Excavated Wetland area and backfilled with 2 - 4 feet of **subgrade** material and completed using **pit run** material. Estimated tonnage = ___ cy * 1.5 for clay =
- Excavated uncontaminated triangle in NW corner. Encountered some contaminated material under used oil storage concrete pad at 4-6 feet depth and along wood piles. 10 truck loads = approx. 70-90 cy * 1.5 for clay = **150 - 165 tons**
- Excavated and stockpiled clean soil suitable for backfill. 2 truck loads = approx. **14-18 cy**
- Excavated and stockpiled clean soil **unsuitable** for backfill. 62 truck loads = approx. **434-558 cy** * 1.5 for clay = **915-1023 tons**

• "CLEAN Δ" ≈ 910 cy Reusable

Treat bulkhead adjacent soil as dirty. Truck exit looks good. Street sweeper can be onsite w/ a day if needed.

Glacier Action Item

1. Need to submit following Plans:
 - a. No. 19 - Dewatering and Water Treatment Plan
 2. RFIR Responses - email to Ty are final
 3. Costs to haul away ND excavated soil not suitable for reuse and Class II soils not suitable for reuse. Submit as RFI and include intended method of payment.
 4. Stainless steel fence substitute and cost. Submit as RFI.
 5. Need RFI or other to document changes required or accepted by Dundee, including ice shed complete removal, no re-installation of south showers (use area for storage), relocation of used oil storage pad/bldg to vault area, etc. Dundee wants to move bldg west.
 6. Need RFP to discuss condition of remaining main dock rotted beams, proposed solution, and cost.
 7. Submittal No. 33 - Well Decommissioning Report **GCS has it**
 8. Submittal No. 88 - Sheet Pile As-built Data (survey) **Monday**

Natural clay was 20% saturated. what is bulkhead density?

KJ Action Item

1. SDRLs:
 - a. No. 24 - Material Testing Lab Qualifications
 - b. No. 45 - Welder Certs.
 - c. No. 75 - Import Material Chemical Analysis
2. RFIR 006 - Curb on building concrete pad.
3. Updated calcs showing suitability of using AZ26-700N
4. Final sheet pile wall end on eastside satisfactory - Ecology and KJ agree end location appears adequate.

Ecology Action Item

Approx. Cross Sections Excavated	Approx. Cross Sections Remaining	Progress Quantities			Backfill Completed (Tons)	Treated Water Discharged (Gal)
		Estimated Impacted Soils Excavated (Tons)	Estimated Clean Suitable Soils Excavated (CY)	Estimated Clean Unsuitable Soils Excavate (CY)		
8 and 25% of sections 4 and 5	1-17	(70-90) + ___	14-18 20	434-558 610-682	NA	NA

3. SAFETY:

- Weather: **snow/sleet/hail/rain = slick surfaces!** Cold weather
- Darker in the morning.
- Staging materials – safely and securely, safe egress/access. General housekeeping, etc.
- Securing open excavations, holes, and general construction areas during the day, night, and weekends.
- Shoring trenches and providing appropriate egress/access points. Designated competent persons.
- Following confined space work protocols monitoring air and providing ventilation if needed.
- Wooden bulkhead wall bowing and settling cracks occurring with trailer rig and vibration driving. GES Placed 1-inch thick steel plates under crane outrigger and trailer to help displaced weight and stabilize.

4. SCHEDULE: Approx. 2 week look ahead

- a. Remove remaining steel bulkhead sections above grade.
- b. Dewatering well system and treatment plant operation. Testing for NPDES
- c. Place clean soil removed from wetland excavation back on top
- d. Complete overburden excavation and survey with total quantity.
- e. Begin excavating contaminated soil

5. REGULATORY CONCERNS

- a. Building permits 3 of 4 on website. Permit one includes hand written notes on drawings.
- b. Potential roadway work.

6. RFI/SUBMITTALS/RFP:

- a. Status of RFIs:
 - i. RFI 006 -
- b. Status of Submittals:
 - i. #26R1 Backfill Sieve/Analytical – NOT USED. See #73 and #75
 - ii. #23 Analytical Lab Qualifications – MCNR, need 2014 accred. Letter
 - iii. #13 Plan of Operations – in review
 - iv. #29 SWPPP – NET
 - v. #20R1 Quality Control Plan – NET
 - vi. #5 Submittal of intent to pay prevailing wages – NET
 - vii. #24 Material testing laboratory Qualifications – in review
 - viii. #84 Sheet Pile Mill Certs – NET
 - ix. #45 Welder Certifications – in review
 - x. #73 Import Material Proctor and Sieve Analysis – NET
 - xi. #75 Import Material Analytical – in review
- c. RFPs/Claims/WCDs:

7. BILLING:

- a. Application for Payment No.1 in.
- b. Glacier intent for billing for excavation, backfill/compaction, and/or transport/disposal of clean, clean unsuitable, class II, et.

8. OTHER ISSUES:

- a. See clarification letter #1 – bulkhead lineal feet increase requirement.

WEEKLY PROGRESS REPORT
CORNET BAY MARINA REMEDIATION (2013)
Whidbey Island, Island County, WA
No. 7 02/04/2014

Dial in #: 866-548-4157
Call ID#: 16-54-62-10-71

1. INVITED ATTENDEES: Jing Liu, Brian Sato, Luis Buen Abad, Lauren Miles-Golemblewski, Eric Hay, Alan Hart, Ty Schreiner, Dick Guglomo, Jarod Fisher, Dean Malte, Ray Lopez
2. CONSTRUCTION SUMMARY AND ACTION ITEMS:

MOBILIZATION/DEMOB

- Dawson crane offsite

SITE SECURITY

- NA

TESC

- Turbidity samples measured on west side (wetland area) and on the east side (dirt boat ramp).
GES will take weekly turbidity samples on ends. (see weekly log on website)
↳ will sample more frequently during 1-2" rain events

DEMOLITION/SALVAGE

- NA

STORE RELOCATION

- NA

TEMPORARY DOCK ACCESS

- NA

BULKHEAD SHEET PILE

- Call Brian and get update. *[DG] B.L. will do calcs to determine passive earth pressures.*
- All sheet pile cut to elevation.
- Survey taken Monday *option: water = cast in place steel rods tie-backs.*

WATER TREATMENT PLANT

- Treatment plant not operating overnight.
- First system operation planned for ... *today. 2 tanks full & testing for NPDES. Will recycle for awhile. only 1/2 tank. crew test/training Friday/Monday for*

EXCAVATION

- Area 02 excavation: see excavation map for approximate location. Boundary and confirmation sampling points on GPS. Clean overburden removed last week and survey completed Monday. 14 truck loads, approximately 140-170 cyd contaminated soil removed from clean overburden volume and placed in contaminated stockpiles. Need to amend surveyed volume amount.
- Area 02 stockpile: clean clay approx. = 142 trucks (1,420 - 1,704 cyd), clean reusable approx. = 5 (50 - 60 cyd), contaminated approx. = 20 (200 - 240 cyd). *1200 tons.*
- Area 02 stockpile sampling: took 7 samples at approx. 1,000 cyd per the SAP. 3 samples in same area with low hits but Benzene above CUL. Removed material into separate pile and re-sampled stock pile with ND results. Will sample separate pile for Class II soils or ND after

aeration. 1 sample point with PAH, possibly from creosote soaked piles.

- Area 02 confirmation sampling: 4 samples collected Monday on floor with ND results. Further excavation revealed a sand layer approx. 2.5 feet below first excavation level with contamination. This layer was found to extend to the bulkhead wall. Initial excavation was to a depth of approx. 11.5 feet, second round of excavation to approximately 16 feet, or -2 feet elevation.
- Could only excavate approx. 60 cyd of clean overburden from area. See RFIs 7 and 8. Discuss time concerns and contamination.
- Discuss water from bay and recontamination concerns and alternatives.
- GRI onsite Monday and collected samples of clay to run proctors and advise on possible reuse of clay material. Discuss test procedure for reusing clay material: 3 feet clay, try to compact (use plat compactor?), amend with pit run to bridge

w/ Additional confirmation sampling can have some 10% of samples high - No single sample more than twice above.

Glacier Action Item

1. Need to submit following Plans:
 - a. No. 19 – Dewatering and Water Treatment Plan
2. RFIR Responses
3. Stainless steel fence substitute and cost. Submit as RFI.
4. Need RFI or other to document changes required or accepted by Dundee, including ice shed complete removal, no re-installation of south showers (use area for storage), relocation of used oil storage pad/bldg to vault area, etc.
5. Need RFP to discuss condition of remaining main dock rotted beams, proposed solution, and cost.
6. Submittal No. 33 - Well Decommissioning Report
7. Submittal No. 88 – Sheet Pile As-built Data (survey)

KJ Action Item

1. SDRLs:
 - a. No. 24 – Material Testing Lab Qualifications (waiting for accredited Letter)
 - b. No. 18 – Operations Plan – will have samples.
2. RFIR-006 – Curb on building concrete pad. Clarification #2 okay to issue.
3. Updated calcs showing suitability of using AZ26-700N BL had no issues w/ it.
4. Update website: weekly turbidity log, analytical, photos, daily reports, Cemex loads, sampling map/locations, excavation map/locations
5. GRI

Ecology Action Item

Progress Quantities						
Approx. Cross Sections Excavated	Approx. Cross Sections Remaining	Estimated Impacted Soils Excavated (Tons)	Estimated Clean Suitable Soils Excavated (CY)	Estimated Clean Unsuitable Soils Excavate (CY)	Backfill Completed (Tons)	Treated Water Discharged (Gal)
See Map	See Map	350 (01/29)	50-60	1,400-1,700	NA	NA

Total 1,171.45 tons (2/4)

3. SAFETY:

- Weather: **snow/sleet/hail/rain = slick surfaces!** Cold weather
- Darker in the morning.
- Staging materials – safely and securely, safe egress/access. General housekeeping, etc.
- Securing open excavations, holes, and general construction areas during the day, night, and weekends.
- Shoring trenches and providing appropriate egress/access points. Designated competent persons.
- Following confined space work protocols monitoring air and providing ventilation if needed.
- Wooden bulkhead wall bowing and settling cracks occurring with trailer rig and vibration driving. GES Placed 1-inch thick steel plates under crane outrigger and trailer to help displaced weight and stabilize.

4. SCHEDULE: Approx. 2 week look ahead

- a. Dewatering well system and treatment plant operation. Testing for NPDES
- b. Place clean soil removed from wetland excavation back on top.
- c. Continue excavating contaminated soil of Area 02 and begin Area 03.

5. REGULATORY CONCERNS

- a. Building permits 3 of 4 on website. Permit one includes hand written notes on drawings.

- b. Potential roadway work. - Pit across from main dock w/ woods
- c. Building curb. Roadside of pit

6. RFI/SUBMITTALS/RFP:

- a. Status of RFIs:
 - i. RFI 006 –
 - ii. RFI 007 – Not issued yet
 - iii. RFI 008 – Not issued yet
- b. Status of Submittals:
 - i. #26R1 Backfill Sieve/Analytical – NOT USED. See #73 and #75
 - ii. #23 Analytical Lab Qualifications – MCNR, need 2014 accred. Letter
 - iii. #13 Plan of Operations – in review
 - iv. #29 SWPPP – NET
 - v. #20R1 Quality Control Plan – NET
 - vi. #5 Submittal of intent to pay prevailing wages – NET
 - vii. #24 Material testing laboratory Qualifications – NET
 - viii. #84 Sheet Pile Mill Certs – NET
 - ix. #45 Welder Certifications – NET
 - x. #73 Import Material Proctor and Sieve Analysis – NET
 - xi. #75 Import Material Analytical – NET
- c. RFPs/Claims/WCDs:

7. BILLING:

- a. Application for Payment No.1 in.
- b. Glacier intent for billing for excavation, backfill/compaction, and/or transport/disposal of clean, clean unsuitable, class II, et.

8. OTHER ISSUES:

- a. See clarification letter #1 – bulkhead lineal feet increase requirement.
- b. Definite odor at sump well adjacent to SW corner of fuel vault. Depth approx. 13 feet.

WEEKLY PROGRESS REPORT
CORNET BAY MARINA REMEDIATION (2013)
Whidbey Island, Island County, WA
No. 8 02/28/2014

Dial in #: 866-548-4157
Call ID#: 16-54-62-10-71

1. INVITED ATTENDEES: Jing Liu, Brian Sato, Luis Buen Abad, Lauren Miles-Golemblewski, Eric Hay, Alan Hall, Ty Schreiner, Dick Guglomo, Jarod Fisher, Dean Malte, Ray Lopez

2. CONSTRUCTION SUMMARY AND ACTION ITEMS:

MOBILIZATION/DEMOB

- NA

SITE SECURITY

- NA

TESC

- Turbidity samples measured on west side (wetland area) and on the east side (dirt boat ramp). GES will take weekly turbidity samples on ends. This information included in DMRs.

DEMOLITION/SALVAGE

- NA

STORE RELOCATION

- NA

TEMPORARY DOCK ACCESS

- One complaint received of boat owner with no access. Gate locked. Likely was not at temporary access point. *ding spoke w/ guy. Place a sign to temp access.*

BULKHEAD SHEET PILE

- GRI revised passive resistance factor for soil based upon bulkhead installation reports. However, values were not sufficient for the structural engineer to allow the steel bulkhead to remain as is. Sitts & Hill and KJ are preparing a relatively inexpensive solution to secure the bulkhead wall in the northeast corner. *Brian [unclear] Be sure that we do not move pile, i.e. check tip elevation w/ excavation.*

WATER TREATMENT PLANT

- Treatment plant not operating overnight.
- Operated 4 times. DMRs completed by Glacier. Treatment results on website.

EXCAVATION AND BACKFILL

- Field Screening for clean overburden should be ND for CNW. CNW no longer accepting MTCA A soils but only Category I soils (mg/kg): GRO <5, DRO <25, Oil <100, BTEX = ND (for 0.03 PQL). *Collect sample today*
- Resample Method for samples above Cat I: collect 5 pt. composite sample in same area and in line perpendicular to soil addition to stockpile, i.e. soil representative of sample point. If still above Cat I, remove soil and stockpile for Class II soil to Cemex. Resample any remaining soil under or immediately adjacent to the original sample

- point.
 - Attempt to segregate Class II from Class III soils after stockpiling. Collect one 5 pt. composite sample for each 100 CY of material. Align samples parallel to each other and with 15-20 feet spacing for adequate segregation by excavator.
 - Field screening calibration: approximately 1.5 to 3 ppm on the PID will likely result in 0.5 ppm benzene.
 - The clean up levels are MTCA A with benzene to 0.5 mg/kg. Do not chase contamination beyond estimated excavation limits shown on drawings unless high concentrations are detected – then consult with DOE. Increase in elevations when possible.
 - **Area 01:**
 - Completed.
 - **Area 02:**
 - **Overburden Excavation -**
 - **Contaminated Excavation** – Removed soils along bulkhead wall and wood piles down to mud line elevation. Eastern half removed as Class III. Western half stockpiled and sampled. PAHs detected – has to go Class III. As-built excavation depth topo will be adjusted to show removal of slope. Ecology revised clean up levels to MTCA A with Benzene CUL to 18 mg/kg.
 - **Overburden Backfill and Compaction** – No reuse.
 - **Import Backfill and Compaction** – Completed nearly to grade.
 - **Sampling** – See sampling maps and log. Confirmation sampling has been largely ND. Sample A02-11-12 above 0.5 mg/kg for benzene at the excavation limits per drawings.
 - **Area 03:**
 - **Overburden Excavation** – Stockpile surveyed vs. in-place survey.
 - **Contaminated Excavation** – Completed to approximate depths shown on drawings. Slightly higher on the northern half, approximately 2-3 feet.
 - **Overburden Backfill and Compaction** – no overburden reused.
 - **Import Backfill and Compaction** – Completed nearly to grade.
 - **Sampling** – CUL for benzene adjusted to 0.5 mg/kg. One sidewall sample above clean up limits for GRO @ 33 and benzene @ 0.57. Sample at extent of excavation limits.
 - **Area 04:**
 - **Overburden Excavation** –
 - **Contaminated Excavation** – Completed. Approximately half of area above estimated excavation elevations 4-5 feet. The other half taken to drawing elevations per cross sections.
 - **Overburden Backfill and Compaction** – Small amount attempted with clay clods. Material pumped and was difficult to work.
 - **Import Backfill and Compaction** – Completed nearly to grade.
 - **Sampling** – 4 samples above CUL. 3 at sidewalls and extent of excavation. 1 at the floor prior to revising CUL for benzene from 18 mg/kg to 0.5 mg/kg. A04-1-7 @ 1.8 ppm benzene. A4-13-7 collected in same area later with 0.025 mg/kg benzene.
 - **Area 05 (WEST):**
 - **Overburden Excavation** – Deeper than expected, approx. 9 feet to 5' and 6' elevations.
 - **Contaminated Excavation** – Completed west half. Need to remove bulkhead and material. This area approximately 2-3 feet higher than estimated excavation limits shown on drawing.
 - **Overburden Backfill and Compaction** – None used. DOE confirmed no reuse of clay material.
- ding [Benzene is "remediation" level, NOT clean up level. Ecology's directed level for excavation levels].*
- 3-phase model*

- **Import Backfill and Compaction** – Initial lifts to 12' elevation in center.
- **Sampling** – 1 confirmation sample @ 0.5 ppm benzene, 2 @ 0.49 ppm. Others below CUL

Glacier Action Item

- need to have mtg*
1. Need to submit following Plans:
 2. RFIR Responses
 3. Stainless steel fence substitute and cost. Submit as RFI.
 4. Sidewalk thickness and position. Submit as RFI. Obtain Dundee's written approval prior to submitting.
 5. Need RFI or other to document changes required or accepted by Dundee, including ice shed complete removal, no re-installation of south showers (use area for storage), relocation of used oil storage pad/bldg to vault area, etc.
 6. Need RFP to discuss condition of remaining main dock rotted beams, proposed solution, and cost.
 7. Submittal No. 88 – Sheet Pile As-built Data (survey) *Supply data*
 8. Excavation depth surveys →
 9. Stockpile surveys → *WORKING ON THEM*

Mudline out, take slope out for Area 02 BHW Removal.

KJ Action Item

1. ~~SDRLs:~~
 - a. ~~No. 24 – Material Testing Lab Qualifications (waiting for accred. Letter)~~
 - b. ~~No. 18 – Operations Plan~~
2. ~~RFIR 006 – Curb on building concrete pad.~~
3. ~~Update website: weekly turbidity log, analytical, photos, daily reports, Cemex loads, sampling map/locations, excavation map/locations~~

Ecology Action Item *MTG for fence & sidewalk.*

3. PROGRESS QUANTITIES AS OF 2/26:

- IMPORT = 10,539 TONS
- EXPORT:
 - CONTAMINATED = 8,519.61 TONS *1,800 ton - 1,500 tons 10,000 tons.*
 - CLASS 2 = 661.32 TONS *from AS*
 - CLASS 3 = 7,858.29 TONS
 - UNSUITABLE = 2002 CY (mostly backhaul, some direct haul)
 - = 1,500 CY from AREAS up to 2,000 CY.*

4. SAFETY:

- Weather: **snow/sleet/hail/rain = slick surfaces!** Cold weather
- Darker in the morning.
- Staging materials – safely and securely, safe egress/access. General housekeeping, etc.
- Securing open excavations, holes, and general construction areas during the day, night, and weekends.
- Shoring trenches and providing appropriate egress/access points. Designated competent persons.

- Following confined space work protocols monitoring air and providing ventilation if needed.
- Wooden bulkhead wall bowing and settling cracks occurring with trailer rig and vibration driving. GES Placed 1-inch thick steel plates under crane outrigger and trailer to help displaced weight and stabilize.

5. **SCHEDULE:** Approx. 2 week look ahead

- Dewatering well system and treatment plant operation. Testing for NPDES
- Complete Area 05 excavation and backfill.
- Complete Area 06 excavation and backfill. Pull out bulkhead wall.

6. **REGULATORY CONCERNS**

- Septic tanks. *After. Finish excavation in 3 weeks*
Fiberglass lining, 1 tank vs. 2; capacity?

7. **RFI/SUBMITTALS/RFP:**

- Status of RFIs:
 - RFI 006 –
 - RFI 007 – Not issued yet
 - RFI 008 – Not issued yet
 - RFI 009 –
 - RFI 010 – Removal of bulkhead drain. *Approx. \$3,500 credit*
 - RFI 011 – Placement of unsuitable material. *will NOT USE.*
- Status of Submittals:
 - #23 Analytical Lab Qualifications – MCNR, need 2014 accred. Letter
 - #13 Plan of Operations – in review
 -
- RFPs/Claims/WCDs:

8. **BILLING:**

- Application for Payment No.1 and 2 completed.
- Revised progress payments include following:
 - Bid item 04-02 – Can survey stockpiles instead of in place. Swell factor agreed upon? *30%*
 - Bid item 04-04 - No change in payment for contaminated excavation (19,300 tons)
 - Bid item 04-03 – Can survey stockpiles instead of in place. Swell factor agreed upon? *30%*
 - New unit bid items for disposal of unsuitable material to CNW. Backhaul = \$7.87/CY, Direct haul = \$10.99/CY. Agreed truck and trailer is equivalent to 22 CY. Tickets will include loads and indicate full vs. half.
 - New unit bid item for disposal of Class 2 material = \$47.36/ton.

9. **OTHER ISSUES:**

- See clarification letter #1 – bulkhead lineal feet increase requirement.
- Removal of wood bulkhead wall per lineal feet cost? *let lauser answer. Has been removed of other material.*

WEEKLY PROGRESS REPORT
CORNET BAY MARINA REMEDIATION (2013)
Whidbey Island, Island County, WA
No. 9 03/7/2014

Dial in #: 866-548-4157
Call ID#: 16-54-62-10-71

1. INVITED ATTENDEES: Jing Liu, Brian Sato, Luis Buen Abad, Lauren Miles-Goleblewski, Eric Hay, Alan Hall, Ty Schreiner, Dick Guglomo, Jarod Fisher, Dean Malte, Ray Lopez
ADD KEITH PARKEIT
2. CONSTRUCTION SUMMARY AND ACTION ITEMS:

MOBILIZATION/DEMOB

- NA

SITE SECURITY

- NA

TESC

- Turbidity samples measured on west side (wetland area) and on the east side (dirt boat ramp). GES will take weekly turbidity samples on ends. (see weekly log on website). Silt boom still working well stopping silt after rain events.

DEMOLITION/SALVAGE

- NA

STORE RELOCATION

- NA

TEMPORARY DOCK ACCESS

- NA

BULKHEAD SHEET PILE

*Mtg w/ Sitts & Hill yesterday.
12" SQUARE TUBE STEEL, NO TIEBACK, DUGS EARLY NEXT WK*

- KJ working with Sitts and Hill to prepare drawings. Preliminary design includes walers welded both sides of corner and a connecting channel or I-beam strut. Approximately 3 feet bgs.

DO WE NEED ISLAND COUNTY TO REVIEW [LM]. ISLAND COUNTY

WATER TREATMENT PLANT

NEEDS 2 WEEKS FOR REVIEW [AH]

- Treatment plant not operating overnight. *GIVE IC HEADS UP [JC].*
- First system operation conducted Friday 0207 for 1.5 hours @ 110 gpm. pH and turbidity collected every hour. Gx, Dx, BTEX samples collected for NPDES.
- Second system operation conducted Monday with final training for Glacier.

EXCAVATION AND BACKFILL

- NOTE: Field Screening for clean overburden should be ND to be able to go to CNW. Subsequent sampling of stockpiles that have contaminants can be segregated for Class II soils if needed. Class II soils will likely not be segregated during excavation of contaminated soils since Glacier intends to load directly into trucks and Class II soils require benzene less than 0.5 mg/kg.
- **Area 05:**
 - **Overburden Excavation** – Surveyed stockpile at 1,037 CY. Approximately 400 CY of

this will be removed as Class II soils to Cemex (see sampling below).

- o **Contaminated Excavation** – Completed. Separated into west and east sub areas. West end approximately 2 feet higher than excavation limits shown on drawings. East area excavated approximately to limits on drawings. Contamination does not appear to go beyond the excavation limits east into the stat park with any great concentration, but this will be better observed during Area 6 excavation.
- o **Sampling** – Confirmation samples at or below benzene remediation screening limit of 0.5 ppm. ND all other analysis.

Glacier Action Item

1. Need to submit following Plans:
2. RFIR Responses
3. ~~Stainless steel fence substitute and cost. Submit as RFI.~~ *RFI COST REDUCTIONS. WAITING ON DWGS*
4. Letter received from Dundee with agreement to changes. Please note that concrete floor of building is required to have linoleum per design.
5. Need ~~RFP~~ *NO, remove & replace in kind, then okay. if changed, then* to discuss condition of remaining main dock rotted beams, proposed solution, and cost.
6. Submittal No. 88 – Sheet Pile As-built Data (survey) *can't do design.*
7. ~~BIDG Replacement conditions needed~~ *{BS} THERMAL EXP OF SHEET PILE*

KJ Action Item

1. SDRLs: *{RF} JOINTS, CONG ADHERED TO WALL. BUT WILL MOVE Telescopic joints on guardrail.*
 - a. ~~No. 24~~ Material Testing Lab Qualifications (waiting for accred. Letter)
 - b. ~~No. 18~~ Operations Plan
2. RFIR.006 – Curb on building concrete pad.
3. Bulkhead wall reinforcement design drawings
4. Bulkhead wall concrete and railing drawings *→ Railings } tot Tuesday*
5. Suggestions for main dock elevation and landing *→ Sketch out Ramp up w/landing Section Views.*
6. Update website: weekly turbidity log, analytical, photos, daily reports, Cemex loads, sampling map/locations, excavation map/locations

Ecology Action Item

1. Main dock connection to 13.5 elevation, main dock replacement. *show bldg, pad, ground, sheetpile, dock sections grade.*

3. PROGRESS QUANTITIES:

a. Export:

- i. Contaminated Total = 11,440 Tons *3/5*
 1. Class 2 = 908 tons
 2. Class 3 = 10,532 tons
- ii. Unsuitable = 2,992 CY

b. Excavation Overburden Quantities: Total = 2,763.7

- i. Area 01 = 81 CY (64 CY billed due to swell in Progress Payment #1)
- ii. Area 02 = 1,377 CY (in-place survey, reduced 209 CY for 19 truck load-outs @ 11 CY/Truck. Billed in PP#1)

Need 3 cross sections.

