

# **TIME-CRITICAL REMOVAL ACTION REPORT**

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*Onalaska Wood Pyrolysis  
Onalaska, Lewis County, Washington*

*SSID: 10TH*

*Contract No.: 68HE0720D0005*

*Task Order No.: 68HE0721F0069*



Prepared for:

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## LIST OF ATTACHMENTS\*

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- Attachment A Digital Photograph Report
- Attachment B Site Logbooks
- Attachment C 2021 TCRA Waste Sample Data
- Attachment D Laboratory Data Packages
- Attachment E Data Quality Assurance Review Memoranda

**\*Attachments listed are provided in this portable document format (PDF) report.**

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- Figure 1-1 Site Location Map
- Figure 1-2 Site Area Map
- Figure 2-1 Site Plan

**\*Figures listed are provided in this PDF report.**

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**LIST OF ACRONYMS**

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AST	aboveground storage tank
CFR	Code of Federal Regulations
CJC	CJC West, LLC
COC	contaminant of concern
CY	cubic yard
DMP	Data Management Plan
DOT	U.S Department of Transportation
EPA	U. S. Environmental Protection Agency
Ecology	Washington State Department of Ecology
EMB	Emergency Management Branch
EQM	Environmental Quality Management
ERRS	Emergency and Rapid Response Services
HASP	Health and Safety Plan
HAZCAT	Hazard Categorization
ID	Identification
mg/m <sup>3</sup>	milligrams per cubic meter
NaOH	Sodium hydroxide
NCP	National Contingency Plan
o-cresol	2-methyphenol
OSC	On-Scene Coordinator
OWE	Onalaska Wood Energy, LLC
PAH	polycyclic aromatic hydrocarbons
p-cresol	4-methyphenol
PDF	portable document format
PM	particulate matter
PPE	personal protective equipment
RCRA	Resource Conservation and Recovery Act
RDMP	Regional Data Management Plan

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**LIST OF ACRONYMS (CONTINUED)**

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RML	Removal Management Level
RSE	Removal Site Evaluation
SAP	Sampling and Analysis Plan
Site	Onalaska Wood Pyrolysis Site
SEMS	Superfund Enterprise Management System
SSID	Site Spill Identification
START	Superfund Technical Assessment and Response Team
SVOC	semi volatile organic compound
TCLP	Toxicity Characteristic Leaching Procedure
TCRA	Time-Critical Removal Action
TWA	time-weighted average
VOC	volatile organic compound
Water District	Lewis County Water District #2
WESTON®	Weston Solutions, Inc.

## EXECUTIVE SUMMARY

The U.S. Environmental Protection Agency (EPA) tasked Weston Solutions, Inc. (WESTON®) the Superfund Technical Assessment and Response Team (START) to provide technical support and documentation of on-site activities conducted by EPA and Emergency Response and Rapid Services (ERRS) contractor, Environmental Quality Management (EQM), during the Time-Critical Removal Action (TCRA) at the Onalaska Wood Pyrolysis Site (Site) located in Onalaska, Lewis County, Washington. This work was completed under START Contract No. 68HE0720D0005 and Task Order No. 68HE0721F0069. The Superfund Enterprise Management System (SEMS) Identification (ID) number for the Site is WAN001020623. The TCRA was initiated following the EPA Removal Site Evaluation (RSE) conducted during two site visits in March and April 2021 where waste sample analytical results indicated the presence of site-specific contaminants of concern (COCs). The COCs included benzene, 2-methyphenol (o-cresol) and 4-methyphenol (p-cresol), along with other polycyclic aromatic hydrocarbons (PAHs) that exceeded EPA Resource Conservation Recovery Act (RCRA) Hazardous Waste criteria, EPA Removal Management Levels (RMLs), and/or Washington State Dangerous Waste regulations.

TCRA activities were completed between 14 June 2021 and 29 July 2021. START conducted perimeter and on-site air monitoring, collected samples for waste characterization, compiled logbook and photographic documentation of Site conditions and ERRS removal activities. START conducted air monitoring throughout the removal action for particulate matter (PM) and toxic vapors using TSI DustTrak™ II 8530 particulate monitors and AreaRAE® monitors, respectively. No PM or toxic vapors exceeded the Site-specific action levels during the removal action activities.

The following waste was consolidated, processed, and disposed of by EPA during the TCRA:

- A total of 68,972 gallons of liquid RCRA Hazardous Waste
- A total of 22,800 gallons of liquid Washington State Dangerous Waste
- A total of 450 cubic yards (CY) of solid RCRA Hazardous Waste (260 CY of solid waste and 190 CY of contaminated debris)

- Based on First Step hazardous categorization results of 193 unknown containers located on-site, 15 different Department of Transportation (DOT) waste streams were generated and bulked into 24 containers.
- An estimated 140 CY of scrap metal was recycled.

START prepared this report to describe the technical scope of work completed under the TCRA conducted at the Onalaska Wood Pyrolysis Plant site. The EPA On-Scene Coordinator (OSC) was Brooks Stanfield.

# 1 INTRODUCTION

The U.S. Environmental Protection Agency (EPA) tasked Weston Solutions, Inc. (WESTON®), under Superfund Technical Assessment and Response Team (START) Contract No. 68HE0720D0005 and Task Order No. 68HE0721F0069, to provide technical support and documentation during Time-Critical Removal Action (TCRA) activities conducted at the Onalaska Wood Pyrolysis Site (Site) located at 1674 State Highway 508 in Onalaska, Lewis County, Washington. A Site Location Map and Site Area Map are presented as Figures 1-1 and 1-2, respectively. The Superfund Enterprise Management System (SEMS) Identification (ID) for the Site is WAN001020623. EPA was supported by START and the Emergency Rapid Response Service (ERRS) contractor, Environmental Quality Management (EQM), during the TCRA activities that began in June 2021 and ended in July 2021. This report has been prepared to describe the technical scope of work completed during the Onalaska Wood Pyrolysis TCRA carried out by EPA.

## 1.1 PROJECT OBJECTIVES

The primary objectives of this TCRA were to eliminate the threat to public health and the environment, as related to criteria set forth in *40 Code of Federal Regulation (CFR) 300.415(b)*, posed by a release of liquid hazardous and solid waste associated with the Site.

