

**ATTACHMENT E - PHASE 2 ENVIRONMENTAL
ASSESSMENT REPORT FOR THE PROPERTY
AT 426 EAST 11TH STREET**



October 2023
426 East 11th Street Due Diligence



Phase 2 Environmental Assessment Report for the Property at 426 East 11th Street

Prepared for Port of Tacoma

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Prepared for
Port of Tacoma
One Sitcum Plaza
Tacoma, Washington 98401-1837

Prepared by
Anchor QEA, LLC
949 Market Street, Suite 700
Tacoma, Washington 98402

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ABBREVIATIONS

µg	microgram
ASTM	ASTM International
bgs	below ground surface
City	City of Tacoma
cPAH	carcinogenic polycyclic aromatic hydrocarbon
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
ESA	environmental site assessment
kg	kilogram
L	liter
mg	milligram
MLLW	mean lower low water
MTCA	Model Toxics Control Act
ng	nanogram
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
Port	Port of Tacoma
Property	426 East 11th Street
Report	Phase 2 Environmental Assessment Report for the Property at 426 East 11th Street
SVOC	semivolatile organic compound
TEQ	toxicity equivalence
VOC	volatile organic compound
WAC	Washington Administrative Code

1 Introduction

This Phase 2 Environmental Assessment Report for the Property and 426 East 11th Street (Report) describes the results of Phase 2 soil and groundwater testing completed at the property located at 426 East 11th Street in Tacoma, Washington (the Property). The Property includes two Pierce County tax parcels (parcels 895000-1100 and 895000-1110) as shown in Figure 1.

The Phase 2 soil and groundwater testing was conducted to support the Port of Tacoma's (Port's) planned acquisition of the Property from the current Property owner, 426 11th Street LLC. No specific development plans have been identified by the Port at this time for the Property.

The purpose of the Phase 2 soil and groundwater testing activities was to evaluate current soil and groundwater quality at the Property relative to current soil and groundwater cleanup levels applicable under Washington State's Model Toxics Control Act (MTCA) regulations (Washington Administrative Code [WAC] 173-340).

The work described in this Report was conducted in parallel with environmental testing at the adjacent Port-owned property known as Parcel 94. Testing for Parcel 94 was conducted under a work plan (Anchor QEA 2023a) reviewed and approved by the Washington Department of Ecology (Ecology). The methods used for this Report were the same as those used for the work at Parcel 94.

Section 2 of this Report provides a description of the Property, its history, and its geologic setting. Section 3 provides a summary of the testing methods, and Section 4 presents the results of testing. Section 5 contains a summary of study findings.

This Report includes the following appendices:

- Appendix A, Historical Aerial Photographs
- Appendix B, Other Historical Photographs
- Appendix C, Historical Maps
- Appendix D, Historical City Directories
- Appendix E, Boring Logs
- Appendix F, Analytical Data Reports

2 Background

This section provides an overview of the history of the Property, its physical site setting, and the purpose of the Phase 2 testing.

2.1 Property History

The history of Property and vicinity have been documented in historical photographs (Appendices A and B), historical maps (Appendix C), historical City of Tacoma (City) directories (Appendix D), and the findings of the Phase 1 environmental assessment (Anchor QEA 2023b).

2.1.1 *History of the Property*

Prior to settlement of the Pacific Northwest, the Property was located near the mouth of the Puyallup River in an area heavily used by the Puyallup Tribe. The southern branch of the river flowed through what is now the Wheeler Osgood Waterway into what is now the Foss Waterway.

The Property and most of the adjacent Parcel 94 property (currently owned by the Port) consisted originally of intertidal or shallow subtidal tideflat areas. To the south and east of the Property was a former island that is colloquially referred to as “the Boot” for its characteristic boot shape (see Figure 2 and also the 1877 map of the Tacoma Tideflats in Appendix C).

The Northern Pacific Railroad established a rail line between Tacoma and the Puyallup and Sumner areas in 1873. That rail line crossed over the Foss Waterway to the south of what is now the Wheeler Osgood Waterway. Other than the rail line, the tideflats in the vicinity of the Property remained vacant through the mid-1880s. An 1880 photograph of the Property and vicinity is included in Appendix B.

The Foss Waterway (formerly City Waterway) was dredged initially by the Tacoma Land Company in 1889 (Morgan 1982). Placement locations for the dredge materials are not well documented. A larger dredging event was conducted between 1902 and 1905 (PRWC 2014). During this later dredging event, wooden bulkheads were constructed along the sides of the Foss and Wheeler Osgood Waterways. Hydraulic fill from waterway dredging activities was placed throughout the undeveloped portions of the area to create upland for future development. The Property, most of Parcel 94, and the other properties in the vicinity were filled to roughly their current grades during this second larger dredging event.

The condition of the Property and vicinity after completion of the hydraulic fill activity is visible in the photograph from 1910 in Appendix B and in historical maps from 1912 and 1926 in Appendix C.

The first recorded development of the Property was in approximately 1910. Buildings constructed on the site included small shops, tool sheds, and a larger two-story wooden building located in the

northeastern corner of the Property. These buildings were initially constructed for the Richardson & Elmer Lumber Company, a manufacturer of sashes, doors, and lumber. The buildings were listed on a historical Sanborn map as vacant in 1912. The buildings were listed on a 1926 map as being occupied in 1926 by the City Millwork Company. The building is visible in a historical photo from 1927 (Appendix B) and an aerial photograph from 1931.

The Property was acquired by affiliates of the current owners in 1936 (Anchor QEA 2023b). Hampton Lumber Company established a lumber storage yard on the Property in 1938. In 1941 a new wood-framed, two-story industrial building was constructed in 1941, occupying the eastern two-thirds of the Property's northern tax parcel. An aerial photograph from 1941 is included in Appendix A, showing the original Hampton Lumber Company building footprint.

The Hampton Lumber Company building was expanded in 1948 to the west, butting up against E Street. A 1948 photograph (Appendix B) and an aerial photograph from 1957 shows the built-out condition of the Hampton Lumber Company building. The building was used by the Hampton Lumber Company as a retail warehouse for lumber products until it was destroyed by fire in November of 1965 (Anchor QEA 2023b). Hampton moved its operations following the fire.

Other than a perimeter fence, no structures have been constructed on the Property since 1965. Aerial photographs between 1968 and 1990 (Appendix A) show the Property being used for lumber storage. Interviews with the Property owner indicated that the Property was used for storage of finished lumber for the adjacent Wattles Company and for Lindal Cedar Homes during the 1980s and 1990s. The Property owner also recalled that the Wattles Company conducted wood treating (most likely the application of sap stain preventative) of finished lumber in the northern portion of Parcel 94, near the Property (Anchor QEA 2023b).

The Property appeared vacant in an aerial photograph from 2006. Aerial photographs from 2009 through 2019 show the Property was used for vehicle and heavy equipment storage. Interviews with the Property owner indicated that the Property was leased to Ness Campbell Cranes and later to NTR Logistics for equipment and vehicle storage. NTR Logistics was an oversized freight hauler specializing in the hauling of wind turbines and large equipment. NTR Logistics relocated operations to another Port-owned property along Port of Tacoma Road in 2018 (Anchor QEA 2023b).

2.1.2 History of Adjacent Properties

In 1888, a large lumber mill was constructed to the northeast of the Property on portions of the Boot (Morgan 1982). The mill was operated as the St. Paul and Tacoma Lumber Company, an affiliate of the Northern Pacific Railroad.

In 1889, the Wheeler Osgood lumber mill and sash and door factory was founded (Morgan 1982). The mill made wooden sashes, windows, and doors and became a significant business and local

employer over the next several decades (McClary 2009). It was constructed to the east and southeast of the Property on the “heel” of the Boot. Photographs from 1894 (Appendix B) and maps from 1896 (Appendix C) document the early mill features. Most of the mill was located to the east of F Street, but a number of small lumber sheds were constructed on the southeastern corner of Parcel 94 in the 1890s. The mill was destroyed by fire in 1902 and promptly rebuilt.

When the Foss Waterway was dredged in the early 1900s, both Parcel 94 and the properties in the vicinity were bulkheaded and filled with hydraulic dredge materials from the waterway. The northern portion of Parcel 94 (between D Street and F Street) was then developed. A three-story industrial building was constructed just west of the Property housing the operations of the Washington Parlor Furniture Company. Operations immediately south of that included the Tacoma Wood Pipe Company and the Noll Welty Lumber Company. The Washington Parlor Furniture Company remained active through 1926, but by then the operations to the south were replaced by the Pacific Lumber and Millwork Company (see 1926 map in Appendix C).

The properties to the northwest of Parcel 94 were initially developed for industrial uses during this same time period. The Petrich property was initially developed for use by the Vermont Marble Company (see 1912 and 1926 maps in Appendix C). The Woodworth property was used initially for operation of the Peters Sand & Gravel Company (see 1926 map in Appendix C). The southern portion of Parcel 94 remained largely vacant until the 1940s.

In the 1940s, Parcel 94 was developed for manufacturing of plywood veneer by the Northwest Door Company. The north-central portion (just south of 11th Street) was used for planing operations. The three-story industrial building formerly used for furniture manufacturing remained present, but other buildings had been constructed to enclose virtually all of the Property between D Street and E Street to the south. The western portion of Parcel 94 was used for wood chip (also known as “hog fuel”) storage and barge loading, and a log dump was located along the shoreline of the Wheeler Osgood Waterway.

Between the 1920s and the 1950s, the eastern portion of Parcel 94 (between E Street and F Street) continued to be used by the Wheeler Osgood sash and door operations (see 1948 photo in Appendix B and the 1950 map in Appendix C). Lumber sheds and planing operations were located in the southeastern portion of Parcel 94. The areas to the north were used for other mill support operations, including a machine shop and lumber storage. One building in this area (Figure 2) was variously described as a garage (1926 map in Appendix C) or a pipe and electric shop (1950 map in Appendix C).

By the 1950s the properties located northwest of Parcel 94 had been fully developed for industrial use. During 1950 (1950 map in Appendix C) the Petrich property was occupied by the Western Boat Building Company and then later in 1965 by Marine Iron Works, Inc. (1965 map in Appendix C). The

Woodworth property, initially used for operation of the Peters Sand & Gravel Company (1926 map in Appendix C), had been converted to the Woodworth Company asphalt plant (1950 and 1965 maps in Appendix C).

By 1950, a gasoline service station was constructed to the northeast of the Property, at the intersection of East F Street and St. Paul Avenue (1950 map in Appendix C). Maps from 1965 show a new service station building on the same property. That building is visible in aerial photographs from at least 1957 (Appendix A) and remains present on that property. The former service station is currently occupied by Tacoma Marine Repair, a boat repair company.

Wheeler Osgood mill operations reportedly terminated in 1951 (McClary 2009). The main Wheeler Osgood mill east of F Street was destroyed by a large fire on July 18, 1959, but the fire did not appear to have affected Parcel 94.

By 1965, the Northwest Door Company had been acquired by the St. Regis Paper Company (1965 map in Appendix C) and had expanded operations throughout Parcel 94, including the area between E Street and F Street (the area formerly occupied by Wheeler Osgood support operations). The western portion of Parcel 94 remained used for hog fuel storage, but a small office building, still present today, had been constructed there by 1968. The buildings in the central portion of Parcel 94 remained the same as in 1950. Additional buildings had been constructed in the eastern portion of Parcel 94, including additional planing and storage buildings, a butane tank, and a dry kiln. The former garage building was used at this time for plywood and glue storage. The lumber storage buildings formerly located in the southeastern portion of Parcel 94 were removed sometime between 1972 and 1974.

By 1983, Parcel 94 had been acquired by the Wattles Company. The Wattles Company managed the Property for storage and warehousing and leased portions of the Property to other commercial and industrial businesses. The complex of buildings between D Street, E Street, 11th Street, and 12th Street, were removed between 1980 and 1990 (Appendix A). Other buildings at Parcel 94 remained the same between the 1970s, 1980s, and 1990s. As of 1988, the Property listing for 1203 East D Street listed 22 different individual addresses (Appendix D), with some spaces vacant and other areas occupied by a variety of businesses, including the Wattles Company. At that time, Western Steel Fabricators was listed in the portion of Parcel 94 designated as 1207 East D Street and both Sound Environmental Inc. Filtration Equipment and Marine Floats were listed in the portion of Parcel 94 designated as 1208 East D Street.

The cleanup of the Foss and Wheeler Osgood waterways was completed in 2006. This work was led by the City under a 2003 Consent Decree (C03-5117RJB). The Port contributed to that work through a cash and real estate settlement with the City. Post-remediation monitoring was completed in 2008.

The Port acquired Parcel 94 from the Wattles Company in January of 2007. The purchase was conducted following completion of a Phase 1 environmental site assessment (ESA) (Landau 2003), a building condition assessment (Washington Engineering 2003), a Phase 2 ESA (Landau 2005), and follow-up testing by the seller's consultant (EMS 2005, 2007). By 2009, all of the buildings had been demolished and removed from Parcel 94, with the exception of the small office building in the western portion of the Property that remains present today.

Since 2009, Parcel 94 has remained undeveloped except for the existing office building. Portions of Parcel 94 have been leased by the Port to a series of tenants, including Marine Floats and Sky City Trucking, LLC. Marine Floats operated from the western portion of the Property until at least 2019, using the ramp and floats located within the Wheeler Osgood Waterway to assemble marina float structures. Sky City Trucking has used the office building and the western portion of Parcel 94 for trucking company operations. No vehicle maintenance activities or hazardous materials handling are conducted on Parcel 94 by Sky City Trucking.

Parcel 94 is currently under evaluation by the Port for development of a maritime center, including a maritime skills center and a new Port administration building. Environmental and cultural resource baseline studies were recently completed in support of that work.

2.2 Geologic and Hydrogeologic Conditions

The Property is situated in the Commencement Bay Tidelands area. Native stratigraphy in this area is heavily influenced by the Puyallup River delta and consists of variable layers of alluvial silt, sand, and clay deposits overlying older glacial deposits.

With the dredging and creation of the Foss Waterway in the early 1900s, dredged material was placed behind bulkheads along the shore of Parcel 94, creating a fill layer at the surface consisting primarily of fine to medium sand and silty sand with occasional shell debris. The 1877 shoreline as shown in Figure 2 illustrates the approximate location of the pre-development shoreline, prior to placement of hydraulic fill from waterway development.

Geologic and hydrogeologic conditions in the adjacent Parcel 94 property were initially assessed as part of the 2005 Landau Phase 2 site assessment performed on behalf of the Port. That work included drilling 16 temporary soil borings using a direct-push drill rig. The borings were installed to depths between 8 and 12 feet below ground surface (bgs).

Soil conditions encountered in most areas of Parcel 94 included sandy hydraulic fill with occasional non-indigenous anthropogenic debris. The debris was most abundant in the southeastern corner of Parcel 94, the area that was filled and developed early, prior to hydraulic fill placed in the early 1900s. In that area, the debris included fragments of glass, brick, ceramic, and metal. A deeper soil horizon

consisting of silty native soils was encountered at varying depths from approximately 4 feet to greater than 12 feet bgs. This silty soil layer represented the pre-development tideflat deposit.

Groundwater was encountered during Parcel 94 drilling activities in the hydraulic fill layer located above the native tideflat deposit. The depths to water averaged 8 to 10 feet bgs, but groundwater was present at shallower depths in some areas of Parcel 94. These shallower groundwater areas indicated the presence of perched water in some areas where the silty tideflat deposit was shallower.

No permanent shallow wells have been installed at Parcel 94. However, groundwater studies are available from environmental testing performed during cleanup of the adjacent Petrich property located further west (Pacific Crest 2016). Those studies identified similar stratigraphy as at Parcel 94, with sandy hydraulic fill soils overlying native sediments with a similar silt layer at the interface between fill and native soils. Shallow groundwater in permanent wells at the Petrich property range in depth from 6 to 12 feet bgs with groundwater flowing west, towards the Foss Waterway.

Based on the existing studies described previously, it is generally expected that groundwater flows to the west or west-southwest toward the Foss Waterway. Groundwater elevations are expected to be subject to both seasonal and tidal influences, with tidal influences greatest within 100 to 200 feet of the shoreline.

2.3 Purpose of Phase 2 Testing

The purpose of the testing described in this Report was to document soil and groundwater quality at the Property and to compare current conditions to requirements of the MTCA. The soil and groundwater testing program described in this Report was developed following review of the history of the Property and evaluation of the potential for past releases of petroleum and hazardous substances to have occurred on or adjacent to the Property.

This work described in this Report was conducted in parallel with similar work being performed on the adjacent Parcel 94. The results of testing at Parcel 94 are described in a separate baseline testing report that is currently under development by Anchor QEA on behalf of the Port (Anchor QEA 2023c). Some of the data developed at Parcel 94 provide additional context for the Phase 2 testing data for the Property and are discussed in Sections 4 and 5 of this Report where applicable.

3 Methods

This section provides a concise summary of methods used for completion of Phase 2 soil and groundwater testing at the Property.

3.1 Overview

The Phase 2 testing program used a grid-based sampling approach to collect and analyze soil and groundwater samples from throughout the Property. The testing program used a primary grid with spacings of 30 meters. A total of six borings (Figure 1) were placed at the Property using that grid.

Sampling was performed using temporary soil borings. The soil borings were installed using large-diameter sonic drilling methods that provide continuous soil samples for observation, logging, cultural resource monitoring, and collection of soil samples for analytical testing. As this is a preliminary environmental assessment, no permanent monitoring wells were installed. Groundwater samples were collected from temporary soil borings using pre-packed well screens.

Three of the six borings on the Property were identified for analytical testing, including the borings in the eastern edge of the Property (boring 96 and 97) and the boring in the southwestern portion of the Property (boring 92). The other three borings (borings 93, 94, and 95) were drilled and screened for the presence of apparent contamination. Samples from these three borings were archived for contingent future analysis, but no analytical testing has been performed on these archived samples.

Analytical testing performed on the soils from borings 92, 96, and 97 included testing of both shallow surface soils (0 to 1 and 0 to 2 feet bgs) and subsurface soils from the apparent water table (10 to 12 feet bgs). That testing included analysis for petroleum (both gasoline-range and diesel/oil-range hydrocarbons), dioxin/furans, volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and heavy metals.

Groundwater analytical testing was performed at the water table at three of the soil borings (borings 92, 96, and 97). That testing included analysis for petroleum (both gasoline-range and diesel/oil-range hydrocarbons), VOCs, SVOCs, and total and dissolved heavy metals. The petroleum testing was performed once with and once without silica gel cleanup. That cleanup step removes polar organic materials from the extract, allowing polar and non-polar hydrocarbon to be differentiated. Polar hydrocarbons can include non-petroleum organic matter or partially biodegraded petroleum hydrocarbons.

Groundwater testing was not performed for SVOC compounds, PCBs, or dioxin/furans because these contaminants are extremely sensitive to turbidity artifacts when collected from temporary soil borings.

3.2 Soil Testing Program

Soil sampling was conducted using a 6-inch sonic drilling rig according to the following general procedures:

- An empty core barrel was attached to the drill string and advanced into the subsurface.
- Once the core barrel had been advanced to its full length, casing was driven around the core barrel before it was removed to stabilize the hole.
- The core barrel was extruded from the cased hole, and the material was gently extruded into bags for subsequent logging and testing.
- The core barrel was inserted into the bore hole, and additional drill rods were attached, allowing the core barrel to be advanced beyond the previous sampling.
- The casing was advanced to the new sampling depth prior to the core barrel being removed.
- This process was repeated until refusal was met or the target depth of 20 feet bgs was encountered.
- Temporary boreholes were decommissioned following groundwater sampling in accordance with state regulations (WAC 173-160). Each borehole was abandoned by filling it with bentonite chips and hydrating or by filling with bentonite grout, concrete, cement grout, or neat cement.

Sonic soil cores were advanced to a target depth of 20 feet bgs. One soil sample was collected in the surface soil (0 to 2 feet bgs) and one soil sample was collected at the apparent water table (10 to 12 feet bgs). A third soil sample from the tide flat deposits was collected as an archive.

Core samples were continuously examined to develop a lithologic boring log. The logs are attached to this Report as Appendix E. The samples were logged according to ASTM International (ASTM) D-2488. Field staff also recorded any observations of possible contamination, including presence of anthropogenic material, chemical odor, or staining. The logs also identify the apparent contact between the hydraulic fill layer and the native tideflat layer.

Chemical testing was performed by Eurofins Environment Testing Northwest. Chemical analyses performed on soil are listed in Table 1 and included the following:

- Heavy metals
- VOCs
- SVOCs, including polycyclic aromatic hydrocarbons (PAH)
- Dioxin/furans
- PCBs (measured as Aroclors)
- Total petroleum hydrocarbons (including gas-, diesel-, and motor oil-range hydrocarbons)

3.3 Groundwater Testing Program

Groundwater testing was performed using the temporary soil borings. Because the groundwater was collected from temporary soil borings, the data may be affected by turbidity.

Temporary well screens were installed within each of the temporary borings. The screens consisted of 2-inch diameter, 0.01-inch slotted, Schedule 40 PVC pipe. The depth of installation varied depending on the conditions encountered in each boring but was typically at 15 feet bgs. A temporary sand pack consisting of 12/20 silica sand was placed in the boring annulus from the bottom of the screen interval to approximately 1 foot above the screen interval.

Groundwater samples were collected using a peristaltic pump with dedicated polyethylene tubing at each boring location and in accordance with low-flow groundwater purging and sampling methodology.

Chemical testing was performed by Eurofins Environment Testing Northwest. Chemical analyses performed on groundwater are listed in Table 2 and included the following:

- Total suspended solids
- Total and dissolved heavy metals
- VOCs
- Total petroleum hydrocarbons (including gas, diesel- and oil-range hydrocarbons, which were analyzed both with and without silica gel cleanup)

3.4 Quality Assurance

Quality assurance procedures were implemented consistent with the Ecology-approved Parcel 94 work plan (Anchor QEA 2023a). All analytical testing was performed by an Ecology-certified laboratory following applicable U.S. Environmental Protection Agency (EPA) and Washington State analytical procedures.

Boring locations were surveyed by Sitts & Hill Surveyors, Inc., to verify the lateral and vertical locations of the ground surface at each boring location. Measured survey results are provided on the boring logs in Appendix E in mean lower low water (MLLW) datum.

4 Results

This section summarizes the results of soil and groundwater testing as performed at the Property on July 24 and 25, 2023. The updated analysis of geologic and hydrogeologic conditions is presented in Section 4.1. Groundwater and soil quality data are presented in Sections 4.2 and 4.3, respectively.

4.1 Geologic and Hydrogeologic Conditions

Geologic and hydrogeologic observations from the six soil borings placed at the Property generally confirmed the findings of previous work at Parcel 94 and at the nearby Petrich property (see Section 2.2). Boring logs from the current soil and groundwater testing are attached in Appendix E.

Soils at the Property consisted generally of sandy hydraulic fill placed over the silty native tideflat deposit. The elevation of the native tideflat layer is shown in Figure 2. That figure includes findings both for the Property and from recent work performed on behalf of the Port throughout Parcel 94. Geologic and hydrogeologic observations from the Property include the following:

- The current ground surface elevation ranges from 17.8 feet MLLW to 19.45 feet MLLW, with an average of approximately 19 feet above MLLW.
- The elevation of the silty tideflat deposit varied across the Property from elevations of 3 to 10.2 feet above MLLW (Figure 2).
- Soils between the ground surface and the tideflat deposit were consistent with hydraulic fill (i.e., sandy soils with occasional shell debris).
- Groundwater was present approximately 10 feet below ground surface within the hydraulic fill layer; the average observed groundwater elevation at the time of drilling was 9.7 feet above MLLW.

Very little debris was noted in the hydraulic fill layer. Scattered anthropogenic debris was noted at the interface between the hydraulic fill layer and the underlying tideflat deposit, particularly in the three soil borings located closest to East 11th Street. The debris included scattered nails, brackets, and ceramic ware characteristic of the 1890 to 1905 period when fill material was placed at the Property and vicinity. None of the debris suggested the presence of petroleum or hazardous substances.

4.2 Groundwater Quality

Figure 2 and Table 1 summarize the collected groundwater quality data. Data were compared to MTCA Method A groundwater cleanup levels.

None of the tested contaminants exceeded MTCA Method A cleanup levels except for arsenic in boring 96 groundwater. That boring was located along in the southeastern corner of the Property.

Petroleum, heavy metals, and VOCs were detected at concentrations below cleanup levels at all three of the other groundwater testing locations.

- **Arsenic in Groundwater (1 of 3 locations):** The findings for arsenic showed that the area of groundwater contamination is very localized, limited to the area near boring 96 in the southeastern portion of the Property:
 - At boring 96, arsenic was present at elevated concentrations in both total (unfiltered) and dissolved groundwater samples. The similarity of the results confirm that the elevated arsenic is not the result of a turbidity artifact. The measured concentrations were 65 microgram per liter (µg/L) (total arsenic) and 76 µg/L (dissolved arsenic), significantly higher than the MTCA Method A cleanup level. The MTCA Method A cleanup level for arsenic is 5 µg/L. The estimated background arsenic concentration in Puget Sound area groundwater is 8 µg/L (Ecology 2021).
 - Arsenic concentrations at the other two locations (borings 92 and 97) were below the MTCA Method A cleanup level for both total and dissolved arsenic.
 - The specific cause of the arsenic contamination was not determined. As noted in Section 4.3, soil concentrations of arsenic were below MTCA cleanup levels in all water table soil samples, and the highest arsenic concentrations detected in surface soils was 23 milligrams per kilogram (mg/kg), which only slightly exceeds the cleanup level for unrestricted land use.

4.3 Soil Quality

Soil quality data are presented in Figure 3 and Table 2. For most contaminants, the results were compared to the MTCA Method A soil cleanup levels. For dioxin/furans, which do not have established Method A cleanup levels, the soil data were compared to MTCA Method B and Method C soil cleanup levels for direct contact.

MTCA cleanup levels can vary with land use. The required soil cleanup levels are more stringent for unrestricted land uses (i.e., for residential or mixed-use development) in comparison to industrial land uses. The use of industrial cleanup levels requires the application of MTCA restrictive covenants. Cleanup levels listed in Table 2 include the following:

- **Cleanup levels for unrestricted land uses:** MTCA Method A cleanup levels for unrestricted land uses and/or MTCA Method B cleanup levels
- **Cleanup levels for industrial land uses:** MTCA Method A cleanup levels for industrial soil and/or MTCA Method C cleanup levels

Table 2 also includes natural background levels for certain heavy metals in soil as established by Ecology (Ecology 1994). Natural background levels have not been established for most other soil contaminants.

None of the contaminants tested exceeded cleanup levels in subsurface soils. However, results of soil testing identified several contaminants in surface soil that exceeded cleanup levels at multiple locations. These are listed below:

- **Arsenic in Surface Soil (1 of 3 locations):** Of the heavy metals, only arsenic exceeded soil cleanup levels. Arsenic exceeded cleanup levels at only one location. The MTCA Method A cleanup level is 20 mg/kg for both unrestricted and industrial land uses. The Method C direct-contact cleanup level is 88 mg/kg for industrial land uses. At boring 96, located in the southeast portion of the Property, surface soils contained arsenic at a concentration of 23 mg/kg, slightly exceeding the Method A cleanup levels but below the Method C industrial soil cleanup level. Arsenic concentrations in surface soils from the other two borings and in the subsurface soils from all three borings were below natural background levels (7 mg/kg).
- **Dioxin/Furans in Surface Soil (2 of 3 locations):** Dioxin furans exceeded applicable Method B direct contact cleanup levels applicable to unrestricted land use in surface soils from two of the three borings. The detected concentrations were well below cleanup levels in the third boring and in subsurface soils from all three borings. Measured concentrations of dioxin/furans in surface soils with the detected exceedances (measured on a toxicity equivalence [TEQ] basis) were 21 nanograms (ng) TEQ/kg in boring 97 and 36 ng TEQ/kg in boring 96. The Method B cleanup level for dioxin/furans is 13 ng TEQ/kg. These detected concentrations exceed the cleanup level for unrestricted land use but not the cleanup level for industrial land use (1,700 ng/kg). These two boring locations were located close to an area of Parcel 94 where dioxin/furans were also elevated in surface soils. The Parcel 94 contamination may have resulted from the past treatment and storage of finished lumber treated with sap stain preventative by the Wattles Company on Parcel 94, and the contamination on the Property may have resulted from storage of the same lumber on the Property for a period of time in the 1970s and 1980s by Wattles Company and/or Lindal Cedar Homes.
- **Oil-Range Hydrocarbons in Surface Soil (2 of 3 locations):** Petroleum exceedances were detected in surface soils at 2 of 3 locations. No exceedances were detected in any of the subsurface soils tested. The surface soil exceedances were exclusively for oil-range hydrocarbons. No exceedances were detected for gasoline or diesel range hydrocarbons at any location. The surface soil exceedances for oil-range hydrocarbons were detected at borings 92 and 96, with measured concentrations of 5,400 and 3,000 mg/kg, respectively, compared to a MTCA Method A cleanup level of 2,000 mg/kg. The detected oil contamination likely resulted from the drippage of oil from vehicles or heavy equipment historically stored on the Property.
- **Carcinogenic Polycyclic Aromatic Hydrocarbon (cPAH) Compounds in Surface Soil (2 of 3 locations):** cPAH compounds were elevated in two of the three surface soil samples tested but were well below cleanup levels in all subsurface soils tested. Measured concentrations of cPAH in surface soil (reported on a benzo(a)pyrene TEQ) ranged from 290 µg TEQ/kg (boring

97) to 330 µg TEQ/kg (boring 96). These compounds exceeded the MTCA Method A cleanup level for unrestricted land uses but did not exceed the MTCA Method A cleanup level for industrial land uses. Soil cPAH contamination may be associated with petroleum releases or may have resulted from the Hampton Lumber Company building fire in 1965. The specific cause of the cPAH contamination was not determined.

None of the other contaminants (other heavy metals, other SVOC compounds or PCBs) exceeded cleanup levels in any of the tested soil samples.

5 Summary

Results of Phase 2 soil and groundwater testing confirmed the following: 1) the presence of groundwater contamination in one localized area of the Property; and 2) the presence of contamination in surface soils throughout the Property.

- **Groundwater Contamination – Arsenic (1 of 3 locations):** Arsenic contamination was detected in groundwater contamination at 1 of 3 tested locations. The contamination was detected at one location along the upgradient edge of the Property. No contamination was detected at other locations in the current study, nor at nearby locations within the Parcel 94 property to the south (Anchor QEA 2023c). Results indicate that the contamination is extremely localized. The specific cause of the arsenic groundwater contamination at boring 96 was not determined.
- **Surface Soil Contamination – Arsenic, Dioxin/Furans, Oil Hydrocarbons, and cPAHs:** Each of the surface soils tested from the Property included cleanup level exceedances for at least two of these four contaminants (arsenic, dioxin/furans, oil hydrocarbons, and cPAH). The type and concentration of the contamination varied by location. No contamination was detected in any of the subsurface soils tested. Of the four contaminants present in surface soils, three of the contaminants (arsenic, dioxin/furans, and cPAH compounds) were detected at concentrations above cleanup levels for unrestricted land use but below cleanup levels for industrial land uses. Oil-range hydrocarbons exceeded MTCA Method A cleanup levels for residential and industrial soils. The development of site-specific cleanup levels using TPH fractionation analysis was not conducted. Refer to Section 4.3 for a discussion of potential sources for the detected surface soil contamination.

Based on the detection of groundwater contamination, the Property will need to be reported to Ecology as a contaminated site. Further work will be required to investigate and clean up the surface soils and groundwater at Property to comply with requirements of MTCA regulations. The type and the extent of cleanup will vary depending on future land uses. It is likely that a greater degree of cleanup will be required if the Property and/or vicinity are developed for non-industrial land uses.

6 References

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Tables

Table 1
Results of Groundwater Testing

			Location ID	P94-SO-92	P94-SO-96	P94-SO-97
			Sample ID	P94-GW-92-230725	P94-GW-96-230724	P94-GW-97-230725
			Sample Date	7/25/2023	7/24/2023	7/25/2023
			Depth			
			Sample Type	N	N	N
			Matrix	WG	WG	WG
			X	1161496.07	1161632.62	1161594.71
			Y	706198.15	706250.15	706330.51
			MTCA Method A			
Chemical	Method	GroundWat				
Conventional Parameters (mg/L)						
Total suspended solids	SM2540D			14	0.40 U	21
Metals (µg/L)						
Antimony	E1638			0.28	1.7	0.070 J
Arsenic	E1638	5		0.83	65	0.28
Beryllium	E1638			0.060 U	0.060 U	0.060 U
Cadmium	E1638	5		0.030 U	0.030 U	0.030 U
Chromium	E1638	50		0.22 J	0.50 U	0.24 J
Copper	E1638			0.50 U	0.50 U	0.50 U
Lead	E1638	15		0.060 U	0.079	0.21
Mercury	E1631E	2		0.00044 J	0.0018	0.00072
Nickel	E1638			0.99	0.52	0.50 U
Selenium	E1638			0.051 J	0.068 J	0.30 U
Silver	E1638			0.020 U	0.020 U	0.020 U
Thallium	E1638			0.0026 J	0.0029 J	0.010 U
Zinc	E1638			1.6	1.0 U	1.0 U
Metals, Dissolved (µg/L)						
Antimony	E1638			0.25	2.5	0.087 J
Arsenic	E1638	5		0.83	76	0.25
Beryllium	E1638			0.060 U	0.060 U	0.060 U
Cadmium	E1638	5		0.030 U	0.030 U	0.030 U
Chromium	E1638	50		0.22 J	0.50 U	0.21 J
Copper	E1638			0.50 U	0.50 U	0.50 U
Lead	E1638	15		0.060 U	0.031 J	0.028 J
Mercury	E1631E	2		0.00029 J	0.00096	0.00050 U
Nickel	E1638			0.93	0.8	0.50 U
Selenium	E1638			0.053 J	0.088 J	0.080 J
Silver	E1638			0.020 U	0.020 U	0.020 U
Thallium	E1638			0.010 U	0.010 U	0.0076 J
Zinc	E1638			1.6	1.0 U	2.2
Volatile Organics (µg/L)						
1,1,1,2-Tetrachloroethane	SW8260D			0.30 U	0.30 U	0.30 U
1,1,1-Trichloroethane	SW8260D	200		0.20 U	0.20 U	0.20 U
1,1,2,2-Tetrachloroethane	SW8260D			0.20 U	0.20 U	0.20 U
1,1,2-Trichloroethane	SW8260D			0.20 U	0.20 U	0.20 U
1,1-Dichloroethane	SW8260D			0.20 U	0.20 U	0.20 U
1,1-Dichloroethene	SW8260D			0.20 U	0.20 U	0.20 U
1,1-Dichloropropene	SW8260D			0.20 U	0.20 U	0.20 U
1,2,3-Trichlorobenzene	SW8260D			0.50 U	0.50 U	0.50 U
1,2,3-Trichloropropane	SW8260D			0.20 U	0.20 U	0.20 U
1,2,4-Trimethylbenzene	SW8260D			0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane	SW8011			0.010 U	--	0.0024 J
1,2-Dibromo-3-chloropropane	SW8260D			2.0 U	2.0 U	2.0 U
1,2-Dichloroethane	SW8260D	5		0.20 U	0.20 U	0.20 U
1,2-Dichloroethene, cis-	SW8260D			0.063 J	0.20 U	0.20 U
1,2-Dichloroethene, trans-	SW8260D			0.20 U	0.20 U	0.20 U
1,2-Dichloropropane	SW8260D			0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene (Mesitylene)	SW8260D			0.50 U	0.50 U	0.50 U
1,3-Dichloropropane	SW8260D			0.20 U	0.20 U	0.20 U
1,3-Dichloropropene, cis-	SW8260D			0.20 U	0.20 U	0.20 U
1,3-Dichloropropene, trans-	SW8260D			0.20 U	0.20 U	0.20 U
2,2-Dichloropropane	SW8260D			0.50 U	0.50 U	0.50 U
2-Chlorotoluene	SW8260D			0.50 U	0.50 U	0.50 U
4-Chlorotoluene	SW8260D			0.30 U	0.30 U	0.30 U
Benzene	SW8260D	5		0.20 U	0.20 U	0.20 U
Bromobenzene	SW8260D			0.20 U	0.20 U	0.20 U
Bromochloromethane	SW8260D			0.20 U	0.20 U	0.20 U
Bromodichloromethane	SW8260D			0.20 U	0.20 U	0.20 U
Bromoform (Tribromomethane)	SW8260D			0.50 U	0.50 U	0.50 U
Bromomethane (Methyl bromide)	SW8260D			0.50 U	0.50 U	0.50 U
Carbon tetrachloride (Tetrachloromethane)	SW8260D			0.20 U	0.20 U	0.20 U
Chlorobenzene	SW8260D			0.20 U	0.20 U	0.20 U
Chloroethane	SW8260D			0.50 U	0.50 U	0.50 U
Chloroform	SW8260D			0.20 U	0.20 U	0.20 U
Chloromethane	SW8260D			0.50 U	0.50 U	0.50 U
Cymene, p- (4-Isopropyltoluene)	SW8260D			0.50 U	0.50 U	0.50 U
Dibromochloromethane	SW8260D			0.20 U	0.20 U	0.20 U
Dibromomethane	SW8260D			0.20 U	0.20 U	0.20 U
Dichlorodifluoromethane	SW8260D			0.40 U	0.40 U	0.40 U
Dichloromethane (Methylene chloride)	SW8260D	5		5.0 U	5.0 U	5.0 U
Ethylbenzene	SW8260D	700		0.20 U	0.20 U	0.20 U
Ethylene dibromide (1,2-Dibromoethane)	SW8011	0.01		0.010 U	--	0.010 U
Ethylene dibromide (1,2-Dibromoethane)	SW8260D	0.01		0.10 U	0.10 U	0.10 U
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	SW8260D			0.50 U	0.50 U	0.50 U
Isopropylbenzene (Cumene)	SW8260D			1.0 U	1.0 U	1.0 U

Table 1
Results of Groundwater Testing

			Location ID Sample ID Sample Date Depth Sample Type Matrix X Y	P94-SO-92 P94-GW-92-230725 7/25/2023 N WG 1161496.07 706198.15	P94-SO-96 P94-GW-96-230724 7/24/2023 N WG 1161632.62 706250.15	P94-SO-97 P94-GW-97-230725 7/25/2023 N WG 1161594.71 706330.51
Chemical	Method	MTCA Method A GroundWat				
m,p-Xylene	SW8260D			0.50 U	0.19 J	0.50 U
Methyl tert-butyl ether (MTBE)	SW8260D	20		0.30 U	0.30 U	0.30 U
Naphthalene	SW8260D	160		1.0 U	1.0 U	1.0 U
n-Butylbenzene	SW8260D			1.0 U	1.0 U	1.0 U
n-Propylbenzene	SW8260D			0.30 U	0.30 U	0.30 U
o-Xylene	SW8260D			0.50 U	0.50 U	0.50 U
sec-Butylbenzene	SW8260D			1.0 U	1.0 U	1.0 U
Styrene	SW8260D			1.0 U	1.0 U	1.0 U
tert-Butylbenzene	SW8260D			0.50 U	0.50 U	0.50 U
Tetrachloroethene (PCE)	SW8260D	5		0.50 U	0.50 U	0.50 U
Toluene	SW8260D	1000		0.061 J	0.20 U	0.20 U
Total Xylene (U = 0 max limit)		1000		0.50 U	0.19 J	0.50 U
Trichloroethene (TCE)	SW8260D	5		0.20 U	0.20 U	0.20 U
Trichlorofluoromethane (Fluorotrichloromethane)	SW8260D			0.50 U	0.50 U	0.50 U
Vinyl chloride	SW8260D	0.2		0.043 J	0.10 U	0.10 U
Semivolatile Organics (µg/L)						
1,2,4-Trichlorobenzene	SW8260D			0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	SW8260D			0.30 U	0.30 U	0.30 U
1,3-Dichlorobenzene	SW8260D			0.30 U	0.30 U	0.30 U
1,4-Dichlorobenzene	SW8260D			0.30 U	0.30 U	0.30 U
Total Petroleum Hydrocarbons (mg/L)						
Gasoline range hydrocarbons	NWTPHGx	0.8		0.050 U	0.050 U	0.050 U
Diesel range organics (C10 - C24)	NWTPHDx	0.5		0.16	0.081 J	0.089 J
Diesel range organics (C10 - C24)	NWTPHDxSG	0.5		0.11 U	0.11 U	0.11 U
Motor oil range hydrocarbons (C24-C36)	NWTPHDx	0.5		0.25 J	0.20 J	0.21 J
Motor oil range hydrocarbons (C24-C36)	NWTPHDxSG	0.5		0.36 U	0.36 U	0.35 U
Sum of diesel and motor oil	NWTPHDx	0.5		0.41 J	0.28 J	0.30 J
Sum of diesel and motor oil	NWTPHDxSG	0.5		0.47 U	0.47 U	0.46 U

Notes:

Detected concentration is greater than MTCA Method A groundwater cleanup level

Bold: Detected result

Calculated values have been rounded to laboratory-reported significant digits

Analysis for diesel and motor oil hydrocarbons was performed both with and without silica gel cleanup to evaluate the significance of potential polar organic hydrocarbons to measured groundwater concentrations.

µg/L: microgram per liter

J: Estimated value

mg/L: milligram per liter

MTCA: Model Toxics Control Act

U: Compound analyzed for, but not detected above detection limit

Table 2
Results of Soil Testing

				Location ID Sample ID Sample Date Depth Sample Type Matrix Easting Northing Natural Background Concentrations	P94-SO-92 P94-SO-92-0-1-230725 7/25/2023 0–1 ft N SO 1161496.07 706198.15	P94-SO-92 P94-SO-92-10-12-230725 7/25/2023 10–12 ft N SO 1161496.07 706198.15	P94-SO-96 P94-SO-96-0-2-230724 7/24/2023 0–2 ft N SO 1161632.62 706250.15	P94-SO-96 P94-SO-96-10-12-230724 7/24/2023 10–12 ft N SO 1161632.62 706250.15	P94-SO-97 P94-SO-97-0-2-230724 7/24/2023 0–2 ft N SO 1161594.71 706330.51	P94-SO-97 P94-SO-97-10-12-230724 7/24/2023 10–12 ft N SO 1161594.71 706330.51
Chemical	Method	MTCA Cleanup Levels for Unrestricted Land Use	MTCA Cleanup Levels for Industrial Land Use							
Metals (mg/kg)										
Antimony	SW6010D				1.4 J	0.84 J	3	1.0 J	1.8 J	0.85 J
Arsenic	SW6010D	20	20 / 88 ³	7.0	3.8	2.4 J	23	2.2 J	5.4	2.0 J
Beryllium	SW6010D			0.6	0.061 J	0.83 U	0.24 J	0.12 J	0.26 J	0.13 J
Cadmium	SW6010D	2	2	1.0	0.41 J	0.18 J	0.63 J	0.23 J	0.47 J	0.27 J
Chromium	SW6010D	2000	2000	42	28	19	30	18	31	17
Copper	SW6010D			36	23	20	39	12	32	12
Lead	SW6010D	250	1000	24	11	3.2	59	3.9	61	6.9
Mercury	SW7471A	2	2	0.07	0.026	0.017 J	0.048	0.023 U	0.14	0.013 J
Nickel	SW6010D			48	26	12	24	9.5	29	9.7
Selenium	SW6010D				3.8 U	4.1 U	3.5 U	4.0 U	3.5 U	4.8 U
Silver	SW6010D				1.9 U	2.1 U	1.7 U	2.0 U	1.7 U	2.4 U
Zinc	SW6010D			85	49	35	110	29	66	36
Metals (SW1311) (µg/L)										
Lead	SW6010D				--	--	--	--	--	--
Volatile Organics (µg/kg)										
1,1,1,2-Tetrachloroethane	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
1,1,1-Trichloroethane	SW8260C	2000	2000		0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
1,1,2,2-Tetrachloroethane	SW8260C				0.97 U	1.1 U	1.1 U	0.91 U	0.86 U	1.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	SW8260C				--	--	--	--	--	--
1,1,2-Trichloroethane	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
1,1-Dichloroethane	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
1,1-Dichloroethene	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
1,1-Dichloropropene	SW8260C				0.97 U	1.1 U	1.1 U	0.91 U	0.86 U	1.1 U
1,2,3-Trichlorobenzene	SW8260C				0.97 U	1.1 U	1.1 U	0.91 U	0.86 U	1.1 U
1,2,3-Trichloropropane	SW8260C				0.97 U	1.1 U	1.1 U	0.91 U	0.86 U	1.1 U
1,2,4-Trichlorobenzene	SW8260C				0.97 U	1.1 U	1.1 U	0.91 U	0.86 U	1.1 U
1,2,4-Trimethylbenzene	SW8260C				0.97 U	1.1 U	1.1 U	0.91 U	0.86 U	1.1 U
1,2-Dibromo-3-chloropropane	SW8260C				4.8 U	5.5 U	5.3 U	4.6 U	4.3 U	5.3 U
1,2-Dichlorobenzene	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
1,2-Dichloroethane	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
1,2-Dichloroethene, cis-	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
1,2-Dichloroethene, trans-	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
1,2-Dichloropropane	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
1,3,5-Trimethylbenzene (Mesitylene)	SW8260C				0.97 U	1.1 U	1.1 U	0.91 U	0.86 U	1.1 U
1,3-Dichlorobenzene	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
1,3-Dichloropropane	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
1,3-Dichloropropene, cis-	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
1,3-Dichloropropene, trans-	SW8260C				0.97 U	1.1 U	1.1 U	0.91 U	0.86 U	1.1 U

Table 2
Results of Soil Testing

				Location ID Sample ID Sample Date Depth Sample Type Matrix Easting Northing Natural Background Concentrations	P94-SO-92 P94-SO-92-0-1-230725 7/25/2023 0–1 ft N SO 1161496.07 706198.15	P94-SO-92 P94-SO-92-10-12-230725 7/25/2023 10–12 ft N SO 1161496.07 706198.15	P94-SO-96 P94-SO-96-0-2-230724 7/24/2023 0–2 ft N SO 1161632.62 706250.15	P94-SO-96 P94-SO-96-10-12-230724 7/24/2023 10–12 ft N SO 1161632.62 706250.15	P94-SO-97 P94-SO-97-0-2-230724 7/24/2023 0–2 ft N SO 1161594.71 706330.51	P94-SO-97 P94-SO-97-10-12-230724 7/24/2023 10–12 ft N SO 1161594.71 706330.51
Chemical	Method	MTCA Cleanup Levels for Unrestricted Land Use	MTCA Cleanup Levels for Industrial Land Use							
1,4-Dichlorobenzene	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
2,2-Dichloropropane	SW8260C				2.4 U	2.7 U	2.6 U	2.3 U	2.1 U	2.6 U
2-Chlorotoluene	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
2-Hexanone (Methyl butyl ketone)	SW8260C				--	--	--	--	--	--
4-Chlorotoluene	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	SW8260C				--	--	--	--	--	--
Acetone	SW8260C				--	--	--	--	--	--
Benzene	SW8260C	30	30		0.48 U	0.55 U	0.53 U	0.12 J	0.11 J	0.53 U
Bromobenzene	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
Bromochloromethane	SW8260C				0.97 U	1.1 U	1.1 U	0.91 U	0.86 U	1.1 U
Bromodichloromethane	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
Bromoform (Tribromomethane)	SW8260C				2.4 U	2.7 U	2.6 U	2.3 U	2.1 U	2.6 U
Bromomethane (Methyl bromide)	SW8260C				9.7 U	11 U	11 U	9.1 U	8.6 U	11 U
Carbon disulfide	SW8260C				--	--	--	--	--	--
Carbon tetrachloride (Tetrachloromethane)	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
Chlorobenzene	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
Chloroethane	SW8260C				0.97 U	1.1 U	1.1 U	0.91 U	0.86 U	1.1 U
Chloroform	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
Chloromethane	SW8260C				9.7 U	11 U	11 U	9.1 U	8.6 U	11 U
Cymene, p- (4-Isopropyltoluene)	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
Dibromochloromethane	SW8260C				0.97 U	1.1 U	1.1 U	0.91 U	0.86 U	1.1 U
Dibromomethane	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
Dichlorodifluoromethane	SW8260C				0.97 U	1.1 U	1.1 U	0.91 U	0.86 U	1.1 U
Dichloromethane (Methylene chloride)	SW8260C	20	20		4.8 U	5.5 U	5.3 U	4.6 U	4.3 U	5.3 U
Diisopropylether (Isopropyl Ether)	SW8260C				--	--	--	--	--	--
Ethanol	SW8260C				--	--	--	--	--	--
Ethyl tert-butyl ether (ETBE)	SW8260C				--	--	--	--	--	--
Ethylbenzene	SW8260C	6000	6000		0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
Ethylene dibromide (1,2-Dibromoethane)	SW8260C	5	5		0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	SW8260C				2.4 U	2.7 U	2.6 U	2.3 U	2.1 U	2.6 U
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	SW8270E				4800 U	61 U	500 U	55 U	51 U	60 U
Isopropylbenzene (Cumene)	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
m,p-Xylene	SW8260C				0.97 U	1.1 U	1.1 U	0.91 U	0.86 U	1.1 U
Methyl ethyl ketone (2-Butanone)	SW8260C				--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	SW8260C	100	100		0.97 U	1.1 U	1.1 U	0.91 U	0.86 U	1.1 U
Naphthalene	SW8260C	5000	5000		4.8 U	5.5 U	5.3 U	4.6 U	4.3 U	5.3 U
n-Butylbenzene	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
n-Propylbenzene	SW8260C				0.97 U	1.1 U	1.1 U	0.91 U	0.86 U	1.1 U
o-Xylene	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U

Table 2
Results of Soil Testing

				Location ID	P94-SO-92	P94-SO-92	P94-SO-96	P94-SO-96	P94-SO-97	P94-SO-97
				Sample ID	P94-SO-92-0-1-230725	P94-SO-92-10-12-230725	P94-SO-96-0-2-230724	P94-SO-96-10-12-230724	P94-SO-97-0-2-230724	P94-SO-97-10-12-230724
				Sample Date	7/25/2023	7/25/2023	7/24/2023	7/24/2023	7/24/2023	7/24/2023
				Depth	0–1 ft	10–12 ft	0–2 ft	10–12 ft	0–2 ft	10–12 ft
				Sample Type	N	N	N	N	N	N
				Matrix	SO	SO	SO	SO	SO	SO
				Easting	1161496.07	1161496.07	1161632.62	1161632.62	1161594.71	1161594.71
				Northing	706198.15	706198.15	706250.15	706250.15	706330.51	706330.51
				Natural Background Concentrations						
Chemical	Method	MTCA Cleanup Levels for Unrestricted Land Use	MTCA Cleanup Levels for Industrial Land Use							
sec-Butylbenzene	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
Styrene	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
tert-Butyl alcohol (2-Methyl-2-propanol)	SW8260C				--	--	--	--	--	--
tert-Butylbenzene	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
Tetrachloroethene (PCE)	SW8260C	50	50		0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
Toluene	SW8260C	7000	7000		0.48 U	0.55 U	0.53 U	0.46 U	0.15 J	0.53 U
Total Xylene (U = 0 max limit)		9000	9000		0.97 U	1.1 U	1.1 U	0.91 U	0.86 U	1.1 U
Trichloroethene (TCE)	SW8260C	30	30		0.97 U	1.1 U	1.1 U	0.91 U	0.86 U	1.1 U
Trichlorofluoromethane (Fluorotrichloromethane)	SW8260C				4.8 U	5.5 U	5.3 U	4.6 U	4.3 U	5.3 U
Vinyl acetate	SW8260C				--	--	--	--	--	--
Vinyl chloride	SW8260C				0.48 U	0.55 U	0.53 U	0.46 U	0.43 U	0.53 U
Semivolatile Organics (µg/kg)										
1,2,4-Trichlorobenzene	SW8270E				4800 U	61 U	500 U	55 U	51 U	60 U
1,2-Dichlorobenzene	SW8270E				4800 U	61 U	500 U	55 U	51 U	60 U
1,3-Dichlorobenzene	SW8270E				4800 U	61 U	500 U	55 U	51 U	60 U
1,4-Dichlorobenzene	SW8270E				4800 U	61 U	500 U	55 U	33 J	60 U
2,2'-Oxybis (1-chloropropane)	SW8270E				19000 U	240 U	2000 U	220 U	200 U	240 U
2,4,5-Trichlorophenol	SW8270E				19000 U	240 U	2000 U	220 U	200 U	240 U
2,4,6-Trichlorophenol	SW8270E				14000 U	180 U	1500 U	160 U	150 U	180 U
2,4-Dichlorophenol	SW8270E				19000 U	240 U	2000 U	220 U	200 U	240 U
2,4-Dimethylphenol	SW8270E				19000 U	240 U	2000 U	220 U	200 U	240 U
2,4-Dinitrophenol	SW8270E				190000 U	2400 U	20000 U	2200 U	2000 U	2400 U
2,4-Dinitrotoluene	SW8270E				19000 U	240 U	2000 U	220 U	200 U	240 U
2,6-Dinitrotoluene	SW8270E				14000 U	180 U	1500 U	160 U	150 U	180 U
2-Chloronaphthalene	SW8270E				2400 U	30 U	250 U	27 U	25 U	30 U
2-Chlorophenol	SW8270E				19000 U	240 U	2000 U	220 U	200 U	240 U
2-Methylphenol (o-Cresol)	SW8270E				14000 U	180 U	1500 U	160 U	150 U	180 U
2-Nitroaniline	SW8270E				9600 U	120 U	1000 U	110 U	100 U	120 U
2-Nitrophenol	SW8270E				19000 U	240 U	2000 U	220 U	200 U	240 U
3,3'-Dichlorobenzidine	SW8270E				38000 U	490 U	4000 U	440 U	410 U	480 U
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	SW8270E				19000 U	240 U	2000 U	220 U	200 U	240 U
3-Nitroaniline	SW8270E				29000 U	360 U	3000 U	330 U	300 U	360 U
4-Bromophenyl-phenyl ether	SW8270E				19000 U	240 U	2000 U	220 U	200 U	240 U
4-Chloro-3-methylphenol	SW8270E				14000 U	180 U	1500 U	160 U	150 U	180 U
4-Chloroaniline	SW8270E				140000 U	1800 U	15000 U	1600 U	1500 U	1800 U
4-Chlorophenyl phenyl ether	SW8270E				19000 U	240 U	2000 U	220 U	200 U	240 U
4-Nitroaniline	SW8270E				14000 U	180 U	1500 U	160 U	150 U	180 U
4-Nitrophenol	SW8270E				190000 U	2400 U	20000 U	2200 U	2000 U	2400 U
Benzoic acid	SW8270E				380000 U	4900 U	40000 U	4400 U	4100 U	4800 U

Table 2
Results of Soil Testing

				Location ID	P94-SO-92	P94-SO-92	P94-SO-96	P94-SO-96	P94-SO-97	P94-SO-97
				Sample ID	P94-SO-92-0-1-230725	P94-SO-92-10-12-230725	P94-SO-96-0-2-230724	P94-SO-96-10-12-230724	P94-SO-97-0-2-230724	P94-SO-97-10-12-230724
				Sample Date	7/25/2023	7/25/2023	7/24/2023	7/24/2023	7/24/2023	7/24/2023
				Depth	0–1 ft	10–12 ft	0–2 ft	10–12 ft	0–2 ft	10–12 ft
				Sample Type	N	N	N	N	N	N
				Matrix	SO	SO	SO	SO	SO	SO
				Easting	1161496.07	1161496.07	1161632.62	1161632.62	1161594.71	1161594.71
				Northing	706198.15	706198.15	706250.15	706250.15	706330.51	706330.51
				Natural Background Concentrations						
Chemical	Method	MTCA Cleanup Levels for Unrestricted Land Use	MTCA Cleanup Levels for Industrial Land Use							
Benzyl alcohol	SW8270E				96000 U	1200 U	10000 U	330 J	330 J	290 J
Bis(2-chloroethoxy)methane	SW8270E				19000 U	240 U	2000 U	220 U	200 U	240 U
Bis(2-chloroethyl)ether	SW8270E				9600 U	120 U	1000 U	110 U	100 U	120 U
Bis(2-ethylhexyl)phthalate	SW8270E				58000 U	730 U	6000 U	660 U	610 U	730 U
Butylbenzyl phthalate	SW8270E				19000 U	240 U	2000 U	220 U	200 U	240 U
Diethyl phthalate	SW8270E				38000 U	490 U	4000 U	440 U	410 U	480 U
Dimethyl phthalate	SW8270E				14000 U	180 U	1500 U	160 U	150 U	180 U
Di-n-butyl phthalate	SW8270E				48000 U	610 U	5000 U	550 U	510 U	600 U
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	SW8270E				96000 U	1200 U	10000 U	1100 U	1000 U	1200 U
Di-n-octyl phthalate	SW8270E				14000 U	180 U	1500 U	160 U	150 U	180 U
Hexachlorobenzene	SW8270E				4800 U	61 U	500 U	55 U	51 U	60 U
Hexachlorocyclopentadiene	SW8270E				9600 U	120 U	1000 U	110 U	100 U	120 U
Hexachloroethane	SW8270E				14000 U	180 U	1500 U	160 U	150 U	180 U
Isophorone	SW8270E				14000 U	180 U	1500 U	160 U	150 U	180 U
Nitrobenzene	SW8270E				19000 U	240 U	2000 U	220 U	200 U	240 U
n-Nitrosodi-n-propylamine	SW8270E				19000 U	240 U	2000 U	220 U	200 U	240 U
n-Nitrosodiphenylamine	SW8270E				5800 U	73 U	600 U	66 U	61 U	73 U
Pentachlorophenol	SW8270E				38000 U	490 U	4000 U	440 U	410 U	480 U
Phenol	SW8270E				14000 U	180 U	1500 U	160 U	150 U	180 U
tert-Amyl methyl ether (TAME)	SW8260C				--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (µg/kg)										
1-Methylnaphthalene	SW8270E				2900 U	17 J	300 U	33 U	13 J	36 U
1-Methylnaphthalene	SW8270ESIM				--	--	--	--	--	--
2-Methylnaphthalene	SW8270E				4800 U	27 J	500 U	55 U	26 J	60 U
2-Methylnaphthalene	SW8270ESIM				--	--	--	--	--	--
Acenaphthene	SW8270E				3800 U	8.7 J	400 U	44 U	41 U	6.3 J
Acenaphthene	SW8270ESIM				--	--	--	--	--	--
Acenaphthylene	SW8270E				2400 U	30 U	250 U	27 U	16 J	30 U
Acenaphthylene	SW8270ESIM				--	--	--	--	--	--
Anthracene	SW8270E				5800 U	73 U	600 U	66 U	34 J	73 U
Anthracene	SW8270ESIM				--	--	--	--	--	--
Benzo(a)anthracene *	SW8270E				3800 U	49 U	400 U	44 U	110	48 U
Benzo(a)anthracene *	SW8270ESIM				--	--	--	--	--	--
Benzo(a)pyrene *	SW8270E	100	2000		5800 U	44 J	140 J	15 J	110	73 U
Benzo(a)pyrene *	SW8270ESIM	100	2000		--	--	--	--	--	--
Benzo(b)fluoranthene *	SW8270E				3800 U	49 U	230 J	44 U	140	48 U
Benzo(b)fluoranthene *	SW8270ESIM				--	--	--	--	--	--
Benzo(g,h,i)perylene	SW8270E				5800 U	73 U	380 J	28 J	55 J	73 U
Benzo(g,h,i)perylene	SW8270ESIM				--	--	--	--	--	--

Table 2
Results of Soil Testing

				Location ID	P94-SO-92	P94-SO-92	P94-SO-96	P94-SO-96	P94-SO-97	P94-SO-97
				Sample ID	P94-SO-92-0-1-230725	P94-SO-92-10-12-230725	P94-SO-96-0-2-230724	P94-SO-96-10-12-230724	P94-SO-97-0-2-230724	P94-SO-97-10-12-230724
				Sample Date	7/25/2023	7/25/2023	7/24/2023	7/24/2023	7/24/2023	7/24/2023
				Depth	0–1 ft	10–12 ft	0–2 ft	10–12 ft	0–2 ft	10–12 ft
				Sample Type	N	N	N	N	N	N
				Matrix	SO	SO	SO	SO	SO	SO
				Easting	1161496.07	1161496.07	1161632.62	1161632.62	1161594.71	1161594.71
				Northing	706198.15	706198.15	706250.15	706250.15	706330.51	706330.51
				Natural Background Concentrations						
Chemical	Method	MTCA Cleanup Levels for Unrestricted Land Use	MTCA Cleanup Levels for Industrial Land Use							
Benzo(k)fluoranthene	SW8270E				5800 U	73 U	600 U	66 U	57 J	73 U
Benzo(k)fluoranthene	SW8270ESIM				--	--	--	--	--	--
Carbazole	SW8270E				14000 U	180 U	1500 U	160 U	150 U	180 U
Chrysene *	SW8270E				5800 U	73 U	220 J	66 U	130	73 U
Chrysene *	SW8270ESIM				--	--	--	--	--	--
Dibenzo(a,h)anthracene *	SW8270E				4800 U	61 U	500 U	55 U	51 U	60 U
Dibenzo(a,h)anthracene *	SW8270ESIM				--	--	--	--	--	--
Dibenzofuran	SW8270E				14000 U	8.9 J	1500 U	160 U	150 U	180 U
Fluoranthene	SW8270E				3800 U	40 J	210 J	15 J	190	48 U
Fluoranthene	SW8270ESIM				--	--	--	--	--	--
Fluorene	SW8270E				2400 U	10 J	250 U	27 U	25 U	30 U
Fluorene	SW8270ESIM				--	--	--	--	--	--
Indeno(1,2,3-c,d)pyrene *	SW8270E				3800 U	49 U	400 U	44 U	53	48 U
Indeno(1,2,3-c,d)pyrene *	SW8270ESIM				--	--	--	--	--	--
Naphthalene	SW8270E	5000	5000		2400 U	13 J	250 U	24 J	35	30 U
Naphthalene	SW8270ESIM	5000	5000		--	--	--	--	--	--
Phenanthrene	SW8270E				5800 U	42 J	130 J	15 J	110	73 U
Phenanthrene	SW8270ESIM				--	--	--	--	--	--
Pyrene	SW8270E				5800 U	35 J	250 J	22 J	230	73 U
Pyrene	SW8270ESIM				--	--	--	--	--	--
Total cPAH* TEQ (CAEPA 2005) (U = 0 max limit)		100	2000		5800 U	88 J	330 J	30 J	290 J	73 U
Dioxin Furans (ng/kg)										
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	SW8290A				4.4 J	0.30 U	55	1.1 J	120	0.53 J
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	SW8290A				80	4.0 J	1000	14	2200	6.6 J
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	SW8290A				2.5 J	0.24 J	41	0.72 J	70	0.39 J
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	SW8290A				11	0.58 J	170	2.6 J	240	1.1 J
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	SW8290A				0.16 U	0.055 U	1.8 J	0.25 U	2.6 J	0.049 U
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	SW8290A				0.38 J	0.046 U	4.6 J	0.20 J	4.2 J	0.027 U
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	SW8290A				0.45 J	0.28 J	6.5	0.32 J	2.5 J	0.20 J
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	SW8290A				0.23 J	0.052 U	4.5 J	0.14 J	2.6 J	0.029 U
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	SW8290A				0.97 J	0.085 U	17	0.35 J	21	0.17 J
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	SW8290A				0.068 U	0.049 U	0.43 J	0.15 J	0.26 J	0.026 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	SW8290A				0.70 J	0.074 U	12	0.33 J	7.2	0.041 U
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	SW8290A				0.19 J	0.035 U	4.4 J	0.17 J	1.4 J	0.038 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	SW8290A				0.30 J	0.068 U	6.4	0.22 J	1.4 J	0.057 U
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	SW8290A				0.26 J	0.047 U	3.5 J	0.14 J	2.3 J	0.026 U
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	SW8290A				0.26 J	0.034 U	5.5	0.18 J	1.7 J	0.036 U
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	SW8290A				0.71 J	0.18 J	7.7	0.44 J	2.5	0.16 J
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	SW8290A				0.048 U	0.042 U	1.8	0.16 J	0.52 J	0.041 U

Table 2
Results of Soil Testing

				Location ID	P94-SO-92	P94-SO-92	P94-SO-96	P94-SO-96	P94-SO-97	P94-SO-97
				Sample ID	P94-SO-92-0-1-230725	P94-SO-92-10-12-230725	P94-SO-96-0-2-230724	P94-SO-96-10-12-230724	P94-SO-97-0-2-230724	P94-SO-97-10-12-230724
				Sample Date	7/25/2023	7/25/2023	7/24/2023	7/24/2023	7/24/2023	7/24/2023
				Depth	0–1 ft	10–12 ft	0–2 ft	10–12 ft	0–2 ft	10–12 ft
				Sample Type	N	N	N	N	N	N
				Matrix	SO	SO	SO	SO	SO	SO
				Easting	1161496.07	1161496.07	1161632.62	1161632.62	1161594.71	1161594.71
				Northing	706198.15	706198.15	706250.15	706250.15	706330.51	706330.51
				Natural Background Concentrations						
Chemical	Method	MTCA Cleanup Levels for Unrestricted Land Use	MTCA Cleanup Levels for Industrial Land Use							
Total Dioxin/Furan TEQ (MTCA WAC Table 708-1) (U = 0)		13 ¹	1700 ¹		1.8 J	0.11 J	36 J	1.4 J	21 J	0.14 J
PCB Aroclors (µg/kg)										
Aroclor 1016	SW8082A				20 U	25 U	20 U	22 U	21 U	25 U
Aroclor 1221	SW8082A				20 U	25 U	20 U	22 U	21 U	25 U
Aroclor 1232	SW8082A				20 U	25 U	20 U	22 U	21 U	25 U
Aroclor 1242	SW8082A				20 U	25 U	20 U	22 U	21 U	25 U
Aroclor 1248	SW8082A				20 U	25 U	20 U	22 U	21 U	25 U
Aroclor 1254	SW8082A				20 U	25 U	20 U	22 U	21 U	25 U
Aroclor 1260	SW8082A				20 U	25 U	7.4 J	22 U	65	25 U
Total PCB Aroclors (U = 0 max limit)		1000	10000		20 U	25 U	15 J	22 U	130	25 U
Total Petroleum Hydrocarbons (mg/kg)										
Gasoline range hydrocarbons	NWTPHGx	30 / 100 ²	30 / 100 ²		2.0 J	3.2 U	3.1	0.74 J	2.1 U	3.1 U
Diesel range hydrocarbons (C10–C24)	NWTPHDx	2000	2000		430 J	17 J	390	23 J	57	62 U
Motor oil range hydrocarbons (C24–C36)	NWTPHDx	2000	2000		5400	47 J	3000	220	560	62 U
Sum of diesel and oil range hydrocarbons	NWTPHDx	2000	2000		5830	64 J	3390	243 J	617	62 U

Notes:

Detected concentration is greater than MTCA Method A or Method C soil cleanup level for industrial land use

Detected concentration is greater than MTCA Method A or Method B soil cleanup level for unrestricted land use

Bold: Detected result

Calculated values have been rounded to laboratory-reported significant digits

* Indicates a cPAH compound

1. D/F TEQ cleanup level for MTCA Method B and Method C direct contact cleanup levels

2. The MTCA Method A cleanup level for gasoline is 30 mg/kg if benzene is present and 100 mg/kg if benzene is not present

3. The MTCA Method A industrial soil cleanup level is 20 mg/kg. The MTCA Method C direct contact cleanup level for industrial soil is 88 mg/kg.