- 1: Bldg, BH, Dock (W)
- 2: Bldg, Patio, general BH (E)
- 3: Main Bldg, Fosepit, BH (M)

$273 \times 0.3 = 82 X$

$273 - X =$ Paid Qty.

- iii. Area 03 & 04 = 273 CY (Stockpile surveys, apply 30% swell factor)
- iv. Area 05 = 1,032.7 CY (Stockpile survey, need to subtract quantity for truck load-outs. 11 CY/Truck or per tonnage? Then apply 30% swell factor to remaining amount).
- c. Compact and Backfill of Re-usable Material: Total = 144 CY (need to apply 30% swell factor)
 - i. Area 01 = 81 CY (64 billed due to swell in Progress Payment #1)
 - ii. Area 03 = 63 CY (need to apply 30% swell factor)
- d. Import Backfill and Compaction: Total = 12,467.63 Tons →

4. SAFETY:

- Weather: snow/sleet/hail/rain = slick surfaces! Cold weather
- Darker in the morning.
- Staging materials – safely and securely, safe egress/access. General housekeeping, etc.
- Securing open excavations, holes, and general construction areas during the day, night, and weekends.
- Shoring trenches and providing appropriate egress/access points. Designated competent persons.
- Following confined space work protocols monitoring air and providing ventilation if needed.
- Wooden bulkhead wall bowing and settling cracks occurring with trailer rig and vibration driving. GES Placed 1-inch thick steel plates under crane outrigger and trailer to help displaced weight and stabilize.

5. SCHEDULE: Approx. 2 week look ahead

- a. Dewatering well system and treatment plant operation. Testing for NPDES
- b. Complete Area 06 excavation and backfill. Remove septic tanks and lines.
- c. Remove bulkhead wall along Area 05. FRIDAY (NEXT) 14th CATZ AFTERNOON.
- d. Disconnect electrical
- e. Complete Area 07 excavation and backfill
- f. Reconnect electrical.

6. REGULATORY CONCERNS

CALL FOR HEADS UP TO CHANGES.

- a. Building permits 3 of 4 on website. Permit one includes hand written notes on drawings. Still need to complete septic system permit
- b. MTE w/ IC on Tuesday for septic tank.

7. RFI/SUBMITTALS/RFP:

- a. Status of RFIs:
 - i. RFI 006 – CONC PAD.
 - ii. RFI 007 – ~~Not issued yet~~
 - iii. RFI 008 – ~~Not issued yet~~

RFI 9 = notice of in water work completion

RFI 10 = BM DRAW REMOVAL

RFI 11 =

- b. Status of Submittals:
- c. RFPs/Claims/WCDs:

8. BILLING:

- a. Application for Payment No. 1 & 2 completed.
- b. Need application for payment No. 3.

9. OTHER ISSUES:

- a. See clarification letter #1 – bulkhead lineal feet increase requirement.

WEEKLY PROGRESS REPORT
CORNET BAY MARINA REMEDIATION (2013)
Whidbey Island, Island County, WA
No. 10 03/26/2014

Dial in #: 866-548-4157
Call ID#: 16-54-62-10-71

1. INVITED ATTENDEES: Jing Liu, Brian Sato, Luis Buen Abad, Lauren Miles-Goleblewski, Eric Hay, Alan Hall, Ty Schreiner, Dick Guglomo, Jarod Fisher, Dean Malte, Ray Lopez **W. FITH PARKER**
2. CONSTRUCTION SUMMARY AND ACTION ITEMS:

MOBILIZATION/DEMOB

- NA

SITE SECURITY

- NA

TESC

- Turbidity samples measured on west side (wetland area) and on the east side (dirt boat ramp). GES will take weekly turbidity samples on ends. (see weekly log on website). Silt boom still working well stopping silt after rain events.

DEMOLITION/SALVAGE

- NA

STORE RELOCATION

- NA

TEMPORARY DOCK ACCESS

- NA

BULKHEAD SHEET PILE

- Final design completed includes walers welded both sides of corner and a connecting channel or I-beam strut. Approximately 3 feet bgs.

WATER TREATMENT PLANT

- Treatment plant not operating overnight.

EXCAVATION AND BACKFILL

- NOTE: Field Screening for clean overburden should be ND to be able to go to CNW. Subsequent sampling of stockpiles that have contaminants can be segregated for Class II soils if needed. Class II soils will likely not be segregated during excavation of contaminated soils since Glacier intends to load directly into trucks and Class II soils require benzene less than 0.5 mg/kg.
- **Area 05:**
 - **Contaminated Excavation** – Completed removal of wood bulkhead wall and clay/soil to area under MDP. Creosote impacted clay/soil sent as C3 material.
 - **Sampling** – Additional confirmation samples collected on floor and sent to ALS.
- **Area 06:**

- **Overburden** – No overburden removed. Impacted soils were within 6-inches of surface.
- **Contaminated Excavation** – Completed removal of clay/soil per estimated limits on drawings. Confirmation sampling of sidewalls showed no need to extend excavation into the state park farther east. Excavated to greater depths up to -2 feet elevation adjacent to the fuel vault. Intend go back to excavated further south towards the road between the vault and septic drain field.
- **Sampling** – 1 sidewall sample between the vault and septic drain field above benzene remediation limit of ~~0.5 ppm~~ *G06 @ 102 ppm*
- **Area 07:**
 - **Overburden** – No overburden removed. Impacted soils were within 6-inches of surface.
 - **Contaminated Excavation** – Completed removal of clay/soil adjacent to fuel vault and Areas 04 and 06. At least a portion of excavation near the vault was excavated 6 feet or greater deeper chasing high concentrations of contaminants. Removed additional sidewall area left over from area 04 when stopping at excavation limits estimated on drawings.
 - **Sampling** – All samples ND or below remediation limits.
- **Combined Areas – Electrical Lines**
 - Additional excavation occurring between Areas 04/07 and 02/05 under the electrical conduits. Chasing impacted clay/soils to greater depths than estimated on drawings. May be some clean overburden under the MDP but may not be able to separate from creosote.

Glacier Action Item

1. Need to submit following Plans:
2. RFIR Responses
3. ~~Stainless steel fence substitute and cost. Submit as RFI.~~ *Extend full length 360' vs. 340' S.S. Fence/guardrail.*
4. Letter received from Dundee with agreement to changes. Please note that concrete floor of building is required to have linoleum per design.
5. Need RFP to discuss condition of remaining main dock rotted beams, proposed solution, and cost. NO RFP – no work is planned to be done on the remaining dock.
6. Provide submittals for any item that is different from specs. Provide submittals for any complex or expensive items even if not different from the specs. *RFI -*
7. *Cost for reinforcement (BHW)*
8. *Fence increase linear cost*
9. *Conc. Cap linear feet increase.*
10. *MDP support w/guardrail vs. unistrut.*

KJ Action Item

1. SDRLs:
 - a. No. 37 – Reinforcing Steel.
 - b. No. 69 – Electrical system products
 2. RFIs:
 - a. No. 16 – Septic system spec'd pump size (direction provided to Glacier)
 - b. No. 17 – Water piping specs vs. original pipe (direction provided to Glacier)
 3. Bulkhead wall reinforcement design drawings – get to IC for review
 4. Building elevations and final grade sketches – get to IC for review
 5. Update website: weekly turbidity log, analytical, photos, daily reports, Cemex loads, sampling map/locations, excavation map/locations
 6. *Confirm if a separation is required from soil w/ IC. 6"?*
- 11. Vault RFP- First test tank. Tank technologies agreement w/ KJ. Apr 8th?*
- [Keith] same location?*
- [L] same location but @ face of wall.*
- Date Slipped. Around Apr. 8th*
- Are we holding off on installing fuel lines?*

Ecology Action Item

1. No replacement or upgrades of the main dock no affected by construction.
 2. Are angles allowed in bulkhead sidewalk to minimize overhang to approx. 6-inches or less or increase reinforcing steel/design to allow for greater overhangs?
 3. Cut east and west bulkhead sidewalk corners to reduce overhang. Acceptable?
 4. Building finish elevations and grades.
 - a. Replacement of sill plate with pressure treated wood.
- Mid April.*
- Pile up around Apr. 9th*

3. PROGRESS QUANTITIES:

- a. Export:
 - i. Contaminated Total = 20,925.74 Tons
 1. Class 2 = 1,475.91 tons
 2. Class 3 = 19,449.83 tons
 - ii. Unsuitable = 2,992 CY
 - iii. Remaining Class 3 Export Estimate = 2,000 – 2,500 Tons
- b. Excavation Overburden Quantities: Total = 2,763.7 CY
 - i. Area 01 = 81 CY (64 CY billed due to swell in Progress Payment #1)

- ii. Area 02 = 1,377 CY (in-place survey, reduced 209 CY for 19 truck load-outs @ 11 CY/Truck. Billed in PP#1)
 - iii. Area 03 & 04 = 273 CY (Stockpile surveys, apply 30% swell factor)
 - iv. Area 05 = 1,032.7 CY (Stockpile survey, need to subtract quantity for truck load-outs. 11 CY/Truck or per tonnage? Then apply 30% swell factor to remaining amount).
- c. Compact and Backfill of Re-usable Material: Total = 144 CY (need to apply 30% swell factor)
- i. Area 01 = 81 CY (64 billed due to swell in Progress Payment #1)
 - ii. Area 03 = 63 CY (need to apply 30% swell factor)
- d. Import Backfill and Compaction: Total = 24,149.93 Tons
- i. Remaining Estimate = 1,500 – 2,500 Tons

4. SAFETY:

- Weather: **snow/sleet/hail/rain = slick surfaces!** Cold weather
- Darker in the morning.
- Staging materials – safely and securely, safe egress/access. General housekeeping, etc.
- Securing open excavations, holes, and general construction areas during the day, night, and weekends.
- Shoring trenches and providing appropriate egress/access points. Designated competent persons.
- Following confined space work protocols monitoring air and providing ventilation if needed.
- Wooden bulkhead wall bowing and settling cracks occurring with trailer rig and vibration driving. GES Placed 1-inch thick steel plates under crane outrigger and trailer to help displaced weight and stabilize.

5. SCHEDULE: Approx. 2 week look ahead

- a. Dewatering well system and treatment plant operation. Testing for NPDES
- b. Excavate around vault and seal.
- c. Excavation Completed
- d. Disconnect electrical and reset MDP or replace
- e. Survey building foundation and begin forming
- f. Utility line work

6. REGULATORY CONCERNS

- a. Building permits 3 of 3 on website. Permit one includes hand written notes on drawings. No septic system permit.
- b. Building ramps and final elevation changes
- c. Main dock connection sheet pile notch elevation
- d. Septic control panel electrical class and division.

7. RFI/SUBMITTALS/RFP:

- a. Status of RFIs:
 - i. RFIR 016 – Not issued yet
 - ii. RFIR 017 – Not issued yet
- b. Status of Submittals:
 - i. No. 037 – in review
 - ii. No. 069 – in review
- c. RFPs/Claims/WCDs:
 - i. Sheet Pile reinforcement change
 - ii. Sill plate pressure treated wood replacement change

8. BILLING:

- a. Application for Payment No. 1& 2 completed.

- b. Application for payment No. 3 completed and in with Ecology.
- c. Change order 1 completed. - Bulkhead wall 25' increase
- d. Change order 2 - excavation and backfill changes in unit measurements and types. Not complete. Waiting for completion of excavation. Glacier added items to bid item 04 and can bill up to original amount to be paid before completion of change order. Cannot bill over \$1,500,000 until completion of change order No. 2.
- e. change orders for BHW sidewalk, guardrail linear ft increase.

9. OTHER ISSUES:

CO for pressure treated wood sill plate.
CO/RFP for vault sealing.

- a. See clarification letter #1 - bulkhead linear feet increase requirement.

CO for BHW reinforcement.

CO #

ORC & vertical piping.

Check w/ permits payment: just provide invoice?

CO #

Ramp/Main Dock slope/transition changes.

WEEKLY PROGRESS REPORT
CORNET BAY MARINA REMEDIATION (2013)
Whidbey Island, Island County, WA
No. 11 04/02/2014

Dial in #: 866-548-4157
Call ID#: 16-54-62-10-71

1. INVITED ATTENDEES: Jing Liu, Brian Sato, Luis Buen Abad, Lauren Miles-Golemblewski, Eric Hay, Alan Hall, Ty Schreiner, Dick Guglomo, Jarod Fisher, Dean Malte, Ray Lopez
2. CONSTRUCTION SUMMARY AND ACTION ITEMS:

MOBILIZATION/DEMOB

- Demobilizing water treatment system. Glacier will provide any equipment necessary to remove and treat/dispose of water if needed at no additional costs.
- What is needed to complete NPDES? *Send photos to Brian*

SITE SECURITY

- Adjusted west side of security fence in to provide additional patron parking. 6-inch top compacted in place to edge of construction area. *Keep w/ GSWP to completion.*

TESC

- Weekly turbidity samples still collected for GSWCP. Silt boom and oil boom still in place until excavation and top course compaction to final grade complete.

STORE RELOCATION

- Carpenters replaced sill plate with pre-treated hemlock per permit requirements.
- Building foundation corners have been surveyed. Septic piping under slab has been installed in trenches.

TEMPORARY DOCK ACCESS

- NA *April 3rd week, would like to reconnect.*

BULKHEAD SHEET PILE

- Final design completed includes walers welded both sides of corner and a connecting channel or I-beam strut. Approximately 3 feet bgs. Approved by County. Need Glacier's cost.
- Pile wall out of alignment greater than tolerances allowed in specifications in a few locations. *Go back to Dawson for potentially for additional costs.*

WATER TREATMENT PLANT

- Glacier removed carbon media and sludge in tanks. Disposed of in class 3 pile.
- Dewatering wells decommissioned. Preparing for removal of system.

EXCAVATION AND BACKFILL

- Complete throughout most of site. There is a small amount left under the existing MDP that will need to be removed with the bulkhead wall. There is a section of clay material that was left in place in this area that was not contaminated.
- Backfill is close to final grade. West area has been graded with 6-inch top course backfilled and compacted.
- ORC was placed around 3 sides of the vault at bottom of vault, approximate 10-12 foot depths. *used all ORC*

- No excavation survey was completed for Area 05 for removal of soil/clay and wood bulkhead wall. Need to agree how to account for the amount.
- No excavation survey was completed for additional amount removed between the septic drain field and fuel vault. Need to agree how to account for the amount.
- No excavation survey was completed for underneath the electrical lines.

Glacier Action Item

1. Need to submit following Plans:
2. RFIR Responses
3. Stainless steel fence substitute and cost. Submit as RFI.
4. Letter received from Dundee with agreement to changes. Please note that concrete floor of building is required to have linoleum per design.
5. Need RFP to discuss condition of remaining main dock rotted beams, proposed solution, and cost. NO RFP – no work is planned to be done on the remaining dock.
6. Provide submittals for any item that is different from specs. Provide submittals for any complex or expensive items even if not different from the specs.

- MDP is 8 weeks out
 to Ecology would like new panel. [L] swap out panel @ later date.
- Submittal on septic system.

KJ Action Item

1. SDRLs:
 - a. No. 37 – Reinforcing Steel.
 - b. No. 69 – Electrical system products
2. RFIs:
 - a. No. 16 – Septic system spec'd pump size (direction provided to Glacier)
 - b. No. 17 – Water piping specs vs. original pipe (direction provided to Glacier)
3. Bulkhead wall reinforcement design drawings – get to IC for review
4. Building elevations and final grade sketches – get to IC for review
5. Update website: weekly turbidity log, analytical, photos, daily reports, Cemex loads, sampling map/locations, excavation map/locations

Ecology Action Item

1. No replacement or upgrades of the main dock no affected by construction.
2. Are angles allowed in bulkhead sidewalk to minimize overhang to approx. 6-inches or less or increase reinforcing steel/design to allow for greater overhangs?
3. Cut east and west bulkhead sidewalk corners to reduce overhang. Acceptable?
4. Building finish elevations and grades.
 - a. Replacement of sill plate with pressure treated wood. Correct [B]

3. PROGRESS QUANTITIES:

a. Export:

i. Contaminated Total = 22,970.67 Tons

add 700 tons for today

1. Class 2 = 1,475.91 tons
2. Class 3 = 21,494.76 tons
- ii. Unsuitable = 2,992 CY
- iii. Remaining Class 3 Export Estimate = 2,000 – 2,500 Tons
- b. Excavation Overburden Quantities: Total = 2,763.7 CY
 - i. Area 01 = 81 CY (64 CY billed due to swell in Progress Payment #1)
 - ii. Area 02 = 1,377 CY (in-place survey, reduced 209 CY for 19 truck load-outs @ 11 CY/Truck. Billed in PP#1)
 - iii. Area 03 & 04 = 273 CY (Stockpile surveys, apply 30% swell factor)
 - iv. Area 05 = 1,032.7 CY (Stockpile survey, need to subtract quantity for truck load-outs. 11 CY/Truck or per tonnage? Then apply 30% swell factor to remaining amount).
- c. Compact and Backfill of Re-usable Material: Total = 144 CY (need to apply 30% swell factor)
 - i. Area 01 = 81 CY (64 billed due to swell in Progress Payment #1)
 - ii. Area 03 = 63 CY (need to apply 30% swell factor)
- d. Import Backfill and Compaction: Total = ~~21,149.93~~ Tons *26,500 tons 3/31*
 - i. Remaining Estimate = 1,500 – 2,500 Tons

*Pit run & screenings.
Add / estimate 3,000 tons added*

4. SAFETY:

- Weather: **snow/sleet/hail/rain = slick surfaces!** Cold weather
- Darker in the morning.
- Staging materials – safely and securely, safe egress/access. General housekeeping, etc.
- Securing open excavations, holes, and general construction areas during the day, night, and weekends.
- Shoring trenches and providing appropriate egress/access points. Designated competent persons.
- Following confined space work protocols monitoring air and providing ventilation if needed.
- Wooden bulkhead wall bowing and settling cracks occurring with trailer rig and vibration driving. GES Placed 1-inch thick steel plates under crane outrigger and trailer to help displaced weight and stabilize.

5. SCHEDULE: Approx. 2 week look ahead

- a. Dewatering well system and treatment plant operation. Testing for NPDES
- b. Excavate around vault and seal.
- c. Excavation Completed
- d. Disconnect electrical and reset MDP or replace
- e. Survey building foundation and begin forming
- f. Utility line work

*• steel onsite friday
• excavate for forms tomorrow / friday
• Pour pad tuesday.
• Prep for sidewalk & grading.
• 14th move building in place.
• Planting following week
Apr. 14th*

6. REGULATORY CONCERNS

- a. Building permits 3 of 3 on website. Permit one includes hand written notes on drawings. No septic system permit.
- b. Building ramps and final elevation changes —
- c. Main dock connection sheet pile notch elevation
- d. Septic control panel electrical class and division.

7. RFI/SUBMITTALS/RFP:

- a. Status of RFIs:
 - i. RFIR 016 – Not issued yet
 - ii. RFIR 017 – Not issued yet
- b. Status of Submittals:
 - i. No. 037 – in review
 - ii. No. 069 – in review

c. RFPs/Claims/WCDs:

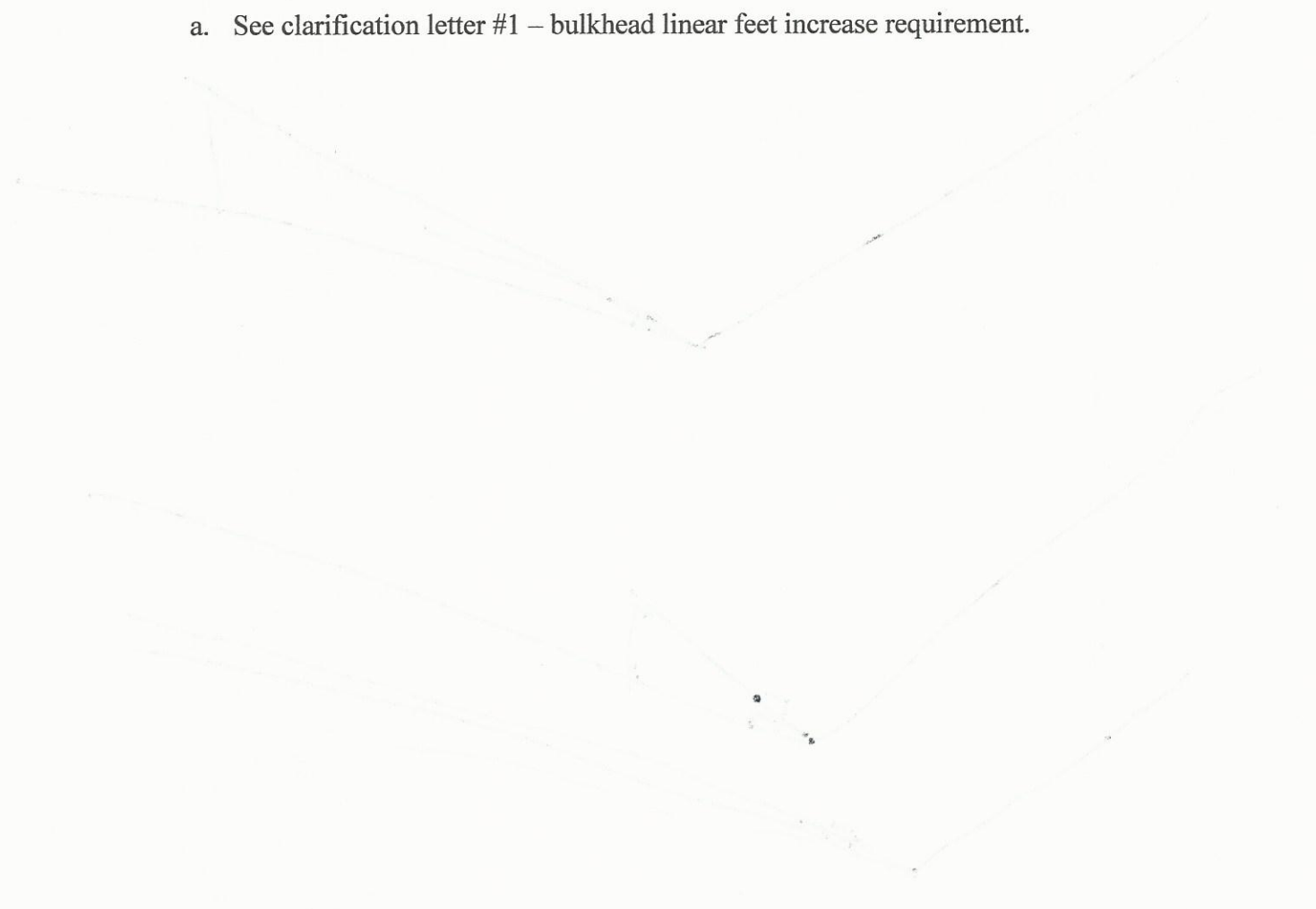
- i. Sheet Pile reinforcement change
- ii. ~~Sill plate pressure treated wood replacement change~~ out

8. BILLING:

- a. Application for Payment No. 1 & 2 completed.
- b. Application for payment No. 3 completed and in with Ecology.
- c. Change order 1 completed. – Bulkhead wall 25' increase
- d. Change order 2 – excavation and backfill changes in unit measurements and types. Not complete. Waiting for completion of excavation. Glacier added items to bid item 04 and can bill up to original amount to be paid before completion of change order. Cannot bill over \$1,500,000 until completion of change order No. 2.

9. OTHER ISSUES:

- a. See clarification letter #1 – bulkhead linear feet increase requirement.



WEEKLY PROGRESS REPORT
CORNET BAY MARINA REMEDIATION (2013)
Whidbey Island, Island County, WA
No. 12 04/09/2014

Dial in #: 866-548-4157
Call ID#: 16-54-62-10-71

1. INVITED ATTENDEES: Jing Liu, Brian Sato, Luis Buen Abad, Lauren Miles-Golemblewski, Eric Hay, Alan Hall, Ty Schreiner, Dick Guglomo, Jarod Fisher, Dean Malte, Ray Lopez, KEITH PARKER
2. CONSTRUCTION SUMMARY AND ACTION ITEMS:

MOBILIZATION/DEMOB

- Water treatment system offsite.

SITE SECURITY

- NA

TESC

- Weekly turbidity samples still collected for GSWCP. Silt boom and oil boom still in place until excavation and top course compaction to final grade complete.

STORE RELOCATION

- Building pad formed, reinforcing steel installed and inspected, sanitary sewer piping installed and inspected, electrical grounding inspected. Pouring concrete today.

TEMPORARY DOCK ACCESS

- NA

BULKHEAD SHEET PILE

- Hand excavation along western half preparing for sidewalk/cap. Electrical conduit buried under and embedded in sand.
- SDRL for increased reinforcing steel requirements issued.

WATER TREATMENT PLANT

- Glacier removed carbon media and sludge in tanks. Disposed of in class 3 pile. Need proposed quantity.

EXCAVATION AND BACKFILL

- Complete throughout most of site. There is a small amount left under the existing MDP that will need to be removed with the bulkhead wall. There is a section of clay material that was left in place in this area that was not contaminated.
- Backfill is close to final grade. West area has been graded with 6-inch top course backfilled and compacted.
- Draft sampling maps and area excavation surveys are on the website.

TANK: No hold of vacuum

Ecology to discuss w/ Woods.

{LM} Glacier still providing line?

{SL} yes -

Glacier Action Item

- Class 11, exceeding amount, unsuitable,
- Costs for following:
 - Sidewalk extension
 - Bulkhead Reinforcement *CO Request for additional Qty's*
 - ORC
 - Tank Inspection
 - Permits
 - Bulkhead sidewalk/cap means and methods for pour and form.
 - Attachment/location for MDP. Tentative support system looks good but differs enough from design that Glacier will need to provide structural details (CAD) stamped and calculations if applicable from structural engineer.
 - Provide submittals for any item that is different from specs. Provide submittals for any complex or expensive items even if not different from the specs.