The TCRA was initiated based on previous investigations conducted by the Washington Department of Ecology (Ecology), and the 2021 Removal Site Evaluation (RSE) (WESTON, 2021a). The previous investigations identified concentrations of volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs), including wood tar and wood vinegar, which are designated as Washington State Dangerous Waste and/or RCRA hazardous waste. Based on these findings and on a formal request from Ecology, EPA completed an Action Memorandum dated May 18, 2021, authorizing the removal of hazardous waste from the Site. The action memorandum met several factors under Section 300.415(b)(2) of the *National Contingency Plan* (NCP) including the following:

- Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances, pollutants, or contaminants.
- Actual or potential contamination of drinking water supplies or sensitive ecosystems.
- Hazardous substances, pollutants, or contaminants in drums, barrels, tanks, or other bulk storage containers, that may pose a threat of release.
- Weather conditions that may cause hazardous substances, pollutants, or contaminants to migrate or be released.
- Threat of fire or explosion.
- The availability of other appropriate federal or state response mechanisms to respond to the release.

## 1.2 SCOPE OF WORK

The START scope of work for the Onalaska Wood Pyrolysis Plant TCRA included providing technical assistance to EPA and the ERRS contractor, conducting perimeter and on-site air monitoring, collecting waste material samples, subcontracting laboratory analysis, conducting data validation, and managing data. START also provided written and digital documentation of Site activities.

Additional START TCRA activities included:

- Developing a site-specific Sampling and Analysis Plan (SAP) WESTON, 2021b, Site Specific Data Management Plan (SSDMP) WESTON, 2021c, and Health and Safety Plan (HASP).
- Assisting with the consolidation, bulking, and ultimate disposal of liquid waste at an EPA-approved facility.
- Conducting First Step Hazard Categorization on numerous, miscellaneous containers for eventual bulking and ultimate waste disposal at an EPA-approved facility.
- Serving as Site Safety Officer and using particulate and toxic vapor air monitoring instruments, while adhering to standard cleanup safety practices, to ensure the safety of workers and the nearby community during the removal operations.

The ERRS contractors were responsible for the removal of identified hazardous substances on-site, profiling, transportation, and disposal to EPA-approved disposal facilities, while maintaining engineering controls to minimize off-site migration of Site-related COCs. ERRS removal and

disposal activities included the bulking of liquid waste, pH buffering of liquid to expedite the disposal of liquid waste, consolidation of solid waste, arranging of transportation and disposal services for solid and hazardous waste, and decontamination of secondary containment areas. ERRS was responsible for decontamination of equipment, and dust control throughout the removal operations.

### **1.3 REPORT FORMAT**

This report has been organized as follows:

- Section 1 – Introduction
- Section 2 – Site Description and Background
- Section 3 – Actions Taken
- Section 4 – Analytical Data
- Section 5 – Final Site Conditions and Summary
- Section 6 – References

Figures, tables, and appendices referred to in this report are presented in this portable document format (PDF) report.

## 2 SITE DESCRIPTION AND BACKGROUND

Information regarding the Site location and description, operational history, and previous investigations is included in this section.

### 2.1 SITE LOCATION AND DESCRIPTION

<b>Site Name:</b>	Onalaska Wood Pyrolysis Plant
<b>Location:</b>	1674 State Highway 508, Onalaska, WA 98532
<b>SEMS ID:</b>	WAN001020623
<b>SSID:</b>	10TH
<b>Latitude, Longitude:</b>	46.572695° North, 122.729594° West

The Onalaska Wood Pyrolysis Plant is located at 1674 State Highway 508, Onalaska, Lewis County, Washington. The Site includes an 8-acre former sawmill that was converted into an industrial facility for the pyrolysis of wood waste in 2015. Residential and agricultural land surround the Site. The Site is bordered to the north by State Highway 508, to the east by an inactive lumber yard and residence, to the south by a Lewis County Water District #2 (Water District) wastewater treatment plant, and to the west by a residential area. A Site Plan is provided as Figure 2-1

The Site consisted of:

- open-air warehouse/former sawmill building on the northern area of the Site
- open-air warehouse/former sawmill building on the southern area of the Site
- dry kiln building
- lean to/outdoor overhang area
- secondary containment with five Aboveground Storage Tanks (ASTs)
- two standalone 500-gallon poly tanks
- pyrolysis building
- wood chip storage tents
- stormwater ponds

- biochar pile
- fire station pump house
- AST for process water storage
- a vacant residence

Most of the Site property was paved or covered by facility buildings and/or debris; the west and south sides of the Site were heavily vegetated. The topography at the Site slopes to the northwest, and west. Overland flow pathway is to the north/northwest into an off-site drainage ditch that flows west along the northern boundary of the Site along State Highway 508. The drainage ditch discharges into Gheer Creek, the closest surface water body, which is located approximately 150 feet (ft) from the northwest corner of the Site. Gheer Creek originates from Carlisle Lake, which is less than half a mile from the Site and is a tributary of the South Fork Newaukum River, Carlisle Lake subsequently flows into the South Fork Newaukum River and eventually into the Chehalis River. Gheer Creek supports native runs of Chinook salmon, along with stocks of hatchery-produced coho salmon and steelhead. Gheer Creek specifically serves as a rearing habitat for juvenile coho and steelhead as part of an aquaculture technical program at Onalaska High School.

## **2.2 SITE OPERATIONAL HISTORY**

The Site originally operated as a former open-air sawmill facility that was converted into a pyrolysis plant in 2015 by Onalaska Wood Energy, LLC (OWE). OWE began pyrolysis activities at the Site and operated from 2015 to 2018 under a lease agreement. The pyrolysis process generated a wood Biochar product that could be sold primarily as a soil amendment for agricultural applications. Wood tar and wood vinegar were two additional principal byproducts that were generated in the pyrolysis process. OWE reported to Ecology that concentrations of toxics in the wood tar and wood vinegar did not exceed state and federal hazardous waste thresholds and that there was a market for their resale. OWE was unsuccessful in providing verifiable analytical data to support these claims and never successfully identified a resale market for the waste. In March 2020, OWE ceased operations leaving an estimated 100,000 gallons of accumulated wood tar and wood vinegar waste on the Site.

