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Manke Lumber Sumner ACQ Plant Soil Investigation Summary Report

16 March 2021

Prepared for

Manke Lumber

13702 Stewart Road SE Sumner, WA 98390

KJ Project No. 2096012*00

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Section 1: Introduction and Site Background

This report summarizes soil investigation activities at the Manke Lumber (Manke) Sumner Sawmill site located at 13702 Stewart Road SE in Sumner, Washington (Facility). The Facility abuts Stewart Road SE to the north and 16th Street SE to the south. The Facility is bordered by the White River on the east and a railroad right-of-way to the west (Figure 1). The Facility currently supports sawmill and wood treating operations. The Facility generates and stores dangerous waste [U.S. Environmental Protection Agency (EPA)/State ID Number WAD981764434] and is subject to regular compliance evaluation inspections (CEIs). The site is zoned Heavy Industrial by the City of Sumner (City of Sumner 2019).

On 23 April 2019, the Washington State Department of Ecology (Ecology) conducted a CEI at the Facility and noted several items of concern under Washington Administrative Code (WAC) 173-303 requiring immediate action (Ecology 2020a).

During the 23 April 2019 inspection, Ecology reported the workflow in the Alkaline Copper Quaternary (ACQ) Plant area to generally include the following features, shown on Figure 2:

- Lumber was loaded onto a tram system north of the drip pad.
- The tram system moved lumber south, into a pressure treating vessel located just north of the drip pad.
- The tram system moved lumber south, out of the pressure vessel and onto the drip pad.
- While on the drip pad, treated lumber was unloaded from the tram.
- The tram was transferred to the tram return system, to the west of the drip pad, and the tram returned to the loading area.

During the inspection, Ecology noted openings in the return tram where tires were installed to assist with tram return.

Manke reported to Ecology on 21 June 2019 that use of the return tram had ceased. Since June 2019, trams have been loaded and unloaded over the drip pad and are not returned via the tram return system.

On 8 July 2019, Ecology conducted a focused compliance inspection (FCI) at the Facility as a follow-up to the CEI (Ecology 2020b). Ecology collected three surface soil samples from surface soils west of the tram return system. These samples were analyzed for total Resource Conservation and Recovery Act (RCRA) 8 metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver), copper, nickel, and zinc. Ecology reported results received on 19 July 2019. Elevated concentrations of arsenic and chromium were noted in soil, and concentrations of barium, cadmium, lead, nickel, copper, and zinc were detected above their respective laboratory reporting limits. One sample was also analyzed for Toxicity Characteristic Leaching Procedure (TCLP) metals and concentrations were below RCRA hazardous waste criteria.



In a Notice To Comply dated 3 March 2020, Ecology required that Manke complete mitigation and control conditions outlined in WAC 173-303-145(3) and define the extent of metals present in surface and shallow subsurface soil. This letter also required that Manke work closely with Ecology throughout the process and provide Ecology with a proposal for the work for Ecology review and comment.

Manke, Kennedy Jenks, and Ecology discussed preliminary project scoping during a 15 July 2020 conference call following which, a Soil Investigation Work Plan (work plan; Kennedy Jenks 2020) was prepared for Manke to investigate soil conditions adjacent to the ACQ Plant. The work plan was submitted to Ecology on 25 August 2020 and approved by Ecology on 1 September 2020.

Field activities were conducted on 6 and 7 of October 2020 and included the collection of 50 soil samples from 17 boring locations. These samples were field screened using a portable Bruker S1 Titan portable handheld X-Ray Fluorescence (XRF) machine. Eleven of the soil samples were analyzed by Eurofins TestAmerica in Tacoma for RCRA 8 metals, copper, zinc, and TCLP metals. Based on the total metals results, seven samples collected from the bottom intervals of borings were additionally analyzed for TCLP metals.

Section 2: Soil Investigation

Kennedy Jenks conducted field sampling activities on 6 and 7 October 2020 to characterize the source, nature, and extent of metals present in surface and shallow subsurface soil near the ACQ Plant. The general investigation area was focused on the area west of the ACQ Plant tram area identified in Ecology's FCI. Locations of pertinent site features and approximate boring locations are depicted on Figure 2.

2.1 Utility Locate

Prior to subsurface investigation activities, a utility locate was conducted by Manke. The utility locate included a public notification (one-call), as well as review of Manke utility drawings and contracting with a private utility locating company to identify underground utilities in the area using ground penetrating radar (GPR). The utility locate identified several underground utilities below the bioswale area, to the east of the return tram. These utilities were reportedly installed by Manke and were approximately 2 feet below ground surface (bgs). At-grade utilities are also located in the area, including several steam pipes located between the stormwater bioswale (bioswale) and return tram (Figure 2). Due to the presence of underground utilities, Kennedy Jenks staff were advised by Manke that subsurface investigations should not go deeper than 1.5 feet bgs.

2.2 Sampling Locations

A total of 17 shallow soil borings were advanced in the area west of the ACQ Plant and tram rail system, as well as along the bioswale west of the facility as depicted on Figure 2. These borings were in focused in areas where historical releases of wood treatment chemicals may have occurred. Twelve of these locations were proposed in the work plan and were advanced in the general locations noted; additionally, five step-out borings were advanced to further delineate soil conditions within the area of interest. Specific sampling intervals are noted in Table 1; samples are identified with the boring name (e.g., B01) followed by the sample depth interval in inches (e.g., 0-6). Due to the presence of underground utilities west of the tram, soil samples were not collected below 1.5 feet bgs.

2.3 Sampling Methods

Surface and shallow subsurface soil samples were collected by Kennedy Jenks field staff in the vicinity of the ACQ Plant using a hand shovel and/or hand auger. Borings were advanced to a total depth of up to 1.5 feet bgs. Soils from each depth interval within each boring were placed directly into clean plastic bags using clean, disposable nitrile gloves, and homogenized in the bag; in general, depending on accessibility and recovery from each hole, soil intervals of between 3 and 6 inches were composited in one bag. These samples generally corresponded to sampling depths of 0 to 6 inches, 6 to 12 inches, and 12 to 18 inches.

Following bagging, soil recovered from borings were field screened using visual and olfactory methods, volatile organics by photoionization detector (PID), and metals (RCRA 8 metals plus copper, nickel, and zinc) using the XRF machine.



The XRF was calibrated each day using appropriate standards for RCRA 8 metals, copper, nickel, and zinc. XRF results were collected for field screening purposes to gain information about the extent of metals concentrations in soil. Following receipt of laboratory analytical results, field XRF were used to assess the correlation between laboratory analytical and field screening data. The results of this evaluation are presented in Section 3.3.

Samples were field screened using the XRF with a minimum thickness of 0.5 inch of soil beneath the XRF analysis window (e.g., the area that emits x-rays). In accordance with manufacturer's specifications, the XRF was not used for sample analysis while on top of metal-containing surfaces.

Following field screening, bagged samples were placed into laboratory-supplied containers and delivered under standard chain-of-custody to the Eurofins TestAmerica laboratory in Tacoma, Washington (TestAmerica). Five samples plus one field duplicate were analyzed for RCRA 8 metals plus copper, nickel, and zinc by EPA Method 6020, six samples were analyzed for total arsenic, copper, and chromium by EPA Method 6020, and seven samples were analyzed for TCLP metals (arsenic, copper, and chromium) by EPA Method 1311. The remainder of the samples were placed on hold at the analytical laboratory. The samples initially analyzed by the laboratory were determined in the field in conjunction with Manke and Ecology personnel.

Groundwater and surface water were not encountered in the borings and the soil was dry to moist.

Reusable sampling equipment was decontaminated between each sample location with a scrub brush, Simple Green solution, and a deionized water rinse.

2.4 Investigation-Derived Waste (IDW)

Soil from each location and decontamination water was placed into a 55-gallon drum supplied by Manke, and was reportedly handled by Manke as F035-listed dangerous waste (Ecology 2020b). Final storage and disposal of the IDW was handled by Manke.



Section 3: Results

This section describes field and analytical results from the field investigation completed on 6 and 7 October 2020. XRF and laboratory analytical results are tabulation in Table 1 and laboratory analytical reports are included in Appendix A. Field screening results for selected metals are shown on Figures 3, 5, and 6, and selected laboratory analytical results are shown on Figure 4. Sample results are described below.

3.1 Applicable Cleanup Levels

The property is an industrial property (zoned Heavy Industrial) with restricted access and Method C Industrial cleanup levels (CULs) are the applicable CULs for this site. The site meets the qualifications for industrial land use and establishment of Industrial Method C CULs laid out in WAC 173-340-745. Comparisons to Model Toxics Control Act (MTCA) Method A or B CULs is for informational purposes only as the site is utilized only for industrial land use.

3.2 XRF Soil Results

Based on XRF field screening, 13 out of 50 soil samples were estimated to contain concentrations of arsenic above 88 milligrams per kilogram (mg/kg), the MTCA Method C Industrial (Cancer) CUL for soil. No other metals were detected above MTCA Method C Industrial (Cancer or Non-Cancer) CULs. Concentrations of arsenic detected by XRF ranged from below the level of detection to 6,962 mg/kg, with an average concentration of 246 mg/kg and a median value of 49 mg/kg. Based on the field screening approach, several trends were identified:

- Total arsenic concentrations generally decreased with depth; the highest concentrations were detected in surface soil samples collected closest to the tram area [e.g., B05(0-4); B06(0-6); B09(0-3)].
- XRF Concentrations of arsenic were detected above the MTCA Method C Industrial (Cancer) CUL in seven out of 17 borings; these borings (B04 through B09, B11) were concentrated around the center of the return tram near an opening in the tram. This opening has now reportedly been closed.
- Arsenic concentrations in 13 of the deepest collected samples were below the 88 mg/kg MTCA Method C CUL. The bottom samples in borings B05, B08, B11, and B13 (laboratory data only) were measured to exceed the 88 mg/kg MTCA Method C CUL.
- Total chromium was detected above 2,000 mg/kg at one surface sample location, B09; this highest detected concentration of chromium (6,556 mg/kg) is below the MTCA Method C Industrial (Non-Cancer) CUL of 5,300,000 mg/kg. Location B09 is near the tramway at a location where there was formerly an opening in the metal tram (now patched). Deeper samples collected from the same boring contained lower field screening concentrations and the deepest sample at B09 was below the level of



detection of the XRF. In general, similar to arsenic concentrations, concentrations of total chromium decreased with depth.

• While only total arsenic was detected above the MTCA Method C Industrial CUL, concentrations of other total metals concentrations also generally decreased with increasing sample depth.

Based on field screening data from the XRF, arsenic and chromium are the primary metals of interest in soil. However, due to the likely source of the arsenic and chromium in soil, e.g., chromium copper arsenate, copper was also retained as a potential chemical of concern (COC) at the site. Concentrations of copper in XRF field screening results were not detected above 140,000 mg/kg, the MTCA Method C Industrial (Non-Cancer) CUL for soil. Concentrations of copper ranged from 2.7 mg/kg to 1,338.7 mg/kg [B09(0-3)]; the highest concentration corresponds to a surface sample with elevated concentrations of arsenic and chromium. In general, as with most metals, field screening concentrations decreased with increasing depth.

3.3 Laboratory Soil Results and Field Data Correlation

Five samples [B01(6-12), B05(0-4), B09(12-14), B11(12-18), and B17(12-18)] and one field duplicate were initially analyzed by TestAmerica for RCRA 8 metals, copper, nickel, and zinc by EPA Method 6020; following receipt of initial sample results, an additional six samples [B04(12-18), B05(10-16), B07(9-13), B08(15-18), B13(12-18), B16(12-18)] were analyzed for total arsenic, chromium, and copper.

Barium, chromium, lead, mercury, selenium, copper, nickel, and zinc were detected at concentrations above laboratory reporting limits but below the MTCA Method C Industrial CULs. Cadmium and silver were not detected above laboratory reporting limits.

In the laboratory samples analyzed for total metals, arsenic was reported at concentrations above MTCA Method C Industrial (Cancer) CUL in four out of 11 samples. XRF (field screening) concentrations of arsenic in these samples ranged from 6 mg/kg to 646 mg/kg; the corresponding laboratory analytical range was from 28 mg/kg to 1,300 mg/kg. Out of 11 samples analyzed by the analytical laboratory, in nine out of 11 pairs (XRF-lab), the result (over/under CUL) matched; in the other two sample pairs [B22(12-18) and B13(12-18)], concentrations were near the CUL and one result was above and one below.

Generally, laboratory analytical results for total metals show a strong correlation with the XRF field screening results. While concentrations do not show a 1:1 concentration correlation, the correlation between XRF field results and laboratory analytical results for total metals for the primary COCs (e.g., arsenic and chromium) was strong (r² of 0.96 for arsenic and r² of 0.93 for chromium). This suggests that while XRF screening results should not be used as the primary means for determining compliance with CULs, particularly for concentrations near the CUL, it is a reliable indicator of the magnitude of metals concentrations that a full analytical protocol will produce.

While XRF is a reliable predictor of the magnitude of metals concentrations, it is not a sensitive enough tool to ascertain compliance with CULs when XRF concentrations are measured to be close to (approximately, within 25 mg/kg) the CUL. While seven XRF field screening



concentrations were below 20 mg/kg during field screening, none of the laboratory analytical samples reported concentrations of arsenic below 20 mg/kg. Thus, given the dataset, it is a reasonable assumption that at 1.5 feet bgs, arsenic is above 20 mg/kg throughout the study area.

Based on the total metals results, seven samples collected from the bottom intervals of borings were analyzed for TCLP metals. At the deepest explored depth, arsenic was detected in laboratory samples above 20 mg/kg; however, the TCLP concentrations of arsenic were below the laboratory reporting limit in all but one sample, which detected arsenic at a concentration of 0.35 milligrams per liter (mg/L), below the hazardous waste criteria of 5 mg/L. TCLP concentrations of chromium were below the laboratory reporting limit in five out of seven samples; the two detections above the laboratory reporting limit were below 1 mg/L. Based on this information, leaching is not expected to be a concern in the area. While total arsenic is present in the deeper samples at concentrations above 20 mg/kg, concentrations were measured to attenuate with depth. Thus, metals are not expected to be leaching to surface water or shallow groundwater (not encountered).



Section 4: Recommendations

4.1 Exposure Pathways

Potential exposure pathways for shallow (unsaturated) soils generally include:

- Leaching to groundwater or surface water
- Soil direct contact.