KJ Action Item

- SDRLs:
 - No. 37 – Reinforcing Steel. Completed.
 - No. 64 – Fuel System Products. Draft Review Completed
 - No. 39.2 – Concrete Cure Product. Completed
 - No. 59 – Septic System Products. In Review
- RFIs:
 - No. 18 – Water Pipe
- Daily reports updated on website. Photos to be uploaded today.
- MAIN DOCK CONNECTION CLARIFICATION.*

Ecology Action Item

- utility connection fees? (power/telephone)*
- Separate work order or other for permits, ORC, and tank inspection.
 - ~~Building finish elevations and grades.~~
 - ~~Replacement of sill plate with pressure treated wood.~~

3. PROGRESS QUANTITIES:

- Export:
 - Contaminated Total = 23,630.86 Tons
 - Class 2 = 1,475.91 tons
 - Class 3 = 22,154.95 tons
 - Unsuitable = 2,992 CY
 - Remaining Class 3 Export Estimate = 500 Tons
- Excavation Overburden Quantities: Total = 2,763.7 CY vs. 2,992 CY above
 - Area 01 = 81 CY (64 CY billed due to swell in Progress Payment #1)
 - Area 02 = 1,377 CY (in-place survey, reduced 209 CY for 19 truck load-outs @ 11 CY/Truck. Billed in PP#1)
 - Area 03 & 04 = 273 CY (Stockpile surveys, apply 30% swell factor)

iv. Area 05 = 1,032.7 CY (Stockpile survey, need to subtract quantity for truck load-outs. 11 CY/Truck or per tonnage? Then apply 30% swell factor to remaining amount).

- c. Compact and Backfill of Re-usable Material: Total = 144 CY (need to apply 30% swell factor)
- Area 01 = 81 CY (64 billed due to swell in Progress Payment #1)
 - Area 03 = 63 CY (need to apply 30% swell factor)

d. Import Backfill and Compaction: Total = 27,841.59 Tons

- i. Remaining Estimate = ~~300 Tons~~ 3,000 tons.

GES: includes - pit Run

- Screening
- Drain Rocks
- Sand
- CSTC

4. SAFETY:

- Weather: some rain
- Staging materials – safely and securely, safe egress/access. General housekeeping, etc.
- Securing open excavations, holes, and general construction areas during the day, night, and weekends.
- Shoring trenches and providing appropriate egress/access points. Designated competent persons.
- Following confined space work protocols monitoring air and providing ventilation if needed.

check Specs for material
pay items.

5. SCHEDULE: Approx. 2 week look ahead

- Disconnect electrical and reset MDP or replace
- Survey building foundation
- Utility line work
- Form and pour remaining concrete pads/sidewalk/cap
- Wetland planting

[AH]

• 13 days next wk

• MDP moved next wk

• Forming conc areas

• Placing utilities

6. REGULATORY CONCERNS

- Building permits 3 of 3 on website. Permit one includes hand written notes on drawings. No septic system permit.
- Inspection completed on building sanitary sewer, reinforcing steel, and electrical grounding.

7. RFI/SUBMITTALS/RFP:

- Status of RFIs:
 - RFIR 016 – Completed
 - RFIR 017 – Completed
 - RFIR 018 – In review
- Status of Submittals:
 - No. 64 – In Review
 -
- RFPs/Claims/WCDs:
 - Sheet Pile reinforcement change

8. BILLING:

- Application for Payment No. 1 & 2 completed.
- Application for payment No. 3 completed and in with Ecology.
- Change order 1 completed. – Bulkhead wall 25' increase
- Change order 2 – excavation and backfill changes in unit measurements and types. Not complete. Waiting for completion of excavation. Glacier added items to bid item 04 and can bill up to original amount to be paid before completion of change order. Cannot bill over \$1,500,000 until completion of change order No. 2.

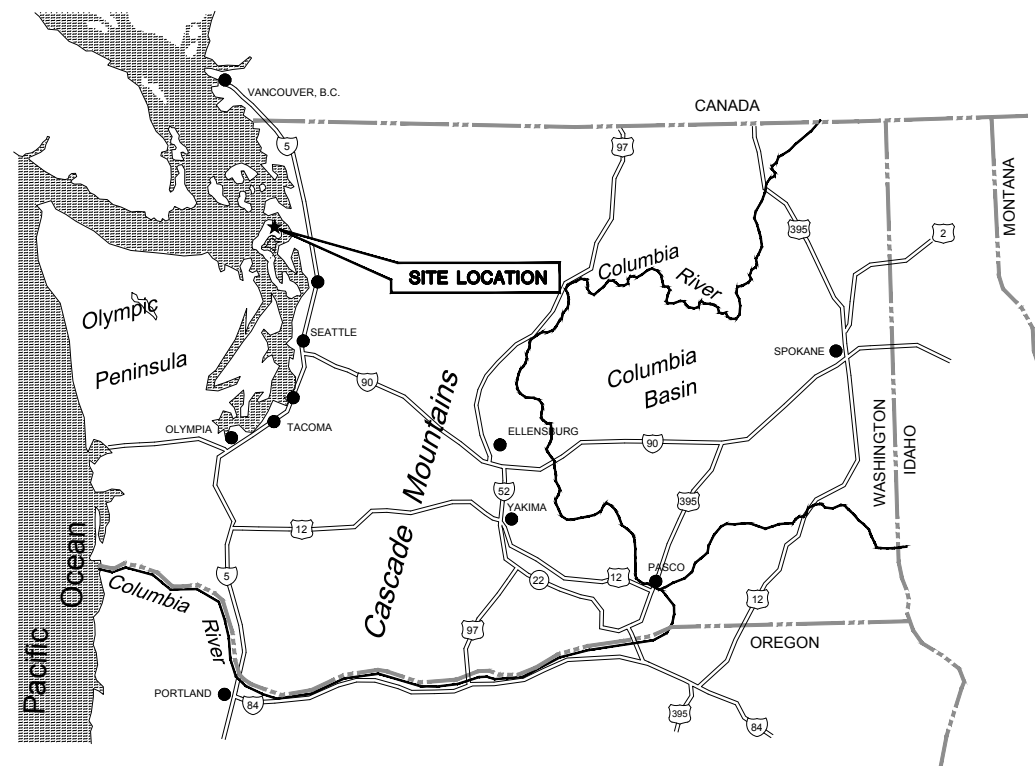
9. OTHER ISSUES:

- a. See clarification letter #1 – bulkhead linear feet increase requirement.

Appendix M

Record Drawings

CORNET BAY MARINA REMEDIATION OAK HARBOR, WASHINGTON



REGIONAL MAP

DRAWING INDEX

GENERAL SHEETS

- G1 COVER SHEET
- G2 LEGEND, ABBREVIATIONS, NOTES, AND SYMBOLS

CIVIL SHEETS

- C1 SITE PLAN
- C2 SECTIONS AND DETAILS
- C3 FOUNDATIONS, WALKWAYS, AND OTHER FEATURES
- C4 WETLAND MITIGATION

STRUCTURAL SHEETS

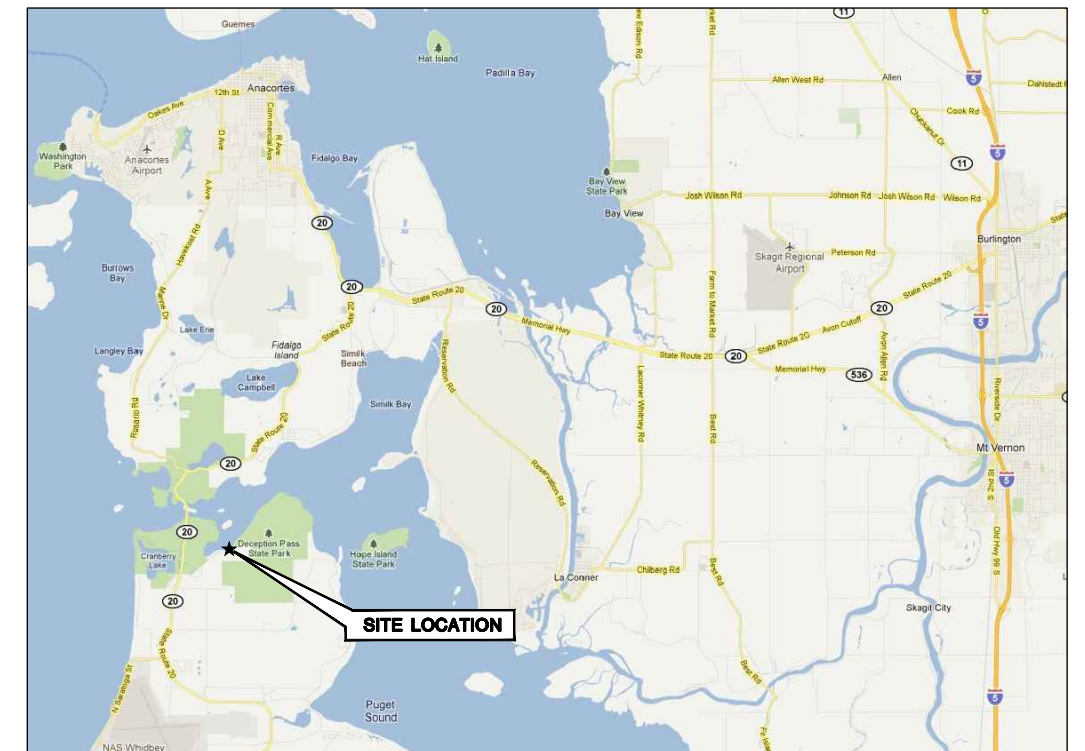
- S1 GENERAL STRUCTURAL NOTES AND ABBREVIATIONS
- S2 BULKHEAD PLAN
- S3 BULKHEAD SECTION VIEWS
- S4 BULKHEAD AND FOUNDATION DETAILS
- S5 FLOAT SUPPORT FRAMING AND SIGN POLE BASE DETAILS
- S6 SHEET PILE PROFILE

ELECTRICAL SHEETS

- E1 ELECTRICAL ABBREVIATIONS AND SYMBOLS
- E2 ELECTRICAL SINGLE LINE DIAGRAM
- E3 ELECTRICAL SITE PLAN
- E4 ELECTRICAL DETAILS

PROCESS AND INSTRUMENTATION DIAGRAM SHEETS

- I1 P&ID LEGEND, ABBREVIATIONS, NOTES, AND SYMBOLS
- I2 P&ID -- FUELING SYSTEM



VICINITY MAP

BRYANH 8/20/2014 3:01 PM

P:\CAD\131-1396010-00 Ecology-Cornet Bay Remedial Action\1396010_G01.dwg

USE OF DOCUMENTS
THIS DOCUMENT, INCLUDING THE INCORPORATED DESIGNS, IS AN INSTRUMENT OF SERVICE FOR THIS PROJECT AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF KENNEDY/JENKS CONSULTANTS.

RECORD DRAWING			
These Record Drawings have been prepared based on information provided by the contractor and others. Kennedy/Jenks Consultants has not verified the accuracy or completeness of information provided to them and does not warrant the accuracy or completeness of these Record Drawings. Users of these Record Drawings assume all risk of loss resulting from their use.			
Users of these documents provided in electronic form are cautioned against use without first determining whether changes may have been made to these documents subsequent to their preparation by Kennedy/Jenks Consultants. Original hard copies of these documents are the only true version of the Record Drawings prepared by Kennedy/Jenks Consultants.			
-	RECORD DRAWING	AUG 2014	KJ
NO.	REVISION	DATE	BY

SCALES
0 1" / 25mm
IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.

DESIGNED	RCG
DRAWN	BBH
CHECKED	RCG

WASHINGTON STATE DEPARTMENT OF ECOLOGY
CORNET BAY MARINA REMEDIATION
Kennedy/Jenks Consultants
FEDERAL WAY, WA

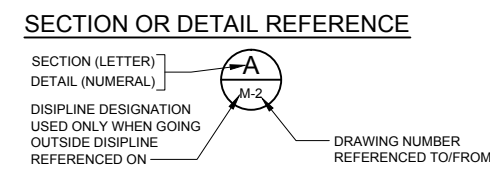
COVER SHEET

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JOB NO.	1396010.00
DATE	AUGUST 2014
SHEET	OF
G1	

8/12/2014 12:15 PM
 BRVANH
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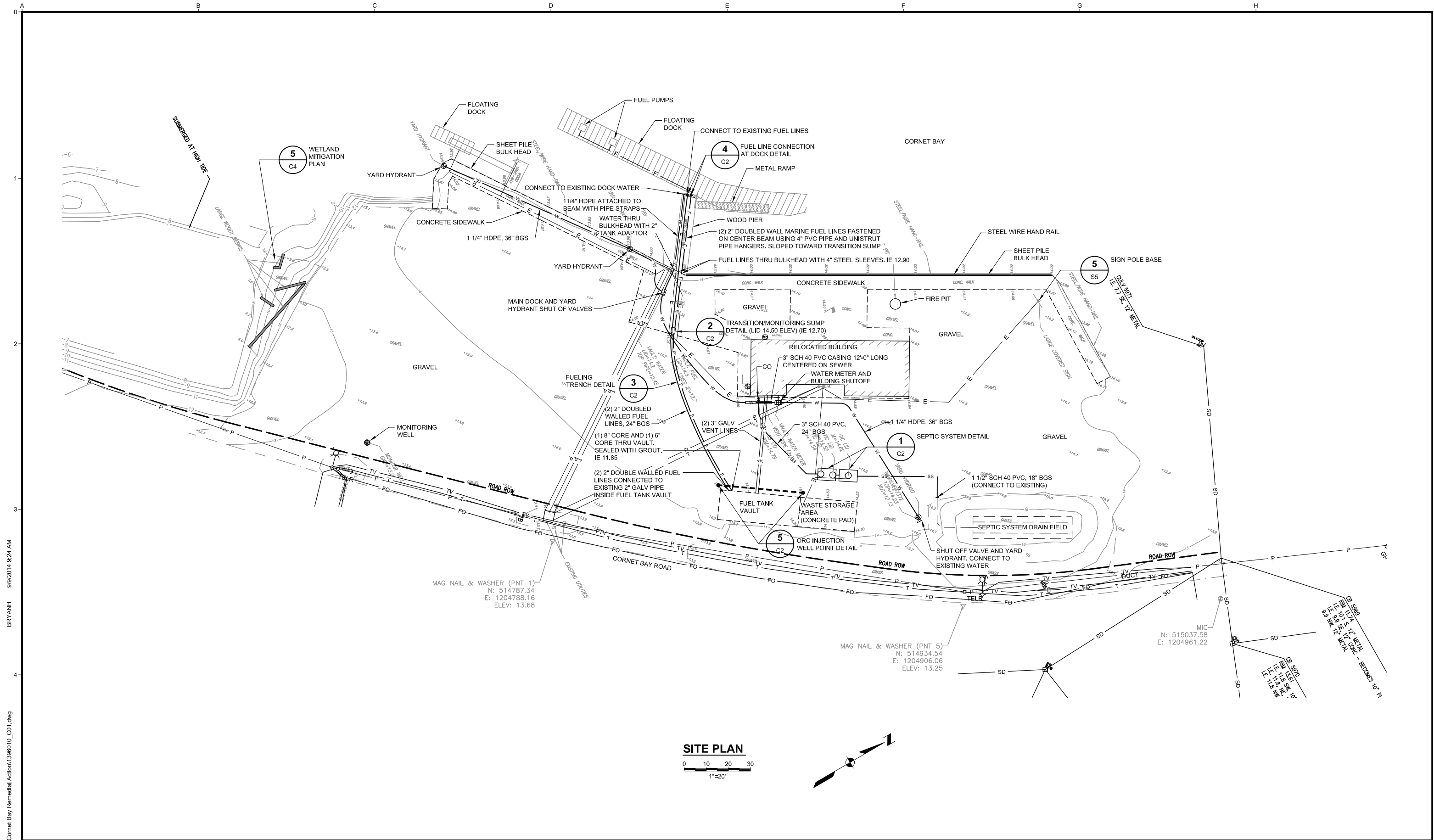
CIVIL/GENERAL SYMBOLS	
FIRE PROTECTION WATER (EXISTING) — FW — FW — FW —	BENCH MARK
SEWER (EXISTING) — SS — SS — SS —	SOIL BORING, IDENTIFICATION NUMBER
STORM DRAIN (EXISTING) — SD — SD — SD —	SOIL TEST PIT, IDENTIFICATION NUMBER
WATER LINE (EXISTING) — W —	SPOT ELEVATION
RECLAIMED WATER (EXISTING) — RW —	ELECTROLYSIS TEST STATION
GAS LINE (EXISTING) — G — G — G — G —	WATER METER
TELEPHONE LINE (EXISTING) — T — T — T —	FIRE DEPT. CONNECTION
ELECTRICAL LINE (EXISTING) — E — E — E —	FIRE HYDRANT
OVERHEAD POWER (EXISTING) — OH — OH — OH —	UTILITY BOX (AS LABELED)
PUBLIC UTILITY DISTRICT (EXISTING) — PUD —	POWER POLE
CABLE TV (EXISTING) — CTV —	STREET LIGHT
CROSSING UTILITIES (EXISTING)	STREET LIGHT AND TRAFFIC SIGNAL
FENCE — X — X —	YARD LIGHT
PROPERTY LINE/RIGHT-OF-WAY — — — — —	TRAFFIC SIGNAL
EASEMENT — — — — —	TELEPHONE RISER
CONTRACTORS WORK AREA LIMITS — WA —	GUY ANCHOR
CENTERLINE — — — — —	CATCH BASIN
CULVERT WITH END SECTIONS	DROP INLET
HANDRAIL OR GUARDRAIL	CLEAN OUT
WATER SURFACE	DRIVEWAY
GRADE CHANGE LINE — — — — —	HANDICAP ACCESS RAMP
EDGE OF GRAVEL — — — — —	CURVE NO.
RIDGE LINE	SURVEY PANEL
FLOW LINE	MONUMENT OR SURVEY POINT
GRADED SLOPE	SECTION CORNER
DITCH OR SWALE	ELEVATION MARK (REFERENCE)
CONTOUR MAJOR (NEW) — 110 —	ELEVATION MARK (DESIGN)
CONTOUR MINOR (NEW) — — — — —	FLAG NOTE
CONTOUR MAJOR (EXIST) — 110 —	
CONTOUR MINOR (EXIST) — — — — —	
STRUCTURE OR PIPE (NEW)	
STRUCTURE OR PIPE	
DEMOLITION	
CONCRETE IN SECTION	
STEEL IN SECTION	
WOOD IN SECTION	
GRATING IN PLAN	
CHECKERED PLATE IN PLAN	
GRAVELED AREA IN PLAN OR SECTION	
SAND	
BRICK OR CMU IN SECTION	
GRADE	
FILL	
ASPHALT CONCRETE (IN PLAN)	
ASPHALT CONCRETE (IN SECTION)	

ABBREVIATIONS			
'	INCHES	MANUF	MANUFACTURER
&	FEET	MAT'L	MATERIAL
@	AND	MAX	MAXIMUM
Ø	AT	MHHW	MEAN HIGH HIGH WATER
AC	CENTERLINE	MIC	MONUMENT IN CASE
AGG	DIAMETER	MISC	MISCELLANEOUS
APPROX	ASPHALT CONCRETE	MIN	MINIMUM
ASTM	AGGREGATE	MH	MANHOLE
BE	APPROXIMATE	N	NORTH, NORTHING
BMP	AMERICAN SOCIETY FOR TESTING AND MATERIALS	OC	ON CENTER
BOC	BOTTOM ELEVATION	OD	OUTSIDE DIAMETER
BOP	BEST MANAGEMENT PRACTICES	OSHA	OCCUPATION SAFETY AND HEALTH ACT
BOT	BOTTOM OF CONCRETE	OWS	OIL/WATER SEPARATOR
CB	BOTTOM OF PIPE	PK	PK NAIL (SURVEY CONTROL POINT MARKER)
CO	BOTTOM	PVC	POLYVINYL CHLORIDE
CONC	CATCH BASIN	RE	RIM ELEVATION
CONN	CLEAN OUT	RR	RAIL ROAD
CPP	CONCRETE	S	SOUTH, SLOPE
CSTC	CONNECTION	SCH	SCHEDULE
DEMO	CORRUGATED PLASTIC PIPE	SS	SEPTIC SYSTEM
DIA	CRUSHED SURFACING TOP COURSE	TESC	TEMPORARY EROSION AND SEDIMENT CONTROL
DWG	DEMOLISH	TOC	TOP OF CONCRETE
E	DIAMETER	TYP	TYPICAL
(E), EXIST	DRAWING	V	VENT
EL, ELEV	EAST, EASTING	W	WATER, WEST
FT	EXISTING		
FUEL	ELEVATION		
GAL	FEET		
IE, IN EL	FUEL		
	GALLON		
	INVERT ELEVATION		



- NOTES:**
- THIS IS A GENERALIZED LEGEND SHEET. THIS CONTRACT MAY NOT USE ALL INFORMATION SHOWN.
 - INFORMATION SHOWN MAY NOT BE ALL INCLUSIVE. SEE ALSO ABBREVIATIONS, G3.
 - FOR ADDITIONAL SYMBOLS SEE SHEETS A1, M6, E1, AND P1.

<p>USE OF DOCUMENTS</p> <p>THIS DOCUMENT, INCLUDING THE INCORPORATED DESIGNS, IS AN INSTRUMENT OF SERVICE FOR THIS PROJECT AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF KENNEDY/JENKS CONSULTANTS.</p>	<p>RECORD DRAWING</p> <p>These Record Drawings have been prepared based on information provided by the contractor and others. Kennedy/Jenks Consultants has not verified the accuracy or completeness of information provided to them and does not warrant the accuracy or completeness of these Record Drawings. Users of these Record Drawings assume all risk of loss resulting from their use.</p> <p>Users of these documents provided in electronic form are cautioned against use without first determining whether changes may have been made to these documents subsequent to their preparation by Kennedy/Jenks Consultants. Original hard copies of these documents are the only true version of the Record Drawings prepared by Kennedy/Jenks Consultants</p>		<p>SCALES</p> <p>1" = 25mm</p> <p>IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.</p>	<p>DESIGNED: RCG</p> <p>DRAWN: BBH</p> <p>CHECKED: RCG</p>	<p>WASHINGTON STATE DEPARTMENT OF ECOLOGY</p> <p>CORNET BAY MARINA REMEDIATION</p> <p>Kennedy/Jenks Consultants FEDERAL WAY, WA</p>	<p>LEGEND, ABBREVIATIONS, NOTES, AND SYMBOLS</p>	<p>FILE NAME: 1396010_G02</p> <p>JOB NO.: 1396010.00</p> <p>DATE: AUGUST 2014</p> <p>SHEET OF: G2</p>						
	<table border="1"> <thead> <tr> <th>NO.</th> <th>REVISION</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>RECORD DRAWING</td> <td>AUG 2014</td> <td>KJ</td> </tr> </tbody> </table>	NO.	REVISION	DATE	BY	-	RECORD DRAWING	AUG 2014	KJ				
NO.	REVISION	DATE	BY										
-	RECORD DRAWING	AUG 2014	KJ										



SITE PLAN
 0 10 20 30
 1"=20'

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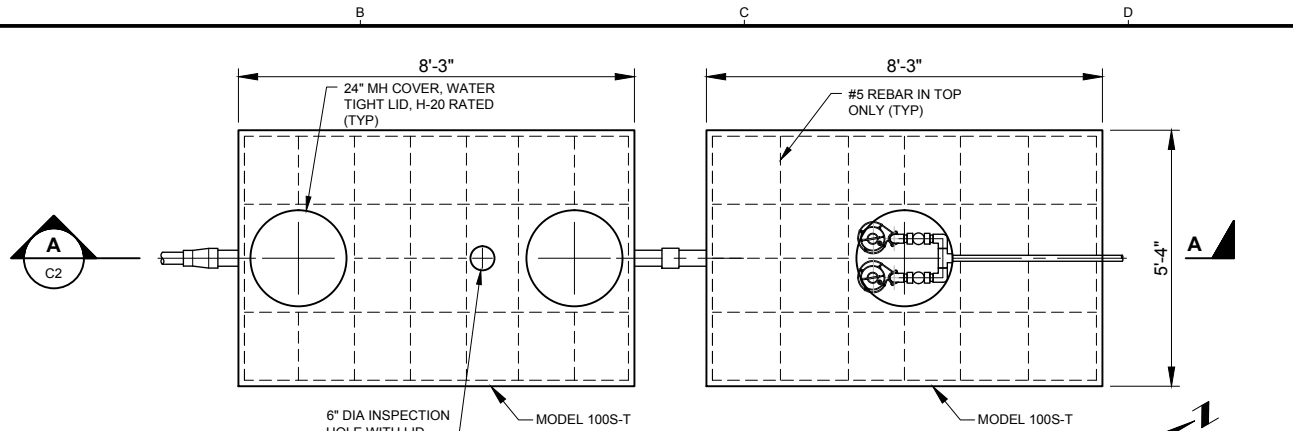
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NO.	REVISION	DATE	BY
-	RECORD DRAWING	AUG 2014	KJ

SCALES	
0	1"
0	25mm
IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.	