On June 30, 2020, Ecology's Southwest Regional Office received a letter from the Water District expressing concerns that a new company had restarted pyrolysis operations at the Site. The Water District operates the community's only wastewater treatment plant, which is located adjacent to the Site. The letter explained how past practices of "dumping toxic industrial waste" into the county sewer system had disrupted the plant's treatment processes. The letter also recounted that after the Water District requested OWE to provide information on the contents of the waste OWE had released into the sewer, OWE reportedly began dumping the material directly onto the ground, which migrated into the treatment plant via a drainage ditch.

Following up on the Water District's complaint, Ecology learned that a new entity, CJC West, LLC (CJC), had taken over the pyrolysis operations and equipment at the Site. Ecology issued CJC a Notice to Comply on September 16, 2020. The notice cited violations of the conditions for exemption for large quantity waste generators and directed CJC to take specific actions to safely manage and dispose of the waste that had accumulated on-site. Ecology never received a formal response from CJC following the issuance of the notice. In December 2020, Ecology contacted EPA to discuss the potential human health and environmental risks at the Site as well as waste removal options. CJC ceased operations at the Site in February 2021 and did not respond to subsequent inquiries made by Ecology.

### **2.3 SUMMARY OF PREVIOUS INVESTIGATIONS AND SITE VISITS**

The Site has been the focus of several environmental inspections and compliance concerns over the past 5 years.

#### **2016 Washington Department of Ecology Site Visit**

In 2016, while the facility was in operation, Ecology conducted a Site visit and collected samples from the wood tar/wood vinegar mixture and sent them for laboratory analysis. The analytical results reported concentrations of phenol, 2-butanone, benzene, and xylene, among other VOCs, and several PAHs. The concentrations of 2-butanone and benzene exceeded the Resource Conservation and Recovery Act (RCRA) characteristics for Hazardous Waste. The wood tar/wood vinegar mixture was designated as a characteristic Hazardous Waste with RCRA waste codes

D035 (2-butanone) and D018 (benzene). OWE left the wood tar/wood vinegar mixture in several hundred containers located on-site.

### **2020/2021 Lewis County Fire Marshal Site Visit**

Two fires reportedly occurred at the Site between December 2020 and January 2021 resulting in site visits and a subsequent Lewis County Building Official/Fire Marshal report. The fire marshal reported a fire hazard concern from a large volume of dried woodchips throughout the Site. They were also concerned about the approximately 40,000 gallons of liquid hazardous waste stored in 275-gallon totes inside a structurally unsound building that was at risk of collapsing in a snow or high wind event.

### **2021 EPA Removal Site Evaluation**

Concerns among state and county officials increased over the continued presence of hazardous waste following the two separate fire incidents reported above. Based on the Site's history and concerns over the impact on local estuaries, EPA conducted a RSE in March 2021 and April 2021 to assess the presence, concentrations, and migration pathways of hazardous substances at the Site to determine risks of exposure. During the RSE, EPA observed an estimated 100,000 gallons of wood tar/wood vinegar mixture being stored in five ASTs (three 8,000-gallon poly ASTs, one 3,000-gallon poly AST, an 800-gallon steel AST, two 500-gallon poly containers, and two-hundred-and-eighty-eight 275-gallon poly totes) at the Site. The majority of hazardous waste was outside or within buildings that were not secure and provided no secondary containment. The five ASTs were located within a concrete secondary containment that had an estimated 15,000 gallons of a rainwater and wood vinegar/tar mixture. An unknown amount of wood tar was observed in the bottom of the secondary containment. Cracks in the secondary containment and visual evidence of the secondary containment historically overflowing had led to staining of the surrounding soil.

Wood vinegar samples showed pH consistently between 1.8 and 3. Two contaminants, 2-methylphenol (o-cresol) and 4-methylphenol (p-cresol), were detected in wood vinegar at concentrations high enough to be designated as a D023 and D024 characteristic RCRA Hazardous Wastes for toxicity. Both are acutely toxic to humans through dermal contact.

Concentrations of naphthalene and 2,4-dimethylphenol in wood tar exceeded EPA Removal Management Levels (RMLs). Due to elevated benzene, the wood tar waste was designated as a D018 RCRA Hazardous Waste.

### 3 ACTIONS TAKEN

The TCRA project team consisted of EPA, ERRS, and START. Removal actions took place between June 14, 2021, and July 29, 2021, under the direction of the EPA OSC, Brooks Stanfield.

START provided written and photographic documentation, air monitoring, sampling to assist ERRS with bulking of solid waste operations, and technical assistance during the removal activities. START initiated container sampling, First Step Hazard Categorization, and research to aid in the disposal of approximately 193 unknown containers. This information was provided to EPA and ERRS to determine appropriate Department of Transportation (DOT) hazard categories for bulking and disposal purposes.

ERRS was responsible for the removal and disposal of waste containers and their contents. The ERRS TCRA included preparing the poly totes and ASTs for wood vinegar decanting removal; pH balancing/preparing wood vinegar as needed prior to transportation to disposal facilities; wood tar removal from totes and ASTs for solidification with woodchips; and deconstructing of poly totes and ASTs for transportation to EPA-approved disposal facilities.

Digital photographs are provided as Attachment A and Site logbook notes are provided as Attachment B.

#### 3.1 HEALTH AND SAFEETY

HASPs were developed by START and ERRS prior to mobilization to the Site. START assisted EPA with developing an “Umbrella” HASP that incorporated the ERRS and START HASPs and included the following elements:

- Safety and health risk or hazard analysis
- Employee training requirements
- Personal protective equipment (PPE)
- Medical surveillance requirements
- Air monitoring
- Site control measures

- Decontamination procedures
- Emergency response plan
- Spill containment program
- Project-specific COVID-19 prevention requirements

Before the TCRA began, the project team reviewed the HASP and conducted a walk to familiarize themselves with the Site and hazardous conditions; including the locations of stored waste and physical hazards located throughout the Site.

The Umbrella HASP included special provisions to prevent the transmission and spread of COVID-19. These provisions included Interim EPA COVID-19 Health and Safety Guidelines and protocols for daily worker health and temperature screenings. Daily all-hands safety meetings were conducted outdoors with attendees spaced 6 feet apart or more. Handwashing/sanitizing facilities were provided at locations convenient to the command post and work locations. Site personnel were reminded of the required protocols and prevention measures defined in the HASP, such as wearing face coverings, wiping down equipment and work areas daily with sanitizer, avoiding handshakes, and social distancing.