µg/kg: microgram per kilogram

µ/L: microgram per liter

cPAH: carcinogenic PAH compound

J: Estimated value

mg/kg: milligram per kilogram

MTCA: Model Toxics Control Act

ng/kg: nanogram per kilogram

PAH: Polynuclear aromatic hydrocarbons

TEQ: Toxicity equivalent concentration

U: Compound analyzed for, but not detected above detection limit

UJ: Compound analyzed for, but not detected above estimated detection limit

WAC: Washington Administrative Code

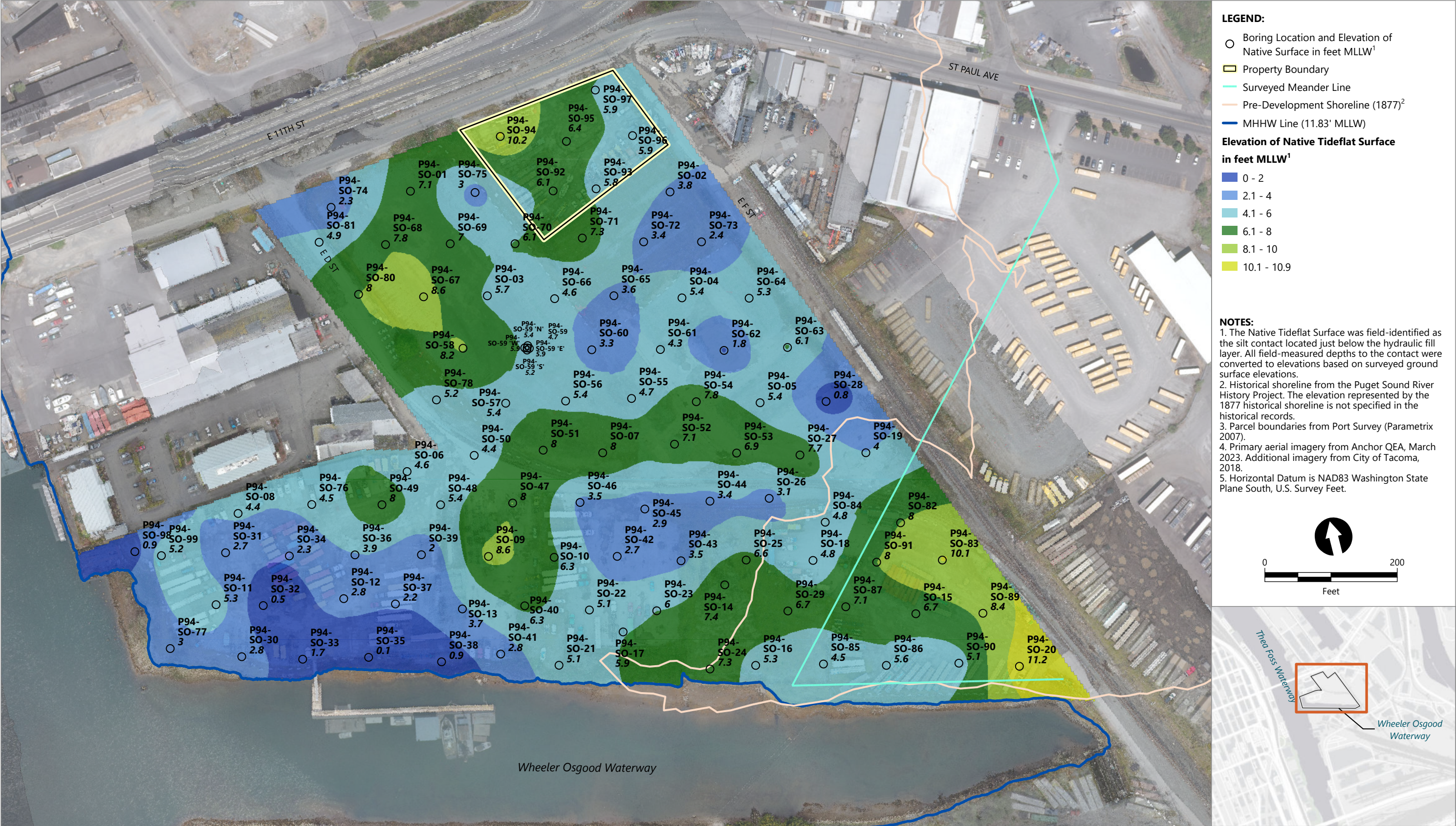
Figures



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Figure 1
Property, Vicinity, and Phase 2 Sampling Locations
Phase 2 Environmental Assessment Report for the Property at 426 East 11th Street
426 East 11th Street Due Diligence



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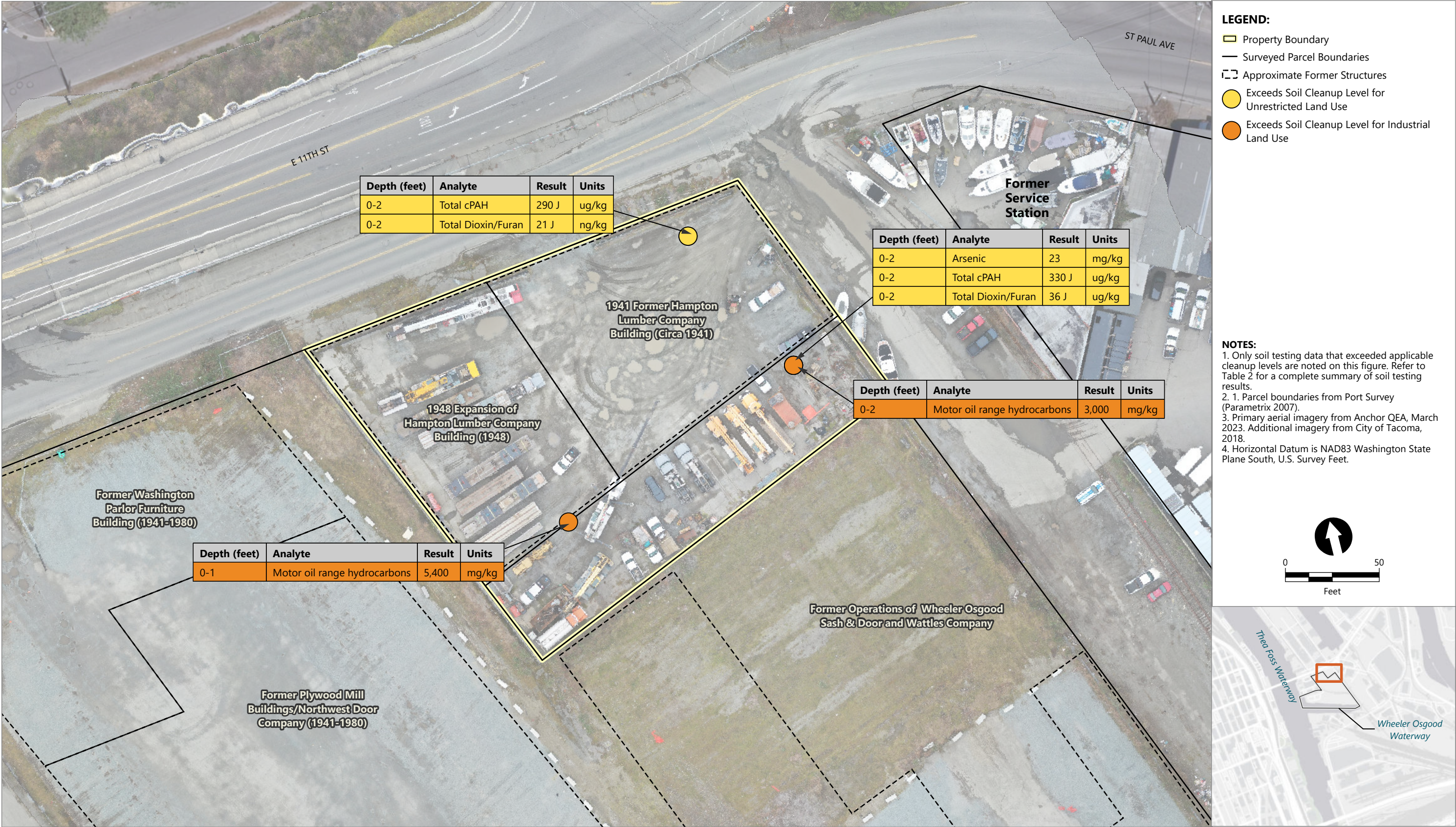
Figure 2
Pre-Development Tideflat Elevation Map
Phase 2 Environmental Assessment Report for the Property at 426 East 11th Street
426 East 11th Street Due Diligence



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Figure 3
Summary of Groundwater Testing Data
Phase 2 Environmental Assessment Report for the Property at 426 East 11th Street
426 East 11th Street Due Diligence



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Figure 4
Summary of Soil Testing Data

Appendix A

Historical Aerial Photographs



8950001100

8950001120

8950001110

8950001130

8950001071

8950001150

8950001220

8950001201

0320041025

0320041010

8950001061

0320041040

0320041032

8950001052

0320041014

0320045004

0320041048

8950001601

0320041028

0320045003

0320041052

0320041051

0320041053

0320041054

0320041017

8950001560

N

1931



N



1950



N

1973



8950001071

8950001201

8950001061

8950001100

8950001110

8950001120

8950001130

8950001150

8950001030

0320041040

8950001052

0320041014

0320041020

0320041048

8950001601

0320041028

0320041052

0320041051

0320041053

0320041054

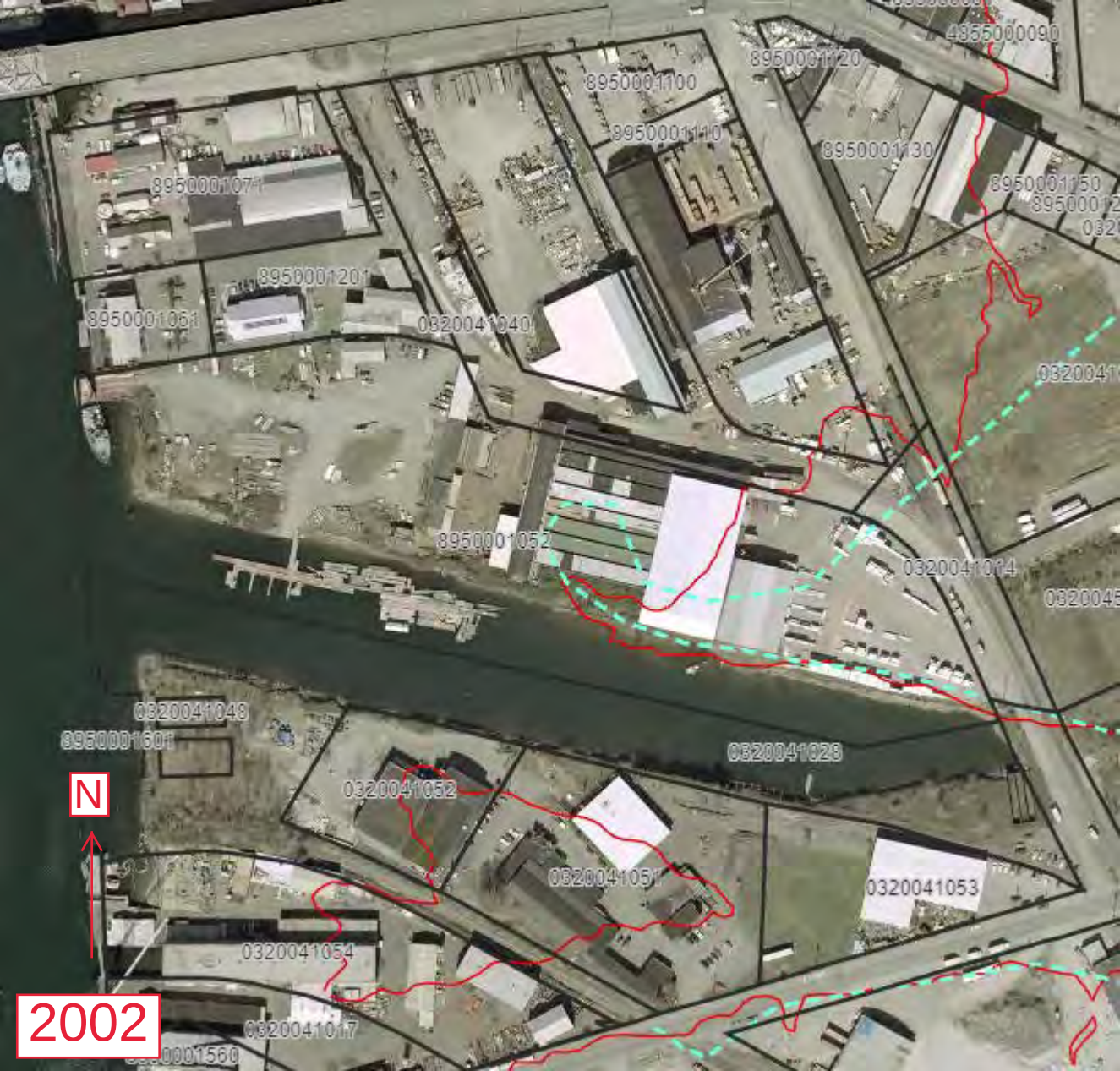
0320041017

001560

4855000090

N

1990



N

2002



Historical Aerial Photo Report | 2023

Order Number: 84334

Report Generated: 03/10/2023

Project Name: Wheeler Osgood

Project Number: 230092-03.01

Wheeler Osgood
1203 E D St
Tacoma, WA, 98421

Contact us at:
(866) 211-2028
envirositecorp.com

Envirosite's Historical Aerial Photo Report is designed to assist in evaluating a subject property resulting from past activities. EnviroSite's Historical Aerial Photo Report includes a search of available historical aerial photographs, dating back to the 1930s, or earliest available photographs.

ENVIROSITE SEARCHED SOURCES

SUBJECT PROPERTY:

Wheeler Osgood
1203 E D St
Tacoma, WA, 98421

YEAR:

1941
1957
1968
1971
1972
1974
1980
1990
1991
2006
2009
2011
2013
2015
2017
2019

SCALE:

1" = 500'
1" = 500'
1" = 500'
1" = 1,000'
1" = 1,000'
1" = 500'
1" = 1,000'
1" = 500'
1" = 1,000'
1" = 500'
1" = 500'
1" = 500'
1" = 500'
1" = 500'
1" = 500'
1" = 500'

SOURCE:

U.S.G.S
U.S.G.S
U.S.G.S
U.S.G.S
U.S.G.S
U.S.G.S
NHAP
DOQ
U.S.G.S
NAIP
NAIP
NAIP
NAIP
NAIP
NAIP
NAIP

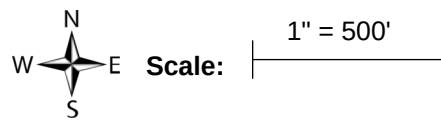
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FLIGHT YEAR:
1941

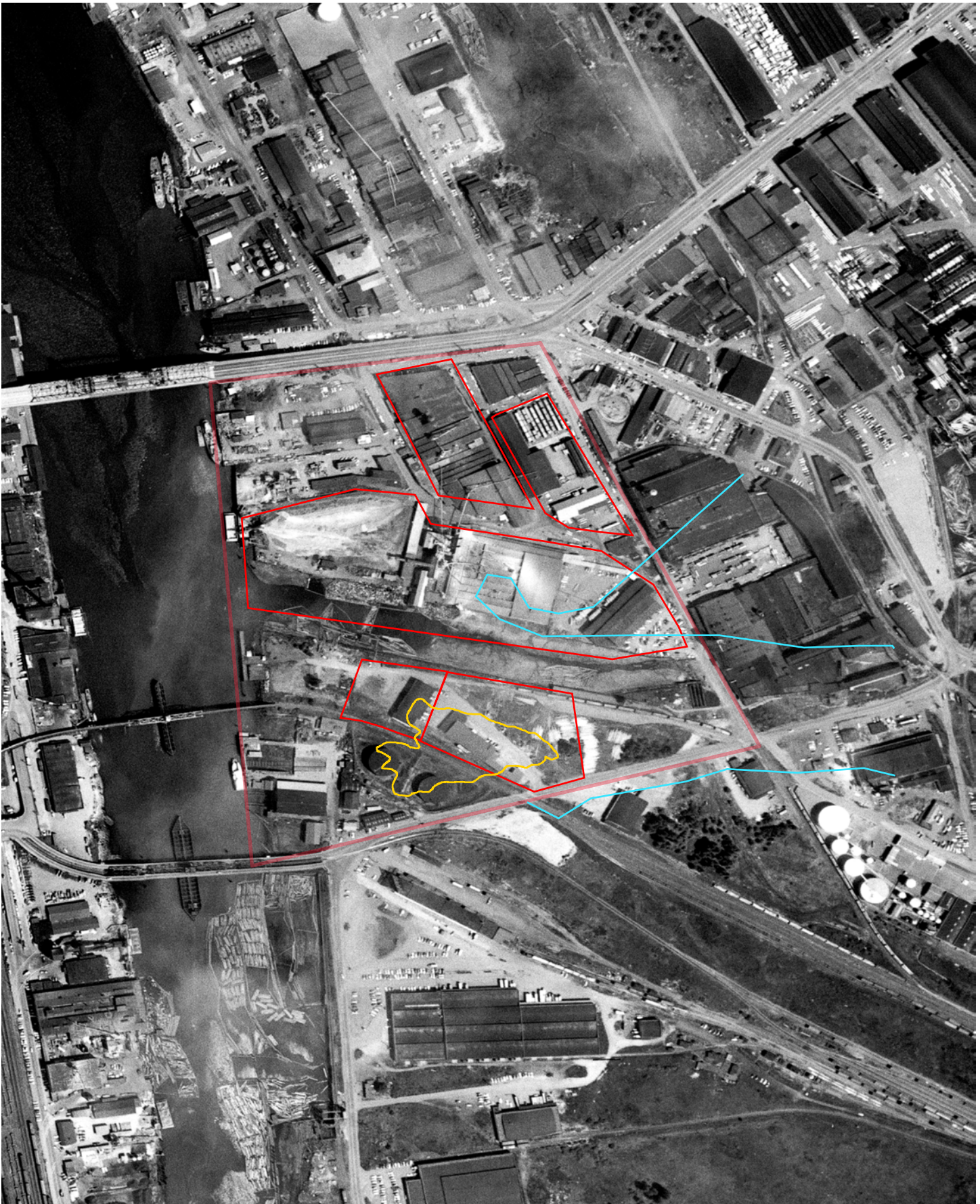


FLIGHT YEAR:
1957

Cloud Cover On Photo



Scale: 1" = 500'



FLIGHT YEAR:
1968

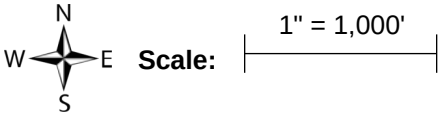
Cloud Cover On Photo



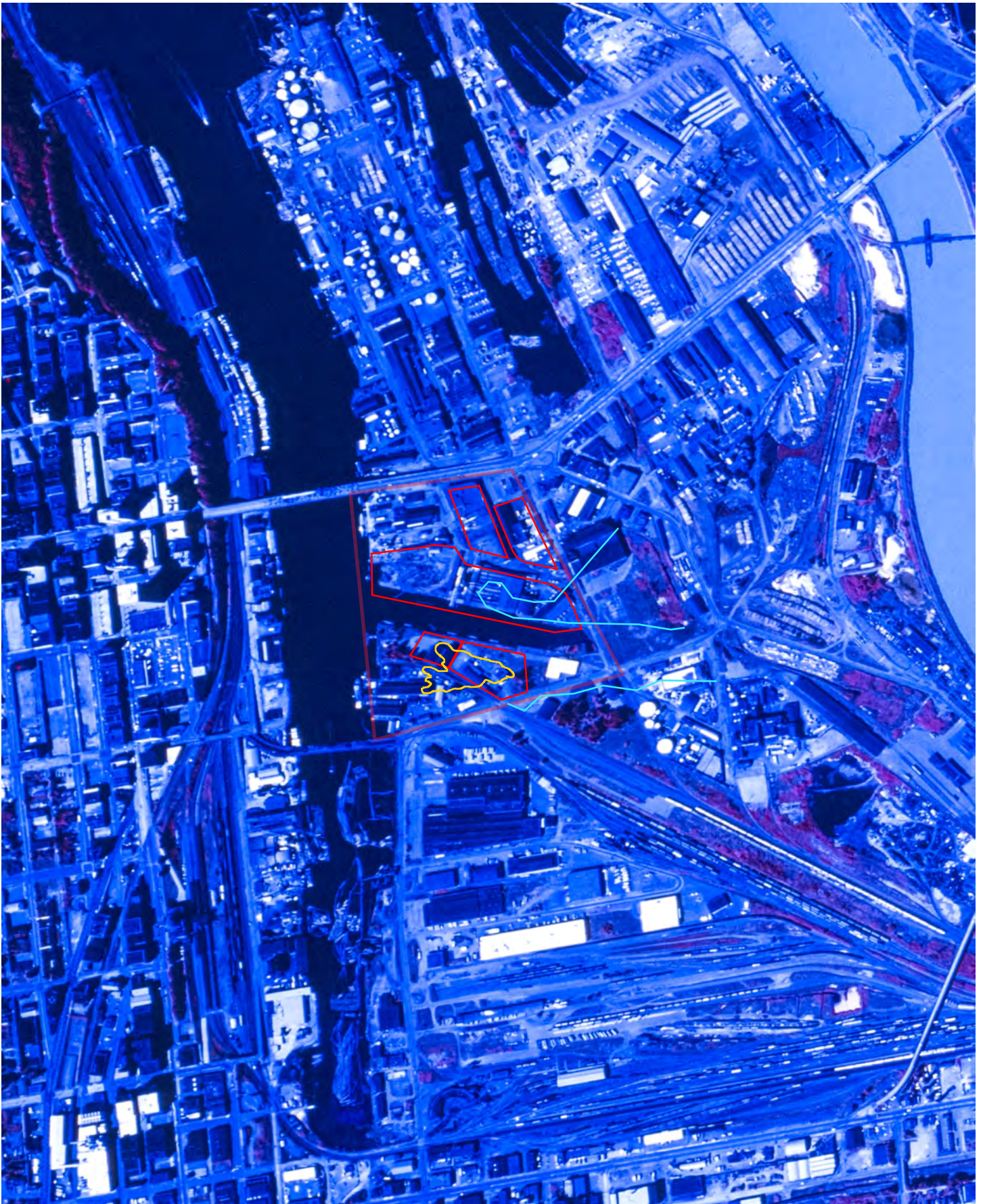
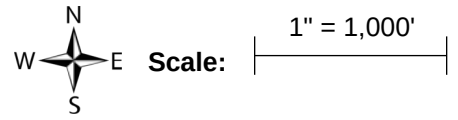
Scale: 1" = 500'



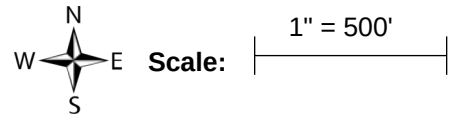
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1971



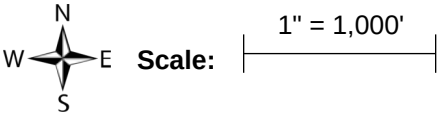
FLIGHT YEAR:
1972



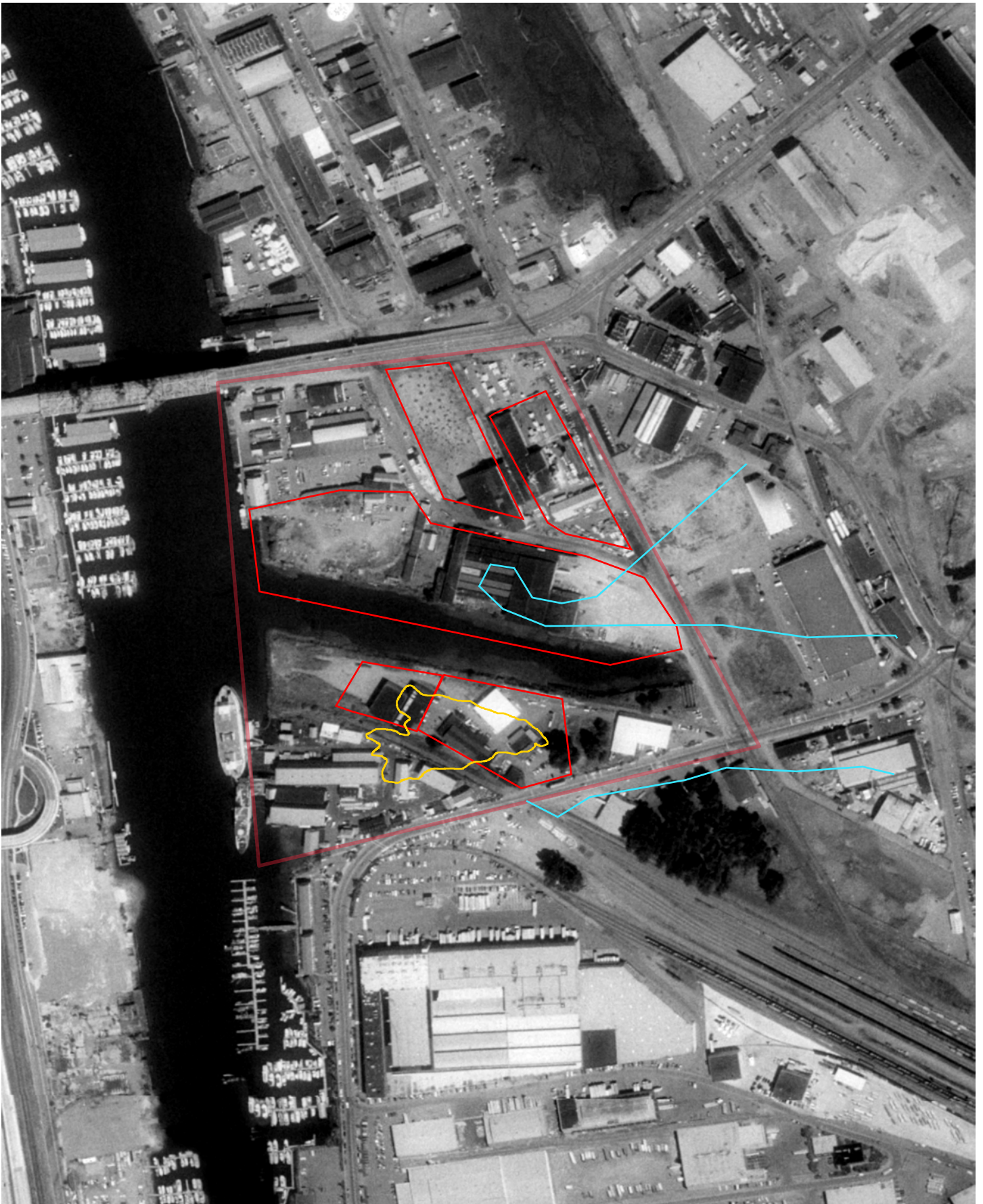
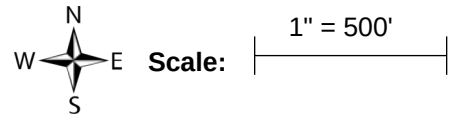
FLIGHT YEAR:
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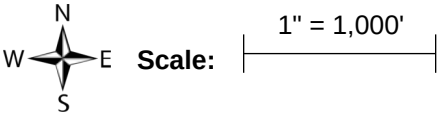
FLIGHT YEAR:
1980



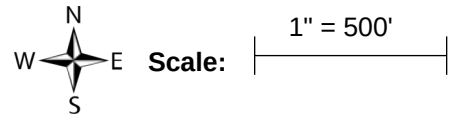
FLIGHT YEAR:
1990



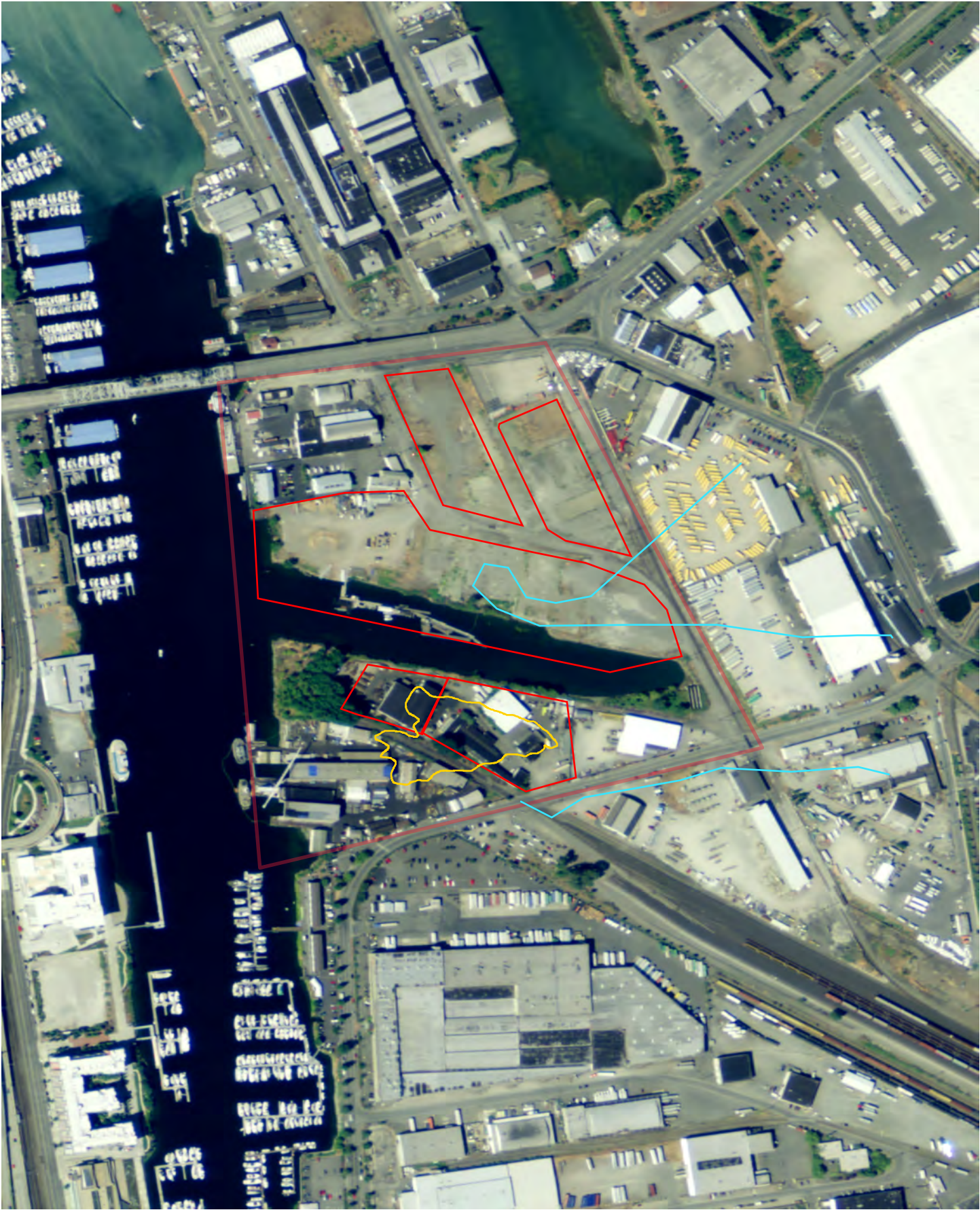
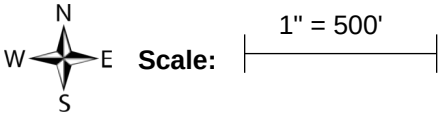
FLIGHT YEAR:
1991



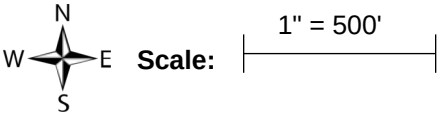
FLIGHT YEAR:
2006



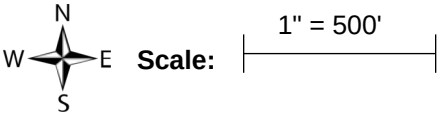
FLIGHT YEAR:
2009



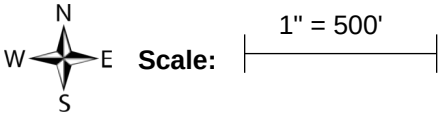
FLIGHT YEAR:
2011



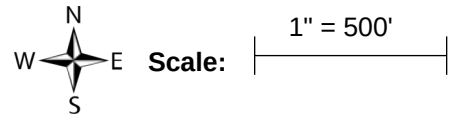
FLIGHT YEAR:
2013



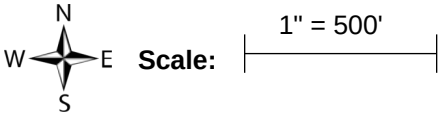
FLIGHT YEAR:
2015



FLIGHT YEAR:
2017



FLIGHT YEAR:
2019



Appendix B

Other Historical Photographs

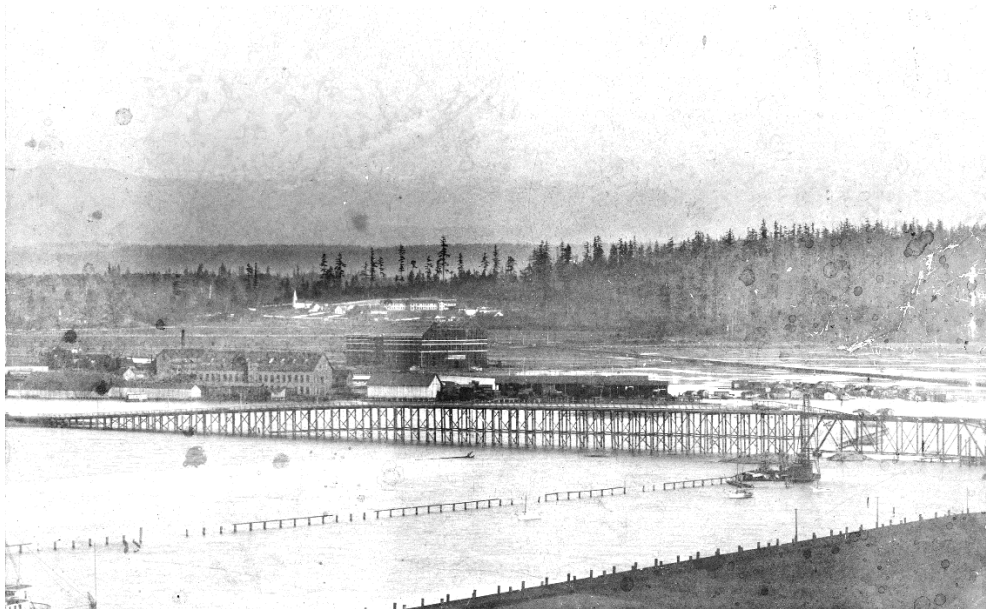
HISTORICAL PHOTOGRAPHS OF 426 EAST 11TH STREET AND VICINITY



Photograph 1 (1880): View of former mouth of Puyallup River from downtown Tacoma prior to waterway dredging and tideland filling. The island known as "the Boot" is visible in the rear center of the photo. The Property was located in the submerged tidelands just offshore of the Boot.



Photograph 2 (1894): View of the Wheeler Osgood Mill buildings originally constructed on the lower edge of "the Boot". The Property was located in the submerged tidelands just offshore of the Boot.



Photograph 3 (undated, circa 1900): High tide view from downtown Tacoma facing southeast toward “the Boot”. Buildings of the Wheeler Osgood Mill are visible on “the Boot” in the center of the photograph. The Property and the central and western portions of Parcel 94 have not yet been filled. Photograph from the Northwest Room at The Tacoma Public Library, image number “General Photograph Collection GM-001.”



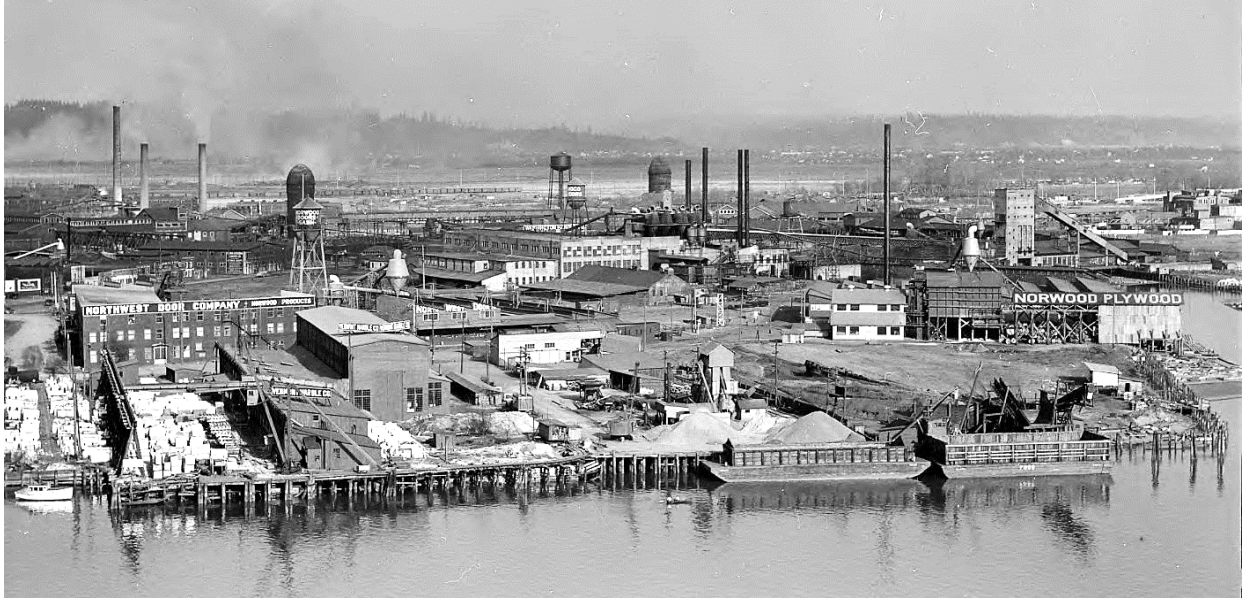
Photograph 4 (1910): View of the 11th street bridge and the filled condition of Parcel 94 and the vicinity after dredging of the Foss Waterway. property. Buildings associated with furniture manufacturing and millwork operations are present in the northern portion of Parcel 94. A wooden bulkhead is visible along the west and south portions of the property. The Wheeler Osgood mill buildings are visible in the southeastern portion of Parcel 94 and to the east of F-street. The Petrich property to the northwest of Parcel 94 is in use by the Vermont Marble Company at this time.



Photograph 5 (1927): View north along East F-Street toward the Property from the roof of the Wheeler Osgood mill buildings. The 2-story wooden building and other structures associated with operations of City Millworks Company are visible on the Property in the upper left portion of the photograph.



Photograph 6 (1930): View facing southeast toward the Washington Parlor Furniture Company building located immediately west of the Property.



Photograph 7 (1938): View from Downtown Tacoma across the Foss Waterway (formerly City Waterway). Northwest Door Company and associated Norwood Plywood operations are active on Parcel 94. The Peters Sand & Gravel Company and the Vermont Marble Company remain active on off-site properties to the northwest. Photograph from the Northwest Room at The Tacoma Public Library, image number "Richards Studio D7226-1."



Photograph 8 (1948): The fully built-out Hampton Lumber Company building is visible on the Property in the upper rear portion of the photo. Norwood Plywood and Door operations are present throughout Parcel 94. The eastern portion of Parcel 94 is occupied by support operations for the main Wheeler Osgood sash and door factory located east of F-Street. From the Northwest Room at The Tacoma public Library, image number "Richards Studio D35790-7."



Photograph 9 (1969): View from downtown Tacoma toward Parcel 94 and the Property. The Property is vacant at this time, following the fire in 1965 that burned down the Hampton Lumber Company building. Operations of the Plywood mill on Parcel 94 are visible. At this time the Petrich property northwest of Parcel 94 was used by Marine Iron Works Inc. and the Woodworth property was used by Woodworth & Company for operation of an asphalt plant.

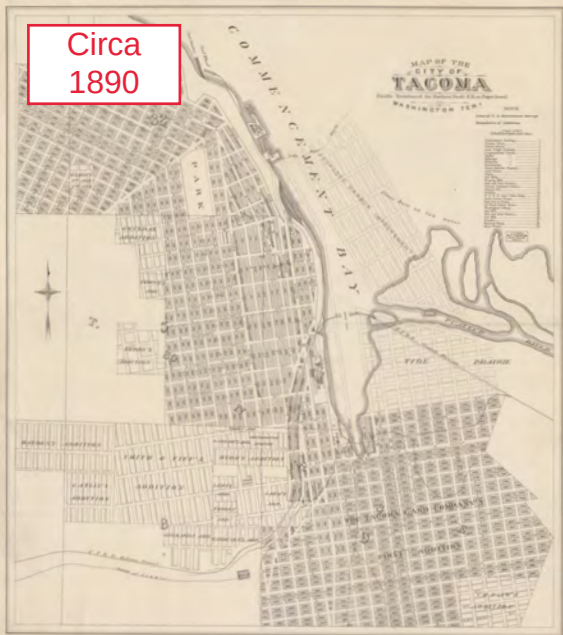
Appendix D

Historical City Directories

1877



Circa
1890



1902

Map
OF THE
CITY OF TACOMA
AND ENVIRONS.
Washington.

PACIFIC TERRITORY N.H.R.
COMPILED BY FRED. G. FUMMER, C.E.

Revised by
ALLEN C. MASON.

Established 1881, changed
1902. TACOMA, WASH.

COMMENCEMENT BAY

THE NARROWS



city Waterway

1587

214



TACOMA WOOD PIPE CO.
NOT IN OPERATION AT TIME OF SURVEY.
IN RECEIVERS HAND.
Note: Workman - No Clock - Forward Steam -
Fuel Pump & Receiver - Lights - Elec - City Water -
Grinnell Photo Sprinklers - No Sprink - No Sprink -
Any Sprink - Only Supply City Water.

FRANSIOLI

THE NOLL WELTY LUMBER CO.
LUMBER SHED

WASHINGTON PARLOR FURNACE CO.
FURNACE W. HO

WOOD PIPE CO.

1588

1589

Scale of Feet.

216

ST. E.

ST. PAUL AV.



METSKER'S ATLAS-TACOMA-WASHINGTON

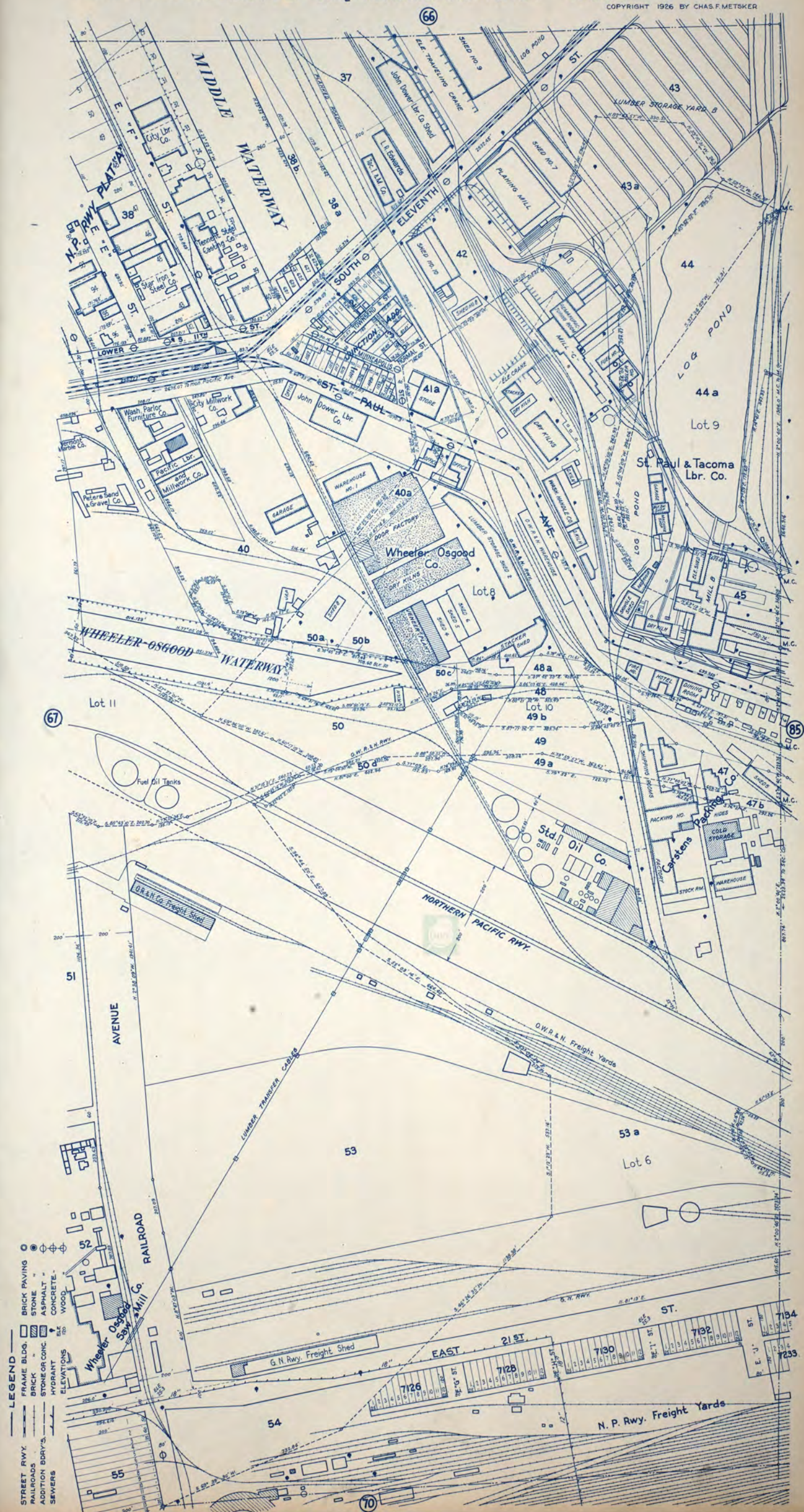
E.2 OF SEC.4, T.20N,R.3 E.W.M.

68

COMPILED BY CHAS. F. METSKER C.E. - 930 1/2 PACIFIC AVE. TACOMA, WASH.

SCALE ONE INCH = 200 FEET

COPYRIGHT 1926 BY CHAS. F. METSKER



Map Type: Real Estate Atlas
Publisher: Chas. F. Metsker
Publication Name: Tacoma, WA
Base Map Date: 1926
Revised Date:
Republished Date:
Sheet Number: 68

1926

Requested by: Envirosite Corporation

Wheeler Osgood
1203 E D St
Tacoma, WA 98421
Client Project # 85169
HIG Project # 2073407 www.historicalinfo.com





Map Type: Fire Insurance
 Publisher: Sanborn Map Co.
 Publication Name: Tacoma, WA Vol. 2A
 Base Map Date: 1912
 Revised Date: March 1950
 Republished Date:
 Sheet Number: 216

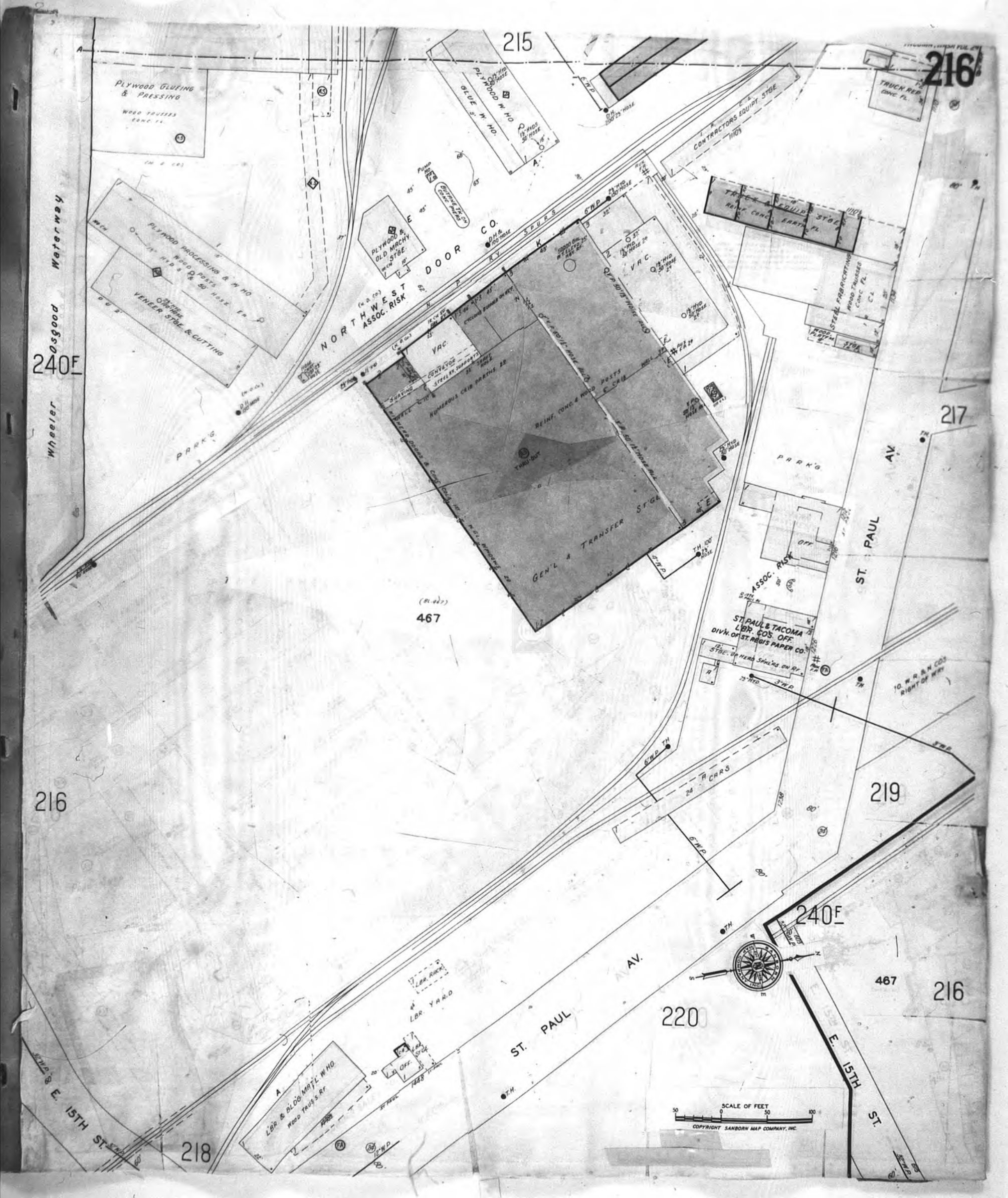
1950

Requested by: Envirosite Corporation

Wheeler Osgood
1203 E D St
Tacoma, WA 98421
Client Project # 85169
HIG Project # 2073407 www.historicalinfo.com







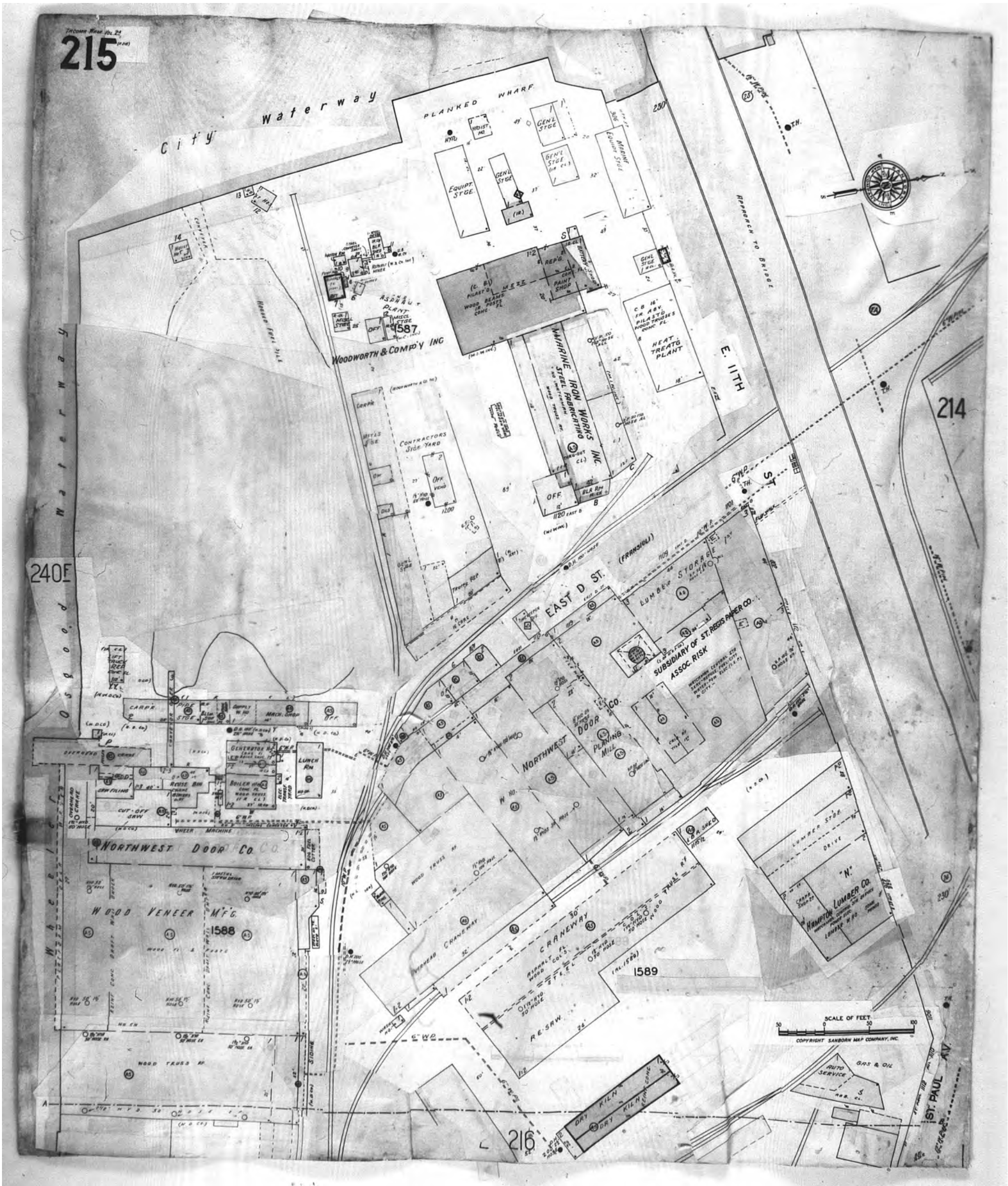
Map Type: Fire Insurance
Publisher: Sanborn Map Co.
Publication Name: Tacoma, WA Vol. 2A
Base Map Date:
Revised Date: 1965
Republished Date:
Sheet Number: 216

1965

Requested by: Envirosite Corporation

Wheeler Osgood
1203 E D St
Tacoma, WA 98421
Client Project # 85169
HIG Project # 2073407 www.historicalinfo.com





Map Type: Fire Insurance
Publisher: Sanborn Map Co.
Publication Name: Tacoma, WA Vol. 2A
Base Map Date:
Revised Date: 1965
Republished Date:
Sheet Number: 215

1965

Requested by: Envirosite Corporation

Wheeler Osgood
1203 E D St
Tacoma, WA 98421
Client Project # 85169
HIG Project # 2073407 www.historicalinfo.com



Appendix D

Historical City Directories



ENVIROSITE
Corporation

City Directory Report | 2023

Order Number: 85169

Report Generated: 03/31/2023

Wheeler Osgood
1203 E D St
Tacoma, WA 98421

56 Broome Corporate Parkway
Conklin, NY 13748

Prepared for Envirosite Corporation By:



Property Archives

Toll Free: 866-211-2028
www.envirositecorp.com

City Directory Report

Envirosite's Standard City Directory Report is a screening tool designed to assist in historical use determination of a subject property and adjacent properties. It includes a search of Property Archives digital datasets and national book collections including the Library of Congress and/or the Allen County Public Library at five year intervals or the closest available intervals.