DESIGNED	JMF
DRAWN	BBH
CHECKED	JMF

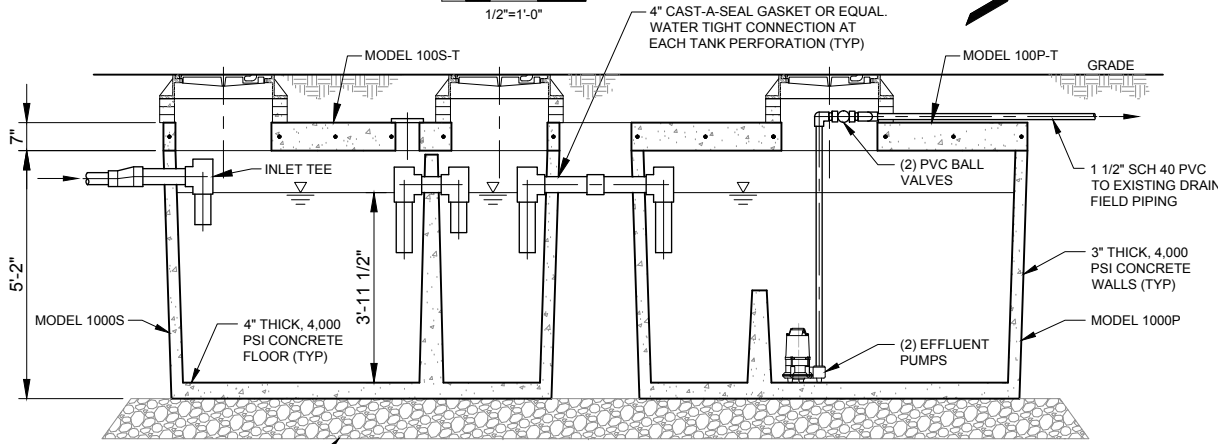
WASHINGTON STATE DEPARTMENT OF ECOLOGY
CORNET BAY MARINA REMEDIATION
 Kennedy/Jenks Consultants
 FEDERAL WAY, WA

SITE PLAN
 FILE NAME: 1396010_C01
 JOB NO.: 1396010.00
 DATE: AUGUST 2014
 SHEET OF: **C1**



SEPTIC SYSTEM DETAIL 1

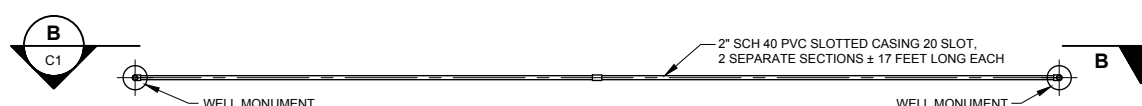
0 1 2 3
1/2"=1'-0"



SEPTIC SYSTEM SECTION A

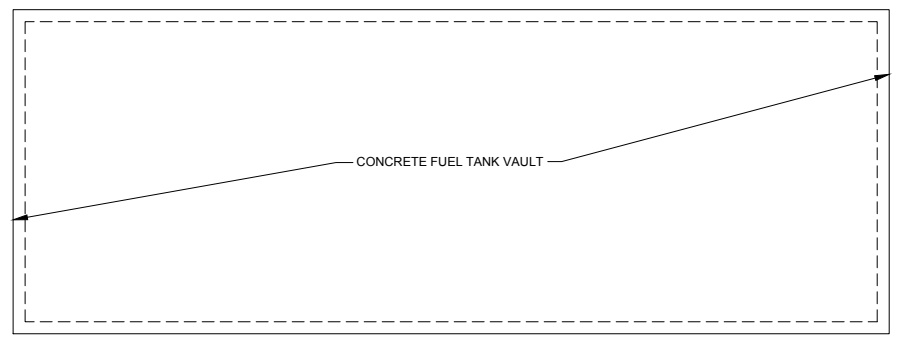
0 1 2 3
1/2"=1'-0"

NOTE:
CONTRACTOR PROVIDED SEPTIC TANKS MODELS 1000S, 1000S-T (LID), 1000P, AND 1000P-T (LID) FROM KRIEG CONCRETE PRODUCTS INC. DAVID R. NYLUND, PE, OF EK ENGINEERING PROVIDED ENGINEERING CERTIFICATION OF EQUIVALENT REINFORCEMENT OF TANK SIDEWALLS, END WALLS, AND FLOORS USING NOVOMESH (®) 950 FIBER IN LIEU OF STEEL REINFORCEMENT.



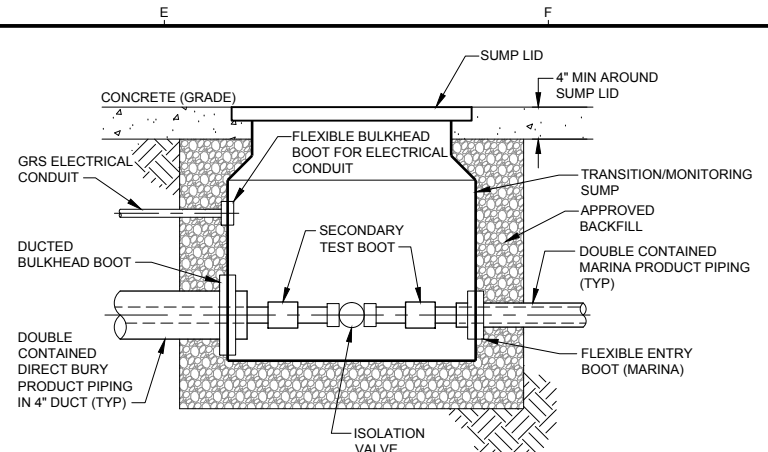
ORC INJECTION WELL POINT DETAIL 5

0 3 6
1/4"=1'-0"



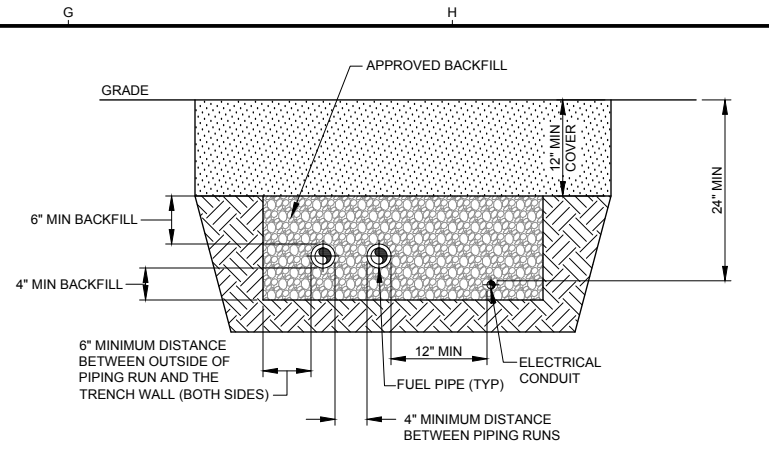
ORC INJECTION WELL POINT SECTION 5

0 3 6
1/4"=1'-0"



TRANSITION/MONITORING SUMP DETAIL 2

0 1
1"=1'-0"



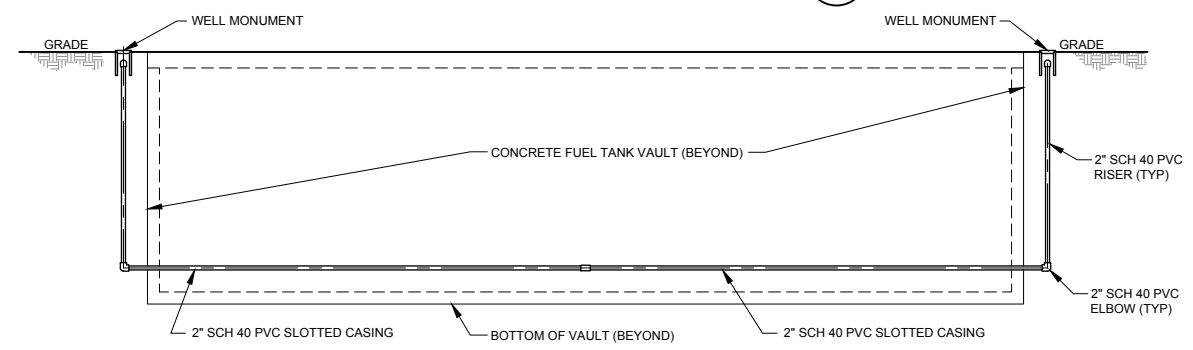
FUELING TRENCH DETAIL 3

0 1
1"=1'-0"



FUEL LINE CONNECTION AT DOCK DETAIL 4

C1

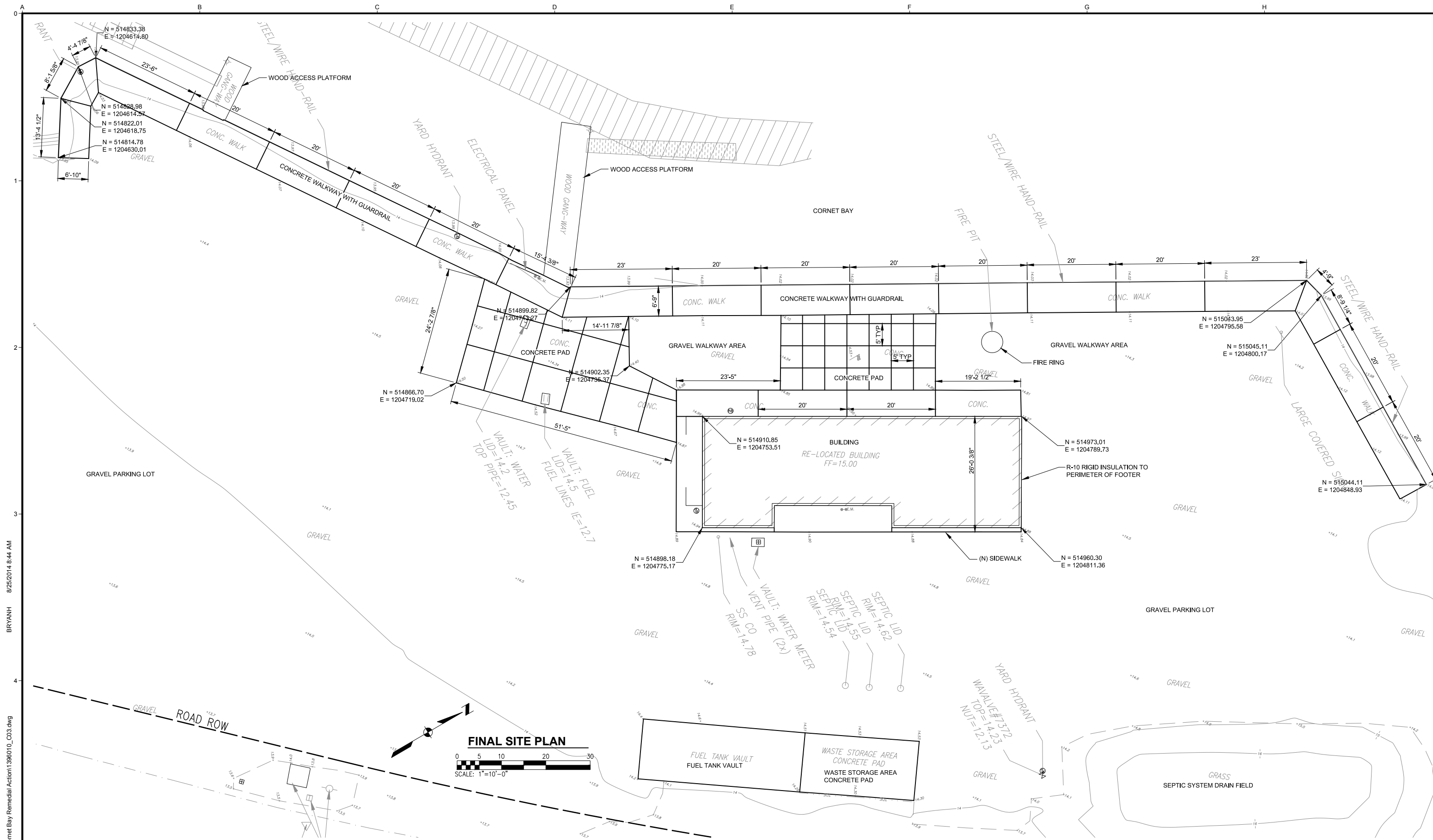


ORC INJECTION WELL POINT SECTION 5

0 3 6
1/4"=1'-0"

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	<p>NO.</p> <p>REVISION</p>	<p>AUG 2014</p> <p>DATE</p>	<p>KJ</p> <p>BY</p>		<p>DRAWN</p> <p>BBH</p>			<p>JOB NO.</p> <p>1396010.00</p>



FINAL SITE PLAN
 0 5 10 20 30
 SCALE: 1"=10'-0"

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 BRYANH
 8/25/2014 8:44 AM

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-	RECORD DRAWING	AUG 2014	KJ

SCALES
 0 1" 25mm
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DESIGNED	RCG
DRAWN	BBH
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 FEDERAL WAY, WA





FOUNDATIONS, WALKWAYS, AND OTHER FEATURES

FILE NAME	1396010_C3
JOB NO.	1396010.00
DATE	AUGUST 2014
SHEET OF	C3



PREVIOUS CONDITIONS (VIEW TO SOUTHWEST)

LEGEND

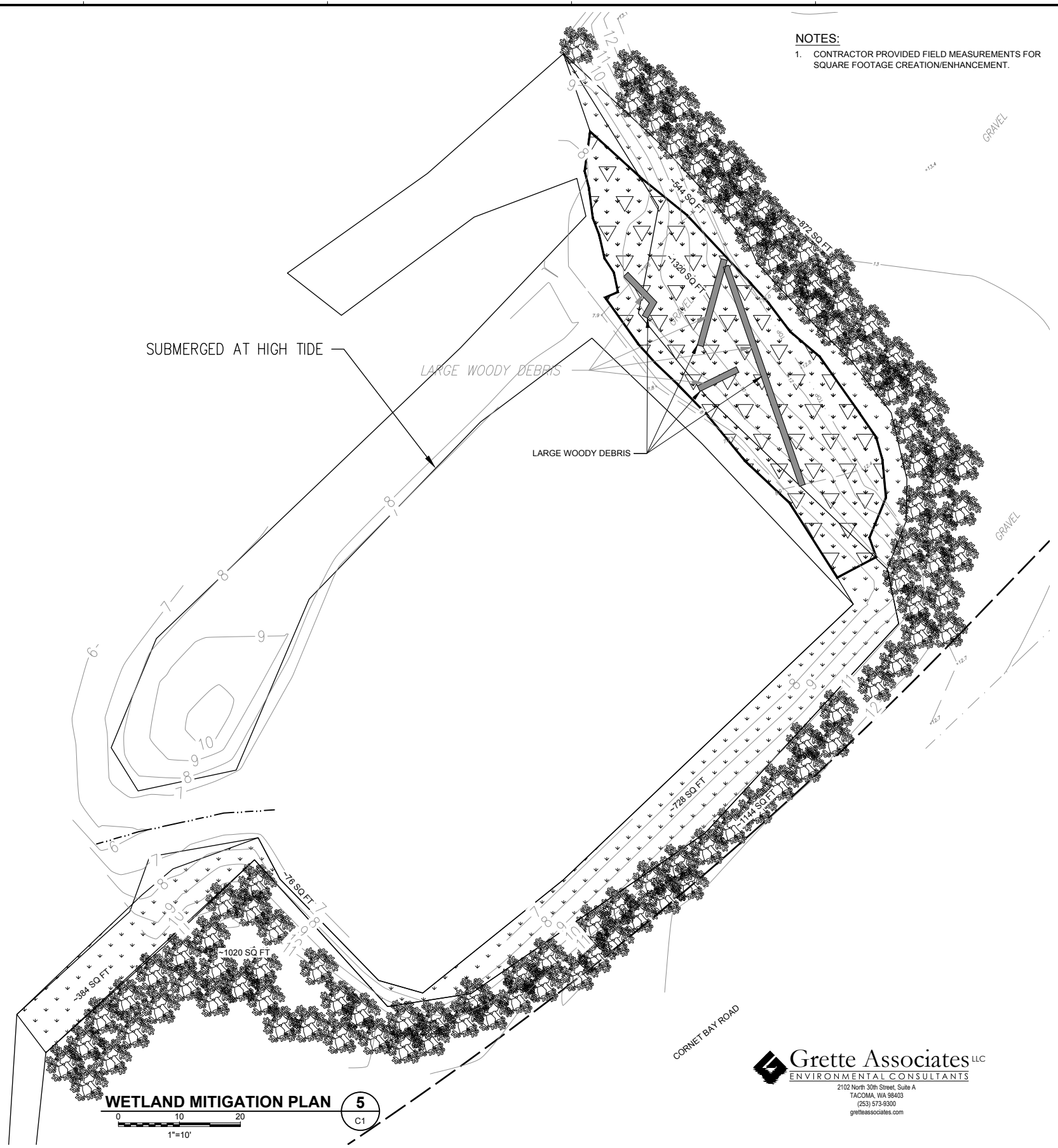
-  AQUATIC HABITAT CREATION ~ 1320 SF (APPROX.)
-  WETLAND ENHANCEMENT ~1732 SF (APPROX.)
-  WETLAND BUFFER ENHANCEMENT ~3036 SF (APPROX.)
-  MEAN HIGHER HIGH WATER 9.00 NAVD 88 (APPROX.)

NOTES:

1. THE PROPOSED ENHANCEMENT AREAS WILL BE PLANTED WITH NATIVE SHRUB SPECIES.
2. THREE LARGE WOODY DEBRIS (LWD) STRUCTURES WILL BE INSTALLED FOLLOWING GRADING. LWD MAY BE SALVAGED ON SITE IF LOCATED ALONG SHORELINE TO BE EXCAVATED.
3. EVENING WORK MAY BE POSSIBLE IF A VARIANCE CAN BE OBTAINED FROM ISLAND COUNTY.



EXISTING CONDITIONS (VIEW TO SOUTHWEST)



- NOTES:**
1. CONTRACTOR PROVIDED FIELD MEASUREMENTS FOR SQUARE FOOTAGE CREATION/ENHANCEMENT.

WETLAND MITIGATION PLAN 5

0 10 20
1"=10'

Grette Associates LLC
ENVIRONMENTAL CONSULTANTS
2102 North 30th Street, Suite A
TACOMA, WA 98403
(253) 573-9300
gretteassociates.com

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NO.	REVISION	DATE	BY

SCALES
0 1"
0 25mm
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DESIGNED	JWF
DRAWN	BBH
CHECKED	RCG

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CORNET BAY MARINA REMEDIATION
Kennedy/Jenks Consultants
FEDERAL WAY, WA

WETLAND MITIGATION

FILE NAME	1396010_C4
JOB NO.	1396010.00
DATE	AUGUST 2014
SHEET OF	C4

GENERAL STRUCTURAL NOTES (GSN)

BUILDING CODE:

2012 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC), WITH STATE OF WASHINGTON AMENDMENTS SHALL BE USED AND SUPPLEMENTED WITH (ASCE) 7-10.

BUILDING CODE REFERENCES:

ALL CODE REFERENCES HEREAFTER SHALL CORRESPOND TO THE FOLLOWING EDITIONS, U.N.O.:

MATERIAL	CODE EDITION
CONCRETE (ACI 318)-11.	BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY.
REINFORCING STEEL	2004 ACI DETAILING MANUAL (ACI SP-66). 14TH EDITION OF (AISC) STEEL CONSTRUCTION MANUAL.
WELDING	STRUCTURAL WELDING CODE – STEEL, (AWS) D1.1-04.

LOADS:

ROOF:
ROOF DESIGN SNOW LOAD = 25 PSF.
ROOF DEAD LOAD = 20 PSF.

FLOOR:
COMMERCIAL FLOOR LIVE LOAD = 100 PSF (REDUCIBLE).

WIND:
WIND SPEED = 85 MPH, EXPOSURE C, IMPORTANCE FACTOR Iw = 1.0.

SEISMIC:
IMPORTANCE FACTOR Ie = 1.0.
LATITUDE = 48.40; LONGITUDE = 122.63.

FOUNDATIONS:

GEOTECHNICAL INVESTIGATION REPORT REGARDING SHEET PILE BULKHEAD WALL PREPARED BY GRI (REPORT W1115, DATED 19 JULY 2013).

SPREAD FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED SOIL OR CONTROLLED COMPACTED FILL 18" MINIMUM BELOW FINISHED GRADE. FINISHED GRADE IS DEFINED AS TOP OF SLAB FOR INTERIOR FOOTINGS AND LOWEST ADJACENT GRADE WITHIN 5'-0" FOR PERIMETER FOOTINGS. DESIGN SOIL BEARING VALUE = 1,500 PSF.

CONCRETE:

MINIMUM 28-DAY STRENGTH OF CONCRETE SHALL BE AS FOLLOWS:

SLABS ON GRADE:	4,000 PSI
ALL OTHER CONCRETE:	4,000 PSI

ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AT TRENCHES, FLOOR DUCTS, TURNDOWNS, ETC. MAXIMUM SLUMP IS 4 1/2" FOR CONCRETE WITHOUT PLASTICIZER. IF PLASTICIZER IS USED, A HIGHER FINAL SLUMP MAY BE ALLOWED UPON STRUCTURAL ENGINEER'S APPROVAL. MAXIMUM WATER/CEMENT RATIO (W/C) SHALL BE 0.55 FOR GENERAL CONCRETE, AND 0.47 FOR SLABS. USE 3/4" MINUS COARSE AGGREGATE FOR CONCRETE. PROVIDE AIR ENTRAINMENT (5% ± 1%) IN CONCRETE EXPOSED TO FREEZE-THAW ACTION. ALL CONCRETE FLATWORK SHALL BE FIBER-REINFORCED.

UNLESS APPROVED OTHERWISE IN WRITING BY THE ENGINEER, ALL CONCRETE SLABS ON GRADE SHALL BE BOUND BY SAWCUT CONTROL JOINTS, CONSTRUCTION JOINTS OR EXPANSION JOINTS, AS SHOWN ON THE FOUNDATION PLAN, SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 225 SQUARE FEET.

FLY ASH, IF PERMITTED BY ENGINEER, SHALL BE LIMITED TO 18% OF CEMENTITIOUS MATERIALS AND SHALL HAVE A REPLACEMENT FACTOR OF 1.2 RELATIVE TO CEMENT REPLACED. NO FLY ASH ADDITIVES SHALL BE USED IN FLATWORK OR ARCHITECTURALLY EXPOSED CONCRETE.

REINFORCING STEEL FOR CONCRETE:

USE ASTM A615, GRADE 60 (FY = 60 KSI), DEFORMED BARS FOR ALL BARS. ALL GRADE 60 REINFORCING TO BE WELDED SHALL BE ASTM A706. NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE WITH THE STRUCTURAL ENGINEER. ACI 318 SHALL APPLY. CLEAR CONCRETE COVERAGES AS FOLLOWS:

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	.3"
#6 OR LARGER	.2"
#5 AND SMALLER	.1 1/2"
ALL OTHER PER ACI 318.	

LAP SPLICES IN CONCRETE:

LAP SPLICES, U.N.O., SHALL BE CLASS "B" TENSION LAP SPLICES PER ACI 318. STAGGER SPLICES A MINIMUM OF (1) LAP LENGTH. ALL REINFORCING SHALL BE CHAIRED TO ENSURE PROPER CLEARANCES. SUPPORT OF FOUNDATION REINFORCING MUST PROVIDE ISOLATION FROM MOISTURE AND CORROSION.

ALL SPLICE LOCATIONS SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT ALL CORNERS AND INTERSECTIONS PER TYPICAL DETAILS. REINFORCING BAR SPACING GIVEN ARE MAXIMUM ON CENTERS. ALL BARS SHALL BE PER ACI SP-66. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION WITH STANDARD 90-DEGREE HOOKS, U.N.O. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE.

FIBER REINFORCING:

FIBER-REINFORCED CONCRETE SHALL CONTAIN 1.5 POUNDS PER CY FIBERS SUCH AS "FIBERMESH 300" POLYPROPYLENE FIBRILLATED FIBERS BY PROPEX CONCRETE SYSTEMS, OR APPROVED EQUIVALENT. ADD TO CONCRETE MIX PER THE MANUFACTURER'S INSTRUCTIONS. FIBERS SHALL CONFORM TO ASTM C1116, TYPE III.

DRYPACK:

DRYPACK SHALL BE 5,000 PSI NON-SHRINK GROUT, FIVE STAR OR EQUIVALENT. INSTALL DRYPACK UNDER BEARING PLATES BEFORE FRAMING MEMBER IS INSTALLED.

STRUCTURAL STEEL:

ALL CONSTRUCTION SHALL BE PER AISC STEEL CONSTRUCTION MANUAL.

ALL STRUCTURAL STEEL SHALL BE AS FOLLOWS:

STEEL SHEET PILES	A.S.T.M A572/A572M	FY = 50 KSI
HOLLOW SQUARE OR RECTANGULAR STEEL	A.S.T.M. A554, TYPE 304	FY = 30 KSI
ALL OTHER STRUCTURAL STEEL SHAPES	A.S.T.M. A276, TYPE 304	FY = 50 KSI

BOLTS:

ALL BOLTS, ANCHOR BOLTS, EXPANSION BOLTS, ETC., SHALL BE INSTALLED WITH STEEL WASHERS AT FACE OF WOOD, OR AT SLOTTED HOLES IN STEEL SECTIONS, U.N.O. ALL BOLTS SHALL CONFORM TO ASTM A307, GRADE A, GALVANIZED U.N.O.

ANCHOR RODS:

ALL ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 36, GALVANIZED, U.N.O.

EXPANSION BOLTS:

ALL EXPANSION BOLTS SHALL HAVE CURRENT ICC APPROVAL FOR MATERIAL INTO WHICH INSTALLATION TAKES PLACE, SUCH AS HILTI KWIK BOLT TZ (ICC ESR-1917) AND SIMPSON STRONG-BOLT WEDGE ANCHOR (ICC ESR-1771) OR APPROVED EQUIVALENT. BOLTS SHALL BE GALVANIZED OR STAINLESS STEEL.

ADHESIVE ANCHORS:

ALL ADHESIVE ANCHORS SHALL HAVE CURRENT ICC APPROVAL FOR MATERIAL INTO WHICH INSTALLATION TAKES PLACE, SUCH AS HILTI HIT-RE 500-SD (ICC ESR-2322) AND SIMPSON SET-XP (ICC ESR-2508) OR APPROVED EQUIVALENT. THREADED RODS SHALL BE GALVANIZED OR STAINLESS STEEL.

WELDING:

WELDERS HOLDING VALID W.A.B.O. CERTIFICATES AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES SHALL PERFORM ALL WELDING. CERTIFICATES SHALL BE THOSE ISSUED BY AN ACCEPTED TESTING AGENCY.

ALL WELDING DONE BY E70 SERIES LOW HYDROGEN RODS, U.N.O. FOR GRADE 60 REINFORCING BARS, USE E90 SERIES. ALL WELDING SHALL BE PER LATEST AWS STANDARDS.

THESE DRAWINGS DO NOT DISTINGUISH BETWEEN SHOP AND FIELD WELDS; THE CONTRACTOR MAY SHOP WELD OR FIELD WELD AT THEIR DISCRETION. SHOP WELDS AND FIELD WELDS SHALL BE SHOWN ON THE SHOP DRAWINGS SUBMITTED FOR REVIEW. ALL FULL/COMPLETE PENETRATION WELDS SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT TESTING LABORATORY.