### **3.2 AIR MONITORING**

START utilized DustTrak™ monitors for particulate matter (PM) and AreaRAE® monitors for chemicals of concern in the vicinity of the removal activities. Four monitoring locations were established to provide air quality data for worker health and safety and to ensure on-site operations were not impacting the nearby community. The DustTrak™ and AreaRAE® monitors were zero calibrated daily and data was transmitted real-time and monitored remotely. Real-time data, supported by a Viper® data communication system, aided in decision-making regarding dust and chemical hazards migrating from active waste-removal areas. Water trucks were used to suppress dust during removal activities. The particulate time-weighted average (TWA) never exceeded the site-specific action level of 1.0 milligrams per cubic meter (mg/m<sup>3</sup>) for particulates in air during removal activities.

### 3.3 REMOVAL ACTIONS

Based on information obtained during the EPA 2021 RSE, the proposed removal actions included:

- Consolidation and disposal of liquid hazardous and non-hazardous waste
- Consolidation and disposal of solid hazardous waste
- Assessment, characterization, and bulking of unknown containers located on-site

#### 3.3.1 Liquid Hazardous Waste Consolidation/Disposal

Approximately 100,000 gallons of wood vinegar contained in totes, ASTs, and within secondary containment was identified during the EPA RSE. Consolidation and disposal of wood vinegar was prioritized due to the volume and potential threat of release. Totes and ASTs with wood vinegar were pumped/decanted of free liquid waste into 5,000-gallon vacuum trucks for off-site transportation and disposal. The management of the wood vinegar for off-site disposal included the following processes:

- Establishing a temporary containment area for liquid waste transfer
- Treating waste by filtration and/or pH adjustments for transfer
- Decanting/pumping liquid waste for transfer into tanker trucks

ERRS established two temporary staging areas with a secondary containment to facilitate the liquid waste transfer from the 275-gallon totes of wood vinegar into vacuum trucks for off-site transportation and disposal. Each containment area had the capacity to hold approximately 20 to 22 totes. Wood vinegar stored in ASTs was managed in place and free liquids were transferred into vacuum trucks. The wood tar vinegar/rainwater mixture within the secondary containment was managed in place and transferred to vacuum trucks.

Due to off-loading issues at the disposal facility and limited availability of disposal facilities accepting wood vinegar waste, modifications to the on-site waste preparation for disposal was required. During the off-loading process, the vacuum trucks were encountering problems due to suspended solids (wood tar) coating the inside of the tanker and associated valves. The suspended solids also created challenges for the disposal facility to process the liquid waste. ERRS began

filtering the wood vinegar using a 200-micron “sock filters” to remove the suspended wood tar before loading the free liquid into the vacuum trucks. This method proved to be effective in preventing accumulation of suspended solids in vacuum trucks that were transporting wood vinegar.

Due to limited disposal facilities and storage capacity accepting wood vinegar waste, on-site pre-treatment became a requirement during the course of the project to facilitate a timely removal of the waste. Disposal facilities with remaining capacity to receive wood vinegar required the wood vinegar solution be shipped with a pH between 6.0 and 7.0. Wood vinegar stored on-site typically had a pH of approximately 3.0, requiring adjustments to meet the new disposal facility requirements. ERRS utilized sodium hydroxide (NaOH) to raise the pH up to meet the disposal facility requirements.

A total of 91,777 gallons of wood vinegar was transported off-site for disposal (68,977 gallons of RCRA Hazardous Waste-designated wood vinegar and the 22,800 gallons of Washington State Dangerous Waste-designated wood vinegar) at EPA-approved disposal facilities.

### **3.3.2 Solid Hazardous Waste Consolidation/Disposal**

Solid hazardous waste (wood tar) identified on-site required consolidation and solidification to facilitate off-site disposal. After free liquids were removed from the totes, ASTs, and secondary containment, as described in 3.3.1, the remaining on-site viscous tar material required solidification to facilitate off-site disposal. Prior to solidification, debris was removed from the secondary containment and placed in 20-Cubic Yards (CY) roll-off boxes for off-site transportation.

After removing the free liquids from the totes and ASTs, estimated volumes of wood tar were documented. Totes containing wood tar were placed within the AST secondary containment for consolidation and solidification. The tops and sides of the totes and ASTs were cut open to facilitate the removal of the wood tar. Wood tar located in the ASTs was removed and consolidated with wood tar removed from the totes for solidification and off-site transportation and disposal.

Prior to solidification of the wood tar, START collected samples of the saw dust/woodchips stored on-Site for waste characterization prior to using the material for a binding agent in the solidification process. Samples were analyzed for benzene by SW8260D/Toxicity Characteristic Leaching Procedure (TCLP) Zero Headspace Extraction (ZHE) and SVOCs by SW8270 TCLP Extraction analysis. Analytical results reported no SVOCs or benzene, indicating the material could be used for solidification purposes. ERRS utilized the concrete secondary containment area to mix the wood tar and the saw dust/woodchips for solidification. After the waste was solidified it was loaded into 20-CY roll-off boxes for off-site transportation and disposal.

Following waste solidification operations, the secondary containment was decontaminated of wood tar residue and breached to minimize the accumulation of future rainwater. ERRS removed and segregated non-wood tar-contaminated metal from the totes for off-site recycling. An estimated 450 CY (260 CY of wood tar and 190 CY of wood tar-contaminated debris) of solid hazardous waste was transported off-site for disposal at an EPA-approved disposal facility. An estimated 140 CY of scrap metal was shipped off-site for recycling.

### **3.3.3 Assessment and Characterization of Unknown Wastes**

An estimated 193 miscellaneous containers and drums of unknown origin were observed behind totes in areas of the Site that were previously not accessible due to safety considerations. First Step Hazard Characterization (HAZCAT) operations were conducted on the contents of the unknown containers to determine DOT hazard classifications. Based on the HAZCAT results, 15 different DOT waste streams were generated. The containers were overpacked based on the DOT classification and subsequently shipped for off-site disposal.