Leaching to groundwater or surface water is not a complete exposure pathway. TCLP metals concentrations for arsenic, chromium, and copper were generally below the laboratory detection limits or below RCRA hazardous waste limits, so the potential for these metals to leach to groundwater or surface water is considered to be very low. Additionally, surface water discharges from the site are tested regularly for metals (including arsenic, chromium, and copper) and total suspended solids and compliance issues have not been identified.

At this site, only soil direct contact is a potentially complete exposure pathway. Exposure to potentially impacted soil may be possible for onsite workers who disturb soil in the area of potential impacts.

4.2 Short-Term Mitigation

As the potential exposure pathways are limited to soil direct contact, several options are available to limit direct contact of workers to soils in the ACQ Plant area. Recommended actions include implementation of institutional controls.

Full removal of metals-impacted soil in the ACQ Plant area is not feasible without removal of plant infrastructure and relocation of utilities, which is not considered to be a short-term mitigation option. This scenario is discussed further in Section 4.3.

4.2.1 Institutional Controls

Soil direct contact can be effectively mitigated through a variety of institutional controls (ICs). Potential ICs can include restrictions on actions within the ACQ plant area, such as preventing soil disturbance in the area without proper training (e.g., 40-hour HAZWOPER), protecting informational devices, or providing employee education. This could include signage in the area warning of metals in soil and to avoid direct exposure risks, or employee education about soils in the ACQ Plant area and how to limit exposure risks.

For the Sumner ACQ Plant area, the recommended IC is signage and employee education for those employees who work in the ACQ Plant area. Since the soil in question is within a bioswale and partially located beneath aboveground utilities (e.g., steam pipes and the return tram), there is low risk of other employees encountering this soil except to make active changes to the bioswale area or to work on the utilities. Thus, access and exposure to these soils can be



effectively managed through an employee education program. Soil disturbance (e.g., digging or earthwork) in this area should be conducted by workers with 40-hour HAZWOPER certification.

Regardless of the IC(s) selected, the IC(s) should be documented in a site-specific plan to be kept onsite. ICs should remain in place until the soil is removed (see Section 4.3) or otherwise addressed.

4.3 Long-Term Recommendations

Soil direct contact in the ACQ Plant area could be effectively mitigated through removal of soil and replacement with clean fill soil, or a clean soil or impervious cap could be installed without excavation of soils. These options would limit direct contact by preventing exposure to metals in surface soil.

If construction in ACQ Plant area is conducted in the future, e.g., if the tramway is removed, metals-impacted soil could be removed (to the extent practicable) at that time. However, without full relocation of all utilities, including the aboveground steam pipes, tramway, and utilities beneath the bioswale, it is unlikely that all impacted soil could be effectively removed. The direct contact exposure pathway can be effectively managed with ICs until such time as excavation in this area is feasible, such as during plant shutdown or a change in operations in this area. Once a timeline for ACQ Plant (or area) shutdown is known, the site owner should prepare a work plan to remove the metals-impacted soil once current obstructions are removed.

The final soil removal and handling process should be conducted only by workers with the proper certifications (e.g., 40-hour HAZWOPER). The soil in this area would currently be considered F035-listed waste; however, prior to removal, Manke would request a contained-in determination from Ecology to treat the waste according to its characteristics.



References

City of Sumner Community Development Department. 2019. City of Sumner Zoning Map.

- Kennedy Jenks. 2020. Soil Investigation Work Plan Manke Lumber Sumner ACQ Plant. Prepared for Manke Lumber. 7 August 2020.
- Washington State Department of Ecology. 2020a. RE: Dangerous Waste Compliance Inspection on April 23, 2019 at Manke Lumber Co Inc./Superior Wood Treating (Manke); EPA/State ID Number: WAD981764434. Compliance Inspection Report. 3 March.
- Washington State Department of Ecology. 2020b. RE: Dangerous Waste Focused Compliance Inspection on July 8, 2019 at Manke Lumber Co. Inc./Superior Wood Treating (Manke); EPA/State ID Number: WAD981764434. Dangerous Waste Compliance Inspection. 3 March.

Table

Table 1: XRF and Laboratory Analytical Data

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BDD 6.6 BDDO 5.7 6.0 7.4 7.0 <td>B01</td> <td>12-18</td> <td>10/7/2020 14:02</td> <td>30</td> <td>383</td> <td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.5</td><td>2.7</td><td>30</td><td>74</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td>	B01	12-18	10/7/2020 14:02	30	383	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.5</td><td>2.7</td><td>30</td><td>74</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.5</td><td>2.7</td><td>30</td><td>74</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>1.5</td><td>2.7</td><td>30</td><td>74</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>1.5</td><td>2.7</td><td>30</td><td>74</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<>	<lod< td=""><td>1.5</td><td>2.7</td><td>30</td><td>74</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<>	1.5	2.7	30	74														
B03 6112 108/200 183 4.00 <	B02	0-6	10/6/2020 13:09	16	233	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>8.3</td><td><lod< td=""><td>74</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>8.3</td><td><lod< td=""><td>74</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>8.3</td><td><lod< td=""><td>74</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>8.3</td><td><lod< td=""><td>74</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>8.3</td><td><lod< td=""><td>74</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>8.3</td><td><lod< td=""><td>74</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<>	8.3	<lod< td=""><td>74</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<>	74														
Bit Cond	B02	6-12	10/6/2020 13:15	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>40</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>5.1</td><td><lod< td=""><td>78</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>40</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>5.1</td><td><lod< td=""><td>78</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>40</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>5.1</td><td><lod< td=""><td>78</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>40</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>5.1</td><td><lod< td=""><td>78</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	40	<lod< td=""><td><lod< td=""><td><lod< td=""><td>5.1</td><td><lod< td=""><td>78</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>5.1</td><td><lod< td=""><td>78</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>5.1</td><td><lod< td=""><td>78</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<>	5.1	<lod< td=""><td>78</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<>	78														
B64 612 1000000000000000000000000000000000000	B03	0-6	10/6/2020 13:01	19	334	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>12</td><td>8.4</td><td>20</td><td>70</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>12</td><td>8.4</td><td>20</td><td>70</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>12</td><td>8.4</td><td>20</td><td>70</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>12</td><td>8.4</td><td>20</td><td>70</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<>	<lod< td=""><td>12</td><td>8.4</td><td>20</td><td>70</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<>	12	8.4	20	70														
Bit Bit <td>B03</td> <td>6-12</td> <td>10/6/2020 13:05</td> <td>32</td> <td>297</td> <td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>5.6</td><td><lod< td=""><td>70</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td>	B03	6-12	10/6/2020 13:05	32	297	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>5.6</td><td><lod< td=""><td>70</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>5.6</td><td><lod< td=""><td>70</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>5.6</td><td><lod< td=""><td>70</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>5.6</td><td><lod< td=""><td>70</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>5.6</td><td><lod< td=""><td>70</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>5.6</td><td><lod< td=""><td>70</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<>	5.6	<lod< td=""><td>70</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<>	70														
Bot Bot <td>B04</td> <td>0-6</td> <td>10/6/2020 12:50</td> <td>28</td> <td>3/3</td> <td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>26.5</td><td><lod< td=""><td>104</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td>	B04	0-6	10/6/2020 12:50	28	3/3	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>26.5</td><td><lod< td=""><td>104</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>26.5</td><td><lod< td=""><td>104</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>26.5</td><td><lod< td=""><td>104</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>26.5</td><td><lod< td=""><td>104</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>26.5</td><td><lod< td=""><td>104</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>26.5</td><td><lod< td=""><td>104</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<>	26.5	<lod< td=""><td>104</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<>	104														
bbs cbs cbs <td>B04</td> <td>6-12</td> <td>10/6/2020 12:55</td> <td>100</td> <td>162</td> <td><lod< td=""><td>262</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>53.1</td><td><lod< td=""><td>142</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td>	B04	6-12	10/6/2020 12:55	100	162	<lod< td=""><td>262</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>53.1</td><td><lod< td=""><td>142</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	262	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>53.1</td><td><lod< td=""><td>142</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>53.1</td><td><lod< td=""><td>142</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>53.1</td><td><lod< td=""><td>142</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>53.1</td><td><lod< td=""><td>142</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<>	53.1	<lod< td=""><td>142</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<>	142														
BOS Col DOS Col Sol Sol Sol Col Col Sol Sol <td>B04</td> <td>12-18</td> <td>10/6/2020 17:02</td> <td>43</td> <td>281</td> <td><lod< td=""><td>107</td><td>33</td><td><lod< td=""><td><lod< td=""><td></td><td>15.4</td><td><lod< td=""><td>/4</td><td>76 F1 F2</td><td></td><td></td><td>260 F2</td><td></td><td></td><td></td><td></td><td>290</td><td></td><td></td><td><0.060</td><td>0.029</td><td>2.0</td></lod<></td></lod<></td></lod<></td></lod<></td>	B04	12-18	10/6/2020 17:02	43	281	<lod< td=""><td>107</td><td>33</td><td><lod< td=""><td><lod< td=""><td></td><td>15.4</td><td><lod< td=""><td>/4</td><td>76 F1 F2</td><td></td><td></td><td>260 F2</td><td></td><td></td><td></td><td></td><td>290</td><td></td><td></td><td><0.060</td><td>0.029</td><td>2.0</td></lod<></td></lod<></td></lod<></td></lod<>	107	33	<lod< td=""><td><lod< td=""><td></td><td>15.4</td><td><lod< td=""><td>/4</td><td>76 F1 F2</td><td></td><td></td><td>260 F2</td><td></td><td></td><td></td><td></td><td>290</td><td></td><td></td><td><0.060</td><td>0.029</td><td>2.0</td></lod<></td></lod<></td></lod<>	<lod< td=""><td></td><td>15.4</td><td><lod< td=""><td>/4</td><td>76 F1 F2</td><td></td><td></td><td>260 F2</td><td></td><td></td><td></td><td></td><td>290</td><td></td><td></td><td><0.060</td><td>0.029</td><td>2.0</td></lod<></td></lod<>		15.4	<lod< td=""><td>/4</td><td>76 F1 F2</td><td></td><td></td><td>260 F2</td><td></td><td></td><td></td><td></td><td>290</td><td></td><td></td><td><0.060</td><td>0.029</td><td>2.0</td></lod<>	/4	76 F1 F2			260 F2					290			<0.060	0.029	2.0
bbs bbs <td>B05</td> <td>0-4</td> <td>10/6/2020 11:20</td> <td>640</td> <td>150</td> <td></td> <td>884</td> <td>63</td> <td></td> <td></td> <td><lod< td=""><td>79</td><td><lod< td=""><td>135</td><td>1300</td><td>89</td><td><0.63</td><td>990</td><td>32</td><td>0.21</td><td><1.Z</td><td><0.16</td><td>1800</td><td>41</td><td>140</td><td></td><td></td><td></td></lod<></td></lod<></td>	B05	0-4	10/6/2020 11:20	640	150		884	63			<lod< td=""><td>79</td><td><lod< td=""><td>135</td><td>1300</td><td>89</td><td><0.63</td><td>990</td><td>32</td><td>0.21</td><td><1.Z</td><td><0.16</td><td>1800</td><td>41</td><td>140</td><td></td><td></td><td></td></lod<></td></lod<>	79	<lod< td=""><td>135</td><td>1300</td><td>89</td><td><0.63</td><td>990</td><td>32</td><td>0.21</td><td><1.Z</td><td><0.16</td><td>1800</td><td>41</td><td>140</td><td></td><td></td><td></td></lod<>	135	1300	89	<0.63	990	32	0.21	<1.Z	<0.16	1800	41	140			
b00 0.66 0002001111 0.99 4.00	B05	4-10	10/6/2020 11:32	02	408			67			13	9./	29	62 77	120			120										
bs bs bs c	B05	10-16	10/6/2020 15:42	31	400		<lod 1091</lod 	40				102.0	33	274	130			120					200			<0.000	<0.025	0.05
99/2 99/2 99/2 99/2 99/2 99/2 99/2 99/2 99/2 99/2 99/2 99/2 99/2 99/2 90/2 <th< td=""><td>B06</td><td>6-9</td><td>10/6/2020 11:11</td><td>71</td><td>240</td><td></td><td></td><td></td><td></td><td></td><td></td><td>18.8</td><td></td><td>78</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	B06	6-9	10/6/2020 11:11	71	240							18.8		78														
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bit bit< bi	B07	0-6	10/6/2020 13:23	220			223	41				165.6		364														
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B88 066 066/200 (153) 114 -1.00 8.38 -1.00 8.00 6.00 6.00 6.00 6.00 6.00 7.20 7.20 7.0 </td <td>B07</td> <td>9-13</td> <td>10/6/2020 15:28</td> <td>26</td> <td>815</td> <td></td> <td></td> <td><i od<="" td=""><td></td><td></td><td>4.2</td><td>7.8</td><td>59</td><td>60</td><td>62</td><td></td><td></td><td>89</td><td></td><td></td><td></td><td></td><td>240</td><td></td><td></td><td><0.060</td><td><0.025</td><td>1.5</td></i></td>	B07	9-13	10/6/2020 15:28	26	815			<i od<="" td=""><td></td><td></td><td>4.2</td><td>7.8</td><td>59</td><td>60</td><td>62</td><td></td><td></td><td>89</td><td></td><td></td><td></td><td></td><td>240</td><td></td><td></td><td><0.060</td><td><0.025</td><td>1.5</td></i>			4.2	7.8	59	60	62			89					240			<0.060	<0.025	1.5
B68 0-12 1002/200163 316 133 4.00 807 280 4.00 4.00 4.00 4.00 220 1.0 - - - -	B08	0-6	10/6/2020 10:31	114			38			<l od<="" td=""><td><i od<="" td=""><td>96.7</td><td></td><td>372</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></i></td></l>	<i od<="" td=""><td>96.7</td><td></td><td>372</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></i>	96.7		372														
B08 12:15 109:229 380 199 400	B08	6-12	10/6/2020 10:51	315	133	<lod< td=""><td>817</td><td>28</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>108.1</td><td><lod< td=""><td>322</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	817	28	<lod< td=""><td><lod< td=""><td><lod< td=""><td>108.1</td><td><lod< td=""><td>322</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>108.1</td><td><lod< td=""><td>322</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>108.1</td><td><lod< td=""><td>322</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<>	108.1	<lod< td=""><td>322</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<>	322														
B08 1518 109/20201532 271 345 40.00 2.90 4.00 7 7 133.7 133.7 44 200 -	B08	12-15	10/6/2020 16:52	380	199	<lod< td=""><td>602</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>141.8</td><td><lod< td=""><td>289</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	602	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>141.8</td><td><lod< td=""><td>289</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>141.8</td><td><lod< td=""><td>289</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>141.8</td><td><lod< td=""><td>289</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>141.8</td><td><lod< td=""><td>289</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<></td></lod<>	141.8	<lod< td=""><td>289</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<>	289														
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Notes:

Bold indicates analyte was reported above the laboratory reporting limit. Gray shading indicates analyte is above the MTCA Method A cleanup level (CUL) or the MTCA Method B CUL. Blue shading indicates analyte is above the MTCA Method C Cancer or Non-cancer CUL. Second result is the deuplicate sample result.