HANDRAILING:

HANDRAIL POSTS AND RAILS SHALL BE WELDED CONSTRUCTION, SHOP FABRICATED FROM STAINLESS STEEL, ASTM A554. FIT POST TO TOP OF RAIL AND INTERMEDIATE RAIL TO POST. MITER OR BEND RAILS CONTINUOUSLY AT CORNERS, EXCEPT AT CORNERS WITH POSTS. GROOVE WELD ALL JOINTS AND GRIND SMOOTH. SPLICES IN RAILS, AS REQUIRED, SHALL OCCUR WITHIN 1/6TH OF THE SPAN NEXT TO POSTS, U.N.O. FIELD WELDS SHALL BE POLISHED AND BUFFED, AND SHALL HAVE A PROTECTIVE COATING APPLIED IN ACCORDANCE WITH THESE GENERAL STRUCTURAL NOTES. VENT AND DRAIN HOLES SHALL BE PROVIDED AS INDICATED IN ASTM A385.

SHOP DRAWINGS:

SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY SPECIFICATIONS.

THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS SHALL BE FLAGGED UPON CONTRACTOR'S REVIEW.

FIELD VERIFY ALL DIMENSIONS.

MANUFACTURER OR FABRICATOR SHALL CLOUD ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DOCUMENTS. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW, U.N.O.

THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANY TIME BEFORE OR AFTER SHOP DRAWING REVIEW.

THE SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER SHALL NOT BE CONSIDERED CHANGES TO CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ITEMS ARE CONSTRUCTED TO CONTRACT DOCUMENTS.

THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY.

REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. CONTRACTOR HAS THE RESPONSIBILITY OF THE CORRECTNESS OF ALL APPROVAL DRAWINGS.

GENERAL:

THE STRUCTURAL CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO BRACING AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO NOR SHALL OBSERVATION VISITS TO THE SITE INCLUDE INSPECTION OF THESE ITEMS.

CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS OR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDA, U.N.O.

ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.

OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF AN OPTION IS CHOSEN, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES AND SHALL COORDINATE ALL DETAILS.

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.

CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS AND ELEVATIONS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE ENGINEER.

TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON PLANS, BUT APPLY, U.N.O.

WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND/OR SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.

ANY ENGINEERING DESIGN, PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, SHALL BEAR THE SEAL OF A REGISTERED ENGINEER RECOGNIZED BY THE BUILDING CODE JURISDICTION OF THIS PROJECT.

STRUCTURAL OBSERVATION:

STRUCTURAL OBSERVATION IS REQUIRED FOR ALL OF THE ITEMS LISTED BELOW PER IBC SECTION 1710:

- STEEL SHEET PILE INSTALLATION.

THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM BY A REGISTERED DESIGN PROFESSIONAL FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES AND AT A COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTION REQUIRED BY IBC SECTIONS 110 OR 1704.

THE CONTRACTOR SHALL PROVIDE THE ENGINEER ADEQUATE NOTICE TO SCHEDULE APPROPRIATE SITE VISITS FOR STRUCTURAL OBSERVATION.

SPECIAL STRUCTURAL INSPECTION:

SPECIAL INSPECTION IS TO BE PROVIDED FOR THE ITEMS LISTED BELOW IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE BUILDING SAFETY DEPARTMENT. "SPECIAL STRUCTURAL INSPECTION" SHALL NOT RELIEVE THE OWNER OR THEIR AGENT FROM REQUESTING THE INSPECTIONS REQUIRED BY IBC SECTION 110.3. SPECIAL INSPECTION IS REQUIRED PER SECTION 1704 FOR THE FOLLOWING:

- CONCRETE:
 - DURING THE TAKING OF TEST SPECIMENS.
 - DURING THE PLACEMENT OF ALL REINFORCED CONCRETE, U.N.O.
 - VERIFICATION OF CURING TEMPERATURE AND TECHNIQUE (PERIODIC).
 - NO INSPECTION IS REQUIRED FOR SLABS ON GRADE.
- BOLTS IN CONCRETE:
 - DURING THE PLACING OF CONCRETE AROUND BOLTS.
- REINFORCING STEEL (PERIODIC):
 - DURING THE PLACING OF REINFORCING STEEL FOR ALL CONCRETE REQUIRED TO HAVE SPECIAL INSPECTION NOTED ABOVE.
- WELDING:
 - VISUAL INSPECTION OF ALL FIELD WELDS.
 - NON-DESTRUCTIVE TESTING OF ALL COMPLETE PENETRATION WELDS.
- MECHANICALLY STABILIZED EARTH SYSTEM
 - DURING PLACEMENT OF ALL MECHANICALLY STABILIZED EARTH SYSTEMS.
 - SPECIAL INSPECTION SHALL BE BY THE GEOTECHNICAL ENGINEER.
- DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
 - THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS TO THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.
 - PER IBC SECTION 1704.1.2: THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE ENGINEER OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED TO THE DESIGN AUTHORITY AND THE BUILDING OFFICIAL. SUBMIT A FINAL REPORT AS REQUIRED.
 - UPON COMPLETION OF THE ASSIGNED WORK, THE ENGINEER SHALL COMPLETE AND SIGN THE APPROPRIATE FORMS CERTIFYING THAT, TO THE BEST OF THEIR KNOWLEDGE, THE WORK IS IN CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.

FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL ENGINEER PRIOR TO START OF CONSTRUCTION.

DEFERRED SUBMITTALS:

SHOP DRAWING SUBMITTALS REQUIRED BY THESE GENERAL STRUCTURAL NOTES WHICH CONTAIN DESIGN CALCULATIONS SEALED BY A REGISTERED ENGINEER OTHER THAN THE ENGINEER OF RECORD SHALL BE SUBMITTED DURING CONSTRUCTION TO THE BUILDING OFFICIAL FOR REVIEW. THE DOCUMENTS WILL FIRST BE REVIEWED BY THE STRUCTURAL ENGINEER OF RECORD AND DETERMINED TO BE IN GENERAL CONFORMANCE WITH THE BUILDING DESIGN. THESE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

THE FOLLOWING ITEMS SHALL BE SUBMITTED PER THIS SECTION:

MECHANICALLY STABILIZED EARTH SYSTEM

ABBREVIATIONS

A.B.C.	AGGREGATE BASE COURSE	H/C	HOLLOW CORE
A.F.F.	ABOVE FINISHED FLOOR	HORIZ.	HORIZONTAL
ALT.	ALTERNATE	I.F.W.	INSIDE FACE OF WALL
A.B.	ANCHOR BOLT	I.E.	INVERT ELEVATION
BM.	BEAM	K (KIP)	1,000 POUNDS
B.F.F.	BELOW FINISHED FLOOR	L.L.	LIVE LOADS
B.O.B.	BOTTOM OF BEAM	LBS (#)	POUNDS
B.O.D.	BOTTOM OF DECK	L.L.H.	LONG LEG HORIZONTAL
B.O.F.	BOTTOM OF FOOTING	L.L.V.	LONG LEG VERTICAL
B.O.P.	BOTTOM OF PLATE	MFR(S)	MANUFACTURER(S)
B.O.S.	BOTTOM OF STEEL	MAS. C.J.	MASONRY CONTROL JOINT
BRG.	BEARING	MECH.L.	MECHANICAL
C.I.P.	CAST-IN-PLACE	N/A	NOT APPLICABLE
C.L.	CENTERLINE	N.T.S.	NOT TO SCALE
C.L.B.	CENTERLINE OF BEAM	O.C.	ON CENTERS
C.L.C.	CENTERLINE OF COLUMN	O.F.W.	OUTSIDE FACE OF WALL
C.L.F.	CENTERLINE OF FOOTING	OPP.	OPPOSITE
C.L.W.	CENTERLINE OF WALL	P.C.	PRE-CAST CONCRETE
CLR.	CLEAR	P.L.F.	POUNDS PER LINEAR FOOT
CONC.	CONCRETE	PREFAB.	PRE-FABRICATED
CONC. C.J.	CONCRETE CONTROL JOINT	P.S.F.	POUNDS PER SQUARE FOOT
CONC. S.J.	CONCRETE SAWCUT JOINT	P.S.I.	POUNDS PER SQUARE INCH
C.M.U.	CONCRETE MASONRY UNIT	REINF.	REINFORCING
CONN.	CONNECTION	S.L.H.	SHORT LEG HORIZONTAL
CONT.	CONTINUOUS	S.L.V.	SHORT LEG VERTICAL
D.L.	DEAD LOAD	SIM.	SIMILAR
DIAM.	DIAMETER	SQ.	SQUARE
DN.	DOWN	STD.	STANDARD
DWG(S)	DRAWING(S)	T.L.	TOTAL LOAD
E.O.S.	EDGE OF SLAB	T.O.B.	TOP OF BEAM
EL.	ELEVATION	T.O.D.	TOP OF DECK
EQ.	EQUAL	T.O.F.	TOP OF FOOTING
EQUIP.	EQUIPMENT	T.O.G.	TOP OF GRATING
EXP.	EXPANSION BOLT	T.O.L.	TOP OF LEDGER
EXP. JT. (E.J.)	EXPANSION JOINT	T.O.M.	TOP OF MASONRY
E.W.	EACH WAY	T.O.P.	TOP OF PLATE
F.F.	FINISHED FLOOR	T.O.S.	TOP OF STEEL
F.O.M.	FACE OF MEMBER	T.O.W.	TOP OF WALL
F.O.S.	FACE OF STEEL	TYP.	TYPICAL
F.O.W.	FACE OF WALL	U.N.O.	UNLESS NOTED OTHERWISE
GA.	GAUGE	VERT.	VERTICAL
GALV.	GALVANIZED	WSTP.	WATERSTOP
G.S.N.	GENERAL STRUCTURAL NOTES	W.W.R.	WELDED WIRE REINFORCEMENT
GLB (GLULAM)	GLUE-LAMINATED BEAM		

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Project No.:	15169	Project Mgr.:	BKL
Proj. Engineer:	BRL	Proj. Drafter:	SLM

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SCALES
0 1" = 1" = 25mm
IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.

DESIGNED

B. Labrecque

DRAWN

S. McCarthy

CHECKED

B. Leslie

WASHINGTON STATE DEPARTMENT OF ECOLOGY

CORNET BAY MARINA REMEDIATION

Kennedy/Jenks Consultants
FEDERAL WAY, WA

GENERAL STRUCTURAL NOTES AND ABBREVIATIONS

FILE NAME

1396010_S01

JOB NO.

1396010.00

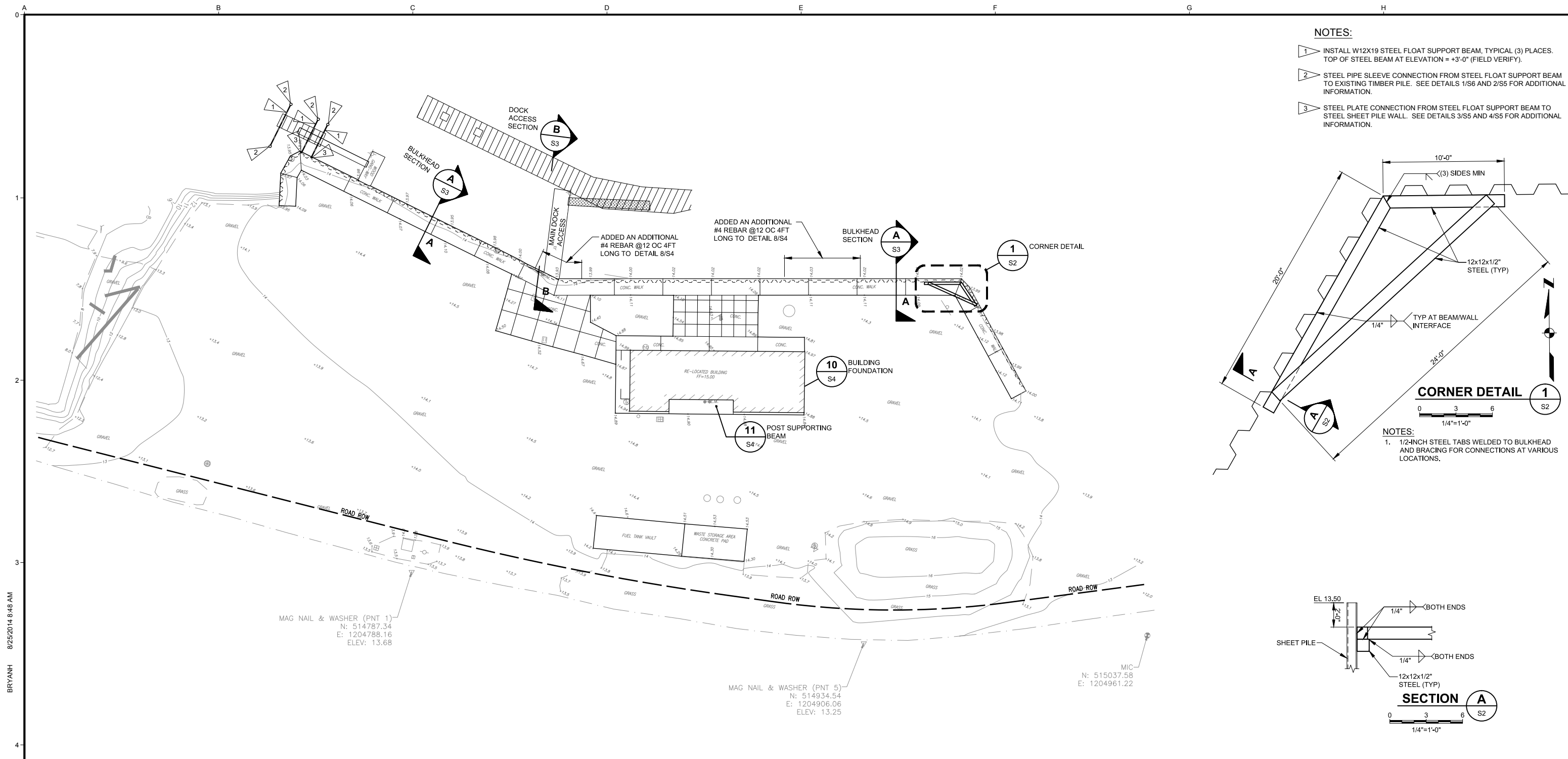
DATE

AUGUST 2014

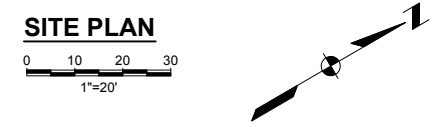
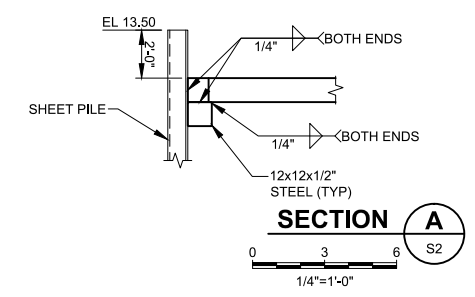
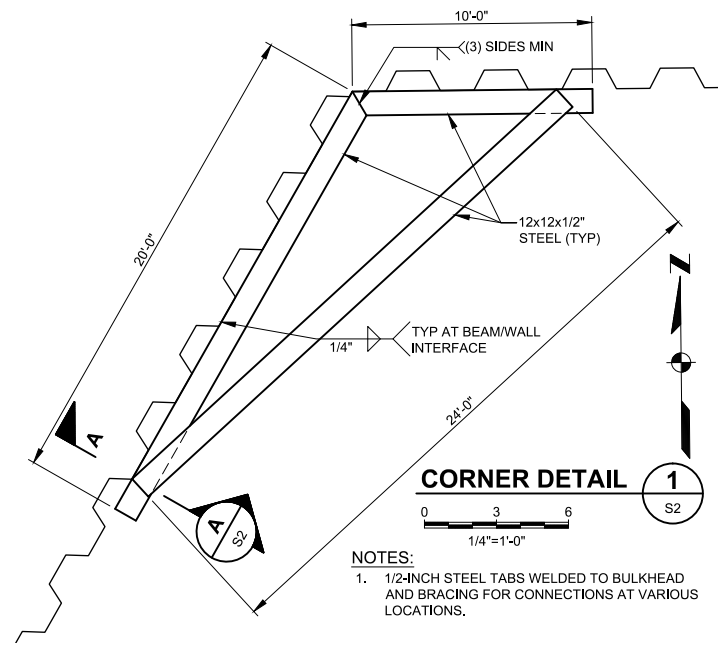
SHEET

OF

S1



- NOTES:**
- 1 INSTALL W12X19 STEEL FLOAT SUPPORT BEAM, TYPICAL (3) PLACES. TOP OF STEEL BEAM AT ELEVATION = +3'-0" (FIELD VERIFY).
 - 2 STEEL PIPE SLEEVE CONNECTION FROM STEEL FLOAT SUPPORT BEAM TO EXISTING TIMBER PILE. SEE DETAILS 1/S6 AND 2/S5 FOR ADDITIONAL INFORMATION.
 - 3 STEEL PLATE CONNECTION FROM STEEL FLOAT SUPPORT BEAM TO STEEL SHEET PILE WALL. SEE DETAILS 3/S5 AND 4/S5 FOR ADDITIONAL INFORMATION.



MAG NAIL & WASHER (PNT 1)
N: 514787.34
E: 1204788.16
ELEV: 13.68

MAG NAIL & WASHER (PNT 5)
N: 514934.54
E: 1204906.06
ELEV: 13.25

MIC
N: 515037.58
E: 1204961.22

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Project No.: 15169 Project Mgr.: BKL
Proj. Engineer: BRL Proj. Drafter: SLM

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NO.	REVISION	DATE	BY

SCALES
0 1" = 20'
0 25mm
IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.

DESIGNED
B. Labrecque
DRAWN
S. McCarthy
CHECKED
B. Leslie

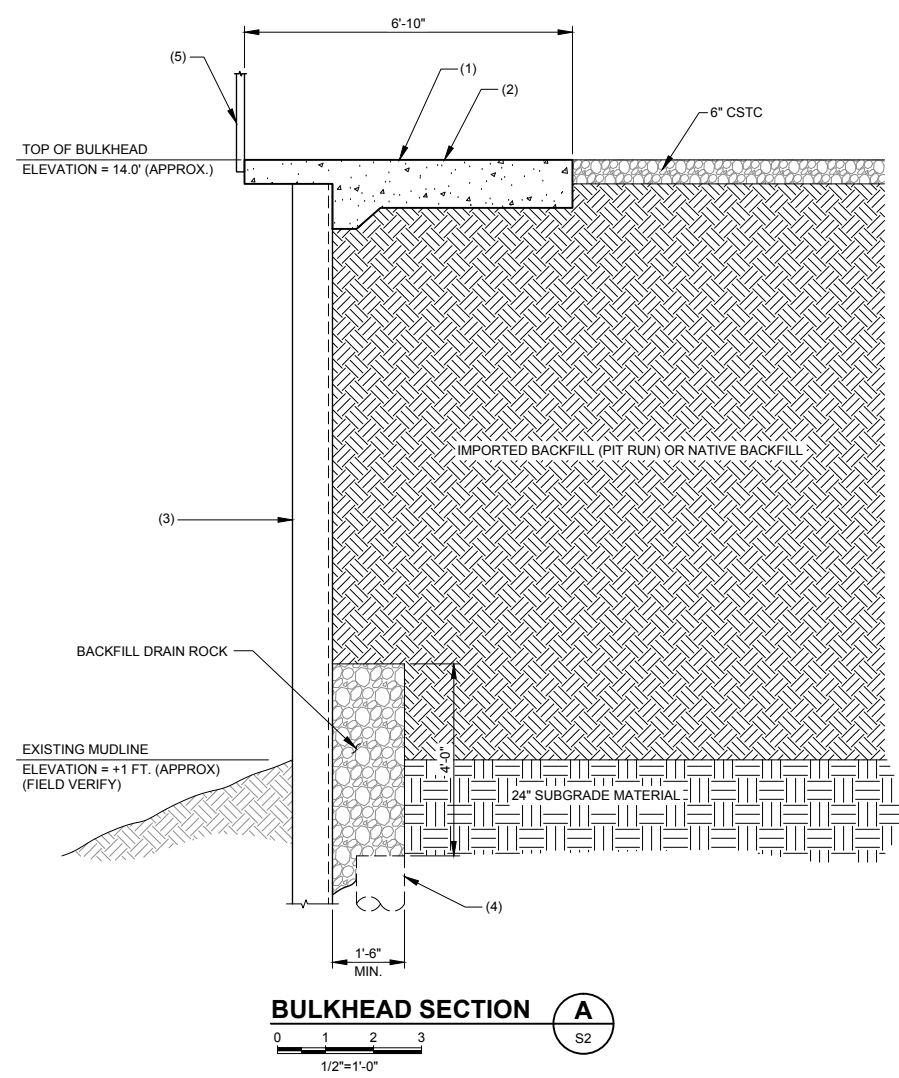
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CORNET BAY MARINA REMEDIATION
Kennedy/Jenks Consultants
FEDERAL WAY, WA

BULKHEAD PLAN

FILE NAME
1396010_S02
JOB NO.
1396010.00
DATE
AUGUST 2014
SHEET OF
S2

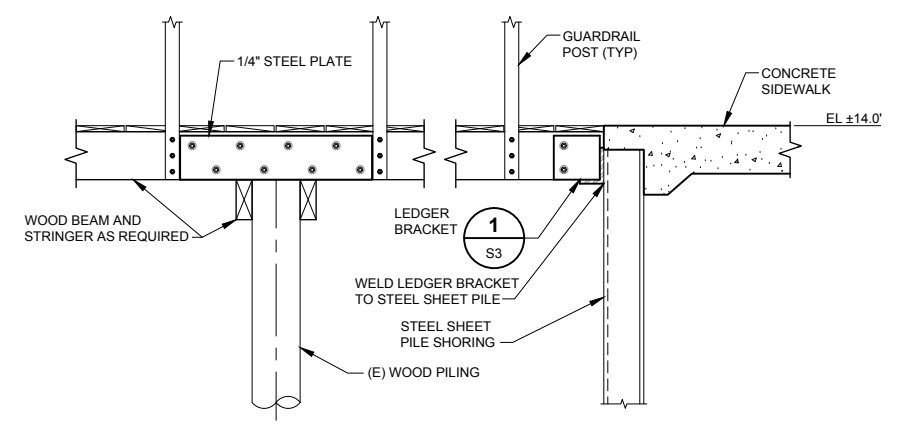
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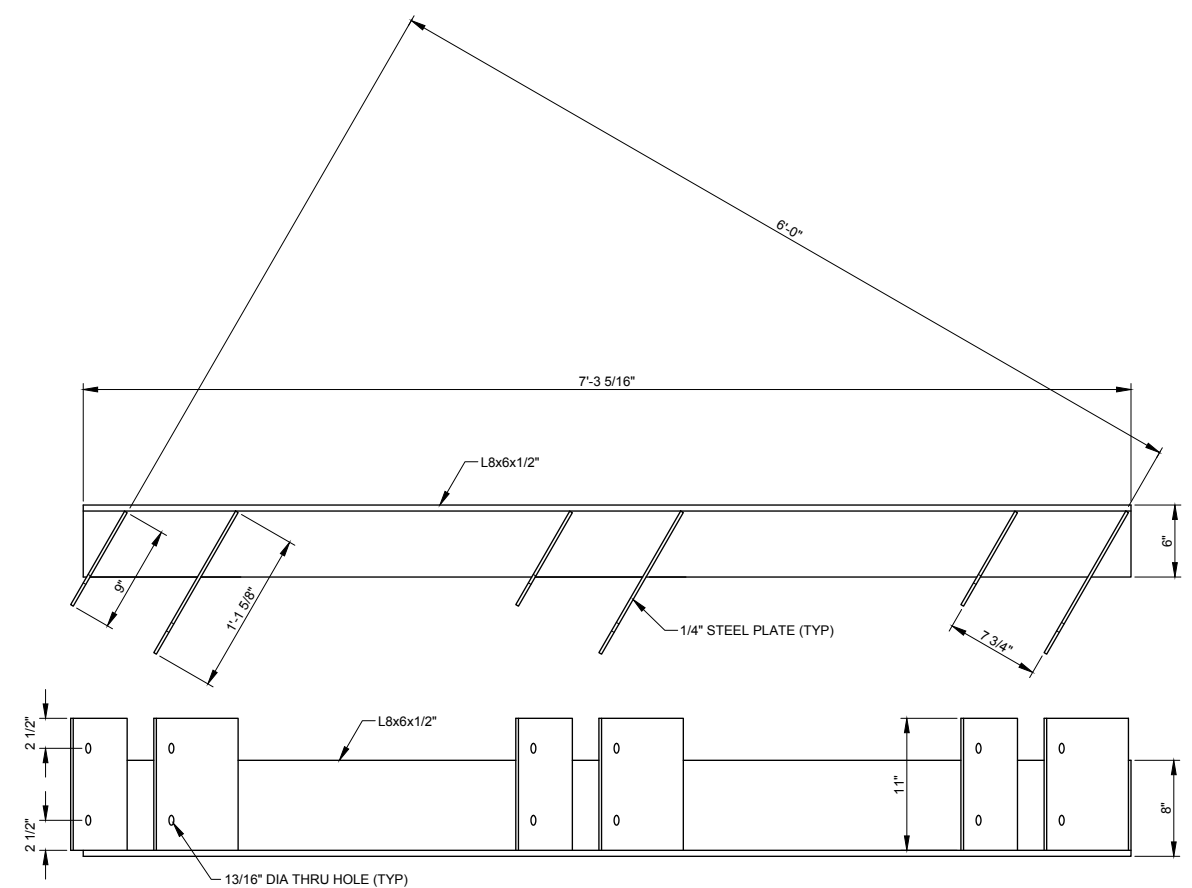


BULKHEAD SECTION A
S2
1/2" = 1'-0"

- NOTES:**
1. CONCRETE SIDEWALK SLAB PER PLAN. SEE DETAIL 8/S4.
 2. FINISH GRADE AS OCCURS - VERIFY ELEVATION OF FINISH GRADE WITH CIVIL DRAWINGS.
 3. STEEL SHEET PILE BULKHEAD WALL.
 4. EXISTING PORTION OF CREOSOTE TREATED TIMBER PILE BULKHEAD WALL TO REMAIN.
 5. GUARDRAIL SEE DETAIL 9/S4.