### **3.3.4 Post Removal Remaining Waste Materials and Other Environmental Concerns**

Upon completion of the removal action, the pyrolysis, dry kiln, lean to area, and north and south warehouse/sawmill buildings remained on-site. The pyrolysis machinery and associated parts remain inside the secured pyrolysis building. It is assumed that some residual wood tar or wood vinegar waste remains contained inside the workings of the pyrolysis unit itself, however any such material does not currently pose a threat of release. Visually stained soil was observed on-site and was not addressed as part of this TCRA. The Biochar pile, initially located outdoors and exposed

to the elements in the southwestern corner of the property, was relocated into the open spaces beneath the north and south warehouse/sawmill buildings at the request of the Lewis County Fire Department. Super sacks of Biochar were relocated to the lean-to area to prevent weathering.

### 3.4 WASTE DISPOSAL SUMMARY

As part of the TCRA, EPA removed and disposed of wood vinegar hazardous waste liquid, State-regulated wood vinegar liquid waste, wood tar hazardous solid waste and debris, scrap metal for recycling, and miscellaneous chemical containers. Details of waste stream disposal are provided in Table 3-1.

**Table 3-1 Waste Disposal Summary**

Waste Stream	Description	Medium	Quantity Disposed
RCRA Hazardous Waste Wood Vinegar	RCRA wood vinegar from totes, ASTs, and pH-balanced wood vinegar volume	Liquid	68,977 gallons
Washington State Dangerous Waste Wood Vinegar (secondary containment)	Standing wood vinegar in secondary containment	Liquid	22,800 gallons
RCRA Hazardous Waste Tar Solids	Wood tar/woodchip mixture	Solid	260 CY
RCRA Hazardous Waste Tar coated debris	Wood tar-coated debris, including poly tote and poly AST body/casings, debris found inside secondary containment, any wood tar covered pallets	Solid	190 CY
Scrap Metal (recycling)	Cleaned scrap metal from totes and ASTs	Solid	140 CY
Miscellaneous chemical containers	Site container chemical solid and liquid contents	Mixed	24 bulk containers

Notes:

AST           aboveground storage tank  
 CY           cubic yard  
 pH           Potential Hydrogen  
 RCRA       Resource Conservation and Recovery Act

## **4 ANALYTICAL DATA**

### **4.1 ANALYTICAL TESTING**

During the TCRA, START collected two samples of the saw dust/woodchips stored on-site for waste characterization for benzene following SW8260D/TCLP ZHE and SVOCs by SW8270 TCLP Extraction analysis. Laboratory analysis was conducted by Fremont Analytical Laboratory located at 3600 Avenue North in Seattle, Washington. Sampling conducted during the TCRA was in accordance with the site-specific TCRA SAP (WESTON, 2021b). Samples were properly packed for shipment and dispatched to the laboratory for analysis along with signed chain-of-custody documentation.

Analytical results and Laboratory Data Packages are available in Appendices C and D, respectively.

### **4.2 DATA USABILITY**

The data was determined to be of acceptable quality for their intended use. The reported results for aniline and 3,3'-dichlorobenzene from sample WTWS-01-1 were rejected due to low matrix spike and/or matrix spike duplicate recoveries. This finding has no material impact on the intended use of the data as these analytes do not have RCRA disposal criteria. A Data Quality Assurance Review Memoranda is available in Attachment E.

### **4.3 DATA REPORTING**

In accordance with the EPA Region 10 Regional Data Management Plan (RDMP), field data was managed in accordance with the SSDMP, which was updated as conditions required. Following collection, field data was processed to generate a Scribe-compatible file, which was imported into a Scribe database. The Scribe datasets were published to Scribe.net (project ID 4236).

## 5 FINAL SITE CONDITIONS AND SUMMARY

Final Site conditions and demobilization activities included EPA notifying the property owner and Ecology that residual wood tar or wood vinegar waste could remain contained inside the pyrolysis unit itself. EPA advised the property owners that any efforts to disassemble the unit should involve a plan to properly contain and dispose of any hazardous waste found inside. The property owner also agreed to take responsibility for the 350 gallons of red-dye diesel and acetylene tanks in the south warehouse/sawmill. The Biochar pile, initially located outdoors and exposed to the elements in the southwestern corner of the property, was moved into the open spaces beneath the north and south warehouse/sawmill buildings at the request of the Lewis County Fire Department. Super sacks on-site containing Biochar were moved beneath the lean-to area to prevent weathering. Prior to demobilization, ERRS and START applied caution tape to dangerous areas on-site, such as the pyrolysis machinery, stairway, and the condemned building footprint.