" < " Analyte not reported above the indicated laboratory reporting limit.

" - -" denotes not measured, not available, or not applicable.

mg/kg = milligrams per kilogram

mg/L = miligrams per liter

MTCA = Model Toxic Control Act

RCRA = Resource Conservation and Recovery Act TCLP = Toxicity Characteristic Leaching Procedure

LOD = Limit of Detection

F1 = Matrix spike and/or matrix spike duplicate recovery exceeds control limits

F2 = Matrix spike/matrix spike duplicate relative percent difference exceeds control limits



Figures





Scale: Feet



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community KJ Kennedy Jenks Legend Note: Manke Sumner Mill Arsenic Field Screening Concentration Range Sample Locations 1. All locations are approximate. Sumner, Washington (XRF; mg/kg) \boxtimes Not Sampled 2. Top box represents most shallow < LOD soil depth sampled, middle box 6.00 - 20.00 Z represents mid soil depth sampled, 20.01 - 50.00 (Above Method A and bottom box represents deepest **Arsenic XRF Concentrations** CUL) 50 soil sample. 50.01 - 88.00 3. LOD = limit of detection. 4. CUL = cleanup level. Figure 3 Scale: Feet > 88 (Above Method C CUL)



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

- Sample Locations

 B-13

 12 -18 in

 XRF
 80

 Total Metals
 92

 TCLP
 <0.060

Note:

- 1. All locations are approximate.
- 2. mg/kg = milligrams per kilogram mg/L = milligrams per liter
- 3. Laboratory and XRF detections are bolded.
- 4. Results reported above the MTCA Method A
- cleanup level of 20 mg/kg are shaded gray.5. Results reported above the MTCA Method C cleanup level of 88 mg/kg are shaded blue.
- 6. Duplicate sample results shown after "/".





Manke Sumner Mill Sumner, Washington

Field and Laboratory Arsenic Concentrations

Figure 3



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

Chromium Field Screening Sample Locations • Concentration Range (XRF; mg/kg) \bowtie Not Sampled < LOD 20.00-100.00 100.00-2,000 2,000-5,300,00 (Above Method A CUL)

> 5,300,000 (Above Method C CUL)

Note:

- 1. All locations are approximate.
- 2. Top box represents most shallow soil depth sampled, middle box represents mid soil depth sampled, and bottom box represents deepest
- soil sample. 3. LOD = limit of detection.
- 4. CUL = cleanup level.



Scale: Feet



Manke Sumner Mill Sumner, Washington

Chromium XRF Concentrations





Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

- Copper Field Screening Concentration Range (XRF; mg/kg)

 LOD
 2.7-50.00
 50.00-3,200.00
 3,200.00-140,000 (Above Method B CUL)

 Mot Sample
 Sample Locations
 Not Sampled

 Sample Locations
 Not Sampled
 - > 140,000 (Above Method C CUL)

Note:

- All locations are approximate.
 Top box represents most shallow soil depth sampled, middle box represents mid soil depth sampled, and bottom box represents deepest
- soil sample.
- 3. LOD = limit of detection.
- 4. CUL = cleanup level.





Manke Sumner Mill Sumner, Washington

Copper XRF Concentrations

Appendix A

Laboratory Analytical Reports and Chain-of-Custody Documentation

🛟 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-98071-1

Client Project/Site: Sumner Storm Water

For:

..... LINKS

Review your project results through

Total Access

Have a Question?

www.eurofinsus.com/Env

Visit us at:

Ask

pert

Manke Lumber Company Inc 1717 Marine View Drive Tacoma, Washington 98422

Attn: Mr. John McBride

Authorized for release by: 10/21/2020 1:56:10 PM

Nathan Lewis, Project Manager I (253)922-2310 Nathan.Lewis@Eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

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Sample Summary 1	7
Chain of Custody 1	8
Receipt Checklists 24	4

Job ID: 580-98071-1

Laboratory: Eurofins TestAmerica, Seattle

Narrative

Job Narrative 580-98071-1

Comments

No additional comments.

Receipt

The samples were received on 10/7/2020 4:49 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 11.5° C and 14.9° C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): B05(4-10) (580-98071-11). The container labels list B05(4-10), while the COC lists B05(6-12). The sample was logged in per COC.

Metals

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

General Chemistry

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

3

9

Definitions/Glossary

Client: Manke Lumber Company Inc Project/Site: Sumner Storm Water

Qualifiers

Metals

Qualifier

F1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
a	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
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
ſEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

4

Client Sample ID: B01(6-12) Date Collected: 10/06/20 11:52 Date Received: 10/07/20 16:49

Lab Sample ID: 580-98071-2 Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	49		0.38		mg/Kg		10/14/20 10:50	10/14/20 16:22	10
Barium	31	F1	0.76		mg/Kg		10/14/20 10:50	10/14/20 16:22	10
Cadmium	ND		0.61		mg/Kg		10/14/20 10:50	10/14/20 16:22	10
Chromium	37		0.76		mg/Kg		10/14/20 10:50	10/14/20 16:22	10
Lead	5.1		0.38		mg/Kg		10/14/20 10:50	10/14/20 16:22	10
Selenium	1.3		1.1		mg/Kg		10/14/20 10:50	10/14/20 16:22	10
Silver	ND		0.15		mg/Kg		10/14/20 10:50	10/14/20 16:22	10
Copper	64	F1	0.76		mg/Kg		10/14/20 10:50	10/14/20 16:22	10
Nickel	9.3		0.38		mg/Kg		10/14/20 10:50	10/14/20 16:22	10
Zinc	64	F1	4.2		mg/Kg		10/14/20 10:50	10/14/20 16:22	10
Method: 7471A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.022		mg/Kg		10/13/20 08:37	10/13/20 12:37	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.3		0.1		%			10/19/20 12:55	1
Percent Moisture	12.7		0.1		%			10/19/20 12:55	1

Lab Sample ID: 580-98071-10 Matrix: Solid

Client Sample ID: B05(0-4) Date Collected: 10/06/20 09:56 Date Received: 10/07/20 16:49

-

Method: 6020B - Metals (ICP/MS)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	3
Arsenic	1300		0.39		mg/Kg		10/14/20 10:50	10/14/20 18:01	10	-
Barium	89		0.79		mg/Kg		10/14/20 10:50	10/14/20 18:01	10	
Cadmium	ND		0.63		mg/Kg		10/14/20 10:50	10/14/20 18:01	10	
Chromium	990		0.79		mg/Kg		10/14/20 10:50	10/14/20 18:01	10	
Lead	32		0.39		mg/Kg		10/14/20 10:50	10/14/20 18:01	10	
Selenium	ND		1.2		mg/Kg		10/14/20 10:50	10/14/20 18:01	10	
Silver	ND		0.16		mg/Kg		10/14/20 10:50	10/14/20 18:01	10	
Copper	1800		0.79		mg/Kg		10/14/20 10:50	10/14/20 18:01	10	
Nickel	41		0.39		mg/Kg		10/14/20 10:50	10/14/20 18:01	10	
Zinc	140		4.3		mg/Kg		10/14/20 10:50	10/14/20 18:01	10	
Method: 7471A - Mercury (CVAA)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Mercury	0.21		0.020		mg/Kg		10/13/20 08:37	10/13/20 12:46	1	
General Chemistry										
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Percent Solids	87.9		0.1		%			10/19/20 12:55	1	
Percent Moisture	12.1		0.1		%			10/19/20 12:55	1	

Client: Manke Lumber Company Inc Project/Site: Sumner Storm Water

Client Sample ID: B09(12-14) Date Collected: 10/06/20 15:22 Date Received: 10/07/20 16:49

Lab Sample ID: 580-98071-25 Matrix: Solid

Method: 6020B - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	28		0.36		mg/Kg		10/14/20 10:50	10/14/20 18:05	10
Barium	35		0.71		mg/Kg		10/14/20 10:50	10/14/20 18:05	10
Cadmium	ND		0.57		mg/Kg		10/14/20 10:50	10/14/20 18:05	10
Chromium	36		0.71		mg/Kg		10/14/20 10:50	10/14/20 18:05	10
Lead	4.1		0.36		mg/Kg		10/14/20 10:50	10/14/20 18:05	10
Selenium	1.8		1.1		mg/Kg		10/14/20 10:50	10/14/20 18:05	10
Silver	ND		0.14		mg/Kg		10/14/20 10:50	10/14/20 18:05	10
Copper	110		0.71		mg/Kg		10/14/20 10:50	10/14/20 18:05	10
Nickel	11		0.36		mg/Kg		10/14/20 10:50	10/14/20 18:05	10
Zinc	27		3.9		mg/Kg		10/14/20 10:50	10/14/20 18:05	10
Method: 7471A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.021		mg/Kg		10/13/20 08:37	10/13/20 12:49	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86.8		0.1		%			10/19/20 12:55	1
Percent Moisture	13.2		0.1		%			10/19/20 12:55	1

Client Sample ID: DUP01-20201006

Date Collected: 10/06/20 00:01

Lab Sample ID: 580-98071-26 Matrix: Solid

Date Received: 10/07/20 16:49

Method: 6020B - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	28		0.30		mg/Kg		10/14/20 10:50	10/14/20 18:08	10
Barium	34		0.60		mg/Kg		10/14/20 10:50	10/14/20 18:08	10
Cadmium	ND		0.48		mg/Kg		10/14/20 10:50	10/14/20 18:08	10
Chromium	38		0.60		mg/Kg		10/14/20 10:50	10/14/20 18:08	10
Lead	4.0		0.30		mg/Kg		10/14/20 10:50	10/14/20 18:08	10
Selenium	1.4		0.91		mg/Kg		10/14/20 10:50	10/14/20 18:08	10
Silver	ND		0.12		mg/Kg		10/14/20 10:50	10/14/20 18:08	10
Copper	120		0.60		mg/Kg		10/14/20 10:50	10/14/20 18:08	10
Nickel	11		0.30		mg/Kg		10/14/20 10:50	10/14/20 18:08	10
Zinc	27		3.3		mg/Kg		10/14/20 10:50	10/14/20 18:08	10
Method: 7471A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.021		mg/Kg		10/13/20 08:37	10/13/20 12:51	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.0		0.1		%			10/19/20 12:55	1
Percent Moisture	12.0		0.1		%			10/19/20 12:55	1

5

Dil Fac

10

10

10

10

10

10

10

10

10

10

1

Dil Fac

Client Sample ID: B11(12-14) Date Collected: 10/07/20 09:36 Date Received: 10/07/20 16:49

Lab Sample ID: 580-98071-33 Matrix: Solid

Method: 6020B - Metals (ICP/MS) Analyte RL MDL Unit **Result Qualifier** D Prepared Analyzed Arsenic 76 0.38 mg/Kg 10/14/20 10:50 10/14/20 18:12 Barium 38 0.77 mg/Kg 10/14/20 10:50 10/14/20 18:12 Cadmium ND 10/14/20 10:50 10/14/20 18:12 0.61 mg/Kg Chromium 170 0.77 mg/Kg 10/14/20 10:50 10/14/20 18:12 0.38 10/14/20 10:50 10/14/20 18:12 Lead 6.3 mg/Kg 10/14/20 10:50 10/14/20 18:12 Selenium 1.2 1.2 mg/Kg Silver ND 0.15 mg/Kg 10/14/20 10:50 10/14/20 18:12 Copper 190 0.77 mg/Kg 10/14/20 10:50 10/14/20 18:12 Nickel 10 0.38 mg/Kg 10/14/20 10:50 10/14/20 18:12 10/14/20 10:50 10/14/20 18:12 Zinc 76 4.2 mg/Kg Method: 7471A - Mercury (CVAA) MDL Unit RL Prepared Analyte **Result Qualifier** D Analyzed 10/13/20 08:37 10/13/20 12:53 0.021 Mercury 0.072 mg/Kg

General Chemistry	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.8		0.1		%			10/19/20 12:55	1
Percent Moisture	18.2		0.1		%			10/19/20 12:55	1

5

Dil Fac

10

10

10

10

10

10

10

10

10

10

Client Sample ID: B17(12-18) Date Collected: 10/07/20 13:30 Date Received: 10/07/20 16:49

Lab Sample ID: 580-98071-52 Matrix: Solid

Analyzed

Method: 6020B - Metals (ICP/MS) Analyte RL MDL Unit **Result Qualifier** D Prepared Arsenic 53 0.30 mg/Kg 10/14/20 10:50 10/14/20 18:20 Barium 0.61 mg/Kg 10/14/20 10:50 10/14/20 18:20 26 Cadmium 10/14/20 10:50 10/14/20 18:20 ND 0.49 mg/Kg Chromium 130 0.61 mg/Kg 10/14/20 10:50 10/14/20 18:20 0.30 10/14/20 10:50 10/14/20 18:20 Lead mg/Kg 5.6 10/14/20 10:50 10/14/20 18:20 0.91 mg/Kg Selenium 1.1 Silver ND 0.12 mg/Kg 10/14/20 10:50 10/14/20 18:20 Copper 110 0.61 mg/Kg 10/14/20 10:50 10/14/20 18:20 mg/Kg 10/14/20 10:50 10/14/20 18:20 Nickel 9.9 0.30 10/14/20 10:50 10/14/20 18:20 Zinc 3.3 mg/Kg 74

Method: 7471A - Mercury (CVAA) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.064		0.022		mg/Kg		10/13/20 08:37	10/13/20 12:55	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86.7		0.1		%			10/19/20 12:55	1
Percent Moisture	13.3		0.1		%			10/19/20 12:55	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-340786/22-A Matrix: Solid Analysis Batch: 340842