DOCK ACCESS SECTION B
S2
1/2" = 1'-0"



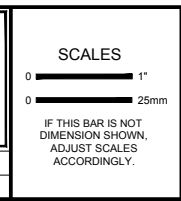
LEDGER BRACKET 1
S3
1/2" = 1'-0"

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Project No.: 15169	Project Mgr.: BKL
Proj. Engineer: BRL	Proj. Drafter: SLM

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DRAWN
S. McCarthy

CHECKED
B. Leslie

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Kennedy/Jenks Consultants
FEDERAL WAY, WA

BULKHEAD SECTION VIEWS

FILE NAME
1396010_S03

JOB NO.
1396010.00

DATE
AUGUST 2014

SHEET OF
S3

CLASS "B" LAP SPlice LENGTH (IN INCHES)								
f _c =2,500 PSI		f _c =3,000 PSI		f _c =4,000 PSI		f _c =5,000 PSI		
REG	TOP	REG	TOP	REG	TOP	REG	TOP	
#3	24	32	22	28	20	26	18	22
#4	32	42	30	38	26	34	24	30
#5	40	52	36	48	32	42	28	36
#6	48	62	44	56	38	50	34	44
#7	70	90	64	82	54	72	50	64
#8	78	102	72	94	62	82	56	72
#9	88	116	82	106	70	92	64	82
#10	100	130	92	118	80	102	72	92
#11	110	144	102	132	88	114	78	102

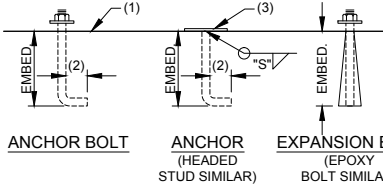
- NOTES:**
- TOP BARS ARE ANY HORIZONTAL BARS PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.
 - UNLESS NOTED OTHERWISE, LAP SPLICES IN CONCRETE BEAMS, SLABS, WALLS, AND FOOTINGS SHALL BE CLASS "B" TENSION LAP SPLICES.
 - CONTACT STRUCTURAL ENGINEER IF CENTER-TO-CENTER SPACING OF REINFORCEMENT IS LESS THAN (3) BAR DIAMETERS (<3db).
 - LAP SPLICES BASED ON: f_y = 60 KSI.

LAP SPlice SCHEDULE FOR REINFORCING IN CONCRETE

SCALE: N.T.S.

1
S4

BOLT DIAMETER	VERT. BOLT EMBEDMENT LENGTH	HORIZ. BOLT EMBEDMENT LENGTH	HEADED STUD FILLET WELD SIZE, "S"
1/2"	7"	4"	1/4"
5/8"	7"	4"	5/16"
3/4"	7"	5"	5/16"
7/8"	8"	6"	5/16"
1"	9"	7"	3/8"
1 1/8"	10"	8"	---
1 1/4"	11"	9"	---



TYPICAL ANCHOR, ANCHOR BOLT, AND EXPANSION BOLT SCHEDULE

SCALE: N.T.S.

2
S4

- NOTES:**
- FACE OF WALL, TOP OF WALL, COLUMN, ETC.
 - 2" MIN. STANDARD HOOK OR BOLT HEAD, TYPICAL
 - PLATE, ANGLE, CHANNEL, ETC.
- NOTES:**
- PROVIDE ANCHORS, ANCHOR BOLTS AND EXPANSION BOLTS PER THIS SCHEDULE UNLESS NOTED ON THE PLANS OR DETAILS.
 - EXPANSION BOLTS SHALL HAVE I.C.C. REPORT FOR SAME INSTALLATION.
 - USE 3/16" FILLET AT "ANCHORS."
 - THICKNESS OF DRYPACK DOES NOT APPLY TOWARD EMBEDMENT.

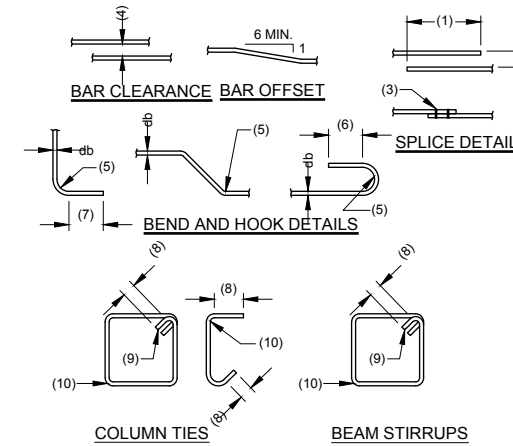
TYPICAL CORNER REINFORCING IN CONCRETE FOOTING, STEM OR WALL

SCALE: N.T.S.

3
S4

- NOTES:**
- 12" THICK CONCRETE SLAB ON GRADE WITH #4 BARS AT 12" O.C., EACH WAY TOP AND BOTTOM. CONCRETE SHALL BE REINFORCED PER GSN.
 - HSS 2x2x3/16 STAINLESS STEEL GUARDRAIL POSTS-SPACE POSTS AT 6" O.C. (MAXIMUM) - SEE GUARDRAIL ELEVATION DETAIL 9/SS FOR ADDITIONAL INFORMATION.
 - L4x4x1/4 STAINLESS STEEL EMBED ANGLE WITH 1/2" DIAMETER HEADED STUDS AT 24" O.C.
 - DOWELS TO MATCH AND LAP SLAB REINFORCING - PROVIDE 3" COVER, MINIMUM
 - STEEL SHEET PILE BULKHEAD WALL PER PLAN
 - CONTRACTOR SHALL PROVIDE CONCRETE FORM CLOSURE AS REQUIRED

- NOTES:**
- CORNER BARS SAME SIZE AND SPACING AS HORIZ. REINFORCING LAP PER G.S.N. (24" MINIMUM)
 - ALTERNATE BENDS
 - CONCRETE FOOTING, STEM OR WALL
 - REINFORCING PER PLANS AND/OR DETAILS

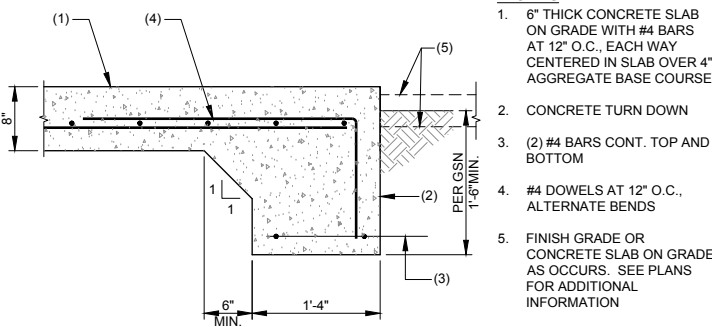


- NOTES:**
- LAP PER TYP. SCHEDULE
 - MAXIMUM 1/5 LAP BUT NOT MORE THAN 6"
 - WIRE TIES
 - 1db (1" MINIMUM)
 - INSIDE BEND RADIUS: #3 TO #8 BARS = 3db #9 TO #11 BARS = 4db #14, #18 BARS = 5db
 - 4db (2 1/2" MINIMUM)
 - 12db
 - 6db (4" MINIMUM)
 - 135° BEND
 - BEND AROUND: 1 1/2" PIN FOR #3 BARS 2" PIN FOR #4 BARS 2 1/2" PIN FOR #5 BARS

TYPICAL CONCRETE REINFORCING BARS

SCALE: N.T.S.

4
S4

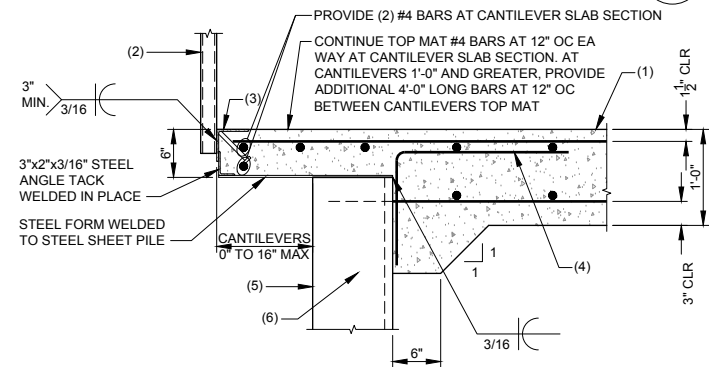


- NOTES:**
- 6" THICK CONCRETE SLAB ON GRADE WITH #4 BARS AT 12" O.C., EACH WAY CENTERED IN SLAB OVER 4" AGGREGATE BASE COURSE
 - CONCRETE TURN DOWN
 - (2) #4 BARS CONT. TOP AND BOTTOM
 - #4 DOWELS AT 12" O.C., ALTERNATE BENDS
 - FINISH GRADE OR CONCRETE SLAB ON GRADE AS OCCURS. SEE PLANS FOR ADDITIONAL INFORMATION

EXTERIOR WALL TURNDOWN

SCALE: N.T.S.

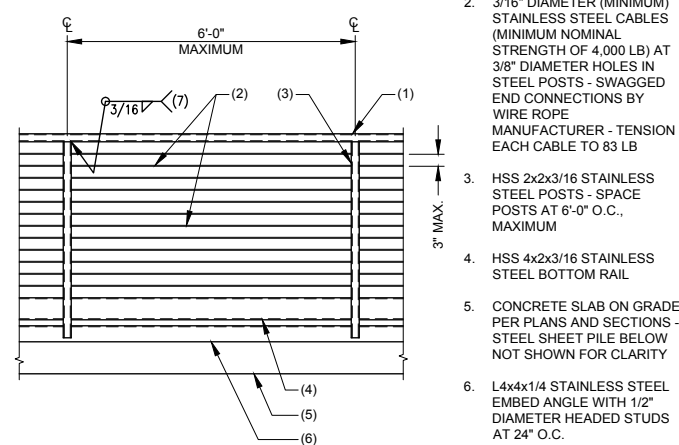
7
S4



CONCRETE SIDEWALK SLAB AT SHEET PILE WALL

SCALE: N.T.S.

8
S3

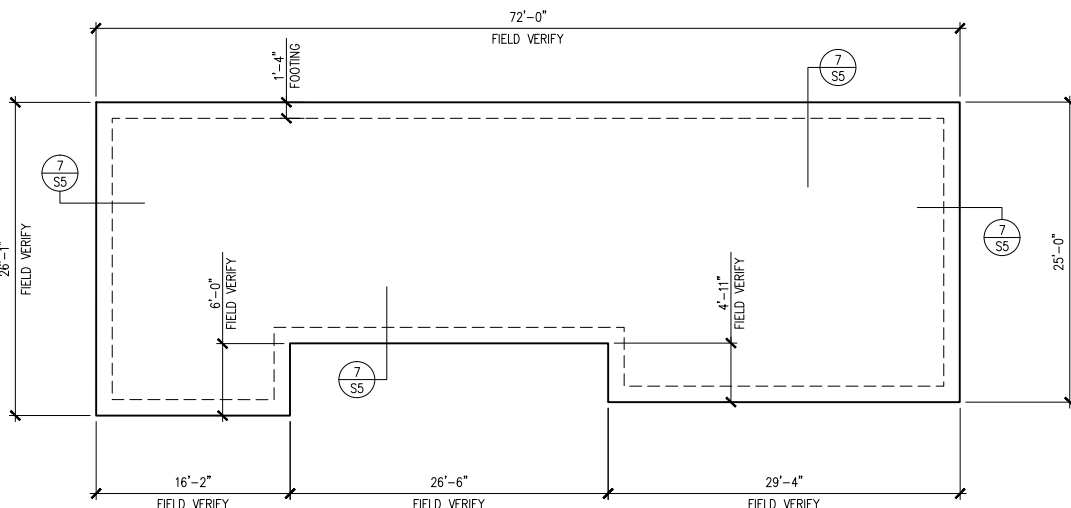


- NOTES:**
- HSS 2x2x3/16 STAINLESS STEEL TOP RAIL
 - 3/16" DIAMETER (MINIMUM) STAINLESS STEEL CABLES (MINIMUM NOMINAL STRENGTH OF 4,000 LB) AT 3/8" DIAMETER HOLES IN STEEL POSTS - SWAGGED END CONNECTIONS BY WIRE ROPE MANUFACTURER - TENSION EACH CABLE TO 83 LB
 - HSS 2x2x3/16 STAINLESS STEEL POSTS - SPACE POSTS AT 6'-0" O.C., MAXIMUM
 - HSS 4x2x3/16 STAINLESS STEEL BOTTOM RAIL
 - CONCRETE SLAB ON GRADE PER PLANS AND SECTIONS - STEEL SHEET PILE BELOW NOT SHOWN FOR CLARITY
 - L4x4x1/4 STAINLESS STEEL EMBED ANGLE WITH 1/2" DIAMETER HEADED STUDS AT 24" O.C.
 - TYPICAL - GRIND WELDS SMOOTH

FIXED STEEL GUARDRAIL

SCALE: N.T.S.

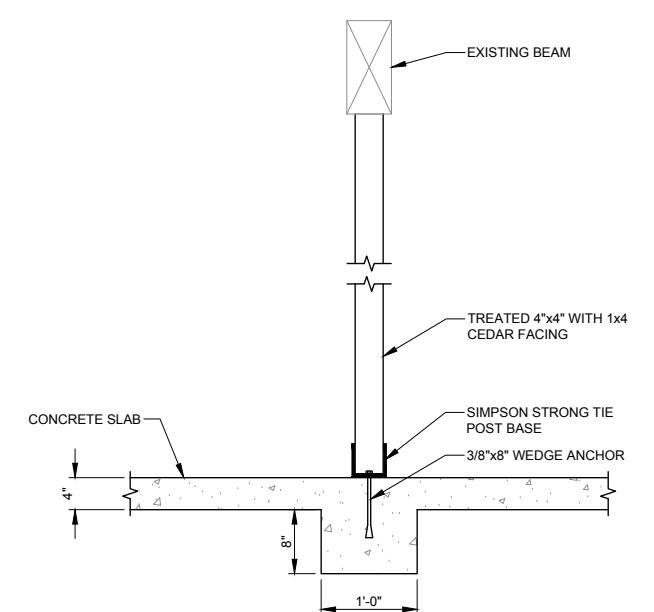
9
S3



ENLARGED BUILDING FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

10
S2



POST SUPPORTING BEAM

SCALE: N.T.S.

11
S2

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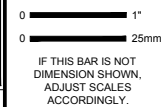
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NO.	REVISION	DATE	BY
-	RECORD DRAWING	AUG 2014	KJ

SCALES



IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.

DESIGNED

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DRAWN

S. McCarthy

CHECKED

B. Leslie

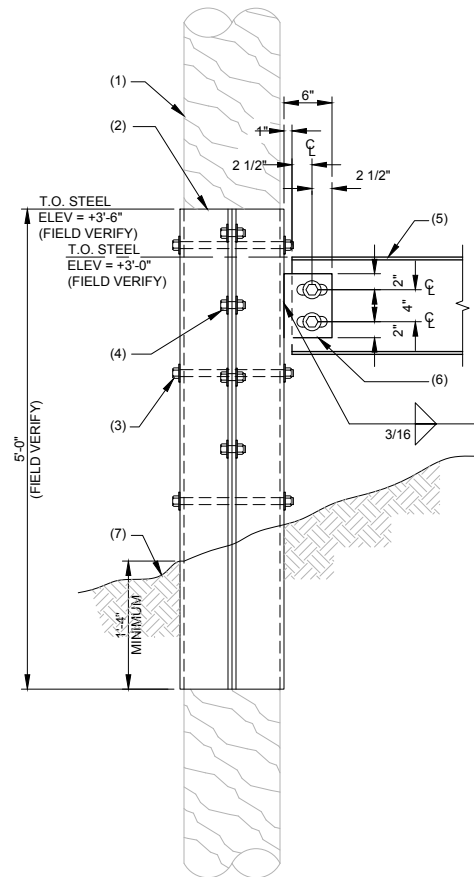
WASHINGTON STATE DEPARTMENT OF ECOLOGY

CORNET BAY MARINA REMEDIATION

Kennedy/Jenks Consultants
FEDERAL WAY, WA

BULKHEAD AND FOUNDATION DETAILS

FILE NAME
1396010_S04
JOB NO.
1396010.00
DATE
AUGUST 2014
SHEET OF
S4

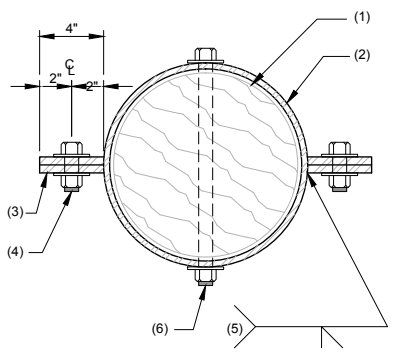


STEEL BEAM AT EXISTING PILE

SCALE: N.T.S.

1
S5

- NOTES:**
1. EXISTING 12" DIAMETER (NOMINAL) TREATED TIMBER PILE TO REMAIN - FIELD VERIFY SIZE OF PILE.
 2. 12" DIAMETER (NOMINAL) STEEL PIPE SLEEVE - 5'-0" LONG (MINIMUM) - FIELD VERIFY LENGTH PROVIDED IS ADEQUATE TO ACHIEVE 1'-4" EMBEDMENT - SEE DETAIL 2/S5 FOR ADDITIONAL INFORMATION.
 3. 3/4" DIAMETER THREADED RODS THRU EXISTING TIMBER PILE AT 16" O.C.
 4. 7/8" DIAMETER ASTM A325 THRU-BOLTS AT EACH FLANGE AT 9" O.C.
 5. W12x19 WIDE FLANGE STEEL FLOAT SUPPORT BEAM PER PLAN.
 6. 6"x8"x1/2" THICK STEEL SHEAR PLATE WITH (2) 7/8" DIAMETER ASTM A325 THRU-BOLTS IN LONG SLOTTED HOLES (HORIZONTAL SLOTS).
 7. EXISTING MUDLINE AS OCCURS.



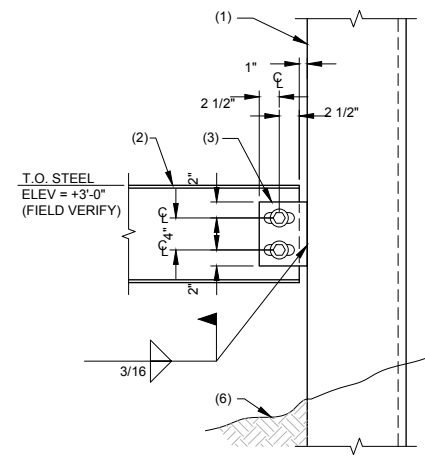
STEEL SLEEVE AT EXISTING PILE

SCALE: N.T.S.

2
S5

- NOTES:**
1. EXISTING 12" DIAMETER (NOMINAL) TREATED TIMBER PILE TO REMAIN - FIELD VERIFY SIZE OF PILE.
 2. 12" DIAMETER (NOMINAL) STANDARD WEIGHT STEEL PIPE SLEEVE - 5'-0" LONG (MINIMUM) - CUT IN HALF LENGTHWISE TO CREATE TWO (2) SLEEVE SECTIONS.
 3. 4"x1/2"x5'-0" LONG STEEL FLANGES, WELD TO EDGES OF STEEL SLEEVE SECTIONS.
 4. 7/8" DIAMETER ASTM A325 THRU BOLTS AT EACH FLANGE, SPACED AT 9" O.C.
 5. STEEL FLANGE TO SLEEVE, TYPICAL.
 6. 3/4" DIAMETER THREADED RODS THRU EXISTING TIMBER PILE AT 16" O.C.

NOTE:
1. STEEL BEAM AND SHEAR TAB NOT SHOWN FOR CLARITY

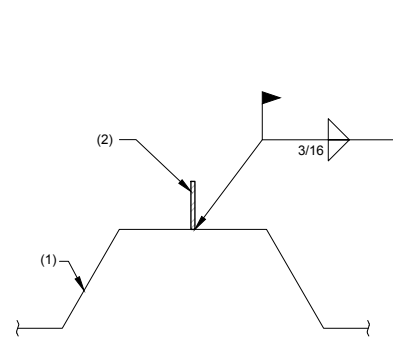


STEEL BEAM AT STEEL SHEET PILE

SCALE: N.T.S.

3
S5

- NOTES:**
1. STEEL SHEET PILE SHORING WALL PER PLAN.
 2. W12x19 WIDE FLANGE STEEL FLOAT SUPPORT BEAM PER PLAN.
 3. 6"x8"x1/2" THICK STEEL SHEAR PLATE WITH (2) 7/8" DIAMETER ASTM A325 THRU-BOLTS IN LONG SLOTTED HOLES (HORIZONTAL SLOTS).
 4. NOT USED
 5. NOT USED
 6. EXISTING MUDLINE AS OCCURS.

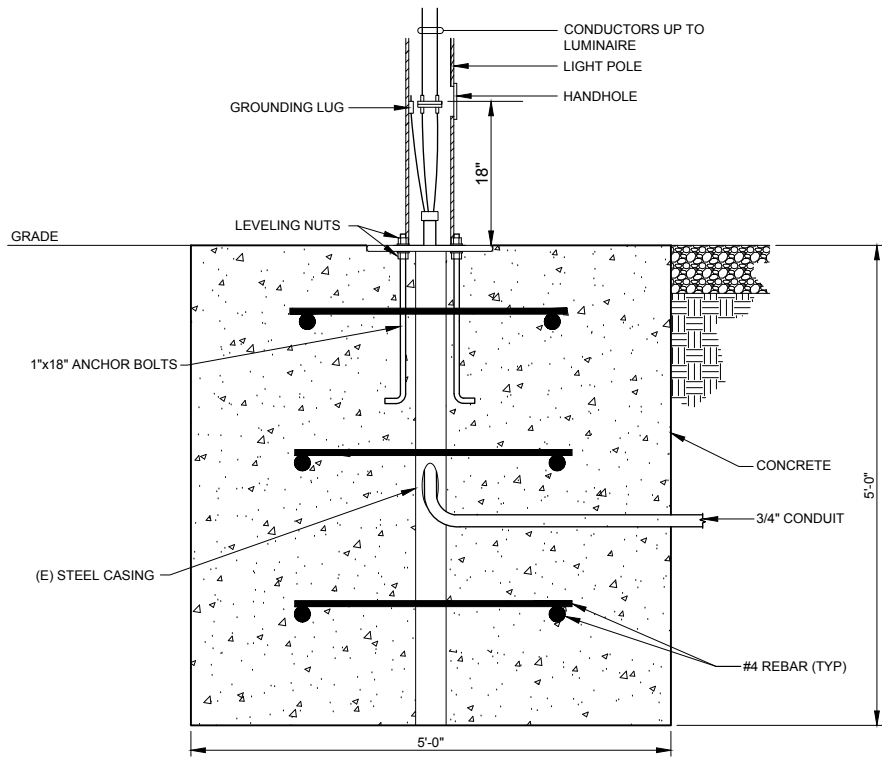


STEEL PLATE AT STEEL SHEET PILE

SCALE: N.T.S.

4
S5

- NOTES:**
1. STEEL SHEET PILE SHORING WALL PER PLAN.
 2. 6"x8"x1/2" THICK STEEL SHEAR PLATE WITH (2) 7/8" DIAMETER ASTM A325 THRU-BOLTS IN LONG SLOTTED HOLES (HORIZONTAL SLOTS) TO STEEL BEAM (NOT SHOWN FOR CLARITY).



SIGN POLE BASE

SCALE: N.T.S.

5
C1

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-	RECORD DRAWING	AUG 2014	KJ
NO.	REVISION	DATE	BY

SCALES
0 1" = 1'
0 25mm = 1"
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DESIGNED	B. Labrecque
DRAWN	S. McCarthy
CHECKED	B. Leslie

WASHINGTON STATE DEPARTMENT OF ECOLOGY
CORNET BAY MARINA REMEDIATION
Kennedy/Jenks Consultants
FEDERAL WAY, WA

FLOAT SUPPORT FRAMING AND SIGN POLE BASE DETAILS

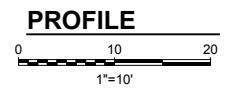
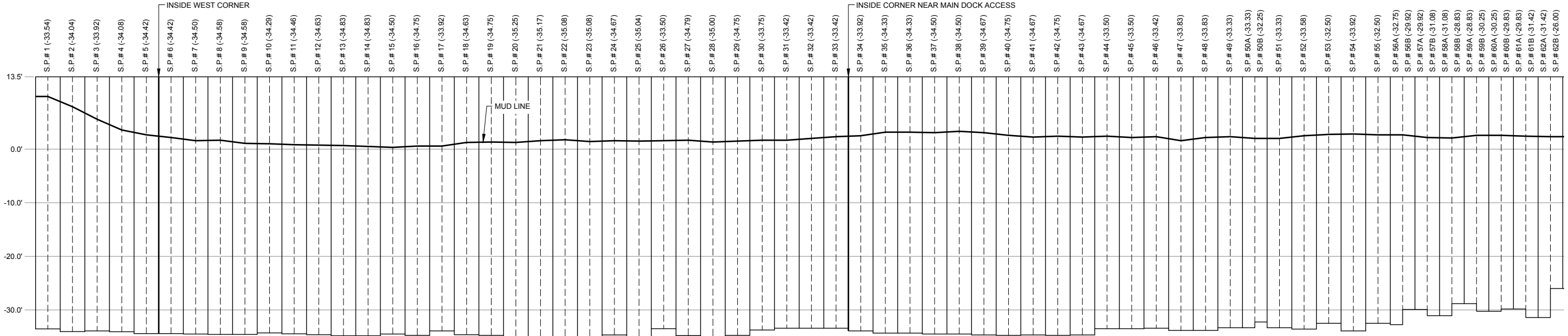
FILE NAME	1396010_S05
JOB NO.	1396010.00
DATE	AUGUST 2014
SHEET OF	S5

SITTS & HILL ENGINEERS, INC.
CIVIL • STRUCTURAL • SURVEYING
4815 CENTER STREET | TACOMA, WA 98409
PHONE: (253) 474-8449 | FAX: (253) 474-0153
http://www.sitts-hill-engineers.com/

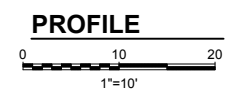
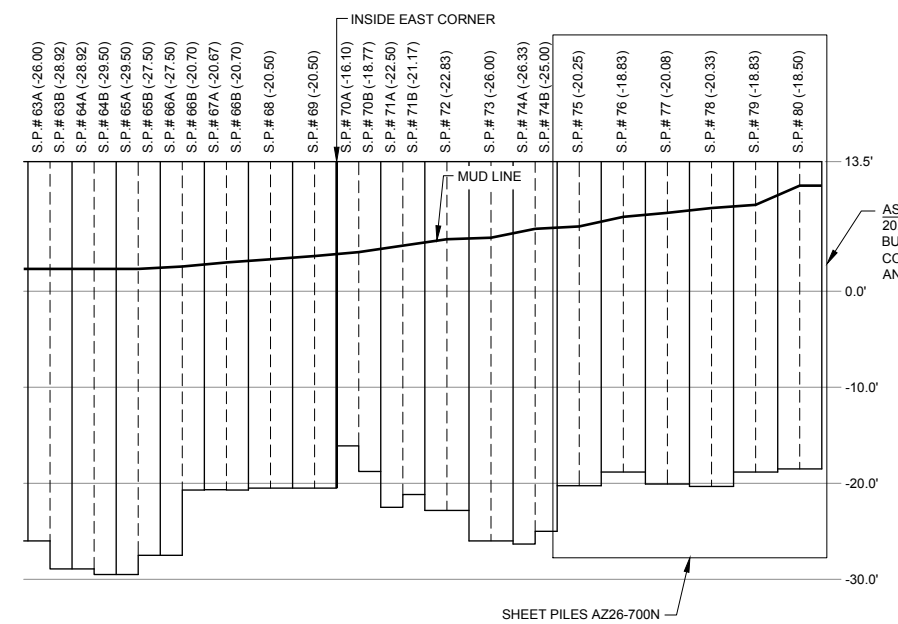
Project No.:	15169	Project Mgr.:	BKL
Proj. Engineer:	BRL	Proj. Drafter:	SLM

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- NOTES:**
- SHEET PILES NO. 1 THROUGH 74 ARE AZ38-700N. SHEET PILES NO. 75 THROUGH 80 ARE AZ26-700N.
 - SHEET PILES NO. 1 THROUGH 52 AND NO. 75 THROUGH 80 PLACED WITH APE MODEL 150 VIBRATORY DRIVER.
 - SHEET PILES NO. 53 THROUGH 74 PLACED WITH DELMAG D19-42 HAMMER DRIVER. DRIVEN ON SETTING 1, APPROXIMATELY 19,000 FT-LB ENERGY.