RESEARCH SUMMARY:

The following research sources were consulted in the preparation of this report:

<u>SOURCE:</u>	<u>YEAR:</u>
Property Archives	2018, 2015, 2011, 2007, 2002, 1998, 1993
Tacoma City Directory	1988, 1983, 1978, 1973, 1968, 1965, 1960

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This report was prepared by Property Archives, LLC for Envirosite Corporation



SUBJECT PROPERTY:

1203 E D St , Tacoma, WA 98421

ADJOINING PROPERTIES:

459 - 635 E 15th St, Tacoma, WA

1000-1300 E D St, Tacoma, WA, 98421

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2018 1000-1300 E D St, Tacoma, WA, 98421

OLYMPIC CHEMICAL CORP	1002 E D ST
UNIVAR USA	1002 E D ST
DENNIS REDMON	1118 E D ST 7
M D MARINE ELECTRIC LTD	1118 E D ST
PETRICH MARINE DOCK	1118 E D ST 1
RUBENSTEINS CONTRACT CARPET	1118 E D ST
SECURITY CONTROL SYSTEMS	1118 E D ST
REVALESIO CORP	1200 E D ST
NMFN	1202 E D ST 205
WATTLES CO	1203 E D ST 209
MARINE FLOATS	1208 E D ST

2015 1000-1300 E D St, Tacoma, WA, 98421

OLYMPIC CHEMICAL CORP	1002 E D ST
M D MARINE ELECTRIC LTD	1118 E D ST
PETRICH MARINE DOCK	1118 E D ST 1
QUINNSBOATS.COM	1118 E D ST
RUBENSTEINS CONTRACT CARPET	1118 E D ST
NORDLUND BOAT CO	1120 E D ST
REVALESIO CORP	1200 E D ST
NORTHWESTERN MUTUAL FINANCIAL	1201 E D ST
CONSTRUCTION TESTING LAB INC	1202 E D ST 101
MARINE FLOATS	1208 E D ST
BERG EQUIPMENT & SCAFFOLDING	1230 E D ST

2011 1000-1300 E D St, Tacoma, WA, 98421

Geoff Black	1002 E D ST
KATHERINE REDMON	1118 E D ST STE 7
Clare Petrich	1118 E D ST STE 1
Revalerio Corp	1200 E D ST
Northwestern Mutual Financial	1201 E D ST
PUGET SOUND BENEFITS SVC	1202 E D ST STE 205
Bruce West	1202 E D ST STE 204
Wendell Stroud	1208 E D ST

2007 1000-1300 E D St, Tacoma, WA, 98421

GEOFF BLACK	1002 E D ST
FRAN WARD	1118 E D ST
CLARE PETRICH	1118 E D ST 1
RUBENSTEINS CONTRACT CARPET	1118 E D ST
NORDLUND BOAT CO	1120 E D ST
REVALESIO CORP	1200 E D ST
NORTHWESTERN MUTUAL FINANCIAL	1201 E D ST
LLYOD DETTERICH	1202 E D ST 101
WENDELL STROUD	1208 E D ST

2002 1000-1300 E D St, Tacoma, WA, 98421

Olympic Chemical Corp	1002 E D St
-----------------------	-------------

Derek's Marine Svc	1118 E D St
MD Marine Electric	1118 E D St
Petrich Marine Dock	1118 E D St
Reliable Canvas	1118 E D St
Tacoma Little Theatre Theme Sh	1118 E D St
Lann Tooling Technologies	1120 E D St
Interlam Inc	1200 E D St
Woodworth & CO	1200 E D St
Construction Testing Lab Inc	1201 E D St
ID Micro	1201 E D St
Tag Master Inc	1201 E D St
Alfab Wood Products & Svc Inc	1203 E D St
Real Property Enterprises Inc	1203 E D St
United Steelworkers of America	1203 E D St
Wattles CO	1203 E D St
Western Steel Fabricators	1207 E D St
Marine Floats	1208 E D St
Thunder Pacific Mar Tow & Sal	1210 E D St
Cmi Inc	1227 E D St

1998 1000-1300 E D St, Tacoma, WA, 98421

Olympic Chemical Corp Plant	1002 E D St
Hyland Engineering	1118 E D St
Petrich Marine	1118 E D St
Woodworth & Company	1200 E D St
Woodworth & Company Inc	1200 E D St
Don Shaw	1203 E D St
D & D Wood Products Services	1203 E D St
Food Markets NW	1203 E D St
Real Property Enterprises I	1203 E D St
Ronco Wood Products	1203 E D St
United Steel Workers of America Local 7945	1203 E D St
Washington Power Management	1203 E D St
Wattles CO the	1203 E D St
Western Steel Fabricators	1207 E D St
Marine Floats	1208 E D St
Secarb Corporation	1208 E D St
Return Inc	1227 E D St

1993 1000-1300 E D St, Tacoma, WA, 98421

OLYMPIC CHEMICAL CORP PLANT	1002 E D ST
PETRICH MARINE CHARTERS CORP	1118 E D ST
MARINE IRON WORKS INC	1120 E D ST
WOODWORTH CO INC	1200 E D ST
FRICK ANDREW A	1203 E D ST
REAL PROPERTY ENTERPRISES INC	1203 E D ST
ROYAL SON INCORPORATED	1203 E D ST
WESTERN STEEL FABRICATORS	1207 E D ST
RETURN INC	1227 E D ST

1002 Olympic Chemical Corp (stge & proc
plant)
1017 Vacant
E 11TH ST INTERSECTS
1120 Puget Sound Heat Treating Div
383-4651
1118 Vacant
1120 Marine Iron Works Inc mach shop
383-4651
1200 Woodworth & Co Inc bldg contrs
383-3585
1203 Twelve O Three East D St ofc bldg
272-7205
101 Jensen Norman G Brokers foreign
freights 272-0851
102 Washington Power Mgmt (Addl
Sp)
103 Vacant
104 Washington Power Mgmt (Addl
Sp)
105 Vacant
106 Vacant
107 Vacant
108 B & D International (Addl Sp)
109 Washington Power Management
energy mgmt 272-2525
110 B & D International Inc wood
whse 627-4788
201 Real Property Enterprises Inc coml
real est 527-9756
202 Puget Sound Warehousing Inc
383-4038
204 Lumberman's Distribution Center
lumber reload 383-4799
205 Frick Andrew A real est broker
383-3871
Universal Synergetics research
272-7740
208 Copier Room
207 Vacant
210 Byrd G M Co coml brokerage
272-0606
211 Wattles Co The ofc coml stge
272-7205
212 Universal Synergetics (Addl Sp)
214 Wattles Co (Addl Sp)
215 Break Area & Lounge
1207 Western Steel Fabricators 383-4091
1208 Sound Environmental Inc filtration
equip 728-2898
Marine Floats agrl & floating docks
383-2740
1215 Wattles Co The (whse)
1227 Wattles Co (Annex)
NO THROUGH TRAFFIC
S 15TH ST INTERSECTS
1525 West Coast Grocery Co whol 593-3200

IMAGE: 1 of 1
SOURCE: Tacoma City Directory
STREET: 1000-1300 E D St, Tacoma, WA, 98421
YEAR: 1988

820 Pacific Pattern Works Inc 272-4314
1002 Olympic Chemical Corp fuel 572-2535
1017 Vacant
E 11TH ST INTERSECTS
1102 Puget Sound Heat Treating Div
383-4651
1118 Pan-Alaska Fisheries 383-3694
Petrich Hervey M Marine Charters
Corp marine equip 272-1005
Western Air Filter Service clnrs
383-4134
Cash Discount Card Of Tacoma
383-0577
1120 Marine Iron Works Inc mach shop
383-4651
1200 Woodworth & Co Inc bldg contrs
383-3585
1201 Advance Feed Co 627-6222
Wattles Building 272-7205
1203 Wattles Co whse 272-7205
Vacant
1215 Wattles Co The stge 272-7205
1227 Carpenter E R Urethane Foam foam
prods 383-4008
S 15TH ST INTERSECTS
1525 West Coast Grocery Co whol 593-3200

IMAGE:

1 of 1

SOURCE:

Tacoma City Directory

STREET:

1000-1300 E D St, Tacoma, WA, 98421

YEAR:

1983

820 Pacific Pattern Works Inc 272-4314

**1002 Pacific Northern Oil Corp fuel
572-4215**

**1017 Canadian Cedar Prod Inc textured lbr
mfg 627-8555**

E 11TH ST INTERSECTS

**1102 Puget Sound Heat Treating Co
383-4651**

**1118 Pan-Alaska Fisheries coml fisheries
637-2857**

**Petrich Hervey M Marine Charters
Corp marine equip 272-1005**

**Western Air Filter Service Co clnrs
383-4134**

**1120 Marine Iron Works Inc mach shop
383-4651**

**1200 Woodworth & Co Inc bldg contrs
383-3585**

**1203 Saint Regis Lumber Plywood Sls
(Prod Plng) mfrs 572-8300**

S 15TH ST INTERSECTS

1525 West Coast Grocery Co whol 593-3200

IMAGE:

1 of 1

SOURCE:

Tacoma City Directory

STREET:

1000-1300 E D St, Tacoma, WA, 98421

YEAR:

1978

820 Pacific Pattern Works Inc BR2-4314

1002 Atlantic-Richfield Co whol gas
BR2-2234

1017 Cabinet Components Inc mfgers
BR2-2219

S 11TH ST INTERSECTS

1102 Puget Sound Heat Treating Co
FU3-4651

1118 Drury & Petrich marine consultants
BR2-1005

1120 Marine Iron Works Inc mach shop
FU3-4651

1200 Woodworth & Co Inc bldg contrs
FU3-3585

1203 Saint Regis Paper Co Plywood Door
Sls (Prod Plng) lumber mfrs 572-8300

S 15TH ST INTERSECTS

1525 West Coast Grocery Co whol 593-3200

IMAGE:

1 of 1

SOURCE:

Tacoma City Directory

STREET:

1000-1300 E D St, Tacoma, WA, 98421

YEAR:

1973

820 PACIFIC PATTERN WORKS INC
BR2-4314
1002 RICHFIELD OIL CORP WHOL GAS
BR2-2234
1005 FICK FOUNDRY CO BR2-1249
1017 JUNIOR LINE FURNITURE CO MFRS
FU3-3549
---S 11TH INTERSECTS
1102 PUGET SOUND HEAT TREATING CO
FU3-4651
1118 DRURY & PETRICH MARINE
CONSULTANTS BR2-4109
1120 MARINE IRON WORKS INC MACH
SHOP FU3-4651
1200 WOODWORTH & CO INC BLDG
CONTRS FU3-3585
1203 P1720 MFRS FU3-1861
---S 15TH INTERSECTS
1501 MARTINAC J M SHIPBUILDING

IMAGE:

1 of 1

SOURCE:

Tacoma City Directory

STREET:

1000-1300 E D St, Tacoma, WA, 98421

YEAR:

1968

820 PACIFIC PATTERN WORKS INC
BR2-4314
1002 RICHFIELD OIL CORP WHOL
GAS BR2-2234
1005 FICK FOUNDRY CO BR2-1249
1017 JUNIOR LINE FURNITURE CO
MFRS BR2-2882
---S 11TH INTERSECTS
1102 PUGET SOUND HEAT TREATING
CO BR2-2040
1118 DRURY & PETRICH
CONSULTANTS BR2-4109
ROGER CHARLES B CO
BATTRIES BR2-4109
1120 MARINE IRON WORKS INC
MACH SHOP BR2-5181
1200 WOODWORTH & CO INC BLDG
CONTRS FU3-3585
1203 SAINT REGIS PAPER CO
(NORTHWEST DOOR DIV)
MFRS FU3-1861
1501 MARTINAC J M SHIPBUILDING

IMAGE:

1 of 1

SOURCE:

Tacoma City Directory

STREET:

1000-1300 E D St, Tacoma, WA, 98421

YEAR:

1965

820 Pac Pattern Wks ΔBR2-4314
1002 Richfield Oil Corp whol gas
ΔBR2-2234
1005 Fick Fndry Co ΔBR2-1429
1017 Junior Line Furn Co mfrs
ΔBR2-2882
S 11th intersects
1102 Puget Sound Htg Treatment
mtl heat treating
ΔBR2-2040
1118 Roger Chas B Co batteries
ΔBR2-4109
1120 Marine Iron Wks Inc
ΔBR2-5181
1200 Woodworth & Co Inc genl contrs
ΔFU3-3585
1203 Northwest Door Co Div St
Regis Paper Co mfrs
ΔFU3-4321
Northwest Door & Plywood Sls
Inc plywood mfrs
ΔFU3-4321
1501 Martinac J M Shipbuilding

IMAGE:

1 of 1

SOURCE:

Tacoma City Directory

STREET:

1000-1300 E D St, Tacoma, WA, 98421

YEAR:

1960

2018: E 15th St, Tacoma, WA

BEAR WOOD WINDOWS INC	459 E 15TH ST	B
FOSS WATERWAY SEAPORT	459 E 15TH ST	A
URBAN ACCESSORIES	465 E 15TH ST	
UNIVERSAL STEEL FABRICATORS	525 E 15TH ST	
STEELER INC	540 E 15TH ST	
RAINIER RICHLITE	624 E 15TH ST	
RAINIER PLYWOOD CO	624 E 15TH ST	
PREMIER PLASTICS	635 E 15TH ST	
BERRY PLASTICS	635 E 15TH ST	

2015: E 15th St, Tacoma, WA

BEAR WOOD WINDOWS INC	459 E 15TH ST	B
FOSS WATERWAY SEAPORT	459 E 15TH ST	A
URBAN ACCESSORIES	465 E 15TH ST	
UNIVERSAL STEEL FABRICATORS	525 E 15TH ST	
STEELER INC	540 E 15TH ST	
RAINIER RICHLITE	624 E 15TH ST	
BERRY PLASTICS	635 E 15TH ST	
PREMIER PLASTICS	635 E 15TH ST	

2011: E 15th St, Tacoma, WA

Grace Morrisson	459 E 15TH ST	STE B
Fred Nix	459 E 15TH ST	
Mary Haggard	465 E 15TH ST	
EDNA SOLLINGER	506 E 15TH ST	
Marcos Cuevas	540 E 15TH ST	
Shawn O Day	624 E 15TH ST	
Port of Call Landbroker	624 E 15TH ST	
Premier Plastics	635 E 15TH ST	
Tom Kerstetter	635 E 15TH ST	

2007: E 15th St, Tacoma, WA

GRACE MORRISON	459 E 15TH ST	B
MARY HAGGARD	465 E 15TH ST	
BRYAN CORMACK	525 E 15TH ST	
FRANK WELLMAN	540 E 15TH ST	
SHAWN O DAY	624 E 15TH ST	
PREMIER PLASTICS	635 E 15TH ST	
WAYNE SWEET	635 E 15TH ST	

2002: E 15th St, Tacoma, WA

Bear Wood Windows	459 E 15th St
Northwest Stair Specialties	459 E 15th St
Temtco Steel	459 E 15th St
Johnson & Postman Wood Spec	459 E 15th St
Solidroc	512 E 15th St
Bokay To Go	525 E 15th St
Steeler Inc	540 E 15th St
Port of Call Landbroker	624 E 15th St
Rainier Richlite	624 E 15th St
Premier Plastics	635 E 15th St

1998: E 15th St, Tacoma, WA

Johnson & Postman Wood Special	459 E 15th St
Wood Specialties Johnson & Postman	459 E 15th St
Lyden Cast Parts	465 E 15th St
Freight Management Services Inc	512 E 15th St
Bokay To Go	525 E 15th St
Gordon Dowling	525 E 15th St
Richlite	624 E 15th St
Rainier Plywood CO	624 E 15th St
Holiday Eng & Manuf CO (Hemco)	624 E 15th St
Port of Call Landbroker	624 E 15th St
Artisan III	624 E 15th St
Freight Management Services Inc	630 E 15th St
Freight Management Companies	630 E 15th St
Premier Plastics	635 E 15th St

1993: E 15th St, Tacoma, WA

JOHNSON GROUP INC THE	459 E 15TH ST
JOHNSON & POSTMAN WOOD	459 E 15TH ST
ENGLISH J D STEEL CO	465 E 15TH ST
MAILMEDIA	512 E 15TH ST
GENERAL BEER DISTRIBUTING CO	525 E 15TH ST
RAINIER PLYWOOD CO	624 E 15TH ST
PORT OF CALL TAX & ACCOUNTING	624 E 15TH ST
PORT OF CALL LAND BROKERS	624 E 15TH ST
VENEER TECHNOLOGY INC	630 E 15TH ST
NORTHWEST CONTAINERS	635 E 15TH ST

459a Johnson & Postman Wood Specialties
(Annex)

459 Johnson & Postman Wood Specialties
wood turners 383-4603

Johnson Group Inc The exporters
272-5116

465 English J D Steel Co steel fabricators
272-1103

512 Vacant

525 General Beer Distributing Co 627-4166

540 Vacant

545 B & D International (Rear Entrance)
L D C (Rear Entrance) 383-4799

EAST F ST INTERSECTS

624 Port Of Call Land Brokers 383-5535
Rainier Plywood Co 383-5533

630 Metropolitan Development Council
(Annex) 597-6738

635 Northwest Containers plastic prods
mfrs 627-2151

635a Clover Park Vo-Tech (Marine Mech
Prog) 756-5889

Clover Park Vo-Tech (R V Tech
Prog) 756-5890

EAST J ST INTERSECTS

ST PAUL AV INTERSECTS

IMAGE:

1 of 1

SOURCE:

Tacoma City Directory

STREET:

E 15th St, Tacoma, WA

YEAR:

1988

383-3004
459 Commercial Carpets Inc carpeting sls
& installation 627-0178
Johnson Richard A Cedar Products lbr
whol 383-4603
R E P Inc elec contrs 272-5117
Johnson & Postman Wood Specialties
383-4603
Bookkeeping & Tax Service 627-6152
Samoan Imports Ltd lbr import
572-9941
W R C Lumber Products 627-2339
B & D International import & export
627-4788
465 English J D Steel Co steel fabricators
272-1103
512 City Delivery Inc 272-6330
Mailmedia direct mail service 572-6042
525 Service Distributing Co beer & wine
distrs 383-2091
540 O'Farrell Distributing Co liquor
383-4666
624 Port Of Call Land Brokers real est
383-5536
630 Oregon-Pacific Building Products bldg
matls 272-3131
635 Northwest Containers Inc plastic prods
mfrs 627-2151
635a Astraseal door & window mfrs
383-2011

IMAGE:

1 of 1

SOURCE:

Tacoma City Directory

STREET:

E 15th St, Tacoma, WA

YEAR:

1983

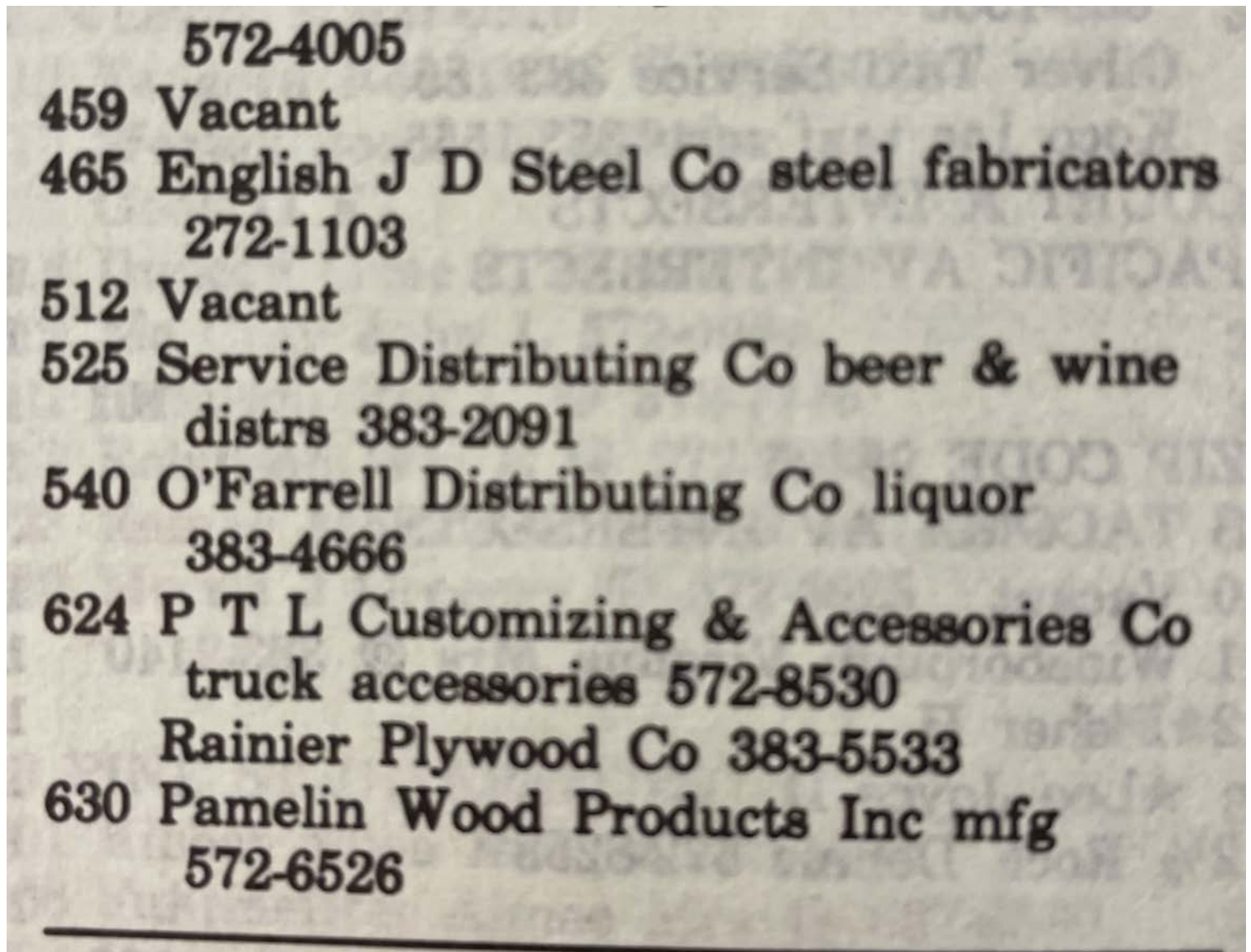


IMAGE:

1 of 1

SOURCE:

Tacoma City Directory

STREET:

E 15th St, Tacoma, WA

YEAR:

1978

BR2-4151

459 Johnson A J & Co bldg matls

MA7-4186

465 English J D Steel Co steel fabricators

BR2-1103

512 Vacant

525 Service Distributing Co beer & wine
distrs FU3-2091

540 Benoff Inc real estate FU3-4666

O'Farrell Distributing Co liquor
FU3-4666

624 Farwest Plywood Co FU3-5533

Rainier Plywood Co FU3-5533

IMAGE:

1 of 1

SOURCE:

Tacoma City Directory

STREET:

E 15th St, Tacoma, WA

YEAR:

1973

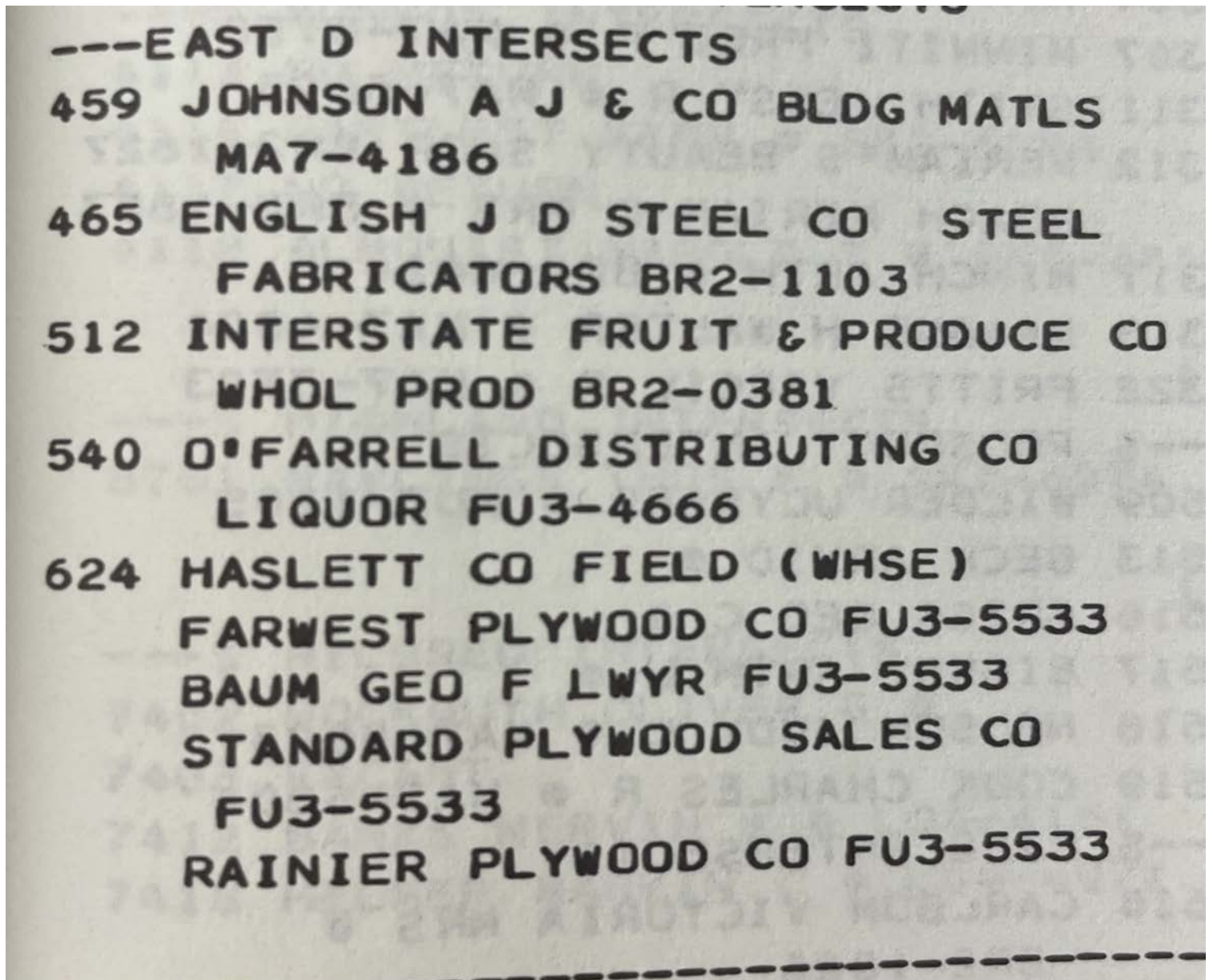


IMAGE:

1 of 1

SOURCE:

Tacoma City Directory

STREET:

E 15th St, Tacoma, WA

YEAR:

1968

---EAST D INTERSECTS
459 JOHNSON A J & CO BLDG
MATLS MA7-4186
465 ENGLISH J D STEELE CO
STEEL FABRICATORS
BR2-1103
512 INTERSTATE FRUIT & PRODUCE
CO WHOL PROD BR2-0381
540 UNITED STATES PLYWOOD CORP
(BR) WHOL BR2-4141
624 VACANT

IMAGE:

1 of 1

SOURCE:

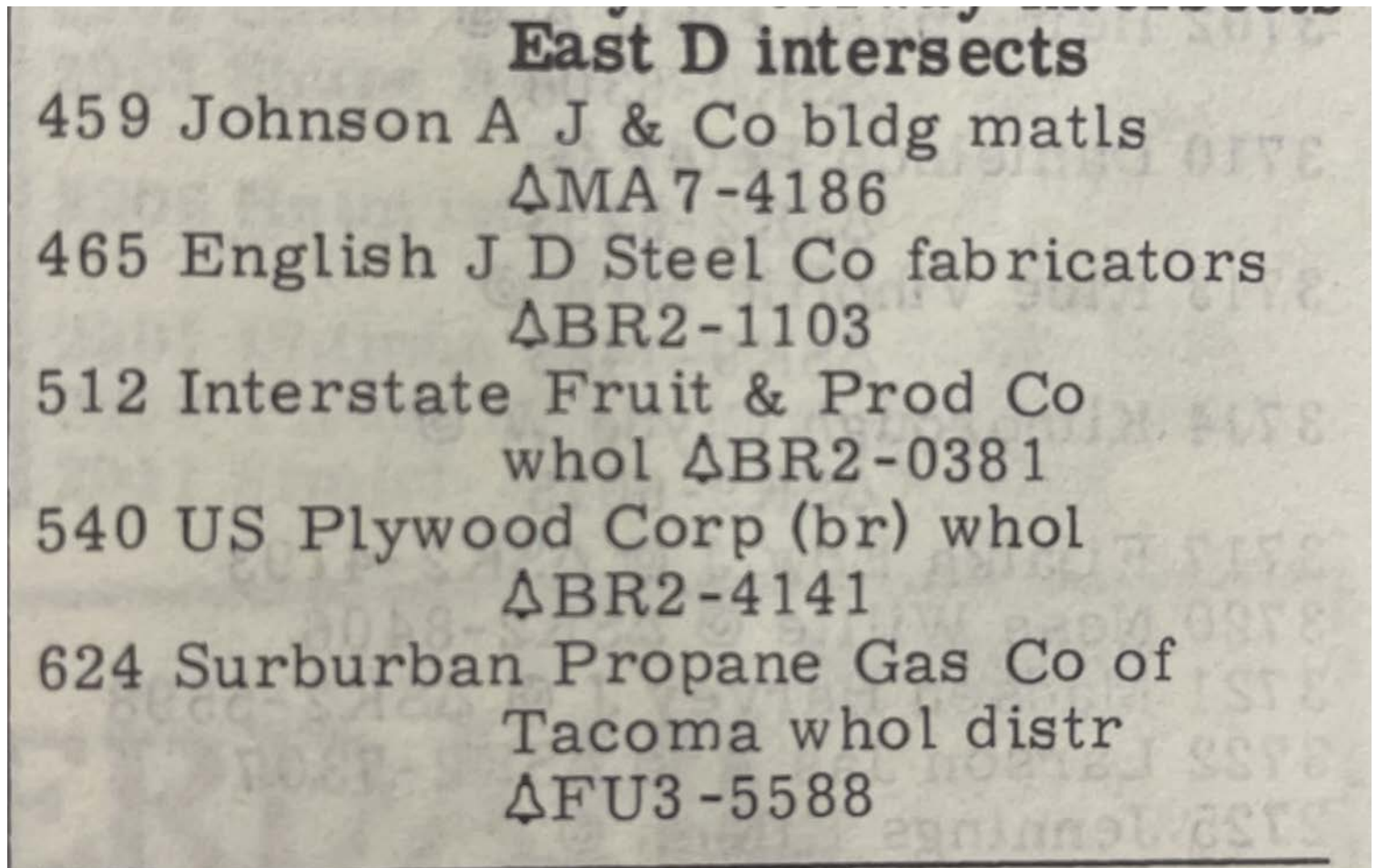
Tacoma City Directory

STREET:

E 15th St, Tacoma, WA

YEAR:

1965

IMAGE:

1 of 1

SOURCE:

Tacoma City Directory

STREET:

E 15th St, Tacoma, WA

YEAR:

1960

Appendix E

Boring Logs

Boring Log

P94-SO-92

Sheet 1 of 1

Project: 426 E. 11th Street: Phase II					Location: Tacoma, Washington			Project #: 230092-01.05			
Client: Port of Tacoma					Contractor: Cascade Environmental			Drilling Equipment: LS 250			
Logged By: H. Sharkey					Method/Core Diameter: Sonic / 6 inches			Total Depth (feet): 20			
Northing: 706198.15 Easting: 1161496.07					Horizontal Datum: NAD 83 WA State Plane South, feet			Date Started: 7/25/23			
Groundwater Depth (feet BGS): 10					Elevation (feet MLLW): 17.8			Date Completed: 7/25/23			
In-situ Depth (feet)	Elevation (feet MLLW)	Sample	Chemical Analysis	Recovery (feet)	PID (ppm)	Soil Description Samples and Descriptions are in in-situ depths. Classification Scheme: USCS					In-situ Interval

0		P94-SO-92-0-1	Metals, PHCs, PAHs, PCBs, Archive	5/5	0	0-0.4 feet: CONCRETE	
1	17				0	0.4-2 feet: Loose, dry, brown, GRAVELLY SAND (SW), fine to medium sand	
2	16				0		
3	15				0	2-11.7 feet: Loose, moist, brown, SAND (SW), occasional gravel	
4	14				0		
5	13				0		
6	12				0		
7	11				0		
8	10			5/5	0		
9	9				0		
10	8				0		
11	7	P94-SO-92-10-12	VOCs, D/F, Metals, PHCs, PAHs, PCBs, Archive		0	@10 feet: grades to wet	
12	6				0		
13	5				0	11.7-17.5 feet: Stiff, wet, gray, SILT (ML), dark gray mottles, interpreted native contact	
14	4	P94-SO-92-13-14	Archive		0		
15	3			10/10	0		
16	2				0		
17	1				0		
18	0				0	17.5-20 feet: Medium dense, wet, gray, SAND (SP), trace silt	
19	-1				0		
20	-2				0		

Boring Log

P94-SO-93

Sheet 1 of 1

Project: 426 E. 11th Street: Phase II	Location: Tacoma, Washington	Project #: 230092-01.05
Client: Port of Tacoma	Contractor: Cascade Environmental	Drilling Equipment: LS 250
Logged By: H. Sharkey	Method/Core Diameter: Sonic / 6 inches	Total Depth (feet): 20
Northing: 706185.53 Easting: 1161559.78	Horizontal Datum: NAD 83 WA State Plane South, feet	Date Started: 7/25/23
Groundwater Depth (feet BGS): 10	Elevation (feet MLLW): 19.09	Date Completed: 7/25/23

In-situ Depth (feet)	Elevation (feet MLLW)	Sample	Chemical Analysis	Recovery (feet)	PID (ppm)	Soil Description Samples and Descriptions are in in-situ depths. Classification Scheme: USCS	In-situ Interval
----------------------	-----------------------	--------	-------------------	-----------------	-----------	--	------------------

0	19						
1	18	P94-SO-93-0-2	Archive		0	0-3 feet: Loose, dry to moist, brown, GRAVELLY SAND (SW), fine to medium sand, frequent gravel and cobbles up to 2 inches	
2	17			5/5	0	@0.8-1.3 feet: Loose, dry, gray, with gravel and frequent organics (wood)	
3	16				0		
4	15	P94-SO-93-4-5	Archive		0	3-10 feet: Loose, moist, brown, SAND (SW), occasional gravel	
5	14				0		
6	13			5/5	0		
7	12				0		
8	11				0		
9	10				0		
10	9				0		
11	8	P94-SO-93-10-12	Archive		0	10-13.3 feet: Loose, wet, gray, SAND WITH SILT (SP)	
12	7				0		
13	6				0	@13.2 feet: occasional organics	
14	5			10/10	0	13.3-18.5 feet: Soft, wet, gray, SILT (ML), some mottling, interpreted native contact	
15	4				0	@14 feet: occasional organics - fine roots	
16	3				0		
17	2				0		
18	1				0		
19	0				0	18.5-20 feet: Loose, wet, gray, SAND (SP)	
20					0		

Boring Log

P94-SO-94

Sheet 1 of 1

Project: 426 E. 11th Street: Phase II					Location: Tacoma, Washington		Project #: 230092-01.05	
Client: Port of Tacoma					Contractor: Cascade Environmental		Drilling Equipment: LS 250	
Logged By: H. Sharkey					Method/Core Diameter: Sonic / 6 inches		Total Depth (feet): 20	
Northing: 706297.22 Easting: 1161438.58					Horizontal Datum: NAD 83 WA State Plane South, feet		Date Started: 7/25/23	
Groundwater Depth (feet BGS): 9					Elevation (feet MLLW): 18.66		Date Completed: 7/25/23	
In-situ Depth (feet)	Elevation (feet MLLW)	Sample	Chemical Analysis	Recovery (feet)	PID (ppm)	Soil Description		In-situ Interval
						Samples and Descriptions are in in-situ depths.		
						Classification Scheme: USCS		

0		P94-SO-94-0-1	Archive			0-1.5 feet: Loose, dry, gray, GRAVELLY SAND (SW), fine to medium sand, subangular gravel up to 1 inch	
1	18				0		
2	17			5/5	0	1.5-2.1 feet: Loose, moist, brown, SAND (SP), trace silt	
3	16				0	2.1-4 feet: Soft, moist, brown, SILT WITH SAND (ML)	
4	15				0	@3.1 feet: light brown sand lens	
5	14				0	@3.5 feet: glass and metal wire fragments	
6	13				0	4-8.5 feet: Loose, moist, brown, SAND (SW), occasional gravel	
7	12				0		
8	11			5/5	0		
9	10				0	8.5-13.5 feet: Soft, wet, brown-gray, SANDY SILT (ML), occasional gravel and brick pieces, interpreted native contact	
10	9	P94-SO-94-9-10	Archive		0	@8.5-10 feet: occasional gravel and brick pieces	
11	8				0	@10-13.5 feet: frequent organics (wood fibers, sticks)	
12	7				0	@11 feet: avian bone fragment	
13	6				0	@11.5 feet: occasional chunks of wood	
14	5				0	@13.3 feet: ceramic fragments, brick fragments	
15	4			10/10	0	13.5-18 feet: Soft, wet, gray, SILT (ML), dark gray mottling	
16	3				0		
17	2				0		
18	1				0		
19	0				0	18-20 feet: Soft wet, gray, SILTY SAND (SW), occasional gravel	
20	-1				0		

Boring Log

P94-SO-95

Sheet 1 of 1

Project: 426 E. 11th Street: Phase II	Location: Tacoma, Washington	Project #: 230092-01.05
Client: Port of Tacoma	Contractor: Cascade Environmental	Drilling Equipment: LS 250
Logged By: H. Sharkey	Method/Core Diameter: Sonic / 6 inches	Total Depth (feet): 20
Northing: 706265.9 Easting: 1161533.64	Horizontal Datum: NAD 83 WA State Plane South, feet	Date Started: 7/24/23
Groundwater Depth (feet BGS): 9	Elevation (feet MLLW): 19.45	Date Completed: 7/24/23

In-situ Depth (feet)	Elevation (feet MLLW)	Sample	Chemical Analysis	Recovery (feet)	PID (ppm)	Soil Description Samples and Descriptions are in in-situ depths. Classification Scheme: USCS	In-situ Interval
----------------------	-----------------------	--------	-------------------	-----------------	-----------	--	------------------

0						0-3 feet: Loose, dry to moist, brown, GRAVELLY SAND (SW), fine to coarse sand, frequent gravel	
1	19	P94-SO-95-0-2	Archive		0		
2	18			5/5	0		
3	17				0		
4	16				0	3-6.5 feet: Loose, moist, brown, SAND (SP), some silt clasts	
5	15	P94-SO-95-4-5	Archive		0		
6	14				0		
7	13			5/5	0	6.5-9 feet: Firm, moist, gray, SILT WITH GRAVEL (ML), brick fragments	
8	12				0		
9	11				0		
10	10	P94-SO-95-9-10	Archive		0	9-13 feet: Loose, wet, dark, gray, SAND WITH SILT (SP-SM), frequent organics	
11	9				0	@9-10 feet: occasional carbon-like pieces, historic debris (glass bottle, copper wire, metal nails), more silt	
12	8				0	@10-12 feet: less silt	
13	7				0	@12-13 feet: more silt	
14	6				0	13-14.7 feet: Firm, wet, mottled light and dark gray, SILT (ML), interpreted native contact	
15	5			10/10	0	@14.2 feet: wood	
16	4				0	14.7-20 feet: Medium dense, wet, dark gray, SAND (SP), with multi-color sand grains	
17	3				0	@16 feet: silt lens	
18	2				0	@17.2 feet: sand lens	
19	1				0		
20	0				0		

Boring Log

P94-SO-96

Sheet 1 of 1

Project: 426 E. 11th Street: Phase II				Location: Tacoma, Washington				Project #: 230092-01.05				
Client: Port of Tacoma				Contractor: Cascade Environmental				Drilling Equipment: LS 250				
Logged By: H. Sharkey				Method/Core Diameter: Sonic / 6 inches				Total Depth (feet): 20				
Northing: 706250.15 Easting: 1161632.62				Horizontal Datum: NAD 83 WA State Plane South, feet				Date Started: 7/24/23				
Groundwater Depth (feet BGS): 10				Elevation (feet MLLW): 19.28				Date Completed: 7/24/23				
In-situ Depth (feet)	Elevation (feet MLLW)	Sample	Chemical Analysis	Recovery (feet)	PID (ppm)	Soil Description						In-situ Interval
						Samples and Descriptions are in in-situ depths. Classification Scheme: USCS						

0	19	P94-SO-96-0-2	VOCs, D/F, Metals, PHCs, PAHs, PCBs, Archive	5/5	0	0-2.9 feet: Loose, dry, brown, GRAVELLY SAND (SW), fine to coarse sand, trace silt, frequent subangular gravel to 1 inch	
1	18				0	@2.3-2.7 feet: gray sand lens	
2	17				0	2.9-13.4 feet: Loose, moist, brown, SAND (SP), trace silt, trace gravel	
3	16			5/5	0		
4	15	P94-SO-96-4-5	Archive		0		
5	14				0		
6	13			5/5	0		
7	12				0		
8	11				0		
9	10			10/10	0	@10 feet: grades to wet	
10	9	P94-SO-96-10-12	VOCs, D/F, Metals, PHCs, PAHs, PCBs, Archive		0	@10-12 feet: occasional gravel	
11	8				0		
12	7			10/10	0	@13-13.4 feet: organic matter	
13	6				0	13.4-18 feet: Firm, wet, gray-brown, SILT (ML), interpreted native contact	
14	5				0		
15	4	P94-SO-96-15-16	Archive	10/10	0	@15.2-15.8 feet: lens with frequent organic matter	
16	3				0	@15.3 feet: occasional carbon-like pieces	
17	2				0	@16-16.5 feet: dark gray mottling	
18	1			10/10	0	18-20 feet: Loose, wet, gray, SAND (SP), fine to medium sand	
19	0				0		
20					0		

Boring Log

P94-SO-97

Sheet 1 of 1

Project: 426 E. 11th Street: Phase II				Location: Tacoma, Washington			Project #: 230092-01.05	
Client: Port of Tacoma				Contractor: Cascade Environmental			Drilling Equipment: LS 250	
Logged By: H. Sharkey				Method/Core Diameter: Sonic / 6 inches			Total Depth (feet): 20	
Northing: 706330.51		Easting: 1161594.71		Horizontal Datum: NAD 83 WA State Plane South, feet			Date Started: 7/24/23	
Groundwater Depth (feet BGS): 10				Elevation (feet MLLW): 19.18			Date Completed: 7/24/23	
In-situ Depth (feet)	Elevation (feet MLLW)	Sample	Chemical Analysis	Recovery (feet)	PID (ppm)	Soil Description		In-situ Interval
						Samples and Descriptions are in in-situ depths.		
						Classification Scheme: USCS		

0	19	P94-SO-97-0-2	VOCs, D/F, Metals, PHCs, PAHs, PCBs, Archive	5/5	0	0-3.3 feet: Loose, dry to moist, light brown to gray, GRAVELLY SAND (SW), fine to coarse sand, trace silt, frequent gravel, occasional cobbles up to 3 inches	
1	18				0	@0-2 feet: grades light to dark brown	
2	17				0	@2-3.3 feet: grades to gray	
3	16			5/5	0	3.3-7.8 feet: Firm, moist, light gray with light brown mottling, GRAVELLY SILT (ML), frequent gravel, occasional concrete	
4	15	P94-SO-97-4-5	Archive		0		
5	14				0	@6.5-7.8 feet: frequent brick	
6	13			5/5	0	7.8-10 feet: Loose, moist, dark brown, SILT WITH SAND (SP), frequent organics, concrete and brick debris	
7	12				0	@8.8-9.5 feet: frequent wood fragments	
8	11				0	10-13.3 feet: Loose, wet, gray, SAND (SP)	
9	10			10/10	0	@11.8-12.6 feet: interbedded silt and sand lenses @11.9-12.1 feet: shell fragment lens	
10	9	P94-SO-97-10-12	VOCs, D/F, Metals, PHCs, PAHs, PCBs, Archive		0	13.3-16.3 feet: Firm, wet, gray with light gray mottles, SILT (ML), shell fragments, interpreted native contact	
11	8				0	@16 feet: grades sandier	
12	7			10/10	0	16.3-20 feet: Loose, wet, gray, SAND (SW), fine to coarse sand	
13	6	P94-SO-97-14-15	Archive		0		
14	5				0		
15	4				0		
16	3				0		
17	2				0		
18	1				0		
19	0				0		
20					0		

Appendix F

Analytical Data Reports

ANALYTICAL REPORT

PREPARED FOR

Attn: Lab Data
Anchor QEA LLC
1201 3rd Ave
Suite 2600
Seattle, Washington 98101

Generated 8/29/2023 5:48:50 PM

JOB DESCRIPTION

Port of Tacoma - Wheeler Osgood

JOB NUMBER

580-129810-1

Eurofins Seattle

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization



Generated
8/29/2023 5:48:50 PM

Authorized for release by
Tracy Dutton, Client Relations Manager
Tracy.Dutton@et.eurofinsus.com
(253)248-4970



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Case Narrative

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Job ID: 580-129810-1

Laboratory: Eurofins Seattle

Narrative

Job Narrative 580-129810-1

Receipt

The samples were received on 7/24/2023 4:59 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 4.1° C and 5.8° C.

Receipt Exceptions

The COC lists sample #4 as containing 7 samples, but because the only analysis listed is for Archive and only 1 container was provided, it was logged as 1 container.

P94-SO-96-0-2-230724 (580-129810-1), P94-SO-96-4-5-230724 (580-129810-2), P94-SO-96-10-12-230724 (580-129810-3), P94-SO-96-15-16-230724 (580-129810-4), TB-230724 (580-129810-5), P94-SO-97-0-2-230724 (580-129810-6), P94-SO-97-4-5-230724 (580-129810-7), P94-SO-97-10-12-230724 (580-129810-8), P94-SO-95-0-2-230724 (580-129810-9), P94-SO-95-4-5-230724 (580-129810-10), P94-SO-95-9-10-230724 (580-129810-11), P94-GW-96-230724 (580-129810-12) and P94-SO-97-14-15-230724 (580-129810-13)

GC/MS VOA

Method 8260C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-349873.

Methods 8260C, 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-350508. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8260D: The CCV for analytical batch 580-432883 recovered outside control limits for the following analytes:

1,2-Dibromo-3-Chloropropane and Bromoform . 1,2-Dibromo-3-Chloropropane and Bromoform have been identified as poor performing analytes when analyzed using this method; therefore re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The method blank for analytical batch 580-432883 contained 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene and Hexachlorobutadiene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270E: The following sample was diluted due to the nature of the sample matrix: P94-SO-96-0-2-230724 (580-129810-1). Elevated reporting limits (RLs) are provided.

Method 8270E: Surrogate recovery for the following sample was outside control limits: P94-SO-96-0-2-230724 (580-129810-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270E: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 580-432699 and analytical batch 580-432870 recovered outside control limits for the following analyte: Benzoic acid.

Method 8270E: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 580-432699 and analytical batch 580-433011 recovered outside control limits for the following analytes: Benzoic acid.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method NWTPH-Dx: Continuing calibration verification (CCV) standard associated with batch 580-433444 recovered outside %Drift acceptance criteria for o-Terphenyl surrogate. The %Recovery is within acceptance criteria for the surrogate in the CCV and associated samples surrogates are not biased into passing criteria; therefore, the data are qualified and reported.

P94-SO-96-0-2-230724 (580-129810-1), (CCV 580-433444/33), (CCV 580-433444/42)

Case Narrative

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Job ID: 580-129810-1 (Continued)

Laboratory: Eurofins Seattle (Continued)

Method NWTPH-Dx: Continuing calibration verification (CCV) standard associated with batch 580-433779 recovered outside %Drift acceptance criteria for o-Terphenyl surrogate. The %Recovery is within acceptance criteria for the surrogate in the CCV and associated samples surrogates are not biased into passing criteria; therefore, the data are qualified and reported. P94-SO-96-10-12-230724 (580-129810-3), P94-SO-97-0-2-230724 (580-129810-6), P94-SO-97-10-12-230724 (580-129810-8) and (CCV 580-433779/42)

Method NWTPH-Dx: The continuing calibration verification (CCV) associated with batch 580-432801 recovered above the upper control limit for Motor Oil (>C24-C36). The quality control (QC) samples associated with this CCV were within acceptance limits for the affected analytes and the samples have been re-analyzed in batch 580-433779; therefore, the data have been reported. The associated samples are impacted: (CCV 580-432801/45) and (MB 580-432709/1-A).

Method 8082A: Surrogate recovery for the following samples were outside control limits: P94-SO-96-0-2-230724 (580-129810-1), P94-SO-96-10-12-230724 (580-129810-3), P94-SO-97-0-2-230724 (580-129810-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The following continuing calibration verification (CCV) standard associated with batch 580-434774 recovered outside acceptance criteria for %D for DCB Decachlorobiphenyl and Tetrachloro-m-xylene. Since the %Rec is within the acceptance criteria for the surrogate in the CCV and associated samples, the data have been reported. (CCV 580-434774/27) and (CCVIS 580-434774/1)

Method 8082A: The continuing calibration verification (CCV) associated with batch 580-434774 recovered above the upper control limit for PCB-1016, PCB-1221, PCB-1232 and PCB-1260. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: P94-SO-96-0-2-230724 (580-129810-1), P94-SO-96-10-12-230724 (580-129810-3), P94-SO-97-0-2-230724 (580-129810-6), P94-SO-97-10-12-230724 (580-129810-8), (CCV 580-434774/2), (CCV 580-434774/27) and (CCV 580-434774/5).

Method 8082A: The continuing calibration verification (CCV) associated with 580-434774 recovered high and outside the control limits for PCB-1221 on one column. Results are confirmed on both columns and reported from the passing column. The associated samples are: P94-SO-96-0-2-230724 (580-129810-1), P94-SO-96-10-12-230724 (580-129810-3), P94-SO-97-0-2-230724 (580-129810-6), P94-SO-97-10-12-230724 (580-129810-8) and (CCV 580-434774/31).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Dioxin

Method 8290A: The bracketing continuing calibration verification (CCV) associated with batch 320-701054 has an analyte with percent difference values that are between the method criteria of 20% to 25% deviation from the initial calibration curve. Per method guidelines, an average relative response factor (RRF) is calculated from the bracketing CCV and is used to quantitate any positive results in the associated samples for the affected analytes.

Method 8290A: The ending resolution check indicated that the instrument was at less than 10,000 resolution for m/z above 304.9824. The samples were evaluated for high mass fragmentation breakthrough and none was found. There is no adverse impact on the data. The following samples are impacted: P94-SO-96-0-2-230724 (580-129810-1), P94-SO-96-10-12-230724 (580-129810-3), (CCV 320-701054/13) and (CCV 320-701054/2)

Method 8290A: The ending resolution check for analytical batch 320-701721 indicates the instrument finished with less than 8,000 resolution due to low Perfluorokerosene (PFK). The following samples have been evaluated for impact: P94-SO-97-0-2-230724 (580-129810-6), (CCV 320-701721/2), (CCV 320-701721/5) and (WDM 320-701721/1). No evidence of breakthrough or fragmentation was observed. The slight loss of resolution has an insignificant impact on the data reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010D: The method blank for preparation batch 580-433405 and analytical batch 580-433726 contained Cu above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of

Case Narrative

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Job ID: 580-129810-1 (Continued)

Laboratory: Eurofins Seattle (Continued)

samples was not performed.

Method 6010D: The continuing calibration verification (CCV) associated with batch 580-433726 recovered above the upper control limit for Se. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (LCS 580-433405/25-A) and (LCSD 580-433405/26-A).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

Method 5035: The following samples were provided to the laboratory with a significantly different initial weight than that required by the reference method: P94-SO-96-0-2-230724 (580-129810-1), P94-SO-96-10-12-230724 (580-129810-3), P94-SO-97-0-2-230724 (580-129810-6) and P94-SO-97-10-12-230724 (580-129810-8). Deviations in the weight by more than 20% may affect reporting limits and potentially method performance. The method specifies 10g. The amount provided was above this range.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Dioxin Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Dioxin

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control

Definitions/Glossary

Client: Anchor QEA LLC

Job ID: 580-129810-1

Project/Site: Port of Tacoma - Wheeler Osgood

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-SO-96-0-2-230724

Lab Sample ID: 580-129810-1

Date Collected: 07/24/23 10:35

Matrix: Solid

Date Received: 07/24/23 16:59

Percent Solids: 95.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00053	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
1,1,1-Trichloroethane	ND		0.00053	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
1,1,2,2-Tetrachloroethane	ND		0.0011	0.00029	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
1,1,2-Trichloroethane	ND		0.00053	0.00024	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
1,1-Dichloroethane	ND		0.00053	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
1,1-Dichloroethene	ND		0.00053	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
1,1-Dichloropropene	ND		0.0011	0.00020	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
1,2,3-Trichlorobenzene	ND		0.0011	0.00020	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
1,2,3-Trichloropropane	ND		0.0011	0.00022	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
1,2,4-Trichlorobenzene	ND		0.0011	0.00022	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
1,2,4-Trimethylbenzene	ND		0.0011	0.00032	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
1,2-Dibromo-3-Chloropropane	ND		0.0053	0.0018	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
1,2-Dibromoethane	ND		0.00053	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
1,2-Dichlorobenzene	ND		0.00053	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
1,2-Dichloroethane	ND		0.00053	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
1,2-Dichloropropane	ND		0.00053	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
1,3,5-Trimethylbenzene	ND		0.0011	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
1,3-Dichlorobenzene	ND		0.00053	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
1,3-Dichloropropane	ND		0.00053	0.00016	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
1,4-Dichlorobenzene	ND		0.00053	0.00016	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
2,2-Dichloropropane	ND		0.0026	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
2-Chlorotoluene	ND		0.00053	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
4-Chlorotoluene	ND		0.00053	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
4-Isopropyltoluene	ND		0.00053	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
Benzene	ND		0.00053	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
Bromobenzene	ND		0.00053	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
Bromochloromethane	ND		0.0011	0.00023	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
Bromodichloromethane	ND		0.00053	0.00017	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
Bromoform	ND		0.0026	0.00070	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
Bromomethane	ND		0.011	0.0035	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
Carbon tetrachloride	ND		0.00053	0.00016	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
Chlorobenzene	ND		0.00053	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
Chloroethane	ND		0.0011	0.00039	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
Chloroform	ND		0.00053	0.00031	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
Chloromethane	ND		0.011	0.00081	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
cis-1,2-Dichloroethene	ND		0.00053	0.00018	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
cis-1,3-Dichloropropene	ND		0.00053	0.00018	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
Dibromochloromethane	ND		0.0011	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
Dibromomethane	ND		0.00053	0.00016	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
Dichlorodifluoromethane	ND		0.0011	0.00024	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
Ethylbenzene	ND		0.00053	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
Hexachlorobutadiene	ND		0.0026	0.00088	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
Isopropylbenzene	ND		0.00053	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
Methyl tert-butyl ether	ND		0.0011	0.000099	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
Methylene Chloride	ND		0.0053	0.0016	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
m-Xylene & p-Xylene	ND		0.0011	0.00025	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
Naphthalene	ND		0.0053	0.0021	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
n-Butylbenzene	ND		0.00053	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
N-Propylbenzene	ND		0.0011	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1

Eurofins Seattle

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-SO-96-0-2-230724

Lab Sample ID: 580-129810-1

Date Collected: 07/24/23 10:35

Matrix: Solid

Date Received: 07/24/23 16:59

Percent Solids: 95.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.00053	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
sec-Butylbenzene	ND		0.00053	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
Styrene	ND		0.00053	0.00017	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
t-Butylbenzene	ND		0.00053	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
Tetrachloroethene	ND		0.00053	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
Toluene	ND		0.00053	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
trans-1,2-Dichloroethene	ND		0.00053	0.00016	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
trans-1,3-Dichloropropene	ND		0.0011	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
Trichloroethene	ND		0.0011	0.00020	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
Trichlorofluoromethane	ND		0.0053	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1
Vinyl chloride	ND		0.00053	0.00020	mg/Kg	☆	07/28/23 08:34	08/01/23 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		32 - 179	07/28/23 08:34	08/01/23 00:44	1
4-Bromofluorobenzene (Surr)	102		80 - 120	07/28/23 08:34	08/01/23 00:44	1
Toluene-d8 (Surr)	103		80 - 120	07/28/23 08:34	08/01/23 00:44	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	3.1		2.4	0.34	mg/Kg	☆	07/31/23 14:15	07/31/23 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		66 - 125	07/31/23 14:15	07/31/23 19:17	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.50	0.060	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
1,2-Dichlorobenzene	ND		0.50	0.050	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
1,3-Dichlorobenzene	ND		0.50	0.048	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
1,4-Dichlorobenzene	ND		0.50	0.083	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
1-Methylnaphthalene	ND		0.30	0.050	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
2,4,5-Trichlorophenol	ND		2.0	0.081	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
2,4,6-Trichlorophenol	ND		1.5	0.13	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
2,4-Dichlorophenol	ND		2.0	0.28	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
2,4-Dimethylphenol	ND		2.0	0.60	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
2,4-Dinitrophenol	ND		20	5.9	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
2,4-Dinitrotoluene	ND		2.0	0.43	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
2,6-Dinitrotoluene	ND		1.5	0.15	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
2-Chloronaphthalene	ND		0.25	0.050	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
2-Chlorophenol	ND		2.0	0.040	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
2-Methylnaphthalene	ND		0.50	0.088	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
2-Methylphenol	ND		1.5	0.098	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
2-Nitroaniline	ND		1.0	0.15	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
2-Nitrophenol	ND		2.0	0.062	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
3 & 4 Methylphenol	ND		2.0	0.15	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
3,3'-Dichlorobenzidine	ND		4.0	0.84	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
3-Nitroaniline	ND		3.0	1.0	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
4,6-Dinitro-2-methylphenol	ND		10	1.0	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
4-Bromophenyl phenyl ether	ND		2.0	0.091	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
4-Chloro-3-methylphenol	ND		1.5	0.33	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-SO-96-0-2-230724

Lab Sample ID: 580-129810-1

Date Collected: 07/24/23 10:35

Matrix: Solid

Date Received: 07/24/23 16:59

Percent Solids: 95.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		15	1.3	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
4-Chlorophenyl phenyl ether	ND		2.0	0.063	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
4-Nitroaniline	ND		1.5	0.50	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
4-Nitrophenol	ND		20	1.7	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Acenaphthene	ND		0.40	0.046	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Acenaphthylene	ND		0.25	0.050	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Anthracene	ND		0.60	0.16	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Benzo[a]anthracene	ND		0.40	0.11	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Benzo[a]pyrene	0.14	J	0.60	0.13	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Benzo[b]fluoranthene	0.23	J	0.40	0.10	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Benzo[g,h,i]perylene	0.38	J	0.60	0.18	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Benzo[k]fluoranthene	ND		0.60	0.14	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Benzoic acid	ND	*1	40	12	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Benzyl alcohol	ND		10	0.50	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Bis(2-chloroethoxy)methane	ND		2.0	0.18	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Bis(2-chloroethyl)ether	ND		1.0	0.077	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Bis(2-ethylhexyl) phthalate	ND		6.0	0.71	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
bis(chloroisopropyl) ether	ND		2.0	0.061	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Butyl benzyl phthalate	ND		2.0	0.51	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Carbazole	ND		1.5	0.073	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Chrysene	0.22	J	0.60	0.13	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Dibenz(a,h)anthracene	ND		0.50	0.12	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Dibenzofuran	ND		1.5	0.059	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Diethyl phthalate	ND		4.0	0.22	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Dimethyl phthalate	ND		1.5	0.050	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Di-n-butyl phthalate	ND		5.0	0.27	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Di-n-octyl phthalate	ND		1.5	0.12	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Fluoranthene	0.21	J	0.40	0.12	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Fluorene	ND		0.25	0.050	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Hexachlorobenzene	ND		0.50	0.15	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Hexachlorobutadiene	ND		0.50	0.15	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Hexachlorocyclopentadiene	ND		1.0	0.077	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Hexachloroethane	ND		1.5	0.043	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Indeno[1,2,3-cd]pyrene	ND		0.40	0.12	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Isophorone	ND		1.5	0.084	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Naphthalene	ND		0.25	0.050	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Nitrobenzene	ND		2.0	0.20	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
N-Nitrosodi-n-propylamine	ND		2.0	0.22	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
N-Nitrosodiphenylamine	ND		0.60	0.080	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Pentachlorophenol	ND		4.0	0.63	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Phenanthrene	0.13	J	0.60	0.058	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Phenol	ND		1.5	0.23	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10
Pyrene	0.25	J	0.60	0.13	mg/Kg	☆	07/26/23 10:22	07/27/23 23:24	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	20	S1-	62 - 122	07/26/23 10:22	07/27/23 23:24	10
2-Fluorobiphenyl	84		64 - 120	07/26/23 10:22	07/27/23 23:24	10
2-Fluorophenol (Surr)	90		58 - 120	07/26/23 10:22	07/27/23 23:24	10
Nitrobenzene-d5 (Surr)	81		63 - 120	07/26/23 10:22	07/27/23 23:24	10
Phenol-d5 (Surr)	67		59 - 120	07/26/23 10:22	07/27/23 23:24	10

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-SO-96-0-2-230724

Lab Sample ID: 580-129810-1

Date Collected: 07/24/23 10:35

Matrix: Solid

Date Received: 07/24/23 16:59

Percent Solids: 95.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	93		73 - 125	07/26/23 10:22	07/27/23 23:24	10

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.020	0.0074	mg/Kg	☆	08/01/23 10:10	08/16/23 01:25	1
PCB-1221	ND		0.020	0.012	mg/Kg	☆	08/01/23 10:10	08/16/23 01:25	1
PCB-1232	ND		0.020	0.0049	mg/Kg	☆	08/01/23 10:10	08/16/23 01:25	1
PCB-1242	ND		0.020	0.0080	mg/Kg	☆	08/01/23 10:10	08/16/23 01:25	1
PCB-1248	ND		0.020	0.0070	mg/Kg	☆	08/01/23 10:10	08/16/23 01:25	1
PCB-1254	ND		0.020	0.0090	mg/Kg	☆	08/01/23 10:10	08/16/23 01:25	1
PCB-1260	0.0074	J	0.020	0.0074	mg/Kg	☆	08/01/23 10:10	08/16/23 01:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	40	S1-	44 - 135	08/01/23 10:10	08/16/23 01:25	1
Tetrachloro-m-xylene	75		48 - 150	08/01/23 10:10	08/16/23 01:25	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	390		250	60	mg/Kg	☆	07/28/23 12:00	08/02/23 12:14	5
Motor Oil (>C24-C36)	3000		250	86	mg/Kg	☆	07/28/23 12:00	08/02/23 12:14	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	97		50 - 150	07/28/23 12:00	08/02/23 12:14	5

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	1.8	q	1.0	0.46	pg/g	☆	07/27/23 06:55	08/22/23 19:57	1
1,2,3,7,8-PeCDD	6.4	B	5.1	0.93	pg/g	☆	07/27/23 06:55	08/22/23 19:57	1
1,2,3,7,8-PeCDF	4.4	J B	5.1	0.22	pg/g	☆	07/27/23 06:55	08/22/23 19:57	1
2,3,4,7,8-PeCDF	5.5	B	5.1	0.22	pg/g	☆	07/27/23 06:55	08/22/23 19:57	1
1,2,3,4,7,8-HxCDD	6.5	B	5.1	0.28	pg/g	☆	07/27/23 06:55	08/22/23 19:57	1
1,2,3,6,7,8-HxCDD	17	B	5.1	0.32	pg/g	☆	07/27/23 06:55	08/22/23 19:57	1
1,2,3,7,8,9-HxCDD	12	B	5.1	0.28	pg/g	☆	07/27/23 06:55	08/22/23 19:57	1
1,2,3,4,7,8-HxCDF	4.6	J B	5.1	0.31	pg/g	☆	07/27/23 06:55	08/22/23 19:57	1
1,2,3,6,7,8-HxCDF	4.5	J B	5.1	0.33	pg/g	☆	07/27/23 06:55	08/22/23 19:57	1
1,2,3,7,8,9-HxCDF	0.43	J B	5.1	0.32	pg/g	☆	07/27/23 06:55	08/22/23 19:57	1
2,3,4,6,7,8-HxCDF	3.5	J B	5.1	0.33	pg/g	☆	07/27/23 06:55	08/22/23 19:57	1
1,2,3,4,6,7,8-HpCDD	170	B	5.1	0.42	pg/g	☆	07/27/23 06:55	08/22/23 19:57	1
1,2,3,4,6,7,8-HpCDF	41	B	5.1	0.50	pg/g	☆	07/27/23 06:55	08/22/23 19:57	1
1,2,3,4,7,8,9-HpCDF	1.8	J B	5.1	0.57	pg/g	☆	07/27/23 06:55	08/22/23 19:57	1
OCDD	1000	B	10	0.83	pg/g	☆	07/27/23 06:55	08/22/23 19:57	1
OCDF	55	B	10	0.27	pg/g	☆	07/27/23 06:55	08/22/23 19:57	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	72		40 - 135	07/27/23 06:55	08/22/23 19:57	1
13C-2,3,7,8-TCDF	72		40 - 135	07/27/23 06:55	08/22/23 19:57	1
13C-1,2,3,7,8-PeCDD	81		40 - 135	07/27/23 06:55	08/22/23 19:57	1
13C-1,2,3,7,8-PeCDF	74		40 - 135	07/27/23 06:55	08/22/23 19:57	1
13C-2,3,4,7,8-PeCDF	82		40 - 135	07/27/23 06:55	08/22/23 19:57	1
13C-1,2,3,4,7,8-HxCDD	79		40 - 135	07/27/23 06:55	08/22/23 19:57	1
13C-1,2,3,6,7,8-HxCDD	69		40 - 135	07/27/23 06:55	08/22/23 19:57	1

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-SO-96-0-2-230724

Lab Sample ID: 580-129810-1

Date Collected: 07/24/23 10:35

Matrix: Solid

Date Received: 07/24/23 16:59

Percent Solids: 95.5

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,7,8-HxCDF	84		40 - 135	07/27/23 06:55	08/22/23 19:57	1
13C-2,3,4,6,7,8-HxCDF	70		40 - 135	07/27/23 06:55	08/22/23 19:57	1
13C-1,2,3,6,7,8-HxCDF	71		40 - 135	07/27/23 06:55	08/22/23 19:57	1
13C-1,2,3,7,8,9-HxCDF	64		40 - 135	07/27/23 06:55	08/22/23 19:57	1
13C-1,2,3,4,6,7,8-HpCDD	56		40 - 135	07/27/23 06:55	08/22/23 19:57	1
13C-1,2,3,4,6,7,8-HpCDF	60		40 - 135	07/27/23 06:55	08/22/23 19:57	1
13C-1,2,3,4,7,8,9-HpCDF	49		40 - 135	07/27/23 06:55	08/22/23 19:57	1
13C-OCDD	46		40 - 135	07/27/23 06:55	08/22/23 19:57	1
13C-OCDF	53		40 - 135	07/27/23 06:55	08/22/23 19:57	1

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	7.7	B	1.0	0.23	pg/g	☼	07/27/23 06:55	08/23/23 11:34	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	78		40 - 135				07/27/23 06:55	08/23/23 11:34	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.0		2.1	0.18	mg/Kg	☆	08/01/23 13:49	08/03/23 20:57	1
Arsenic	23		2.1	0.17	mg/Kg	☆	08/01/23 13:49	08/03/23 20:57	1
Beryllium	0.24	J	0.69	0.048	mg/Kg	☆	08/01/23 13:49	08/03/23 20:57	1
Cadmium	0.63	J	0.69	0.034	mg/Kg	☆	08/01/23 13:49	08/03/23 20:57	1
Chromium	30		0.90	0.15	mg/Kg	☆	08/01/23 13:49	08/03/23 20:57	1
Copper	39	B	1.7	0.28	mg/Kg	☆	08/01/23 13:49	08/03/23 20:57	1
Lead	59		1.0	0.15	mg/Kg	☆	08/01/23 13:49	08/03/23 20:57	1
Nickel	24		0.69	0.071	mg/Kg	☆	08/01/23 13:49	08/03/23 20:57	1
Selenium	ND		3.5	0.27	mg/Kg	☆	08/01/23 13:49	08/03/23 20:57	1
Silver	ND		1.7	0.39	mg/Kg	☆	08/01/23 13:49	08/03/23 20:57	1
Zinc	110		2.8	0.66	mg/Kg	☆	08/01/23 13:49	08/03/23 20:57	1

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.020	0.0060	mg/Kg	☆	08/07/23 11:52	08/08/23 13:55	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (SM22 2540G)	95.5		0.1	0.1	%			07/27/23 11:03	1
Percent Moisture (SM22 2540G)	4.5		0.1	0.1	%			07/27/23 11:03	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-SO-96-10-12-230724