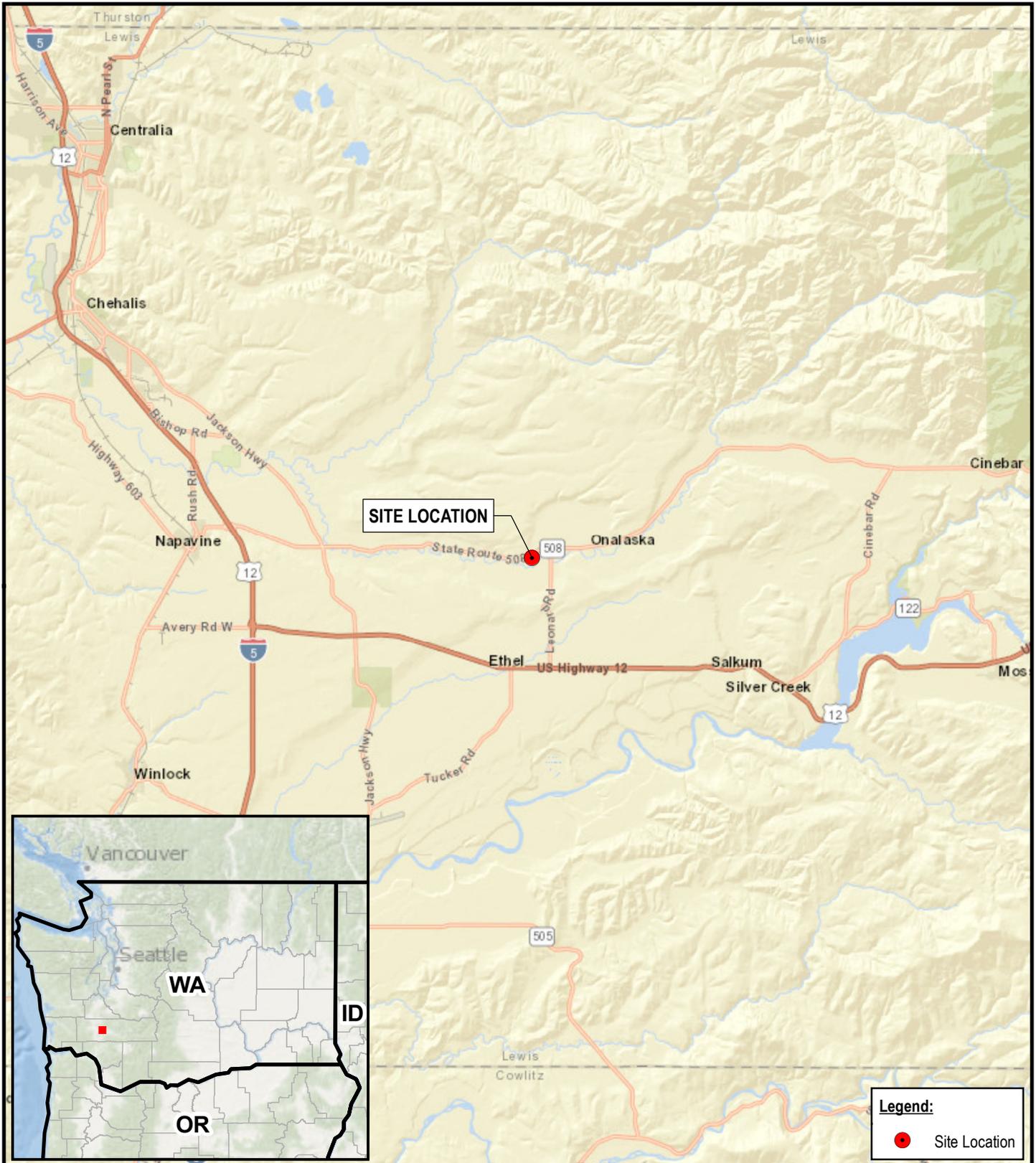
Upon completion of TCRA operations, EPA, Ecology, ERRS, and START conducted a final Site walk, confirming that wood vinegar and wood tar wastes in targeted totes, ASTs, and the secondary containment had been removed from the Site. Demolition/deconstruction and removal of the cleaned out secondary containment walls, poly totes, steel and poly ASTs, and tote metal casings were also confirmed.

## **6 REFERENCES**

Weston Solutions, Inc. a (WESTON, 2021a), Superfund Technical Assistance and Response Team (START-V) Removal Site Evaluation Report, June 2021.

WESTON, 2021b, START-V Site-Specific Sampling and Analysis Plan. June 2021.

WESTON, 2021c, START-V Site-Specific Data Management Plan. June 2021.

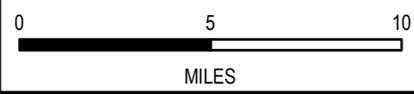


**SITE LOCATION**

**Legend:**  
 Site Location

**Source:**  
 Background: ESRI World Street Map (2021)  
 Inset Background: ESRI Ocean Basemap (2021)

**SSID: 10TH**  
**TO No./Subtask No.: 68HE0721F0069**



**US EPA REGION 10**



Weston Solutions, Inc.  
**START V**

**FIGURE 1-1**  
**SITE LOCATION MAP**  
 ONALASKA WOOD PYROLYSIS  
 1674 STATE HIGHWAY 508  
 ONALASKA, LEWIS COUNTY, WA

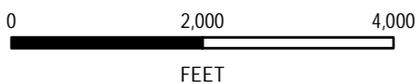
DECEMBER 2021



**Legend:**  
 Site Boundary

Source:  
 Background: ESRI World Imagery (2021)  
 Inset Background: ESRI Ocean Basemap (2021)

SSID: 10TH  
 TO No./Subtask No.: 68HE0721F0069



US EPA REGION 10



Weston Solutions, Inc.  
 START V

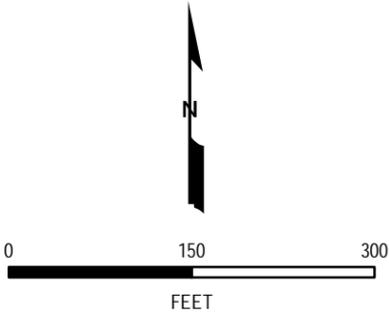
**FIGURE 1-2**  
**SITE AREA MAP**  
 ONALASKA WOOD PYROLYSIS  
 1674 STATE HIGHWAY 508  
 ONALASKA, LEWIS COUNTY, WA

DECEMBER 2021



**LEGEND**

-  Lewis County Water District #2 Wastewater Treatment Facility
-  Site Boundary
-  Gheer Creek



Source:  
Background: Google Earth (2021)  
SSID: 10TH  
TO No./Subtask No.: 68HE0721F0069



**FIGURE 2-1**  
SITE PLAN  
ONALASKA WOOD PYROLYSIS  
1674 STATE HIGHWAY 508  
ONALASKA, LEWIS COUNTY, WA  
DECEMBER 2021

**ATTACHMENT A**  
**DIGITAL PHOTOGRAPH REPORT**

# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>1</b>	<b>Date:</b> 06/14/2021	
<b>Photo Coordinates</b>		
<b>Lat</b>	46.572531	
<b>Long</b>	-122.72936	
<b>Direction Photo Taken:</b> <b>SE</b>		
<b>Description:</b> Site viewed from the entrance gate.		

<b>Photo No.</b> <b>2</b>	<b>Date:</b> 06/14/2021	
<b>Photo Coordinates</b>		
<b>Lat</b>	46.572526	
<b>Long</b>	-122.729495	
<b>Direction Photo Taken:</b> <b>NE</b>		
<b>Description:</b> Wood Chip Storage Area.		

# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>3</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572356
<b>Long</b>	-122.729788
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  TG01 Tote Area in the North Warehouse.	



<b>Photo No.</b> <b>4</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572356
<b>Long</b>	-122.729788
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Label on a tote located in the TG01 Tote Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>5</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572356
<b>Long</b>	-122.729788
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  Totes, large containers, and debris stored in the North Warehouse area.	



<b>Photo No.</b> <b>6</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572356
<b>Long</b>	-122.729788
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Totes, large container, and debris stored in the North Warehouse area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>7</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572347
<b>Long</b>	-122.730354
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  Tote and debris stored in the North Warehouse area.	