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	-
Arsenic	ND		0.25		mg/Kg		10/14/20 10:50	10/14/20 16:18	5	1
Barium	ND		0.50		mg/Kg		10/14/20 10:50	10/14/20 16:18	5	
Cadmium	ND		0.40		mg/Kg		10/14/20 10:50	10/14/20 16:18	5	
Chromium	ND		0.50		mg/Kg		10/14/20 10:50	10/14/20 16:18	5	
Lead	ND		0.25		mg/Kg		10/14/20 10:50	10/14/20 16:18	5	
Selenium	ND		0.75		mg/Kg		10/14/20 10:50	10/14/20 16:18	5	
Silver	ND		0.10		mg/Kg		10/14/20 10:50	10/14/20 16:18	5	
Copper	ND		0.50		mg/Kg		10/14/20 10:50	10/14/20 16:18	5	
Nickel	ND		0.25		mg/Kg		10/14/20 10:50	10/14/20 16:18	5	
Zinc	ND		2.8		mg/Kg		10/14/20 10:50	10/14/20 16:18	5	

LCS LCS

52.7

51.9

54.5

Lab Sample ID: LCS 580-340786/23-A

Matrix: Solid Analysis Batch: 340842

Silver

Copper

Nickel

Client Sample ID: Lab Control Sample

80 - 120

80 - 120

80 - 120

80 - 120

80 - 120

80 - 120

80 - 120

80-120

80 - 120

80 - 120

Prep Type: Total/NA

105

104

109

Client Sample ID: Lab Control Sample Dup

mg/Kg

mg/Kg

mg/Kg

	Prep Type: Total/NA
	Prep Batch: 340786
	%Rec.
C	Limits

Analyte	Added	Result	Qualifier	Unit	D	%Rec
Arsenic	50.0	54.1		mg/Kg		108
Barium	50.0	53.0		mg/Kg		106
Cadmium	50.0	49.9		mg/Kg		100
Chromium	50.0	50.4		mg/Kg		101
Lead	50.0	48.4		mg/Kg		97
Selenium	50.0	55.2		mg/Kg		110
Silver	50.0	49.4		ma/Ka		99

Spike

50.0

50.0

50.0

Zinc Lab Sample ID: LCSD 580-340786/24-A

Matrix: Solid

Analysis Batch: 340842							Prep Ba	tch: 34	10786
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	50.0	53.8	1	mg/Kg		108	80 - 120	1	20
Barium	50.0	52.4		mg/Kg		105	80 - 120	1	20
Cadmium	50.0	49.1		mg/Kg		98	80 - 120	1	20
Chromium	50.0	49.5		mg/Kg		99	80 - 120	2	20
Lead	50.0	47.6		mg/Kg		95	80 - 120	2	20
Selenium	50.0	53.4		mg/Kg		107	80 - 120	3	20
Silver	50.0	48.4		mg/Kg		97	80 - 120	2	20
Copper	50.0	51.9		mg/Kg		104	80 - 120	2	20
Nickel	50.0	51.5		mg/Kg		103	80 - 120	1	20
Zinc	50.0	53.3		mg/Kg		107	80 - 120	2	20
Lab Sample ID: 580-98071-2 MS						Client	Sample II	D: B01	(6-12)
Matrix: Solid							Prep Ty	pe: Tot	al/NA

Matrix: Solid Analysis Batch: 340842

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	49	and detailed for another other	38.7	92.4		mg/Kg		113	80 - 120	

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Prep Batch: 340786

Job ID: 580-98071-1

Prep Type: Total/NA

Prep Batch: 340786

Client Sample ID: Method Blank

Client: Manke Lumber Company Inc Project/Site: Sumner Storm Water

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-98071-2 MS Matrix: Solid Analysis Batch: 340842

Analysis Batch: 340842									Prep Batch: 340786
	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Barium	31	F1	38.7	84.3	F1	mg/Kg		138	80 - 120
Cadmium	ND		38.7	37.5		mg/Kg		97	80 - 120
Chromium	37		38.7	82.1		mg/Kg		116	80 - 120
Lead	5.1		38.7	41.8		mg/Kg		95	80 - 120
Selenium	1.3		38.7	42.0		mg/Kg		105	80 - 120
Silver	ND		38.7	36.3		mg/Kg		94	80 - 120
Copper	64	F1	38.7	123	F1	mg/Kg		152	80 - 120
Nickel	9.3		38.7	49.8		mg/Kg		105	80 - 120
Zinc	64	F1	38.7	112	F1	mg/Kg		124	80 - 120

Lab Sample ID: 580-98071-2 MSD Matrix: Solid

Analysis Batch: 340842

Analysis Batch: 340842									Prep Ba	tch: 34	40786
37.	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	49		37.8	89.5		mg/Kg	_	108	80 - 120	3	20
Barium	31	F1	37.8	77.7	F1	mg/Kg		124	80 - 120	8	20
Cadmium	ND		37.8	36.1		mg/Kg		95	80 - 120	4	20
Chromium	37		37.8	80.4		mg/Kg		114	80 - 120	2	20
Lead	5.1		37.8	40.5		mg/Kg		94	80 - 120	3	20
Selenium	1.3		37.8	37.3		mg/Kg		95	80 - 120	12	20
Silver	ND		37.8	36.1		mg/Kg		95	80 - 120	0	20
Copper	64	F1	37.8	114	F1	mg/Kg		133	80 - 120	7	20
Nickel	9.3		37.8	48.3		mg/Kg		103	80 - 120	з	20
Zinc	64	F1	37.8	108		mg/Kg		118	80 - 120	3	20

Lab Sample ID: 580-98071-2 DU Matrix: Solid

Analysis Batch: 340842

Analysis Batch: 340842							Prep Batch: 3	40786
	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Arsenic	49		46.1		mg/Kg		5	20
Barium	31	F1	31.1		mg/Kg		0.4	20
Cadmium	ND		ND		mg/Kg		NC	20
Chromium	37		37.4		mg/Kg		0.1	20
Lead	5.1		5.35		mg/Kg		6	20
Selenium	1.3		1.62		mg/Kg		20	20
Silver	ND		ND		mg/Kg		NC	20
Copper	64	F1	68.1		mg/Kg		6	20
Nickel	9.3		9.83		mg/Kg		6	20
Zinc	64	F1	63.8		mg/Kg		0.1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-34064	6/22-A						Client Samp	le ID: Method	Blank
Matrix: Solid							a contra company	Prep Type: To	otal/NA
Analysis Batch: 340698								Prep Batch:	340646
	MB	МВ						-	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.030		mg/Kg		10/13/20 08:38	10/13/20 12:13	1

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Prep Type: Total/NA

Client Sample ID: B01(6-12)

Client Sample ID: B01(6-12)

Client Sample ID: B01(6-12)

Prep Type: Total/NA

Prep Type: Total/NA

Method: 7471A - Mercury (CVAA)

Lab Sample ID: LCS 580-3	40646/23-A	0				Clier	nt Sa	mple ID	: Lab Cor	ntrol Sa	ample
Matrix: Solid								1.2	Prep Ty	pe: Tot	al/NA
Analysis Batch: 340698									Prep Ba	tch: 3	40646
			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Mercury			0.167	0.158		mg/Kg	_	95	80 - 120		
Lab Sample ID: LCSD 580-	-340646/24-	A			C	Client Sa	mple	ID: Lab	Control	Sample	e Dup
Matrix: Solid									Prep Ty	pe: Tot	al/NA
Analysis Batch: 340698									Prep Ba	tch: 34	40646
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	\$ <u></u> }		0.167	0.162	10	mg/Kg	-2.22	97	80 - 120	3	20
Lab Sample ID: 580-98071-	-2 MS							Client	Sample II	D: 801	(6-12)
Matrix: Solid									Prep Ty	pe: Tot	al/NA
Analysis Batch: 340698									Prep Ba	tch: 34	40646
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Mercury	ND		0.119	0.148	-	mg/Kg		109	80 - 120		
Lab Sample ID: 580-98071-	2 MSD							Client	Sample II	D: B01	(6-12)
Matrix: Solid									Prep Ty	pe: Tot	al/NA
Analysis Batch: 340698									Prep Ba	tch: 34	10646
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	ND		0.118	0.144		mg/Kg		107	80 - 120	3	20
Lab Sample ID: 580-98071-	2 DU							Client	Sample II	D: B01	(6-12)
Matrix: Solid									Prep Ty	pe: Tot	al/NA
Analysis Batch: 340698									Prep Ba	tch: 34	40646
a na pana mangana dari kana na	Sample	Sample		DU	DU				VOID SALDE GUA VAR		RPD
Analyte	Result	Qualifier		Result	Qualifier	Unit	D			RPD	Limit
Mercury	ND		21 Se	0.0284	5	mg/Kg	지 않는	S		NC	20

6

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Sample ID: 580-98071-2

Lab Sample ID: 580-98071-10

Lab Sample ID: 580-98071-25

Lab Sample ID: 580-98071-26

Client Sample ID: B01(6-12) Date Collected: 10/06/20 11:52 Date Received: 10/07/20 16:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			340786	10/14/20 10:50	ТМН	TAL SEA
Total/NA	Analysis	6020B		10	340842	10/14/20 16:22	FCW	TAL SEA
otal/NA	Prep	7471A			340646	10/13/20 08:37	JCP	TAL SEA
otal/NA	Analysis	7471A		1	340698	10/13/20 12:37	FCW	TAL SEA
fotal/NA	Analysis	2540G		1	341135	10/19/20 12:55	S1S	TAL SEA

Client Sample ID: B05(0-4) Date Collected: 10/06/20 09:56 Date Received: 10/07/20 16:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analvzed	Analyst	Lab
Total/NA	Prep	3050B			340786	10/14/20 10:50	тмн	TAL SEA
Total/NA	Analysis	6020B		10	340842	10/14/20 18:01	FCW	TAL SEA
Total/NA	Prep	7471A			340646	10/13/20 08:37	JCP	TAL SEA
Total/NA	Analysis	7471A		1	340698	10/13/20 12:46	FCW	TAL SEA
Total/NA	Analysis	2540G		1	341135	10/19/20 12:55	S1S	TAL SEA

Client Sample ID: B09(12-14) Date Collected: 10/06/20 15:22 Date Received: 10/07/20 16:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			340786	10/14/20 10:50	тмн	TAL SEA
Total/NA	Analysis	6020B		10	340842	10/14/20 18:05	FCW	TAL SEA
Total/NA	Prep	7471A			340646	10/13/20 08:37	JCP	TAL SEA
Total/NA	Analysis	7471A		1	340698	10/13/20 12:49	FCW	TAL SEA
Total/NA	Analysis	2540G		1	341135	10/19/20 12:55	S1S	TAL SEA

Client Sample ID: DUP01-20201006 Date Collected: 10/06/20 00:01

Date Received: 10/07/20 16:49

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			340786	10/14/20 10:50	тмн	TAL SEA
Total/NA	Analysis	6020B		10	340842	10/14/20 18:08	FCW	TAL SEA
Total/NA	Prep	7471A			340646	10/13/20 08:37	JCP	TAL SEA
Total/NA	Analysis	7471A		1	340698	10/13/20 12:51	FCW	TAL SEA
Total/NA	Analysis	2540G		1	341135	10/19/20 12:55	S1S	TAL SEA

Matrix: Solid

Matrix: Solid

Lab Sample ID: 580-98071-33

Lab Sample ID: 580-98071-52

Client Sample ID: B11(12-14) Date Collected: 10/07/20 09:36 Date Received: 10/07/20 16:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			340786	10/14/20 10:50	тмн	TAL SEA
Total/NA	Analysis	6020B		10	340842	10/14/20 18:12	FCW	TAL SEA
Total/NA	Prep	7471A			340646	10/13/20 08:37	JCP	TAL SEA
Total/NA	Analysis	7471A		1	340698	10/13/20 12:53	FCW	TAL SEA
Total/NA	Analysis	2540G		1	341135	10/19/20 12:55	S1S	TAL SEA

Client Sample ID: B17(12-18) Date Collected: 10/07/20 13:30 Date Received: 10/07/20 16:49

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			340786	10/14/20 10:50	ТМН	TAL SEA
Total/NA	Analysis	6020B		10	340842	10/14/20 18:20	FCW	TAL SEA
Total/NA	Prep	7471A			340646	10/13/20 08:37	JCP	TAL SEA
Total/NA	Analysis	7471A		1	340698	10/13/20 12:55	FCW	TAL SEA
Total/NA	Analysis	2540G		1	341135	10/19/20 12:55	S1S	TAL SEA

Laboratory References:

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

Accreditation/Certification Summary

Client: Manke Lumber Company Inc Project/Site: Sumner Storm Water

Laboratory: Eurofins TestAmerica, Seattle

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

100 Mar 194			
Authority	Program	Identification Number	Expiration Date
Washington	State	C553	02-18-21
Washington	State	C553	02-18-21

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	

Client: Manke Lumber Company Inc Project/Site: Sumner Storm Water

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-98071-2	B01(6-12)	Solid	10/06/20 11:52	10/07/20 16:49	
580-98071-10	B05(0-4)	Solid	10/06/20 09:56	10/07/20 16:49	
580-98071-25	B09(12-14)	Solid	10/06/20 15:22	10/07/20 16:49	
580-98071-26	DUP01-20201006	Solid	10/06/20 00:01	10/07/20 16:49	
580-98071-33	B11(12-14)	Solid	10/07/20 09:36	10/07/20 16:49	
580-98071-52	B17(12-18)	Solid	10/07/20 13:30	10/07/20 16:49	