SHEET PILE NO.	Finish Hammer Driver Blows Per Inch (BPI)
55	
56A	8.00
56B	
57A	8.00
57B	
58A	8.00
58B	
59A	10.00
59B	
60A	8.00
60B	
61A	10.00
61B	
62A	8.00
62B	
63A	9.00
63B	
64A	10.00
64B	
65A	10.00
65B	
66A	10.00
66B	
67A	8.00
67B	
68A	8.00
68B	
69A	10.00
69B	
70A	10.00
70B	
71A	10.00
71B	
72A	8.00
72B	
73A	8.00
73B	
74A	8.00



AS-BUILT NOTE:
20.17 FEET ADDITIONAL BULKHEAD WALL, CONCRETE SIDEWALK, AND GUARDRAIL

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-	RECORD DRAWING	AUG 2014	KJ
NO.	REVISION	DATE	BY

SCALES

0 1" 25mm

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DESIGNED
RCG

DRAWN
BBH

CHECKED
RCG

WASHINGTON STATE DEPARTMENT OF ECOLOGY

CORNET BAY MARINA REMEDIATION

Kennedy/Jenks Consultants
FEDERAL WAY, WA

SHEET PILE PROFILE

FILE NAME
1396010_S06

JOB NO.
1396010.00

DATE
AUGUST 2014

SHEET OF
S6

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ABBREVIATIONS			
a	CIRCUIT BREAKER AUX. CONTACT, CLOSED WHEN BREAKER IS CLOSED	FLUOR	FLUORESCENT
A	AMMETER, AMPERES	FREQ	FREQUENCY
AC	ALTERNATING CURRENT	FT	FEET, FOOT
AD	ANALOG TO DIGITAL	FU	FUSE
ADJ	ADJUSTABLE	(F)	FUTURE
AF	AMPERE FRAME	FVNR	FULL VOLTAGE NON REVERSING
AFD	ADJUSTABLE FREQUENCY DRIVE	FVR	FULL VOLTAGE REVERSING
AFF	ABOVE FINISHED FLOOR	FWD	FORWARD
AIC	AMPERES INTERRUPTING CAPACITY	GA	GAUGE
AL	ALUMINUM	GALV	GALVANIZED
ALT	ALTERNATOR	GEN	GENERATOR
AM	AUTOMANUAL CONTROLLER	GF	GROUND FAULT INTERRUPTER
ANN	ANNUNCIATOR	G. GND	GROUND
APPROX	APPROXIMATE	GRS	GALVANIZED RIGID STEEL
AS	AMMETER SWITCH	H ₂ O ₂	HYDROGEN PEROXIDE
AT	AMMETER TRIP	HH	HANDHOLE
ATS	AUTOMATIC TRANSFER SWITCH	HMI	HUMAN MACHINE INTERFACE
AUTO	AUTOMATIC	HOA	HAND-OFF-AUTOMATIC
AUX	AUXILIARY	HOR	HAND-OFF-REMOTE
AWG	AMERICAN WIRE GAGE	HORIZ	HORIZONTAL
b	CIRCUIT BREAKER AUX. CONTACT, CLOSED WHEN BREAKER IS OPEN	HP	HORSEPOWER
BCG	BARE COPPER GROUND	HPS	HIGH PRESSURE SODIUM
BLDG	BUILDING	HTR	HEATER
C	CONDUIT	HV	HIGH VOLTAGE
CAB	CABINET	HZ	HERTZ (CYCLES PER SECOND)
CAP	CAPACITOR	IND LT	INDICATING LIGHT
CB	CIRCUIT BREAKER	INCAND	INCANDESCENT
CC	CENTRAL CABLE, CLOSING COIL	INSTR	INSTRUMENT
CKT	CIRCUIT	I/O	INPUT/OUTPUT
CO	CONDUIT ONLY	JB	JUNCTION BOX
COMM	COMMUNICATION	KA	KILOAMPERES
COND	CONDUCTOR	KCMIL	THOUSANDS OF CIRCULAR MILS
CONT	CONTINUED, CONTINUATION	KV	KILOVOLTS
CPT	CONTROL POWER TRANSFORMER	KVA	KILOVOLT AMPERES
CP	CONTROL PANEL	KVAR	KILOVOLT AMPERES REACTIVE
CR	CONTROL RELAY	KWH	KILOWATT HOURS
CS	CURRENT SWITCH	KW	KILOWATTS
CT	CURRENT TRANSFORMER	LP	LIGHTING PANEL
CWP	COLD WATER PIPE	LTG	LIGHTING
DC	DIRECT CURRENT	LTS	LIGHTS
DIA	DIAMETER	(M)	MODIFIED
DIAG	DIAGRAM	mA	MILLIAMPERES
DISC	DISCONNECT	MAX	MAXIMUM
DISTR	DISTRIBUTION	MCC	MOTOR CONTROL CENTER
DN	DOWN	MCP	MOTOR CIRCUIT PROTECTOR
DP	DISTRIBUTION PANEL	MFR	MANUFACTURER
DPDT	DOUBLE POLE DOUBLE THROW	MIN	MINIMUM
DPST	DOUBLE POLE SINGLE THROW	MISC	MISCELLANEOUS
DWG	DRAWING	MOV	MOTOR OPERATED VALVE
(E)	EXISTING	MS	MOTOR STARTER
EA	EACH	MTD	MOUNTED
EF	EXHAUST FAN	MTG	MOUNTING
EH	ELECTRICAL HANDHOLE	MTS	MANUAL TRANSFER SWITCH
EL, ELEV	ELEVATION	(N)	NEW
ELEC	ELECTRIC, ELECTRICAL	NC	NORMALLY CLOSED
ELEM	ELEMENTARY	NEC	NATIONAL ELECTRICAL CODE
EMERG	EMERGENCY	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
EM	ELECTRICAL MANHOLE	NEUT	NEUTRAL
ENCL	ENCLOSURE	NIC	NOT IN CONTRACT
EQ	EQUAL	NO	NORMALLY OPEN, NUMBER
EQPT	EQUIPMENT	NTS	NOT TO SCALE
ETM	ELAPSED TIME METER	OH	OVERHEAD
FDR	FEEDER	OT	OVER TEMPERATURE
FLEX	FLEXIBLE		

PLAN SYMBOLS	
	OVERHEAD POWER LINE
	UNDERGROUND CONDUIT, CONCRETE ENCASEMENT SEE NOTE P4
	UNDERGROUND CONDUIT, DIRECT BURIED SEE NOTE P4
	CONDUIT CONCEALED IN CONC SLAB OR UNDER SLAB
	CONDUIT CONCEALED IN WALL & CEILING
	CONDUIT EXPOSED
	CALLOUT INDICATING CONDUIT SIZE, NUMBER OF WIRES AND WIRE SIZE
	CALLOUT INDICATING CONDUIT AND WIRE PER SCHEDULE
	CONDUIT RUN, HATCH MARKS INDICATE NUMBER OF #12 WIRES, NO HATCH MARKS IS 2#12, UNLESS OTHERWISE NOTED
	CONDUIT RUN, HATCH MARKS INDICATE NUMBER OF WIRES, CALLOUT INDICATES WIRE SIZE
	MULTIPLE CONDUIT RUN
	HOME RUN TO PANELBOARD OR AS INDICATED
	FLEXIBLE CONDUIT
	CONDUIT RUN, BROKEN AND CONTINUED ON SAME SHEET OR AS NOTED
	CONDUIT WITH SEAL FITTING
	CAP ON CONDUIT STUB
	OPEN CIRCLE DENOTES UPWARD CONDUIT RISER
	SOLID CIRCLE DENOTES DOWNWARD CONDUIT RISER
	TELEVISION CABLE
	POWER CONDUIT (MAIN & FEEDERS)
	TELEPHONE / DATA CONDUIT
	TELEPHONE CONDUIT
	FIRE ALARM CONDUIT
	SECURITY ALARM CONDUIT
	INDICATES REMOVAL
	MOTOR
	DISCONNECT SWITCH
	COMBINATION MOTOR STARTER AND DISCONNECT SWITCH
	MANUAL MOTOR STARTER
	CONTROL STATION
	EQUIPMENT MOUNTING STAND
	GROUND ROD AND BOX
	INSTRUMENT
	MAGNETIC DOOR HOLDER
	INTRUSION REMOTE KEY PAD
	INTRUSION DOOR SWITCH
	SURFACE MOUNTED PANELBOARD
	FLUSH MOUNTED PANELBOARD
	FIRE ALARM CONTROL PANEL
	SECURITY ALARM PANEL
	SINGLE POLE SWITCH * 2 = 2 POLE, 3 = 3 WAY, 4 = 4 WAY, K = KEY OPERATED WP = WEATHERPROOF D = DIMMER P = SWITCH WITH PILOT LIGHT
	SINGLE POLE SWITCH SEE NOTE P3
	DUAL RELAY WALL SWITCH INFRARED OCCUPANCY SENSOR
	FLUORESCENT FIXTURE SEE NOTE P3
	FLUORESCENT FIXTURE WITH NIGHT LIGHTING (UNSWITCHED)
	FLUORESCENT FIXTURE WITH SELF-CONTAINED EMERGENCY BALLAST/BATTERY
	FLUORESCENT OPEN STRIP FIXTURE
	WALL/CEILING MOUNT FIXTURE
	POLE MOUNT FIXTURE
	EMERGENCY LIGHT WITH SELF CONTAINED BATTERY
	LIGHT FIXTURE IDENTIFICATION
	DUPLEX WALL RECEPTACLE, 120V * WP = WEATHERPROOF IG = ISOLATED GROUND GF = GROUND FAULT INTERRUPTER
	DOUBLE DUPLEX WALL RECEPTACLE, 120V
	SINGLE RECEPTACLE, 120V
	SINGLE RECEPTACLE, 208V
	DOCK RECEPTACLE, 30A
	DOCK RECEPTACLE, 50A
	WALL / CEILING MOUNT JUNCTION BOX
	FLOOR RECESS MOUNT JUNCTION BOX
	WALL MOUNT THERMOSTAT
	WALL TELEPHONE OUTLET
	FIRE ALARM PULL STATION
	FIRE ALARM HORN WITH VISUAL
	FIRE ALARM FLASHING LIGHT
	FIRE ALARM HORN
	BELL
	BUZZER
	HEAT DETECTOR
	SMOKE DETECTOR
	ELECTRICAL HANDHOLE / SIGNAL HANDHOLE
	ELECTRICAL MANHOLE
	DOCK SUBSTITUTION
	MAIN DISTRIBUTION PANELBOARD

SINGLE LINE SYMBOLS	
	CIRCUIT BREAKER, 3 POLE EXCEPT WHERE NOTED. RATING IN AMPERES AS NOTED. IF TWO RATINGS APPEAR (EG. 100/625) THEN DEVICE IS MCP; NUMERATOR IS CONTINUOUS CURRENT RATING & DENOMINATOR IS INSTANTANEOUS TRIP SETTING.
	POWER CIRCUIT BREAKER DRAWOUT ABOVE 1500V RATING AS NOTED
	SURGE ARRESTER
	CURRENT TRANSFORMER
	VOLTAGE TRANSFORMER
	POWER OR DISTRIBUTION TRANSFORMER RATING AS NOTED
	GENERATOR
	CONTROL PACKAGE PROVIDED WITH THE DRIVEN EQUIPMENT
	MOTOR. NUMBER INDICATES HORSEPOWER
	ELEMENTARY DIAGRAM NUMBER
	SHUNT TRIP
	FUSE
	FUSE CUTOUT
	GROUND CONNECTION
	SWITCH, 3 POLE EXCEPT WHERE NOTED. RATING IN AMPERES AS NOTED
	AUTOMATIC TRANSFER SWITCH 3 POLE, RATING AS NOTED
	BUS STAB ON MCC OR SWITCHGEAR, CORD & PLUG CONNECTION FOR MOTORS
	AMMETER SWITCH
	VOLTMETER SWITCH
	KIRK KEY INTERLOCK
	RELAY DEVICE FUNCTION, # PER ANSI NUMBER C37.2
	TERMINATOR / POTHEAD
	SPLICE, TERMINATION
	MOTOR STARTER. NUMBER INDICATES NEMA SIZE
	CAPACITOR - KVAR INDICATED
	* AFD OR SS WITH BYPASS CONTACTOR, CONTACTOR NEMA SIZE AS INDICATED
	* REDUCED VOLTAGE SOLID STATE STARTER WITH BYPASS CONTACTOR, CONTACTOR NEMA SIZE AS INDICATED
	CALLOUT INDICATING CONDUIT AND WIRE PER SCHEDULE

ELEMENTARY DIAGRAM SYMBOLS			
	CONTROL POWER TRANSFORMER		CROSS REFERENCE TO ANOTHER DIAGRAM
	HAND-OFF-AUTOMATIC SWITCH X-INDICATES CONTACTS CLOSED		NORMALLY OPEN CONTACT ON THE OTHER DIAGRAM
	HAND-OFF-REMOTE SWITCH X-INDICATES CONTACTS CLOSED		SPARE CONTACTS ON RELAY, IF OMITTED, THEN THE SPECS REQUIREMENTS REGARDING SPARE CONTACTS APPLY.
	CIRCUIT BREAKER, 1-POLE		NORMALLY CLOSED CONTACT ON THIS DIAGRAM
	CIRCUIT BREAKER, 3-POLE		
	MOTOR		ELAPSED TIME METER
	CONTROL DEVICE COIL. PREFIX NUMBER, WHEN USED, DISTINGUISHES BETWEEN DEVICES OF THE SAME TYPE.		
	LIMIT SWITCHES		
	CLOSE ON REACHING LIMIT		
	CLOSE ON LEAVING LIMIT		
	TORQUE SWITCHES		
	OPEN ON HIGH TORQUE		
	CLOSE ON LOW TORQUE		
	TIMED CONTACTS		
	PUSH-TO-TEST INDICATING LIGHT		SWITCH
	SINGLE POLE SWITCH		SWITCH
	EMERGENCY PUSHBUTTON		
	PUSHBUTTON SWITCH		
	NORMALLY OPEN		NORMALLY CLOSED
	SWITCH 1-POLE		SWITCH 3-POLE
	MULTI-POSITION SELECTOR SWITCH		
	BUS STAB ON MCC		
	CONTACT, NORMALLY OPEN / CLOSED		
	THERMAL OVERLOAD		
	GROUND CONNECTION		
	FUSE. RATING IN AMPERES		
	TERMINAL		
	MOTOR SPACE HEATER		
	BUZZER		BELL
	HORN		

GENERAL NOTES:		
G1. THESE DRAWINGS ARE DIAGRAMMATIC ONLY; EXACT LOCATIONS OF ELECTRICAL EQUIPMENT SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER. THE INSTALLATION OF ALL EQUIPMENT SHOWN ON THESE DRAWINGS OR DESCRIBED IN THE SPECIFICATIONS SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE LATEST EDITIONS OF ALL APPLICABLE CODES AND UTILITY COMPANY STANDARDS. CONTACT THE UTILITY COMPANY REPRESENTATIVES AND VERIFY THEIR REQUIREMENTS.	G2. THIS IS A GENERALIZED LEGEND SHEET. THIS CONTRACT MAY NOT USE ALL INFORMATION SHOWN.	G4. INFORMATION SHOWN MAY NOT BE ALL INCLUSIVE. SEE ALSO ANSI C37.2, Y1.1, Y32.2, AND Y32.9.
	G3. NOTIFY THE ENGINEER IMMEDIATELY IF CONFLICTS IN EQUIPMENT LOCATIONS ARE DISCOVERED OR IF PROBLEMS ARISE DUE TO FIELD CONDITIONS, LACK OF INFORMATION OR ANY OTHER REASON. NO PAYMENT WILL BE MADE FOR CHANGES WHICH HAVE NOT BEEN FAVORABLY REVIEWED BY THE ENGINEER.	G5. VERIFY ALL COLOR REQUIREMENTS BEFORE ORDERING MATERIALS.
		G6. REFER TO THE MECHANICAL DRAWINGS FOR CERTAIN CONTROL DIAGRAMS AND EXACT LOCATIONS OF MECHANICAL EQUIPMENT AND FOR CERTAIN CONNECTIONS TO BE MADE TO ELECTRICAL CIRCUITS.
PLAN NOTES:		
P1. CONDUIT SIZE AND FILL SHALL BE AS INDICATED. WHERE NO SIZE IS SHOWN, THE CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE EDITION OF THE NATIONAL ELECTRICAL CODE ADOPTED BY THE AUTHORITY HAVING CODE ENFORCEMENT JURISDICTION. WHERE NO FILL IS INDICATED, THE FILL SHALL BE 2#12. PROVIDE 3/16 INCH NYLON PULL ROPE IN EACH EMPTY CONDUIT.	P3. LOWER CASE LETTERS ADJACENT TO A SWITCH OR LIGHT FIXTURE INDICATE A SWITCHED CIRCUIT. FOR 4 LAMP FLUORESCENT FIXTURES WIRED IN PAIRS WITHIN EACH FIXTURE, THE "a" SWITCH CONTROLS THE OUTER LAMPS AND THE "b" SWITCH CONTROLS THE INNER LAMPS; WIRE 3 LAMP FIXTURES SIMILARLY.	
P2. CONDUIT AND WIRE LAYOUT FOR LIGHTING AND RECEPTACLES NOT SHOWN. PROVIDE PER NEC.	P4. NUMBER OF CIRCLES DOES NOT REPRESENT THE NUMBER OF CONDUITS IN THE ENCASEMENT.	

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-	RECORD DRAWING
	AUG 2014
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SCALES	
	1" = 1'
	1" = 25mm
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DESIGNED	
PAR / RFB	
DRAWN	
PAR / RFB	
CHECKED	
RCG	

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NO.	REVISION	DATE	BY
-	RECORD DRAWING	AUG 2014	KJ

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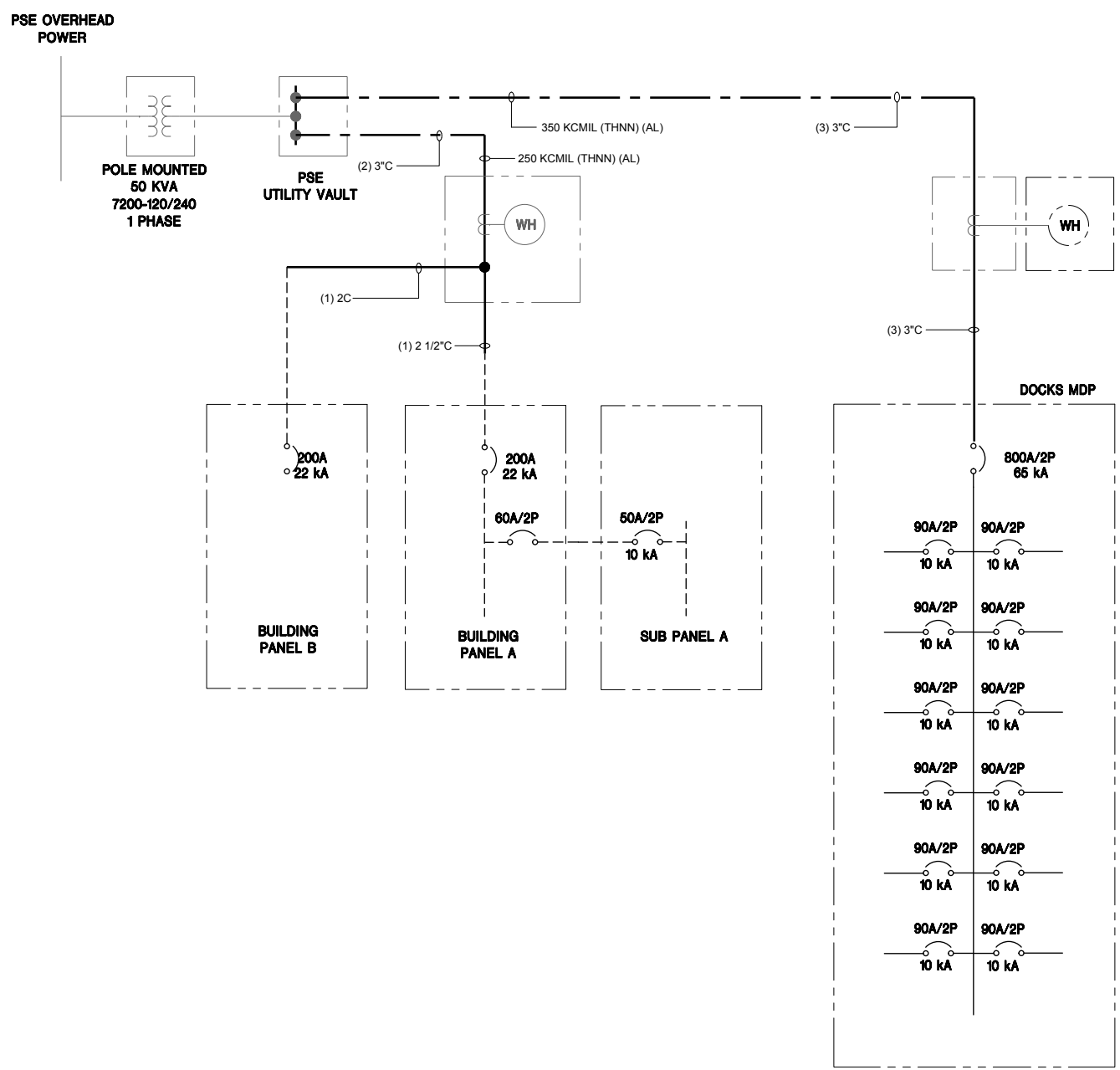
CORNET BAY MARINA REMEDIATION

Kennedy/Jenks Consultants
FEDERAL WAY, WA

ELECTRICAL ABBREVIATIONS AND SYMBOLS	
FILE NAME	1396010_E01
JOB NO.	1396010.00
DATE	AUGUST 2014
SHEET	OF
E1	

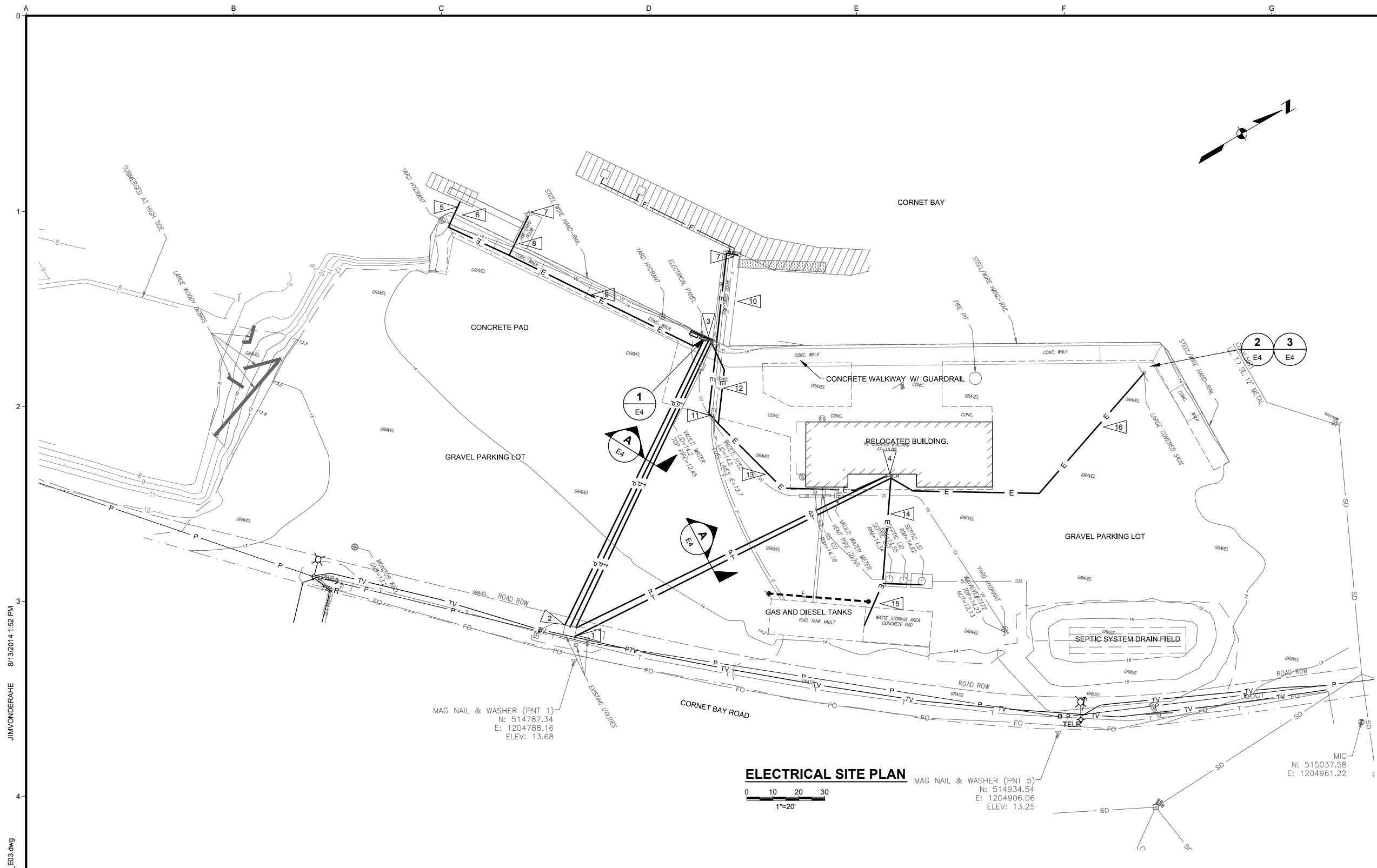
P:\CAD\131396010_00 Ecology Comet Bay Remedial Action\1396010_E02.dwg 8/4/2014 9:38 AM JIMVONDERAHE

- NOTES:**
- ALL WORK IN THE PSE UTILITY VAULT BY PSE. COORDINATE ALL WORK WITH PSE. CONTACT IS S. JOHNSON AT 360.348.5229.
 - PROVIDE (N) DOCKS MDP FOR FINAL INSTALLATION.
 - PROVIDE (N) CONDUIT AND WIRES FROM THE PSE UTILITY VAULT TO THE BUILDING AND TO THE DOCKS MDP FOR FINAL INSTALLATION. SIZE ALL WIRES PER NEC.
 - RECONNECT (E) WIRES FROM DOCKS MDP TO THE DOCKS VIA DOCK WALKWAY.
 - THE KA RATINGS SHOWN ARE THE SHORT CIRCUIT RATINGS FOR THE INDIVIDUAL CIRCUIT BREAKERS.