<b>Photo No.</b> <b>8</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572347
<b>Long</b>	-122.730354
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  Totes and debris stored in the North Warehouse area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>9</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572347
<b>Long</b>	-122.730354
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Totes, containers, and debris stored in the North Warehouse area.	



<b>Photo No.</b> <b>10</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572347
<b>Long</b>	-122.730354
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  North Warehouse in the background. Equipment and covered waste in the foreground.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>11</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.57233
<b>Long</b>	-122.729753
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b> Equipment and wood chips stored in the condemned warehouse area.	



<b>Photo No.</b> <b>12</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.57233
<b>Long</b>	-122.729753
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b> Condemned warehouse area in the foreground. South Warehouse TG02 Tote Area with totes, drums, and a diesel tank in the background.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>13</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572245
<b>Long</b>	-122.729601
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  South Warehouse on the left and condemned warehouse area on the right.	



<b>Photo No.</b> <b>14</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572039
<b>Long</b>	-122.729863
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  North Warehouse and condemned warehouse area viewed from the southwest. Abandoned pallets on the left.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>15</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572039
<b>Long</b>	-122.729863
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Debris in the condemned warehouse area. Concrete retaining wall holding back wood chips on the right. Totes in the North Warehouse to the background left.	



<b>Photo No.</b> <b>16</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.571939
<b>Long</b>	-122.729985
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Back area of the Site. South Warehouse area to the left.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>17</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.571939
<b>Long</b>	-122.729985
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Debris in the back southwest end of the South Warehouse.	



<b>Photo No.</b> <b>18</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.571939
<b>Long</b>	-122.729985
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Biochar pile, abandoned equipment and pallets, and EPA equipment trailer.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>19</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.571939
<b>Long</b>	-122.729985
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  Exposed section of the South Warehouse at the southwest end.	



<b>Photo No.</b> <b>20</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.57193
<b>Long</b>	-122.729974
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  South Warehouse TG02 Tote Area exposed at center. Dry Kiln Building in the background.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>21</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572013
<b>Long</b>	-122.729805
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Totes, drums, diesel tank, and debris stored in TG02 Tote Area of the South Warehouse area.	



<b>Photo No.</b> <b>22</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572177
<b>Long</b>	-122.729635
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  TG02 Tote Area in the South Warehouse	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>23</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572179
<b>Long</b>	-122.729649
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Diesel tank in TG02 Tote Area.	



<b>Photo No.</b> <b>24</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572179
<b>Long</b>	-122.729649
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Drums and small containers of waste in the TG02 Tote Area	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>25</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572161
<b>Long</b>	-122.729597
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  Biochar pile and heavy equipment located south of the South Warehouse.	



<b>Photo No.</b> <b>26</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572161
<b>Long</b>	-122.729597
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Covered pallets of biochar, abandoned equipment, and storage container in the foreground. Lean-to TG04 Tote Area in the middle ground at left, behind the telehandler	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>27</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572161
<b>Long</b>	-122.729597
<b>Direction Photo Taken:</b> <b>S</b>	

**Description:**

Covered pallets of biochar, abandoned equipment, and storage container south of the Dry Kiln Building.



<b>Photo No.</b> <b>28</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572161
<b>Long</b>	-122.729597
<b>Direction Photo Taken:</b> <b>NE</b>	

**Description:**

Dry Kiln Building TG03 Tote Area on the left. Lean-to TG04 Tote Area on the right.



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>29</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572165
<b>Long</b>	-122.729296
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Bin of biochar among totes, tanks, and buckets of wood tar and wood vinegar in the Dry Kiln Building.	



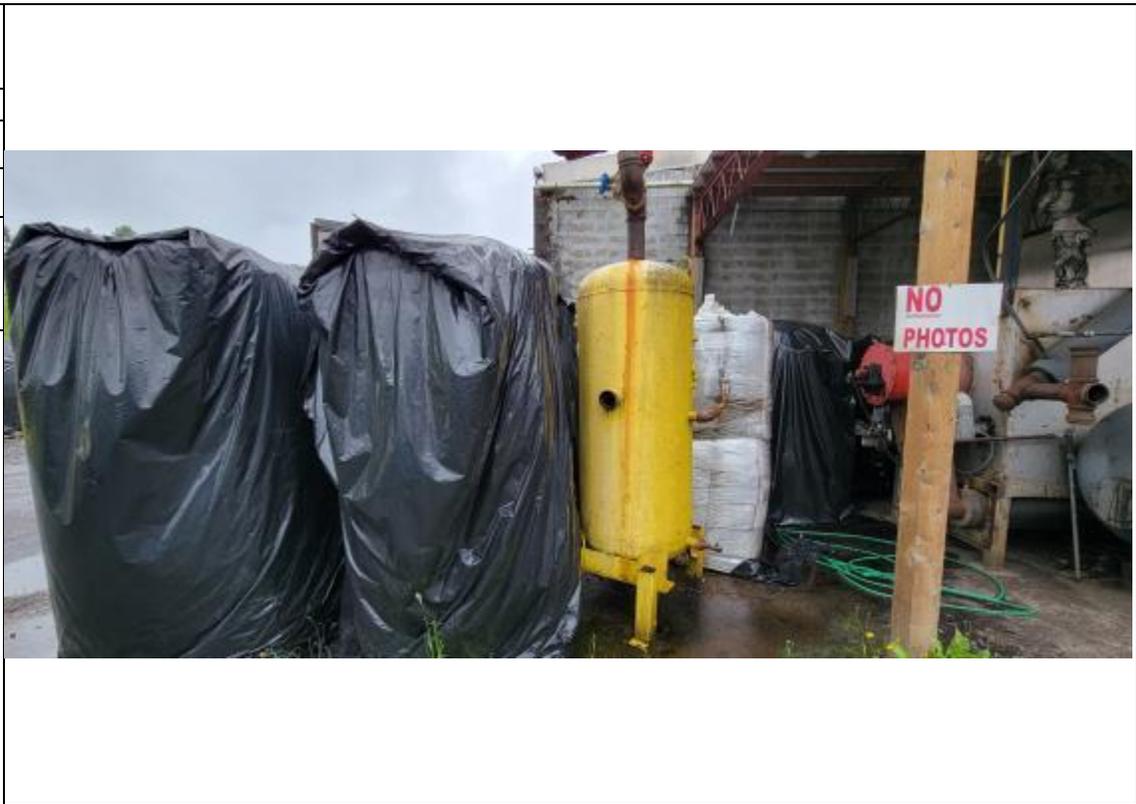
<b>Photo No.</b> <b>30</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572165
<b>Long</b>	-122.729296
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  Bin of biochar among totes, tanks, and buckets of wood tar and wood vinegar in the Dry Kiln Building.	