Eurofins TestAmerica, Seattle 5755 8th Street East Tacoma. WA 98424 Phone (253) 922-2310 Fax (253) 922-5047	Chain of	Custody R	ecord	💸 eurofins · Environme America	ent Testing
Client Information	Sampler BONTALOL/J.SC	Chwar Lewi	M. s. Nathan A	Carrier Tracking No(s): COC No: 580-40425-120201 1	Γ
Client Contact: Julia Schwarz	Phone: CUC. 202.3	304 E-Ma	an.Lewis@Eurofinset.com		
Company: Kennedy/Jenks Consultants			Analvsis Ren	Loot#: Contraction of	
Address: 32001-32nd Ave South, Suite 100	Due Date Requested:			Preservation Coder:	Τ
Crity: Federal Way	TAT Requested (days):				380
State, Zp: WA, 98001	1			C - Zh Acetate D - Minc Acid E - NHSCO	U
Phone: 253-572-6252(Tel) 253-383-2489(Fax)	ж04			F - MeOH	
Emait: juliaschwarz@kennedyjenks.com	WO#:		+ C ^{n;} #	arboc Ac	æ
Project Name Summer Storm Water	Project #: 58000247		eeY) (1 xo as 2 istoh	-A W - pH 4.5	cify)
Ste: Washington	#MOSS		530-98071 Ch	ain of Custody	
	Sa Samula (7-	mple Matrix ype (wareauter	1-1100011-18 M22M (100 1- A11767, 8		
Sample Identification	Sample Date Time G=	grab) steraeeka stervalion Code	8050	Special Instructions/N	ote:
BUI (0-6)	10/1/20 1147 6	S			
Bol(6-12)	1152		×		and he
Bo2(0-c)	1120			Pleasantif.	S th
Bul(b-iz)	1137			in inversion	
Bo3(0-6)	105			Therm ID: R.O. Cor. 14-9. The	1540
Bo3(6-12)	1110			Cooler Dsc: Lg D/uP	- 21
Boit(0-i)	1010			Packing: Proto reactivity	
But (6-12)	1040	-		Blue Ice, Wet, Dry, None Other C	Line in
By+(12-18)	1533	_)))) () () () () () () () ()	
Bos-(0-4)	25,60		X	Them D: R.E. Corr H.S. Chr	: 2.1.
Bos(4-10)	10/01	_		Cooler Dsc: 19 DUVE FedEx.	
Possible Hazard Identification		1	Sample Disposal (A fee may be ass	essed if samp Cust. Seal: Yes North Lab Cour	
Deliverable Requested: I, II, III, IV. Other (specify)		ngirar	Special Instructions/QC Requirements	Dosal By Lan Blue Ice (Wet) Dry, None Other.	
Emply Kit Relinquished by	Date:		ime:	Method of Shipment:	Γ
Relinquistreedby MMM	Patertime 1049	Company	Received by: Thim / Kee	Date Time 10/2/20 11/4 Bompany TA	-SA
Relinquistigd by:	Date/Time:	Company	Received by:	Company Company	
Relinquished by:	Date/Time:	Company	Received by:	DateTime: Company	Γ
Custody Seals Intact: Custody Seal No.:			Cooler Temperature(s) °C and Other Remar	ks: ********	Τ

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Eurofins TestAmerica, Seattle 5755 8th Street East Tacoma. WA 98424

Chain of Custody Record

Seurofins Environment Testing

Phone (253) 922-2310 Fax (253) 922-5047		•		America
Client Information	Brander / C. Sol	MUCUP Lead Pro: MUCUP Lewis: Nathan A	Catrier Tracking No(s):	COC No:
Client Contact: Julia Schwarz	Phone: 101-2200	C E-Mall		580-40426-12920.1 Page:
Company. Kennedy/Jenks Consultants				Page Z of C
Address: 32001-32nd Ave South, Suite 100	Due Date Requested:	Analysis R	equested	Preservation Cortes:
City. Federal Way	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - NAAA
State, Zip: WA, 98001				C - Zh Acetale 0 - AsNaO2 D - Ninc Acid P - Na2O4S
Phone: 253-572-6252(Tel) 253-383-2488(Fax)	PO#:	uz t		E - NaHSO4 0 - Na2SO3 F - MeCH R - Na2S2O3 G - AmcNor S - H2SC4
Email: juliaschwarz@kennedyjenks.com	WO #:	ол. No) О)		H - Ascorbic Acid T - TSP Dodecahydrale I - Ice U - Acetone
Project Name: Summer Storm Water	Project #: 58000247	+ 6(73) N 30 9 + 6(71)	810M	J-DI Waler V - MCAA K - EDTA W - pH 4-5 L - FDA 7 - onber (cooperat
sie. Washington	SSOW#:	etto M sonple	eonta	Other:
Samole Identification	Sample Type Sample (C=comp	Matrix Matrix (www. (www. Maran Mara	10 Tedmuk la	
	Sample Late Time G=grab) [B1=Tbase, Araty] [2] 25 (6) reliant Crido:	101	Special Instructions/Note:
Bos(10-16)	10/1/20 1423 6			
Bob(0-b)	5/60			
Bu ((-11)	04:32			
Bob(q-12)	01410			
Bo7(0-4)	£430			
Ba7(v-rz)	5550			
Bo7(9-13)	1344			
B08(v-i)	+2.50			
Bos(6-12)	0840			
Bastis Busile-15)	1330			
1203(15-18)	1347			
Possible Hazard Identification	son B Unknown Radiologica	Sample Disposal (A fee may be a	ssessed if samples are retained	longer than 1 month)
Deliverable Requested: I, II, III, IV. Other (specify)		Special Instructions/OC Requiremen	its;	e ror Months
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment.	
	1011 7000 1649	Compary Received by Imm So	1×0 atertime. $10/4/20$	1 1643 Company
telinquished by:	Date/Time:	Criminative Becelised here		Company
Custody Seals Intact: Custody Seal No :		hereinen nJ.	Date/Time:	Company
A Yes A No		Cooler Temperature(s) °C and Other Ren	harks:	
		Page 19 of 24		UCI I

Ver. 01/16/2019 10/21/2020

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Eurofins TestAmerica, Seattle 5755 Blh Street East Tacoma. WA 98424

Chain of Custody Record

Seurofins Environment Testing

Phone (253) 922-2310 Fax (253) 922-5047					MERICO
Client Information	Salt and alon / C.	NI della h M. M.		Carrier Tracking No(s):	COC No:
Client Contact:	Phone: C. a. c. a. a. a.	I E-Mail:	, Nathan A		580-40426-12920.1
Julia Schwarz Commer	1010-00-000	1 Natha	n.Lewis@Eurofinset.com		Page: 2 of C
Compary- Kennedy/Jenks Consultants			Analusia Das		
Address: 32001-32nd Ave South, Suite 100	Due Date Requested:	1000		uesteg	Preservation Codes:
City: Federal Way	TAT Requested (days):				A - HCL M - Hexane B - NaOH N - None
State: Zip: WA, 96001	1	<u>VEORE AN</u>			C - Zn Acetale 0 - AsnaO2 D - Nitric Acid P - Na2045
Prione: 253-572-6252(Tei) 253-383-2489(Fax)	PO #		u2 '		E - NarrSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchler S - H2SO4
Email: juliaschwarz@kennedyjenks.com	WO #:		сп' иі 9]		H - Ascorbic Acid T - TSP Dodecahydrate 1 - Ice U - Acetone
Project Name: Sumner Storm Water	Project #: 58000247		+ Sjejoj		J - Di water v - MCAA K - EDTA W - PH 4-5 L - EDA Z - other (spectifv)
Skie: Washington	SSOW#:		p (Ye M A93	nuoo	Other:
	Sampl	e Matrix (wreater	SMSM III IS - Arthf ,	10 ledmul	
Sample Identification	Sample Date Time G=grat	P. Onumber.	80209		Special Instructions/Note:
	Prese	vation Code; X	NX		
BOG (0-3)	9 0201 02/1/01	<u>л</u> -			
Bog(3-8)	0501				
BOR (12-14)	1221		×		
Dupol- Zuzalook	1		X		
	-				
Possible Harred Montification					
Non-Hazard C Flammable Skin Imitant Pois	son B 🗌 Unknown 🗍 Radiologic	le I	Sample Disposal (A fee may be ass	essed if samples are retaine	d longer than 1 month) ve For Monthe
Deliverable Requested: I, II, III, IV, Other (specify)			Special Instructions/QC Requirements.		DEDITION.
Empty Kit Relinquished by:	Date:	Tin	ie: 1 / /	Method of Shipment:	
	12 201 12020 1644	Company	Received by: 122 1	when the partition of the	21) 1649 Company
veinquas (cerus):	Date/Time: \	Company	Received by.	Datertime:	Company
kelinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Inlact: Custody Seal No.: A Yes A No			Cooler Temperature(s) °C and Other Remark	i.	
		Page 20 (of 24		Ver. 01/16/2019 10/2 1/202

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urofina	755 8th Sti

Eurofins TestAmerica, Seattle					Ab counciliant	
2/33 our Surect Cast Tacoma, WA 98424 Phone (253) 922-2310 Fax (253) 922-5047	Chain of Cus	stody Reco	ord		Environment Testing	
Client Information	Sampler.	Lab PM: Lewis, Nati	lan A	Carrier Tracking No(s):	COC No: 580-40426-12920 1	_
Client Centact: Julia Schwarz	Phone:	E-Mail:			Page:	
Company: Kennedvi,lenks Consultants		Livelieu.	ws@cnomsercom		Page V of €	
Address: 32001-32nd Ave South. Suite 100	Due Date Requested:		Anaiysis Keq	uested	Preservation Codes:	
Chr. Federal Way	TAT Requested (days):				A - HCL M - Hexane B - NaOH N - None	
State. Zip: WA, 98001	1				C - Zn Acetate 0 - AsNa02 D - Nitric Acid P - Na204S E - NaHSO4 0 - Na2SO3	
Phone: 253-572-6252(Tel) 253-383-2489(Fax)	PO#:		vz 'I		F - MeOH R - Na2S203 G - AmcNor S - H2SO4	
Email: Juliaschwarz@kennedyjenks.com	#0#	ol No	+ Cu, N		n - Ascoroic Add i - I SH Uodecanydrate I - Ice U - Acetane J - Di Water V - MCAA	
Project Name: Sumner Storm Water	Project#: 58000247	(10 84	eleiol		K - EDTA W - PH 4-5 L - EDA Z - other (specify)	
Site: Washington	SSOW#:	idwei N) ds	M A905	1000 Jo	Other:	
	Sample 5ample (C=cone,	Matrix Matrix Forester Horm MS/M	9 - Art\$7 ,80	r J		
Sample Identification	Sample Date Time G=grab)	BT-Thaue, A-Air) 12 B.	209	101	Special Instructions/Note:	
601(12-13)	13/4/20 1246 6	S			Ans kies in Lakelo ho	3
BIO(0-6)	1 CK 26				picart	`
810(6-12)	1680				Please with prov th	-
BI0(12-13)	1 osts				provine desported	à
Bil (0-1)	9060					
B 11(6-12)	0 716					
Bulliz-17)	6936		X			
B12(0-6)	04CY					
B12 (b-12)	\$0a]					
812 (12-15)	7201					
B13(0-6)	1 1037 1					
Possible Hazard Identification	Poison B Dunknown Radiological	San	ple Disposal (A fee may be ass Return To Client	sessed if samples are retained	d longer than 1 month) ve For Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Spe	cial Instructions/OC Requirements			
Empty Kit Relinquished by:	Date:	Time:	/ ~	Method of Shipment:		
Relinquished by	- 0111/2010 104A	a fueduo	teceived by	F Datertime: 10/4/	2 0 7/649 Company	
Reinquist d by.	Date/Three: (Company	leceived by:	10 Date/Time: / /	Сотралу	
Reinquished by:	DateTime	ompany	lecelwed by:	Date/Time:	Company	
Custody Seals Intact: Custody Seal No.:		0	ooler Temperature(s) °C and Other Rema	rks:	1.1	
		Page 21 of 2	4		Ver. 01/16/201910/24/1	2020

สมส์แหล่งสายส่วนส่วนสายเสียงได

Eurofins TestAmerica, Seattle 5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

🔅 eurofins Environment Texting

Phone (253) 922-2310 Fax (253) 922-5047					América
Client Information	Sampler:	Lab P Lewi	M: is. Nathan A	Carrier Tracking No(s):	COC No: 580-40426-12920 1
Client Contact: Julia Schwarz	Phone:	E-Mai Nath	t an.Lewis@Eurofinset.com		Page: C of L
Company: Kennedy/Jenks Consultants			Analvsis Rent	asfed	100 ft.
Address: 32001-32nd Ave South, Suite 100	Due Date Requested:				Preservation Codes:
City: Federal Way	TAT Requested (days):				A - HCL M - Hexane B - NaOH N - None C - 7x Assessor
State, Zip: WA, 98001					D - Nitric Acid P - Na2045 E - NaHSO4 D - Na203
Phone: 253-572-6252(Tel) 253-383-2489(Fax)	PO#:		۱۱, Zn		F - MeOH R - Na2S203 G - Amchlor S - H2S04
Email: juliaschwarz@kennedyjenks.com	#0#		or No + Cu, h		1 - Accordic Acid 1 - 1 SF Upoecanyorale 1 - fce U - Acetone J - Di Water V - MCAA
Project Name Sumner Storm Water	Project #: 58000247		soY) 0 4 70 84 elaloh		K - EDTA W - PH 4-5 L - EDA Z - other (specify)
Site: Washington	SSOW#:		iqmis8 vy) qsi A APDA		Other:
Samole (dentification	Sample (C	ample Matrix Type (*******. Fype s*****. Comp. Onwerket.	. botówia bieł Mi2M mrchie I - Ałtat ,8050	admun lato	
		Preservation Code:	99 Z		Special Instructions/Note:
B13(6-i2)	10/7/20 1047	5 2			
B13(12-18)	0011				
BIU(0-b)	6825				
Bi4(6-12)	erio				
BI4(12-B)	OSYE				
DUPOR-Zergoof	D-4#				
B15(0-6)	Self First				
BIS(6-12)	1 11380				
BIS(12-13)	1136				
B16(0-6)	4221				
B1b(b-12)	1245				
Possible Hazard Identification	on B 🔲 Unknown 🔲 Radi	ological	Sample Disposal (A fee may be ass	essed if samples are retain posal By Lab	ed longer than 1 month) hive For Months
Deliverable Requested: 1, II, IV, Other (specify)			Special Instructions/QC Requirements		
Empty Kit Relinquished by:	Date:	F	ime:	Method of Shipment	
Reinruptshed by	Paletine 1001 1000 164	g Company	Received by Konk	Date/Time: 10/f	1/20 1/49 COMPANY
Reighuithéoth &	DaterTime: I	Company		Date/Time: / /	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Custody Seal No.: A Yes A No			Cooler Temperature(s) ⁴ C and Other Remar	ks:	
		Page 22	01'24		Ver. 01/16/201910/2/1/20.