Lab Sample ID: 580-129810-3

Date Collected: 07/24/23 11:00

Matrix: Solid

Date Received: 07/24/23 16:59

Percent Solids: 85.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00046	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
1,1,1-Trichloroethane	ND		0.00046	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
1,1,2,2-Tetrachloroethane	ND		0.00091	0.00025	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
1,1,2-Trichloroethane	ND		0.00046	0.00021	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
1,1-Dichloroethane	ND		0.00046	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
1,1-Dichloroethene	ND		0.00046	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
1,1-Dichloropropene	ND		0.00091	0.00018	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
1,2,3-Trichlorobenzene	ND		0.00091	0.00017	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
1,2,3-Trichloropropane	ND		0.00091	0.00019	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
1,2,4-Trichlorobenzene	ND		0.00091	0.00019	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
1,2,4-Trimethylbenzene	ND		0.00091	0.00027	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
1,2-Dibromo-3-Chloropropane	ND		0.0046	0.0015	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
1,2-Dibromoethane	ND		0.00046	0.000094	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
1,2-Dichlorobenzene	ND		0.00046	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
1,2-Dichloroethane	ND		0.00046	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
1,2-Dichloropropane	ND		0.00046	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
1,3,5-Trimethylbenzene	ND		0.00091	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
1,3-Dichlorobenzene	ND		0.00046	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
1,3-Dichloropropane	ND		0.00046	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
1,4-Dichlorobenzene	ND		0.00046	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
2,2-Dichloropropane	ND		0.0023	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
2-Chlorotoluene	ND		0.00046	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
4-Chlorotoluene	ND		0.00046	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
4-Isopropyltoluene	ND		0.00046	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
Benzene	0.00012	J	0.00046	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
Bromobenzene	ND		0.00046	0.000095	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
Bromochloromethane	ND		0.00091	0.00020	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
Bromodichloromethane	ND		0.00046	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
Bromoform	ND		0.0023	0.00060	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
Bromomethane	ND		0.0091	0.0030	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
Carbon tetrachloride	ND		0.00046	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
Chlorobenzene	ND		0.00046	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
Chloroethane	ND		0.00091	0.00034	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
Chloroform	ND		0.00046	0.00027	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
Chloromethane	ND		0.0091	0.00070	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
cis-1,2-Dichloroethene	ND		0.00046	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
cis-1,3-Dichloropropene	ND		0.00046	0.00016	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
Dibromochloromethane	ND		0.00091	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
Dibromomethane	ND		0.00046	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
Dichlorodifluoromethane	ND		0.00091	0.00021	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
Ethylbenzene	ND		0.00046	0.000094	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
Hexachlorobutadiene	ND		0.0023	0.00076	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
Isopropylbenzene	ND		0.00046	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
Methyl tert-butyl ether	ND		0.00091	0.000086	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
Methylene Chloride	ND		0.0046	0.0014	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
m-Xylene & p-Xylene	ND		0.00091	0.00022	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
Naphthalene	ND		0.0046	0.0018	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
n-Butylbenzene	ND		0.00046	0.000096	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
N-Propylbenzene	ND		0.00091	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-SO-96-10-12-230724

Lab Sample ID: 580-129810-3

Date Collected: 07/24/23 11:00

Matrix: Solid

Date Received: 07/24/23 16:59

Percent Solids: 85.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.00046	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
sec-Butylbenzene	ND		0.00046	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
Styrene	ND		0.00046	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
t-Butylbenzene	ND		0.00046	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
Tetrachloroethene	ND		0.00046	0.00010	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
Toluene	ND		0.00046	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
trans-1,2-Dichloroethene	ND		0.00046	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
trans-1,3-Dichloropropene	ND		0.00091	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
Trichloroethene	ND		0.00091	0.00018	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
Trichlorofluoromethane	ND		0.0046	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1
Vinyl chloride	ND		0.00046	0.00017	mg/Kg	☆	07/28/23 08:34	08/01/23 01:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	132		32 - 179	07/28/23 08:34	08/01/23 01:05	1
4-Bromofluorobenzene (Surr)	102		80 - 120	07/28/23 08:34	08/01/23 01:05	1
Toluene-d8 (Surr)	102		80 - 120	07/28/23 08:34	08/01/23 01:05	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	0.74	J	2.5	0.35	mg/Kg	☆	07/31/23 14:15	07/31/23 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		66 - 125	07/31/23 14:15	07/31/23 20:05	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.055	0.0066	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
1,2-Dichlorobenzene	ND		0.055	0.0055	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
1,3-Dichlorobenzene	ND		0.055	0.0053	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
1,4-Dichlorobenzene	ND		0.055	0.0091	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
1-Methylnaphthalene	ND		0.033	0.0055	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
2,4,5-Trichlorophenol	ND		0.22	0.0089	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
2,4,6-Trichlorophenol	ND		0.16	0.014	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
2,4-Dichlorophenol	ND		0.22	0.031	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
2,4-Dimethylphenol	ND		0.22	0.066	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
2,4-Dinitrophenol	ND		2.2	0.64	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
2,4-Dinitrotoluene	ND		0.22	0.047	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
2,6-Dinitrotoluene	ND		0.16	0.016	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
2-Chloronaphthalene	ND		0.027	0.0055	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
2-Chlorophenol	ND		0.22	0.0044	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
2-Methylnaphthalene	ND		0.055	0.0096	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
2-Methylphenol	ND		0.16	0.011	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
2-Nitroaniline	ND		0.11	0.016	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
2-Nitrophenol	ND		0.22	0.0068	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
3 & 4 Methylphenol	ND		0.22	0.016	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
3,3'-Dichlorobenzidine	ND		0.44	0.092	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
3-Nitroaniline	ND		0.33	0.11	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
4,6-Dinitro-2-methylphenol	ND		1.1	0.11	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
4-Bromophenyl phenyl ether	ND		0.22	0.010	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
4-Chloro-3-methylphenol	ND		0.16	0.036	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-SO-96-10-12-230724

Lab Sample ID: 580-129810-3

Date Collected: 07/24/23 11:00

Matrix: Solid

Date Received: 07/24/23 16:59

Percent Solids: 85.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		1.6	0.15	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
4-Chlorophenyl phenyl ether	ND		0.22	0.0069	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
4-Nitroaniline	ND		0.16	0.055	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
4-Nitrophenol	ND		2.2	0.19	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Acenaphthene	ND		0.044	0.0050	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Acenaphthylene	ND		0.027	0.0055	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Anthracene	ND		0.066	0.018	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Benzo[a]anthracene	ND		0.044	0.012	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Benzo[a]pyrene	0.015	J	0.066	0.014	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Benzo[b]fluoranthene	ND		0.044	0.011	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Benzo[g,h,i]perylene	0.028	J	0.066	0.020	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Benzo[k]fluoranthene	ND		0.066	0.015	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Benzoic acid	ND	*1	4.4	1.3	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Benzy alcohol	0.33	J	1.1	0.055	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Bis(2-chloroethoxy)methane	ND		0.22	0.020	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Bis(2-chloroethyl)ether	ND		0.11	0.0084	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Bis(2-ethylhexyl) phthalate	ND		0.66	0.078	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
bis(chloroisopropyl) ether	ND		0.22	0.0067	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Butyl benzyl phthalate	ND		0.22	0.056	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Carbazole	ND		0.16	0.0080	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Chrysene	ND		0.066	0.014	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Dibenz(a,h)anthracene	ND		0.055	0.013	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Dibenzofuran	ND		0.16	0.0065	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Diethyl phthalate	ND		0.44	0.024	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Dimethyl phthalate	ND		0.16	0.0055	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Di-n-butyl phthalate	ND		0.55	0.030	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Di-n-octyl phthalate	ND		0.16	0.013	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Fluoranthene	0.015	J	0.044	0.013	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Fluorene	ND		0.027	0.0055	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Hexachlorobenzene	ND		0.055	0.016	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Hexachlorobutadiene	ND		0.055	0.016	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Hexachlorocyclopentadiene	ND		0.11	0.0084	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Hexachloroethane	ND		0.16	0.0047	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Indeno[1,2,3-cd]pyrene	ND		0.044	0.013	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Isophorone	ND		0.16	0.0092	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Naphthalene	0.024	J	0.027	0.0055	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Nitrobenzene	ND		0.22	0.022	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
N-Nitrosodi-n-propylamine	ND		0.22	0.024	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
N-Nitrosodiphenylamine	ND		0.066	0.0088	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Pentachlorophenol	ND		0.44	0.069	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Phenanthrene	0.015	J	0.066	0.0063	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Phenol	ND		0.16	0.025	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1
Pyrene	0.022	J	0.066	0.014	mg/Kg	☆	07/26/23 10:22	07/27/23 23:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		62 - 122	07/26/23 10:22	07/27/23 23:49	1
2-Fluorobiphenyl	91		64 - 120	07/26/23 10:22	07/27/23 23:49	1
2-Fluorophenol (Surr)	79		58 - 120	07/26/23 10:22	07/27/23 23:49	1
Nitrobenzene-d5 (Surr)	90		63 - 120	07/26/23 10:22	07/27/23 23:49	1
Phenol-d5 (Surr)	76		59 - 120	07/26/23 10:22	07/27/23 23:49	1

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-SO-96-10-12-230724

Lab Sample ID: 580-129810-3

Date Collected: 07/24/23 11:00

Matrix: Solid

Date Received: 07/24/23 16:59

Percent Solids: 85.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	90		73 - 125	07/26/23 10:22	07/27/23 23:49	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.022	0.0080	mg/Kg	✱	08/01/23 10:10	08/16/23 01:41	1
PCB-1221	ND		0.022	0.013	mg/Kg	✱	08/01/23 10:10	08/16/23 01:41	1
PCB-1232	ND		0.022	0.0053	mg/Kg	✱	08/01/23 10:10	08/16/23 01:41	1
PCB-1242	ND		0.022	0.0087	mg/Kg	✱	08/01/23 10:10	08/16/23 01:41	1
PCB-1248	ND		0.022	0.0076	mg/Kg	✱	08/01/23 10:10	08/16/23 01:41	1
PCB-1254	ND		0.022	0.0098	mg/Kg	✱	08/01/23 10:10	08/16/23 01:41	1
PCB-1260	ND		0.022	0.0080	mg/Kg	✱	08/01/23 10:10	08/16/23 01:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	40	S1-	44 - 135	08/01/23 10:10	08/16/23 01:41	1
Tetrachloro-m-xylene	75		48 - 150	08/01/23 10:10	08/16/23 01:41	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	23	J	54	13	mg/Kg	✱	07/26/23 11:20	08/05/23 06:09	1
Motor Oil (>C24-C36)	220		54	19	mg/Kg	✱	07/26/23 11:20	08/05/23 06:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	90		50 - 150	07/26/23 11:20	08/05/23 06:09	1

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.16	J q	1.2	0.12	pg/g	✱	07/27/23 06:55	08/22/23 20:45	1
2,3,7,8-TCDF	0.44	J B	1.2	0.060	pg/g	✱	07/27/23 06:55	08/22/23 20:45	1
1,2,3,7,8-PeCDD	0.22	J B	5.9	0.11	pg/g	✱	07/27/23 06:55	08/22/23 20:45	1
1,2,3,7,8-PeCDF	0.17	J B	5.9	0.051	pg/g	✱	07/27/23 06:55	08/22/23 20:45	1
2,3,4,7,8-PeCDF	0.18	J B	5.9	0.050	pg/g	✱	07/27/23 06:55	08/22/23 20:45	1
1,2,3,4,7,8-HxCDD	0.32	J B q	5.9	0.078	pg/g	✱	07/27/23 06:55	08/22/23 20:45	1
1,2,3,6,7,8-HxCDD	0.35	J B	5.9	0.088	pg/g	✱	07/27/23 06:55	08/22/23 20:45	1
1,2,3,7,8,9-HxCDD	0.33	J B	5.9	0.076	pg/g	✱	07/27/23 06:55	08/22/23 20:45	1
1,2,3,4,7,8-HxCDF	0.20	J B	5.9	0.050	pg/g	✱	07/27/23 06:55	08/22/23 20:45	1
1,2,3,6,7,8-HxCDF	0.14	J B q	5.9	0.055	pg/g	✱	07/27/23 06:55	08/22/23 20:45	1
1,2,3,7,8,9-HxCDF	0.15	J B	5.9	0.049	pg/g	✱	07/27/23 06:55	08/22/23 20:45	1
2,3,4,6,7,8-HxCDF	0.14	J B q	5.9	0.051	pg/g	✱	07/27/23 06:55	08/22/23 20:45	1
1,2,3,4,6,7,8-HpCDD	2.6	J B	5.9	0.11	pg/g	✱	07/27/23 06:55	08/22/23 20:45	1
1,2,3,4,6,7,8-HpCDF	0.72	J B	5.9	0.28	pg/g	✱	07/27/23 06:55	08/22/23 20:45	1
1,2,3,4,7,8,9-HpCDF	ND		5.9	0.25	pg/g	✱	07/27/23 06:55	08/22/23 20:45	1
OCDD	14	B	12	0.20	pg/g	✱	07/27/23 06:55	08/22/23 20:45	1
OCDF	1.1	J B	12	0.12	pg/g	✱	07/27/23 06:55	08/22/23 20:45	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	74		40 - 135	07/27/23 06:55	08/22/23 20:45	1
13C-2,3,7,8-TCDF	72		40 - 135	07/27/23 06:55	08/22/23 20:45	1
13C-1,2,3,7,8-PeCDD	83		40 - 135	07/27/23 06:55	08/22/23 20:45	1
13C-1,2,3,7,8-PeCDF	76		40 - 135	07/27/23 06:55	08/22/23 20:45	1
13C-2,3,4,7,8-PeCDF	86		40 - 135	07/27/23 06:55	08/22/23 20:45	1
13C-1,2,3,4,7,8-HxCDD	87		40 - 135	07/27/23 06:55	08/22/23 20:45	1

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-SO-96-10-12-230724

Lab Sample ID: 580-129810-3

Date Collected: 07/24/23 11:00

Matrix: Solid

Date Received: 07/24/23 16:59

Percent Solids: 85.1

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDD	75		40 - 135	07/27/23 06:55	08/22/23 20:45	1
13C-1,2,3,4,7,8-HxCDF	88		40 - 135	07/27/23 06:55	08/22/23 20:45	1
13C-2,3,4,6,7,8-HxCDF	78		40 - 135	07/27/23 06:55	08/22/23 20:45	1
13C-1,2,3,6,7,8-HxCDF	75		40 - 135	07/27/23 06:55	08/22/23 20:45	1
13C-1,2,3,7,8,9-HxCDF	71		40 - 135	07/27/23 06:55	08/22/23 20:45	1
13C-1,2,3,4,6,7,8-HpCDD	72		40 - 135	07/27/23 06:55	08/22/23 20:45	1
13C-1,2,3,4,6,7,8-HpCDF	73		40 - 135	07/27/23 06:55	08/22/23 20:45	1
13C-1,2,3,4,7,8,9-HpCDF	80		40 - 135	07/27/23 06:55	08/22/23 20:45	1
13C-OCDD	79		40 - 135	07/27/23 06:55	08/22/23 20:45	1
13C-OCDF	84		40 - 135	07/27/23 06:55	08/22/23 20:45	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	J	2.4	0.21	mg/Kg	✱	08/01/23 13:49	08/03/23 21:00	1
Arsenic	2.2	J	2.4	0.20	mg/Kg	✱	08/01/23 13:49	08/03/23 21:00	1
Beryllium	0.12	J	0.80	0.056	mg/Kg	✱	08/01/23 13:49	08/03/23 21:00	1
Cadmium	0.23	J	0.80	0.039	mg/Kg	✱	08/01/23 13:49	08/03/23 21:00	1
Chromium	18		1.0	0.17	mg/Kg	✱	08/01/23 13:49	08/03/23 21:00	1
Copper	12	B	2.0	0.32	mg/Kg	✱	08/01/23 13:49	08/03/23 21:00	1
Lead	3.9		1.2	0.18	mg/Kg	✱	08/01/23 13:49	08/03/23 21:00	1
Nickel	9.5		0.80	0.082	mg/Kg	✱	08/01/23 13:49	08/03/23 21:00	1
Selenium	ND		4.0	0.32	mg/Kg	✱	08/01/23 13:49	08/03/23 21:00	1
Silver	ND		2.0	0.45	mg/Kg	✱	08/01/23 13:49	08/03/23 21:00	1
Zinc	29		3.2	0.76	mg/Kg	✱	08/01/23 13:49	08/03/23 21:00	1

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.023	0.0069	mg/Kg	✱	08/07/23 11:52	08/08/23 13:57	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (SM22 2540G)	85.1		0.1	0.1	%			07/27/23 11:03	1
Percent Moisture (SM22 2540G)	14.9		0.1	0.1	%			07/27/23 11:03	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: TB-230724

Lab Sample ID: 580-129810-5

Date Collected: 07/24/23 07:00

Matrix: Water

Date Received: 07/24/23 16:59

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.038	ug/L			07/27/23 05:17	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			07/27/23 05:17	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			07/27/23 05:17	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			07/27/23 05:17	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			07/27/23 05:17	1
1,1-Dichloroethene	ND		0.20	0.035	ug/L			07/27/23 05:17	1
1,1-Dichloropropene	ND		0.20	0.084	ug/L			07/27/23 05:17	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			07/27/23 05:17	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			07/27/23 05:17	1
1,2,4-Trichlorobenzene	ND		0.50	0.17	ug/L			07/27/23 05:17	1
1,2,4-Trimethylbenzene	ND		0.50	0.20	ug/L			07/27/23 05:17	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.17	ug/L			07/27/23 05:17	1
1,2-Dichlorobenzene	ND		0.30	0.038	ug/L			07/27/23 05:17	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			07/27/23 05:17	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			07/27/23 05:17	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			07/27/23 05:17	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			07/27/23 05:17	1
1,3-Dichloropropane	ND		0.20	0.025	ug/L			07/27/23 05:17	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			07/27/23 05:17	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			07/27/23 05:17	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			07/27/23 05:17	1
4-Chlorotoluene	ND		0.30	0.12	ug/L			07/27/23 05:17	1
4-Isopropyltoluene	ND		0.50	0.15	ug/L			07/27/23 05:17	1
Benzene	ND		0.20	0.030	ug/L			07/27/23 05:17	1
Bromobenzene	ND		0.20	0.038	ug/L			07/27/23 05:17	1
Bromoform	ND		0.50	0.16	ug/L			07/27/23 05:17	1
Bromomethane	ND		0.50	0.13	ug/L			07/27/23 05:17	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			07/27/23 05:17	1
Chlorobenzene	ND		0.20	0.060	ug/L			07/27/23 05:17	1
Chlorobromomethane	ND		0.20	0.050	ug/L			07/27/23 05:17	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			07/27/23 05:17	1
Chloroethane	ND		0.50	0.096	ug/L			07/27/23 05:17	1
Chloroform	ND		0.20	0.030	ug/L			07/27/23 05:17	1
Chloromethane	ND		0.50	0.14	ug/L			07/27/23 05:17	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			07/27/23 05:17	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			07/27/23 05:17	1
Dibromomethane	ND		0.20	0.062	ug/L			07/27/23 05:17	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			07/27/23 05:17	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			07/27/23 05:17	1
Ethylbenzene	ND		0.20	0.030	ug/L			07/27/23 05:17	1
Ethylene Dibromide	ND		0.10	0.025	ug/L			07/27/23 05:17	1
Hexachlorobutadiene	ND		0.50	0.067	ug/L			07/27/23 05:17	1
Isopropylbenzene	ND		1.0	0.19	ug/L			07/27/23 05:17	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			07/27/23 05:17	1
Methylene Chloride	ND		5.0	1.2	ug/L			07/27/23 05:17	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			07/27/23 05:17	1
Naphthalene	ND		1.0	0.22	ug/L			07/27/23 05:17	1
n-Butylbenzene	ND		1.0	0.23	ug/L			07/27/23 05:17	1
N-Propylbenzene	ND		0.30	0.091	ug/L			07/27/23 05:17	1

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: TB-230724

Lab Sample ID: 580-129810-5

Date Collected: 07/24/23 07:00

Matrix: Water

Date Received: 07/24/23 16:59

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.50	0.15	ug/L			07/27/23 05:17	1
sec-Butylbenzene	ND		1.0	0.17	ug/L			07/27/23 05:17	1
Styrene	ND		1.0	0.19	ug/L			07/27/23 05:17	1
tert-Butylbenzene	ND		0.50	0.26	ug/L			07/27/23 05:17	1
Tetrachloroethene	ND		0.50	0.084	ug/L			07/27/23 05:17	1
Toluene	0.050	J	0.20	0.050	ug/L			07/27/23 05:17	1
trans-1,2-Dichloroethene	ND		0.20	0.033	ug/L			07/27/23 05:17	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			07/27/23 05:17	1
Trichloroethene	ND		0.20	0.066	ug/L			07/27/23 05:17	1
Trichlorofluoromethane	ND		0.50	0.12	ug/L			07/27/23 05:17	1
Vinyl chloride	ND		0.10	0.040	ug/L			07/27/23 05:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		80 - 120		07/27/23 05:17	1
4-Bromofluorobenzene (Surr)	92		80 - 120		07/27/23 05:17	1
Dibromofluoromethane (Surr)	104		80 - 120		07/27/23 05:17	1
Toluene-d8 (Surr)	100		80 - 120		07/27/23 05:17	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.050	0.014	mg/L			07/28/23 22:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		77 - 123					07/28/23 22:34	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-SO-97-0-2-230724

Lab Sample ID: 580-129810-6

Date Collected: 07/24/23 13:15

Matrix: Solid

Date Received: 07/24/23 16:59

Percent Solids: 94.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00043	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
1,1,1-Trichloroethane	ND		0.00043	0.00010	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
1,1,2,2-Tetrachloroethane	ND		0.00086	0.00023	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
1,1,2-Trichloroethane	ND		0.00043	0.00020	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
1,1-Dichloroethane	ND		0.00043	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
1,1-Dichloroethene	ND		0.00043	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
1,1-Dichloropropene	ND		0.00086	0.00017	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
1,2,3-Trichlorobenzene	ND		0.00086	0.00016	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
1,2,3-Trichloropropane	ND		0.00086	0.00018	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
1,2,4-Trichlorobenzene	ND		0.00086	0.00018	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
1,2,4-Trimethylbenzene	ND		0.00086	0.00026	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
1,2-Dibromo-3-Chloropropane	ND		0.0043	0.0014	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
1,2-Dibromoethane	ND		0.00043	0.000088	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
1,2-Dichlorobenzene	ND		0.00043	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
1,2-Dichloroethane	ND		0.00043	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
1,2-Dichloropropane	ND		0.00043	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
1,3,5-Trimethylbenzene	ND		0.00086	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
1,3-Dichlorobenzene	ND		0.00043	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
1,3-Dichloropropane	ND		0.00043	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
1,4-Dichlorobenzene	ND		0.00043	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
2,2-Dichloropropane	ND		0.0021	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
2-Chlorotoluene	ND		0.00043	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
4-Chlorotoluene	ND		0.00043	0.00010	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
4-Isopropyltoluene	ND		0.00043	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
Benzene	0.00011	J	0.00043	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
Bromobenzene	ND		0.00043	0.000089	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
Bromochloromethane	ND		0.00086	0.00019	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
Bromodichloromethane	ND		0.00043	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
Bromoform	ND		0.0021	0.00057	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
Bromomethane	ND		0.0086	0.0028	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
Carbon tetrachloride	ND		0.00043	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
Chlorobenzene	ND		0.00043	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
Chloroethane	ND		0.00086	0.00032	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
Chloroform	ND		0.00043	0.00025	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
Chloromethane	ND		0.0086	0.00066	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
cis-1,2-Dichloroethene	ND		0.00043	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
cis-1,3-Dichloropropene	ND		0.00043	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
Dibromochloromethane	ND		0.00086	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
Dibromomethane	ND		0.00043	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
Dichlorodifluoromethane	ND		0.00086	0.00019	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
Ethylbenzene	ND		0.00043	0.000088	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
Hexachlorobutadiene	ND		0.0021	0.00071	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
Isopropylbenzene	ND		0.00043	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
Methyl tert-butyl ether	ND		0.00086	0.000080	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
Methylene Chloride	ND		0.0043	0.0013	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
m-Xylene & p-Xylene	ND		0.00086	0.00020	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
Naphthalene	ND		0.0043	0.0017	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
n-Butylbenzene	ND		0.00043	0.000090	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
N-Propylbenzene	ND		0.00086	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-SO-97-0-2-230724

Lab Sample ID: 580-129810-6

Date Collected: 07/24/23 13:15

Matrix: Solid

Date Received: 07/24/23 16:59

Percent Solids: 94.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.00043	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
sec-Butylbenzene	ND		0.00043	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
Styrene	ND		0.00043	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
t-Butylbenzene	ND		0.00043	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
Tetrachloroethene	ND		0.00043	0.000096	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
Toluene	0.00015	J	0.00043	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
trans-1,2-Dichloroethene	ND		0.00043	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
trans-1,3-Dichloropropene	ND		0.00086	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
Trichloroethene	ND		0.00086	0.00017	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
Trichlorofluoromethane	ND		0.0043	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1
Vinyl chloride	ND		0.00043	0.00016	mg/Kg	☆	07/28/23 08:34	08/01/23 01:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	130		32 - 179	07/28/23 08:34	08/01/23 01:26	1
4-Bromofluorobenzene (Surr)	99		80 - 120	07/28/23 08:34	08/01/23 01:26	1
Toluene-d8 (Surr)	102		80 - 120	07/28/23 08:34	08/01/23 01:26	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		2.1	0.29	mg/Kg	☆	07/31/23 14:15	07/31/23 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		66 - 125	07/31/23 14:15	07/31/23 20:29	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.051	0.0061	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
1,2-Dichlorobenzene	ND		0.051	0.0051	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
1,3-Dichlorobenzene	ND		0.051	0.0049	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
1,4-Dichlorobenzene	0.033	J	0.051	0.0084	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
1-Methylnaphthalene	0.013	J	0.030	0.0051	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
2,4,5-Trichlorophenol	ND		0.20	0.0082	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
2,4,6-Trichlorophenol	ND		0.15	0.013	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
2,4-Dichlorophenol	ND		0.20	0.028	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
2,4-Dimethylphenol	ND		0.20	0.061	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
2,4-Dinitrophenol	ND		2.0	0.59	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
2,4-Dinitrotoluene	ND		0.20	0.044	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
2,6-Dinitrotoluene	ND		0.15	0.015	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
2-Chloronaphthalene	ND		0.025	0.0051	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
2-Chlorophenol	ND		0.20	0.0041	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
2-Methylnaphthalene	0.026	J	0.051	0.0089	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
2-Methylphenol	ND		0.15	0.0099	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
2-Nitroaniline	ND		0.10	0.015	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
2-Nitrophenol	ND		0.20	0.0063	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
3 & 4 Methylphenol	ND		0.20	0.015	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
3,3'-Dichlorobenzidine	ND		0.41	0.085	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
3-Nitroaniline	ND		0.30	0.10	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
4,6-Dinitro-2-methylphenol	ND		1.0	0.10	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
4-Bromophenyl phenyl ether	ND		0.20	0.0092	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
4-Chloro-3-methylphenol	ND		0.15	0.033	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-SO-97-0-2-230724

Lab Sample ID: 580-129810-6

Date Collected: 07/24/23 13:15

Matrix: Solid

Date Received: 07/24/23 16:59

Percent Solids: 94.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		1.5	0.14	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
4-Chlorophenyl phenyl ether	ND		0.20	0.0064	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
4-Nitroaniline	ND		0.15	0.051	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
4-Nitrophenol	ND		2.0	0.17	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Acenaphthene	ND		0.041	0.0047	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Acenaphthylene	0.016	J	0.025	0.0051	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Anthracene	0.034	J	0.061	0.016	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Benzo[a]anthracene	0.11		0.041	0.011	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Benzo[a]pyrene	0.11		0.061	0.013	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Benzo[b]fluoranthene	0.14		0.041	0.010	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Benzo[g,h,i]perylene	0.055	J	0.061	0.018	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Benzo[k]fluoranthene	0.057	J	0.061	0.014	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Benzoic acid	ND	*1	4.1	1.2	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Benzy alcohol	0.33	J	1.0	0.051	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Bis(2-chloroethoxy)methane	ND		0.20	0.018	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Bis(2-chloroethyl)ether	ND		0.10	0.0078	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Bis(2-ethylhexyl) phthalate	ND		0.61	0.072	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
bis(chloroisopropyl) ether	ND		0.20	0.0062	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Butyl benzyl phthalate	ND		0.20	0.052	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Carbazole	ND		0.15	0.0074	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Chrysene	0.13		0.061	0.013	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Dibenz(a,h)anthracene	ND		0.051	0.012	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Dibenzofuran	ND		0.15	0.0060	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Diethyl phthalate	ND		0.41	0.022	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Dimethyl phthalate	ND		0.15	0.0051	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Di-n-butyl phthalate	ND		0.51	0.027	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Di-n-octyl phthalate	ND		0.15	0.012	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Fluoranthene	0.19		0.041	0.012	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Fluorene	ND		0.025	0.0051	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Hexachlorobenzene	ND		0.051	0.015	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Hexachlorobutadiene	ND		0.051	0.015	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Hexachlorocyclopentadiene	ND		0.10	0.0078	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Hexachloroethane	ND		0.15	0.0044	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Indeno[1,2,3-cd]pyrene	0.053		0.041	0.012	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Isophorone	ND		0.15	0.0085	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Naphthalene	0.035		0.025	0.0051	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Nitrobenzene	ND		0.20	0.020	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
N-Nitrosodi-n-propylamine	ND		0.20	0.022	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
N-Nitrosodiphenylamine	ND		0.061	0.0081	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Pentachlorophenol	ND		0.41	0.064	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Phenanthrene	0.11		0.061	0.0059	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Phenol	ND		0.15	0.023	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1
Pyrene	0.23		0.061	0.013	mg/Kg	☆	07/26/23 10:22	07/28/23 00:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		62 - 122	07/26/23 10:22	07/28/23 00:14	1
2-Fluorobiphenyl	84		64 - 120	07/26/23 10:22	07/28/23 00:14	1
2-Fluorophenol (Surr)	80		58 - 120	07/26/23 10:22	07/28/23 00:14	1
Nitrobenzene-d5 (Surr)	87		63 - 120	07/26/23 10:22	07/28/23 00:14	1
Phenol-d5 (Surr)	76		59 - 120	07/26/23 10:22	07/28/23 00:14	1

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-SO-97-0-2-230724

Lab Sample ID: 580-129810-6

Date Collected: 07/24/23 13:15

Matrix: Solid

Date Received: 07/24/23 16:59

Percent Solids: 94.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	86		73 - 125	07/26/23 10:22	07/28/23 00:14	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.021	0.0078	mg/Kg	✱	08/01/23 10:10	08/16/23 02:15	1
PCB-1221	ND		0.021	0.013	mg/Kg	✱	08/01/23 10:10	08/16/23 02:15	1
PCB-1232	ND		0.021	0.0052	mg/Kg	✱	08/01/23 10:10	08/16/23 02:15	1
PCB-1242	ND		0.021	0.0085	mg/Kg	✱	08/01/23 10:10	08/16/23 02:15	1
PCB-1248	ND		0.021	0.0074	mg/Kg	✱	08/01/23 10:10	08/16/23 02:15	1
PCB-1254	ND		0.021	0.0095	mg/Kg	✱	08/01/23 10:10	08/16/23 02:15	1
PCB-1260	0.065		0.021	0.0078	mg/Kg	✱	08/01/23 10:10	08/23/23 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	37	S1-	44 - 135	08/01/23 10:10	08/16/23 02:15	1
Tetrachloro-m-xylene	74		48 - 150	08/01/23 10:10	08/16/23 02:15	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	57		52	13	mg/Kg	✱	07/26/23 11:20	08/05/23 06:28	1
Motor Oil (>C24-C36)	560		52	18	mg/Kg	✱	07/26/23 11:20	08/05/23 06:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	93		50 - 150	07/26/23 11:20	08/05/23 06:28	1

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.52	J q	1.0	0.11	pg/g	✱	07/27/23 06:55	08/18/23 22:19	1
1,2,3,7,8-PeCDD	1.4	J B	5.2	0.22	pg/g	✱	07/27/23 06:55	08/18/23 22:19	1
1,2,3,7,8-PeCDF	1.4	J B	5.2	0.16	pg/g	✱	07/27/23 06:55	08/18/23 22:19	1
2,3,4,7,8-PeCDF	1.7	J B	5.2	0.16	pg/g	✱	07/27/23 06:55	08/18/23 22:19	1
1,2,3,4,7,8-HxCDD	2.5	J B	5.2	0.17	pg/g	✱	07/27/23 06:55	08/18/23 22:19	1
1,2,3,6,7,8-HxCDD	21	B	5.2	0.20	pg/g	✱	07/27/23 06:55	08/18/23 22:19	1
1,2,3,7,8,9-HxCDD	7.2	B	5.2	0.17	pg/g	✱	07/27/23 06:55	08/18/23 22:19	1
1,2,3,4,7,8-HxCDF	4.2	J B	5.2	0.25	pg/g	✱	07/27/23 06:55	08/18/23 22:19	1
1,2,3,6,7,8-HxCDF	2.6	J B	5.2	0.27	pg/g	✱	07/27/23 06:55	08/18/23 22:19	1
1,2,3,7,8,9-HxCDF	0.26	J B	5.2	0.24	pg/g	✱	07/27/23 06:55	08/18/23 22:19	1
2,3,4,6,7,8-HxCDF	2.3	J B	5.2	0.24	pg/g	✱	07/27/23 06:55	08/18/23 22:19	1
1,2,3,4,6,7,8-HpCDD	240	B	5.2	0.81	pg/g	✱	07/27/23 06:55	08/18/23 22:19	1
1,2,3,4,6,7,8-HpCDF	70	B	5.2	0.39	pg/g	✱	07/27/23 06:55	08/18/23 22:19	1
1,2,3,4,7,8,9-HpCDF	2.6	J B	5.2	0.33	pg/g	✱	07/27/23 06:55	08/18/23 22:19	1
OCDD	2200	B	10	0.82	pg/g	✱	07/27/23 06:55	08/18/23 22:19	1
OCDF	120	B	10	0.13	pg/g	✱	07/27/23 06:55	08/18/23 22:19	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	64		40 - 135	07/27/23 06:55	08/18/23 22:19	1
13C-2,3,7,8-TCDF	62		40 - 135	07/27/23 06:55	08/18/23 22:19	1
13C-1,2,3,7,8-PeCDD	73		40 - 135	07/27/23 06:55	08/18/23 22:19	1
13C-1,2,3,7,8-PeCDF	66		40 - 135	07/27/23 06:55	08/18/23 22:19	1
13C-2,3,4,7,8-PeCDF	74		40 - 135	07/27/23 06:55	08/18/23 22:19	1
13C-1,2,3,4,7,8-HxCDD	73		40 - 135	07/27/23 06:55	08/18/23 22:19	1
13C-1,2,3,6,7,8-HxCDD	64		40 - 135	07/27/23 06:55	08/18/23 22:19	1

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-SO-97-0-2-230724

Lab Sample ID: 580-129810-6

Date Collected: 07/24/23 13:15

Matrix: Solid

Date Received: 07/24/23 16:59

Percent Solids: 94.3

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,7,8-HxCDF	70		40 - 135	07/27/23 06:55	08/18/23 22:19	1
13C-2,3,4,6,7,8-HxCDF	64		40 - 135	07/27/23 06:55	08/18/23 22:19	1
13C-1,2,3,6,7,8-HxCDF	59		40 - 135	07/27/23 06:55	08/18/23 22:19	1
13C-1,2,3,7,8,9-HxCDF	58		40 - 135	07/27/23 06:55	08/18/23 22:19	1
13C-1,2,3,4,6,7,8-HpCDD	70		40 - 135	07/27/23 06:55	08/18/23 22:19	1
13C-1,2,3,4,6,7,8-HpCDF	66		40 - 135	07/27/23 06:55	08/18/23 22:19	1
13C-1,2,3,4,7,8,9-HpCDF	75		40 - 135	07/27/23 06:55	08/18/23 22:19	1
13C-OCDD	78		40 - 135	07/27/23 06:55	08/18/23 22:19	1
13C-OCDF	79		40 - 135	07/27/23 06:55	08/18/23 22:19	1

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	2.5	B	1.0	0.14	pg/g	☼	07/27/23 06:55	08/25/23 16:24	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	66		40 - 135				07/27/23 06:55	08/25/23 16:24	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.8	J	2.1	0.18	mg/Kg	☆	08/01/23 13:49	08/03/23 21:03	1
Arsenic	5.4		2.1	0.17	mg/Kg	☆	08/01/23 13:49	08/03/23 21:03	1
Beryllium	0.26	J	0.70	0.049	mg/Kg	☆	08/01/23 13:49	08/03/23 21:03	1
Cadmium	0.47	J	0.70	0.034	mg/Kg	☆	08/01/23 13:49	08/03/23 21:03	1
Chromium	31		0.90	0.15	mg/Kg	☆	08/01/23 13:49	08/03/23 21:03	1
Copper	32	B	1.7	0.28	mg/Kg	☆	08/01/23 13:49	08/03/23 21:03	1
Lead	61		1.0	0.15	mg/Kg	☆	08/01/23 13:49	08/03/23 21:03	1
Nickel	29		0.70	0.072	mg/Kg	☆	08/01/23 13:49	08/03/23 21:03	1
Selenium	ND		3.5	0.28	mg/Kg	☆	08/01/23 13:49	08/03/23 21:03	1
Silver	ND		1.7	0.39	mg/Kg	☆	08/01/23 13:49	08/03/23 21:03	1
Zinc	66		2.8	0.66	mg/Kg	☆	08/01/23 13:49	08/03/23 21:03	1

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14		0.025	0.0074	mg/Kg	☆	08/07/23 11:52	08/08/23 14:04	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (SM22 2540G)	94.3		0.1	0.1	%			07/26/23 23:36	1
Percent Moisture (SM22 2540G)	5.7		0.1	0.1	%			07/26/23 23:36	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-SO-97-10-12-230724

Lab Sample ID: 580-129810-8

Date Collected: 07/24/23 14:00

Matrix: Solid

Date Received: 07/24/23 16:59

Percent Solids: 79.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00053	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
1,1,1-Trichloroethane	ND		0.00053	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
1,1,2,2-Tetrachloroethane	ND		0.0011	0.00029	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
1,1,2-Trichloroethane	ND		0.00053	0.00024	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
1,1-Dichloroethane	ND		0.00053	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
1,1-Dichloroethene	ND		0.00053	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
1,1-Dichloropropene	ND		0.0011	0.00020	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
1,2,3-Trichlorobenzene	ND		0.0011	0.00020	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
1,2,3-Trichloropropane	ND		0.0011	0.00022	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
1,2,4-Trichlorobenzene	ND		0.0011	0.00022	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
1,2,4-Trimethylbenzene	ND		0.0011	0.00032	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
1,2-Dibromo-3-Chloropropane	ND		0.0053	0.0018	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
1,2-Dibromoethane	ND		0.00053	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
1,2-Dichlorobenzene	ND		0.00053	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
1,2-Dichloroethane	ND		0.00053	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
1,2-Dichloropropane	ND		0.00053	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
1,3,5-Trimethylbenzene	ND		0.0011	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
1,3-Dichlorobenzene	ND		0.00053	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
1,3-Dichloropropane	ND		0.00053	0.00016	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
1,4-Dichlorobenzene	ND		0.00053	0.00016	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
2,2-Dichloropropane	ND		0.0026	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
2-Chlorotoluene	ND		0.00053	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
4-Chlorotoluene	ND		0.00053	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
4-Isopropyltoluene	ND		0.00053	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
Benzene	ND		0.00053	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
Bromobenzene	ND		0.00053	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
Bromochloromethane	ND		0.0011	0.00023	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
Bromodichloromethane	ND		0.00053	0.00017	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
Bromoform	ND		0.0026	0.00070	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
Bromomethane	ND		0.011	0.0035	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
Carbon tetrachloride	ND		0.00053	0.00016	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
Chlorobenzene	ND		0.00053	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
Chloroethane	ND		0.0011	0.00039	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
Chloroform	ND		0.00053	0.00031	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
Chloromethane	ND		0.011	0.00081	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
cis-1,2-Dichloroethene	ND		0.00053	0.00018	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
cis-1,3-Dichloropropene	ND		0.00053	0.00018	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
Dibromochloromethane	ND		0.0011	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
Dibromomethane	ND		0.00053	0.00016	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
Dichlorodifluoromethane	ND		0.0011	0.00024	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
Ethylbenzene	ND		0.00053	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
Hexachlorobutadiene	ND		0.0026	0.00088	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
Isopropylbenzene	ND		0.00053	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
Methyl tert-butyl ether	ND		0.0011	0.000099	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
Methylene Chloride	ND		0.0053	0.0016	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
m-Xylene & p-Xylene	ND		0.0011	0.00025	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
Naphthalene	ND		0.0053	0.0021	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
n-Butylbenzene	ND		0.00053	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
N-Propylbenzene	ND		0.0011	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-SO-97-10-12-230724

Lab Sample ID: 580-129810-8

Date Collected: 07/24/23 14:00

Matrix: Solid

Date Received: 07/24/23 16:59

Percent Solids: 79.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.00053	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
sec-Butylbenzene	ND		0.00053	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
Styrene	ND		0.00053	0.00017	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
t-Butylbenzene	ND		0.00053	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
Tetrachloroethene	ND		0.00053	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
Toluene	ND		0.00053	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
trans-1,2-Dichloroethene	ND		0.00053	0.00016	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
trans-1,3-Dichloropropene	ND		0.0011	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
Trichloroethene	ND		0.0011	0.00020	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
Trichlorofluoromethane	ND		0.0053	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1
Vinyl chloride	ND		0.00053	0.00020	mg/Kg	☆	07/28/23 08:34	08/01/23 01:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	127		32 - 179	07/28/23 08:34	08/01/23 01:47	1
4-Bromofluorobenzene (Surr)	97		80 - 120	07/28/23 08:34	08/01/23 01:47	1
Toluene-d8 (Surr)	102		80 - 120	07/28/23 08:34	08/01/23 01:47	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		3.1	0.44	mg/Kg	☆	07/31/23 14:15	07/31/23 20:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		66 - 125	07/31/23 14:15	07/31/23 20:53	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.060	0.0073	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
1,2-Dichlorobenzene	ND		0.060	0.0060	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
1,3-Dichlorobenzene	ND		0.060	0.0058	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
1,4-Dichlorobenzene	ND		0.060	0.010	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
1-Methylnaphthalene	ND		0.036	0.0060	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
2,4,5-Trichlorophenol	ND		0.24	0.0098	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
2,4,6-Trichlorophenol	ND		0.18	0.016	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
2,4-Dichlorophenol	ND		0.24	0.034	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
2,4-Dimethylphenol	ND		0.24	0.073	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
2,4-Dinitrophenol	ND		2.4	0.71	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
2,4-Dinitrotoluene	ND		0.24	0.052	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
2,6-Dinitrotoluene	ND		0.18	0.018	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
2-Chloronaphthalene	ND		0.030	0.0060	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
2-Chlorophenol	ND		0.24	0.0048	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
2-Methylnaphthalene	ND		0.060	0.011	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
2-Methylphenol	ND		0.18	0.012	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
2-Nitroaniline	ND		0.12	0.018	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
2-Nitrophenol	ND		0.24	0.0075	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
3 & 4 Methylphenol	ND		0.24	0.018	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
3,3'-Dichlorobenzidine	ND		0.48	0.10	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
3-Nitroaniline	ND		0.36	0.12	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
4,6-Dinitro-2-methylphenol	ND		1.2	0.12	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
4-Bromophenyl phenyl ether	ND		0.24	0.011	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
4-Chloro-3-methylphenol	ND		0.18	0.040	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-SO-97-10-12-230724

Lab Sample ID: 580-129810-8

Date Collected: 07/24/23 14:00

Matrix: Solid

Date Received: 07/24/23 16:59

Percent Solids: 79.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		1.8	0.16	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
4-Chlorophenyl phenyl ether	ND		0.24	0.0076	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
4-Nitroaniline	ND		0.18	0.060	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
4-Nitrophenol	ND		2.4	0.21	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Acenaphthene	0.0063	J	0.048	0.0056	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Acenaphthylene	ND		0.030	0.0060	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Anthracene	ND		0.073	0.019	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Benzo[a]anthracene	ND		0.048	0.013	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Benzo[a]pyrene	ND		0.073	0.016	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Benzo[b]fluoranthene	ND		0.048	0.012	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Benzo[g,h,i]perylene	ND		0.073	0.022	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Benzo[k]fluoranthene	ND		0.073	0.017	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Benzoic acid	ND	*1	4.8	1.5	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Benzyl alcohol	0.29	J	1.2	0.060	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Bis(2-chloroethoxy)methane	ND		0.24	0.022	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Bis(2-chloroethyl)ether	ND		0.12	0.0093	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Bis(2-ethylhexyl) phthalate	ND		0.73	0.086	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
bis(chloroisopropyl) ether	ND		0.24	0.0074	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Butyl benzyl phthalate	ND		0.24	0.062	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Carbazole	ND		0.18	0.0088	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Chrysene	ND		0.073	0.016	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Dibenz(a,h)anthracene	ND		0.060	0.015	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Dibenzofuran	ND		0.18	0.0071	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Diethyl phthalate	ND		0.48	0.027	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Dimethyl phthalate	ND		0.18	0.0060	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Di-n-butyl phthalate	ND		0.60	0.033	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Di-n-octyl phthalate	ND		0.18	0.015	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Fluoranthene	ND		0.048	0.015	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Fluorene	ND		0.030	0.0060	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Hexachlorobenzene	ND		0.060	0.018	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Hexachlorobutadiene	ND		0.060	0.018	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Hexachlorocyclopentadiene	ND		0.12	0.0093	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Hexachloroethane	ND		0.18	0.0052	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Indeno[1,2,3-cd]pyrene	ND		0.048	0.015	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Isophorone	ND		0.18	0.010	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Naphthalene	ND		0.030	0.0060	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Nitrobenzene	ND		0.24	0.024	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
N-Nitrosodi-n-propylamine	ND		0.24	0.027	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
N-Nitrosodiphenylamine	ND		0.073	0.0097	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Pentachlorophenol	ND		0.48	0.076	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Phenanthrene	ND		0.073	0.0070	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Phenol	ND		0.18	0.028	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1
Pyrene	ND		0.073	0.016	mg/Kg	☆	07/26/23 10:22	07/28/23 00:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		62 - 122	07/26/23 10:22	07/28/23 00:39	1
2-Fluorobiphenyl	95		64 - 120	07/26/23 10:22	07/28/23 00:39	1
2-Fluorophenol (Surr)	85		58 - 120	07/26/23 10:22	07/28/23 00:39	1
Nitrobenzene-d5 (Surr)	93		63 - 120	07/26/23 10:22	07/28/23 00:39	1
Phenol-d5 (Surr)	82		59 - 120	07/26/23 10:22	07/28/23 00:39	1

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-SO-97-10-12-230724

Lab Sample ID: 580-129810-8

Date Collected: 07/24/23 14:00

Matrix: Solid

Date Received: 07/24/23 16:59

Percent Solids: 79.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	100		73 - 125	07/26/23 10:22	07/28/23 00:39	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.025	0.0091	mg/Kg	✱	08/01/23 10:10	08/16/23 01:58	1
PCB-1221	ND		0.025	0.015	mg/Kg	✱	08/01/23 10:10	08/16/23 01:58	1
PCB-1232	ND		0.025	0.0060	mg/Kg	✱	08/01/23 10:10	08/16/23 01:58	1
PCB-1242	ND		0.025	0.0099	mg/Kg	✱	08/01/23 10:10	08/16/23 01:58	1
PCB-1248	ND		0.025	0.0086	mg/Kg	✱	08/01/23 10:10	08/16/23 01:58	1
PCB-1254	ND		0.025	0.011	mg/Kg	✱	08/01/23 10:10	08/16/23 01:58	1
PCB-1260	ND		0.025	0.0091	mg/Kg	✱	08/01/23 10:10	08/16/23 01:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	46		44 - 135	08/01/23 10:10	08/16/23 01:58	1
Tetrachloro-m-xylene	78		48 - 150	08/01/23 10:10	08/16/23 01:58	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		62	15	mg/Kg	✱	07/26/23 11:20	08/05/23 06:47	1
Motor Oil (>C24-C36)	ND		62	22	mg/Kg	✱	07/26/23 11:20	08/05/23 06:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	82		50 - 150	07/26/23 11:20	08/05/23 06:47	1

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		1.2	0.041	pg/g	✱	07/27/23 06:55	08/18/23 23:07	1
2,3,7,8-TCDF	0.16	J B	1.2	0.013	pg/g	✱	07/27/23 06:55	08/18/23 23:07	1
1,2,3,7,8-PeCDD	ND		6.0	0.057	pg/g	✱	07/27/23 06:55	08/18/23 23:07	1
1,2,3,7,8-PeCDF	ND		6.0	0.038	pg/g	✱	07/27/23 06:55	08/18/23 23:07	1
2,3,4,7,8-PeCDF	ND		6.0	0.036	pg/g	✱	07/27/23 06:55	08/18/23 23:07	1
1,2,3,4,7,8-HxCDD	0.20	J B q	6.0	0.041	pg/g	✱	07/27/23 06:55	08/18/23 23:07	1
1,2,3,6,7,8-HxCDD	0.17	J B	6.0	0.048	pg/g	✱	07/27/23 06:55	08/18/23 23:07	1
1,2,3,7,8,9-HxCDD	ND		6.0	0.041	pg/g	✱	07/27/23 06:55	08/18/23 23:07	1
1,2,3,4,7,8-HxCDF	ND		6.0	0.027	pg/g	✱	07/27/23 06:55	08/18/23 23:07	1
1,2,3,6,7,8-HxCDF	ND		6.0	0.029	pg/g	✱	07/27/23 06:55	08/18/23 23:07	1
1,2,3,7,8,9-HxCDF	ND		6.0	0.026	pg/g	✱	07/27/23 06:55	08/18/23 23:07	1
2,3,4,6,7,8-HxCDF	ND		6.0	0.026	pg/g	✱	07/27/23 06:55	08/18/23 23:07	1
1,2,3,4,6,7,8-HpCDD	1.1	J B	6.0	0.049	pg/g	✱	07/27/23 06:55	08/18/23 23:07	1
1,2,3,4,6,7,8-HpCDF	0.39	J B	6.0	0.057	pg/g	✱	07/27/23 06:55	08/18/23 23:07	1
1,2,3,4,7,8,9-HpCDF	ND		6.0	0.049	pg/g	✱	07/27/23 06:55	08/18/23 23:07	1
OCDD	6.6	J B	12	0.090	pg/g	✱	07/27/23 06:55	08/18/23 23:07	1
OCDF	0.53	J B	12	0.064	pg/g	✱	07/27/23 06:55	08/18/23 23:07	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	71		40 - 135	07/27/23 06:55	08/18/23 23:07	1
13C-2,3,7,8-TCDF	71		40 - 135	07/27/23 06:55	08/18/23 23:07	1
13C-1,2,3,7,8-PeCDD	82		40 - 135	07/27/23 06:55	08/18/23 23:07	1
13C-1,2,3,7,8-PeCDF	74		40 - 135	07/27/23 06:55	08/18/23 23:07	1
13C-2,3,4,7,8-PeCDF	84		40 - 135	07/27/23 06:55	08/18/23 23:07	1
13C-1,2,3,4,7,8-HxCDD	83		40 - 135	07/27/23 06:55	08/18/23 23:07	1

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-SO-97-10-12-230724

Lab Sample ID: 580-129810-8

Date Collected: 07/24/23 14:00

Matrix: Solid

Date Received: 07/24/23 16:59

Percent Solids: 79.7

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDD	70		40 - 135	07/27/23 06:55	08/18/23 23:07	1
13C-1,2,3,4,7,8-HxCDF	79		40 - 135	07/27/23 06:55	08/18/23 23:07	1
13C-2,3,4,6,7,8-HxCDF	71		40 - 135	07/27/23 06:55	08/18/23 23:07	1
13C-1,2,3,6,7,8-HxCDF	66		40 - 135	07/27/23 06:55	08/18/23 23:07	1
13C-1,2,3,7,8,9-HxCDF	65		40 - 135	07/27/23 06:55	08/18/23 23:07	1
13C-1,2,3,4,6,7,8-HpCDD	79		40 - 135	07/27/23 06:55	08/18/23 23:07	1
13C-1,2,3,4,6,7,8-HpCDF	73		40 - 135	07/27/23 06:55	08/18/23 23:07	1
13C-1,2,3,4,7,8,9-HpCDF	85		40 - 135	07/27/23 06:55	08/18/23 23:07	1
13C-OCDD	86		40 - 135	07/27/23 06:55	08/18/23 23:07	1
13C-OCDF	85		40 - 135	07/27/23 06:55	08/18/23 23:07	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.85	J	2.9	0.25	mg/Kg	✱	08/01/23 13:49	08/03/23 21:06	1
Arsenic	2.0	J	2.9	0.24	mg/Kg	✱	08/01/23 13:49	08/03/23 21:06	1
Beryllium	0.13	J	0.95	0.067	mg/Kg	✱	08/01/23 13:49	08/03/23 21:06	1
Cadmium	0.27	J	0.95	0.047	mg/Kg	✱	08/01/23 13:49	08/03/23 21:06	1
Chromium	17		1.2	0.21	mg/Kg	✱	08/01/23 13:49	08/03/23 21:06	1
Copper	12	B	2.4	0.38	mg/Kg	✱	08/01/23 13:49	08/03/23 21:06	1
Lead	6.9		1.4	0.21	mg/Kg	✱	08/01/23 13:49	08/03/23 21:06	1
Nickel	9.7		0.95	0.098	mg/Kg	✱	08/01/23 13:49	08/03/23 21:06	1
Selenium	ND		4.8	0.38	mg/Kg	✱	08/01/23 13:49	08/03/23 21:06	1
Silver	ND		2.4	0.53	mg/Kg	✱	08/01/23 13:49	08/03/23 21:06	1
Zinc	36		3.8	0.91	mg/Kg	✱	08/01/23 13:49	08/03/23 21:06	1

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.027	0.0082	mg/Kg	✱	08/07/23 11:52	08/08/23 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (SM22 2540G)	79.7		0.1	0.1	%			07/27/23 11:03	1
Percent Moisture (SM22 2540G)	20.3		0.1	0.1	%			07/27/23 11:03	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-GW-96-230724

Lab Sample ID: 580-129810-12

Date Collected: 07/24/23 14:50

Matrix: Water

Date Received: 07/24/23 16:59

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.038	ug/L			07/27/23 06:29	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			07/27/23 06:29	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			07/27/23 06:29	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			07/27/23 06:29	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			07/27/23 06:29	1
1,1-Dichloroethene	ND		0.20	0.035	ug/L			07/27/23 06:29	1
1,1-Dichloropropene	ND		0.20	0.084	ug/L			07/27/23 06:29	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			07/27/23 06:29	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			07/27/23 06:29	1
1,2,4-Trichlorobenzene	ND		0.50	0.17	ug/L			07/27/23 06:29	1
1,2,4-Trimethylbenzene	ND		0.50	0.20	ug/L			07/27/23 06:29	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.17	ug/L			07/27/23 06:29	1
1,2-Dichlorobenzene	ND		0.30	0.038	ug/L			07/27/23 06:29	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			07/27/23 06:29	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			07/27/23 06:29	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			07/27/23 06:29	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			07/27/23 06:29	1
1,3-Dichloropropane	ND		0.20	0.025	ug/L			07/27/23 06:29	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			07/27/23 06:29	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			07/27/23 06:29	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			07/27/23 06:29	1
4-Chlorotoluene	ND		0.30	0.12	ug/L			07/27/23 06:29	1
4-Isopropyltoluene	ND		0.50	0.15	ug/L			07/27/23 06:29	1
Benzene	ND		0.20	0.030	ug/L			07/27/23 06:29	1
Bromobenzene	ND		0.20	0.038	ug/L			07/27/23 06:29	1
Bromoform	ND		0.50	0.16	ug/L			07/27/23 06:29	1
Bromomethane	ND		0.50	0.13	ug/L			07/27/23 06:29	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			07/27/23 06:29	1
Chlorobenzene	ND		0.20	0.060	ug/L			07/27/23 06:29	1
Chlorobromomethane	ND		0.20	0.050	ug/L			07/27/23 06:29	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			07/27/23 06:29	1
Chloroethane	ND		0.50	0.096	ug/L			07/27/23 06:29	1
Chloroform	ND		0.20	0.030	ug/L			07/27/23 06:29	1
Chloromethane	ND		0.50	0.14	ug/L			07/27/23 06:29	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			07/27/23 06:29	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			07/27/23 06:29	1
Dibromomethane	ND		0.20	0.062	ug/L			07/27/23 06:29	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			07/27/23 06:29	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			07/27/23 06:29	1
Ethylbenzene	ND		0.20	0.030	ug/L			07/27/23 06:29	1
Ethylene Dibromide	ND		0.10	0.025	ug/L			07/27/23 06:29	1
Hexachlorobutadiene	ND		0.50	0.067	ug/L			07/27/23 06:29	1
Isopropylbenzene	ND		1.0	0.19	ug/L			07/27/23 06:29	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			07/27/23 06:29	1
Methylene Chloride	ND		5.0	1.2	ug/L			07/27/23 06:29	1
m-Xylene & p-Xylene	0.19	J	0.50	0.12	ug/L			07/27/23 06:29	1
Naphthalene	ND		1.0	0.22	ug/L			07/27/23 06:29	1
n-Butylbenzene	ND		1.0	0.23	ug/L			07/27/23 06:29	1
N-Propylbenzene	ND		0.30	0.091	ug/L			07/27/23 06:29	1

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-GW-96-230724

Lab Sample ID: 580-129810-12

Date Collected: 07/24/23 14:50

Matrix: Water

Date Received: 07/24/23 16:59

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.50	0.15	ug/L			07/27/23 06:29	1
sec-Butylbenzene	ND		1.0	0.17	ug/L			07/27/23 06:29	1
Styrene	ND		1.0	0.19	ug/L			07/27/23 06:29	1
tert-Butylbenzene	ND		0.50	0.26	ug/L			07/27/23 06:29	1
Tetrachloroethene	ND		0.50	0.084	ug/L			07/27/23 06:29	1
Toluene	ND		0.20	0.050	ug/L			07/27/23 06:29	1
trans-1,2-Dichloroethene	ND		0.20	0.033	ug/L			07/27/23 06:29	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			07/27/23 06:29	1
Trichloroethene	ND		0.20	0.066	ug/L			07/27/23 06:29	1
Trichlorofluoromethane	ND		0.50	0.12	ug/L			07/27/23 06:29	1
Vinyl chloride	ND		0.10	0.040	ug/L			07/27/23 06:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		80 - 120		07/27/23 06:29	1
4-Bromofluorobenzene (Surr)	92		80 - 120		07/27/23 06:29	1
Dibromofluoromethane (Surr)	106		80 - 120		07/27/23 06:29	1
Toluene-d8 (Surr)	99		80 - 120		07/27/23 06:29	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.050	0.014	mg/L			07/29/23 01:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		77 - 123		07/29/23 01:51	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.081	J	0.11	0.066	mg/L		07/31/23 09:03	08/01/23 03:20	1
Motor Oil (>C24-C36)	0.20	J	0.36	0.098	mg/L		07/31/23 09:03	08/01/23 03:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	74		50 - 150	07/31/23 09:03	08/01/23 03:20	1

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.11	0.066	mg/L		07/31/23 09:03	07/31/23 23:31	1
Motor Oil (>C24-C36)	ND		0.36	0.098	mg/L		07/31/23 09:03	07/31/23 23:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	82		50 - 150	07/31/23 09:03	07/31/23 23:31	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.8		0.50	0.20	ng/L			07/28/23 20:39	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.96		0.50	0.20	ng/L			07/28/23 20:56	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.020	0.0080	ug/L		08/04/23 11:57	08/05/23 07:36	1

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-GW-96-230724

Lab Sample ID: 580-129810-12

Date Collected: 07/24/23 14:50

Matrix: Water

Date Received: 07/24/23 16:59

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	65	B	0.20	0.020	ug/L		08/04/23 11:57	08/05/23 07:36	1
Beryllium	ND		0.060	0.024	ug/L		08/04/23 11:57	08/05/23 07:36	1
Cadmium	ND		0.030	0.018	ug/L		08/04/23 11:57	08/05/23 07:36	1
Chromium	ND		0.50	0.21	ug/L		08/04/23 11:57	08/05/23 07:36	1
Copper	ND		0.50	0.40	ug/L		08/04/23 11:57	08/05/23 07:36	1
Nickel	0.52		0.50	0.23	ug/L		08/04/23 11:57	08/05/23 07:36	1
Lead	0.079		0.060	0.027	ug/L		08/04/23 11:57	08/05/23 07:36	1
Antimony	1.7		0.10	0.035	ug/L		08/04/23 11:57	08/05/23 07:36	1
Selenium	0.068	J B	0.30	0.050	ug/L		08/04/23 11:57	08/05/23 07:36	1
Thallium	0.0029	J	0.010	0.0020	ug/L		08/04/23 11:57	08/05/23 07:36	1
Zinc	ND		1.0	0.82	ug/L		08/04/23 11:57	08/05/23 07:36	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.020	0.0080	ug/L		08/04/23 11:57	08/05/23 07:22	1
Arsenic	76	B	0.20	0.020	ug/L		08/04/23 11:57	08/05/23 07:22	1
Beryllium	ND		0.060	0.024	ug/L		08/04/23 11:57	08/05/23 07:22	1
Cadmium	ND		0.030	0.018	ug/L		08/04/23 11:57	08/05/23 07:22	1
Chromium	ND		0.50	0.21	ug/L		08/04/23 11:57	08/05/23 07:22	1
Copper	ND		0.50	0.40	ug/L		08/04/23 11:57	08/05/23 07:22	1
Nickel	0.80		0.50	0.23	ug/L		08/04/23 11:57	08/05/23 07:22	1
Lead	0.031	J	0.060	0.027	ug/L		08/04/23 11:57	08/05/23 07:22	1
Antimony	2.5		0.10	0.035	ug/L		08/04/23 11:57	08/05/23 07:22	1
Selenium	0.088	J B	0.30	0.050	ug/L		08/04/23 11:57	08/05/23 07:22	1
Thallium	ND		0.010	0.0020	ug/L		08/04/23 11:57	08/05/23 07:22	1
Zinc	ND		1.0	0.82	ug/L		08/04/23 11:57	08/05/23 07:22	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	ND		0.40	0.40	mg/L			07/27/23 05:35	1

QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 570-350508/6

Matrix: Solid

Analysis Batch: 350508

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0010	0.00029	mg/Kg			07/31/23 21:56	1
1,1,1-Trichloroethane	ND		0.0010	0.00023	mg/Kg			07/31/23 21:56	1
1,1,2,2-Tetrachloroethane	ND		0.0020	0.00054	mg/Kg			07/31/23 21:56	1
1,1,2-Trichloroethane	ND		0.0010	0.00046	mg/Kg			07/31/23 21:56	1
1,1-Dichloroethane	ND		0.0010	0.00028	mg/Kg			07/31/23 21:56	1
1,1-Dichloroethene	ND		0.0010	0.00027	mg/Kg			07/31/23 21:56	1
1,1-Dichloropropene	ND		0.0020	0.00039	mg/Kg			07/31/23 21:56	1
1,2,3-Trichlorobenzene	ND		0.0020	0.00038	mg/Kg			07/31/23 21:56	1
1,2,3-Trichloropropane	ND		0.0020	0.00042	mg/Kg			07/31/23 21:56	1
1,2,4-Trichlorobenzene	ND		0.0020	0.00041	mg/Kg			07/31/23 21:56	1
1,2,4-Trimethylbenzene	ND		0.0020	0.00060	mg/Kg			07/31/23 21:56	1
1,2-Dibromo-3-Chloropropane	ND		0.010	0.0033	mg/Kg			07/31/23 21:56	1
1,2-Dibromoethane	ND		0.0010	0.00021	mg/Kg			07/31/23 21:56	1
1,2-Dichlorobenzene	ND		0.0010	0.00025	mg/Kg			07/31/23 21:56	1
1,2-Dichloroethane	ND		0.0010	0.00028	mg/Kg			07/31/23 21:56	1
1,2-Dichloropropane	ND		0.0010	0.00028	mg/Kg			07/31/23 21:56	1
1,3,5-Trimethylbenzene	ND		0.0020	0.00027	mg/Kg			07/31/23 21:56	1
1,3-Dichlorobenzene	ND		0.0010	0.00025	mg/Kg			07/31/23 21:56	1
1,3-Dichloropropane	ND		0.0010	0.00030	mg/Kg			07/31/23 21:56	1
1,4-Dichlorobenzene	ND		0.0010	0.00031	mg/Kg			07/31/23 21:56	1
2,2-Dichloropropane	ND		0.0050	0.00027	mg/Kg			07/31/23 21:56	1
2-Chlorotoluene	ND		0.0010	0.00025	mg/Kg			07/31/23 21:56	1
4-Chlorotoluene	ND		0.0010	0.00024	mg/Kg			07/31/23 21:56	1
4-Isopropyltoluene	ND		0.0010	0.00028	mg/Kg			07/31/23 21:56	1
Benzene	ND		0.0010	0.00026	mg/Kg			07/31/23 21:56	1
Bromobenzene	ND		0.0010	0.00021	mg/Kg			07/31/23 21:56	1
Bromochloromethane	ND		0.0020	0.00044	mg/Kg			07/31/23 21:56	1
Bromodichloromethane	ND		0.0010	0.00033	mg/Kg			07/31/23 21:56	1
Bromoform	ND		0.0050	0.0013	mg/Kg			07/31/23 21:56	1
Bromomethane	ND		0.020	0.0066	mg/Kg			07/31/23 21:56	1
Carbon tetrachloride	ND		0.0010	0.00030	mg/Kg			07/31/23 21:56	1
Chlorobenzene	ND		0.0010	0.00027	mg/Kg			07/31/23 21:56	1
Chloroethane	ND		0.0020	0.00074	mg/Kg			07/31/23 21:56	1
Chloroform	ND		0.0010	0.00059	mg/Kg			07/31/23 21:56	1
Chloromethane	ND		0.020	0.0015	mg/Kg			07/31/23 21:56	1
cis-1,2-Dichloroethene	ND		0.0010	0.00034	mg/Kg			07/31/23 21:56	1
cis-1,3-Dichloropropene	ND		0.0010	0.00035	mg/Kg			07/31/23 21:56	1
Dibromochloromethane	ND		0.0020	0.00027	mg/Kg			07/31/23 21:56	1
Dibromomethane	ND		0.0010	0.00031	mg/Kg			07/31/23 21:56	1
Dichlorodifluoromethane	ND		0.0020	0.00045	mg/Kg			07/31/23 21:56	1
Ethylbenzene	ND		0.0010	0.00021	mg/Kg			07/31/23 21:56	1
Hexachlorobutadiene	ND		0.0050	0.0017	mg/Kg			07/31/23 21:56	1
Isopropylbenzene	ND		0.0010	0.00028	mg/Kg			07/31/23 21:56	1
Methyl tert-butyl ether	ND		0.0020	0.00019	mg/Kg			07/31/23 21:56	1
Methylene Chloride	ND		0.010	0.0031	mg/Kg			07/31/23 21:56	1
m-Xylene & p-Xylene	ND		0.0020	0.00047	mg/Kg			07/31/23 21:56	1
Naphthalene	ND		0.010	0.0039	mg/Kg			07/31/23 21:56	1
n-Butylbenzene	ND		0.0010	0.00021	mg/Kg			07/31/23 21:56	1

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 570-350508/6

Matrix: Solid

Analysis Batch: 350508

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0020	0.00026	mg/Kg			07/31/23 21:56	1
o-Xylene	ND		0.0010	0.00026	mg/Kg			07/31/23 21:56	1
sec-Butylbenzene	ND		0.0010	0.00027	mg/Kg			07/31/23 21:56	1
Styrene	ND		0.0010	0.00032	mg/Kg			07/31/23 21:56	1
t-Butylbenzene	ND		0.0010	0.00025	mg/Kg			07/31/23 21:56	1
Tetrachloroethene	ND		0.0010	0.00022	mg/Kg			07/31/23 21:56	1
Toluene	ND		0.0010	0.00027	mg/Kg			07/31/23 21:56	1
trans-1,2-Dichloroethene	ND		0.0010	0.00030	mg/Kg			07/31/23 21:56	1
trans-1,3-Dichloropropene	ND		0.0020	0.00028	mg/Kg			07/31/23 21:56	1
Trichloroethene	ND		0.0020	0.00039	mg/Kg			07/31/23 21:56	1
Trichlorofluoromethane	ND		0.010	0.00027	mg/Kg			07/31/23 21:56	1
Vinyl chloride	ND		0.0010	0.00038	mg/Kg			07/31/23 21:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		32 - 179		07/31/23 21:56	1
4-Bromofluorobenzene (Surr)	99		80 - 120		07/31/23 21:56	1
Toluene-d8 (Surr)	103		80 - 120		07/31/23 21:56	1

Lab Sample ID: LCS 570-350508/3

Matrix: Solid

Analysis Batch: 350508

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	0.0500	0.0521		mg/Kg		104	80 - 125
1,1,1-Trichloroethane	0.0500	0.0522		mg/Kg		104	78 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.0551		mg/Kg		110	80 - 124
1,1,2-Trichloroethane	0.0500	0.0532		mg/Kg		106	80 - 123
1,1-Dichloroethane	0.0500	0.0498		mg/Kg		100	79 - 124
1,1-Dichloroethene	0.0500	0.0535		mg/Kg		107	74 - 132
1,1-Dichloropropene	0.0500	0.0515		mg/Kg		103	78 - 130
1,2,3-Trichlorobenzene	0.0500	0.0519		mg/Kg		104	80 - 123
1,2,3-Trichloropropane	0.0500	0.0463		mg/Kg		93	79 - 120
1,2,4-Trichlorobenzene	0.0500	0.0558		mg/Kg		112	80 - 125
1,2,4-Trimethylbenzene	0.0500	0.0540		mg/Kg		108	80 - 124
1,2-Dibromo-3-Chloropropane	0.0500	0.0486		mg/Kg		97	67 - 120
1,2-Dibromoethane	0.0500	0.0489		mg/Kg		98	80 - 120
1,2-Dichlorobenzene	0.0500	0.0539		mg/Kg		108	80 - 120
1,2-Dichloroethane	0.0500	0.0496		mg/Kg		99	77 - 120
1,2-Dichloropropane	0.0500	0.0521		mg/Kg		104	80 - 126
1,3,5-Trimethylbenzene	0.0500	0.0547		mg/Kg		109	80 - 121
1,3-Dichlorobenzene	0.0500	0.0534		mg/Kg		107	80 - 120
1,3-Dichloropropane	0.0500	0.0527		mg/Kg		105	80 - 120
1,4-Dichlorobenzene	0.0500	0.0534		mg/Kg		107	80 - 120
2,2-Dichloropropane	0.0500	0.0506		mg/Kg		101	73 - 135
2-Chlorotoluene	0.0500	0.0542		mg/Kg		108	80 - 120
4-Chlorotoluene	0.0500	0.0547		mg/Kg		109	80 - 121
4-Isopropyltoluene	0.0500	0.0550		mg/Kg		110	80 - 126
Benzene	0.0500	0.0522		mg/Kg		104	80 - 120

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 570-350508/3

Matrix: Solid

Analysis Batch: 350508

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	0.0500	0.0540		mg/Kg		108	80 - 120
Bromochloromethane	0.0500	0.0512		mg/Kg		102	80 - 120
Bromodichloromethane	0.0500	0.0537		mg/Kg		107	80 - 125
Bromoform	0.0500	0.0509		mg/Kg		102	74 - 138
Bromomethane	0.0500	0.0471		mg/Kg		94	58 - 136
Carbon tetrachloride	0.0500	0.0533		mg/Kg		107	75 - 140
Chlorobenzene	0.0500	0.0502		mg/Kg		100	80 - 120
Chloroethane	0.0500	0.0545		mg/Kg		109	76 - 137
Chloroform	0.0500	0.0535		mg/Kg		107	80 - 121
Chloromethane	0.0500	0.0523		mg/Kg		105	74 - 133
cis-1,2-Dichloroethene	0.0500	0.0519		mg/Kg		104	80 - 124
cis-1,3-Dichloropropene	0.0500	0.0484		mg/Kg		97	80 - 123
Dibromochloromethane	0.0500	0.0518		mg/Kg		104	80 - 132
Dibromomethane	0.0500	0.0526		mg/Kg		105	80 - 120
Dichlorodifluoromethane	0.0500	0.0541		mg/Kg		108	63 - 146
Ethylbenzene	0.0500	0.0533		mg/Kg		107	80 - 120
Hexachlorobutadiene	0.0500	0.0604		mg/Kg		121	80 - 127
Isopropylbenzene	0.0500	0.0579		mg/Kg		116	80 - 122
Methyl tert-butyl ether	0.0500	0.0509		mg/Kg		102	79 - 123
Methylene Chloride	0.0500	0.0517		mg/Kg		103	74 - 120
m-Xylene & p-Xylene	0.100	0.109		mg/Kg		109	80 - 120
Naphthalene	0.0500	0.0499		mg/Kg		100	79 - 121
n-Butylbenzene	0.0500	0.0589		mg/Kg		118	79 - 131
N-Propylbenzene	0.0500	0.0569		mg/Kg		114	80 - 122
o-Xylene	0.0500	0.0530		mg/Kg		106	80 - 120
sec-Butylbenzene	0.0500	0.0548		mg/Kg		110	80 - 125
Styrene	0.0500	0.0520		mg/Kg		104	80 - 120
t-Butylbenzene	0.0500	0.0496		mg/Kg		99	80 - 124
Tetrachloroethene	0.0500	0.0549		mg/Kg		110	80 - 122
Toluene	0.0500	0.0519		mg/Kg		104	80 - 120
trans-1,2-Dichloroethene	0.0500	0.0529		mg/Kg		106	75 - 123
trans-1,3-Dichloropropene	0.0500	0.0524		mg/Kg		105	80 - 124
Trichloroethene	0.0500	0.0535		mg/Kg		107	80 - 127
Trichlorofluoromethane	0.0500	0.0566		mg/Kg		113	70 - 144
Vinyl chloride	0.0500	0.0551		mg/Kg		110	79 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		32 - 179
4-Bromofluorobenzene (Surr)	100		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: LCSD 570-350508/4

Matrix: Solid

Analysis Batch: 350508

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.0500	0.0471		mg/Kg		94	80 - 125	10	20
1,1,1-Trichloroethane	0.0500	0.0484		mg/Kg		97	78 - 130	8	20

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 570-350508/4

Matrix: Solid

Analysis Batch: 350508

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	0.0500	0.0502		mg/Kg		100	80 - 124	9	20
1,1,2-Trichloroethane	0.0500	0.0476		mg/Kg		95	80 - 123	11	20
1,1-Dichloroethane	0.0500	0.0458		mg/Kg		92	79 - 124	8	20
1,1-Dichloroethene	0.0500	0.0484		mg/Kg		97	74 - 132	10	20
1,1-Dichloropropene	0.0500	0.0477		mg/Kg		95	78 - 130	8	20
1,2,3-Trichlorobenzene	0.0500	0.0488		mg/Kg		98	80 - 123	6	20
1,2,3-Trichloropropane	0.0500	0.0423		mg/Kg		85	79 - 120	9	20
1,2,4-Trichlorobenzene	0.0500	0.0527		mg/Kg		105	80 - 125	6	20
1,2,4-Trimethylbenzene	0.0500	0.0505		mg/Kg		101	80 - 124	7	20
1,2-Dibromo-3-Chloropropane	0.0500	0.0443		mg/Kg		89	67 - 120	9	20
1,2-Dibromoethane	0.0500	0.0440		mg/Kg		88	80 - 120	11	20
1,2-Dichlorobenzene	0.0500	0.0510		mg/Kg		102	80 - 120	6	20
1,2-Dichloroethane	0.0500	0.0483		mg/Kg		97	77 - 120	3	20
1,2-Dichloropropane	0.0500	0.0478		mg/Kg		96	80 - 126	9	20
1,3,5-Trimethylbenzene	0.0500	0.0492		mg/Kg		98	80 - 121	11	20
1,3-Dichlorobenzene	0.0500	0.0508		mg/Kg		102	80 - 120	5	20
1,3-Dichloropropane	0.0500	0.0500		mg/Kg		100	80 - 120	5	20
1,4-Dichlorobenzene	0.0500	0.0497		mg/Kg		99	80 - 120	7	20
2,2-Dichloropropane	0.0500	0.0461		mg/Kg		92	73 - 135	9	20
2-Chlorotoluene	0.0500	0.0482		mg/Kg		96	80 - 120	12	20
4-Chlorotoluene	0.0500	0.0510		mg/Kg		102	80 - 121	7	20
4-Isopropyltoluene	0.0500	0.0511		mg/Kg		102	80 - 126	7	20
Benzene	0.0500	0.0497		mg/Kg		99	80 - 120	5	20
Bromobenzene	0.0500	0.0500		mg/Kg		100	80 - 120	8	20
Bromochloromethane	0.0500	0.0491		mg/Kg		98	80 - 120	4	20
Bromodichloromethane	0.0500	0.0519		mg/Kg		104	80 - 125	3	20
Bromoform	0.0500	0.0492		mg/Kg		98	74 - 138	3	20
Bromomethane	0.0500	0.0454		mg/Kg		91	58 - 136	4	20
Carbon tetrachloride	0.0500	0.0490		mg/Kg		98	75 - 140	8	20
Chlorobenzene	0.0500	0.0464		mg/Kg		93	80 - 120	8	20
Chloroethane	0.0500	0.0514		mg/Kg		103	76 - 137	6	20
Chloroform	0.0500	0.0497		mg/Kg		99	80 - 121	7	20
Chloromethane	0.0500	0.0501		mg/Kg		100	74 - 133	4	20
cis-1,2-Dichloroethene	0.0500	0.0473		mg/Kg		95	80 - 124	9	20
cis-1,3-Dichloropropene	0.0500	0.0465		mg/Kg		93	80 - 123	4	20
Dibromochloromethane	0.0500	0.0471		mg/Kg		94	80 - 132	10	20
Dibromomethane	0.0500	0.0497		mg/Kg		99	80 - 120	6	20
Dichlorodifluoromethane	0.0500	0.0518		mg/Kg		104	63 - 146	4	20
Ethylbenzene	0.0500	0.0486		mg/Kg		97	80 - 120	9	20
Hexachlorobutadiene	0.0500	0.0553		mg/Kg		111	80 - 127	9	20
Isopropylbenzene	0.0500	0.0530		mg/Kg		106	80 - 122	9	20
Methyl tert-butyl ether	0.0500	0.0478		mg/Kg		96	79 - 123	6	20
Methylene Chloride	0.0500	0.0478		mg/Kg		96	74 - 120	8	20
m-Xylene & p-Xylene	0.100	0.0991		mg/Kg		99	80 - 120	9	20
Naphthalene	0.0500	0.0473		mg/Kg		95	79 - 121	6	20
n-Butylbenzene	0.0500	0.0547		mg/Kg		109	79 - 131	7	20
N-Propylbenzene	0.0500	0.0508		mg/Kg		102	80 - 122	11	20
o-Xylene	0.0500	0.0491		mg/Kg		98	80 - 120	8	20
sec-Butylbenzene	0.0500	0.0505		mg/Kg		101	80 - 125	8	20

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 570-350508/4

Matrix: Solid

Analysis Batch: 350508

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Styrene	0.0500	0.0482		mg/Kg		96	80 - 120	8	20
t-Butylbenzene	0.0500	0.0496		mg/Kg		99	80 - 124	0	20
Tetrachloroethene	0.0500	0.0485		mg/Kg		97	80 - 122	13	20
Toluene	0.0500	0.0479		mg/Kg		96	80 - 120	8	20
trans-1,2-Dichloroethene	0.0500	0.0498		mg/Kg		100	75 - 123	6	20
trans-1,3-Dichloropropene	0.0500	0.0480		mg/Kg		96	80 - 124	9	20
Trichloroethene	0.0500	0.0510		mg/Kg		102	80 - 127	5	20
Trichlorofluoromethane	0.0500	0.0540		mg/Kg		108	70 - 144	5	20
Vinyl chloride	0.0500	0.0528		mg/Kg		106	79 - 133	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		32 - 179
4-Bromofluorobenzene (Surr)	98		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-432883/7

Matrix: Water

Analysis Batch: 432883

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.038	ug/L			07/27/23 03:16	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			07/27/23 03:16	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			07/27/23 03:16	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			07/27/23 03:16	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			07/27/23 03:16	1
1,1-Dichloroethene	ND		0.20	0.035	ug/L			07/27/23 03:16	1
1,1-Dichloropropene	ND		0.20	0.084	ug/L			07/27/23 03:16	1
1,2,3-Trichlorobenzene	0.355	J	0.50	0.15	ug/L			07/27/23 03:16	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			07/27/23 03:16	1
1,2,4-Trichlorobenzene	0.229	J	0.50	0.17	ug/L			07/27/23 03:16	1
1,2,4-Trimethylbenzene	ND		0.50	0.20	ug/L			07/27/23 03:16	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.17	ug/L			07/27/23 03:16	1
1,2-Dichlorobenzene	0.0797	J	0.30	0.038	ug/L			07/27/23 03:16	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			07/27/23 03:16	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			07/27/23 03:16	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			07/27/23 03:16	1
1,3-Dichlorobenzene	0.0754	J	0.30	0.050	ug/L			07/27/23 03:16	1
1,3-Dichloropropane	ND		0.20	0.025	ug/L			07/27/23 03:16	1
1,4-Dichlorobenzene	0.0564	J	0.30	0.050	ug/L			07/27/23 03:16	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			07/27/23 03:16	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			07/27/23 03:16	1
4-Chlorotoluene	ND		0.30	0.12	ug/L			07/27/23 03:16	1
4-Isopropyltoluene	ND		0.50	0.15	ug/L			07/27/23 03:16	1
Benzene	ND		0.20	0.030	ug/L			07/27/23 03:16	1
Bromobenzene	ND		0.20	0.038	ug/L			07/27/23 03:16	1
Bromoform	ND		0.50	0.16	ug/L			07/27/23 03:16	1
Bromomethane	ND		0.50	0.13	ug/L			07/27/23 03:16	1

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-432883/7

Matrix: Water

Analysis Batch: 432883

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.20	0.025	ug/L			07/27/23 03:16	1
Chlorobenzene	ND		0.20	0.060	ug/L			07/27/23 03:16	1
Chlorobromomethane	ND		0.20	0.050	ug/L			07/27/23 03:16	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			07/27/23 03:16	1
Chloroethane	ND		0.50	0.096	ug/L			07/27/23 03:16	1
Chloroform	ND		0.20	0.030	ug/L			07/27/23 03:16	1
Chloromethane	ND		0.50	0.14	ug/L			07/27/23 03:16	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			07/27/23 03:16	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			07/27/23 03:16	1
Dibromomethane	ND		0.20	0.062	ug/L			07/27/23 03:16	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			07/27/23 03:16	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			07/27/23 03:16	1
Ethylbenzene	ND		0.20	0.030	ug/L			07/27/23 03:16	1
Ethylene Dibromide	ND		0.10	0.025	ug/L			07/27/23 03:16	1
Hexachlorobutadiene	0.135	J	0.50	0.067	ug/L			07/27/23 03:16	1
Isopropylbenzene	ND		1.0	0.19	ug/L			07/27/23 03:16	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			07/27/23 03:16	1
Methylene Chloride	ND		5.0	1.2	ug/L			07/27/23 03:16	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			07/27/23 03:16	1
Naphthalene	ND		1.0	0.22	ug/L			07/27/23 03:16	1
n-Butylbenzene	ND		1.0	0.23	ug/L			07/27/23 03:16	1
N-Propylbenzene	ND		0.30	0.091	ug/L			07/27/23 03:16	1
o-Xylene	ND		0.50	0.15	ug/L			07/27/23 03:16	1
sec-Butylbenzene	ND		1.0	0.17	ug/L			07/27/23 03:16	1
Styrene	ND		1.0	0.19	ug/L			07/27/23 03:16	1
tert-Butylbenzene	ND		0.50	0.26	ug/L			07/27/23 03:16	1
Tetrachloroethene	ND		0.50	0.084	ug/L			07/27/23 03:16	1
Toluene	ND		0.20	0.050	ug/L			07/27/23 03:16	1
trans-1,2-Dichloroethene	ND		0.20	0.033	ug/L			07/27/23 03:16	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			07/27/23 03:16	1
Trichloroethene	ND		0.20	0.066	ug/L			07/27/23 03:16	1
Trichlorofluoromethane	ND		0.50	0.12	ug/L			07/27/23 03:16	1
Vinyl chloride	ND		0.10	0.040	ug/L			07/27/23 03:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		80 - 120		07/27/23 03:16	1
4-Bromofluorobenzene (Surr)	88		80 - 120		07/27/23 03:16	1
Dibromofluoromethane (Surr)	100		80 - 120		07/27/23 03:16	1
Toluene-d8 (Surr)	104		80 - 120		07/27/23 03:16	1

Lab Sample ID: LCS 580-432883/4

Matrix: Water

Analysis Batch: 432883

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	5.00	4.61		ug/L		92	69 - 127
1,1,1-Trichloroethane	5.00	4.61		ug/L		92	70 - 121
1,1,2,2-Tetrachloroethane	5.00	5.07		ug/L		101	67 - 136

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-432883/4

Matrix: Water

Analysis Batch: 432883

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	5.00	5.31		ug/L		106	73 - 127
1,1-Dichloroethane	5.00	4.88		ug/L		98	74 - 120
1,1-Dichloroethene	5.00	4.76		ug/L		95	60 - 129
1,1-Dichloropropene	5.00	5.00		ug/L		100	72 - 125
1,2,3-Trichlorobenzene	5.00	5.59		ug/L		112	60 - 136
1,2,3-Trichloropropane	5.00	5.76		ug/L		115	67 - 135
1,2,4-Trichlorobenzene	5.00	5.35		ug/L		107	60 - 130
1,2,4-Trimethylbenzene	5.00	5.33		ug/L		107	71 - 127
1,2-Dibromo-3-Chloropropane	5.00	4.52		ug/L		90	55 - 135
1,2-Dichlorobenzene	5.00	5.33		ug/L		107	72 - 129
1,2-Dichloroethane	5.00	5.03		ug/L		101	74 - 127
1,2-Dichloropropane	5.00	5.24		ug/L		105	69 - 130
1,3,5-Trimethylbenzene	5.00	5.26		ug/L		105	75 - 123
1,3-Dichlorobenzene	5.00	5.25		ug/L		105	72 - 125
1,3-Dichloropropane	5.00	5.40		ug/L		108	69 - 138
1,4-Dichlorobenzene	5.00	5.18		ug/L		104	71 - 129
2,2-Dichloropropane	5.00	4.24		ug/L		85	55 - 140
2-Chlorotoluene	5.00	5.29		ug/L		106	73 - 120
4-Chlorotoluene	5.00	5.31		ug/L		106	75 - 124
4-Isopropyltoluene	5.00	5.24		ug/L		105	78 - 125
Benzene	5.00	4.91		ug/L		98	80 - 120
Bromobenzene	5.00	5.19		ug/L		104	74 - 130
Bromoform	5.00	3.74		ug/L		75	48 - 127
Bromomethane	5.00	4.60		ug/L		92	51 - 148
Carbon tetrachloride	5.00	4.47		ug/L		89	66 - 130
Chlorobenzene	5.00	4.98		ug/L		100	74 - 123
Chlorobromomethane	5.00	4.98		ug/L		100	79 - 121
Chlorodibromomethane	5.00	4.23		ug/L		85	62 - 141
Chloroethane	5.00	4.85		ug/L		97	54 - 140
Chloroform	5.00	4.83		ug/L		97	75 - 120
Chloromethane	5.00	4.57		ug/L		91	32 - 150
cis-1,2-Dichloroethene	5.00	4.72		ug/L		94	72 - 120
cis-1,3-Dichloropropene	5.00	5.08		ug/L		102	77 - 131
Dibromomethane	5.00	5.21		ug/L		104	65 - 141
Dichlorobromomethane	5.00	4.60		ug/L		92	74 - 131
Dichlorodifluoromethane	5.00	4.64		ug/L		93	20 - 150
Ethylbenzene	5.00	5.11		ug/L		102	80 - 124
Ethylene Dibromide	5.00	5.22		ug/L		104	61 - 143
Hexachlorobutadiene	5.00	4.98		ug/L		100	63 - 130
Isopropylbenzene	5.00	5.04		ug/L		101	71 - 123
Methyl tert-butyl ether	5.00	5.03		ug/L		101	61 - 131
Methylene Chloride	5.00	4.82	J	ug/L		96	40 - 142
m-Xylene & p-Xylene	5.00	5.08		ug/L		102	75 - 124
Naphthalene	5.00	5.49		ug/L		110	54 - 137
n-Butylbenzene	5.00	5.32		ug/L		106	69 - 127
N-Propylbenzene	5.00	5.25		ug/L		105	72 - 126
o-Xylene	5.00	5.10		ug/L		102	71 - 124
sec-Butylbenzene	5.00	5.24		ug/L		105	75 - 126
Styrene	5.00	5.14		ug/L		103	74 - 127

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-432883/4

Matrix: Water

Analysis Batch: 432883

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
tert-Butylbenzene	5.00	5.20		ug/L		104	70 - 129
Tetrachloroethene	5.00	5.00		ug/L		100	75 - 124
Toluene	5.00	5.14		ug/L		103	80 - 126
trans-1,2-Dichloroethene	5.00	4.83		ug/L		97	69 - 121
trans-1,3-Dichloropropene	5.00	5.01		ug/L		100	71 - 138
Trichloroethene	5.00	4.97		ug/L		99	72 - 120
Trichlorofluoromethane	5.00	4.77		ug/L		95	60 - 132
Vinyl chloride	5.00	4.72		ug/L		94	41 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	97		80 - 120
Toluene-d8 (Surr)	103		80 - 120

Lab Sample ID: LCSD 580-432883/5

Matrix: Water

Analysis Batch: 432883

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	5.00	4.71		ug/L		94	69 - 127	2	22
1,1,1-Trichloroethane	5.00	4.89		ug/L		98	70 - 121	6	24
1,1,2,2-Tetrachloroethane	5.00	4.67		ug/L		93	67 - 136	8	24
1,1,2-Trichloroethane	5.00	4.94		ug/L		99	73 - 127	7	22
1,1-Dichloroethane	5.00	5.10		ug/L		102	74 - 120	4	26
1,1-Dichloroethene	5.00	5.06		ug/L		101	60 - 129	6	29
1,1-Dichloropropene	5.00	4.94		ug/L		99	72 - 125	1	23
1,2,3-Trichlorobenzene	5.00	5.79		ug/L		116	60 - 136	4	28
1,2,3-Trichloropropane	5.00	5.30		ug/L		106	67 - 135	8	25
1,2,4-Trichlorobenzene	5.00	5.36		ug/L		107	60 - 130	0	26
1,2,4-Trimethylbenzene	5.00	5.23		ug/L		105	71 - 127	2	23
1,2-Dibromo-3-Chloropropane	5.00	4.11		ug/L		82	55 - 135	9	29
1,2-Dichlorobenzene	5.00	5.21		ug/L		104	72 - 129	2	22
1,2-Dichloroethane	5.00	4.85		ug/L		97	74 - 127	4	21
1,2-Dichloropropane	5.00	5.06		ug/L		101	69 - 130	3	22
1,3,5-Trimethylbenzene	5.00	5.10		ug/L		102	75 - 123	3	23
1,3-Dichlorobenzene	5.00	5.14		ug/L		103	72 - 125	2	22
1,3-Dichloropropane	5.00	4.92		ug/L		98	69 - 138	9	19
1,4-Dichlorobenzene	5.00	5.10		ug/L		102	71 - 129	1	22
2,2-Dichloropropane	5.00	4.47		ug/L		89	55 - 140	5	31
2-Chlorotoluene	5.00	4.99		ug/L		100	73 - 120	6	22
4-Chlorotoluene	5.00	5.07		ug/L		101	75 - 124	5	23
4-Isopropyltoluene	5.00	5.21		ug/L		104	78 - 125	0	24
Benzene	5.00	4.88		ug/L		98	80 - 120	1	22
Bromobenzene	5.00	4.73		ug/L		95	74 - 130	9	23
Bromoform	5.00	3.73		ug/L		75	48 - 127	0	23
Bromomethane	5.00	4.83		ug/L		97	51 - 148	5	35
Carbon tetrachloride	5.00	4.72		ug/L		94	66 - 130	6	24

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-432883/5

Matrix: Water

Analysis Batch: 432883

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene	5.00	4.92		ug/L		98	74 - 123	1	21
Chlorobromomethane	5.00	5.10		ug/L		102	79 - 121	2	20
Chlorodibromomethane	5.00	4.06		ug/L		81	62 - 141	4	22
Chloroethane	5.00	5.12		ug/L		102	54 - 140	5	33
Chloroform	5.00	4.94		ug/L		99	75 - 120	2	21
Chloromethane	5.00	4.80		ug/L		96	32 - 150	5	33
cis-1,2-Dichloroethene	5.00	4.94		ug/L		99	72 - 120	5	22
cis-1,3-Dichloropropene	5.00	4.71		ug/L		94	77 - 131	7	24
Dibromomethane	5.00	5.07		ug/L		101	65 - 141	3	22
Dichlorobromomethane	5.00	4.40		ug/L		88	74 - 131	4	21
Dichlorodifluoromethane	5.00	5.08		ug/L		102	20 - 150	9	30
Ethylbenzene	5.00	5.05		ug/L		101	80 - 124	1	22
Ethylene Dibromide	5.00	4.99		ug/L		100	61 - 143	4	22
Hexachlorobutadiene	5.00	5.31		ug/L		106	63 - 130	6	26
Isopropylbenzene	5.00	5.21		ug/L		104	71 - 123	3	23
Methyl tert-butyl ether	5.00	5.19		ug/L		104	61 - 131	3	27
Methylene Chloride	5.00	5.12		ug/L		102	40 - 142	6	25
m-Xylene & p-Xylene	5.00	5.04		ug/L		101	75 - 124	1	22
Naphthalene	5.00	5.24		ug/L		105	54 - 137	5	28
n-Butylbenzene	5.00	5.26		ug/L		105	69 - 127	1	24
N-Propylbenzene	5.00	4.93		ug/L		99	72 - 126	6	20
o-Xylene	5.00	5.19		ug/L		104	71 - 124	2	23
sec-Butylbenzene	5.00	5.17		ug/L		103	75 - 126	1	23
Styrene	5.00	5.08		ug/L		102	74 - 127	1	22
tert-Butylbenzene	5.00	4.96		ug/L		99	70 - 129	5	24
Tetrachloroethene	5.00	4.78		ug/L		96	75 - 124	4	20
Toluene	5.00	4.92		ug/L		98	80 - 126	5	20
trans-1,2-Dichloroethene	5.00	5.12		ug/L		102	69 - 121	6	27
trans-1,3-Dichloropropene	5.00	4.58		ug/L		92	71 - 138	9	26
Trichloroethene	5.00	4.91		ug/L		98	72 - 120	1	22
Trichlorofluoromethane	5.00	5.04		ug/L		101	60 - 132	5	32
Vinyl chloride	5.00	4.90		ug/L		98	41 - 150	4	32

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	101		80 - 120

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 580-433010/6-A

Matrix: Solid

Analysis Batch: 433291

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 433010

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0	0.57	mg/Kg		07/31/23 09:05	07/31/23 13:16	1

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: MB 580-433010/6-A

Matrix: Solid

Analysis Batch: 433291

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 433010

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	95		66 - 125		07/31/23 09:05	07/31/23 13:16	1			

Lab Sample ID: LCS 580-433010/9-A

Matrix: Solid

Analysis Batch: 433291

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 433010

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline			40.0	42.3		mg/Kg		106	80 - 120	
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	101		66 - 125							

Lab Sample ID: LCSD 580-433010/10-A

Matrix: Solid

Analysis Batch: 433291

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 433010

			Spike	LCSD	LCSD				%Rec	RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	Limit
Gasoline			40.0	39.1		mg/Kg		98	80 - 120	8 10
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	103		66 - 125							

Lab Sample ID: MB 580-433147/6

Matrix: Water

Analysis Batch: 433147

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline	ND		0.050	0.014	mg/L			07/28/23 19:19	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	95		77 - 123					07/28/23 19:19	1	

Lab Sample ID: LCS 580-433147/9

Matrix: Water

Analysis Batch: 433147

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline			1.00	0.963		mg/L		96	55 - 148	
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	99		77 - 123							

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: LCSD 580-433147/10

Matrix: Water

Analysis Batch: 433147

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline	1.00	0.890		mg/L		89	55 - 148	8	10
Surrogate	%Recovery	LCSD Qualifier	LCSD Limits						
4-Bromofluorobenzene (Surr)	98		77 - 123						

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-432699/1-A

Matrix: Solid

Analysis Batch: 432870

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 432699

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.050	0.0060	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
1,2-Dichlorobenzene	ND		0.050	0.0050	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
1,3-Dichlorobenzene	ND		0.050	0.0048	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
1,4-Dichlorobenzene	ND		0.050	0.0083	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
1-Methylnaphthalene	ND		0.030	0.0050	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
2,4,5-Trichlorophenol	ND		0.20	0.0081	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
2,4,6-Trichlorophenol	ND		0.15	0.013	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
2,4-Dichlorophenol	ND		0.20	0.028	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
2,4-Dimethylphenol	ND		0.20	0.060	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
2,4-Dinitrophenol	ND		2.0	0.59	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
2,4-Dinitrotoluene	ND		0.20	0.043	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
2,6-Dinitrotoluene	ND		0.15	0.015	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
2-Chloronaphthalene	ND		0.025	0.0050	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
2-Chlorophenol	ND		0.20	0.0040	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
2-Methylnaphthalene	ND		0.050	0.0088	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
2-Methylphenol	ND		0.15	0.0098	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
2-Nitroaniline	ND		0.10	0.015	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
2-Nitrophenol	ND		0.20	0.0062	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
3 & 4 Methylphenol	ND		0.20	0.015	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
3,3'-Dichlorobenzidine	ND		0.40	0.084	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
3-Nitroaniline	ND		0.30	0.10	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
4,6-Dinitro-2-methylphenol	ND		1.0	0.10	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
4-Bromophenyl phenyl ether	ND		0.20	0.0091	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
4-Chloro-3-methylphenol	ND		0.15	0.033	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
4-Chloroaniline	ND		1.5	0.13	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
4-Chlorophenyl phenyl ether	ND		0.20	0.0063	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
4-Nitroaniline	ND		0.15	0.050	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
4-Nitrophenol	ND		2.0	0.17	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Acenaphthene	ND		0.040	0.0046	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Acenaphthylene	ND		0.025	0.0050	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Anthracene	ND		0.060	0.016	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Benzo[a]anthracene	ND		0.040	0.011	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Benzo[a]pyrene	ND		0.060	0.013	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Benzo[b]fluoranthene	ND		0.040	0.010	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Benzo[g,h,i]perylene	ND		0.060	0.018	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Benzo[k]fluoranthene	ND		0.060	0.014	mg/Kg		07/26/23 10:22	07/27/23 11:21	1

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-432699/1-A

Matrix: Solid

Analysis Batch: 432870

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 432699

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzoic acid	ND		4.0	1.2	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Benzyl alcohol	ND		1.0	0.050	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Bis(2-chloroethoxy)methane	ND		0.20	0.018	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Bis(2-chloroethyl)ether	ND		0.10	0.0077	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Bis(2-ethylhexyl) phthalate	ND		0.60	0.071	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
bis(chloroisopropyl) ether	ND		0.20	0.0061	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Butyl benzyl phthalate	ND		0.20	0.051	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Carbazole	ND		0.15	0.0073	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Chrysene	ND		0.060	0.013	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Dibenz(a,h)anthracene	ND		0.050	0.012	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Dibenzofuran	ND		0.15	0.0059	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Diethyl phthalate	ND		0.40	0.022	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Dimethyl phthalate	ND		0.15	0.0050	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Di-n-butyl phthalate	ND		0.50	0.027	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Di-n-octyl phthalate	ND		0.15	0.012	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Fluoranthene	ND		0.040	0.012	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Fluorene	ND		0.025	0.0050	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Hexachlorobenzene	ND		0.050	0.015	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Hexachlorobutadiene	ND		0.050	0.015	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Hexachlorocyclopentadiene	ND		0.10	0.0077	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Hexachloroethane	ND		0.15	0.0043	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Indeno[1,2,3-cd]pyrene	ND		0.040	0.012	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Isophorone	ND		0.15	0.0084	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Naphthalene	ND		0.025	0.0050	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Nitrobenzene	ND		0.20	0.020	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
N-Nitrosodi-n-propylamine	ND		0.20	0.022	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
N-Nitrosodiphenylamine	ND		0.060	0.0080	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Pentachlorophenol	ND		0.40	0.063	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Phenanthrene	ND		0.060	0.0058	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Phenol	ND		0.15	0.023	mg/Kg		07/26/23 10:22	07/27/23 11:21	1
Pyrene	ND		0.060	0.013	mg/Kg		07/26/23 10:22	07/27/23 11:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		62 - 122	07/26/23 10:22	07/27/23 11:21	1
2-Fluorobiphenyl	88		64 - 120	07/26/23 10:22	07/27/23 11:21	1
2-Fluorophenol (Surr)	86		58 - 120	07/26/23 10:22	07/27/23 11:21	1
Nitrobenzene-d5 (Surr)	93		63 - 120	07/26/23 10:22	07/27/23 11:21	1
Phenol-d5 (Surr)	84		59 - 120	07/26/23 10:22	07/27/23 11:21	1
Terphenyl-d14 (Surr)	94		73 - 125	07/26/23 10:22	07/27/23 11:21	1

Lab Sample ID: LCS 580-432699/2-A

Matrix: Solid

Analysis Batch: 432870

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 432699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	2.00	1.93		mg/Kg		97	66 - 125
1,2-Dichlorobenzene	2.00	1.80		mg/Kg		90	68 - 120
1,3-Dichlorobenzene	2.00	1.84		mg/Kg		92	65 - 120

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-432699/2-A

Matrix: Solid

Analysis Batch: 432870

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 432699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	2.00	1.85		mg/Kg		92	68 - 120
1-Methylnaphthalene	2.00	1.92		mg/Kg		96	69 - 120
2,4,5-Trichlorophenol	2.00	1.90		mg/Kg		95	60 - 120
2,4,6-Trichlorophenol	2.00	1.97		mg/Kg		99	68 - 120
2,4-Dichlorophenol	2.00	1.92		mg/Kg		96	63 - 120
2,4-Dimethylphenol	2.00	1.89		mg/Kg		95	55 - 120
2,4-Dinitrophenol	4.00	2.94		mg/Kg		74	10 - 139
2,4-Dinitrotoluene	2.00	2.08		mg/Kg		104	63 - 120
2,6-Dinitrotoluene	2.00	1.91		mg/Kg		96	70 - 126
2-Chloronaphthalene	2.00	1.93		mg/Kg		96	65 - 120
2-Chlorophenol	2.00	1.96		mg/Kg		98	66 - 120
2-Methylnaphthalene	2.00	1.94		mg/Kg		97	75 - 120
2-Methylphenol	2.00	1.87		mg/Kg		94	53 - 120
2-Nitroaniline	2.00	1.97		mg/Kg		99	65 - 120
2-Nitrophenol	2.00	2.00		mg/Kg		100	67 - 131
3 & 4 Methylphenol	2.00	1.94		mg/Kg		97	54 - 120
3,3'-Dichlorobenzidine	4.00	3.02		mg/Kg		75	41 - 137
3-Nitroaniline	2.00	1.75		mg/Kg		88	28 - 120
4,6-Dinitro-2-methylphenol	4.00	3.73		mg/Kg		93	10 - 141
4-Bromophenyl phenyl ether	2.00	2.01		mg/Kg		101	65 - 127
4-Chloro-3-methylphenol	2.00	2.01		mg/Kg		101	55 - 120
4-Chloroaniline	2.00	1.68		mg/Kg		84	10 - 120
4-Chlorophenyl phenyl ether	2.00	1.92		mg/Kg		96	70 - 120
4-Nitroaniline	2.00	2.04		mg/Kg		102	53 - 123
4-Nitrophenol	4.00	3.90		mg/Kg		97	26 - 140
Acenaphthene	2.00	1.90		mg/Kg		95	64 - 120
Acenaphthylene	2.00	1.99		mg/Kg		100	72 - 120
Anthracene	2.00	1.98		mg/Kg		99	67 - 120
Benzo[a]anthracene	2.00	2.03		mg/Kg		102	60 - 135
Benzo[a]pyrene	2.00	1.98		mg/Kg		99	70 - 129
Benzo[b]fluoranthene	2.00	1.98		mg/Kg		99	58 - 136
Benzo[g,h,i]perylene	2.00	1.89		mg/Kg		95	50 - 130
Benzo[k]fluoranthene	2.00	1.86		mg/Kg		93	57 - 142
Benzoic acid	4.00	1.99	J	mg/Kg		50	10 - 120
Benzyl alcohol	2.00	2.02		mg/Kg		101	10 - 134
Bis(2-chloroethoxy)methane	2.00	2.00		mg/Kg		100	60 - 120
Bis(2-chloroethyl)ether	2.00	1.93		mg/Kg		97	61 - 120
Bis(2-ethylhexyl) phthalate	2.00	2.08		mg/Kg		104	56 - 150
bis(chloroisopropyl) ether	2.00	1.82		mg/Kg		91	39 - 129
Butyl benzyl phthalate	2.00	1.99		mg/Kg		100	58 - 150
Carbazole	2.00	2.00		mg/Kg		100	76 - 150
Chrysene	2.00	1.81		mg/Kg		91	69 - 127
Dibenz(a,h)anthracene	2.00	1.90		mg/Kg		95	51 - 139
Dibenzofuran	2.00	1.94		mg/Kg		97	68 - 120
Diethyl phthalate	2.00	1.92		mg/Kg		96	71 - 120
Dimethyl phthalate	2.00	1.93		mg/Kg		96	71 - 120
Di-n-butyl phthalate	2.00	1.91		mg/Kg		95	66 - 135
Di-n-octyl phthalate	2.00	1.98		mg/Kg		99	53 - 150
Fluoranthene	2.00	1.96		mg/Kg		98	69 - 133

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-432699/2-A

Matrix: Solid

Analysis Batch: 432870

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 432699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluorene	2.00	1.96		mg/Kg		98	68 - 121
Hexachlorobenzene	2.00	1.86		mg/Kg		93	65 - 126
Hexachlorobutadiene	2.00	1.88		mg/Kg		94	56 - 146
Hexachlorocyclopentadiene	2.00	1.82		mg/Kg		91	36 - 124
Hexachloroethane	2.00	1.83		mg/Kg		92	68 - 120
Indeno[1,2,3-cd]pyrene	2.00	2.04		mg/Kg		102	43 - 133
Isophorone	2.00	1.98		mg/Kg		99	61 - 123
Naphthalene	2.00	1.84		mg/Kg		92	68 - 120
Nitrobenzene	2.00	1.93		mg/Kg		97	57 - 128
N-Nitrosodi-n-propylamine	2.00	1.93		mg/Kg		97	63 - 120
N-Nitrosodiphenylamine	2.00	1.99		mg/Kg		99	67 - 120
Pentachlorophenol	4.00	3.73		mg/Kg		93	18 - 133
Phenanthrene	2.00	1.87		mg/Kg		93	74 - 120
Phenol	2.00	1.97		mg/Kg		98	59 - 120
Pyrene	2.00	1.97		mg/Kg		98	68 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	87		62 - 122
2-Fluorobiphenyl	86		64 - 120
2-Fluorophenol (Surr)	82		58 - 120
Nitrobenzene-d5 (Surr)	88		63 - 120
Phenol-d5 (Surr)	83		59 - 120
Terphenyl-d14 (Surr)	90		73 - 125

Lab Sample ID: LCSD 580-432699/3-A

Matrix: Solid

Analysis Batch: 432870

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 432699

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	2.00	1.87		mg/Kg		94	66 - 125	3	18
1,2-Dichlorobenzene	2.00	1.80		mg/Kg		90	68 - 120	0	30
1,3-Dichlorobenzene	2.00	1.82		mg/Kg		91	65 - 120	1	29
1,4-Dichlorobenzene	2.00	1.84		mg/Kg		92	68 - 120	0	35
1-Methylnaphthalene	2.00	1.91		mg/Kg		96	69 - 120	1	24
2,4,5-Trichlorophenol	2.00	1.88		mg/Kg		94	60 - 120	1	23
2,4,6-Trichlorophenol	2.00	1.97		mg/Kg		99	68 - 120	0	20
2,4-Dichlorophenol	2.00	1.85		mg/Kg		92	63 - 120	4	19
2,4-Dimethylphenol	2.00	1.84		mg/Kg		92	55 - 120	3	40
2,4-Dinitrophenol	4.00	3.99		mg/Kg		100	10 - 139	30	40
2,4-Dinitrotoluene	2.00	2.02		mg/Kg		101	63 - 120	3	23
2,6-Dinitrotoluene	2.00	1.90		mg/Kg		95	70 - 126	1	18
2-Chloronaphthalene	2.00	1.91		mg/Kg		96	65 - 120	1	21
2-Chlorophenol	2.00	1.91		mg/Kg		95	66 - 120	3	32
2-Methylnaphthalene	2.00	1.93		mg/Kg		97	75 - 120	1	21
2-Methylphenol	2.00	1.87		mg/Kg		94	53 - 120	0	40
2-Nitroaniline	2.00	1.89		mg/Kg		95	65 - 120	4	16
2-Nitrophenol	2.00	1.96		mg/Kg		98	67 - 131	2	30
3 & 4 Methylphenol	2.00	1.92		mg/Kg		96	54 - 120	1	36

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-432699/3-A

Matrix: Solid

Analysis Batch: 432870

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 432699

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
3,3'-Dichlorobenzidine	4.00	2.75		mg/Kg		69	41 - 137	9	40
3-Nitroaniline	2.00	1.76		mg/Kg		88	28 - 120	1	25
4,6-Dinitro-2-methylphenol	4.00	3.90		mg/Kg		97	10 - 141	4	40
4-Bromophenyl phenyl ether	2.00	1.89		mg/Kg		94	65 - 127	6	32
4-Chloro-3-methylphenol	2.00	1.95		mg/Kg		98	55 - 120	3	25
4-Chloroaniline	2.00	1.59		mg/Kg		79	10 - 120	5	40
4-Chlorophenyl phenyl ether	2.00	1.85		mg/Kg		93	70 - 120	3	21
4-Nitroaniline	2.00	1.86		mg/Kg		93	53 - 123	10	23
4-Nitrophenol	4.00	3.71		mg/Kg		93	26 - 140	5	31
Acenaphthene	2.00	1.85		mg/Kg		93	64 - 120	3	19
Acenaphthylene	2.00	1.96		mg/Kg		98	72 - 120	2	18
Anthracene	2.00	1.86		mg/Kg		93	67 - 120	6	28
Benzo[a]anthracene	2.00	1.99		mg/Kg		99	60 - 135	2	21
Benzo[a]pyrene	2.00	1.95		mg/Kg		97	70 - 129	2	27
Benzo[b]fluoranthene	2.00	1.92		mg/Kg		96	58 - 136	3	25
Benzo[g,h,i]perylene	2.00	1.85		mg/Kg		92	50 - 130	2	26
Benzo[k]fluoranthene	2.00	1.82		mg/Kg		91	57 - 142	3	18
Benzoic acid	4.00	3.35	J *1	mg/Kg		84	10 - 120	51	40
Benzyl alcohol	2.00	1.88		mg/Kg		94	10 - 134	7	40
Bis(2-chloroethoxy)methane	2.00	1.96		mg/Kg		98	60 - 120	2	33
Bis(2-chloroethyl)ether	2.00	1.87		mg/Kg		94	61 - 120	3	30
Bis(2-ethylhexyl) phthalate	2.00	2.03		mg/Kg		101	56 - 150	2	25
bis(chloroisopropyl) ether	2.00	1.78		mg/Kg		89	39 - 129	2	33
Butyl benzyl phthalate	2.00	1.91		mg/Kg		95	58 - 150	4	27
Carbazole	2.00	1.89		mg/Kg		95	76 - 150	6	24
Chrysene	2.00	1.71		mg/Kg		85	69 - 127	6	27
Dibenz(a,h)anthracene	2.00	1.86		mg/Kg		93	51 - 139	2	29
Dibenzofuran	2.00	1.90		mg/Kg		95	68 - 120	2	18
Diethyl phthalate	2.00	1.86		mg/Kg		93	71 - 120	3	22
Dimethyl phthalate	2.00	1.89		mg/Kg		95	71 - 120	2	21
Di-n-butyl phthalate	2.00	1.85		mg/Kg		93	66 - 135	3	26
Di-n-octyl phthalate	2.00	1.95		mg/Kg		97	53 - 150	2	18
Fluoranthene	2.00	1.88		mg/Kg		94	69 - 133	4	21
Fluorene	2.00	1.89		mg/Kg		95	68 - 121	4	17
Hexachlorobenzene	2.00	1.82		mg/Kg		91	65 - 126	3	32
Hexachlorobutadiene	2.00	1.83		mg/Kg		92	56 - 146	2	19
Hexachlorocyclopentadiene	2.00	1.80		mg/Kg		90	36 - 124	1	21
Hexachloroethane	2.00	1.82		mg/Kg		91	68 - 120	1	34
Indeno[1,2,3-cd]pyrene	2.00	2.00		mg/Kg		100	43 - 133	2	30
Isophorone	2.00	1.96		mg/Kg		98	61 - 123	1	31
Naphthalene	2.00	1.85		mg/Kg		92	68 - 120	0	15
Nitrobenzene	2.00	1.92		mg/Kg		96	57 - 128	1	33
N-Nitrosodi-n-propylamine	2.00	1.88		mg/Kg		94	63 - 120	3	35
N-Nitrosodiphenylamine	2.00	1.89		mg/Kg		95	67 - 120	5	30
Pentachlorophenol	4.00	3.67		mg/Kg		92	18 - 133	2	40
Phenanthrene	2.00	1.80		mg/Kg		90	74 - 120	4	27
Phenol	2.00	1.93		mg/Kg		97	59 - 120	2	30
Pyrene	2.00	1.90		mg/Kg		95	68 - 126	4	24

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-432699/3-A

Matrix: Solid

Analysis Batch: 432870

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 432699

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	81		62 - 122
2-Fluorobiphenyl	83		64 - 120
2-Fluorophenol (Surr)	82		58 - 120
Nitrobenzene-d5 (Surr)	89		63 - 120
Phenol-d5 (Surr)	84		59 - 120
Terphenyl-d14 (Surr)	84		73 - 125

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-433353/1-A

Matrix: Solid

Analysis Batch: 434774

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 433353

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.020	0.0074	mg/Kg		08/01/23 10:10	08/15/23 20:35	1
PCB-1221	ND		0.020	0.012	mg/Kg		08/01/23 10:10	08/15/23 20:35	1
PCB-1232	ND		0.020	0.0049	mg/Kg		08/01/23 10:10	08/15/23 20:35	1
PCB-1242	ND		0.020	0.0080	mg/Kg		08/01/23 10:10	08/15/23 20:35	1
PCB-1248	ND		0.020	0.0070	mg/Kg		08/01/23 10:10	08/15/23 20:35	1
PCB-1254	ND		0.020	0.0090	mg/Kg		08/01/23 10:10	08/15/23 20:35	1
PCB-1260	ND		0.020	0.0074	mg/Kg		08/01/23 10:10	08/15/23 20:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	46		44 - 135	08/01/23 10:10	08/15/23 20:35	1
Tetrachloro-m-xylene	77		48 - 150	08/01/23 10:10	08/15/23 20:35	1

Lab Sample ID: LCS 580-433353/2-A

Matrix: Solid

Analysis Batch: 434774

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 433353

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.100	0.0816		mg/Kg		82	42 - 150
PCB-1260	0.100	0.0838		mg/Kg		84	43 - 145

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	48		44 - 135
Tetrachloro-m-xylene	80		48 - 150

Lab Sample ID: LCSD 580-433353/3-A

Matrix: Solid

Analysis Batch: 434774

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 433353

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	0.100	0.0809		mg/Kg		81	42 - 150	1	17
PCB-1260	0.100	0.0833		mg/Kg		83	43 - 145	1	13

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	46		44 - 135

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 580-433353/3-A

Matrix: Solid

Analysis Batch: 434774

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 433353

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	75		48 - 150

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-432709/1-A

Matrix: Solid

Analysis Batch: 432801

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 432709

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
#2 Diesel (C10-C24)	ND		50	12	mg/Kg		07/26/23 11:19	07/27/23 10:22	1
Motor Oil (>C24-C36)	ND		50	18	mg/Kg		07/26/23 11:19	07/27/23 10:22	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
o-Terphenyl	92		50 - 150				07/26/23 11:19	07/27/23 10:22	1

Lab Sample ID: LCS 580-432709/2-A

Matrix: Solid

Analysis Batch: 432801

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 432709

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
#2 Diesel (C10-C24)	500	464		mg/Kg		93	70 - 125
Motor Oil (>C24-C36)	500	482		mg/Kg		96	70 - 129
Surrogate	LCS	LCS	Limits				
	%Recovery	Qualifier					
o-Terphenyl	94		50 - 150				

Lab Sample ID: LCSD 580-432709/3-A

Matrix: Solid

Analysis Batch: 432801

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 432709

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD
	Added	Result	Qualifier				Limits	Limit
#2 Diesel (C10-C24)	500	478		mg/Kg		96	70 - 125	3 16
Motor Oil (>C24-C36)	500	495		mg/Kg		99	70 - 129	3 16
Surrogate	LCSD	LCSD	Limits					
	%Recovery	Qualifier						
o-Terphenyl	98		50 - 150					

Lab Sample ID: MB 580-433065/1-A

Matrix: Solid

Analysis Batch: 433444

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 433065

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
#2 Diesel (C10-C24)	ND		50	12	mg/Kg		07/28/23 12:00	08/02/23 06:16	1
Motor Oil (>C24-C36)	ND		50	18	mg/Kg		07/28/23 12:00	08/02/23 06:16	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
o-Terphenyl	88		50 - 150				07/28/23 12:00	08/02/23 06:16	1

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 580-433065/2-A

Matrix: Solid

Analysis Batch: 433444

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 433065

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
#2 Diesel (C10-C24)			500	433		mg/Kg		87	70 - 125		
Motor Oil (>C24-C36)			500	437		mg/Kg		87	70 - 129		
		LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits								
<i>o</i> -Terphenyl	78		50 - 150								

Lab Sample ID: LCSD 580-433065/3-A

Matrix: Solid

Analysis Batch: 433444

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 433065

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)			500	451		mg/Kg		90	70 - 125	4	16
Motor Oil (>C24-C36)			500	452		mg/Kg		90	70 - 129	3	16
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
o-Terphenyl	78		50 - 150								

Lab Sample ID: MB 580-433209/1-A

Matrix: Water

Analysis Batch: 433240

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 433209

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
#2 Diesel (C10-C24)	ND		0.11	0.065	mg/L		07/31/23 09:03	08/01/23 00:29	1
Motor Oil (>C24-C36)	ND		0.35	0.096	mg/L		07/31/23 09:03	08/01/23 00:29	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
o-Terphenyl	78		50 - 150	07/31/23 09:03	08/01/23 00:29	1			

Lab Sample ID: LCS 580-433209/2-A

Matrix: Water

Analysis Batch: 433240

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 433209

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
#2 Diesel (C10-C24)		4.00	2.99		mg/L		75	50 - 120
Motor Oil (>C24-C36)		4.00	3.27		mg/L		82	64 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
o-Terphenyl	81		50 - 150					

Lab Sample ID: LCSD 580-433209/3-A

Matrix: Water

Analysis Batch: 433240

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 433209

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	4.00	3.01		mg/L		75	50 - 120	0	26
Motor Oil (>C24-C36)	4.00	3.38		mg/L		85	64 - 120	3	24

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 580-433209/3-A

Matrix: Water

Analysis Batch: 433240

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 433209

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
o-Terphenyl	84		50 - 150

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Lab Sample ID: MB 580-433209/1-B

Matrix: Water

Analysis Batch: 433240

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 433209

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
#2 Diesel (C10-C24)	ND		0.11	0.065	mg/L		07/31/23 09:03	07/31/23 21:36	1
Motor Oil (>C24-C36)	ND		0.35	0.096	mg/L		07/31/23 09:03	07/31/23 21:36	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
o-Terphenyl	82		50 - 150				07/31/23 09:03	07/31/23 21:36	1

Lab Sample ID: LCS 580-433209/2-B

Matrix: Water

Analysis Batch: 433240

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 433209

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
#2 Diesel (C10-C24)	4.00	3.27		mg/L		82	50 - 120
Motor Oil (>C24-C36)	4.00	3.72		mg/L		93	64 - 120
Surrogate	LCS	LCS	Limits				
	%Recovery	Qualifier					
o-Terphenyl	85		50 - 150				

Lab Sample ID: LCSD 580-433209/3-B

Matrix: Water

Analysis Batch: 433240

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 433209

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD
	Added	Result	Qualifier				Limits	Limit
#2 Diesel (C10-C24)	4.00	3.38		mg/L		84	50 - 120	3 26
Motor Oil (>C24-C36)	4.00	3.77		mg/L		94	64 - 120	2 24
Surrogate	LCSD	LCSD	Limits					
	%Recovery	Qualifier						
o-Terphenyl	92		50 - 150					

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-694125/1-A

Matrix: Solid

Analysis Batch: 700877

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 694125

Analyte	MB	MB	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,3,7,8-TCDD	ND		1.0	0.093	pg/g		07/27/23 06:48	08/22/23 14:20	1
2,3,7,8-TCDF	0.109	J	1.0	0.036	pg/g		07/27/23 06:48	08/22/23 14:20	1
1,2,3,7,8-PeCDD	0.210	J q	5.0	0.085	pg/g		07/27/23 06:48	08/22/23 14:20	1
1,2,3,7,8-PeCDF	0.206	J	5.0	0.055	pg/g		07/27/23 06:48	08/22/23 14:20	1

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-694125/1-A

Matrix: Solid

Analysis Batch: 700877

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 694125

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,7,8-PeCDF	0.214	J	5.0	0.058	pg/g		07/27/23 06:48	08/22/23 14:20	1
1,2,3,4,7,8-HxCDD	0.420	J	5.0	0.052	pg/g		07/27/23 06:48	08/22/23 14:20	1
1,2,3,6,7,8-HxCDD	0.257	J	5.0	0.059	pg/g		07/27/23 06:48	08/22/23 14:20	1
1,2,3,7,8,9-HxCDD	0.338	J	5.0	0.051	pg/g		07/27/23 06:48	08/22/23 14:20	1
1,2,3,4,7,8-HxCDF	0.271	J	5.0	0.040	pg/g		07/27/23 06:48	08/22/23 14:20	1
1,2,3,6,7,8-HxCDF	0.214	J q	5.0	0.039	pg/g		07/27/23 06:48	08/22/23 14:20	1
1,2,3,7,8,9-HxCDF	0.267	J	5.0	0.038	pg/g		07/27/23 06:48	08/22/23 14:20	1
2,3,4,6,7,8-HxCDF	0.240	J	5.0	0.036	pg/g		07/27/23 06:48	08/22/23 14:20	1
1,2,3,4,6,7,8-HpCDD	0.426	J	5.0	0.031	pg/g		07/27/23 06:48	08/22/23 14:20	1
1,2,3,4,6,7,8-HpCDF	0.357	J	5.0	0.061	pg/g		07/27/23 06:48	08/22/23 14:20	1
1,2,3,4,7,8,9-HpCDF	0.272	J	5.0	0.052	pg/g		07/27/23 06:48	08/22/23 14:20	1
OCDD	1.23	J	10	0.062	pg/g		07/27/23 06:48	08/22/23 14:20	1
OCDF	0.651	J	10	0.066	pg/g		07/27/23 06:48	08/22/23 14:20	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	65		40 - 135	07/27/23 06:48	08/22/23 14:20	1
13C-2,3,7,8-TCDF	64		40 - 135	07/27/23 06:48	08/22/23 14:20	1
13C-1,2,3,7,8-PeCDD	67		40 - 135	07/27/23 06:48	08/22/23 14:20	1
13C-1,2,3,7,8-PeCDF	64		40 - 135	07/27/23 06:48	08/22/23 14:20	1
13C-2,3,4,7,8-PeCDF	69		40 - 135	07/27/23 06:48	08/22/23 14:20	1
13C-1,2,3,4,7,8-HxCDD	76		40 - 135	07/27/23 06:48	08/22/23 14:20	1
13C-1,2,3,6,7,8-HxCDD	65		40 - 135	07/27/23 06:48	08/22/23 14:20	1
13C-1,2,3,4,7,8-HxCDF	75		40 - 135	07/27/23 06:48	08/22/23 14:20	1
13C-2,3,4,6,7,8-HxCDF	71		40 - 135	07/27/23 06:48	08/22/23 14:20	1
13C-1,2,3,6,7,8-HxCDF	69		40 - 135	07/27/23 06:48	08/22/23 14:20	1
13C-1,2,3,7,8,9-HxCDF	61		40 - 135	07/27/23 06:48	08/22/23 14:20	1
13C-1,2,3,4,6,7,8-HpCDD	67		40 - 135	07/27/23 06:48	08/22/23 14:20	1
13C-1,2,3,4,6,7,8-HpCDF	65		40 - 135	07/27/23 06:48	08/22/23 14:20	1
13C-1,2,3,4,7,8,9-HpCDF	73		40 - 135	07/27/23 06:48	08/22/23 14:20	1
13C-OCDD	68		40 - 135	07/27/23 06:48	08/22/23 14:20	1
13C-OCDF	70		40 - 135	07/27/23 06:48	08/22/23 14:20	1

Lab Sample ID: LCS 320-694125/2-A

Matrix: Solid

Analysis Batch: 700194

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 694125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2,3,7,8-TCDD	20.0	18.2		pg/g		91	73 - 141
2,3,7,8-TCDF	20.0	18.2		pg/g		91	71 - 153
1,2,3,7,8-PeCDD	100	84.5		pg/g		84	77 - 126
1,2,3,7,8-PeCDF	100	88.3		pg/g		88	72 - 128
2,3,4,7,8-PeCDF	100	77.9		pg/g		78	72 - 127
1,2,3,4,7,8-HxCDD	100	78.5		pg/g		78	73 - 126
1,2,3,6,7,8-HxCDD	100	86.7		pg/g		87	76 - 142
1,2,3,7,8,9-HxCDD	100	83.8		pg/g		84	70 - 136
1,2,3,4,7,8-HxCDF	100	78.8		pg/g		79	73 - 127
1,2,3,6,7,8-HxCDF	100	86.4		pg/g		86	77 - 126
1,2,3,7,8,9-HxCDF	100	88.0		pg/g		88	77 - 125
2,3,4,6,7,8-HxCDF	100	87.5		pg/g		88	77 - 126

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-694125/2-A

Matrix: Solid

Analysis Batch: 700194

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 694125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3,4,6,7,8-HpCDD	100	85.9		pg/g		86	79 - 121
1,2,3,4,6,7,8-HpCDF	100	88.5		pg/g		89	78 - 138
1,2,3,4,7,8,9-HpCDF	100	75.9		pg/g		76	76 - 123
OCDD	200	170		pg/g		85	76 - 136
OCDF	200	168		pg/g		84	75 - 130

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C-2,3,7,8-TCDD	67		40 - 135
13C-2,3,7,8-TCDF	66		40 - 135
13C-1,2,3,7,8-PeCDD	74		40 - 135
13C-1,2,3,7,8-PeCDF	70		40 - 135
13C-2,3,4,7,8-PeCDF	75		40 - 135
13C-1,2,3,4,7,8-HxCDD	77		40 - 135
13C-1,2,3,6,7,8-HxCDD	67		40 - 135
13C-1,2,3,4,7,8-HxCDF	76		40 - 135
13C-2,3,4,6,7,8-HxCDF	70		40 - 135
13C-1,2,3,6,7,8-HxCDF	68		40 - 135
13C-1,2,3,7,8,9-HxCDF	63		40 - 135
13C-1,2,3,4,6,7,8-HpCDD	73		40 - 135
13C-1,2,3,4,6,7,8-HpCDF	67		40 - 135
13C-1,2,3,4,7,8,9-HpCDF	80		40 - 135
13C-OCDD	74		40 - 135
13C-OCDF	74		40 - 135