FINAL

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	<table border="1"> <tr> <th>NO.</th> <th>REVISION</th> <th>DATE</th> <th>BY</th> </tr> <tr> <td>-</td> <td>RECORD DRAWING</td> <td>AUG 2014</td> <td>KJ</td> </tr> </table>	NO.	REVISION	DATE			BY	-	RECORD DRAWING	AUG 2014	KJ
NO.	REVISION	DATE	BY								
-	RECORD DRAWING	AUG 2014	KJ								
				<p>CHECKED</p> <p>RCG</p>		<p>DATE</p> <p>AUGUST 2014</p>					
						<p>SHEET OF</p> <p>E2</p>					



- NOTES:**
- 1 2-3" CONDUIT AND 3 DIRECT BURY PHONE LINES TO BUILDING.
 - 2 3-3" CONDUIT AND 3 DIRECT BURY PHONE LINES TO MDP.
 - 3 NEW MAIN DISTRIBUTION PANEL AND PHONE BOX FOR DOCKS.
 - 4 EXISTING PANEL AND METER FOR BUILDING.
 - 5 2" SEAL TIGHT FLEX FOR TIDES.
 - 6 THROUGH BULK HEAD USING 2" TANK ADAPTER.
 - 7 OUTDOOR LIGHT.
 - 8 THROUGH BULK HEAD USING 1" TANK ADAPTER.
 - 9 1-2" CONDUIT FROM MDP TO FEED E-DOCK.
 - 10 4-2" AND 1-2.5" CONDUIT FROM MDP TO MAIN DOCK.
 - 11 1-3/4" CONDUIT FOR E-DOCK LIGHT.
 - 12 1-3/4" CONDUIT FOR MAIN DOCK LIGHT AND DISPENSERS.
 - 13 3-3/4" CONDUIT FOR FUEL SUMP ALARM, DOCK LIGHTS AND FUEL DISPENSERS.
 - 14 2-3/4" CONDUIT FOR SEPTIC POWER AND TRANSDUCER.
 - 15 3-3/4" CONDUIT FOR PROPANE, VAULT VENT AND VAULT ALARM 1-1" CONDUIT FOR FUEL PUMPS.
 - 16 1-3/4" CONDUIT FOR SHELL SIGN.

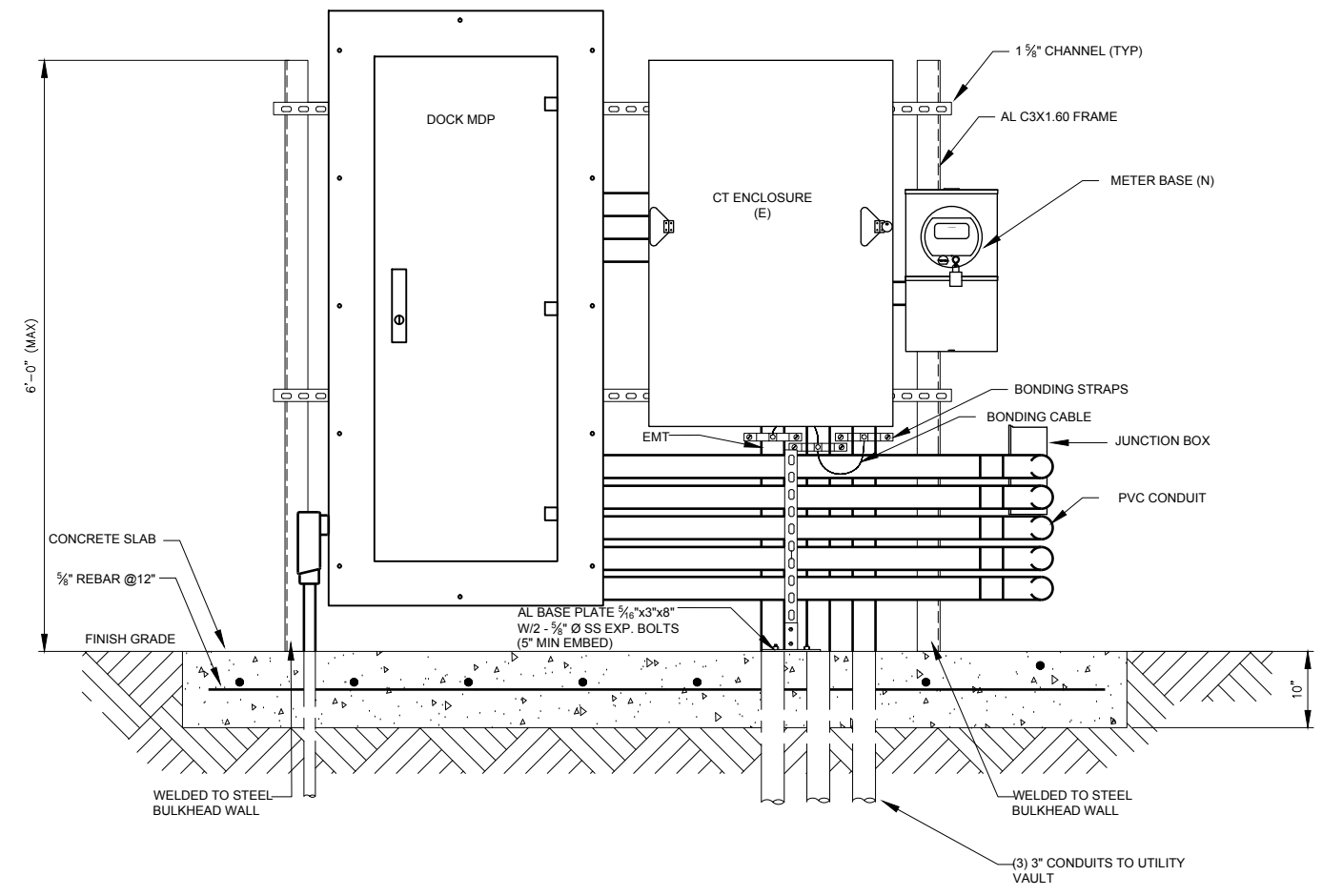
ELECTRICAL SITE PLAN
 0 10 20 30
 1"=20'

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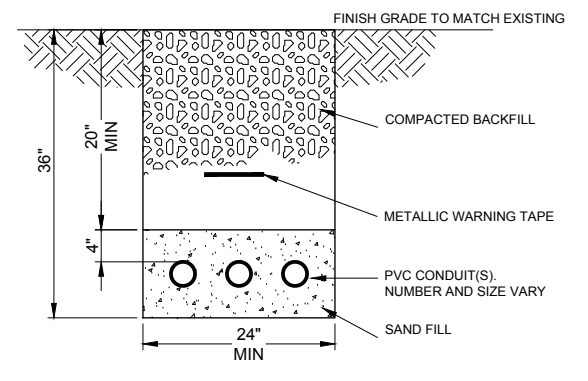
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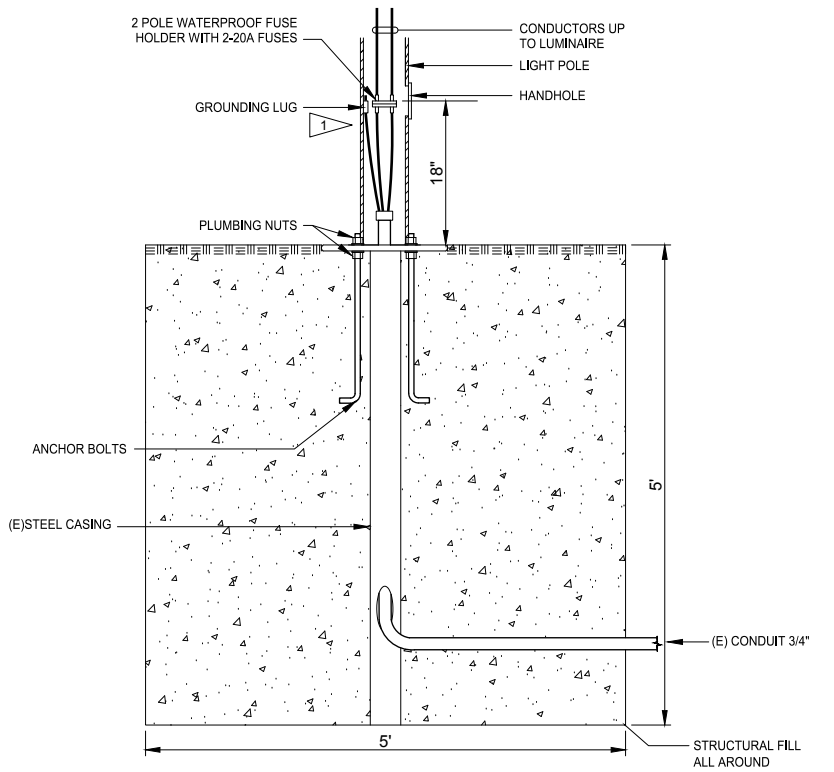
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MAIN DISTRIBUTION PANELBOARD AND METER INSTALLATION 1
 NOT TO SCALE E3



TYPICAL UTILITY POWER TRENCH SECTION A
 NOT TO SCALE E3



SIGN POLE BASE 2
 NOT TO SCALE E3



SIGN POLE BASE 3
 NOT TO SCALE E3

NOTES:
 1 ELECTRICAL FOR SIGN WAS GROUNDED AT BREAKER BOX.

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SCALES
 0 1"
 0 25mm
 IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.

DESIGNED
 PAR / RFB
 DRAWN
 PAR / RFB/ JEV
 CHECKED
 RCG

WASHINGTON STATE DEPARTMENT OF ECOLOGY
CORNET BAY MARINA REMEDIATION
 Kennedy/Jenks Consultants
 FEDERAL WAY, WA

ELECTRICAL DETAILS

FILE NAME
 1396010_E04.DWG
 JOB NO.
 1396010.00
 DATE
 AUGUST 2014
 SHEET OF
E4

INSTRUMENT SYMBOL IDENTIFIERS

FIRST LETTER		SUCCEEDING LETTERS		
MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS	ALARM		
B	BURNER, COMBUSTION	USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
C	USER'S CHOICE		CONTROL	CLOSED
D	DENSITY	DIFFERENTIAL	DAMPER	
E	VOLTAGE		SENSOR (PRIMARY ELEMENT)	
F	FLOW RATE	RATIO (FRACTION)		
G	USER'S CHOICE	GLASS, VIEWING DEVICE		
H	HAND			HIGH
I	CURRENT (ELECTRICAL)		INDICATE	
J	POWER	SCAN		
K	TIME, TIME SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION
L	LEVEL		LIGHT	LOW
M	MOISTURE	MOMENTARY		MIDDLE, INTERMEDIATE
N	USER'S CHOICE	USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
O	USER'S CHOICE	ORIFICE, RESTRICTION		OPEN
P	PRESSURE, VACUUM		POINT (TEST) CONNECTION	
Q	QUANTITY	INTEGRATE, TOTALIZE		
R	RADIATION		RECORD	
S	SPEED, FREQUENCY	SAFETY	SWITCH	
T	TEMPERATURE			TRANSMIT
U	MULTI VARIABLE		MULTIFUNCTION	MULTIFUNCTION
V	VIBRATION, MECHANICAL ANALYSIS			VALVE, DAMPER, OR LOUVER
W	WEIGHT, FORCE		WELL	
X	UNCLASSIFIED	X AXIS	UNCLASSIFIED	UNCLASSIFIED
Y	EVENT, STATE, PRESENCE	Y AXIS		RELAY, COMPUTE, CONVERT
Z	POSITION, DIMENSION	Z AXIS		DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT

GENERAL INSTRUMENT OR FUNCTION SYMBOLS	FIELD MOUNTED	PRIMARY LOCATION ACCESSIBLE TO OPERATOR	AUXILIARY LOCATION ACCESSIBLE TO OPERATOR	NORMALLY INACCESSIBLE OR BEHIND THE PANEL
DISCRETE INSTRUMENTS				
SHARED DISPLAY, SHARED CONTROL				
COMPUTER FUNCTION				
PROGRAMMABLE LOGIC CONTROL				

J-4 FUNCTION BLOCK DESIGNATORS

	SUMMING		ROOT EXTRACTION
	DIFFERENCE		SQUARE ROOT
	INTEGRAL		EXPONENTIAL
	DERIVATIVE		HIGH SELECTING
	MULTIPLYING		LOW SELECTING
	DIVIDING		BIAS
	CONVERT:		NONLINEAR OR UNSPECIFIED FUNCTION

* E - VOLTAGE H - HYDRAULIC
 I - CURRENT O - ELECTROMAGNETIC, SONIC
 P - PNEUMATIC R - RESISTANCE (ELECT)
 A - ANALOG D - DIGITAL
 B - BINARY

J-6 HANDSWITCH DESIGNATORS

HOA	HAND-OFF-AUTO	LR	LOCAL-REMOTE
HOR	HAND-OFF-REMOTE	OC	OPEN-CLOSE
F-R	FORWARD-REVERSE	OCA	OPEN-CLOSE-AUTO
1-0	ON-OFF	A/M	AUTO-MANUAL

INSTRUMENT SERVICES

AS	INSTRUMENT AIR SUPPLY (NOTE 4)
ES	120 VAC ELECTRICAL SERVICE (DIFFERENT VOLTAGES ARE SPECIFICALLY NOTED)

PLC INPUT/OUTPUT

	DISCRETE INPUT		ANALOG INPUT
	DISCRETE OUTPUT		ANALOG OUTPUT

FLOW PRIMARY ELEMENTS

	ORIFICE PLATE
	SINGLE PORT PITOT TUBE OR PITOT-VENTURI TUBE
	VENTURI TUBE
	AVERAGING PITOT TUBE
	FLUME
	WEIR
	TURBINE OR PROPELLER-TYPE PRIMARY ELEMENT
	THERMAL MASS FLOWMETER
	POSITIVE DISPLACEMENT TYPE FLOW TOTALIZING INDICATOR
	VORTEX SENSOR
	TARGET TYPE SENSOR
	FLOW NOZZLE
	MAGNETIC FLOWMETER
	SONIC FLOWMETER
	ROTAMETER
	ROTAMETER WITH INTEGRAL VALVE

LINES

	MAIN PROCESS
	SECONDARY PROCESS
	REFERENCES LEAVING SHEET
	LINE CONTINUATION TO DRAWING REFERENCE
	REFERENCES ENTERING SHEET
	FROM DRAWING REFERENCE LINE CONTINUATION
	24" BW PIPE SYSTEM PIPE SIZE IN INCHES

	ELECTRICAL SIGNAL
	SOFTWARE OR DATALINK
	PNEUMATIC
	HYDRAULIC
	CAPILLARY TUBE
	ELECTROMAGNETIC OR SONIC (GUIDED)

	MECHANICAL		ELECTRICAL
	OR NOT CONNECTED		

VALVES

	GATE VALVE
	GLOBE VALVE
	PLUG VALVE
	CHECK VALVE
	PINCH VALVE
	DIAPHRAGM VALVE
	BUTTERFLY VALVE
	BALL VALVE
	NEEDLE VALVE
	PLUG (COCK)
	PRESSURE REDUCING REGULATING VALVE, SELF-CONTAINED
	BACK PRESSURE REGULATING VALVE, SELF-CONTAINED
	PRESSURE REDUCING REGULATOR WITH EXTERNAL PRESSURE TAP
	3-WAY VALVE
	4-WAY VALVE
	ANGLE VALVE
	PRESSURE RELIEF VALVE
	CLOSED DURING NORMAL OPERATION
	SHADING INDICATES PORT TO BE CLOSED DURING NORMAL OPERATION. DOT INDICATES PORT TO BE CLOSED DURING ALTERNATE OPERATION.

* FC = FAIL CLOSED LC = LOCKED CLOSED
 FO = FAIL OPEN LO = LOCKED OPEN

VALVE OPERATORS

	DIAPHRAGM		CYLINDER OPERATOR
	DIAPHRAGM PRESSURE BALANCED		SOLENOID
	MOTOR		SOLENOID VALVE

TYPICAL CONNECTION

	IN-LINE DEVICE
	DIRECT CONNECTION TO PROCESS
	TEMPERATURE ELEMENT WITH WELL
	RADIATION OR SONIC SENSING
	FILLED SYSTEM, DIAPHRAGM SEAL CONNECTION

MISCELLANEOUS

	FLANGE
	UNION
	Y STRAINER
	FLOW STRAIGHTENING VANE
	TEE
	SCREWED CAP
	WELDED CAP
	BLIND FLANGE
	REDUCER
	HOSE BIBB CONNECTION
	EXPANSION JOINT
	FLEXIBLE COUPLING
	FLANGED COUPLING ADAPTER
	SLUICE GATE OR SLIDE GATE
	DRAIN
	DIAPHRAGM SEAL
	RUPTURE DISK, PRESSURE
	RUPTURE DISK, VACUUM
	PURGE
	THERMOMETER WELL
	CALIBRATION CYLINDER
	PULSATION DAMPER
	AIR RELIEF VALVE
	AIR RELEASE
	LEVEL PROBE
	CHEMICAL DIFFUSER
	STATIC MIXER
	EDUCTOR/INJECTOR
	INTERLOCK. NUMBER IS THE CROSS REFERENCE TO A SPECIFIC ELEMENTARY DIAGRAM OR TO A SPECIFIC CONTROL STRATEGY DESCRIBED IN THE SPECS
	* AV - AIR VALVE
	F - FILTER
	T - TRAP
	FH - FIRE HYDRANT
	WATER LINE
	GRAVITY FLOW

EQUIPMENT

	MIXER
	VERTICAL TURBINE PUMP
	SUBMERSIBLE PUMP
	PUMP BLOWER
	PUMP
	METERING PUMP
	PUMP PROGRESSIVE CAVITY
	ROTARY PUMP
	PERISTALTIC PUMP

- NOTES:
- THIS IS A GENERALIZED LEGEND SHEET.
 - SEE ALSO ISA S5.1, S5.3 AND S7.3.
 - INSTRUMENTS MARKED WITH AN ASTERISK ARE FURNISHED WITH THE EQUIPMENT.
 - REFER TO ISA RP7.7 FOR INSTRUMENT AIR QUALITY STANDARDS.

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SCALES

0 1" = 25mm

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DESIGNED	RGC
DRAWN	LMM
CHECKED	

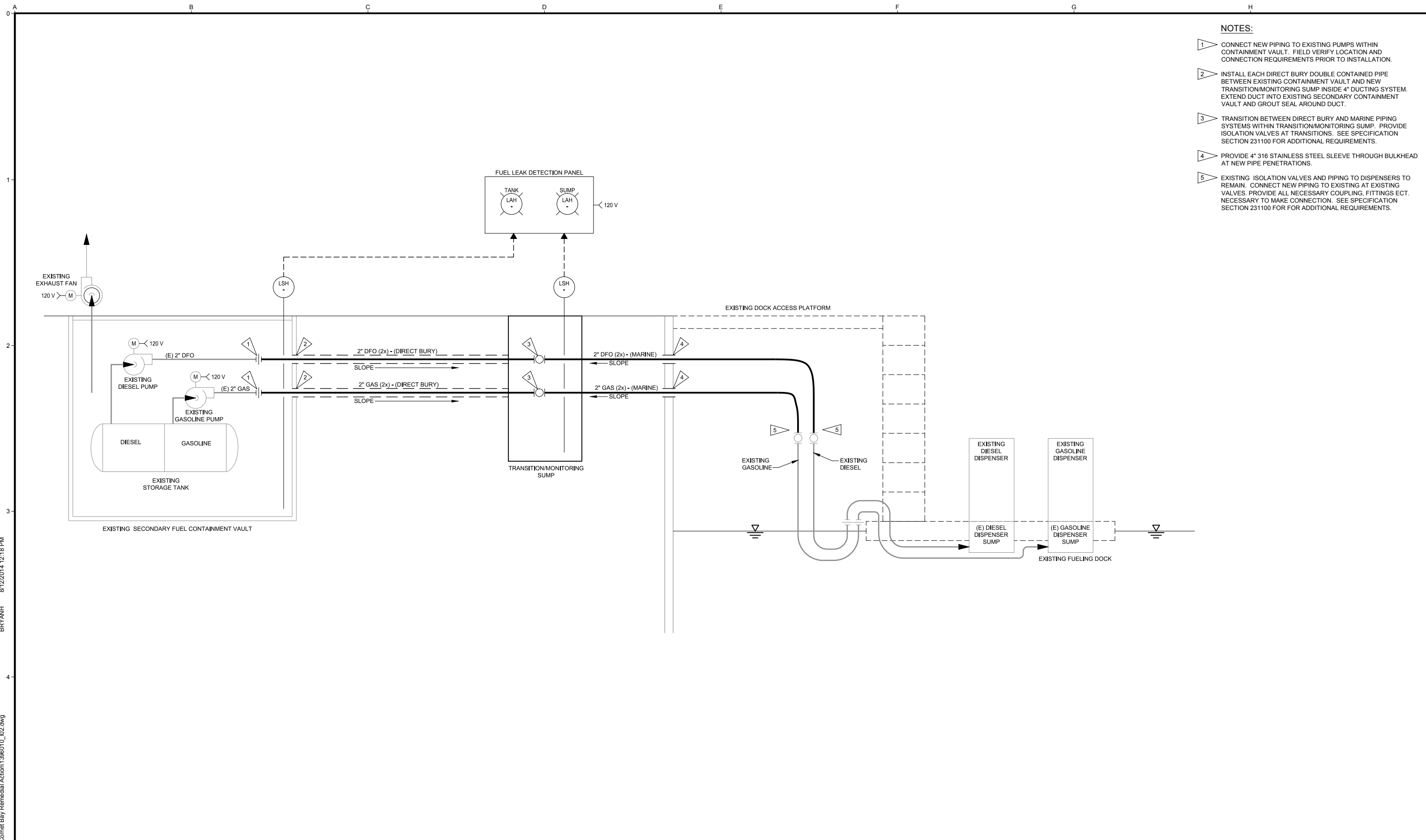
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CORNET BAY MARINA REMEDIATION

Kennedy/Jenks Consultants
 FEDERAL WAY, WA

P&ID LEGEND, ABBREVIATIONS, NOTES AND SYMBOLS

FILE NAME	1396010_01
JOB NO.	1396010.00
DATE	AUGUST 2014
SHEET	OF 11



- NOTES:**
- 1 CONNECT NEW PIPING TO EXISTING PUMPS WITHIN CONTAINMENT VAULT. FIELD VERIFY LOCATION AND CONNECTION REQUIREMENTS PRIOR TO INSTALLATION.
 - 2 INSTALL EACH DIRECT BURY DOUBLE CONTAINED PIPE BETWEEN EXISTING CONTAINMENT VAULT AND NEW TRANSITION/MONITORING SUMP INSIDE 4\"/>

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USE OF DOCUMENTS

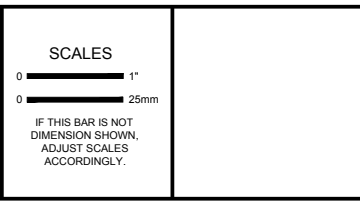
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DRAWN	BBH
CHECKED	RCG

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CORNET BAY MARINA REMEDIATION
 Kennedy/Jenks Consultants
 FEDERAL WAY, WA

P&ID - FUELING SYSTEM

FILE NAME	1396010_02
JOB NO.	1396010.00
DATE	AUGUST 2014
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