Eurofins TestAmerica, Seattle 5755 8th Street East Tacoma, WA 98424 Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

Curofins Environment Testing

Tacoma, WA 98424 Phone (253) 922-2310 Fax (253) 922-5047	>			n v v	niona							America	Sunsat ma	
Client Information	Sampler:			Lewis Lewis	v: s, Nathan A			Cerrier Tr	acking No(s):		COC No: 580-40426-1	1 0262	Γ	
Client Contact: Julia Schwarz	Phone:			E-Mail	: an Lewis@	Eurofinset.o	u d	Т			- age:	~ (c	T	
Company: Kennedy/Jenks Consultants							Analucic	Reditector			Job #:	5	I	
Address: 32001-32nd Ave South, Suite 100	Due Date Requested								E		Preservation	Codes:	Τ	
Ctity Federal Way	TAT Requested (day	s):									A-HCL B-NaOH	M - Hexane N - None		
State, Zip: WA, 98001									_		C - 21 ACEISTE D - Nihic Acid E - NaHSO4	0 - ASNAUZ P - Na204S Q - Na2SO3		
Phone: 253-572-6252(Tel) 253-383-2489(Fax)	Po≇:				41' Z4						F - MeOH G - Amchlor	R - Na2S200 S - H2S04		
Email: juliaschwarz@kennedyjenks,com	:# OM				+ Cn' V (0)		_		_		I - Ice J - Di Water	U - Acetone V - MCAA	scanyorae	
Project Name: Sumner Slorm Water	Project #: 58000247				eeY),ee (Yo se eleteN					cientist	k-EDTA L-EDA	W - pH 4-5 Z - other (spe	city)	
See: Washington	SSOW#:				SD (Y					noo to	Other:			
		Sample (Sample Type C=comp,	Matrix (www. seafe.	. 061011-1 01 M.S.M. 011011 I - A1747 ,80) tedmuN is				
Sample Identification	Sample Date	Time	G=grab) s	(«These Ande)	2 eos						Specia	I Instructions/	Vote:	
Bib(12-18)	10/3/20	1255	C.	S								ALL OF THE OWNER OF THE		
B17(0-i)		1313	-											
B17(6-12)		1320				_							Γ	
817(12-18)		0230			X									
				-										
										2228				
							_							
Doorlik for Usered Idoodification					-				_					
Non-Hazard Chammable Skin firitant Poiso	m B Dinknow	n [] Ra	diological		Sample	uisposal (A	a ree may b	Disposed D	if samples v l ab	are retaint	ed longer that ive For	1 month) Months		
Deliverable Requested: I, II, III, IV, Other (specify)					Special Ir	Istructions/(C Require	nents:					Ι	
Empty Kit Refinquished by:	D	ate:		1	ime:		d	/ Metho	d of Shipment				Γ	
Reinquistned by Control of Reinquistned by D	Date Time 1 U	NO IN	AN Co	Auedu	Receiv	A Maria	1	And	Date/Tin	17/02	20 164	Company		
C			3	frend	Alanau I	-La na				6		Company		
r wewdelistreed by:	uate i ime:		<u> </u>	Augur,	Receive	ed by:			Date/Tim	à		Company		
Custody Seals Intact: Custody Seal No.:					Cooler	Temperature(s	°C and Other	Remarks:			Ŧ		i.	
				Page 23	01 24	je.						Ver: 01/16/20	19 <mark>10/21</mark> /20	020

Login Sample Receipt Checklist

Login Number: 98071 List Number: 1 Creator: Hobbs, Kenneth F

Question	Answer	Comment	
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td> <td></td>	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		Income of the local division of the local di
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.	False		
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 <6mm (1/4").	N/A		
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	True		
Residual Chlorine Checked.	N/A		

Job Number: 580-98071-1

List Source: Eurofins TestAmerica, Seattle

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

Laboratory Job ID: 580-98071-2

Client Project/Site: Sumner Storm Water

For:

Manke Lumber Company Inc 1717 Marine View Drive Tacoma, Washington 98422

Attn: Mr. John McBride

Authorized for release by: 11/17/2020 5:01:03 PM

Nathan Lewis, Project Manager I (253)922-2310 Nathan.Lewis@Eurofinset.com

LINKS Review your project results through TOTOLACCESS Have a Question? Ask The Expert

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions	4
Client Sample Results	5
QC Sample Results	12
Chronicle	13
Certification Summary	15
Sample Summary	16
Chain of Custody	17
Receipt Checklists	23

Job ID: 580-98071-2

Laboratory: Eurofins TestAmerica, Seattle

Narrative

Job Narrative 580-98071-2

Case Narrative

Comments

No additional comments.

Receipt

The samples were received on 10/7/2020 4:49 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 11.5° C and 14.9° C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): B05(4-10) (580-98071-11). The container labels list B05(4-10), while the COC lists B05(6-12). The sample was logged in per COC.

Metals

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

General Chemistry

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

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Qualifiers

Metals	
Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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
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: Manke Lumber Company Inc Project/Site: Sumner Storm Water

Client Sample ID: B04(12-18) Date Collected: 10/06/20 15:33 Date Received: 10/07/20 16:49

Job ID: 580-98071-2

Lab Sample ID: 580-98071-9 Matrix: Solid

Method: 6010D - Metals (ICP)	- TCLP									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	5
Arsenic	ND		0.060		mg/L		11/10/20 09:01	11/11/20 22:26	1	
Chromium	0.029		0.025		mg/L		11/10/20 09:01	11/11/20 22:26	1	
Copper	2.0		0.060		mg/L		11/10/20 09:01	11/11/20 22:26	1	
Method: 6020B - Metals (ICP/	AS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	0
Arsenic	76	F1 F2	0.32		mg/Kg		11/09/20 12:00	11/10/20 08:00	10	Ο
Chromium	260	F2	0.65		mg/Kg		11/09/20 12:00	11/10/20 08:00	10	
Copper	290		0.65		mg/Kg		11/09/20 12:00	11/10/20 08:00	10	9
General Chemistry										
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Percent Solids	83.5		0.1		%			11/03/20 17:56	1	
Percent Moisture	16.5		0.1		%			11/03/20 17:56	1	

Client: Manke Lumber Company Inc Project/Site: Sumner Storm Water

Client Sample ID: B05(10-16) Date Collected: 10/06/20 14:23 Date Received: 10/07/20 16:49

lob	١D·	580-98071-2
100	ID.	000-0001 I-Z

Lab Sample ID: 580-98071-12 Matrix: Solid

Method: 6010D - Metals (IC Analyte	CP) - TCLP Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	5
Arsenic	ND		0.060		mg/L		11/10/20 09:01	11/11/20 22:29	1	
Chromium	ND		0.025		mg/L		11/10/20 09:01	11/11/20 22:29	1	
Copper	0.85		0.060		mg/L		11/10/20 09:01	11/11/20 22:29	1	
Method: 6020B - Metals (I	CP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	0
Arsenic	130		0.31		mg/Kg		11/09/20 12:00	11/10/20 08:49	10	Ō
Chromium	120		0.62		mg/Kg		11/09/20 12:00	11/10/20 08:49	10	
Copper	260		0.62		mg/Kg		11/09/20 12:00	11/10/20 08:49	10	9
General Chemistry										
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Percent Solids	93.2		0.1		%			11/03/20 17:56	1	
Percent Moisture	6.8		0.1		%			11/03/20 17:56	1	

Client: Manke Lumber Company Inc Project/Site: Sumner Storm Water

Job ID: 580-98071-2

Client Sample ID: B07(9-13) Date Collected: 10/06/20 13:44 Date Received: 10/07/20 16:49

Lab Sample ID: 580-98071-18 Matrix: Solid

5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.060		mg/L		11/10/20 09:01	11/11/20 22:33	1
Chromium	ND		0.025		mg/L		11/10/20 09:01	11/11/20 22:33	1
Copper	1.5		0.060		mg/L		11/10/20 09:01	11/11/20 22:33	1
Method: 6020B - Metals (IC	P/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	62		0.31		mg/Kg		11/09/20 12:00	11/10/20 08:53	10
Chromium	89		0.61		mg/Kg		11/09/20 12:00	11/10/20 08:53	10
Copper	240		0.61		mg/Kg		11/09/20 12:00	11/10/20 08:53	10
_ General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	91.4		0.1		%			11/03/20 17:56	1
Percent Moisture	8.6		0.1		%			11/03/20 17:56	1

Client: Manke Lumber Company Inc Project/Site: Sumner Storm Water

Client Sample ID: B08(15-18) Date Collected: 10/06/20 13:47 Date Received: 10/07/20 16:49

Job ID: 580-98071-2

Lab Sample ID: 580-98071-22 Matrix: Solid

wati ik. 30110

Method: 6010D - Metals (I	CP) - TCLP									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	5
Arsenic	0.35		0.060		mg/L		11/10/20 09:01	11/11/20 22:36	1	
Chromium	0.025		0.025		mg/L		11/10/20 09:01	11/11/20 22:36	1	
Copper	5.5		0.060		mg/L		11/10/20 09:01	11/11/20 22:36	1	
_ Method: 6020B - Metals (I	CP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	0
Arsenic	310		0.30		mg/Kg		11/09/20 12:00	11/10/20 08:57	10	ð
Chromium	320		0.60		mg/Kg		11/09/20 12:00	11/10/20 08:57	10	
Copper	1000		0.60		mg/Kg		11/09/20 12:00	11/10/20 08:57	10	9
General Chemistry										
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Percent Solids	81.6		0.1		%			11/03/20 17:56	1	
Percent Moisture	18.4		0.1		%			11/03/20 17:56	1	

Client: Manke Lumber Company Inc Project/Site: Sumner Storm Water

Job ID: 580-98071-2

Lab Sample ID: 580-98071-33

Matrix: Solid

5

Client Sample ID: B11(12-17) Date Collected: 10/07/20 09:36 Date Received: 10/07/20 16:49

Method: 6010D - Metals (ICP) - TCLP									
Analyte	Result Qualifie	er RL	MDL Unit	D	Prepared	Analyzed	Dil Fac		
Arsenic	ND	0.060	mg/L		11/10/20 09:01	11/11/20 22:40	1		
Chromium	ND	0.025	mg/L		11/10/20 09:01	11/11/20 22:40	1		
Copper	1.5	0.060	mg/L		11/10/20 09:01	11/11/20 22:40	1		

Client: Manke Lumber Company Inc Project/Site: Sumner Storm Water

Client Sample ID: B13(12-18) Date Collected: 10/07/20 11:00 Date Received: 10/07/20 16:49

lob	١D·	580-98071-2
100	ID.	JUU-JUU/ 1-Z

Lab Sample ID: 580-98071-39 Matrix: Solid

Method: 6010D - Metals (ICP)	- TCLP									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	5
Arsenic	ND		0.060		mg/L		11/10/20 09:01	11/11/20 22:43	1	
Chromium	ND		0.025		mg/L		11/10/20 09:01	11/11/20 22:43	1	
Copper	0.53		0.060		mg/L		11/10/20 09:01	11/11/20 22:43	1	
Method: 6020B - Metals (ICP/I	NS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	0
Arsenic	92		0.33		mg/Kg		11/09/20 12:00	11/10/20 09:01	10	Ο
Chromium	150		0.66		mg/Kg		11/09/20 12:00	11/10/20 09:01	10	
Copper	140		0.66		mg/Kg		11/09/20 12:00	11/10/20 09:01	10	9
General Chemistry										
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Percent Solids	82.4		0.1		%			11/03/20 17:56	1	
Percent Moisture	17.6		0.1		%			11/03/20 17:56	1	

Client: Manke Lumber Company Inc Project/Site: Sumner Storm Water

Client Sample ID: B16(12-18) Date Collected: 10/07/20 12:55 Date Received: 10/07/20 16:49

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Lab Sample ID: 580-98071-49 Matrix: Solid

Matrix. Solid

Method: 6010D - Metals (ICP) -	TCLP									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	5
Arsenic	ND		0.060		mg/L		11/10/20 09:01	11/11/20 22:47	1	
Chromium	ND		0.025		mg/L		11/10/20 09:01	11/11/20 22:47	1	6
Copper	0.089		0.060		mg/L		11/10/20 09:01	11/11/20 22:47	1	
_ Method: 6020B - Metals (ICP/M	S)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	6
Arsenic	21		0.32		mg/Kg		11/09/20 12:00	11/10/20 09:05	10	C
Chromium	61		0.65		mg/Kg		11/09/20 12:00	11/10/20 09:05	10	6
Copper	73		0.65		mg/Kg		11/09/20 12:00	11/10/20 09:05	10	9
General Chemistry										
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Percent Solids	82.8		0.1		%			11/03/20 17:56	1	
Percent Moisture	17.2		0.1		%			11/03/20 17:56	1	

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-342742/13-A **Client Sample ID: Method Blank** Matrix: Solid Prep Type: Total/NA Analysis Batch: 342825 Prep Batch: 342742 MB MB Beault Qualifier ы

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.25		mg/Kg		11/09/20 12:00	11/10/20 07:52	5
Chromium	ND		0.50		mg/Kg		11/09/20 12:00	11/10/20 07:52	5
Copper	ND		0.50		mg/Kg		11/09/20 12:00	11/10/20 07:52	5

Lab Sample ID: LCS 580-342742/14-A Matrix: Solid Analysis Batch: 342825

Analysis Batch: 342825							Prep Ba	atch: 342742
-	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	50.0	47.9		mg/Kg		96	80 - 120	
Chromium	50.0	48.3		mg/Kg		97	80 - 120	
Copper	50.0	49.5		mg/Kg		99	80 - 120	

Lab Sample ID: LCSD 580-342742/15-A **Matrix: Solid**

Analysis Batch: 342825

-	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	50.0	48.1		mg/Kg		96	80 - 120	0	20
Chromium	50.0	48.8		mg/Kg		98	80 - 120	1	20
Copper	50.0	49.8		mg/Kg		100	80 - 120	1	20

Lab Sample ID: 580-98071-9 MS **Matrix: Solid**

Analysis Batch: 342825

Analysis Batch: 342825									Prep Batch: 34274	2
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	76	F1 F2	32.2	116	F1	mg/Kg		126	80 - 120	_
Chromium	260	F2	32.2	319	4	mg/Kg		186	80 - 120	
Copper	290		32.2	374	4	mg/Kg		258	80 - 120	

Lab Sample ID: 580-98071-9 MSD Matrix: Solid

Matrix: Solid									Prep Ty	pe: Tot	al/NA
Analysis Batch: 342825									Prep Ba	atch: 34	42742
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	76	F1 F2	32.0	232	F1 F2	mg/Kg		490	80 - 120	67	20
Chromium	260	F2	32.0	415	4 F2	mg/Kg		489	80 - 120	26	20
Copper	290		32.0	441	4	mg/Kg		469	80 - 120	16	20

Lab Sample ID: 580-98071-9 DU Matrix: Solid

Analysis Batch: 342825							Prep Batch: 3	42742
-	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Arsenic	76	F1 F2	88.5		mg/Kg		16	20
Chromium	260	F2	275		mg/Kg		6	20
Copper	290		309		mg/Kg		6	20

Job ID: 580-98071-2

Prep Type: Total/NA

Prep Type: Total/NA Prep Batch: 342742

Prep Type: Total/NA

Client Sample ID: B04(12-18)

Client Sample ID: B04(12-18)

Client Sample ID: B04(12-18)

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

6

Client Sample ID: B04(12-18) Date Collected: 10/06/20 15:33 Date Received: 10/07/20 16:49