Lab Sample ID: LCSD 320-694125/3-A

Matrix: Solid

Analysis Batch: 700194

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 694125

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,3,7,8-TCDD	20.0	19.3		pg/g		97	73 - 141	6	20
2,3,7,8-TCDF	20.0	19.2		pg/g		96	71 - 153	6	20
1,2,3,7,8-PeCDD	100	88.8		pg/g		89	77 - 126	5	20
1,2,3,7,8-PeCDF	100	93.6		pg/g		94	72 - 128	6	20
2,3,4,7,8-PeCDF	100	82.0		pg/g		82	72 - 127	5	20
1,2,3,4,7,8-HxCDD	100	80.7		pg/g		81	73 - 126	3	20
1,2,3,6,7,8-HxCDD	100	96.9		pg/g		97	76 - 142	11	20
1,2,3,7,8,9-HxCDD	100	92.6		pg/g		93	70 - 136	10	20
1,2,3,4,7,8-HxCDF	100	84.3		pg/g		84	73 - 127	7	20
1,2,3,6,7,8-HxCDF	100	92.2		pg/g		92	77 - 126	7	20
1,2,3,7,8,9-HxCDF	100	92.2		pg/g		92	77 - 125	5	20
2,3,4,6,7,8-HxCDF	100	93.0		pg/g		93	77 - 126	6	20
1,2,3,4,6,7,8-HpCDD	100	92.7		pg/g		93	79 - 121	8	20
1,2,3,4,6,7,8-HpCDF	100	93.9		pg/g		94	78 - 138	6	20
1,2,3,4,7,8,9-HpCDF	100	80.8		pg/g		81	76 - 123	6	20
OCDD	200	185		pg/g		93	76 - 136	9	20
OCDF	200	177		pg/g		89	75 - 130	6	20

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C-2,3,7,8-TCDD	73		40 - 135

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCSD 320-694125/3-A
Matrix: Solid
Analysis Batch: 700194

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 694125

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C-2,3,7,8-TCDF	71		40 - 135
13C-1,2,3,7,8-PeCDD	81		40 - 135
13C-1,2,3,7,8-PeCDF	74		40 - 135
13C-2,3,4,7,8-PeCDF	80		40 - 135
13C-1,2,3,4,7,8-HxCDD	83		40 - 135
13C-1,2,3,6,7,8-HxCDD	71		40 - 135
13C-1,2,3,4,7,8-HxCDF	81		40 - 135
13C-2,3,4,6,7,8-HxCDF	76		40 - 135
13C-1,2,3,6,7,8-HxCDF	73		40 - 135
13C-1,2,3,7,8,9-HxCDF	69		40 - 135
13C-1,2,3,4,6,7,8-HpCDD	81		40 - 135
13C-1,2,3,4,6,7,8-HpCDF	74		40 - 135
13C-1,2,3,4,7,8,9-HpCDF	89		40 - 135
13C-OCDD	80		40 - 135
13C-OCDF	83		40 - 135

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 580-433255/29
Matrix: Water
Analysis Batch: 433255

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50	0.20	ng/L	-		07/28/23 14:57	1

Lab Sample ID: MB 580-433255/30
Matrix: Water
Analysis Batch: 433255

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50	0.20	ng/L	-		07/28/23 15:01	1

Lab Sample ID: MB 580-433255/31
Matrix: Water
Analysis Batch: 433255

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50	0.20	ng/L	-		07/28/23 15:05	1

Lab Sample ID: LCS 580-433255/39
Matrix: Water
Analysis Batch: 433255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.84		ng/L	-	97	77 - 123

QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: LCSD 580-433255/40
Matrix: Water
Analysis Batch: 433255

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.73		ng/L		95	77 - 123	2	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 580-433677/1-A
Matrix: Water
Analysis Batch: 433927

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 433677

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.020	0.0080	ug/L		08/04/23 11:57	08/05/23 03:37	1
Arsenic	0.0226	J	0.20	0.020	ug/L		08/04/23 11:57	08/05/23 03:37	1
Beryllium	ND		0.060	0.024	ug/L		08/04/23 11:57	08/05/23 03:37	1
Cadmium	ND		0.030	0.018	ug/L		08/04/23 11:57	08/05/23 03:37	1
Chromium	ND		0.50	0.21	ug/L		08/04/23 11:57	08/05/23 03:37	1
Copper	ND		0.50	0.40	ug/L		08/04/23 11:57	08/05/23 03:37	1
Nickel	ND		0.50	0.23	ug/L		08/04/23 11:57	08/05/23 03:37	1
Lead	ND		0.060	0.027	ug/L		08/04/23 11:57	08/05/23 03:37	1
Antimony	ND		0.10	0.035	ug/L		08/04/23 11:57	08/05/23 03:37	1
Selenium	0.203	J	0.30	0.050	ug/L		08/04/23 11:57	08/05/23 03:37	1
Thallium	ND		0.010	0.0020	ug/L		08/04/23 11:57	08/05/23 03:37	1
Zinc	ND		1.0	0.82	ug/L		08/04/23 11:57	08/05/23 03:37	1

Lab Sample ID: MB 580-433677/2-A
Matrix: Water
Analysis Batch: 433927

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 433677

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.020	0.0080	ug/L		08/04/23 11:57	08/05/23 03:41	1
Arsenic	ND		0.20	0.020	ug/L		08/04/23 11:57	08/05/23 03:41	1
Beryllium	ND		0.060	0.024	ug/L		08/04/23 11:57	08/05/23 03:41	1
Cadmium	ND		0.030	0.018	ug/L		08/04/23 11:57	08/05/23 03:41	1
Chromium	ND		0.50	0.21	ug/L		08/04/23 11:57	08/05/23 03:41	1
Copper	ND		0.50	0.40	ug/L		08/04/23 11:57	08/05/23 03:41	1
Nickel	ND		0.50	0.23	ug/L		08/04/23 11:57	08/05/23 03:41	1
Lead	ND		0.060	0.027	ug/L		08/04/23 11:57	08/05/23 03:41	1
Antimony	ND		0.10	0.035	ug/L		08/04/23 11:57	08/05/23 03:41	1
Selenium	ND		0.30	0.050	ug/L		08/04/23 11:57	08/05/23 03:41	1
Thallium	ND		0.010	0.0020	ug/L		08/04/23 11:57	08/05/23 03:41	1
Zinc	ND		1.0	0.82	ug/L		08/04/23 11:57	08/05/23 03:41	1

Lab Sample ID: LCS 580-433677/3-A
Matrix: Water
Analysis Batch: 433927

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 433677

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	10.0	10.4		ug/L		104	85 - 115
Arsenic	50.0	52.0		ug/L		104	85 - 115
Beryllium	10.0	9.69		ug/L		97	85 - 115
Cadmium	10.0	10.3		ug/L		103	85 - 115

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: 1638 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-433677/3-A
Matrix: Water
Analysis Batch: 433927

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 433677

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	50.0	50.9		ug/L		102	85 - 115
Copper	50.0	54.2		ug/L		108	85 - 115
Nickel	50.0	52.8		ug/L		106	85 - 115
Lead	50.0	50.8		ug/L		102	85 - 115
Antimony	10.0	10.5		ug/L		105	85 - 115
Selenium	50.0	51.2		ug/L		102	85 - 115
Thallium	10.0	10.1		ug/L		101	85 - 115
Zinc	50.0	52.5		ug/L		105	85 - 115

Lab Sample ID: LCSD 580-433677/4-A
Matrix: Water
Analysis Batch: 433927

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 433677

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Silver	10.0	10.2		ug/L		102	85 - 115	2	20
Arsenic	50.0	51.8		ug/L		104	85 - 115	0	20
Beryllium	10.0	9.06		ug/L		91	85 - 115	7	20
Cadmium	10.0	10.6		ug/L		106	85 - 115	2	20
Chromium	50.0	51.4		ug/L		103	85 - 115	1	20
Copper	50.0	53.5		ug/L		107	85 - 115	1	20
Nickel	50.0	53.2		ug/L		106	85 - 115	1	20
Lead	50.0	50.5		ug/L		101	85 - 115	1	20
Antimony	10.0	10.4		ug/L		104	85 - 115	1	20
Selenium	50.0	52.3		ug/L		105	85 - 115	2	20
Thallium	10.0	9.96		ug/L		100	85 - 115	1	20
Zinc	50.0	53.0		ug/L		106	85 - 115	1	20

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 580-433405/24-A
Matrix: Solid
Analysis Batch: 433726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 433405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.0	0.26	mg/Kg		08/01/23 13:49	08/03/23 20:21	1
Arsenic	ND		3.0	0.25	mg/Kg		08/01/23 13:49	08/03/23 20:21	1
Beryllium	ND		1.0	0.070	mg/Kg		08/01/23 13:49	08/03/23 20:21	1
Cadmium	ND		1.0	0.049	mg/Kg		08/01/23 13:49	08/03/23 20:21	1
Chromium	ND		1.3	0.22	mg/Kg		08/01/23 13:49	08/03/23 20:21	1
Copper	0.600	J	2.5	0.40	mg/Kg		08/01/23 13:49	08/03/23 20:21	1
Lead	ND		1.5	0.22	mg/Kg		08/01/23 13:49	08/03/23 20:21	1
Nickel	ND		1.0	0.10	mg/Kg		08/01/23 13:49	08/03/23 20:21	1
Silver	ND		2.5	0.56	mg/Kg		08/01/23 13:49	08/03/23 20:21	1
Zinc	ND		4.0	0.96	mg/Kg		08/01/23 13:49	08/03/23 20:21	1

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 580-433405/25-A
Matrix: Solid
Analysis Batch: 433726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 433405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	52.5		mg/Kg		105	80 - 120
Arsenic	50.0	54.1		mg/Kg		108	80 - 120
Beryllium	50.0	51.1		mg/Kg		102	80 - 120
Cadmium	50.0	55.1		mg/Kg		110	80 - 120
Chromium	50.0	56.1		mg/Kg		112	80 - 120
Copper	50.0	51.8		mg/Kg		104	80 - 120
Lead	50.0	53.8		mg/Kg		108	80 - 120
Nickel	50.0	54.6		mg/Kg		109	80 - 120
Selenium	50.0	54.5	^+	mg/Kg		109	80 - 120
Silver	50.0	50.6		mg/Kg		101	80 - 120
Zinc	50.0	56.4		mg/Kg		113	80 - 120

Lab Sample ID: LCSD 580-433405/26-A
Matrix: Solid
Analysis Batch: 433726

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 433405

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	50.0	55.0		mg/Kg		110	80 - 120	5	20
Arsenic	50.0	56.5		mg/Kg		113	80 - 120	4	20
Beryllium	50.0	53.6		mg/Kg		107	80 - 120	5	20
Cadmium	50.0	57.4		mg/Kg		115	80 - 120	4	20
Chromium	50.0	58.6		mg/Kg		117	80 - 120	4	20
Copper	50.0	54.3		mg/Kg		109	80 - 120	5	20
Lead	50.0	56.1		mg/Kg		112	80 - 120	4	20
Nickel	50.0	56.8		mg/Kg		114	80 - 120	4	20
Selenium	50.0	57.1	^+	mg/Kg		114	80 - 120	5	20
Silver	50.0	53.3		mg/Kg		107	80 - 120	5	20
Zinc	50.0	59.2		mg/Kg		118	80 - 120	5	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-433936/22-A
Matrix: Solid
Analysis Batch: 434131

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 433936

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.030	0.0090	mg/Kg		08/07/23 11:52	08/08/23 13:10	1

Lab Sample ID: LCS 580-433936/23-A
Matrix: Solid
Analysis Batch: 434131

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 433936

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.172		mg/Kg		103	80 - 120

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 580-433936/24-A

Matrix: Solid

Analysis Batch: 434131

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 433936

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.167	0.168		mg/Kg		101	80 - 120	2	20

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 580-432830/1

Matrix: Water

Analysis Batch: 432830

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		0.40	0.40	mg/L			07/27/23 05:35	1

Lab Sample ID: LCS 580-432830/2

Matrix: Water

Analysis Batch: 432830

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids	500	600		mg/L		120	80 - 120		

Lab Chronicle

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-SO-96-0-2-230724

Lab Sample ID: 580-129810-1

Date Collected: 07/24/23 10:35

Matrix: Solid

Date Received: 07/24/23 16:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	432894	VLF	EET SEA	07/27/23 11:03

Client Sample ID: P94-SO-96-0-2-230724

Lab Sample ID: 580-129810-1

Date Collected: 07/24/23 10:35

Matrix: Solid

Date Received: 07/24/23 16:59

Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			349839	UQTR	EET CAL 4	07/28/23 08:34
Total/NA	Analysis	8260C		1	350508	AJ4K	EET CAL 4	08/01/23 00:44
Total/NA	Prep	5035			433010	JBT	EET SEA	07/31/23 14:15
Total/NA	Analysis	NWTPH-Gx		1	433291	K1K	EET SEA	07/31/23 19:17
Total/NA	Prep	3546			432699	E1W	EET SEA	07/26/23 10:22
Total/NA	Analysis	8270E		10	433011	K1K	EET SEA	07/27/23 23:24
Total/NA	Prep	3546			433353	TOA	EET SEA	08/01/23 10:10
Total/NA	Analysis	8082A		1	434774	VLF	EET SEA	08/16/23 01:25
Total/NA	Prep	3546			433065	E1W	EET SEA	07/28/23 12:00
Total/NA	Analysis	NWTPH-Dx		5	433444	TGO	EET SEA	08/02/23 12:14
Total/NA	Prep	8290	RA		694125	FC	EET SAC	07/27/23 06:55
Total/NA	Analysis	8290A	RA	1	701054	DB	EET SAC	08/23/23 11:34
Total/NA	Prep	8290			694125	FC	EET SAC	07/27/23 06:55
Total/NA	Analysis	8290A		1	700877	CB	EET SAC	08/22/23 19:57
Total/NA	Prep	3050B			433405	DLV	EET SEA	08/01/23 13:49
Total/NA	Analysis	6010D		1	433726	JLS	EET SEA	08/03/23 20:57
Total/NA	Prep	7471A			433936	AUA	EET SEA	08/07/23 11:52
Total/NA	Analysis	7471A		1	434131	JLS	EET SEA	08/08/23 13:55

Client Sample ID: P94-SO-96-10-12-230724

Lab Sample ID: 580-129810-3

Date Collected: 07/24/23 11:00

Matrix: Solid

Date Received: 07/24/23 16:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	432894	VLF	EET SEA	07/27/23 11:03

Client Sample ID: P94-SO-96-10-12-230724

Lab Sample ID: 580-129810-3

Date Collected: 07/24/23 11:00

Matrix: Solid

Date Received: 07/24/23 16:59

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			349839	UQTR	EET CAL 4	07/28/23 08:34
Total/NA	Analysis	8260C		1	350508	AJ4K	EET CAL 4	08/01/23 01:05
Total/NA	Prep	5035			433010	JBT	EET SEA	07/31/23 14:15
Total/NA	Analysis	NWTPH-Gx		1	433291	K1K	EET SEA	07/31/23 20:05
Total/NA	Prep	3546			432699	E1W	EET SEA	07/26/23 10:22
Total/NA	Analysis	8270E		1	433011	K1K	EET SEA	07/27/23 23:49

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Lab Chronicle

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-SO-96-10-12-230724

Lab Sample ID: 580-129810-3

Date Collected: 07/24/23 11:00

Matrix: Solid

Date Received: 07/24/23 16:59

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			433353	TOA	EET SEA	08/01/23 10:10
Total/NA	Analysis	8082A		1	434774	VLF	EET SEA	08/16/23 01:41
Total/NA	Prep	3546			432709	TOA	EET SEA	07/26/23 11:20
Total/NA	Analysis	NWTPH-Dx		1	433779	KLW	EET SEA	08/05/23 06:09
Total/NA	Prep	8290			694125	FC	EET SAC	07/27/23 06:55
Total/NA	Analysis	8290A		1	700877	CB	EET SAC	08/22/23 20:45
Total/NA	Prep	3050B			433405	DLV	EET SEA	08/01/23 13:49
Total/NA	Analysis	6010D		1	433726	JLS	EET SEA	08/03/23 21:00
Total/NA	Prep	7471A			433936	AUA	EET SEA	08/07/23 11:52
Total/NA	Analysis	7471A		1	434131	JLS	EET SEA	08/08/23 13:57

Client Sample ID: TB-230724

Lab Sample ID: 580-129810-5

Date Collected: 07/24/23 07:00

Matrix: Water

Date Received: 07/24/23 16:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	432883	ITR	EET SEA	07/27/23 05:17
Total/NA	Analysis	NWTPH-Gx		1	433147	JBT	EET SEA	07/28/23 22:34

Client Sample ID: P94-SO-97-0-2-230724

Lab Sample ID: 580-129810-6

Date Collected: 07/24/23 13:15

Matrix: Solid

Date Received: 07/24/23 16:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	432824	CSS	EET SEA	07/26/23 23:36

Client Sample ID: P94-SO-97-0-2-230724

Lab Sample ID: 580-129810-6

Date Collected: 07/24/23 13:15

Matrix: Solid

Date Received: 07/24/23 16:59

Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			349839	UQTR	EET CAL 4	07/28/23 08:34
Total/NA	Analysis	8260C		1	350508	AJ4K	EET CAL 4	08/01/23 01:26
Total/NA	Prep	5035			433010	JBT	EET SEA	07/31/23 14:15
Total/NA	Analysis	NWTPH-Gx		1	433291	K1K	EET SEA	07/31/23 20:29
Total/NA	Prep	3546			432699	E1W	EET SEA	07/26/23 10:22
Total/NA	Analysis	8270E		1	433011	K1K	EET SEA	07/28/23 00:14
Total/NA	Prep	3546			433353	TOA	EET SEA	08/01/23 10:10
Total/NA	Analysis	8082A		1	434774	VLF	EET SEA	08/16/23 02:15
Total/NA	Prep	3546			433353	TOA	EET SEA	08/01/23 10:10
Total/NA	Analysis	8082A		1	435567	VLF	EET SEA	08/23/23 14:58
Total/NA	Prep	3546			432709	TOA	EET SEA	07/26/23 11:20
Total/NA	Analysis	NWTPH-Dx		1	433779	KLW	EET SEA	08/05/23 06:28
Total/NA	Prep	8290	RA		694125	FC	EET SAC	07/27/23 06:55
Total/NA	Analysis	8290A	RA	1	701721	CB	EET SAC	08/25/23 16:24

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Lab Chronicle

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-SO-97-0-2-230724

Lab Sample ID: 580-129810-6

Date Collected: 07/24/23 13:15

Matrix: Solid

Date Received: 07/24/23 16:59

Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	8290			694125	FC	EET SAC	07/27/23 06:55
Total/NA	Analysis	8290A		1	700194	JBC	EET SAC	08/18/23 22:19
Total/NA	Prep	3050B			433405	DLV	EET SEA	08/01/23 13:49
Total/NA	Analysis	6010D		1	433726	JLS	EET SEA	08/03/23 21:03
Total/NA	Prep	7471A			433936	AUA	EET SEA	08/07/23 11:52
Total/NA	Analysis	7471A		1	434131	JLS	EET SEA	08/08/23 14:04

Client Sample ID: P94-SO-97-10-12-230724

Lab Sample ID: 580-129810-8

Date Collected: 07/24/23 14:00

Matrix: Solid

Date Received: 07/24/23 16:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	432894	VLF	EET SEA	07/27/23 11:03

Client Sample ID: P94-SO-97-10-12-230724

Lab Sample ID: 580-129810-8

Date Collected: 07/24/23 14:00

Matrix: Solid

Date Received: 07/24/23 16:59

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			349839	UQTR	EET CAL 4	07/28/23 08:34
Total/NA	Analysis	8260C		1	350508	AJ4K	EET CAL 4	08/01/23 01:47
Total/NA	Prep	5035			433010	JBT	EET SEA	07/31/23 14:15
Total/NA	Analysis	NWTPH-Gx		1	433291	K1K	EET SEA	07/31/23 20:53
Total/NA	Prep	3546			432699	E1W	EET SEA	07/26/23 10:22
Total/NA	Analysis	8270E		1	433011	K1K	EET SEA	07/28/23 00:39
Total/NA	Prep	3546			433353	TOA	EET SEA	08/01/23 10:10
Total/NA	Analysis	8082A		1	434774	VLF	EET SEA	08/16/23 01:58
Total/NA	Prep	3546			432709	TOA	EET SEA	07/26/23 11:20
Total/NA	Analysis	NWTPH-Dx		1	433779	KLW	EET SEA	08/05/23 06:47
Total/NA	Prep	8290			694125	FC	EET SAC	07/27/23 06:55
Total/NA	Analysis	8290A		1	700194	JBC	EET SAC	08/18/23 23:07
Total/NA	Prep	3050B			433405	DLV	EET SEA	08/01/23 13:49
Total/NA	Analysis	6010D		1	433726	JLS	EET SEA	08/03/23 21:06
Total/NA	Prep	7471A			433936	AUA	EET SEA	08/07/23 11:52
Total/NA	Analysis	7471A		1	434131	JLS	EET SEA	08/08/23 14:06

Client Sample ID: P94-GW-96-230724

Lab Sample ID: 580-129810-12

Date Collected: 07/24/23 14:50

Matrix: Water

Date Received: 07/24/23 16:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	432883	ITR	EET SEA	07/27/23 06:29
Total/NA	Analysis	NWTPH-Gx		1	433147	JBT	EET SEA	07/29/23 01:51

Eurofins Seattle

Lab Chronicle

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Client Sample ID: P94-GW-96-230724

Lab Sample ID: 580-129810-12

Date Collected: 07/24/23 14:50

Matrix: Water

Date Received: 07/24/23 16:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			433209	SL	EET SEA	07/31/23 09:03
Total/NA	Cleanup	3630C			433210	SL	EET SEA	07/31/23 09:10
Total/NA	Analysis	NWTPH-Dx		1	433240	TGO	EET SEA	07/31/23 23:31
Total/NA	Prep	3510C			433209	SL	EET SEA	07/31/23 09:03
Total/NA	Analysis	NWTPH-Dx		1	433240	TGO	EET SEA	08/01/23 03:20
Dissolved	Analysis	1631E		1	433255	CL	EET SEA	07/28/23 20:56
Total/NA	Analysis	1631E		1	433255	CL	EET SEA	07/28/23 20:39
Dissolved	Prep	1638			433677	V1R	EET SEA	08/04/23 11:57
Dissolved	Analysis	1638		1	433927	V1R	EET SEA	08/05/23 07:22
Total Recoverable	Prep	1638			433677	V1R	EET SEA	08/04/23 11:57
Total Recoverable	Analysis	1638		1	433927	V1R	EET SEA	08/05/23 07:36
Total/NA	Analysis	SM 2540D		1	432830	CSS	EET SEA	07/27/23 05:35

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Laboratory: Eurofins Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-23 *

Laboratory: Eurofins Calscience

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C916-18	10-11-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8260C	5035	Solid	4-Isopropyltoluene

Laboratory: Eurofins Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C581	05-05-24

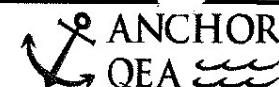
* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Sample Summary

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-129810-1	P94-SO-96-0-2-230724	Solid	07/24/23 10:35	07/24/23 16:59
580-129810-3	P94-SO-96-10-12-230724	Solid	07/24/23 11:00	07/24/23 16:59
580-129810-5	TB-230724	Water	07/24/23 07:00	07/24/23 16:59
580-129810-6	P94-SO-97-0-2-230724	Solid	07/24/23 13:15	07/24/23 16:59
580-129810-8	P94-SO-97-10-12-230724	Solid	07/24/23 14:00	07/24/23 16:59
580-129810-12	P94-GW-96-230724	Water	07/24/23 14:50	07/24/23 16:59



Date: 7/24/23

Laboratory: Eurofins Northwest

Project Name: Wheeler Osgood ESA

Project Number: 230092-03.01

Project Contact: Delaney Peterson

Phone Number: 360.715.2707

Shipment Method: Delivery

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	VOCs	Dioxin/Furnans	TS (soil)/TSS (groundwater)	Total Mercury	Dissolved Mercury	TPH-dx	TPH-Gx	SVOCs	PCB Aroclors	Total Metals	Dissolved Metals	Archive	Comments
1	P94-SO-96-0-2-230724	7/24/23 1035	SO	8	X	X	X	X		X	X	X	X	X	X		
2	P94-SO-96-4-5-230724	1040	SO	1											X		
3	P94-SO-96-10-12-230724	1100	SO	8	X	X	X	X		X	X	X	X	X	X		
4	P94-SO-96-15-16-230724	1125	SO	7											X		
5	TB-230724	0700	H2O	4	+					X							trip blanks
6	P94-SO-97-02-230724	1315	SO	8	X	X	X	X		X	X	X	X	X	X		
7	P94-SO-97-4-5-230724	1320	SO	1											X		
8	P94-SO-97-10-12-230724	1400	SO	8	X	X	X	X		X	X	X	X	X	X		
9	P94-SO-95-0-2-230724	1500	SO	1											X		
10	P94-SO-95-4-5-230724	1515	SO	1											X		
11	P94-SO-95-9-10-230724	1520	SO	1											X		
12	P94-GW-96-230724	1450	WG	15	X	X	X	X	X	X	X	X	X	X	X	X	
13	P94-GW-96-230724	7/24/23 1450	WG	15	X		X	X	X	X				X	X		
14	P94-SO-97-14-15-230724	1415	SO	1											X		10 P94-SO-97-14-15-230724

Email sample confirmation report to labdata@anchorqea.com

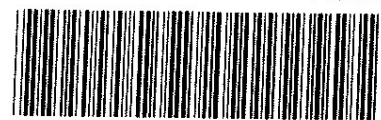
all dissolved metals + Hg
Samples field filtered

Additional notes/comments: Questions to dpeterson@anchorqea.com

Run water TPH-Dx w/ + w/o silica gel cleanup
Run water VOC for methods 8011 and 8260

Relinquished By:	Company: Anchor QEA LLC.	Received By:	Company: Eurofins
Kim Tran	07/24/23	[Signature]	7/24/23 1659
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time



580-129810 Chain of Custody

A3 5.8/5.8 3B/Burb/Wet/Client

A2 11/11 info. buried on I



Environment Testing

Ver: 06/08/2021

5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record



Loc: 580
En) 129810

[illegible]

Login Sample Receipt Checklist

Client: Anchor QEA LLC

Job Number: 580-129810-1

Login Number: 129810

List Source: Eurofins Seattle

List Number: 1

Creator: Groves, Elizabeth

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Anchor QEA LLC

Job Number: 580-129810-1

Login Number: 129810

List Number: 3

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 07/27/23 03:18 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	2182510
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Anchor QEA LLC

Job Number: 580-129810-1

Login Number: 129810

List Number: 2

Creator: Simmons, Jason C

List Source: Eurofins Sacramento

List Creation: 07/26/23 03:55 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	2182501
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.2c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing
America

Sacramento
Sample Receiving Notes



580-129810 Field Sheet

Tracking #

654577356420

Job. _____

SO / PD / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC.

Therm ID: LE04 Corr Factor (+/-) _____ °C

Ice 1 Wet 1 Gel _____ Other _____

Cooler Custody Seal 0182501

Cooler ID _____

Temp Observed: 52 °C Corrected: 52 °C

From Temp Blank ☐ Sample ☒

Opening/Processing The Shipment

Yes No NA

Cooler compromised/tampered with? ☐ ☒ ☐

Cooler Temperature is acceptable? ☒ ☐ ☐

Frozen samples show signs of thaw? ☐ ☐ ☒

Initials: JS Date: 7.26.23

Unpacking/Labeling The Samples

Yes No NA

Containers are not broken or leaking? ☒ ☐ ☐

Samples compromised/tampered with? ☐ ☒ ☐

COC is complete w/o discrepancies ☒ ☐ ☐

Sample custody seal? ☐ ☐ ☒

Sample containers have legible labels? ☒ ☐ ☐

Sample date/times are provided? ☒ ☐ ☐

Appropriate containers are used? ☒ ☐ ☐

Sample bottles are completely filled? ☒ ☐ ☐

Sample preservatives verified? ☐ ☐ ☒

Is the Field Sampler's name on COC? ☐ ☐ ☒

Samples w/o discrepancies? ☒ ☐ ☐

Zero headspace? ☐ ☐ ☒

Alkalinity has no headspace? ☐ ☐ ☒

Perchlorate has headspace? ☐ ☐ ☒

(Methods 314, 331 6850)

Multiphasic samples are not present? ☒ ☐ ☐

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: JS Date: 7.26.23

Notes _____

Trizma Lot #(s) _____

Ammonium

Acetate Lot #(s) _____

Login Completion

Yes No NA

Receipt Temperature on COC? ☒ ☐ ☐

NCM Filed? ☐ ☐ ☒

Log Release checked in TALS? ☐ ☐ ☒

Initials: JS Date: 7.26.23

Isotope Dilution Summary

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129810-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCDD (40-135)	TCDF (40-135)	PeCDD (40-135)	PeCDF (40-135)	PeCF (40-135)	HxCDD (40-135)	HxDD (40-135)	HxCDF (40-135)
580-129810-1	P94-SO-96-0-2-230724	72	72	81	74	82	79	69	84
580-129810-1 - RA	P94-SO-96-0-2-230724		78						
580-129810-3	P94-SO-96-10-12-230724	74	72	83	76	86	87	75	88
580-129810-6	P94-SO-97-0-2-230724	64	62	73	66	74	73	64	70
580-129810-6 - RA	P94-SO-97-0-2-230724		66						
580-129810-8	P94-SO-97-10-12-230724	71	71	82	74	84	83	70	79
LCS 320-694125/2-A	Lab Control Sample	67	66	74	70	75	77	67	76
LCSD 320-694125/3-A	Lab Control Sample Dup	73	71	81	74	80	83	71	81
MB 320-694125/1-A	Method Blank	65	64	67	64	69	76	65	75

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	13CHxCF (40-135)	HxDF (40-135)	HxCF (40-135)	HpCDD (40-135)	HpCDF (40-135)	HpCDF2 (40-135)	OCDD (40-135)	OCDF (40-135)
580-129810-1	P94-SO-96-0-2-230724	70	71	64	56	60	49	46	53
580-129810-1 - RA	P94-SO-96-0-2-230724								
580-129810-3	P94-SO-96-10-12-230724	78	75	71	72	73	80	79	84
580-129810-6	P94-SO-97-0-2-230724	64	59	58	70	66	75	78	79
580-129810-6 - RA	P94-SO-97-0-2-230724								
580-129810-8	P94-SO-97-10-12-230724	71	66	65	79	73	85	86	85
LCS 320-694125/2-A	Lab Control Sample	70	68	63	73	67	80	74	74
LCSD 320-694125/3-A	Lab Control Sample Dup	76	73	69	81	74	89	80	83
MB 320-694125/1-A	Method Blank	71	69	61	67	65	73	68	70

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF = 13C-1,2,3,7,8-PeCDF
PeCF = 13C-2,3,4,7,8-PeCDF
HxCDD = 13C-1,2,3,4,7,8-HxCDD
HxDD = 13C-1,2,3,6,7,8-HxCDD
HxCDF = 13C-1,2,3,4,7,8-HxCDF
13CHxCF = 13C-2,3,4,6,7,8-HxCDF
HxDF = 13C-1,2,3,6,7,8-HxCDF
HxCF = 13C-1,2,3,7,8,9-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF
OCDD = 13C-OCDD
OCDF = 13C-OCDF

ANALYTICAL REPORT

PREPARED FOR

Attn: Lab Data
Anchor QEA LLC
1201 3rd Ave
Suite 2600

Seattle, Washington 98101

Generated 10/4/2023 9:35:05 AM Revision 1

JOB DESCRIPTION

Port of Tacoma - Wheeler Osgood

JOB NUMBER

580-129836-1

Eurofins Seattle

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization



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(253)248-4970

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Revision 1

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Case Narrative

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Job ID: 580-129836-1

Laboratory: Eurofins Seattle

Narrative

Job Narrative 580-129836-1

Revision 1 10/04/2023

The report was revised to report sample P94-SO-92-0-1-230725 (580-129836-4) by Method 8270E.

Receipt

The samples were received on 7/25/2023 3:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.7° C and 5.2° C.

GC/MS VOA

Method 8260C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-349873.

Methods 8260C, 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-350508. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8260D: The CCV for analytical batch 580-432883 recovered outside control limits for the following analytes:

1,2-Dibromo-3-Chloropropane and Bromoform . 1,2-Dibromo-3-Chloropropane and Bromoform have been identified as poor performing analytes when analyzed using this method; therefore re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The method blank for analytical batch 580-432883 contained 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene and Hexachlorobutadiene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270E: Surrogate recovery for the following sample was outside the upper control limit: P94-SO-92-10-12-230725 (580-129836-5). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8270E: The following sample required a dilution due to the nature of the sample matrix: P94-SO-92-0-1-230725 (580-129836-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 580-433002 and analytical batch 580-433295 recovered outside control limits for the following analytes: 4-Nitroaniline. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E: The continuing calibration verification (CCV) associated with batch 580-433295 recovered above the upper control limit for 2,4-Dinitrophenol and 4-Nitroaniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: P94-SO-92-0-1-230725 (580-129836-4), P94-SO-92-10-12-230725 (580-129836-5) and (CCVIS 580-433295/3).

Method 8270E: The continuing calibration verification (CCV) associated with batch 580-435897 recovered above the upper control limit for 4-Nitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: P94-SO-92-0-1-230725 (580-129836-4) and (CCVIS 580-435897/3).

Method 8270E: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 580-433002 and 580-433002 and analytical batch 580-433295 recovered outside control limits for the following analytes: 4-Nitroaniline. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Case Narrative

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Job ID: 580-129836-1 (Continued)

Laboratory: Eurofins Seattle (Continued)

GC Semi VOA

Method NWTPH-Dx: Continuing calibration verification (CCV) standard associated with batch 580-433444 recovered outside %Drift acceptance criteria for o-Terphenyl surrogate. The %Recovery is within acceptance criteria for the surrogate in the CCV and associated samples surrogates are not biased into passing criteria; therefore, the data are qualified and reported. (CCV 580-433444/33), (CCV 580-433444/42)

Method 8082A: Surrogate recovery for the following samples were outside control limits: P94-SO-92-0-1-230725 (580-129836-4), P94-SO-92-10-12-230725 (580-129836-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The following continuing calibration verification (CCV) standard associated with batch 580-434774 recovered outside acceptance criteria for %D for DCB Decachlorobiphenyl and Tetrachloro-m-xylene. Since the %Rec is within the acceptance criteria for the surrogate in the CCV and associated samples, the data have been reported. (CCV 580-434774/27) and (CCVIS 580-434774/1)

Method 8082A: The continuing calibration verification (CCV) associated with batch 580-434774 recovered above the upper control limit for PCB-1016, PCB-1221, PCB-1232 and PCB-1260. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: P94-SO-92-0-1-230725 (580-129836-4), P94-SO-92-10-12-230725 (580-129836-5), (CCV 580-434774/2), (CCV 580-434774/27) and (CCV 580-434774/5).

Method 8082A: The continuing calibration verification (CCV) associated with 580-434774 recovered high and outside the control limits for PCB-1221 on one column. Results are confirmed on both columns and reported from the passing column. The associated samples are: P94-SO-92-0-1-230725 (580-129836-4), P94-SO-92-10-12-230725 (580-129836-5) and (CCV 580-434774/31).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Dioxin

Method 8290A: The Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit: P94-SO-92-0-1-230725 (580-129836-4). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010D: The continuing calibration verification (CCV) associated with batch 580-433928 recovered above the upper control limit for Se. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: P94-SO-92-0-1-230725 (580-129836-4), P94-SO-92-10-12-230725 (580-129836-5)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

Method 5035: The following samples were provided to the laboratory with a significantly different initial weight than that required by the reference method: P94-SO-92-0-1-230725 (580-129836-4) and P94-SO-92-10-12-230725 (580-129836-5). Deviations in the weight by more than 20% may affect reporting limits and potentially method performance. The method specifies 10g. The amount provided was above this range.

Method 5035: Constant weight was not achieved after 3 drying cycles for the following sample: P94-SO-92-0-1-230725 (580-129836-4).

Case Narrative

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Job ID: 580-129836-1 (Continued)

Laboratory: Eurofins Seattle (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Dioxin Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Definitions/Glossary

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Dioxin

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
SQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive

Eurofins Seattle

Definitions/Glossary

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Client Sample ID: P94-GW-97-230725

Lab Sample ID: 580-129836-3

Date Collected: 07/25/23 09:30

Matrix: Water

Date Received: 07/25/23 15:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.038	ug/L			07/27/23 06:53	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			07/27/23 06:53	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			07/27/23 06:53	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			07/27/23 06:53	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			07/27/23 06:53	1
1,1-Dichloroethene	ND		0.20	0.035	ug/L			07/27/23 06:53	1
1,1-Dichloropropene	ND		0.20	0.084	ug/L			07/27/23 06:53	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			07/27/23 06:53	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			07/27/23 06:53	1
1,2,4-Trichlorobenzene	ND		0.50	0.17	ug/L			07/27/23 06:53	1
1,2,4-Trimethylbenzene	ND		0.50	0.20	ug/L			07/27/23 06:53	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.17	ug/L			07/27/23 06:53	1
1,2-Dichlorobenzene	ND		0.30	0.038	ug/L			07/27/23 06:53	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			07/27/23 06:53	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			07/27/23 06:53	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			07/27/23 06:53	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			07/27/23 06:53	1
1,3-Dichloropropane	ND		0.20	0.025	ug/L			07/27/23 06:53	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			07/27/23 06:53	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			07/27/23 06:53	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			07/27/23 06:53	1
4-Chlorotoluene	ND		0.30	0.12	ug/L			07/27/23 06:53	1
4-Isopropyltoluene	ND		0.50	0.15	ug/L			07/27/23 06:53	1
Benzene	ND		0.20	0.030	ug/L			07/27/23 06:53	1
Bromobenzene	ND		0.20	0.038	ug/L			07/27/23 06:53	1
Bromoform	ND		0.50	0.16	ug/L			07/27/23 06:53	1
Bromomethane	ND		0.50	0.13	ug/L			07/27/23 06:53	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			07/27/23 06:53	1
Chlorobenzene	ND		0.20	0.060	ug/L			07/27/23 06:53	1
Chlorobromomethane	ND		0.20	0.050	ug/L			07/27/23 06:53	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			07/27/23 06:53	1
Chloroethane	ND		0.50	0.096	ug/L			07/27/23 06:53	1
Chloroform	ND		0.20	0.030	ug/L			07/27/23 06:53	1
Chloromethane	ND		0.50	0.14	ug/L			07/27/23 06:53	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			07/27/23 06:53	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			07/27/23 06:53	1
Dibromomethane	ND		0.20	0.062	ug/L			07/27/23 06:53	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			07/27/23 06:53	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			07/27/23 06:53	1
Ethylbenzene	ND		0.20	0.030	ug/L			07/27/23 06:53	1
Ethylene Dibromide	ND		0.10	0.025	ug/L			07/27/23 06:53	1
Hexachlorobutadiene	ND		0.50	0.067	ug/L			07/27/23 06:53	1
Isopropylbenzene	ND		1.0	0.19	ug/L			07/27/23 06:53	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			07/27/23 06:53	1
Methylene Chloride	ND		5.0	1.2	ug/L			07/27/23 06:53	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			07/27/23 06:53	1
Naphthalene	ND		1.0	0.22	ug/L			07/27/23 06:53	1
n-Butylbenzene	ND		1.0	0.23	ug/L			07/27/23 06:53	1
N-Propylbenzene	ND		0.30	0.091	ug/L			07/27/23 06:53	1

Eurofins Seattle

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Client Sample ID: P94-GW-97-230725

Lab Sample ID: 580-129836-3

Date Collected: 07/25/23 09:30

Matrix: Water

Date Received: 07/25/23 15:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.50	0.15	ug/L			07/27/23 06:53	1
sec-Butylbenzene	ND		1.0	0.17	ug/L			07/27/23 06:53	1
Styrene	ND		1.0	0.19	ug/L			07/27/23 06:53	1
tert-Butylbenzene	ND		0.50	0.26	ug/L			07/27/23 06:53	1
Tetrachloroethene	ND		0.50	0.084	ug/L			07/27/23 06:53	1
Toluene	ND		0.20	0.050	ug/L			07/27/23 06:53	1
trans-1,2-Dichloroethene	ND		0.20	0.033	ug/L			07/27/23 06:53	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			07/27/23 06:53	1
Trichloroethene	ND		0.20	0.066	ug/L			07/27/23 06:53	1
Trichlorofluoromethane	ND		0.50	0.12	ug/L			07/27/23 06:53	1
Vinyl chloride	ND		0.10	0.040	ug/L			07/27/23 06:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		80 - 120		07/27/23 06:53	1
4-Bromofluorobenzene (Surr)	92		80 - 120		07/27/23 06:53	1
Dibromofluoromethane (Surr)	107		80 - 120		07/27/23 06:53	1
Toluene-d8 (Surr)	97		80 - 120		07/27/23 06:53	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.050	0.014	mg/L			07/31/23 07:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		77 - 123					07/31/23 07:24	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.010	0.0020	ug/L		08/07/23 16:45	08/11/23 14:49	1
1,2-Dibromo-3-Chloropropane	0.0024	J	0.010	0.0020	ug/L		08/07/23 16:45	08/11/23 14:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	100		60 - 140				08/07/23 16:45	08/11/23 14:49	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.089	J	0.11	0.066	mg/L		07/31/23 09:03	08/01/23 03:58	1
Motor Oil (>C24-C36)	0.21	J	0.35	0.097	mg/L		07/31/23 09:03	08/01/23 03:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	75		50 - 150				07/31/23 09:03	08/01/23 03:58	1

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.11	0.066	mg/L		07/31/23 09:03	08/01/23 00:10	1
Motor Oil (>C24-C36)	ND		0.35	0.097	mg/L		07/31/23 09:03	08/01/23 00:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	83		50 - 150				07/31/23 09:03	08/01/23 00:10	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.72		0.50	0.20	ng/L			07/28/23 20:43	1

Eurofins Seattle

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Client Sample ID: P94-GW-97-230725

Lab Sample ID: 580-129836-3

Date Collected: 07/25/23 09:30

Matrix: Water

Date Received: 07/25/23 15:05

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50	0.20	ng/L			07/28/23 21:00	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.020	0.0080	ug/L		08/04/23 11:57	08/05/23 07:29	1
Arsenic	0.28	B	0.20	0.020	ug/L		08/04/23 11:57	08/05/23 07:29	1
Beryllium	ND		0.060	0.024	ug/L		08/04/23 11:57	08/05/23 07:29	1
Cadmium	ND		0.030	0.018	ug/L		08/04/23 11:57	08/05/23 07:29	1
Chromium	0.24	J	0.50	0.21	ug/L		08/04/23 11:57	08/05/23 07:29	1
Copper	ND		0.50	0.40	ug/L		08/04/23 11:57	08/05/23 07:29	1
Nickel	ND		0.50	0.23	ug/L		08/04/23 11:57	08/05/23 07:29	1
Lead	0.21		0.060	0.027	ug/L		08/04/23 11:57	08/05/23 07:29	1
Antimony	0.070	J	0.10	0.035	ug/L		08/04/23 11:57	08/05/23 07:29	1
Selenium	ND		0.30	0.050	ug/L		08/04/23 11:57	08/05/23 07:29	1
Thallium	ND		0.010	0.0020	ug/L		08/04/23 11:57	08/05/23 07:29	1
Zinc	ND		1.0	0.82	ug/L		08/04/23 11:57	08/05/23 07:29	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.020	0.0080	ug/L		08/04/23 11:57	08/05/23 05:01	1
Arsenic	0.25	B	0.20	0.020	ug/L		08/04/23 11:57	08/05/23 05:01	1
Beryllium	ND		0.060	0.024	ug/L		08/04/23 11:57	08/05/23 05:01	1
Cadmium	ND		0.030	0.018	ug/L		08/04/23 11:57	08/05/23 05:01	1
Chromium	0.21	J	0.50	0.21	ug/L		08/04/23 11:57	08/05/23 05:01	1
Copper	ND		0.50	0.40	ug/L		08/04/23 11:57	08/05/23 05:01	1
Nickel	ND		0.50	0.23	ug/L		08/04/23 11:57	08/05/23 05:01	1
Lead	0.028	J	0.060	0.027	ug/L		08/04/23 11:57	08/05/23 05:01	1
Antimony	0.087	J	0.10	0.035	ug/L		08/04/23 11:57	08/05/23 05:01	1
Selenium	0.080	J B	0.30	0.050	ug/L		08/04/23 11:57	08/05/23 05:01	1
Thallium	0.0076	J	0.010	0.0020	ug/L		08/04/23 11:57	08/05/23 05:01	1
Zinc	2.2		1.0	0.82	ug/L		08/04/23 11:57	08/05/23 05:01	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	21		2.0	2.0	mg/L			07/27/23 05:37	1

Eurofins Seattle

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Client Sample ID: P94-SO-92-0-1-230725

Lab Sample ID: 580-129836-4

Date Collected: 07/25/23 10:15

Matrix: Solid

Date Received: 07/25/23 15:05

Percent Solids: 97.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00048	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
1,1,1-Trichloroethane	ND		0.00048	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
1,1,2,2-Tetrachloroethane	ND		0.00097	0.00026	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
1,1,2-Trichloroethane	ND		0.00048	0.00023	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
1,1-Dichloroethane	ND		0.00048	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
1,1-Dichloroethene	ND		0.00048	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
1,1-Dichloropropene	ND		0.00097	0.00019	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
1,2,3-Trichlorobenzene	ND		0.00097	0.00018	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
1,2,3-Trichloropropane	ND		0.00097	0.00020	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
1,2,4-Trichlorobenzene	ND		0.00097	0.00020	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
1,2,4-Trimethylbenzene	ND		0.00097	0.00029	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
1,2-Dibromo-3-Chloropropane	ND		0.0048	0.0016	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
1,2-Dibromoethane	ND		0.00048	0.00010	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
1,2-Dichlorobenzene	ND		0.00048	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
1,2-Dichloroethane	ND		0.00048	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
1,2-Dichloropropane	ND		0.00048	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
1,3,5-Trimethylbenzene	ND		0.00097	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
1,3-Dichlorobenzene	ND		0.00048	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
1,3-Dichloropropane	ND		0.00048	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
1,4-Dichlorobenzene	ND		0.00048	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
2,2-Dichloropropane	ND		0.0024	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
2-Chlorotoluene	ND		0.00048	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
4-Chlorotoluene	ND		0.00048	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
4-Isopropyltoluene	ND		0.00048	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
Benzene	ND		0.00048	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
Bromobenzene	ND		0.00048	0.00010	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
Bromochloromethane	ND		0.00097	0.00022	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
Bromodichloromethane	ND		0.00048	0.00016	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
Bromoform	ND		0.0024	0.00064	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
Bromomethane	ND		0.0097	0.0032	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
Carbon tetrachloride	ND		0.00048	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
Chlorobenzene	ND		0.00048	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
Chloroethane	ND		0.00097	0.00036	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
Chloroform	ND		0.00048	0.00029	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
Chloromethane	ND		0.0097	0.00075	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
cis-1,2-Dichloroethene	ND		0.00048	0.00016	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
cis-1,3-Dichloropropene	ND		0.00048	0.00017	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
Dibromochloromethane	ND		0.00097	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
Dibromomethane	ND		0.00048	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
Dichlorodifluoromethane	ND		0.00097	0.00022	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
Ethylbenzene	ND		0.00048	0.00010	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
Hexachlorobutadiene	ND		0.0024	0.00081	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
Isopropylbenzene	ND		0.00048	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
Methyl tert-butyl ether	ND		0.00097	0.000091	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
Methylene Chloride	ND		0.0048	0.0015	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
m-Xylene & p-Xylene	ND		0.00097	0.00023	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
Naphthalene	ND		0.0048	0.0019	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
n-Butylbenzene	ND		0.00048	0.00010	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
N-Propylbenzene	ND		0.00097	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Client Sample ID: P94-SO-92-0-1-230725

Lab Sample ID: 580-129836-4

Date Collected: 07/25/23 10:15

Matrix: Solid

Date Received: 07/25/23 15:05

Percent Solids: 97.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.00048	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
sec-Butylbenzene	ND		0.00048	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
Styrene	ND		0.00048	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
t-Butylbenzene	ND		0.00048	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
Tetrachloroethene	ND		0.00048	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
Toluene	ND		0.00048	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
trans-1,2-Dichloroethene	ND		0.00048	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
trans-1,3-Dichloropropene	ND		0.00097	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
Trichloroethene	ND		0.00097	0.00019	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
Trichlorofluoromethane	ND		0.0048	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1
Vinyl chloride	ND		0.00048	0.00018	mg/Kg	☆	07/28/23 08:34	08/01/23 02:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	130		32 - 179	07/28/23 08:34	08/01/23 02:08	1
4-Bromofluorobenzene (Surr)	97		80 - 120	07/28/23 08:34	08/01/23 02:08	1
Toluene-d8 (Surr)	100		80 - 120	07/28/23 08:34	08/01/23 02:08	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	2.0	J	2.1	0.29	mg/Kg	☆	08/01/23 09:59	08/01/23 20:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		66 - 125	08/01/23 09:59	08/01/23 20:56	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.48	0.058	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
1,2-Dichlorobenzene	ND		0.48	0.048	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
1,3-Dichlorobenzene	ND		0.48	0.046	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
1,4-Dichlorobenzene	ND		0.48	0.080	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
1-Methylnaphthalene	0.13	J	0.29	0.048	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
2,4,5-Trichlorophenol	ND		1.9	0.078	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
2,4,6-Trichlorophenol	ND		1.4	0.12	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
2,4-Dichlorophenol	ND		1.9	0.27	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
2,4-Dimethylphenol	ND		1.9	0.58	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
2,4-Dinitrophenol	ND		19	5.6	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
2,4-Dinitrotoluene	ND		1.9	0.41	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
2,6-Dinitrotoluene	ND		1.4	0.14	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
2-Chloronaphthalene	ND		0.24	0.048	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
2-Chlorophenol	ND		1.9	0.038	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
2-Methylnaphthalene	0.17	J	0.48	0.085	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
2-Methylphenol	ND		1.4	0.094	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
2-Nitroaniline	ND		0.96	0.14	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
2-Nitrophenol	ND		1.9	0.060	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
3 & 4 Methylphenol	ND		1.9	0.14	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
3,3'-Dichlorobenzidine	ND		3.8	0.81	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
3-Nitroaniline	ND		2.9	0.96	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
4,6-Dinitro-2-methylphenol	ND		9.6	0.96	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
4-Bromophenyl phenyl ether	ND		1.9	0.087	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
4-Chloro-3-methylphenol	ND		1.4	0.32	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Client Sample ID: P94-SO-92-0-1-230725

Lab Sample ID: 580-129836-4

Date Collected: 07/25/23 10:15

Matrix: Solid

Date Received: 07/25/23 15:05

Percent Solids: 97.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		14	1.3	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
4-Chlorophenyl phenyl ether	ND		1.9	0.061	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
4-Nitroaniline	ND	*+	1.4	0.48	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
4-Nitrophenol	ND		19	1.7	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Acenaphthene	ND		0.38	0.044	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Acenaphthylene	ND		0.24	0.048	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Anthracene	ND		0.58	0.15	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Benzo[a]anthracene	ND		0.38	0.11	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Benzo[a]pyrene	ND		0.58	0.12	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Benzo[b]fluoranthene	ND		0.38	0.096	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Benzo[g,h,i]perylene	ND		0.58	0.17	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Benzo[k]fluoranthene	ND		0.58	0.13	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Benzoic acid	ND		38	12	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Benzyl alcohol	ND		9.6	0.48	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Bis(2-chloroethoxy)methane	ND		1.9	0.17	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Bis(2-chloroethyl)ether	ND		0.96	0.074	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Bis(2-ethylhexyl) phthalate	1.4	J	5.8	0.68	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
bis(chloroisopropyl) ether	ND		1.9	0.059	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Butyl benzyl phthalate	ND		1.9	0.49	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Carbazole	ND		1.4	0.070	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Chrysene	ND		0.58	0.12	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Dibenz(a,h)anthracene	ND		0.48	0.12	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Dibenzofuran	ND		1.4	0.057	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Diethyl phthalate	ND		3.8	0.21	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Dimethyl phthalate	ND		1.4	0.048	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Di-n-butyl phthalate	ND		4.8	0.26	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Di-n-octyl phthalate	ND		1.4	0.12	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Fluoranthene	0.31	J	0.38	0.12	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Fluorene	ND		0.24	0.048	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Hexachlorobenzene	ND		0.48	0.14	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Hexachlorobutadiene	ND		0.48	0.14	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Hexachlorocyclopentadiene	ND		0.96	0.074	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Hexachloroethane	ND		1.4	0.041	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Indeno[1,2,3-cd]pyrene	ND		0.38	0.12	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Isophorone	ND		1.4	0.081	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Naphthalene	0.15	J	0.24	0.048	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Nitrobenzene	ND		1.9	0.19	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
N-Nitrosodi-n-propylamine	ND		1.9	0.21	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
N-Nitrosodiphenylamine	ND		0.58	0.077	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Pentachlorophenol	ND		3.8	0.61	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Phenanthrene	ND		0.58	0.056	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Phenol	ND		1.4	0.22	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10
Pyrene	0.31	J	0.58	0.12	mg/Kg	☆	07/27/23 16:38	08/27/23 02:55	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	560	S1+	62 - 122	07/27/23 16:38	08/27/23 02:55	10
2-Fluorobiphenyl	743	S1+	64 - 120	07/27/23 16:38	08/27/23 02:55	10
2-Fluorophenol (Surr)	740	S1+	58 - 120	07/27/23 16:38	08/27/23 02:55	10
Nitrobenzene-d5 (Surr)	985	S1+	63 - 120	07/27/23 16:38	08/27/23 02:55	10
Phenol-d5 (Surr)	790	S1+	59 - 120	07/27/23 16:38	08/27/23 02:55	10

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Client Sample ID: P94-SO-92-0-1-230725

Lab Sample ID: 580-129836-4

Date Collected: 07/25/23 10:15

Matrix: Solid

Date Received: 07/25/23 15:05

Percent Solids: 97.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	965	S1+	73 - 125	07/27/23 16:38	08/27/23 02:55	10

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.020	0.0073	mg/Kg	☆	08/01/23 10:10	08/16/23 02:32	1
PCB-1221	ND		0.020	0.012	mg/Kg	☆	08/01/23 10:10	08/16/23 02:32	1
PCB-1232	ND		0.020	0.0048	mg/Kg	☆	08/01/23 10:10	08/16/23 02:32	1
PCB-1242	ND		0.020	0.0079	mg/Kg	☆	08/01/23 10:10	08/16/23 02:32	1
PCB-1248	ND		0.020	0.0069	mg/Kg	☆	08/01/23 10:10	08/16/23 02:32	1
PCB-1254	ND		0.020	0.0089	mg/Kg	☆	08/01/23 10:10	08/16/23 02:32	1
PCB-1260	ND		0.020	0.0073	mg/Kg	☆	08/01/23 10:10	08/16/23 02:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	37	S1-	44 - 135	08/01/23 10:10	08/16/23 02:32	1
Tetrachloro-m-xylene	76		48 - 150	08/01/23 10:10	08/16/23 02:32	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	430	J	500	120	mg/Kg	☆	07/28/23 12:00	08/02/23 12:52	10
Motor Oil (>C24-C36)	5400		500	180	mg/Kg	☆	07/28/23 12:00	08/02/23 12:52	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	104		50 - 150	07/28/23 12:00	08/02/23 12:52	10

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.99	0.048	pg/g	☆	07/28/23 06:32	07/29/23 20:34	1
2,3,7,8-TCDF	0.71	J	0.99	0.036	pg/g	☆	07/28/23 06:32	07/29/23 20:34	1
1,2,3,7,8-PeCDD	0.30	J	5.0	0.071	pg/g	☆	07/28/23 06:32	07/29/23 20:34	1
1,2,3,7,8-PeCDF	0.19	J q	5.0	0.042	pg/g	☆	07/28/23 06:32	07/29/23 20:34	1
2,3,4,7,8-PeCDF	0.26	J	5.0	0.045	pg/g	☆	07/28/23 06:32	07/29/23 20:34	1
1,2,3,4,7,8-HxCDD	0.45	J B	5.0	0.11	pg/g	☆	07/28/23 06:32	07/29/23 20:34	1
1,2,3,6,7,8-HxCDD	0.97	J B	5.0	0.12	pg/g	☆	07/28/23 06:32	07/29/23 20:34	1
1,2,3,7,8,9-HxCDD	0.70	J q B	5.0	0.11	pg/g	☆	07/28/23 06:32	07/29/23 20:34	1
1,2,3,4,7,8-HxCDF	0.38	J B	5.0	0.060	pg/g	☆	07/28/23 06:32	07/29/23 20:34	1
1,2,3,6,7,8-HxCDF	0.23	J q B	5.0	0.065	pg/g	☆	07/28/23 06:32	07/29/23 20:34	1
1,2,3,7,8,9-HxCDF	ND		5.0	0.068	pg/g	☆	07/28/23 06:32	07/29/23 20:34	1
2,3,4,6,7,8-HxCDF	0.26	J B	5.0	0.074	pg/g	☆	07/28/23 06:32	07/29/23 20:34	1
1,2,3,4,6,7,8-HpCDD	11	B	5.0	0.44	pg/g	☆	07/28/23 06:32	07/29/23 20:34	1
1,2,3,4,6,7,8-HpCDF	2.5	J B	5.0	0.13	pg/g	☆	07/28/23 06:32	07/29/23 20:34	1
1,2,3,4,7,8,9-HpCDF	ND		5.0	0.16	pg/g	☆	07/28/23 06:32	07/29/23 20:34	1
OCDD	80	B	9.9	0.58	pg/g	☆	07/28/23 06:32	07/29/23 20:34	1
OCDF	4.4	J B	9.9	0.14	pg/g	☆	07/28/23 06:32	07/29/23 20:34	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	61		40 - 135	07/28/23 06:32	07/29/23 20:34	1
13C-2,3,7,8-TCDF	62		40 - 135	07/28/23 06:32	07/29/23 20:34	1
13C-1,2,3,7,8-PeCDD	58		40 - 135	07/28/23 06:32	07/29/23 20:34	1
13C-1,2,3,7,8-PeCDF	61		40 - 135	07/28/23 06:32	07/29/23 20:34	1
13C-2,3,4,7,8-PeCDF	62		40 - 135	07/28/23 06:32	07/29/23 20:34	1
13C-1,2,3,4,7,8-HxCDD	62		40 - 135	07/28/23 06:32	07/29/23 20:34	1

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Client Sample ID: P94-SO-92-0-1-230725

Lab Sample ID: 580-129836-4

Date Collected: 07/25/23 10:15

Matrix: Solid

Date Received: 07/25/23 15:05

Percent Solids: 97.4

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDD	52		40 - 135	07/28/23 06:32	07/29/23 20:34	1
13C-1,2,3,4,7,8-HxCDF	72		40 - 135	07/28/23 06:32	07/29/23 20:34	1
13C-2,3,4,6,7,8-HxCDF	55		40 - 135	07/28/23 06:32	07/29/23 20:34	1
13C-1,2,3,6,7,8-HxCDF	62		40 - 135	07/28/23 06:32	07/29/23 20:34	1
13C-1,2,3,7,8,9-HxCDF	59		40 - 135	07/28/23 06:32	07/29/23 20:34	1
13C-1,2,3,4,6,7,8-HpCDD	37	*5-	40 - 135	07/28/23 06:32	07/29/23 20:34	1
13C-1,2,3,4,6,7,8-HpCDF	40		40 - 135	07/28/23 06:32	07/29/23 20:34	1
13C-1,2,3,4,7,8,9-HpCDF	31	*5-	40 - 135	07/28/23 06:32	07/29/23 20:34	1
13C-OCDD	22	*5-	40 - 135	07/28/23 06:32	07/29/23 20:34	1
13C-OCDF	25	*5-	40 - 135	07/28/23 06:32	07/29/23 20:34	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4	J	2.3	0.20	mg/Kg	✱	08/02/23 13:03	08/04/23 20:09	1
Arsenic	3.8		2.3	0.19	mg/Kg	✱	08/02/23 13:03	08/07/23 18:42	1
Beryllium	0.061	J	0.76	0.053	mg/Kg	✱	08/02/23 13:03	08/04/23 20:09	1
Cadmium	0.41	J	0.76	0.037	mg/Kg	✱	08/02/23 13:03	08/04/23 20:09	1
Chromium	28		0.99	0.17	mg/Kg	✱	08/02/23 13:03	08/07/23 18:42	1
Copper	23		1.9	0.31	mg/Kg	✱	08/02/23 13:03	08/04/23 20:09	1
Lead	11		1.1	0.17	mg/Kg	✱	08/02/23 13:03	08/04/23 20:09	1
Nickel	26		0.76	0.079	mg/Kg	✱	08/02/23 13:03	08/04/23 20:09	1
Selenium	ND	^+	3.8	0.30	mg/Kg	✱	08/02/23 13:03	08/04/23 20:09	1
Silver	ND		1.9	0.43	mg/Kg	✱	08/02/23 13:03	08/04/23 20:09	1
Zinc	49		3.1	0.73	mg/Kg	✱	08/02/23 13:03	08/07/23 18:42	1

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.0058	mg/Kg	✱	08/07/23 13:45	08/08/23 16:11	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (SM22 2540G)	97.4		0.1	0.1	%			07/31/23 09:28	1
Percent Moisture (SM22 2540G)	2.6		0.1	0.1	%			07/31/23 09:28	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Client Sample ID: P94-SO-92-10-12-230725

Lab Sample ID: 580-129836-5

Date Collected: 07/25/23 10:40

Matrix: Solid

Date Received: 07/25/23 15:05

Percent Solids: 78.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00055	0.00016	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
1,1,1-Trichloroethane	ND		0.00055	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
1,1,2,2-Tetrachloroethane	ND		0.0011	0.00030	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
1,1,2-Trichloroethane	ND		0.00055	0.00025	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
1,1-Dichloroethane	ND		0.00055	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
1,1-Dichloroethene	ND		0.00055	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
1,1-Dichloropropene	ND		0.0011	0.00021	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
1,2,3-Trichlorobenzene	ND		0.0011	0.00021	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
1,2,3-Trichloropropane	ND		0.0011	0.00023	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
1,2,4-Trichlorobenzene	ND		0.0011	0.00022	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
1,2,4-Trimethylbenzene	ND		0.0011	0.00033	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
1,2-Dibromo-3-Chloropropane	ND		0.0055	0.0018	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
1,2-Dibromoethane	ND		0.00055	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
1,2-Dichlorobenzene	ND		0.00055	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
1,2-Dichloroethane	ND		0.00055	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
1,2-Dichloropropane	ND		0.00055	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
1,3,5-Trimethylbenzene	ND		0.0011	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
1,3-Dichlorobenzene	ND		0.00055	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
1,3-Dichloropropane	ND		0.00055	0.00016	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
1,4-Dichlorobenzene	ND		0.00055	0.00017	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
2,2-Dichloropropane	ND		0.0027	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
2-Chlorotoluene	ND		0.00055	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
4-Chlorotoluene	ND		0.00055	0.00013	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
4-Isopropyltoluene	ND		0.00055	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
Benzene	ND		0.00055	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
Bromobenzene	ND		0.00055	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
Bromochloromethane	ND		0.0011	0.00024	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
Bromodichloromethane	ND		0.00055	0.00018	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
Bromoform	ND		0.0027	0.00072	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
Bromomethane	ND		0.011	0.0036	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
Carbon tetrachloride	ND		0.00055	0.00016	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
Chlorobenzene	ND		0.00055	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
Chloroethane	ND		0.0011	0.00041	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
Chloroform	ND		0.00055	0.00032	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
Chloromethane	ND		0.011	0.00084	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
cis-1,2-Dichloroethene	ND		0.00055	0.00018	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
cis-1,3-Dichloropropene	ND		0.00055	0.00019	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
Dibromochloromethane	ND		0.0011	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
Dibromomethane	ND		0.00055	0.00017	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
Dichlorodifluoromethane	ND		0.0011	0.00025	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
Ethylbenzene	ND		0.00055	0.00011	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
Hexachlorobutadiene	ND		0.0027	0.00091	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
Isopropylbenzene	ND		0.00055	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
Methyl tert-butyl ether	ND		0.0011	0.00010	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
Methylene Chloride	ND		0.0055	0.0017	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
m-Xylene & p-Xylene	ND		0.0011	0.00026	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
Naphthalene	ND		0.0055	0.0022	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
n-Butylbenzene	ND		0.00055	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
N-Propylbenzene	ND		0.0011	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Client Sample ID: P94-SO-92-10-12-230725

Lab Sample ID: 580-129836-5

Date Collected: 07/25/23 10:40

Matrix: Solid

Date Received: 07/25/23 15:05

Percent Solids: 78.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.00055	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
sec-Butylbenzene	ND		0.00055	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
Styrene	ND		0.00055	0.00017	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
t-Butylbenzene	ND		0.00055	0.00014	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
Tetrachloroethene	ND		0.00055	0.00012	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
Toluene	ND		0.00055	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
trans-1,2-Dichloroethene	ND		0.00055	0.00016	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
trans-1,3-Dichloropropene	ND		0.0011	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
Trichloroethene	ND		0.0011	0.00021	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
Trichlorofluoromethane	ND		0.0055	0.00015	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1
Vinyl chloride	ND		0.00055	0.00021	mg/Kg	☆	07/28/23 08:34	08/01/23 02:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		32 - 179	07/28/23 08:34	08/01/23 02:29	1
4-Bromofluorobenzene (Surr)	102		80 - 120	07/28/23 08:34	08/01/23 02:29	1
Toluene-d8 (Surr)	101		80 - 120	07/28/23 08:34	08/01/23 02:29	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		3.2	0.45	mg/Kg	☆	07/31/23 14:15	07/31/23 21:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		66 - 125	07/31/23 14:15	07/31/23 21:42	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.061	0.0073	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
1,2-Dichlorobenzene	ND		0.061	0.0061	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
1,3-Dichlorobenzene	ND		0.061	0.0058	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
1,4-Dichlorobenzene	ND		0.061	0.010	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
1-Methylnaphthalene	0.017	J	0.036	0.0061	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
2,4,5-Trichlorophenol	ND		0.24	0.0098	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
2,4,6-Trichlorophenol	ND		0.18	0.016	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
2,4-Dichlorophenol	ND		0.24	0.034	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
2,4-Dimethylphenol	ND		0.24	0.073	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
2,4-Dinitrophenol	ND		2.4	0.71	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
2,4-Dinitrotoluene	ND		0.24	0.052	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
2,6-Dinitrotoluene	ND		0.18	0.018	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
2-Chloronaphthalene	ND		0.030	0.0061	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
2-Chlorophenol	ND		0.24	0.0049	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
2-Methylnaphthalene	0.027	J	0.061	0.011	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
2-Methylphenol	ND		0.18	0.012	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
2-Nitroaniline	ND		0.12	0.018	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
2-Nitrophenol	ND		0.24	0.0075	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
3 & 4 Methylphenol	ND		0.24	0.018	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
3,3'-Dichlorobenzidine	ND		0.49	0.10	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
3-Nitroaniline	ND		0.36	0.12	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
4,6-Dinitro-2-methylphenol	ND		1.2	0.12	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
4-Bromophenyl phenyl ether	ND		0.24	0.011	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
4-Chloro-3-methylphenol	ND		0.18	0.040	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Client Sample ID: P94-SO-92-10-12-230725

Lab Sample ID: 580-129836-5

Date Collected: 07/25/23 10:40

Matrix: Solid

Date Received: 07/25/23 15:05

Percent Solids: 78.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		1.8	0.16	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
4-Chlorophenyl phenyl ether	ND		0.24	0.0076	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
4-Nitroaniline	ND	*+	0.18	0.061	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
4-Nitrophenol	ND		2.4	0.21	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Acenaphthene	0.0087	J	0.049	0.0056	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Acenaphthylene	ND		0.030	0.0061	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Anthracene	ND		0.073	0.019	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Benzo[a]anthracene	ND		0.049	0.013	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Benzo[a]pyrene	0.044	J	0.073	0.016	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Benzo[b]fluoranthene	ND		0.049	0.012	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Benzo[g,h,i]perylene	ND		0.073	0.022	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Benzo[k]fluoranthene	ND		0.073	0.017	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Benzoic acid	ND		4.9	1.5	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Benzyl alcohol	ND		1.2	0.061	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Bis(2-chloroethoxy)methane	ND		0.24	0.022	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Bis(2-chloroethyl)ether	ND		0.12	0.0093	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Bis(2-ethylhexyl) phthalate	ND		0.73	0.086	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
bis(chloroisopropyl) ether	ND		0.24	0.0074	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Butyl benzyl phthalate	ND		0.24	0.062	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Carbazole	ND		0.18	0.0089	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Chrysene	ND		0.073	0.016	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Dibenz(a,h)anthracene	ND		0.061	0.015	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Dibenzofuran	0.0089	J	0.18	0.0072	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Diethyl phthalate	ND		0.49	0.027	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Dimethyl phthalate	ND		0.18	0.0061	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Di-n-butyl phthalate	ND		0.61	0.033	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Di-n-octyl phthalate	ND		0.18	0.015	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Fluoranthene	0.040	J	0.049	0.015	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Fluorene	0.010	J	0.030	0.0061	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Hexachlorobenzene	ND		0.061	0.018	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Hexachlorobutadiene	ND		0.061	0.018	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Hexachlorocyclopentadiene	ND		0.12	0.0093	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Hexachloroethane	ND		0.18	0.0052	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Indeno[1,2,3-cd]pyrene	ND		0.049	0.015	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Isophorone	ND		0.18	0.010	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Naphthalene	0.013	J	0.030	0.0061	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Nitrobenzene	ND		0.24	0.024	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
N-Nitrosodi-n-propylamine	ND		0.24	0.027	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
N-Nitrosodiphenylamine	ND		0.073	0.0097	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Pentachlorophenol	ND		0.49	0.076	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Phenanthrene	0.042	J	0.073	0.0070	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Phenol	ND		0.18	0.028	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1
Pyrene	0.035	J	0.073	0.016	mg/Kg	☆	07/27/23 16:40	07/31/23 22:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		62 - 122	07/27/23 16:40	07/31/23 22:09	1
2-Fluorobiphenyl	108		64 - 120	07/27/23 16:40	07/31/23 22:09	1
2-Fluorophenol (Surr)	111		58 - 120	07/27/23 16:40	07/31/23 22:09	1
Nitrobenzene-d5 (Surr)	96		63 - 120	07/27/23 16:40	07/31/23 22:09	1
Phenol-d5 (Surr)	105		59 - 120	07/27/23 16:40	07/31/23 22:09	1

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Client Sample ID: P94-SO-92-10-12-230725

Lab Sample ID: 580-129836-5

Date Collected: 07/25/23 10:40

Matrix: Solid

Date Received: 07/25/23 15:05

Percent Solids: 78.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	138	S1+	73 - 125	07/27/23 16:40	07/31/23 22:09	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.025	0.0093	mg/Kg	☆	08/01/23 10:10	08/16/23 02:49	1
PCB-1221	ND		0.025	0.015	mg/Kg	☆	08/01/23 10:10	08/16/23 02:49	1
PCB-1232	ND		0.025	0.0062	mg/Kg	☆	08/01/23 10:10	08/16/23 02:49	1
PCB-1242	ND		0.025	0.010	mg/Kg	☆	08/01/23 10:10	08/16/23 02:49	1
PCB-1248	ND		0.025	0.0088	mg/Kg	☆	08/01/23 10:10	08/16/23 02:49	1
PCB-1254	ND		0.025	0.011	mg/Kg	☆	08/01/23 10:10	08/16/23 02:49	1
PCB-1260	ND		0.025	0.0093	mg/Kg	☆	08/01/23 10:10	08/16/23 02:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	42	S1-	44 - 135	08/01/23 10:10	08/16/23 02:49	1
Tetrachloro-m-xylene	77		48 - 150	08/01/23 10:10	08/16/23 02:49	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	17	J	59	15	mg/Kg	☆	07/28/23 12:00	08/02/23 13:11	1
Motor Oil (>C24-C36)	47	J	59	21	mg/Kg	☆	07/28/23 12:00	08/02/23 13:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	95		50 - 150	07/28/23 12:00	08/02/23 13:11	1

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		1.3	0.042	pg/g	☆	07/28/23 06:32	07/29/23 21:22	1
2,3,7,8-TCDF	0.18	J q	1.3	0.027	pg/g	☆	07/28/23 06:32	07/29/23 21:22	1
1,2,3,7,8-PeCDD	ND		6.3	0.068	pg/g	☆	07/28/23 06:32	07/29/23 21:22	1
1,2,3,7,8-PeCDF	ND		6.3	0.035	pg/g	☆	07/28/23 06:32	07/29/23 21:22	1
2,3,4,7,8-PeCDF	ND		6.3	0.034	pg/g	☆	07/28/23 06:32	07/29/23 21:22	1
1,2,3,4,7,8-HxCDD	0.28	J B	6.3	0.073	pg/g	☆	07/28/23 06:32	07/29/23 21:22	1
1,2,3,6,7,8-HxCDD	ND		6.3	0.085	pg/g	☆	07/28/23 06:32	07/29/23 21:22	1
1,2,3,7,8,9-HxCDD	ND		6.3	0.074	pg/g	☆	07/28/23 06:32	07/29/23 21:22	1
1,2,3,4,7,8-HxCDF	ND		6.3	0.046	pg/g	☆	07/28/23 06:32	07/29/23 21:22	1
1,2,3,6,7,8-HxCDF	ND		6.3	0.052	pg/g	☆	07/28/23 06:32	07/29/23 21:22	1
1,2,3,7,8,9-HxCDF	ND		6.3	0.049	pg/g	☆	07/28/23 06:32	07/29/23 21:22	1
2,3,4,6,7,8-HxCDF	ND		6.3	0.047	pg/g	☆	07/28/23 06:32	07/29/23 21:22	1
1,2,3,4,6,7,8-HpCDD	0.58	J B	6.3	0.073	pg/g	☆	07/28/23 06:32	07/29/23 21:22	1
1,2,3,4,6,7,8-HpCDF	0.24	J B	6.3	0.060	pg/g	☆	07/28/23 06:32	07/29/23 21:22	1
1,2,3,4,7,8,9-HpCDF	ND		6.3	0.055	pg/g	☆	07/28/23 06:32	07/29/23 21:22	1
OCDD	4.0	J B	13	0.33	pg/g	☆	07/28/23 06:32	07/29/23 21:22	1
OCDF	ND		13	0.30	pg/g	☆	07/28/23 06:32	07/29/23 21:22	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	69		40 - 135	07/28/23 06:32	07/29/23 21:22	1
13C-2,3,7,8-TCDF	70		40 - 135	07/28/23 06:32	07/29/23 21:22	1
13C-1,2,3,7,8-PeCDD	72		40 - 135	07/28/23 06:32	07/29/23 21:22	1
13C-1,2,3,7,8-PeCDF	73		40 - 135	07/28/23 06:32	07/29/23 21:22	1
13C-2,3,4,7,8-PeCDF	81		40 - 135	07/28/23 06:32	07/29/23 21:22	1
13C-1,2,3,4,7,8-HxCDD	82		40 - 135	07/28/23 06:32	07/29/23 21:22	1

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Client Sample ID: P94-SO-92-10-12-230725

Lab Sample ID: 580-129836-5

Date Collected: 07/25/23 10:40

Matrix: Solid

Date Received: 07/25/23 15:05

Percent Solids: 78.0

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDD	65		40 - 135	07/28/23 06:32	07/29/23 21:22	1
13C-1,2,3,4,7,8-HxCDF	89		40 - 135	07/28/23 06:32	07/29/23 21:22	1
13C-2,3,4,6,7,8-HxCDF	75		40 - 135	07/28/23 06:32	07/29/23 21:22	1
13C-1,2,3,6,7,8-HxCDF	73		40 - 135	07/28/23 06:32	07/29/23 21:22	1
13C-1,2,3,7,8,9-HxCDF	76		40 - 135	07/28/23 06:32	07/29/23 21:22	1
13C-1,2,3,4,6,7,8-HpCDD	66		40 - 135	07/28/23 06:32	07/29/23 21:22	1
13C-1,2,3,4,6,7,8-HpCDF	65		40 - 135	07/28/23 06:32	07/29/23 21:22	1
13C-1,2,3,4,7,8,9-HpCDF	79		40 - 135	07/28/23 06:32	07/29/23 21:22	1
13C-OCDD	60		40 - 135	07/28/23 06:32	07/29/23 21:22	1
13C-OCDF	66		40 - 135	07/28/23 06:32	07/29/23 21:22	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.84	J	2.5	0.22	mg/Kg	✱	08/02/23 13:03	08/04/23 20:12	1
Arsenic	2.4	J	2.5	0.20	mg/Kg	✱	08/02/23 13:03	08/07/23 18:45	1
Beryllium	ND		0.83	0.058	mg/Kg	✱	08/02/23 13:03	08/04/23 20:12	1
Cadmium	0.18	J	0.83	0.040	mg/Kg	✱	08/02/23 13:03	08/04/23 20:12	1
Chromium	19		1.1	0.18	mg/Kg	✱	08/02/23 13:03	08/07/23 18:45	1
Copper	20		2.1	0.33	mg/Kg	✱	08/02/23 13:03	08/04/23 20:12	1
Lead	3.2		1.2	0.18	mg/Kg	✱	08/02/23 13:03	08/04/23 20:12	1
Nickel	12		0.83	0.085	mg/Kg	✱	08/02/23 13:03	08/04/23 20:12	1
Selenium	ND	^+	4.1	0.33	mg/Kg	✱	08/02/23 13:03	08/04/23 20:12	1
Silver	ND		2.1	0.46	mg/Kg	✱	08/02/23 13:03	08/04/23 20:12	1
Zinc	35		3.3	0.79	mg/Kg	✱	08/02/23 13:03	08/07/23 18:45	1

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.038	0.011	mg/Kg	✱	08/07/23 13:45	08/08/23 16:13	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids (SM22 2540G)	78.0		0.1	0.1	%			07/27/23 11:03	1
Percent Moisture (SM22 2540G)	22.0		0.1	0.1	%			07/27/23 11:03	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Client Sample ID: TB-230725

Lab Sample ID: 580-129836-7

Date Collected: 07/25/23 07:00

Matrix: Water

Date Received: 07/25/23 15:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.038	ug/L			07/27/23 05:41	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			07/27/23 05:41	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			07/27/23 05:41	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			07/27/23 05:41	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			07/27/23 05:41	1
1,1-Dichloroethene	ND		0.20	0.035	ug/L			07/27/23 05:41	1
1,1-Dichloropropene	ND		0.20	0.084	ug/L			07/27/23 05:41	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			07/27/23 05:41	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			07/27/23 05:41	1
1,2,4-Trichlorobenzene	ND		0.50	0.17	ug/L			07/27/23 05:41	1
1,2,4-Trimethylbenzene	ND		0.50	0.20	ug/L			07/27/23 05:41	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.17	ug/L			07/27/23 05:41	1
1,2-Dichlorobenzene	ND		0.30	0.038	ug/L			07/27/23 05:41	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			07/27/23 05:41	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			07/27/23 05:41	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			07/27/23 05:41	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			07/27/23 05:41	1
1,3-Dichloropropane	ND		0.20	0.025	ug/L			07/27/23 05:41	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			07/27/23 05:41	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			07/27/23 05:41	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			07/27/23 05:41	1
4-Chlorotoluene	ND		0.30	0.12	ug/L			07/27/23 05:41	1
4-Isopropyltoluene	ND		0.50	0.15	ug/L			07/27/23 05:41	1
Benzene	ND		0.20	0.030	ug/L			07/27/23 05:41	1
Bromobenzene	ND		0.20	0.038	ug/L			07/27/23 05:41	1
Bromoform	ND		0.50	0.16	ug/L			07/27/23 05:41	1
Bromomethane	ND		0.50	0.13	ug/L			07/27/23 05:41	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			07/27/23 05:41	1
Chlorobenzene	ND		0.20	0.060	ug/L			07/27/23 05:41	1
Chlorobromomethane	ND		0.20	0.050	ug/L			07/27/23 05:41	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			07/27/23 05:41	1
Chloroethane	ND		0.50	0.096	ug/L			07/27/23 05:41	1
Chloroform	ND		0.20	0.030	ug/L			07/27/23 05:41	1
Chloromethane	ND		0.50	0.14	ug/L			07/27/23 05:41	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			07/27/23 05:41	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			07/27/23 05:41	1
Dibromomethane	ND		0.20	0.062	ug/L			07/27/23 05:41	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			07/27/23 05:41	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			07/27/23 05:41	1
Ethylbenzene	ND		0.20	0.030	ug/L			07/27/23 05:41	1
Ethylene Dibromide	ND		0.10	0.025	ug/L			07/27/23 05:41	1
Hexachlorobutadiene	ND		0.50	0.067	ug/L			07/27/23 05:41	1
Isopropylbenzene	ND		1.0	0.19	ug/L			07/27/23 05:41	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			07/27/23 05:41	1
Methylene Chloride	ND		5.0	1.2	ug/L			07/27/23 05:41	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			07/27/23 05:41	1
Naphthalene	ND		1.0	0.22	ug/L			07/27/23 05:41	1
n-Butylbenzene	ND		1.0	0.23	ug/L			07/27/23 05:41	1
N-Propylbenzene	ND		0.30	0.091	ug/L			07/27/23 05:41	1

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Client Sample ID: TB-230725

Lab Sample ID: 580-129836-7

Date Collected: 07/25/23 07:00

Matrix: Water

Date Received: 07/25/23 15:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.50	0.15	ug/L			07/27/23 05:41	1
sec-Butylbenzene	ND		1.0	0.17	ug/L			07/27/23 05:41	1
Styrene	ND		1.0	0.19	ug/L			07/27/23 05:41	1
tert-Butylbenzene	ND		0.50	0.26	ug/L			07/27/23 05:41	1
Tetrachloroethene	ND		0.50	0.084	ug/L			07/27/23 05:41	1
Toluene	0.15	J	0.20	0.050	ug/L			07/27/23 05:41	1
trans-1,2-Dichloroethene	ND		0.20	0.033	ug/L			07/27/23 05:41	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			07/27/23 05:41	1
Trichloroethene	ND		0.20	0.066	ug/L			07/27/23 05:41	1
Trichlorofluoromethane	ND		0.50	0.12	ug/L			07/27/23 05:41	1
Vinyl chloride	ND		0.10	0.040	ug/L			07/27/23 05:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		80 - 120		07/27/23 05:41	1
4-Bromofluorobenzene (Surr)	90		80 - 120		07/27/23 05:41	1
Dibromofluoromethane (Surr)	107		80 - 120		07/27/23 05:41	1
Toluene-d8 (Surr)	99		80 - 120		07/27/23 05:41	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.050	0.014	mg/L			07/31/23 04:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		77 - 123		07/31/23 04:33	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.010	0.0021	ug/L		08/07/23 16:45	08/11/23 15:05	1
1,2-Dibromo-3-Chloropropane	ND		0.010	0.0021	ug/L		08/07/23 16:45	08/11/23 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	120		60 - 140	08/07/23 16:45	08/11/23 15:05	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Client Sample ID: P94-GW-92-230725

Lab Sample ID: 580-129836-11

Date Collected: 07/25/23 13:30

Matrix: Water

Date Received: 07/25/23 15:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.038	ug/L			07/27/23 07:17	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			07/27/23 07:17	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			07/27/23 07:17	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			07/27/23 07:17	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			07/27/23 07:17	1
1,1-Dichloroethene	ND		0.20	0.035	ug/L			07/27/23 07:17	1
1,1-Dichloropropene	ND		0.20	0.084	ug/L			07/27/23 07:17	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			07/27/23 07:17	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			07/27/23 07:17	1
1,2,4-Trichlorobenzene	ND		0.50	0.17	ug/L			07/27/23 07:17	1
1,2,4-Trimethylbenzene	ND		0.50	0.20	ug/L			07/27/23 07:17	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.17	ug/L			07/27/23 07:17	1
1,2-Dichlorobenzene	ND		0.30	0.038	ug/L			07/27/23 07:17	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			07/27/23 07:17	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			07/27/23 07:17	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			07/27/23 07:17	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			07/27/23 07:17	1
1,3-Dichloropropane	ND		0.20	0.025	ug/L			07/27/23 07:17	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			07/27/23 07:17	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			07/27/23 07:17	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			07/27/23 07:17	1
4-Chlorotoluene	ND		0.30	0.12	ug/L			07/27/23 07:17	1
4-Isopropyltoluene	ND		0.50	0.15	ug/L			07/27/23 07:17	1
Benzene	ND		0.20	0.030	ug/L			07/27/23 07:17	1
Bromobenzene	ND		0.20	0.038	ug/L			07/27/23 07:17	1
Bromoform	ND		0.50	0.16	ug/L			07/27/23 07:17	1
Bromomethane	ND		0.50	0.13	ug/L			07/27/23 07:17	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			07/27/23 07:17	1
Chlorobenzene	ND		0.20	0.060	ug/L			07/27/23 07:17	1
Chlorobromomethane	ND		0.20	0.050	ug/L			07/27/23 07:17	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			07/27/23 07:17	1
Chloroethane	ND		0.50	0.096	ug/L			07/27/23 07:17	1
Chloroform	ND		0.20	0.030	ug/L			07/27/23 07:17	1
Chloromethane	ND		0.50	0.14	ug/L			07/27/23 07:17	1
cis-1,2-Dichloroethene	0.063	J	0.20	0.055	ug/L			07/27/23 07:17	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			07/27/23 07:17	1
Dibromomethane	ND		0.20	0.062	ug/L			07/27/23 07:17	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			07/27/23 07:17	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			07/27/23 07:17	1
Ethylbenzene	ND		0.20	0.030	ug/L			07/27/23 07:17	1
Ethylene Dibromide	ND		0.10	0.025	ug/L			07/27/23 07:17	1
Hexachlorobutadiene	ND		0.50	0.067	ug/L			07/27/23 07:17	1
Isopropylbenzene	ND		1.0	0.19	ug/L			07/27/23 07:17	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			07/27/23 07:17	1
Methylene Chloride	ND		5.0	1.2	ug/L			07/27/23 07:17	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			07/27/23 07:17	1
Naphthalene	ND		1.0	0.22	ug/L			07/27/23 07:17	1
n-Butylbenzene	ND		1.0	0.23	ug/L			07/27/23 07:17	1
N-Propylbenzene	ND		0.30	0.091	ug/L			07/27/23 07:17	1

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Client Sample ID: P94-GW-92-230725

Lab Sample ID: 580-129836-11

Date Collected: 07/25/23 13:30

Matrix: Water

Date Received: 07/25/23 15:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.50	0.15	ug/L			07/27/23 07:17	1
sec-Butylbenzene	ND		1.0	0.17	ug/L			07/27/23 07:17	1
Styrene	ND		1.0	0.19	ug/L			07/27/23 07:17	1
tert-Butylbenzene	ND		0.50	0.26	ug/L			07/27/23 07:17	1
Tetrachloroethene	ND		0.50	0.084	ug/L			07/27/23 07:17	1
Toluene	0.061	J	0.20	0.050	ug/L			07/27/23 07:17	1
trans-1,2-Dichloroethene	ND		0.20	0.033	ug/L			07/27/23 07:17	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			07/27/23 07:17	1
Trichloroethene	ND		0.20	0.066	ug/L			07/27/23 07:17	1
Trichlorofluoromethane	ND		0.50	0.12	ug/L			07/27/23 07:17	1
Vinyl chloride	0.043	J	0.10	0.040	ug/L			07/27/23 07:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		80 - 120		07/27/23 07:17	1
4-Bromofluorobenzene (Surr)	91		80 - 120		07/27/23 07:17	1
Dibromofluoromethane (Surr)	108		80 - 120		07/27/23 07:17	1
Toluene-d8 (Surr)	98		80 - 120		07/27/23 07:17	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.050	0.014	mg/L			07/31/23 07:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		77 - 123					07/31/23 07:48	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.010	0.0021	ug/L		08/07/23 16:45	08/11/23 14:33	1
1,2-Dibromo-3-Chloropropane	ND		0.010	0.0021	ug/L		08/07/23 16:45	08/11/23 14:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	108		60 - 140				08/07/23 16:45	08/11/23 14:33	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	0.16		0.11	0.066	mg/L		07/31/23 09:03	08/01/23 03:39	1
Motor Oil (>C24-C36)	0.25	J	0.36	0.098	mg/L		07/31/23 09:03	08/01/23 03:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	70		50 - 150				07/31/23 09:03	08/01/23 03:39	

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.11	0.066	mg/L		07/31/23 09:03	07/31/23 23:51	1
Motor Oil (>C24-C36)	ND		0.36	0.098	mg/L		07/31/23 09:03	07/31/23 23:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	80		50 - 150				07/31/23 09:03	07/31/23 23:51	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.44	J	0.50	0.20	ng/L			07/28/23 19:36	1

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Client Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Client Sample ID: P94-GW-92-230725

Lab Sample ID: 580-129836-11

Date Collected: 07/25/23 13:30

Matrix: Water

Date Received: 07/25/23 15:05

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.29	J	0.50	0.20	ng/L			07/28/23 19:41	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.020	0.0080	ug/L		08/04/23 11:57	08/05/23 07:33	1
Arsenic	0.83	B	0.20	0.020	ug/L		08/04/23 11:57	08/05/23 07:33	1
Beryllium	ND		0.060	0.024	ug/L		08/04/23 11:57	08/05/23 07:33	1
Cadmium	ND		0.030	0.018	ug/L		08/04/23 11:57	08/05/23 07:33	1
Chromium	0.22	J	0.50	0.21	ug/L		08/04/23 11:57	08/05/23 07:33	1
Copper	ND		0.50	0.40	ug/L		08/04/23 11:57	08/05/23 07:33	1
Nickel	0.99		0.50	0.23	ug/L		08/04/23 11:57	08/05/23 07:33	1
Lead	ND		0.060	0.027	ug/L		08/04/23 11:57	08/05/23 07:33	1
Antimony	0.28		0.10	0.035	ug/L		08/04/23 11:57	08/05/23 07:33	1
Selenium	0.051	J B	0.30	0.050	ug/L		08/04/23 11:57	08/05/23 07:33	1
Thallium	0.0026	J	0.010	0.0020	ug/L		08/04/23 11:57	08/05/23 07:33	1
Zinc	1.6		1.0	0.82	ug/L		08/04/23 11:57	08/05/23 07:33	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.020	0.0080	ug/L		08/04/23 11:57	08/05/23 07:18	1
Arsenic	0.83	B	0.20	0.020	ug/L		08/04/23 11:57	08/05/23 07:18	1
Beryllium	ND		0.060	0.024	ug/L		08/04/23 11:57	08/05/23 07:18	1
Cadmium	ND		0.030	0.018	ug/L		08/04/23 11:57	08/05/23 07:18	1
Chromium	0.22	J	0.50	0.21	ug/L		08/04/23 11:57	08/05/23 07:18	1
Copper	ND		0.50	0.40	ug/L		08/04/23 11:57	08/05/23 07:18	1
Nickel	0.93		0.50	0.23	ug/L		08/04/23 11:57	08/05/23 07:18	1
Lead	ND		0.060	0.027	ug/L		08/04/23 11:57	08/05/23 07:18	1
Antimony	0.25		0.10	0.035	ug/L		08/04/23 11:57	08/05/23 07:18	1
Selenium	0.053	J B	0.30	0.050	ug/L		08/04/23 11:57	08/05/23 07:18	1
Thallium	ND		0.010	0.0020	ug/L		08/04/23 11:57	08/05/23 07:18	1
Zinc	1.6		1.0	0.82	ug/L		08/04/23 11:57	08/05/23 07:18	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	14		0.80	0.80	mg/L			07/28/23 23:18	1

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 570-350508/6

Matrix: Solid

Analysis Batch: 350508

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0010	0.00029	mg/Kg			07/31/23 21:56	1
1,1,1-Trichloroethane	ND		0.0010	0.00023	mg/Kg			07/31/23 21:56	1
1,1,2,2-Tetrachloroethane	ND		0.0020	0.00054	mg/Kg			07/31/23 21:56	1
1,1,2-Trichloroethane	ND		0.0010	0.00046	mg/Kg			07/31/23 21:56	1
1,1-Dichloroethane	ND		0.0010	0.00028	mg/Kg			07/31/23 21:56	1
1,1-Dichloroethene	ND		0.0010	0.00027	mg/Kg			07/31/23 21:56	1
1,1-Dichloropropene	ND		0.0020	0.00039	mg/Kg			07/31/23 21:56	1
1,2,3-Trichlorobenzene	ND		0.0020	0.00038	mg/Kg			07/31/23 21:56	1
1,2,3-Trichloropropane	ND		0.0020	0.00042	mg/Kg			07/31/23 21:56	1
1,2,4-Trichlorobenzene	ND		0.0020	0.00041	mg/Kg			07/31/23 21:56	1
1,2,4-Trimethylbenzene	ND		0.0020	0.00060	mg/Kg			07/31/23 21:56	1
1,2-Dibromo-3-Chloropropane	ND		0.010	0.0033	mg/Kg			07/31/23 21:56	1
1,2-Dibromoethane	ND		0.0010	0.00021	mg/Kg			07/31/23 21:56	1
1,2-Dichlorobenzene	ND		0.0010	0.00025	mg/Kg			07/31/23 21:56	1
1,2-Dichloroethane	ND		0.0010	0.00028	mg/Kg			07/31/23 21:56	1
1,2-Dichloropropane	ND		0.0010	0.00028	mg/Kg			07/31/23 21:56	1
1,3,5-Trimethylbenzene	ND		0.0020	0.00027	mg/Kg			07/31/23 21:56	1
1,3-Dichlorobenzene	ND		0.0010	0.00025	mg/Kg			07/31/23 21:56	1
1,3-Dichloropropane	ND		0.0010	0.00030	mg/Kg			07/31/23 21:56	1
1,4-Dichlorobenzene	ND		0.0010	0.00031	mg/Kg			07/31/23 21:56	1
2,2-Dichloropropane	ND		0.0050	0.00027	mg/Kg			07/31/23 21:56	1
2-Chlorotoluene	ND		0.0010	0.00025	mg/Kg			07/31/23 21:56	1
4-Chlorotoluene	ND		0.0010	0.00024	mg/Kg			07/31/23 21:56	1
4-Isopropyltoluene	ND		0.0010	0.00028	mg/Kg			07/31/23 21:56	1
Benzene	ND		0.0010	0.00026	mg/Kg			07/31/23 21:56	1
Bromobenzene	ND		0.0010	0.00021	mg/Kg			07/31/23 21:56	1
Bromochloromethane	ND		0.0020	0.00044	mg/Kg			07/31/23 21:56	1
Bromodichloromethane	ND		0.0010	0.00033	mg/Kg			07/31/23 21:56	1
Bromoform	ND		0.0050	0.0013	mg/Kg			07/31/23 21:56	1
Bromomethane	ND		0.020	0.0066	mg/Kg			07/31/23 21:56	1
Carbon tetrachloride	ND		0.0010	0.00030	mg/Kg			07/31/23 21:56	1
Chlorobenzene	ND		0.0010	0.00027	mg/Kg			07/31/23 21:56	1
Chloroethane	ND		0.0020	0.00074	mg/Kg			07/31/23 21:56	1
Chloroform	ND		0.0010	0.00059	mg/Kg			07/31/23 21:56	1
Chloromethane	ND		0.020	0.0015	mg/Kg			07/31/23 21:56	1
cis-1,2-Dichloroethene	ND		0.0010	0.00034	mg/Kg			07/31/23 21:56	1
cis-1,3-Dichloropropene	ND		0.0010	0.00035	mg/Kg			07/31/23 21:56	1
Dibromochloromethane	ND		0.0020	0.00027	mg/Kg			07/31/23 21:56	1
Dibromomethane	ND		0.0010	0.00031	mg/Kg			07/31/23 21:56	1
Dichlorodifluoromethane	ND		0.0020	0.00045	mg/Kg			07/31/23 21:56	1
Ethylbenzene	ND		0.0010	0.00021	mg/Kg			07/31/23 21:56	1
Hexachlorobutadiene	ND		0.0050	0.0017	mg/Kg			07/31/23 21:56	1
Isopropylbenzene	ND		0.0010	0.00028	mg/Kg			07/31/23 21:56	1
Methyl tert-butyl ether	ND		0.0020	0.00019	mg/Kg			07/31/23 21:56	1
Methylene Chloride	ND		0.010	0.0031	mg/Kg			07/31/23 21:56	1
m-Xylene & p-Xylene	ND		0.0020	0.00047	mg/Kg			07/31/23 21:56	1
Naphthalene	ND		0.010	0.0039	mg/Kg			07/31/23 21:56	1
n-Butylbenzene	ND		0.0010	0.00021	mg/Kg			07/31/23 21:56	1

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 570-350508/6

Matrix: Solid

Analysis Batch: 350508

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0020	0.00026	mg/Kg			07/31/23 21:56	1
o-Xylene	ND		0.0010	0.00026	mg/Kg			07/31/23 21:56	1
sec-Butylbenzene	ND		0.0010	0.00027	mg/Kg			07/31/23 21:56	1
Styrene	ND		0.0010	0.00032	mg/Kg			07/31/23 21:56	1
t-Butylbenzene	ND		0.0010	0.00025	mg/Kg			07/31/23 21:56	1
Tetrachloroethene	ND		0.0010	0.00022	mg/Kg			07/31/23 21:56	1
Toluene	ND		0.0010	0.00027	mg/Kg			07/31/23 21:56	1
trans-1,2-Dichloroethene	ND		0.0010	0.00030	mg/Kg			07/31/23 21:56	1
trans-1,3-Dichloropropene	ND		0.0020	0.00028	mg/Kg			07/31/23 21:56	1
Trichloroethene	ND		0.0020	0.00039	mg/Kg			07/31/23 21:56	1
Trichlorofluoromethane	ND		0.010	0.00027	mg/Kg			07/31/23 21:56	1
Vinyl chloride	ND		0.0010	0.00038	mg/Kg			07/31/23 21:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		32 - 179		07/31/23 21:56	1
4-Bromofluorobenzene (Surr)	99		80 - 120		07/31/23 21:56	1
Toluene-d8 (Surr)	103		80 - 120		07/31/23 21:56	1

Lab Sample ID: LCS 570-350508/3

Matrix: Solid

Analysis Batch: 350508

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	0.0500	0.0521		mg/Kg		104	80 - 125
1,1,1-Trichloroethane	0.0500	0.0522		mg/Kg		104	78 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.0551		mg/Kg		110	80 - 124
1,1,2-Trichloroethane	0.0500	0.0532		mg/Kg		106	80 - 123
1,1-Dichloroethane	0.0500	0.0498		mg/Kg		100	79 - 124
1,1-Dichloroethene	0.0500	0.0535		mg/Kg		107	74 - 132
1,1-Dichloropropene	0.0500	0.0515		mg/Kg		103	78 - 130
1,2,3-Trichlorobenzene	0.0500	0.0519		mg/Kg		104	80 - 123
1,2,3-Trichloropropane	0.0500	0.0463		mg/Kg		93	79 - 120
1,2,4-Trichlorobenzene	0.0500	0.0558		mg/Kg		112	80 - 125
1,2,4-Trimethylbenzene	0.0500	0.0540		mg/Kg		108	80 - 124
1,2-Dibromo-3-Chloropropane	0.0500	0.0486		mg/Kg		97	67 - 120
1,2-Dibromoethane	0.0500	0.0489		mg/Kg		98	80 - 120
1,2-Dichlorobenzene	0.0500	0.0539		mg/Kg		108	80 - 120
1,2-Dichloroethane	0.0500	0.0496		mg/Kg		99	77 - 120
1,2-Dichloropropane	0.0500	0.0521		mg/Kg		104	80 - 126
1,3,5-Trimethylbenzene	0.0500	0.0547		mg/Kg		109	80 - 121
1,3-Dichlorobenzene	0.0500	0.0534		mg/Kg		107	80 - 120
1,3-Dichloropropane	0.0500	0.0527		mg/Kg		105	80 - 120
1,4-Dichlorobenzene	0.0500	0.0534		mg/Kg		107	80 - 120
2,2-Dichloropropane	0.0500	0.0506		mg/Kg		101	73 - 135
2-Chlorotoluene	0.0500	0.0542		mg/Kg		108	80 - 120
4-Chlorotoluene	0.0500	0.0547		mg/Kg		109	80 - 121
4-Isopropyltoluene	0.0500	0.0550		mg/Kg		110	80 - 126
Benzene	0.0500	0.0522		mg/Kg		104	80 - 120

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 570-350508/3

Matrix: Solid

Analysis Batch: 350508

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	0.0500	0.0540		mg/Kg		108	80 - 120
Bromochloromethane	0.0500	0.0512		mg/Kg		102	80 - 120
Bromodichloromethane	0.0500	0.0537		mg/Kg		107	80 - 125
Bromoform	0.0500	0.0509		mg/Kg		102	74 - 138
Bromomethane	0.0500	0.0471		mg/Kg		94	58 - 136
Carbon tetrachloride	0.0500	0.0533		mg/Kg		107	75 - 140
Chlorobenzene	0.0500	0.0502		mg/Kg		100	80 - 120
Chloroethane	0.0500	0.0545		mg/Kg		109	76 - 137
Chloroform	0.0500	0.0535		mg/Kg		107	80 - 121
Chloromethane	0.0500	0.0523		mg/Kg		105	74 - 133
cis-1,2-Dichloroethene	0.0500	0.0519		mg/Kg		104	80 - 124
cis-1,3-Dichloropropene	0.0500	0.0484		mg/Kg		97	80 - 123
Dibromochloromethane	0.0500	0.0518		mg/Kg		104	80 - 132
Dibromomethane	0.0500	0.0526		mg/Kg		105	80 - 120
Dichlorodifluoromethane	0.0500	0.0541		mg/Kg		108	63 - 146
Ethylbenzene	0.0500	0.0533		mg/Kg		107	80 - 120
Hexachlorobutadiene	0.0500	0.0604		mg/Kg		121	80 - 127
Isopropylbenzene	0.0500	0.0579		mg/Kg		116	80 - 122
Methyl tert-butyl ether	0.0500	0.0509		mg/Kg		102	79 - 123
Methylene Chloride	0.0500	0.0517		mg/Kg		103	74 - 120
m-Xylene & p-Xylene	0.100	0.109		mg/Kg		109	80 - 120
Naphthalene	0.0500	0.0499		mg/Kg		100	79 - 121
n-Butylbenzene	0.0500	0.0589		mg/Kg		118	79 - 131
N-Propylbenzene	0.0500	0.0569		mg/Kg		114	80 - 122
o-Xylene	0.0500	0.0530		mg/Kg		106	80 - 120
sec-Butylbenzene	0.0500	0.0548		mg/Kg		110	80 - 125
Styrene	0.0500	0.0520		mg/Kg		104	80 - 120
t-Butylbenzene	0.0500	0.0496		mg/Kg		99	80 - 124
Tetrachloroethene	0.0500	0.0549		mg/Kg		110	80 - 122
Toluene	0.0500	0.0519		mg/Kg		104	80 - 120
trans-1,2-Dichloroethene	0.0500	0.0529		mg/Kg		106	75 - 123
trans-1,3-Dichloropropene	0.0500	0.0524		mg/Kg		105	80 - 124
Trichloroethene	0.0500	0.0535		mg/Kg		107	80 - 127
Trichlorofluoromethane	0.0500	0.0566		mg/Kg		113	70 - 144
Vinyl chloride	0.0500	0.0551		mg/Kg		110	79 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		32 - 179
4-Bromofluorobenzene (Surr)	100		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: LCSD 570-350508/4

Matrix: Solid

Analysis Batch: 350508

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.0500	0.0471		mg/Kg		94	80 - 125	10	20
1,1,1-Trichloroethane	0.0500	0.0484		mg/Kg		97	78 - 130	8	20

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 570-350508/4

Matrix: Solid

Analysis Batch: 350508

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	0.0500	0.0502		mg/Kg		100	80 - 124	9	20
1,1,2-Trichloroethane	0.0500	0.0476		mg/Kg		95	80 - 123	11	20
1,1-Dichloroethane	0.0500	0.0458		mg/Kg		92	79 - 124	8	20
1,1-Dichloroethene	0.0500	0.0484		mg/Kg		97	74 - 132	10	20
1,1-Dichloropropene	0.0500	0.0477		mg/Kg		95	78 - 130	8	20
1,2,3-Trichlorobenzene	0.0500	0.0488		mg/Kg		98	80 - 123	6	20
1,2,3-Trichloropropane	0.0500	0.0423		mg/Kg		85	79 - 120	9	20
1,2,4-Trichlorobenzene	0.0500	0.0527		mg/Kg		105	80 - 125	6	20
1,2,4-Trimethylbenzene	0.0500	0.0505		mg/Kg		101	80 - 124	7	20
1,2-Dibromo-3-Chloropropane	0.0500	0.0443		mg/Kg		89	67 - 120	9	20
1,2-Dibromoethane	0.0500	0.0440		mg/Kg		88	80 - 120	11	20
1,2-Dichlorobenzene	0.0500	0.0510		mg/Kg		102	80 - 120	6	20
1,2-Dichloroethane	0.0500	0.0483		mg/Kg		97	77 - 120	3	20
1,2-Dichloropropane	0.0500	0.0478		mg/Kg		96	80 - 126	9	20
1,3,5-Trimethylbenzene	0.0500	0.0492		mg/Kg		98	80 - 121	11	20
1,3-Dichlorobenzene	0.0500	0.0508		mg/Kg		102	80 - 120	5	20
1,3-Dichloropropane	0.0500	0.0500		mg/Kg		100	80 - 120	5	20
1,4-Dichlorobenzene	0.0500	0.0497		mg/Kg		99	80 - 120	7	20
2,2-Dichloropropane	0.0500	0.0461		mg/Kg		92	73 - 135	9	20
2-Chlorotoluene	0.0500	0.0482		mg/Kg		96	80 - 120	12	20
4-Chlorotoluene	0.0500	0.0510		mg/Kg		102	80 - 121	7	20
4-Isopropyltoluene	0.0500	0.0511		mg/Kg		102	80 - 126	7	20
Benzene	0.0500	0.0497		mg/Kg		99	80 - 120	5	20
Bromobenzene	0.0500	0.0500		mg/Kg		100	80 - 120	8	20
Bromochloromethane	0.0500	0.0491		mg/Kg		98	80 - 120	4	20
Bromodichloromethane	0.0500	0.0519		mg/Kg		104	80 - 125	3	20
Bromoform	0.0500	0.0492		mg/Kg		98	74 - 138	3	20
Bromomethane	0.0500	0.0454		mg/Kg		91	58 - 136	4	20
Carbon tetrachloride	0.0500	0.0490		mg/Kg		98	75 - 140	8	20
Chlorobenzene	0.0500	0.0464		mg/Kg		93	80 - 120	8	20
Chloroethane	0.0500	0.0514		mg/Kg		103	76 - 137	6	20
Chloroform	0.0500	0.0497		mg/Kg		99	80 - 121	7	20
Chloromethane	0.0500	0.0501		mg/Kg		100	74 - 133	4	20
cis-1,2-Dichloroethene	0.0500	0.0473		mg/Kg		95	80 - 124	9	20
cis-1,3-Dichloropropene	0.0500	0.0465		mg/Kg		93	80 - 123	4	20
Dibromochloromethane	0.0500	0.0471		mg/Kg		94	80 - 132	10	20
Dibromomethane	0.0500	0.0497		mg/Kg		99	80 - 120	6	20
Dichlorodifluoromethane	0.0500	0.0518		mg/Kg		104	63 - 146	4	20
Ethylbenzene	0.0500	0.0486		mg/Kg		97	80 - 120	9	20
Hexachlorobutadiene	0.0500	0.0553		mg/Kg		111	80 - 127	9	20
Isopropylbenzene	0.0500	0.0530		mg/Kg		106	80 - 122	9	20
Methyl tert-butyl ether	0.0500	0.0478		mg/Kg		96	79 - 123	6	20
Methylene Chloride	0.0500	0.0478		mg/Kg		96	74 - 120	8	20
m-Xylene & p-Xylene	0.100	0.0991		mg/Kg		99	80 - 120	9	20
Naphthalene	0.0500	0.0473		mg/Kg		95	79 - 121	6	20
n-Butylbenzene	0.0500	0.0547		mg/Kg		109	79 - 131	7	20
N-Propylbenzene	0.0500	0.0508		mg/Kg		102	80 - 122	11	20
o-Xylene	0.0500	0.0491		mg/Kg		98	80 - 120	8	20
sec-Butylbenzene	0.0500	0.0505		mg/Kg		101	80 - 125	8	20

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 570-350508/4

Matrix: Solid

Analysis Batch: 350508

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Styrene	0.0500	0.0482		mg/Kg		96	80 - 120	8	20
t-Butylbenzene	0.0500	0.0496		mg/Kg		99	80 - 124	0	20
Tetrachloroethene	0.0500	0.0485		mg/Kg		97	80 - 122	13	20
Toluene	0.0500	0.0479		mg/Kg		96	80 - 120	8	20
trans-1,2-Dichloroethene	0.0500	0.0498		mg/Kg		100	75 - 123	6	20
trans-1,3-Dichloropropene	0.0500	0.0480		mg/Kg		96	80 - 124	9	20
Trichloroethene	0.0500	0.0510		mg/Kg		102	80 - 127	5	20
Trichlorofluoromethane	0.0500	0.0540		mg/Kg		108	70 - 144	5	20
Vinyl chloride	0.0500	0.0528		mg/Kg		106	79 - 133	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		32 - 179
4-Bromofluorobenzene (Surr)	98		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-432883/7

Matrix: Water

Analysis Batch: 432883

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.038	ug/L			07/27/23 03:16	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			07/27/23 03:16	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			07/27/23 03:16	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			07/27/23 03:16	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			07/27/23 03:16	1
1,1-Dichloroethene	ND		0.20	0.035	ug/L			07/27/23 03:16	1
1,1-Dichloropropene	ND		0.20	0.084	ug/L			07/27/23 03:16	1
1,2,3-Trichlorobenzene	0.355	J	0.50	0.15	ug/L			07/27/23 03:16	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			07/27/23 03:16	1
1,2,4-Trichlorobenzene	0.229	J	0.50	0.17	ug/L			07/27/23 03:16	1
1,2,4-Trimethylbenzene	ND		0.50	0.20	ug/L			07/27/23 03:16	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.17	ug/L			07/27/23 03:16	1
1,2-Dichlorobenzene	0.0797	J	0.30	0.038	ug/L			07/27/23 03:16	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			07/27/23 03:16	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			07/27/23 03:16	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			07/27/23 03:16	1
1,3-Dichlorobenzene	0.0754	J	0.30	0.050	ug/L			07/27/23 03:16	1
1,3-Dichloropropane	ND		0.20	0.025	ug/L			07/27/23 03:16	1
1,4-Dichlorobenzene	0.0564	J	0.30	0.050	ug/L			07/27/23 03:16	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			07/27/23 03:16	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			07/27/23 03:16	1
4-Chlorotoluene	ND		0.30	0.12	ug/L			07/27/23 03:16	1
4-Isopropyltoluene	ND		0.50	0.15	ug/L			07/27/23 03:16	1
Benzene	ND		0.20	0.030	ug/L			07/27/23 03:16	1
Bromobenzene	ND		0.20	0.038	ug/L			07/27/23 03:16	1
Bromoform	ND		0.50	0.16	ug/L			07/27/23 03:16	1
Bromomethane	ND		0.50	0.13	ug/L			07/27/23 03:16	1

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-432883/7

Matrix: Water

Analysis Batch: 432883

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.20	0.025	ug/L			07/27/23 03:16	1
Chlorobenzene	ND		0.20	0.060	ug/L			07/27/23 03:16	1
Chlorobromomethane	ND		0.20	0.050	ug/L			07/27/23 03:16	1
Chlorodibromomethane	ND		0.20	0.055	ug/L			07/27/23 03:16	1
Chloroethane	ND		0.50	0.096	ug/L			07/27/23 03:16	1
Chloroform	ND		0.20	0.030	ug/L			07/27/23 03:16	1
Chloromethane	ND		0.50	0.14	ug/L			07/27/23 03:16	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			07/27/23 03:16	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			07/27/23 03:16	1
Dibromomethane	ND		0.20	0.062	ug/L			07/27/23 03:16	1
Dichlorobromomethane	ND		0.20	0.060	ug/L			07/27/23 03:16	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			07/27/23 03:16	1
Ethylbenzene	ND		0.20	0.030	ug/L			07/27/23 03:16	1
Ethylene Dibromide	ND		0.10	0.025	ug/L			07/27/23 03:16	1
Hexachlorobutadiene	0.135	J	0.50	0.067	ug/L			07/27/23 03:16	1
Isopropylbenzene	ND		1.0	0.19	ug/L			07/27/23 03:16	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			07/27/23 03:16	1
Methylene Chloride	ND		5.0	1.2	ug/L			07/27/23 03:16	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			07/27/23 03:16	1
Naphthalene	ND		1.0	0.22	ug/L			07/27/23 03:16	1
n-Butylbenzene	ND		1.0	0.23	ug/L			07/27/23 03:16	1
N-Propylbenzene	ND		0.30	0.091	ug/L			07/27/23 03:16	1
o-Xylene	ND		0.50	0.15	ug/L			07/27/23 03:16	1
sec-Butylbenzene	ND		1.0	0.17	ug/L			07/27/23 03:16	1
Styrene	ND		1.0	0.19	ug/L			07/27/23 03:16	1
tert-Butylbenzene	ND		0.50	0.26	ug/L			07/27/23 03:16	1
Tetrachloroethene	ND		0.50	0.084	ug/L			07/27/23 03:16	1
Toluene	ND		0.20	0.050	ug/L			07/27/23 03:16	1
trans-1,2-Dichloroethene	ND		0.20	0.033	ug/L			07/27/23 03:16	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			07/27/23 03:16	1
Trichloroethene	ND		0.20	0.066	ug/L			07/27/23 03:16	1
Trichlorofluoromethane	ND		0.50	0.12	ug/L			07/27/23 03:16	1
Vinyl chloride	ND		0.10	0.040	ug/L			07/27/23 03:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		80 - 120		07/27/23 03:16	1
4-Bromofluorobenzene (Surr)	88		80 - 120		07/27/23 03:16	1
Dibromofluoromethane (Surr)	100		80 - 120		07/27/23 03:16	1
Toluene-d8 (Surr)	104		80 - 120		07/27/23 03:16	1

Lab Sample ID: LCS 580-432883/4

Matrix: Water

Analysis Batch: 432883

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	5.00	4.61		ug/L		92	69 - 127
1,1,1-Trichloroethane	5.00	4.61		ug/L		92	70 - 121
1,1,2,2-Tetrachloroethane	5.00	5.07		ug/L		101	67 - 136

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-432883/4

Matrix: Water

Analysis Batch: 432883

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	5.00	5.31		ug/L		106	73 - 127
1,1-Dichloroethane	5.00	4.88		ug/L		98	74 - 120
1,1-Dichloroethene	5.00	4.76		ug/L		95	60 - 129
1,1-Dichloropropene	5.00	5.00		ug/L		100	72 - 125
1,2,3-Trichlorobenzene	5.00	5.59		ug/L		112	60 - 136
1,2,3-Trichloropropane	5.00	5.76		ug/L		115	67 - 135
1,2,4-Trichlorobenzene	5.00	5.35		ug/L		107	60 - 130
1,2,4-Trimethylbenzene	5.00	5.33		ug/L		107	71 - 127
1,2-Dibromo-3-Chloropropane	5.00	4.52		ug/L		90	55 - 135
1,2-Dichlorobenzene	5.00	5.33		ug/L		107	72 - 129
1,2-Dichloroethane	5.00	5.03		ug/L		101	74 - 127
1,2-Dichloropropane	5.00	5.24		ug/L		105	69 - 130
1,3,5-Trimethylbenzene	5.00	5.26		ug/L		105	75 - 123
1,3-Dichlorobenzene	5.00	5.25		ug/L		105	72 - 125
1,3-Dichloropropane	5.00	5.40		ug/L		108	69 - 138
1,4-Dichlorobenzene	5.00	5.18		ug/L		104	71 - 129
2,2-Dichloropropane	5.00	4.24		ug/L		85	55 - 140
2-Chlorotoluene	5.00	5.29		ug/L		106	73 - 120
4-Chlorotoluene	5.00	5.31		ug/L		106	75 - 124
4-Isopropyltoluene	5.00	5.24		ug/L		105	78 - 125
Benzene	5.00	4.91		ug/L		98	80 - 120
Bromobenzene	5.00	5.19		ug/L		104	74 - 130
Bromoform	5.00	3.74		ug/L		75	48 - 127
Bromomethane	5.00	4.60		ug/L		92	51 - 148
Carbon tetrachloride	5.00	4.47		ug/L		89	66 - 130
Chlorobenzene	5.00	4.98		ug/L		100	74 - 123
Chlorobromomethane	5.00	4.98		ug/L		100	79 - 121
Chlorodibromomethane	5.00	4.23		ug/L		85	62 - 141
Chloroethane	5.00	4.85		ug/L		97	54 - 140
Chloroform	5.00	4.83		ug/L		97	75 - 120
Chloromethane	5.00	4.57		ug/L		91	32 - 150
cis-1,2-Dichloroethene	5.00	4.72		ug/L		94	72 - 120
cis-1,3-Dichloropropene	5.00	5.08		ug/L		102	77 - 131
Dibromomethane	5.00	5.21		ug/L		104	65 - 141
Dichlorobromomethane	5.00	4.60		ug/L		92	74 - 131
Dichlorodifluoromethane	5.00	4.64		ug/L		93	20 - 150
Ethylbenzene	5.00	5.11		ug/L		102	80 - 124
Ethylene Dibromide	5.00	5.22		ug/L		104	61 - 143
Hexachlorobutadiene	5.00	4.98		ug/L		100	63 - 130
Isopropylbenzene	5.00	5.04		ug/L		101	71 - 123
Methyl tert-butyl ether	5.00	5.03		ug/L		101	61 - 131
Methylene Chloride	5.00	4.82	J	ug/L		96	40 - 142
m-Xylene & p-Xylene	5.00	5.08		ug/L		102	75 - 124
Naphthalene	5.00	5.49		ug/L		110	54 - 137
n-Butylbenzene	5.00	5.32		ug/L		106	69 - 127
N-Propylbenzene	5.00	5.25		ug/L		105	72 - 126
o-Xylene	5.00	5.10		ug/L		102	71 - 124
sec-Butylbenzene	5.00	5.24		ug/L		105	75 - 126
Styrene	5.00	5.14		ug/L		103	74 - 127

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-432883/4

Matrix: Water

Analysis Batch: 432883

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
tert-Butylbenzene	5.00	5.20		ug/L		104	70 - 129
Tetrachloroethene	5.00	5.00		ug/L		100	75 - 124
Toluene	5.00	5.14		ug/L		103	80 - 126
trans-1,2-Dichloroethene	5.00	4.83		ug/L		97	69 - 121
trans-1,3-Dichloropropene	5.00	5.01		ug/L		100	71 - 138
Trichloroethene	5.00	4.97		ug/L		99	72 - 120
Trichlorofluoromethane	5.00	4.77		ug/L		95	60 - 132
Vinyl chloride	5.00	4.72		ug/L		94	41 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	97		80 - 120
Toluene-d8 (Surr)	103		80 - 120

Lab Sample ID: LCSD 580-432883/5

Matrix: Water

Analysis Batch: 432883

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	5.00	4.71		ug/L		94	69 - 127	2	22
1,1,1-Trichloroethane	5.00	4.89		ug/L		98	70 - 121	6	24
1,1,2,2-Tetrachloroethane	5.00	4.67		ug/L		93	67 - 136	8	24
1,1,2-Trichloroethane	5.00	4.94		ug/L		99	73 - 127	7	22
1,1-Dichloroethane	5.00	5.10		ug/L		102	74 - 120	4	26
1,1-Dichloroethene	5.00	5.06		ug/L		101	60 - 129	6	29
1,1-Dichloropropene	5.00	4.94		ug/L		99	72 - 125	1	23
1,2,3-Trichlorobenzene	5.00	5.79		ug/L		116	60 - 136	4	28
1,2,3-Trichloropropane	5.00	5.30		ug/L		106	67 - 135	8	25
1,2,4-Trichlorobenzene	5.00	5.36		ug/L		107	60 - 130	0	26
1,2,4-Trimethylbenzene	5.00	5.23		ug/L		105	71 - 127	2	23
1,2-Dibromo-3-Chloropropane	5.00	4.11		ug/L		82	55 - 135	9	29
1,2-Dichlorobenzene	5.00	5.21		ug/L		104	72 - 129	2	22
1,2-Dichloroethane	5.00	4.85		ug/L		97	74 - 127	4	21
1,2-Dichloropropane	5.00	5.06		ug/L		101	69 - 130	3	22
1,3,5-Trimethylbenzene	5.00	5.10		ug/L		102	75 - 123	3	23
1,3-Dichlorobenzene	5.00	5.14		ug/L		103	72 - 125	2	22
1,3-Dichloropropane	5.00	4.92		ug/L		98	69 - 138	9	19
1,4-Dichlorobenzene	5.00	5.10		ug/L		102	71 - 129	1	22
2,2-Dichloropropane	5.00	4.47		ug/L		89	55 - 140	5	31
2-Chlorotoluene	5.00	4.99		ug/L		100	73 - 120	6	22
4-Chlorotoluene	5.00	5.07		ug/L		101	75 - 124	5	23
4-Isopropyltoluene	5.00	5.21		ug/L		104	78 - 125	0	24
Benzene	5.00	4.88		ug/L		98	80 - 120	1	22
Bromobenzene	5.00	4.73		ug/L		95	74 - 130	9	23
Bromoform	5.00	3.73		ug/L		75	48 - 127	0	23
Bromomethane	5.00	4.83		ug/L		97	51 - 148	5	35
Carbon tetrachloride	5.00	4.72		ug/L		94	66 - 130	6	24

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-432883/5

Matrix: Water

Analysis Batch: 432883

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene	5.00	4.92		ug/L		98	74 - 123	1	21
Chlorobromomethane	5.00	5.10		ug/L		102	79 - 121	2	20
Chlorodibromomethane	5.00	4.06		ug/L		81	62 - 141	4	22
Chloroethane	5.00	5.12		ug/L		102	54 - 140	5	33
Chloroform	5.00	4.94		ug/L		99	75 - 120	2	21
Chloromethane	5.00	4.80		ug/L		96	32 - 150	5	33
cis-1,2-Dichloroethene	5.00	4.94		ug/L		99	72 - 120	5	22
cis-1,3-Dichloropropene	5.00	4.71		ug/L		94	77 - 131	7	24
Dibromomethane	5.00	5.07		ug/L		101	65 - 141	3	22
Dichlorobromomethane	5.00	4.40		ug/L		88	74 - 131	4	21
Dichlorodifluoromethane	5.00	5.08		ug/L		102	20 - 150	9	30
Ethylbenzene	5.00	5.05		ug/L		101	80 - 124	1	22
Ethylene Dibromide	5.00	4.99		ug/L		100	61 - 143	4	22
Hexachlorobutadiene	5.00	5.31		ug/L		106	63 - 130	6	26
Isopropylbenzene	5.00	5.21		ug/L		104	71 - 123	3	23
Methyl tert-butyl ether	5.00	5.19		ug/L		104	61 - 131	3	27
Methylene Chloride	5.00	5.12		ug/L		102	40 - 142	6	25
m-Xylene & p-Xylene	5.00	5.04		ug/L		101	75 - 124	1	22
Naphthalene	5.00	5.24		ug/L		105	54 - 137	5	28
n-Butylbenzene	5.00	5.26		ug/L		105	69 - 127	1	24
N-Propylbenzene	5.00	4.93		ug/L		99	72 - 126	6	20
o-Xylene	5.00	5.19		ug/L		104	71 - 124	2	23
sec-Butylbenzene	5.00	5.17		ug/L		103	75 - 126	1	23
Styrene	5.00	5.08		ug/L		102	74 - 127	1	22
tert-Butylbenzene	5.00	4.96		ug/L		99	70 - 129	5	24
Tetrachloroethene	5.00	4.78		ug/L		96	75 - 124	4	20
Toluene	5.00	4.92		ug/L		98	80 - 126	5	20
trans-1,2-Dichloroethene	5.00	5.12		ug/L		102	69 - 121	6	27
trans-1,3-Dichloropropene	5.00	4.58		ug/L		92	71 - 138	9	26
Trichloroethene	5.00	4.91		ug/L		98	72 - 120	1	22
Trichlorofluoromethane	5.00	5.04		ug/L		101	60 - 132	5	32
Vinyl chloride	5.00	4.90		ug/L		98	41 - 150	4	32

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	101		80 - 120

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 580-433010/6-A

Matrix: Solid

Analysis Batch: 433291

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 433010

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0	0.57	mg/Kg		07/31/23 09:05	07/31/23 13:16	1

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: MB 580-433010/6-A
Matrix: Solid
Analysis Batch: 433291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 433010

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	95		66 - 125				07/31/23 09:05	07/31/23 13:16	1	

Lab Sample ID: LCS 580-433010/9-A
Matrix: Solid
Analysis Batch: 433291

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 433010

			Spike	LCS	LCS						
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline			40.0	42.3		mg/Kg		106	80 - 120		
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	101		66 - 125								

Lab Sample ID: LCSD 580-433010/10-A
Matrix: Solid
Analysis Batch: 433291

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 433010

			Spike	LCSD	LCSD							
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline			40.0	39.1		mg/Kg		98	80 - 120	8	10	
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	103		66 - 125									

Lab Sample ID: MB 580-433192/6
Matrix: Water
Analysis Batch: 433192

Client Sample ID: Method Blank
Prep Type: Total/NA

	MB	MB									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline	ND		0.050	0.014	mg/L			07/31/23 02:31	1		
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	97		77 - 123					07/31/23 02:31	1		

Lab Sample ID: LCS 580-433192/9
Matrix: Water
Analysis Batch: 433192

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

			Spike	LCS	LCS						
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline			1.00	0.891		mg/L		89	55 - 148		
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	102		77 - 123								

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: LCSD 580-433192/10

Matrix: Water

Analysis Batch: 433192

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline	1.00	0.933		mg/L		93	55 - 148	5	10
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	97		77 - 123						

Lab Sample ID: MB 580-433352/1-A

Matrix: Solid

Analysis Batch: 433380

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 433352

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0	0.57	mg/Kg		08/01/23 08:00	08/01/23 11:42	1
Surrogate	%Recovery	MB Qualifier	Limits						
4-Bromofluorobenzene (Surr)	98		66 - 125						
							Prepared	Analyzed	Dil Fac
							08/01/23 08:00	08/01/23 11:42	1

Lab Sample ID: LCS 580-433352/4-A

Matrix: Solid

Analysis Batch: 433380

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 433352

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline			40.0	41.6		mg/Kg		104	80 - 120		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	105		66 - 125								

Lab Sample ID: LCSD 580-433352/5-A

Matrix: Solid

Analysis Batch: 433380

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 433352

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline	40.0	39.4		mg/Kg		98	80 - 120	5	10
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	99		66 - 125						

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-433002/1-A

Matrix: Solid

Analysis Batch: 433295

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 433002

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.050	0.0060	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
1,2-Dichlorobenzene	ND		0.050	0.0050	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
1,3-Dichlorobenzene	ND		0.050	0.0048	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
1,4-Dichlorobenzene	ND		0.050	0.0083	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
1-Methylnaphthalene	ND		0.030	0.0050	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
2,4,5-Trichlorophenol	ND		0.20	0.0081	mg/Kg		07/27/23 16:38	07/31/23 15:24	1