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
TCLP	Leach	1311			342722	11/09/20 09:50	ART	TAL SEA
TCLP	Prep	3010A			342797	11/10/20 09:01	ART	TAL SEA
TCLP	Analysis	6010D		1	343030	11/11/20 22:26	ТМН	TAL SEA
Total/NA	Prep	3050B			342742	11/09/20 12:00	JCP	TAL SEA
Total/NA	Analysis	6020B		10	342825	11/10/20 08:00	FCW	TAL SEA
Total/NA	Analysis	2540G		1	342341	11/03/20 17:56	S1S	TAL SEA

Client Sample ID: B05(10-16) Date Collected: 10/06/20 14:23 Date Received: 10/07/20 16:49

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
TCLP	Leach	1311			342722	11/09/20 09:50	ART	TAL SEA
TCLP	Prep	3010A			342797	11/10/20 09:01	ART	TAL SEA
TCLP	Analysis	6010D		1	343030	11/11/20 22:29	ТМН	TAL SEA
Total/NA	Prep	3050B			342742	11/09/20 12:00	JCP	TAL SEA
Total/NA	Analysis	6020B		10	342825	11/10/20 08:49	FCW	TAL SEA
Total/NA	Analysis	2540G		1	342341	11/03/20 17:56	S1S	TAL SEA

Client Sample ID: B07(9-13) Date Collected: 10/06/20 13:44 Date Received: 10/07/20 16:49

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
TCLP	Leach	1311			342722	11/09/20 09:50	ART	TAL SEA
TCLP	Prep	3010A			342797	11/10/20 09:01	ART	TAL SEA
TCLP	Analysis	6010D		1	343030	11/11/20 22:33	ТМН	TAL SEA
Total/NA	Prep	3050B			342742	11/09/20 12:00	JCP	TAL SEA
Total/NA	Analysis	6020B		10	342825	11/10/20 08:53	FCW	TAL SEA
Total/NA	Analysis	2540G		1	342341	11/03/20 17:56	S1S	TAL SEA

Client Sample ID: B08(15-18) Date Collected: 10/06/20 13:47 Date Received: 10/07/20 16:49

-	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
TCLP	Leach	1311			342722	11/09/20 09:50	ART	TAL SEA
TCLP	Prep	3010A			342797	11/10/20 09:01	ART	TAL SEA
TCLP	Analysis	6010D		1	343030	11/11/20 22:36	ТМН	TAL SEA
Total/NA	Prep	3050B			342742	11/09/20 12:00	JCP	TAL SEA
Total/NA	Analysis	6020B		10	342825	11/10/20 08:57	FCW	TAL SEA
Total/NA	Analysis	2540G		1	342341	11/03/20 17:56	S1S	TAL SEA

Job ID: 580-98071-2

Lab Sample ID: 580-98071-9

Lab Sample ID: 580-98071-12

Matrix: Solid

Matrix: Solid

Lab Sample ID: 580-98071-18 Matrix: Solid

Lab Sample ID: 580-98071-22

Eurofins TestAmerica, Seattle

Matrix: Solid

Client Sample ID: B11(12-17) Date Collected: 10/07/20 09:36 Date Received: 10/07/20 16:49

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
TCLP	Leach	1311			342722	11/09/20 09:50	ART	TAL SEA
TCLP	Prep	3010A			342797	11/10/20 09:01	ART	TAL SEA
TCLP	Analysis	6010D		1	343030	11/11/20 22:40	ТМН	TAL SEA

Client Sample ID: B13(12-18) Date Collected: 10/07/20 11:00 Date Received: 10/07/20 16:49

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
TCLP	Leach	1311			342722	11/09/20 09:50	ART	TAL SEA
TCLP	Prep	3010A			342797	11/10/20 09:01	ART	TAL SEA
TCLP	Analysis	6010D		1	343030	11/11/20 22:43	ТМН	TAL SEA
Total/NA	Prep	3050B			342742	11/09/20 12:00	JCP	TAL SEA
Total/NA	Analysis	6020B		10	342825	11/10/20 09:01	FCW	TAL SEA
Total/NA	Analysis	2540G		1	342341	11/03/20 17:56	S1S	TAL SEA

Client Sample ID: B16(12-18) Date Collected: 10/07/20 12:55 Date Received: 10/07/20 16:49

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
TCLP	Leach	1311			342722	11/09/20 09:50	ART	TAL SEA
TCLP	Prep	3010A			342797	11/10/20 09:01	ART	TAL SEA
TCLP	Analysis	6010D		1	343030	11/11/20 22:47	ТМН	TAL SEA
Total/NA	Prep	3050B			342742	11/09/20 12:00	JCP	TAL SEA
Total/NA	Analysis	6020B		10	342825	11/10/20 09:05	FCW	TAL SEA
Total/NA	Analysis	2540G		1	342341	11/03/20 17:56	S1S	TAL SEA

Laboratory References:

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

Job ID: 580-98071-2

Lab Sample ID: 580-98071-33

Lab Sample ID: 580-98071-39

Lab Sample ID: 580-98071-49

Matrix: Solid

Matrix: Solid

Matrix: Solid

Client: Manke Lumber Company Inc Project/Site: Sumner Storm Water Job ID: 580-98071-2

Laboratory: Eurofins TestAmerica, Seattle Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. Authority Program **Identification Number** Expiration Date Washington State C553 02-18-21 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

5

Sample Summary

Client: Manke Lumber Company Inc Project/Site: Sumner Storm Water

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-98071-9	B04(12-18)	Solid	10/06/20 15:33	10/07/20 16:49	
580-98071-12	B05(10-16)	Solid	10/06/20 14:23	10/07/20 16:49	
580-98071-18	B07(9-13)	Solid	10/06/20 13:44	10/07/20 16:49	
580-98071-22	B08(15-18)	Solid	10/06/20 13:47	10/07/20 16:49	
580-98071-33	B11(12-17)	Solid	10/07/20 09:36	10/07/20 16:49	
580-98071-39	B13(12-18)	Solid	10/07/20 11:00	10/07/20 16:49	
580-98071-49	B16(12-18)	Solid	10/07/20 12:55	10/07/20 16:49	

Chain of Custody Record

💸 eurofins Environment Testing America

5755 8th Street East Tacoma, WA 98424 Phone (253) 922-2310 Fax (253) 922-5047

Client Information	Sampler:	alou Lisch	WOR Lab Ph	M: Nathan A		Carrier Tracking No(s):	COC No:
Client Contact:	Phone: 1 Co	262 230	E-Mail	, (v au) <i>a</i> 1274		-	Page: 4
Julia Schwarz	l une-	all-sh	ノイ Natha	an.Lewis@Euro	ofinset.com		Page of (
Kennedy/Jenks Consultants					Analysis Re	uested	300 π .
Address: 32001-32nd Ave South, Suite 100	Due Date Requeste	ed:					Preservation Code
City:	TAT Requested (da	iys):					A-HCL LOC: 580 B-NaOH
Federal Way State, Zip:							C - Zn Acetate 38071
WA, 98001							E - NaHSO4
Phone: 253-572-6252(Tel) 253-383-2489(Fax)	PO #:			5	I I I I I I I I I I I I I I I I I I I		G_Amchlor
Êmail:	WO #:		·····				forbic Ar e
uliaschwarz@kennedyjenks.com Project Name:	Project #						/ater V - two. ↓ FA W - pH 4-5
Sumner Storm Water	58000247		2	Meta			C Z - other (specify)
Site: Alashinatan	SSOW#:			D C C	580-98071 C	hain of Custody	
Washington							
		Sample	Matrix	4714			
		Sample (C=com	S=solid, O=waste/oil,	10B, 7		Ž A	
Sample Identification	Sample Date	Time G=grab) BT=Tissue, A=Air)	603 6		3	Special Instructions/Note:
		Preser	vation Code:				
Bol (0-6)	10/6/20	1147 6	S				NO SULLOS in sAMULY,
Bol(6-12)		1152		X			name, ster
B02(0-6)		/120					Pleasen of G. Prov to
Bu2(6-12)		1137					Jeroscal
B03(0-6)		1102				Therm ID:	RB can 14 90 in 15 40
B03(6-12)		1110				Cooler Dsc:	Lg Bloe
Ro4/1-6)		1010				Packing:	FedEx:
Participan		1.11	+			Cust. Seal:)	esNo Lab Cour:
B04(6-12)		1040		+ + + + + + + + + + + + + + + + + + +		Blue Ice, We	Dry, None Other: Cliffa
12-18)		1533				I. J	ling and the second
BOST(0-4)		0956				Therm. ID:	<u>IRE</u> Cor: <u>11.5</u> ° Unc: <u>12.1</u> °
Pos(4-10)		1010				Cooler Dsc:	FedEx:
ossible Hazard Identification	<u>k</u>		<u> </u>	Sample Dist	bosal (A fee may be as	sessed if samp	UPS:
Non-Hazard Flammable Skin Irritant	Poison B 🛄 Unkno	wn 🗖 Radiologic	al	Return	To Client	sposal By Lab	Lab Cour:
eliverable Requested: I, II, III, IV, Other (specify)				Special Instru	uctions/QC Requirement	s: Blue Ice, We	Other:
mpty Kit Relinquished by:	[C	Date:	Ťi	ime:	Q /	Method of Shipment:	,
elinquishedby:	Date/Time:	1049	Company	Received by	×	Date/Time: 11/14	120 1/ L Gompany IA So
elinquished by:	Date/Time:		Company	Received by	your fee	Pate/Time:	Company
elinquished by:	Date/Time:		Company	Received by	y:	Date/Time:	Company
Control Control Internet			J				
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No				Cooler Tem	perature(s) °C and Other Rem	arks:	
			12000 17				/2020

5755 8th Street East Tacoma, WA 98424 Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

Seurofins Environment Testing

America

10

Client Information	Sample: G. SIDNTal 97, / (-Schvor Levis, Nat									**		Car	rier Tr	ackin	g No(s	;):			COC N):					
Client Contact: Julia Schwarz	Phone:	1001-	SAFUL	E-Ma	ail:			· · · · · · · · · · · · · · · · · · ·				1							Page:	1426-12	2920	1			
Company:	June	<u>Ne l'</u>	<u> </u>		nan.Le	wis@t	EUronir	nset.c	om	***		<u> </u>							Page	<u> </u>	of		ت		_
Address:	Due Date Reques	sted:				a T			Anal	ysis	Re	que	stec	1											
32001-32nd Ave South, Suite 100																1			Preser	/ation C	odes	; :			
Federal Way	TAT Requested (days):												1	l				A - HCL B - NaC	н	1 1	A - He: I - Nor	ane Ie		
State, Zip: WA 98001	1						Í			ĺ									C - Zn A D - Nitri	cetate c Acid	C F) - Asi) - Na2	laO2 O4S		
Phone:	PO #:					-					ļ								E - NaH F - MeC	504 H	C F) - Na2 ! - Na2	SO3 S2O3		
253-572-6252(Tel) 253-383-2489(Fax)	NIO #				0	Ni, Z								[G - Amo H - Ascr	hlor Irbic Acic	S I T	- H25	O4 Dodec:	ahvdrate	
juliaschwarz@kennedyjenks.com	VVO #:				or N	ţ, ţ									ĺ				i - Ice J - DI W	ater	U V	- Ace	tone		
Project Name: Sumner Storm Water	Project #: 58000247				See 1	stals				ĺ								Iners	K - EDT	4	W Z	/ - pH	4-5 (eneci	iff al	
Site:	SSOW#:				1ple (Yea	W V		ſ	ĺ									onta	Other		-	- 0010	(apeca	(¥)	
washington		.	1	1	San GBP	- RCF											ĺ	9.0							
			Sample	Matrix	tere: MS/	471A												IBqu							
		Sample	iype (C≖comp,	S=solid. D=waste/oit.	ld Fil fore	08, 7												R							
Sample Identification	Sample Date	Time	G=grab)	BT=Tissue, A=Air)	FI0	602												Tota	S	pecial	Instr	uctio	ns/No	ote:	
Partiali			Preserv	ation Code:	$\Delta \!$	N								-				\ge							
1505(10-16)	10/1/20	1423	6	5																					
BOG(0-6)		0915																		Aurol					
Bob(6-12)		0933																		<u>~</u>					
BOG(4-12)		1410																							-
BOTIO-WS		0547	1																	<u> </u>		·			-
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BO7(9-13)		12111	-		╉╌┼				$\left\{ -\right\}$								_	_	······						-
BOS(a-i)		1399			╶╂─┤				$\left[- \right]$		-+		-		_							·			_
Parti (D)		US UF							┞											<u></u>					
BOS(D=C)		0840						\downarrow									and a second								
1508(15 BUS(12-15)		1330																							
1308(15-18)		1347															STATE OF THE OWNER O								1
Non Hozard Elemmetric Strin televal					Sam	ple Di	isposa	al (A	fee m	iay b	e as:	sess	ed if	san	ples	are	reta	ined	llonger	than 1	то	nth)			1
Deliverable Requested: I, II, III, IV, Other (specify)	n B - Unkne	own R	adiological		Spec	Retu	urn To structio	Client	t C Rec		Dis	spos	al By	Lab		L	A/	chiv	e For		/	Montl	s		
mpty Kit Relinguished by:	······	Date:		17					~~~~		inent:														
elinquiched by:	Date/Time:	Date.	1 1	Company.	Inte:	eceiver	t huc		<u></u>	<u>></u>	-	Ľ	/einod	of SP	ipmer	nt:		<u>,</u>							ļ
	10/1/20	<u>20 10</u>	49	Fis			بر .ون د /	Tom		>	la.	\checkmark	\searrow	Ľ))	me: 10)/7	2	0 1	649	Con	npany			
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elinguished by:	Date/Time: Company			R	eceived	d by:							D	ate/Tir	ne:					Соп	pany				
Custody Seals Intact: Custody Seal No.:			L		- Ic	ooler Te	emperat	hure/e) ^c	°C and	Other	Rem	rke -			į							, 			
Δ Yes Δ No					ľ				a and	Julei	nema			÷.					1						l

5755 8th Street East Tacoma, WA 98424 Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