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-433002/1-A

Matrix: Solid

Analysis Batch: 433295

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 433002

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		0.15	0.013	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
2,4-Dichlorophenol	ND		0.20	0.028	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
2,4-Dimethylphenol	ND		0.20	0.060	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
2,4-Dinitrophenol	ND		2.0	0.59	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
2,4-Dinitrotoluene	ND		0.20	0.043	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
2,6-Dinitrotoluene	ND		0.15	0.015	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
2-Chloronaphthalene	ND		0.025	0.0050	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
2-Chlorophenol	ND		0.20	0.0040	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
2-Methylnaphthalene	ND		0.050	0.0088	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
2-Methylphenol	ND		0.15	0.0098	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
2-Nitroaniline	ND		0.10	0.015	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
2-Nitrophenol	ND		0.20	0.0062	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
3 & 4 Methylphenol	ND		0.20	0.015	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
3,3'-Dichlorobenzidine	ND		0.40	0.084	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
3-Nitroaniline	ND		0.30	0.10	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
4,6-Dinitro-2-methylphenol	ND		1.0	0.10	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
4-Bromophenyl phenyl ether	ND		0.20	0.0091	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
4-Chloro-3-methylphenol	ND		0.15	0.033	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
4-Chloroaniline	ND		1.5	0.13	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
4-Chlorophenyl phenyl ether	ND		0.20	0.0063	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
4-Nitroaniline	ND		0.15	0.050	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
4-Nitrophenol	ND		2.0	0.17	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Acenaphthene	ND		0.040	0.0046	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Acenaphthylene	ND		0.025	0.0050	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Anthracene	ND		0.060	0.016	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Benzo[a]anthracene	ND		0.040	0.011	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Benzo[a]pyrene	ND		0.060	0.013	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Benzo[b]fluoranthene	ND		0.040	0.010	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Benzo[g,h,i]perylene	ND		0.060	0.018	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Benzo[k]fluoranthene	ND		0.060	0.014	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Benzoic acid	ND		4.0	1.2	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Benzyl alcohol	ND		1.0	0.050	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Bis(2-chloroethoxy)methane	ND		0.20	0.018	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Bis(2-chloroethyl)ether	ND		0.10	0.0077	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Bis(2-ethylhexyl) phthalate	ND		0.60	0.071	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
bis(chloroisopropyl) ether	ND		0.20	0.0061	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Butyl benzyl phthalate	ND		0.20	0.051	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Carbazole	ND		0.15	0.0073	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Chrysene	ND		0.060	0.013	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Dibenz(a,h)anthracene	ND		0.050	0.012	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Dibenzofuran	ND		0.15	0.0059	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Diethyl phthalate	ND		0.40	0.022	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Dimethyl phthalate	ND		0.15	0.0050	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Di-n-butyl phthalate	ND		0.50	0.027	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Di-n-octyl phthalate	ND		0.15	0.012	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Fluoranthene	ND		0.040	0.012	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Fluorene	ND		0.025	0.0050	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Hexachlorobenzene	ND		0.050	0.015	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Hexachlorobutadiene	ND		0.050	0.015	mg/Kg		07/27/23 16:38	07/31/23 15:24	1

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-433002/1-A

Matrix: Solid

Analysis Batch: 433295

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 433002

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.10	0.0077	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Hexachloroethane	ND		0.15	0.0043	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Indeno[1,2,3-cd]pyrene	ND		0.040	0.012	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Isophorone	ND		0.15	0.0084	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Naphthalene	ND		0.025	0.0050	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Nitrobenzene	ND		0.20	0.020	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
N-Nitrosodi-n-propylamine	ND		0.20	0.022	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
N-Nitrosodiphenylamine	ND		0.060	0.0080	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Pentachlorophenol	ND		0.40	0.063	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Phenanthrene	ND		0.060	0.0058	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Phenol	ND		0.15	0.023	mg/Kg		07/27/23 16:38	07/31/23 15:24	1
Pyrene	ND		0.060	0.013	mg/Kg		07/27/23 16:38	07/31/23 15:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	71		62 - 122	07/27/23 16:38	07/31/23 15:24	1
2-Fluorobiphenyl	98		64 - 120	07/27/23 16:38	07/31/23 15:24	1
2-Fluorophenol (Surr)	95		58 - 120	07/27/23 16:38	07/31/23 15:24	1
Nitrobenzene-d5 (Surr)	86		63 - 120	07/27/23 16:38	07/31/23 15:24	1
Phenol-d5 (Surr)	81		59 - 120	07/27/23 16:38	07/31/23 15:24	1
Terphenyl-d14 (Surr)	122		73 - 125	07/27/23 16:38	07/31/23 15:24	1

Lab Sample ID: LCS 580-433002/2-A

Matrix: Solid

Analysis Batch: 433295

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 433002

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	2.00	2.04		mg/Kg		102	66 - 125
1,2-Dichlorobenzene	2.00	2.10		mg/Kg		105	68 - 120
1,3-Dichlorobenzene	2.00	2.02		mg/Kg		101	65 - 120
1,4-Dichlorobenzene	2.00	2.15		mg/Kg		108	68 - 120
1-Methylnaphthalene	2.00	2.10		mg/Kg		105	69 - 120
2,4,5-Trichlorophenol	2.00	2.08		mg/Kg		104	60 - 120
2,4,6-Trichlorophenol	2.00	2.07		mg/Kg		103	68 - 120
2,4-Dichlorophenol	2.00	2.05		mg/Kg		103	63 - 120
2,4-Dimethylphenol	2.00	2.08		mg/Kg		104	55 - 120
2,4-Dinitrophenol	4.00	4.32		mg/Kg		108	10 - 139
2,4-Dinitrotoluene	2.00	2.05		mg/Kg		102	63 - 120
2,6-Dinitrotoluene	2.00	2.06		mg/Kg		103	70 - 126
2-Chloronaphthalene	2.00	2.18		mg/Kg		109	65 - 120
2-Chlorophenol	2.00	2.17		mg/Kg		109	66 - 120
2-Methylnaphthalene	2.00	2.19		mg/Kg		109	75 - 120
2-Methylphenol	2.00	2.16		mg/Kg		108	53 - 120
2-Nitroaniline	2.00	2.16		mg/Kg		108	65 - 120
2-Nitrophenol	2.00	2.11		mg/Kg		105	67 - 131
3 & 4 Methylphenol	2.00	2.11		mg/Kg		105	54 - 120
3,3'-Dichlorobenzidine	4.00	3.40		mg/Kg		85	41 - 137
3-Nitroaniline	2.00	1.92		mg/Kg		96	28 - 120
4,6-Dinitro-2-methylphenol	4.00	4.42		mg/Kg		110	10 - 141

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-433002/2-A

Matrix: Solid

Analysis Batch: 433295

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 433002

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Bromophenyl phenyl ether	2.00	2.16		mg/Kg		108	65 - 127
4-Chloro-3-methylphenol	2.00	2.09		mg/Kg		105	55 - 120
4-Chloroaniline	2.00	1.73		mg/Kg		86	10 - 120
4-Chlorophenyl phenyl ether	2.00	2.19		mg/Kg		110	70 - 120
4-Nitroaniline	2.00	2.70	*+	mg/Kg		135	53 - 123
4-Nitrophenol	4.00	4.07		mg/Kg		102	26 - 140
Acenaphthene	2.00	2.08		mg/Kg		104	64 - 120
Acenaphthylene	2.00	2.25		mg/Kg		112	72 - 120
Anthracene	2.00	2.26		mg/Kg		113	67 - 120
Benzo[a]anthracene	2.00	2.25		mg/Kg		112	60 - 135
Benzo[a]pyrene	2.00	1.92		mg/Kg		96	70 - 129
Benzo[b]fluoranthene	2.00	2.12		mg/Kg		106	58 - 136
Benzo[g,h,i]perylene	2.00	2.01		mg/Kg		101	50 - 130
Benzo[k]fluoranthene	2.00	2.01		mg/Kg		100	57 - 142
Benzoic acid	4.00	3.39	J	mg/Kg		85	10 - 120
Benzyl alcohol	2.00	2.06		mg/Kg		103	10 - 134
Bis(2-chloroethoxy)methane	2.00	2.21		mg/Kg		110	60 - 120
Bis(2-chloroethyl)ether	2.00	2.01		mg/Kg		101	61 - 120
Bis(2-ethylhexyl) phthalate	2.00	1.99		mg/Kg		99	56 - 150
bis(chloroisopropyl) ether	2.00	1.99		mg/Kg		100	39 - 129
Butyl benzyl phthalate	2.00	2.15		mg/Kg		107	58 - 150
Carbazole	2.00	2.22		mg/Kg		111	76 - 150
Chrysene	2.00	1.86		mg/Kg		93	69 - 127
Dibenz(a,h)anthracene	2.00	2.00		mg/Kg		100	51 - 139
Dibenzofuran	2.00	2.20		mg/Kg		110	68 - 120
Diethyl phthalate	2.00	2.16		mg/Kg		108	71 - 120
Dimethyl phthalate	2.00	2.24		mg/Kg		112	71 - 120
Di-n-butyl phthalate	2.00	2.23		mg/Kg		111	66 - 135
Di-n-octyl phthalate	2.00	2.09		mg/Kg		105	53 - 150
Fluoranthene	2.00	2.33		mg/Kg		116	69 - 133
Fluorene	2.00	2.24		mg/Kg		112	68 - 121
Hexachlorobenzene	2.00	1.89		mg/Kg		94	65 - 126
Hexachlorobutadiene	2.00	1.97		mg/Kg		98	56 - 146
Hexachlorocyclopentadiene	2.00	2.06		mg/Kg		103	36 - 124
Hexachloroethane	2.00	1.91		mg/Kg		95	68 - 120
Indeno[1,2,3-cd]pyrene	2.00	2.00		mg/Kg		100	43 - 133
Isophorone	2.00	2.23		mg/Kg		112	61 - 123
Naphthalene	2.00	2.15		mg/Kg		108	68 - 120
Nitrobenzene	2.00	2.01		mg/Kg		101	57 - 128
N-Nitrosodi-n-propylamine	2.00	2.23		mg/Kg		111	63 - 120
N-Nitrosodiphenylamine	2.00	2.04		mg/Kg		102	67 - 120
Pentachlorophenol	4.00	4.47		mg/Kg		112	18 - 133
Phenanthrene	2.00	2.02		mg/Kg		101	74 - 120
Phenol	2.00	2.20		mg/Kg		110	59 - 120
Pyrene	2.00	2.37		mg/Kg		119	68 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	97		62 - 122

Eurofins Seattle

QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-433002/2-A

Matrix: Solid

Analysis Batch: 433295

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 433002

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	99		64 - 120
2-Fluorophenol (Surr)	96		58 - 120
Nitrobenzene-d5 (Surr)	90		63 - 120
Phenol-d5 (Surr)	107		59 - 120
Terphenyl-d14 (Surr)	110		73 - 125

Lab Sample ID: LCSD 580-433002/3-A

Matrix: Solid

Analysis Batch: 433295

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 433002

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	2.00	1.96		mg/Kg		98	66 - 125	4	18
1,2-Dichlorobenzene	2.00	1.99		mg/Kg		99	68 - 120	5	30
1,3-Dichlorobenzene	2.00	1.99		mg/Kg		100	65 - 120	2	29
1,4-Dichlorobenzene	2.00	1.96		mg/Kg		98	68 - 120	10	35
1-Methylnaphthalene	2.00	2.03		mg/Kg		102	69 - 120	3	24
2,4,5-Trichlorophenol	2.00	2.06		mg/Kg		103	60 - 120	1	23
2,4,6-Trichlorophenol	2.00	2.04		mg/Kg		102	68 - 120	1	20
2,4-Dichlorophenol	2.00	2.00		mg/Kg		100	63 - 120	3	19
2,4-Dimethylphenol	2.00	2.11		mg/Kg		105	55 - 120	1	40
2,4-Dinitrophenol	4.00	4.20		mg/Kg		105	10 - 139	3	40
2,4-Dinitrotoluene	2.00	2.09		mg/Kg		104	63 - 120	2	23
2,6-Dinitrotoluene	2.00	2.01		mg/Kg		100	70 - 126	3	18
2-Chloronaphthalene	2.00	2.14		mg/Kg		107	65 - 120	2	21
2-Chlorophenol	2.00	2.28		mg/Kg		114	66 - 120	5	32
2-Methylnaphthalene	2.00	2.11		mg/Kg		105	75 - 120	4	21
2-Methylphenol	2.00	2.23		mg/Kg		111	53 - 120	3	40
2-Nitroaniline	2.00	2.11		mg/Kg		106	65 - 120	2	16
2-Nitrophenol	2.00	2.23		mg/Kg		111	67 - 131	5	30
3 & 4 Methylphenol	2.00	2.15		mg/Kg		108	54 - 120	2	36
3,3'-Dichlorobenzidine	4.00	3.49		mg/Kg		87	41 - 137	3	40
3-Nitroaniline	2.00	1.79		mg/Kg		90	28 - 120	7	25
4,6-Dinitro-2-methylphenol	4.00	4.31		mg/Kg		108	10 - 141	2	40
4-Bromophenyl phenyl ether	2.00	2.20		mg/Kg		110	65 - 127	2	32
4-Chloro-3-methylphenol	2.00	2.11		mg/Kg		105	55 - 120	1	25
4-Chloroaniline	2.00	1.71		mg/Kg		85	10 - 120	1	40
4-Chlorophenyl phenyl ether	2.00	2.20		mg/Kg		110	70 - 120	0	21
4-Nitroaniline	2.00	2.55	*+	mg/Kg		127	53 - 123	6	23
4-Nitrophenol	4.00	3.60		mg/Kg		90	26 - 140	12	31
Acenaphthene	2.00	2.05		mg/Kg		103	64 - 120	1	19
Acenaphthylene	2.00	2.19		mg/Kg		109	72 - 120	3	18
Anthracene	2.00	2.20		mg/Kg		110	67 - 120	2	28
Benzo[a]anthracene	2.00	2.28		mg/Kg		114	60 - 135	1	21
Benzo[a]pyrene	2.00	1.90		mg/Kg		95	70 - 129	1	27
Benzo[b]fluoranthene	2.00	2.05		mg/Kg		102	58 - 136	4	25
Benzo[g,h,i]perylene	2.00	1.97		mg/Kg		98	50 - 130	2	26
Benzo[k]fluoranthene	2.00	2.03		mg/Kg		102	57 - 142	1	18
Benzoic acid	4.00	3.34	J	mg/Kg		84	10 - 120	1	40

Eurofins Seattle

QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-433002/3-A

Matrix: Solid

Analysis Batch: 433295

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 433002

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzyl alcohol	2.00	2.02		mg/Kg		101	10 - 134	2	40
Bis(2-chloroethoxy)methane	2.00	2.13		mg/Kg		106	60 - 120	4	33
Bis(2-chloroethyl)ether	2.00	2.10		mg/Kg		105	61 - 120	4	30
Bis(2-ethylhexyl) phthalate	2.00	2.00		mg/Kg		100	56 - 150	1	25
bis(chloroisopropyl) ether	2.00	1.93		mg/Kg		96	39 - 129	3	33
Butyl benzyl phthalate	2.00	2.18		mg/Kg		109	58 - 150	2	27
Carbazole	2.00	2.19		mg/Kg		110	76 - 150	2	24
Chrysene	2.00	1.93		mg/Kg		97	69 - 127	4	27
Dibenz(a,h)anthracene	2.00	2.00		mg/Kg		100	51 - 139	0	29
Dibenzofuran	2.00	2.15		mg/Kg		107	68 - 120	2	18
Diethyl phthalate	2.00	2.14		mg/Kg		107	71 - 120	1	22
Dimethyl phthalate	2.00	2.20		mg/Kg		110	71 - 120	2	21
Di-n-butyl phthalate	2.00	2.24		mg/Kg		112	66 - 135	1	26
Di-n-octyl phthalate	2.00	2.05		mg/Kg		103	53 - 150	2	18
Fluoranthene	2.00	2.32		mg/Kg		116	69 - 133	0	21
Fluorene	2.00	2.25		mg/Kg		112	68 - 121	0	17
Hexachlorobenzene	2.00	1.88		mg/Kg		94	65 - 126	0	32
Hexachlorobutadiene	2.00	1.91		mg/Kg		95	56 - 146	3	19
Hexachlorocyclopentadiene	2.00	2.04		mg/Kg		102	36 - 124	1	21
Hexachloroethane	2.00	1.85		mg/Kg		92	68 - 120	3	34
Indeno[1,2,3-cd]pyrene	2.00	2.03		mg/Kg		102	43 - 133	2	30
Isophorone	2.00	2.22		mg/Kg		111	61 - 123	1	31
Naphthalene	2.00	2.06		mg/Kg		103	68 - 120	4	15
Nitrobenzene	2.00	2.06		mg/Kg		103	57 - 128	2	33
N-Nitrosodi-n-propylamine	2.00	2.19		mg/Kg		109	63 - 120	2	35
N-Nitrosodiphenylamine	2.00	2.06		mg/Kg		103	67 - 120	1	30
Pentachlorophenol	4.00	4.46		mg/Kg		112	18 - 133	0	40
Phenanthrene	2.00	2.02		mg/Kg		101	74 - 120	0	27
Phenol	2.00	2.10		mg/Kg		105	59 - 120	5	30
Pyrene	2.00	2.40		mg/Kg		120	68 - 126	1	24

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	102		62 - 122
2-Fluorobiphenyl	99		64 - 120
2-Fluorophenol (Surr)	96		58 - 120
Nitrobenzene-d5 (Surr)	92		63 - 120
Phenol-d5 (Surr)	106		59 - 120
Terphenyl-d14 (Surr)	114		73 - 125

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 580-433984/1-A

Matrix: Water

Analysis Batch: 434381

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 433984

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.010	0.0020	ug/L		08/07/23 16:45	08/11/23 12:59	1
1,2-Dibromo-3-Chloropropane	ND		0.010	0.0020	ug/L		08/07/23 16:45	08/11/23 12:59	1

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: MB 580-433984/1-A

Matrix: Water

Analysis Batch: 434381

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 433984

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	104		60 - 140	08/07/23 16:45	08/11/23 12:59	1

Lab Sample ID: LCS 580-433984/2-A

Matrix: Water

Analysis Batch: 434381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 433984

			Spike	LCS	LCS						
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec		
Ethylene Dibromide			0.0576	0.0699		ug/L		121	60 - 140		
1,2-Dibromo-3-Chloropropane			0.0575	0.0676		ug/L		118	60 - 140		
			LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dibromopropane	120		60 - 140								

Lab Sample ID: LCSD 580-433984/3-A

Matrix: Water

Analysis Batch: 434381

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 433984

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ethylene Dibromide			0.0578	0.0729		ug/L		126	60 - 140	4	20
1,2-Dibromo-3-Chloropropane			0.0576	0.0757		ug/L		131	60 - 140	11	20
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dibromopropane	138		60 - 140								

Lab Sample ID: LLCS 580-433984/4-A

Matrix: Water

Analysis Batch: 434381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 433984

			Spike	LLCS	LLCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylene Dibromide			0.0116	0.0104		ug/L		90	60 - 145		
1,2-Dibromo-3-Chloropropane			0.0116	0.0113		ug/L		97	60 - 145		

Lab Sample ID: LLCS 580-433984/5-A

Matrix: Water

Analysis Batch: 434381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 433984

			Spike	LLCS	LLCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylene Dibromide			0.00575	0.00544	J	ug/L		95	60 - 145		
1,2-Dibromo-3-Chloropropane			0.00573	0.00712	J	ug/L		124	60 - 145		
			LLCS	LLCS							
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dibromopropane	107		60 - 140								

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-433353/1-A

Matrix: Solid

Analysis Batch: 434774

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 433353

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.020	0.0074	mg/Kg		08/01/23 10:10	08/15/23 20:35	1
PCB-1221	ND		0.020	0.012	mg/Kg		08/01/23 10:10	08/15/23 20:35	1
PCB-1232	ND		0.020	0.0049	mg/Kg		08/01/23 10:10	08/15/23 20:35	1
PCB-1242	ND		0.020	0.0080	mg/Kg		08/01/23 10:10	08/15/23 20:35	1
PCB-1248	ND		0.020	0.0070	mg/Kg		08/01/23 10:10	08/15/23 20:35	1
PCB-1254	ND		0.020	0.0090	mg/Kg		08/01/23 10:10	08/15/23 20:35	1
PCB-1260	ND		0.020	0.0074	mg/Kg		08/01/23 10:10	08/15/23 20:35	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	46		44 - 135				08/01/23 10:10	08/15/23 20:35	1
Tetrachloro-m-xylene	77		48 - 150				08/01/23 10:10	08/15/23 20:35	1

Lab Sample ID: LCS 580-433353/2-A

Matrix: Solid

Analysis Batch: 434774

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 433353

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.100	0.0816		mg/Kg		82	42 - 150
PCB-1260	0.100	0.0838		mg/Kg		84	43 - 145
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
DCB Decachlorobiphenyl	48		44 - 135				
Tetrachloro-m-xylene	80		48 - 150				

Lab Sample ID: LCSD 580-433353/3-A

Matrix: Solid

Analysis Batch: 434774

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 433353

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	0.100	0.0809		mg/Kg		81	42 - 150	1	17
PCB-1260	0.100	0.0833		mg/Kg		83	43 - 145	1	13
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
DCB Decachlorobiphenyl	46		44 - 135						
Tetrachloro-m-xylene	75		48 - 150						

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-433065/1-A

Matrix: Solid

Analysis Batch: 433444

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 433065

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		50	12	mg/Kg		07/28/23 12:00	08/02/23 06:16	1
Motor Oil (>C24-C36)	ND		50	18	mg/Kg		07/28/23 12:00	08/02/23 06:16	1

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 580-433065/1-A

Matrix: Solid

Analysis Batch: 433444

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 433065

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	88		50 - 150	07/28/23 12:00	08/02/23 06:16	1

Lab Sample ID: LCS 580-433065/2-A

Matrix: Solid

Analysis Batch: 433444

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 433065

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
#2 Diesel (C10-C24)	500	433		mg/Kg		87	70 - 125
Motor Oil (>C24-C36)	500	437		mg/Kg		87	70 - 129
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
o-Terphenyl	78		50 - 150				

Lab Sample ID: LCSD 580-433065/3-A

Matrix: Solid

Analysis Batch: 433444

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 433065

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	500	451		mg/Kg		90	70 - 125	4	16
Motor Oil (>C24-C36)	500	452		mg/Kg		90	70 - 129	3	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
o-Terphenyl	78		50 - 150						

Lab Sample ID: MB 580-433209/1-A

Matrix: Water

Analysis Batch: 433240

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 433209

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.11	0.065	mg/L		07/31/23 09:03	08/01/23 00:29	1
Motor Oil (>C24-C36)	ND		0.35	0.096	mg/L		07/31/23 09:03	08/01/23 00:29	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac			
o-Terphenyl	78		50 - 150	07/31/23 09:03	08/01/23 00:29	1			

Lab Sample ID: LCS 580-433209/2-A

Matrix: Water

Analysis Batch: 433240

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 433209

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
#2 Diesel (C10-C24)	4.00	2.99		mg/L		75	50 - 120
Motor Oil (>C24-C36)	4.00	3.27		mg/L		82	64 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
o-Terphenyl	81		50 - 150				

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 580-433209/3-A

Matrix: Water

Analysis Batch: 433240

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 433209

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	4.00	3.01		mg/L		75	50 - 120	0	26
Motor Oil (>C24-C36)	4.00	3.38		mg/L		85	64 - 120	3	24
Surrogate	%Recovery	LCSD Qualifier	Limits						
<i>o</i> -Terphenyl	84		50 - 150						

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Lab Sample ID: MB 580-433209/1-B

Matrix: Water

Analysis Batch: 433240

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 433209

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.11	0.065	mg/L		07/31/23 09:03	07/31/23 21:36	1
Motor Oil (>C24-C36)	ND		0.35	0.096	mg/L		07/31/23 09:03	07/31/23 21:36	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
<i>o</i> -Terphenyl	82		50 - 150			07/31/23 09:03	07/31/23 21:36	1	

Lab Sample ID: LCS 580-433209/2-B

Matrix: Water

Analysis Batch: 433240

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 433209

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
#2 Diesel (C10-C24)			4.00	3.27		mg/L		82	50 - 120		
Motor Oil (>C24-C36)			4.00	3.72		mg/L		93	64 - 120		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
<i>o</i> -Terphenyl	85		50 - 150								

Lab Sample ID: LCSD 580-433209/3-B

Matrix: Water

Analysis Batch: 433240

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 433209

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	4.00	3.38		mg/L		84	50 - 120	3	26
Motor Oil (>C24-C36)	4.00	3.77		mg/L		94	64 - 120	2	24
Surrogate	%Recovery	LCSD Qualifier	Limits						
<i>o</i> -Terphenyl	92		50 - 150						

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-694446/1-A

Matrix: Solid

Analysis Batch: 694924

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 694446

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		1.0	0.043	pg/g		07/28/23 06:32	07/29/23 14:03	1
2,3,7,8-TCDF	ND		1.0	0.022	pg/g		07/28/23 06:32	07/29/23 14:03	1
1,2,3,7,8-PeCDD	ND		5.0	0.038	pg/g		07/28/23 06:32	07/29/23 14:03	1
1,2,3,7,8-PeCDF	ND		5.0	0.029	pg/g		07/28/23 06:32	07/29/23 14:03	1
2,3,4,7,8-PeCDF	ND		5.0	0.027	pg/g		07/28/23 06:32	07/29/23 14:03	1
1,2,3,4,7,8-HxCDD	0.234	J	5.0	0.041	pg/g		07/28/23 06:32	07/29/23 14:03	1
1,2,3,6,7,8-HxCDD	0.0765	J	5.0	0.049	pg/g		07/28/23 06:32	07/29/23 14:03	1
1,2,3,7,8,9-HxCDD	0.0747	J q	5.0	0.042	pg/g		07/28/23 06:32	07/29/23 14:03	1
1,2,3,4,7,8-HxCDF	0.0562	J q	5.0	0.022	pg/g		07/28/23 06:32	07/29/23 14:03	1
1,2,3,6,7,8-HxCDF	0.0715	J	5.0	0.024	pg/g		07/28/23 06:32	07/29/23 14:03	1
1,2,3,7,8,9-HxCDF	0.114	J	5.0	0.023	pg/g		07/28/23 06:32	07/29/23 14:03	1
2,3,4,6,7,8-HxCDF	0.0674	J	5.0	0.022	pg/g		07/28/23 06:32	07/29/23 14:03	1
1,2,3,4,6,7,8-HpCDD	0.273	J	5.0	0.022	pg/g		07/28/23 06:32	07/29/23 14:03	1
1,2,3,4,6,7,8-HpCDF	0.224	J	5.0	0.039	pg/g		07/28/23 06:32	07/29/23 14:03	1
1,2,3,4,7,8,9-HpCDF	0.0978	J q	5.0	0.035	pg/g		07/28/23 06:32	07/29/23 14:03	1
OCDD	1.19	J	10	0.052	pg/g		07/28/23 06:32	07/29/23 14:03	1
OCDF	0.564	J	10	0.035	pg/g		07/28/23 06:32	07/29/23 14:03	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	70		40 - 135	07/28/23 06:32	07/29/23 14:03	1
13C-2,3,7,8-TCDF	71		40 - 135	07/28/23 06:32	07/29/23 14:03	1
13C-1,2,3,7,8-PeCDD	71		40 - 135	07/28/23 06:32	07/29/23 14:03	1
13C-1,2,3,7,8-PeCDF	72		40 - 135	07/28/23 06:32	07/29/23 14:03	1
13C-2,3,4,7,8-PeCDF	82		40 - 135	07/28/23 06:32	07/29/23 14:03	1
13C-1,2,3,4,7,8-HxCDD	86		40 - 135	07/28/23 06:32	07/29/23 14:03	1
13C-1,2,3,6,7,8-HxCDD	68		40 - 135	07/28/23 06:32	07/29/23 14:03	1
13C-1,2,3,4,7,8-HxCDF	88		40 - 135	07/28/23 06:32	07/29/23 14:03	1
13C-2,3,4,6,7,8-HxCDF	78		40 - 135	07/28/23 06:32	07/29/23 14:03	1
13C-1,2,3,6,7,8-HxCDF	75		40 - 135	07/28/23 06:32	07/29/23 14:03	1
13C-1,2,3,7,8,9-HxCDF	80		40 - 135	07/28/23 06:32	07/29/23 14:03	1
13C-1,2,3,4,6,7,8-HpCDD	73		40 - 135	07/28/23 06:32	07/29/23 14:03	1
13C-1,2,3,4,6,7,8-HpCDF	69		40 - 135	07/28/23 06:32	07/29/23 14:03	1
13C-1,2,3,4,7,8,9-HpCDF	87		40 - 135	07/28/23 06:32	07/29/23 14:03	1
13C-OCDD	62		40 - 135	07/28/23 06:32	07/29/23 14:03	1
13C-OCDF	69		40 - 135	07/28/23 06:32	07/29/23 14:03	1

Lab Sample ID: LCS 320-694446/2-A

Matrix: Solid

Analysis Batch: 694924

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 694446

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,3,7,8-TCDD	20.0	20.3		pg/g		101	73 - 141
2,3,7,8-TCDF	20.0	19.7		pg/g		98	71 - 153
1,2,3,7,8-PeCDD	100	94.0		pg/g		94	77 - 126
1,2,3,7,8-PeCDF	100	92.8		pg/g		93	72 - 128
2,3,4,7,8-PeCDF	100	80.3		pg/g		80	72 - 127
1,2,3,4,7,8-HxCDD	100	82.9		pg/g		83	73 - 126
1,2,3,6,7,8-HxCDD	100	94.2		pg/g		94	76 - 142
1,2,3,7,8,9-HxCDD	100	88.6		pg/g		89	70 - 136

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-694446/2-A

Matrix: Solid

Analysis Batch: 694924

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 694446

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3,4,7,8-HxCDF	100	81.3		pg/g		81	73 - 127
1,2,3,6,7,8-HxCDF	100	91.7		pg/g		92	77 - 126
1,2,3,7,8,9-HxCDF	100	91.3		pg/g		91	77 - 125
2,3,4,6,7,8-HxCDF	100	90.4		pg/g		90	77 - 126
1,2,3,4,6,7,8-HpCDD	100	91.6		pg/g		92	79 - 121
1,2,3,4,6,7,8-HpCDF	100	95.9		pg/g		96	78 - 138
1,2,3,4,7,8,9-HpCDF	100	79.5		pg/g		79	76 - 123
OCDD	200	192		pg/g		96	76 - 136
OCDF	200	185		pg/g		92	75 - 130

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C-2,3,7,8-TCDD	70		40 - 135
13C-2,3,7,8-TCDF	71		40 - 135
13C-1,2,3,7,8-PeCDD	71		40 - 135
13C-1,2,3,7,8-PeCDF	72		40 - 135
13C-2,3,4,7,8-PeCDF	82		40 - 135
13C-1,2,3,4,7,8-HxCDD	86		40 - 135
13C-1,2,3,6,7,8-HxCDD	69		40 - 135
13C-1,2,3,4,7,8-HxCDF	88		40 - 135
13C-2,3,4,6,7,8-HxCDF	77		40 - 135
13C-1,2,3,6,7,8-HxCDF	75		40 - 135
13C-1,2,3,7,8,9-HxCDF	78		40 - 135
13C-1,2,3,4,6,7,8-HpCDD	72		40 - 135
13C-1,2,3,4,6,7,8-HpCDF	68		40 - 135
13C-1,2,3,4,7,8,9-HpCDF	85		40 - 135
13C-OCDD	60		40 - 135
13C-OCDF	68		40 - 135

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 580-433255/26

Matrix: Water

Analysis Batch: 433255

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50	0.20	ng/L			07/28/23 14:44	1

Lab Sample ID: MB 580-433255/27

Matrix: Water

Analysis Batch: 433255

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50	0.20	ng/L			07/28/23 14:49	1

Lab Sample ID: MB 580-433255/28

Matrix: Water

Analysis Batch: 433255

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50	0.20	ng/L			07/28/23 14:53	1

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 580-433255/29
Matrix: Water
Analysis Batch: 433255

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50	0.20	ng/L			07/28/23 14:57	1

Lab Sample ID: MB 580-433255/30
Matrix: Water
Analysis Batch: 433255

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50	0.20	ng/L			07/28/23 15:01	1

Lab Sample ID: MB 580-433255/31
Matrix: Water
Analysis Batch: 433255

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50	0.20	ng/L			07/28/23 15:05	1

Lab Sample ID: LCS 580-433255/37
Matrix: Water
Analysis Batch: 433255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.80		ng/L		96	77 - 123

Lab Sample ID: LCS 580-433255/39
Matrix: Water
Analysis Batch: 433255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.84		ng/L		97	77 - 123

Lab Sample ID: LCSD 580-433255/38
Matrix: Water
Analysis Batch: 433255

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.77		ng/L		95	77 - 123	1	24

Lab Sample ID: LCSD 580-433255/40
Matrix: Water
Analysis Batch: 433255

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.73		ng/L		95	77 - 123	2	24

QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 580-433677/1-A

Matrix: Water

Analysis Batch: 433927

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 433677

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.020	0.0080	ug/L		08/04/23 11:57	08/05/23 03:37	1
Arsenic	0.0226	J	0.20	0.020	ug/L		08/04/23 11:57	08/05/23 03:37	1
Beryllium	ND		0.060	0.024	ug/L		08/04/23 11:57	08/05/23 03:37	1
Cadmium	ND		0.030	0.018	ug/L		08/04/23 11:57	08/05/23 03:37	1
Chromium	ND		0.50	0.21	ug/L		08/04/23 11:57	08/05/23 03:37	1
Copper	ND		0.50	0.40	ug/L		08/04/23 11:57	08/05/23 03:37	1
Nickel	ND		0.50	0.23	ug/L		08/04/23 11:57	08/05/23 03:37	1
Lead	ND		0.060	0.027	ug/L		08/04/23 11:57	08/05/23 03:37	1
Antimony	ND		0.10	0.035	ug/L		08/04/23 11:57	08/05/23 03:37	1
Selenium	0.203	J	0.30	0.050	ug/L		08/04/23 11:57	08/05/23 03:37	1
Thallium	ND		0.010	0.0020	ug/L		08/04/23 11:57	08/05/23 03:37	1
Zinc	ND		1.0	0.82	ug/L		08/04/23 11:57	08/05/23 03:37	1

Lab Sample ID: MB 580-433677/2-A

Matrix: Water

Analysis Batch: 433927

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 433677

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.020	0.0080	ug/L		08/04/23 11:57	08/05/23 03:41	1
Arsenic	ND		0.20	0.020	ug/L		08/04/23 11:57	08/05/23 03:41	1
Beryllium	ND		0.060	0.024	ug/L		08/04/23 11:57	08/05/23 03:41	1
Cadmium	ND		0.030	0.018	ug/L		08/04/23 11:57	08/05/23 03:41	1
Chromium	ND		0.50	0.21	ug/L		08/04/23 11:57	08/05/23 03:41	1
Copper	ND		0.50	0.40	ug/L		08/04/23 11:57	08/05/23 03:41	1
Nickel	ND		0.50	0.23	ug/L		08/04/23 11:57	08/05/23 03:41	1
Lead	ND		0.060	0.027	ug/L		08/04/23 11:57	08/05/23 03:41	1
Antimony	ND		0.10	0.035	ug/L		08/04/23 11:57	08/05/23 03:41	1
Selenium	ND		0.30	0.050	ug/L		08/04/23 11:57	08/05/23 03:41	1
Thallium	ND		0.010	0.0020	ug/L		08/04/23 11:57	08/05/23 03:41	1
Zinc	ND		1.0	0.82	ug/L		08/04/23 11:57	08/05/23 03:41	1

Lab Sample ID: LCS 580-433677/3-A

Matrix: Water

Analysis Batch: 433927

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 433677

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	10.0	10.4		ug/L		104	85 - 115
Arsenic	50.0	52.0		ug/L		104	85 - 115
Beryllium	10.0	9.69		ug/L		97	85 - 115
Cadmium	10.0	10.3		ug/L		103	85 - 115
Chromium	50.0	50.9		ug/L		102	85 - 115
Copper	50.0	54.2		ug/L		108	85 - 115
Nickel	50.0	52.8		ug/L		106	85 - 115
Lead	50.0	50.8		ug/L		102	85 - 115
Antimony	10.0	10.5		ug/L		105	85 - 115
Selenium	50.0	51.2		ug/L		102	85 - 115
Thallium	10.0	10.1		ug/L		101	85 - 115
Zinc	50.0	52.5		ug/L		105	85 - 115

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: 1638 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-433677/4-A

Matrix: Water

Analysis Batch: 433927

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 433677

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	10.0	10.2		ug/L		102	85 - 115	2	20
Arsenic	50.0	51.8		ug/L		104	85 - 115	0	20
Beryllium	10.0	9.06		ug/L		91	85 - 115	7	20
Cadmium	10.0	10.6		ug/L		106	85 - 115	2	20
Chromium	50.0	51.4		ug/L		103	85 - 115	1	20
Copper	50.0	53.5		ug/L		107	85 - 115	1	20
Nickel	50.0	53.2		ug/L		106	85 - 115	1	20
Lead	50.0	50.5		ug/L		101	85 - 115	1	20
Antimony	10.0	10.4		ug/L		104	85 - 115	1	20
Selenium	50.0	52.3		ug/L		105	85 - 115	2	20
Thallium	10.0	9.96		ug/L		100	85 - 115	1	20
Zinc	50.0	53.0		ug/L		106	85 - 115	1	20

Lab Sample ID: 580-129836-3 MS

Matrix: Water

Analysis Batch: 433927

Client Sample ID: P94-GW-97-230725

Prep Type: Dissolved

Prep Batch: 433677

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	ND		10.0	10.3		ug/L		103	70 - 130		
Arsenic	0.25	B	50.0	53.0		ug/L		105	70 - 130		
Beryllium	ND		10.0	10.9		ug/L		109	70 - 130		
Cadmium	ND		10.0	10.5		ug/L		105	70 - 130		
Chromium	0.21	J	50.0	51.3		ug/L		103	70 - 130		
Copper	ND		50.0	52.9		ug/L		106	70 - 130		
Nickel	ND		50.0	51.1		ug/L		102	70 - 130		
Lead	0.028	J	50.0	50.9		ug/L		102	70 - 130		
Antimony	0.087	J	10.0	10.5		ug/L		104	70 - 130		
Selenium	0.080	J B	50.0	51.3		ug/L		102	70 - 130		
Thallium	0.0076	J	10.0	10.0		ug/L		100	70 - 130		
Zinc	2.2		50.0	53.3		ug/L		102	70 - 130		

Lab Sample ID: 580-129836-3 MSD

Matrix: Water

Analysis Batch: 433927

Client Sample ID: P94-GW-97-230725

Prep Type: Dissolved

Prep Batch: 433677

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	ND		10.0	10.2		ug/L		102	70 - 130	1	20
Arsenic	0.25	B	50.0	53.1		ug/L		106	70 - 130	0	20
Beryllium	ND		10.0	10.7		ug/L		107	70 - 130	2	20
Cadmium	ND		10.0	10.3		ug/L		103	70 - 130	2	20
Chromium	0.21	J	50.0	51.3		ug/L		103	70 - 130	0	20
Copper	ND		50.0	53.0		ug/L		106	70 - 130	0	20
Nickel	ND		50.0	50.9		ug/L		102	70 - 130	0	20
Lead	0.028	J	50.0	50.9		ug/L		102	70 - 130	0	20
Antimony	0.087	J	10.0	10.6		ug/L		105	70 - 130	1	20
Selenium	0.080	J B	50.0	51.8		ug/L		103	70 - 130	1	20
Thallium	0.0076	J	10.0	10.1		ug/L		101	70 - 130	0	20
Zinc	2.2		50.0	52.4		ug/L		100	70 - 130	2	20

Eurofins Seattle

QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 580-433516/24-A
Matrix: Solid
Analysis Batch: 433928

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 433516

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.0	0.26	mg/Kg		08/02/23 13:03	08/04/23 19:33	1
Arsenic	ND		3.0	0.25	mg/Kg		08/02/23 13:03	08/04/23 19:33	1
Beryllium	ND		1.0	0.070	mg/Kg		08/02/23 13:03	08/04/23 19:33	1
Cadmium	ND		1.0	0.049	mg/Kg		08/02/23 13:03	08/04/23 19:33	1
Chromium	ND		1.3	0.22	mg/Kg		08/02/23 13:03	08/04/23 19:33	1
Copper	ND		2.5	0.40	mg/Kg		08/02/23 13:03	08/04/23 19:33	1
Lead	ND		1.5	0.22	mg/Kg		08/02/23 13:03	08/04/23 19:33	1
Nickel	ND		1.0	0.10	mg/Kg		08/02/23 13:03	08/04/23 19:33	1
Selenium	ND	^+	5.0	0.40	mg/Kg		08/02/23 13:03	08/04/23 19:33	1
Silver	ND		2.5	0.56	mg/Kg		08/02/23 13:03	08/04/23 19:33	1
Zinc	ND		4.0	0.96	mg/Kg		08/02/23 13:03	08/04/23 19:33	1

Lab Sample ID: MB 580-433516/24-A
Matrix: Solid
Analysis Batch: 434036

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 433516

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.0	0.26	mg/Kg		08/02/23 13:03	08/07/23 18:03	1
Arsenic	ND		3.0	0.25	mg/Kg		08/02/23 13:03	08/07/23 18:03	1
Beryllium	ND		1.0	0.070	mg/Kg		08/02/23 13:03	08/07/23 18:03	1
Cadmium	ND		1.0	0.049	mg/Kg		08/02/23 13:03	08/07/23 18:03	1
Chromium	ND		1.3	0.22	mg/Kg		08/02/23 13:03	08/07/23 18:03	1
Copper	ND		2.5	0.40	mg/Kg		08/02/23 13:03	08/07/23 18:03	1
Lead	ND		1.5	0.22	mg/Kg		08/02/23 13:03	08/07/23 18:03	1
Nickel	ND		1.0	0.10	mg/Kg		08/02/23 13:03	08/07/23 18:03	1
Selenium	ND		5.0	0.40	mg/Kg		08/02/23 13:03	08/07/23 18:03	1
Silver	ND		2.5	0.56	mg/Kg		08/02/23 13:03	08/07/23 18:03	1
Zinc	ND		4.0	0.96	mg/Kg		08/02/23 13:03	08/07/23 18:03	1

Lab Sample ID: LCS 580-433516/25-A
Matrix: Solid
Analysis Batch: 433928

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 433516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	53.9		mg/Kg		108	80 - 120
Arsenic	50.0	57.6		mg/Kg		115	80 - 120
Beryllium	50.0	55.0		mg/Kg		110	80 - 120
Cadmium	50.0	56.6		mg/Kg		113	80 - 120
Chromium	50.0	60.2		mg/Kg		120	80 - 120
Copper	50.0	54.7		mg/Kg		109	80 - 120
Lead	50.0	56.0		mg/Kg		112	80 - 120
Nickel	50.0	57.1		mg/Kg		114	80 - 120
Selenium	50.0	59.1	^+	mg/Kg		118	80 - 120
Silver	50.0	54.0		mg/Kg		108	80 - 120
Zinc	50.0	56.8		mg/Kg		114	80 - 120

Eurofins Seattle

QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 580-433516/25-A

Matrix: Solid

Analysis Batch: 434036

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 433516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	49.4		mg/Kg		99	80 - 120
Arsenic	50.0	50.1		mg/Kg		100	80 - 120
Beryllium	50.0	50.8		mg/Kg		102	80 - 120
Cadmium	50.0	53.2		mg/Kg		106	80 - 120
Chromium	50.0	52.6		mg/Kg		105	80 - 120
Copper	50.0	50.3		mg/Kg		101	80 - 120
Lead	50.0	51.7		mg/Kg		103	80 - 120
Nickel	50.0	52.5		mg/Kg		105	80 - 120
Selenium	50.0	52.5		mg/Kg		105	80 - 120
Silver	50.0	50.6		mg/Kg		101	80 - 120
Zinc	50.0	54.9		mg/Kg		110	80 - 120

Lab Sample ID: LCSD 580-433516/26-A

Matrix: Solid

Analysis Batch: 433928

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 433516

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	50.0	54.8		mg/Kg		110	80 - 120	2	20
Arsenic	50.0	58.2		mg/Kg		116	80 - 120	1	20
Beryllium	50.0	55.5		mg/Kg		111	80 - 120	1	20
Cadmium	50.0	57.0		mg/Kg		114	80 - 120	1	20
Chromium	50.0	60.2		mg/Kg		120	80 - 120	0	20
Copper	50.0	54.8		mg/Kg		110	80 - 120	0	20
Lead	50.0	56.6		mg/Kg		113	80 - 120	1	20
Nickel	50.0	57.4		mg/Kg		115	80 - 120	1	20
Selenium	50.0	59.7	^+	mg/Kg		119	80 - 120	1	20
Silver	50.0	55.0		mg/Kg		110	80 - 120	2	20
Zinc	50.0	57.7		mg/Kg		115	80 - 120	1	20

Lab Sample ID: LCSD 580-433516/26-A

Matrix: Solid

Analysis Batch: 434036

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 433516

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	50.0	50.7		mg/Kg		101	80 - 120	2	20
Arsenic	50.0	51.4		mg/Kg		103	80 - 120	3	20
Beryllium	50.0	52.1		mg/Kg		104	80 - 120	2	20
Cadmium	50.0	54.5		mg/Kg		109	80 - 120	3	20
Chromium	50.0	53.8		mg/Kg		108	80 - 120	2	20
Copper	50.0	52.0		mg/Kg		104	80 - 120	3	20
Lead	50.0	53.1		mg/Kg		106	80 - 120	3	20
Nickel	50.0	53.7		mg/Kg		107	80 - 120	2	20
Selenium	50.0	53.9		mg/Kg		108	80 - 120	3	20
Silver	50.0	51.9		mg/Kg		104	80 - 120	3	20
Zinc	50.0	56.7		mg/Kg		113	80 - 120	3	20

Eurofins Seattle

QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-433960/22-A
Matrix: Solid
Analysis Batch: 434131

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 433960

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.030	0.0090	mg/Kg		08/07/23 13:56	08/08/23 15:17	1

Lab Sample ID: LCS 580-433960/23-A
Matrix: Solid
Analysis Batch: 434131

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 433960

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.175		mg/Kg		105	80 - 120

Lab Sample ID: LCSD 580-433960/24-A
Matrix: Solid
Analysis Batch: 434131

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 433960

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.167	0.170		mg/Kg		102	80 - 120	3	20

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 580-432830/1
Matrix: Water
Analysis Batch: 432830

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		0.40	0.40	mg/L			07/27/23 05:35	1

Lab Sample ID: LCS 580-432830/2
Matrix: Water
Analysis Batch: 432830

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	500	600		mg/L		120	80 - 120

Lab Sample ID: 580-129836-3 DU
Matrix: Water
Analysis Batch: 432830

Client Sample ID: P94-GW-97-230725
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	21		19.0		mg/L		10	20

Lab Sample ID: MB 580-433131/1
Matrix: Water
Analysis Batch: 433131

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		0.40	0.40	mg/L			07/28/23 23:18	1

Eurofins Seattle

QC Sample Results

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 580-433131/2

Matrix: Water

Analysis Batch: 433131

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	500	466		mg/L		93	80 - 120

Lab Chronicle

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Client Sample ID: P94-GW-97-230725

Lab Sample ID: 580-129836-3

Date Collected: 07/25/23 09:30

Matrix: Water

Date Received: 07/25/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	432883	ITR	EET SEA	07/27/23 06:53
Total/NA	Analysis	NWTPH-Gx		1	433192	JBT	EET SEA	07/31/23 07:24
Total/NA	Prep	8011			433984	TOA	EET SEA	08/07/23 16:45
Total/NA	Analysis	8011		1	434381	KLW	EET SEA	08/11/23 14:49
Total/NA	Prep	3510C			433209	SL	EET SEA	07/31/23 09:03
Total/NA	Cleanup	3630C			433210	SL	EET SEA	07/31/23 09:10
Total/NA	Analysis	NWTPH-Dx		1	433240	TGO	EET SEA	08/01/23 00:10
Total/NA	Prep	3510C			433209	SL	EET SEA	07/31/23 09:03
Total/NA	Analysis	NWTPH-Dx		1	433240	TGO	EET SEA	08/01/23 03:58
Dissolved	Analysis	1631E		1	433255	CL	EET SEA	07/28/23 21:00
Total/NA	Analysis	1631E		1	433255	CL	EET SEA	07/28/23 20:43
Dissolved	Prep	1638			433677	V1R	EET SEA	08/04/23 11:57
Dissolved	Analysis	1638		1	433927	V1R	EET SEA	08/05/23 05:01
Total Recoverable	Prep	1638			433677	V1R	EET SEA	08/04/23 11:57
Total Recoverable	Analysis	1638		1	433927	V1R	EET SEA	08/05/23 07:29
Total/NA	Analysis	SM 2540D		1	432830	CSS	EET SEA	07/27/23 05:37

Client Sample ID: P94-SO-92-0-1-230725

Lab Sample ID: 580-129836-4

Date Collected: 07/25/23 10:15

Matrix: Solid

Date Received: 07/25/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	433225	MJ	EET SEA	07/31/23 09:28

Client Sample ID: P94-SO-92-0-1-230725

Lab Sample ID: 580-129836-4

Date Collected: 07/25/23 10:15

Matrix: Solid

Date Received: 07/25/23 15:05

Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			349839	UQTR	EET CAL 4	07/28/23 08:34
Total/NA	Analysis	8260C		1	350508	AJ4K	EET CAL 4	08/01/23 02:08
Total/NA	Prep	5035			433352	ASJ	EET SEA	08/01/23 09:59
Total/NA	Analysis	NWTPH-Gx		1	433380	K1K	EET SEA	08/01/23 20:56
Total/NA	Prep	3546			433002	E1W	EET SEA	07/27/23 16:38
Total/NA	Analysis	8270E		10	435897	K1K	EET SEA	08/27/23 02:55
Total/NA	Prep	3546			433353	TOA	EET SEA	08/01/23 10:10
Total/NA	Analysis	8082A		1	434774	VLF	EET SEA	08/16/23 02:32
Total/NA	Prep	3546			433065	E1W	EET SEA	07/28/23 12:00
Total/NA	Analysis	NWTPH-Dx		10	433444	TGO	EET SEA	08/02/23 12:52
Total/NA	Prep	8290			694446	FC	EET SAC	07/28/23 06:32
Total/NA	Analysis	8290A		1	694880	CB	EET SAC	07/29/23 20:34
Total/NA	Prep	3050B			433516	DLV	EET SEA	08/02/23 13:03
Total/NA	Analysis	6010D		1	433928	JLS	EET SEA	08/04/23 20:09

Eurofins Seattle

Lab Chronicle

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Client Sample ID: P94-SO-92-0-1-230725

Lab Sample ID: 580-129836-4

Date Collected: 07/25/23 10:15

Matrix: Solid

Date Received: 07/25/23 15:05

Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			433516	DLV	EET SEA	08/02/23 13:03
Total/NA	Analysis	6010D		1	434036	JLS	EET SEA	08/07/23 18:42
Total/NA	Prep	7471A			433960	AUA	EET SEA	08/07/23 13:45
Total/NA	Analysis	7471A		1	434131	JLS	EET SEA	08/08/23 16:11

Client Sample ID: P94-SO-92-10-12-230725

Lab Sample ID: 580-129836-5

Date Collected: 07/25/23 10:40

Matrix: Solid

Date Received: 07/25/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	432894	VLF	EET SEA	07/27/23 11:03

Client Sample ID: P94-SO-92-10-12-230725

Lab Sample ID: 580-129836-5

Date Collected: 07/25/23 10:40

Matrix: Solid

Date Received: 07/25/23 15:05

Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			349839	UQTR	EET CAL 4	07/28/23 08:34
Total/NA	Analysis	8260C		1	350508	AJ4K	EET CAL 4	08/01/23 02:29
Total/NA	Prep	5035			433010	JBT	EET SEA	07/31/23 14:15
Total/NA	Analysis	NWTPH-Gx		1	433291	K1K	EET SEA	07/31/23 21:42
Total/NA	Prep	3546			433002	E1W	EET SEA	07/27/23 16:40
Total/NA	Analysis	8270E		1	433295	SR	EET SEA	07/31/23 22:09
Total/NA	Prep	3546			433353	TOA	EET SEA	08/01/23 10:10
Total/NA	Analysis	8082A		1	434774	VLF	EET SEA	08/16/23 02:49
Total/NA	Prep	3546			433065	E1W	EET SEA	07/28/23 12:00
Total/NA	Analysis	NWTPH-Dx		1	433444	TGO	EET SEA	08/02/23 13:11
Total/NA	Prep	8290			694446	FC	EET SAC	07/28/23 06:32
Total/NA	Analysis	8290A		1	694880	CB	EET SAC	07/29/23 21:22
Total/NA	Prep	3050B			433516	DLV	EET SEA	08/02/23 13:03
Total/NA	Analysis	6010D		1	433928	JLS	EET SEA	08/04/23 20:12
Total/NA	Prep	3050B			433516	DLV	EET SEA	08/02/23 13:03
Total/NA	Analysis	6010D		1	434036	JLS	EET SEA	08/07/23 18:45
Total/NA	Prep	7471A			433960	AUA	EET SEA	08/07/23 13:45
Total/NA	Analysis	7471A		1	434131	JLS	EET SEA	08/08/23 16:13

Client Sample ID: TB-230725

Lab Sample ID: 580-129836-7

Date Collected: 07/25/23 07:00

Matrix: Water

Date Received: 07/25/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	432883	ITR	EET SEA	07/27/23 05:41
Total/NA	Analysis	NWTPH-Gx		1	433192	JBT	EET SEA	07/31/23 04:33
Total/NA	Prep	8011			433984	TOA	EET SEA	08/07/23 16:45
Total/NA	Analysis	8011		1	434381	KLW	EET SEA	08/11/23 15:05

Eurofins Seattle

Lab Chronicle

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Client Sample ID: P94-GW-92-230725

Lab Sample ID: 580-129836-11

Date Collected: 07/25/23 13:30

Matrix: Water

Date Received: 07/25/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	432883	ITR	EET SEA	07/27/23 07:17
Total/NA	Analysis	NWTPH-Gx		1	433192	JBT	EET SEA	07/31/23 07:48
Total/NA	Prep	8011			433984	TOA	EET SEA	08/07/23 16:45
Total/NA	Analysis	8011		1	434381	KLW	EET SEA	08/11/23 14:33
Total/NA	Prep	3510C			433209	SL	EET SEA	07/31/23 09:03
Total/NA	Cleanup	3630C			433210	SL	EET SEA	07/31/23 09:10
Total/NA	Analysis	NWTPH-Dx		1	433240	TGO	EET SEA	07/31/23 23:51
Total/NA	Prep	3510C			433209	SL	EET SEA	07/31/23 09:03
Total/NA	Analysis	NWTPH-Dx		1	433240	TGO	EET SEA	08/01/23 03:39
Dissolved	Analysis	1631E		1	433255	CL	EET SEA	07/28/23 19:41
Total/NA	Analysis	1631E		1	433255	CL	EET SEA	07/28/23 19:36
Dissolved	Prep	1638			433677	V1R	EET SEA	08/04/23 11:57
Dissolved	Analysis	1638		1	433927	V1R	EET SEA	08/05/23 07:18
Total Recoverable	Prep	1638			433677	V1R	EET SEA	08/04/23 11:57
Total Recoverable	Analysis	1638		1	433927	V1R	EET SEA	08/05/23 07:33
Total/NA	Analysis	SM 2540D		1	433131	CSS	EET SEA	07/28/23 23:18

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Laboratory: Eurofins Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8011	8011	Water	1,2-Dibromo-3-Chloropropane
8011	8011	Water	Ethylene Dibromide
8260D		Water	1,1,1,2-Tetrachloroethane
8260D		Water	1,1,1-Trichloroethane
8260D		Water	1,1,2,2-Tetrachloroethane
8260D		Water	1,1,2-Trichloroethane
8260D		Water	1,1-Dichloroethane
8260D		Water	1,1-Dichloroethene
8260D		Water	1,1-Dichloropropene
8260D		Water	1,2,3-Trichlorobenzene
8260D		Water	1,2,3-Trichloropropane
8260D		Water	1,2,4-Trichlorobenzene
8260D		Water	1,2,4-Trimethylbenzene
8260D		Water	1,2-Dibromo-3-Chloropropane
8260D		Water	1,2-Dichlorobenzene
8260D		Water	1,2-Dichloroethane
8260D		Water	1,2-Dichloropropane
8260D		Water	1,3,5-Trimethylbenzene
8260D		Water	1,3-Dichlorobenzene
8260D		Water	1,3-Dichloropropane
8260D		Water	1,4-Dichlorobenzene
8260D		Water	2,2-Dichloropropane
8260D		Water	2-Chlorotoluene
8260D		Water	4-Chlorotoluene
8260D		Water	4-Isopropyltoluene
8260D		Water	Benzene
8260D		Water	Bromobenzene
8260D		Water	Bromoform
8260D		Water	Bromomethane
8260D		Water	Carbon tetrachloride
8260D		Water	Chlorobenzene
8260D		Water	Chlorobromomethane
8260D		Water	Chlorodibromomethane
8260D		Water	Chloroethane
8260D		Water	Chloroform
8260D		Water	Chloromethane
8260D		Water	cis-1,2-Dichloroethene
8260D		Water	cis-1,3-Dichloropropene
8260D		Water	Dibromomethane
8260D		Water	Dichlorobromomethane
8260D		Water	Dichlorodifluoromethane
8260D		Water	Ethylbenzene
8260D		Water	Ethylene Dibromide

Eurofins Seattle

Accreditation/Certification Summary

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Laboratory: Eurofins Seattle (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8260D		Water	Hexachlorobutadiene
8260D		Water	Isopropylbenzene
8260D		Water	Methyl tert-butyl ether
8260D		Water	Methylene Chloride
8260D		Water	m-Xylene & p-Xylene
8260D		Water	Naphthalene
8260D		Water	n-Butylbenzene
8260D		Water	N-Propylbenzene
8260D		Water	o-Xylene
8260D		Water	sec-Butylbenzene
8260D		Water	Styrene
8260D		Water	tert-Butylbenzene
8260D		Water	Tetrachloroethene
8260D		Water	Toluene
8260D		Water	trans-1,2-Dichloroethene
8260D		Water	trans-1,3-Dichloropropene
8260D		Water	Trichloroethene
8260D		Water	Trichlorofluoromethane
8260D		Water	Vinyl chloride
NWTPH-Dx	3510C	Water	#2 Diesel (C10-C24)
NWTPH-Gx		Water	Gasoline
SM 2540D		Water	Total Suspended Solids

Laboratory: Eurofins Calscience

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C916-18	10-11-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8260C	5035	Solid	4-Isopropyltoluene

Laboratory: Eurofins Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C581	05-05-24

Sample Summary

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-129836-3	P94-GW-97-230725	Water	07/25/23 09:30	07/25/23 15:05
580-129836-4	P94-SO-92-0-1-230725	Solid	07/25/23 10:15	07/25/23 15:05
580-129836-5	P94-SO-92-10-12-230725	Solid	07/25/23 10:40	07/25/23 15:05
580-129836-7	TB-230725	Water	07/25/23 07:00	07/25/23 15:05
580-129836-11	P94-GW-92-230725	Water	07/25/23 13:30	07/25/23 15:05

Date: 07/25/23
 Laboratory: Eurofins Northwest
 Project Name: Wheeler Osgood ESA
 Project Number: 230092-03.01
 Project Contact: DeLaney Peterson
 Phone Number: 360.715.2707
 Shipment Method: Delivery

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	VOCs	Dioxin/Furans	TS (soil)/TSS (groundwater)	Total Mercury	Dissolved Mercury	TPH-dx	TPH-Gx	SVOCs	PCB Aroclors	Total Metals	Dissolved Metals	Archive	Comments
1	PQ4-SO-Q4-0-1-230725	7/25/23 830	SO	1												X	
2	PQ4-SO-Q4-9-10-230725	7/25/23 840	SO	1												X	
3	PQ4-SO-Q4-9-10-230725																
4	PQ4-GW-Q7-230725	07/25/23 930	WG	15	X		X	X	X	X				X			
5	PQ4-SO-Q2-0-1-230725	1015	SO	8	X	X	X	X	X	X	X	X	X	X		X	
6	PQ4-SO-Q2-10-12-230725	1040	SO	8	X	X	X	X	X	X	X	X	X	X		X	
7	PQ4-SO-Q2-13-14-230725	1045	SO	1												X	
8	TB-230725	0700	H2O	4	X						X						trip blank
9	PQ4-SO-Q3-6-2-230725	1300	SO	1												X	
10	PQ4-SO-Q3-4-5-230725	1310	SO	1												X	
11	PQ4-SO-Q3-10-12-230725	1315	SO	1												X	
12	PQ4-GW-Q2-230725	1330	WG	15	X		X	X	X	X				X			
13																	
14																	



580-129836 Chain of Custody

Email sample confirmation report to labdata@anchorage.com
 all dissolved metals + Hg
 samples field filtered

Additional notes/comments: Questions to dpeterson@anchorage.com
 Run water TPH-Dx w/ + w/o silica gel cleanup
 Run water VOC for methods 8011 and 8210

Relinquished By:	Company: Anchor OEA LLC.	Received By:	Company: Eurofins
Signature/Printed Name: <u>Kim Tran</u>	Date/Time: <u>07/25/2023</u>	Signature/Printed Name: <u>DeLaney Peterson</u>	Date/Time: <u>7/25/23 1505</u>
Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name:	Date/Time:	Signature/Printed Name:	Date/Time:



580-129836 Waybill



Environment Testing
D
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5 10:30
678
13

ORIGIN ID: TCMA (253) 922-
SAMPLE CONTROL
EUROFINS ENVIRONMENTAL TESTI
5755 8TH ST E
FIFE, WA 98424
UNITED STATES US

DATE: 26JUL23
: 1.00 LB
89746/CAFE3709

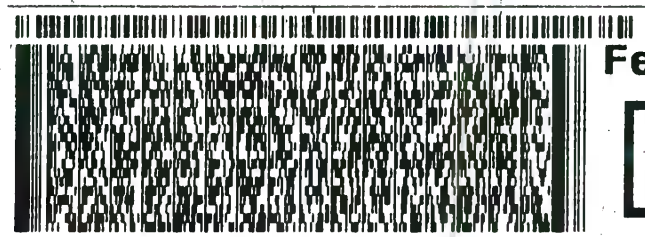
ENDER

TO SHIPPING/RECEIVING
EUROFINS ENVIRONMENT TESTING SOUTHW
2841 DOW AVENUE, SUITE 100

TUSTIN CA 92780

(714) 896-6494
PO: YES

REF: S580-57771



Environment Testing
TestAmerica

2182510

TRK# 6545 7735 6631
0201

92 DTHA

THU - 27 JUL 11
PRIORITY OVERNIGHT

9
CA-US

SIGNATURE
DATE
Custody Seal

Ver. 06/08/2021

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: Anchor QEA LLC

Job Number: 580-129836-1

Login Number: 129836

List Source: Eurofins Seattle

List Number: 1

Creator: Prigge, Madison

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Anchor QEA LLC

Job Number: 580-129836-1

Login Number: 129836

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 07/27/23 03:05 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	2182510
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Anchor QEA LLC

Job Number: 580-129836-1

Login Number: 129836

List Number: 3

Creator: Simmons, Jason C

List Source: Eurofins Sacramento

List Creation: 07/27/23 06:11 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	2182509
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Isotope Dilution Summary

Client: Anchor QEA LLC
Project/Site: Port of Tacoma - Wheeler Osgood

Job ID: 580-129836-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCDD (40-135)	TCDF (40-135)	PeCDD (40-135)	PeCDF (40-135)	PeCF (40-135)	HxCDD (40-135)	HxDD (40-135)	HxCDF (40-135)
580-129836-4	P94-SO-92-0-1-230725	61	62	58	61	62	62	52	72
580-129836-5	P94-SO-92-10-12-230725	69	70	72	73	81	82	65	89
LCS 320-694446/2-A	Lab Control Sample	70	71	71	72	82	86	69	88
MB 320-694446/1-A	Method Blank	70	71	71	72	82	86	68	88

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	13CHxCF (40-135)	HxDF (40-135)	HxCF (40-135)	HpCDD (40-135)	HpCDF (40-135)	HpCDF2 (40-135)	OCDD (40-135)	OCDF (40-135)
580-129836-4	P94-SO-92-0-1-230725	55	62	59	37 *5-	40	31 *5-	22 *5-	25 *5-
580-129836-5	P94-SO-92-10-12-230725	75	73	76	66	65	79	60	66
LCS 320-694446/2-A	Lab Control Sample	77	75	78	72	68	85	60	68
MB 320-694446/1-A	Method Blank	78	75	80	73	69	87	62	69

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF = 13C-1,2,3,7,8-PeCDF
PeCF = 13C-2,3,4,7,8-PeCDF
HxCDD = 13C-1,2,3,4,7,8-HxCDD
HxDD = 13C-1,2,3,6,7,8-HxCDD
HxCDF = 13C-1,2,3,4,7,8-HxCDF
13CHxCF = 13C-2,3,4,6,7,8-HxCDF
HxDF = 13C-1,2,3,6,7,8-HxCDF
HxCF = 13C-1,2,3,7,8,9-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF
OCDD = 13C-OCDD
OCDF = 13C-OCDF