Environment Testing America

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Client Information	Sampler 61-6	ion	mor	1550	ewis, N	athan	A					Carrie	r Traci	ung No	o(s):			COC No 580-40	,:)426-12	2920.	1			
Client Contact: Julia Schwarz	Phone:	6.2	109-2	3302		Mail: athan.L	ewisic	δEuro	finset	com									Page: Page:	2	of		(
Company: Kennedy/Jenks Consultants					<u> </u>	T		,,		A					·			*	Job #:		01		<u>v</u>	
Address:	Due Date	e Request	led:]		Ana	lysis	Req	ues	ted				1000000	Preser	vation (odes	-		
32001-32nd Ave South, Suite 100	TATON																		A - HCL	auonio	Noues	'. 1 - Hes	ane	
Federal Way	I'AI Keq	uestea (a	ays):										ĺ			ĺ			B - NaC	H	N	I - Non	6	
State, Zip: WA, 98001																			D - Nitri E - NaH	: Acid SO4	P	- Na2 - Na2	04S SO3	
Phone: 253-572-6252(Tel) 253-383-2489(Fax)	PO #:						۲Ż												F - MeC G - Amo	H hlor	R S	- Na2 - H2S	S2O3 O4	
Email:	WO #:						U n												H - Asco I - Ice	rbic Acid	T U	- TSP - Acel	Dodec; one	ahydrate
Project Name:	Project #						+ si						ĺ					813	J - DI W K - EDT	ater A	V W	- MCA - pH	A 4-5	
Sumner Storm Water	580002	47				N.	Veta											aln	L - EDA		Z	othe	(specif	fy}
Site: Washington	SSOW#:	SSOW#:														of con	Other:							
			Sample	Sample Type (C=comp	Matrix (W=water, S=solid, 0=weste/off,	eld Filtered	20B, 7471A - I											tal Number (
Sample Identification	Sample	e Date	Time	G≕grab) Precen	BToTissue, A=/		. 3	5.1941 (S					80 (B) 22	253.0	0050	20 20/020	2	2	S	pecial	Instr	uctio	ns/No	ote:
BO9 (0-3)	10/1	20	1020	G		Ĥ												X						
B09(3-8)			1030																		******			
B04 (12-14)			1522				X			-						-	\square							
DUPOI- ZOZOLOOG							Х								····									
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Possible Hazard Identification		'n				Sa	mple	Dispo	osal (/	A fee r	nay t	e ass	esse	d if s	ample	es ar	e reta	aineo	llonge	than 1	1 moi	nth)		
Non-Hazard Flammable Skin Irritant Pois	on B 🖵	J Unkno	wn ^L R	adiologica	al 🛛		J Re	eturn 1	To Clie	nt	L	 Dist	oosa	By L	ab	Ľ		rchiv	e For		1	Montl	ns	
Jenverable Requested: I, II, III, IV, Other (specify)						Sp	ecial I	nstruc	tions/0	QC Re	quire	ments:												
mpty Kit Relinquished by:		C	Date:			Time:		- 1			0	1	Me	thod of	Shipm	ent:				-				
ielinguished by	Date Time:	1120	20 10	049	Company		Receiv	ed by:	,	Ton	J)	<u></u>	in.	k	Date	(Time:	10/	7/2	()	1649	Con	npany		
elinquispettoy:	Date/Time:	1			Company		Receiv	red by:			_	>	6	7	Date/	Time:	<u> </u>	/-	<u>~</u>		Con	npany		
elinquished by:	Date/Time:				Company		Receiv	ed by:	·····		_ <u>L</u>				Date/	Time:					Con	npany		
Custody Seals Intact: Custody Seal No.:	.						Cooler	Tempe	erature(s) °C and	d Other	Remari	ks:		<u></u>			·			<u> </u>		÷	
						10 Y	L																	. .

Chain of Custody Record

Seurofins Environment Testing America

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5755 8th Street East Tacoma, WA 98424 Phone (253) 922-2310 Fax (253) 922-5047

Client Information	Sampler:			Lab P	M: ic Not	han A	Carrier Tracking No(s):											COC No:	0.1		٦
Client Contact:	Phone:		<u></u>	E-Mai	i):		`		·····									Page:	J. 1		-
Julia Schwarz				Nath	an.Le	wis@	Eurof	finset.c	om									Page U c	<u>if ki</u>		_
Kennedy/Jenks Consultants									Analy	/sis F	Req	uest	ed					JOD #:			
Address: 32001-32nd Ave South, Suite 100	Due Date Reques	ited:		*******														Preservation Cod	es:		1
City: Federal Way	TAT Requested (d	days):																A - HCL B - NaOH C - Zn Acetate	M - Hexane N - None O - AsNaO2		
State. Zip: WA, 98001																		D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3		
Phone: 253-572-6252(Tel)	PO #:					II, Zn		ĺ										F - MeOH G - Amchlor	R - Na2S2O3 S - H2SO4	l Anthuricato	
Email: juliaschwarz@kennedyjenks.com	WO #:				or No	L Cu, N										and a second		I - Ice J - DI Water	U - Acetone V - MCAA	canyorate	
Project Name: Sumner Storm Water	Project #: 58000247				5 (Yes	letals -											alnen	K - EDTA L - EDA	W - pH 4-5 Z - other (spe	cify)	
Site: Washington	SSOW#:				ample SD (Ye	CRA N											et com	Other:			
		Sample	Sample Ma Type (we (C=comp, O=wea	utrix water, solid, istefoil,	eid Filtered S erform MSAM	120B, 7471A - R										r	stal Number o	••••••••••••••••••••••••••••••••••••••			
Sample Identification	Sample Date	Time	G=grab) BT=Tiss Preservation C	ue, A¤Air}	i a VV	8											Ĕ	Special Ins	tructions/N	Note:	
Bo1(12-18)	10/7/20	1246	6 5		Ŷ	19												hos maes	in (an	plen	am
B10(0-6)		0826			╞									1				<u> </u>	piear	{ ,	1
810(6-12)		0834												1				Please h	it hy	orivi	4
BID(12-18)		0845																Sa	myte d	ispos	fe.
BIL(O-L)		0906																			
B11(6-12)	<u> .</u>	0916			_				ļ		_		_				_				
BII(12-17)	<u> </u>	6936				X							_	1							_
B12(0-6)	 	0954											_								4
B12 (6-12)		1008			_																4
$\frac{B_{12}\left(12-18\right)}{B_{12}\left(12-18\right)}$		1022							$\left \right $		-									- <u>.</u>	4
BIG(D-6) Rossible Harard Identification	ŀ	1037-											ط نا م								4
Non-Hazard Flammable Skin Irritant Pois	on B 🛄 Unkn	iown 🗆 F	adiological				turn 1	To Clie	nt] Dis	posal	By La	anipie ab			chiv	e For	Months		
Deliverable Requested: I, II, III, IV, Other (specify)					Spe	cial li	nstruc	ctions/G	C Rei	quirem	nents	:									
mpty Kit Relinquished by:		Date:		Ĩ	Гime:					<u> </u>	1	Me	thod of	Shipm	ent:						1
telinguished by	Date/Time:	10 ID	ZA Compar	iy		Receiv	ed by:		5n-	S	an	F	$\overline{\langle \cdot \rangle}$	Date/	Time: j	10/7	7	20 1649	Company		1
telinquished by:	Date/Time:		Compar	iy .		Receiv	ed by:		(-	70	\mathcal{I}	Date/	Time:	<i>,</i> ,	,	1	Company]
telinguished by:	Date/Time:		Compan	iy		Receiv	ed by:							Date/	Time:				Company		1
Custody Seals Intact: Custody Seal No.:	· · · ·		i.			Cooler	Тетр	erature(s) °C and	l Other I	Rema	rks:		<u>.</u> 	• •			L	N. 4.	·····	1
			Pa	ge 20) of 2	23-													Ver: ()1/16/20	$\frac{14/17}{110}$	1/20

Eurofins TestAmerica, Seattle 5755 8th Street East

Chain of Custody Record

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Environment Testing America

Tacoma, WA 98424 Phone (253) 922-2310 Fax (253) 922-5047

Client Information	Sampler:		PM:					Ca	arrier Tra	cking	No(s):			COC No:	20.4	
Client Contact:	Phone:		E-M	wis, na Aail:	than A			- \							580-40426-129. Page:	20.1
Julia Schwarz			Na	ithan.Le	ewis@l	Eurofin	set.com								Page 5	of 6
Company: Kennedy/Jenks Consultants							An	alvsis	Reau	ested					Job #:	
Address: 32001-32nd Ave South, Suite 100	Due Date Requested	d:		T			TT						T		Preservation Co	des:
City:	TAT Requested (day	/s):													A - HCL B - NaOH	M - Hexane N - None
State, Zip:	-														C - Zn Acetate D - Nitric Acid	0 - AsNaO2 P - Na2O4S
WA, 98001	IDO #-			_											E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3
253-572-6252(Tel) 253-383-2489(Fax)	F 0 H.				Ni, Zr										G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate
Email: juliaschwarz@kennedyjenks.com	WO #:			N D	Ċ,										I - Ice J - DI Water	U - Acetone V - MCAA
Project Name:	Project #:			25	tals							ĺ		nen	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Site:	SSOW#:			\ge	KA Me									conta	Other:	
Washington		T		- San	- RCF									r of		
		Sample	Matrix	K SK	471A									mbe		
		Sample (C=comp	(₩≊water, S≃solid, Oswaste/oil.	Id Fi	68, 7									al Ni		
Sample Identification	Sample Date	Time G=grab)	BT=Tissue, A=Air		602									P	Special In	structions/Note:
			ration Code:		N		44						4	\mathbf{X}		
B13(6-12)	10/7/20	1047 G	5													
B13(12-18)		1100														
B14(0-6)		6825														
B14/6-12)		OKYO														
B14(12-18)		0548							1							
DUP02-2029007		477-B														
B15(0-6)		425 03		Π												
B15(6-12)	4	43600														
BIS(12-18)	ji ji	136														
BIG (0-6)	j	236		Π												
BIb(b-i2)) 1	245		Π												
Possible Hazard Identification		,		Sa	mple l	Dispos	al (A fe	e may l	be asse	ssed in	f san	ples	are re	taine	d longer than 1	month)
Non-Hazard Flammable Skin Irritant Pois	on B Unknow	vn 🦳 Radiologica	al		Re	turn To	Client	بــــــــــــــــــــــــــــــــــــ	Disp	osal By	/ Lab			Arch	ive For	Months
				Spe	eciai Ir	ISTUCT	SUS (SUS)	Require	ments:							
Empty Kit Relinquished by:	Da	ate:	.	Time:			K			Methor	d of Sł	ipment		,		
Relinguished by:	Date/Time:	0 1699	Company		Receiv	ed by: 107	r K	Jan	5/	<u>_</u>	C	ate/Tim	10	/7/	20 1/49	Company .
Religquit ded by	Date/Time:		Company		Receiv	ed by:		L I	\mathcal{O}		0	ate/Tim	ie: 7	-7		Company
Relinquished by:	Date/Time:		Company		Receiv	ed by:				· · ·	Ć	ate/Tim	e:			Company
Custody Seals Intact: Custody Seal No.:	Custody Seals Intact: Custody Seal No.:					Tempera	ture(s) °C	and Othe	r Remark	s:				· · · ·	· · ·	i
		L.,														

Eurofins TestAmerica, Seattle 5755 8th Street East

Chain of Custody Record

America

Tacoma, WA 98424 Phone (253) 922-2310 Fax (253) 922-5047

Cliept Information	Sampler:		b PM: wis Na	than ∆				C	arrier Tr.	acking i	No(s):			COC No: 580-40426-1291	20.1		
Client Contact:	Phone:		E-N	Mail:											Page: /	/	
Julia Schwarz			Na	athan.Le	wis@l	Eurofins	et.com								Page 🗸	of 🐓	
Kennedy/Jenks Consultants							An	alysis	Requ	estec	I				J00 #:		
Address: 32001-32nd Ave South, Suite 100	Due Date Requested	:							TT						Preservation Con	les:	
City: Federal Way	TAT Requested (day	/s):										ţ			A - HCL B - NaOH C - Zn Acetate	M - Hexane N - None O - AsNaO2	
State, Zip: WA, 98001															D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3	
Phone: 253-572-6252(Tel) 253-383-2489(Fax)	PO #:]。	Ni, Zn										F - MeOH G - Amchlor H - Ascorbic Acid	R - Na2S2O3 S - H2SO4 T - TSP Dodecahyd	rate
Email: juliaschwarz@kennedyjenks.com	WO #:			s or N	; + Cu,	ĺ								e	I - Ice J - DI Water K - EDTA	U - Acetone V - MCAA W - pH 4-5	
Project Name: Sumner Storm Water	Project #: 58000247				Metals									ntaine	L - EDA	Z - other (specify)	
Site: Washington	SSOW#:			Samp	RCRA									r of co	Other:		
		Sample Sample (C=comp	Matrix (Wewater, S=solid, O=waste/oil,	eld Filtered erform MSA	208, 7471A									otal Numbe			
Sample Identification	Sample Date	Time G=grab)	BT=Tissue, A=Air		3						8426			22	Special In	structions/Note:	
BIL(12-18)	10/7/20	1255 (2		Ĥ										\square			
BI7(0-6)		1313	1 T	11-	╋					-						,,	
B17(6-12)		1320													· · .		
B17(12-18)		1330			K												
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				┼┼─	$\left\{ - \right\}$										··· ·· · · · · · · · · · · · · · · · ·		<u></u>
				╂┨──	$\left \right $												-
															<u></u>		
ssible Hazard Identification Non-Hazard I Flammable Skin Irritant Poison B Unknown Radiological					mple [Disposa	I <mark>(A fe</mark> Client	e may l	be asse	ssed i	fsam vlah	ples a	re reta	aineo Irchè	d longer than 1 i	month) Months	
Deliverable Requested: I, II, III, IV, Other (specify)				Spe	ecial In	structio	ns/QC I	Require	ments:	usar D	, Lau		^	a Graiv			
Empty Kit Relinquished by:	Da	ate:		Time:				Q	1	Metho	d of Sh	ipment:					
Relinquished by	Date/Time:/1/W	NO 149A	Company	·	Receive	ed by:	m		Jar	J.		ate/Time	20/	1 /2	20 1649	Company	
Relinquished by:	Date/Time:		Company		Receive	ed by:	(-2	7)[ate/Time	* /	4		Company	-1
Relinquished by:	Date/Time:		Company		Receive	ed by:					D	ate/Time	2			Company	
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No	dy Seals Intact: Custody Seal No.: Yes Δ No									s:				• •		· · · · · · · · · · · · · · · · · · ·	
Pane					72-		******				*****						

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Client: Manke Lumber Company Inc

Login Number: 98071 List Number: 1 Creator: Hobbs, Kenneth F

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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.	False	
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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 580-98071-2

List Source: Eurofins TestAmerica, Seattle