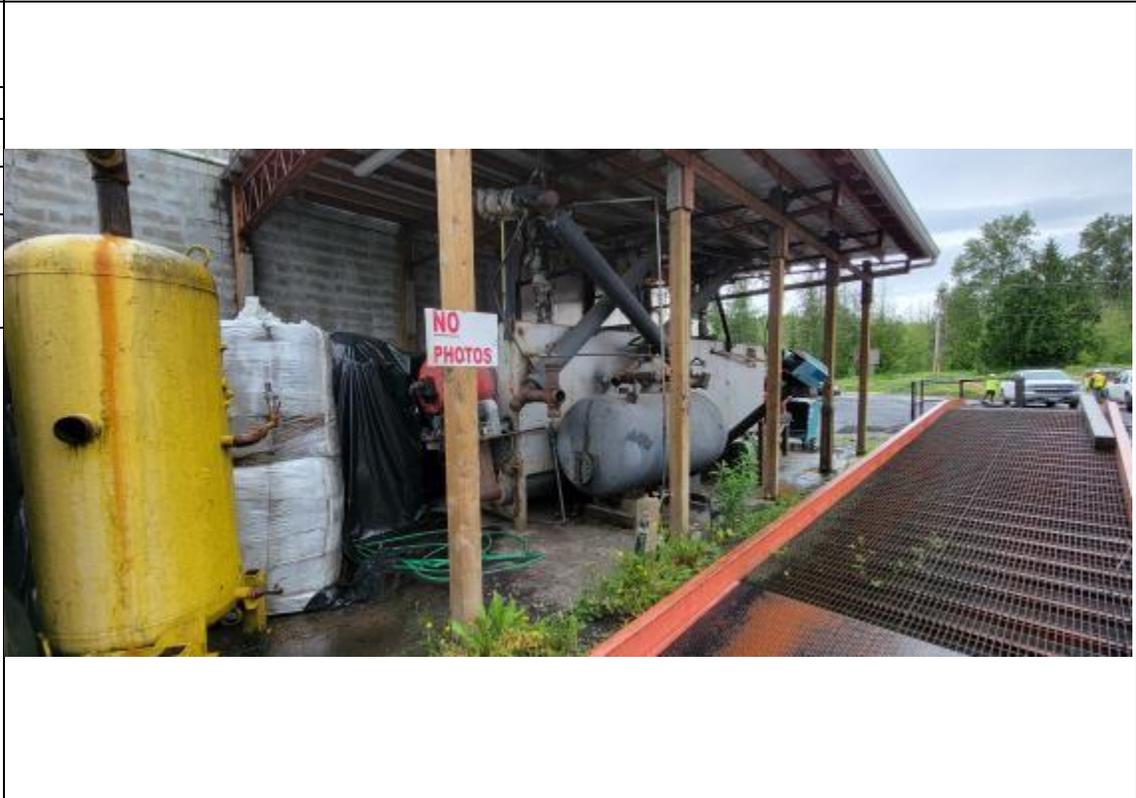
# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>31</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572165
<b>Long</b>	-122.729296
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Covered pallets of biochar and equipment located at the east corner of the Dry Kiln Building.	



<b>Photo No.</b> <b>32</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572165
<b>Long</b>	-122.729296
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Covered biochar on pallets and equipment located at the east wall of the Dry Kiln Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>33</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572189
<b>Long</b>	-122.729027
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b> TG04 Tote Area at the Lean-to Area.	



<b>Photo No.</b> <b>34</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572189
<b>Long</b>	-122.729027
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b> TG04 Tote Area at the Lean-to Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>35</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572189
<b>Long</b>	-122.729027
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Debris and equipment in the north section of the Dry Kiln Building. Abandoned truck parked north of the Dry Kiln Building.	



<b>Photo No.</b> <b>36</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572418
<b>Long</b>	-122.729449
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Debris and equipment in the north section of the Dry Kiln Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>37</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572418
<b>Long</b>	-122.729449
<b>Direction Photo Taken:</b> <b>SW</b>	

**Description:**

North Warehouse and condemned warehouse area in the background. Dry Kiln Building in the left foreground. Abandoned equipment in the center foreground. Abandoned truck in the right foreground.



<b>Photo No.</b> <b>38</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572418
<b>Long</b>	-122.729449
<b>Direction Photo Taken:</b> <b>E</b>	

**Description:**

Pyrolysis Building with Lean-to Area extending to the right. Abandoned equipment at the right foreground.



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>39</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572092
<b>Long</b>	-122.728898
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  South face of the Lean-to Area. Empty foreground area is the where the tote staging area was eventually established.	



<b>Photo No.</b> <b>40</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572092
<b>Long</b>	-122.728898
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Fire Station Pump House located south of the Pyrolysis Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>41</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572092
<b>Long</b>	-122.728898
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  South face of the Pyrolysis Building. Lean-to TG04 Tote Area located on the left.	



<b>Photo No.</b> <b>42</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572092
<b>Long</b>	-122.728898
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Exposed interior seen through the south door of the Pyrolysis Building. Two totes located at center. Tank Farm located in the Secondary Containment Area at right.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>43</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572196
<b>Long</b>	-122.728806
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  Interior of the Pyrolysis building viewed from the south entrance.	



<b>Photo No.</b> <b>44</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572322
<b>Long</b>	-122.728593
<b>Direction Photo Taken:</b> <b>NK</b>	
<b>Description:</b>  Pyrolysis Building, Lean-to Area, and Tank Farm viewed from the southeast.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>45</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572322
<b>Long</b>	-122.728593
<b>Direction Photo Taken:</b> <b>K</b>	
<b>Description:</b>  Tank Farm in the foreground and Pyrolysis Building in the back left.	



<b>Photo No.</b> <b>46</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572322
<b>Long</b>	-122.728593
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  Tank Farm in Secondary Containment Area. Three 8,000-gallon aboveground storage tanks (ASTs) in the middle ground. Two propane tanks are in the foreground.	



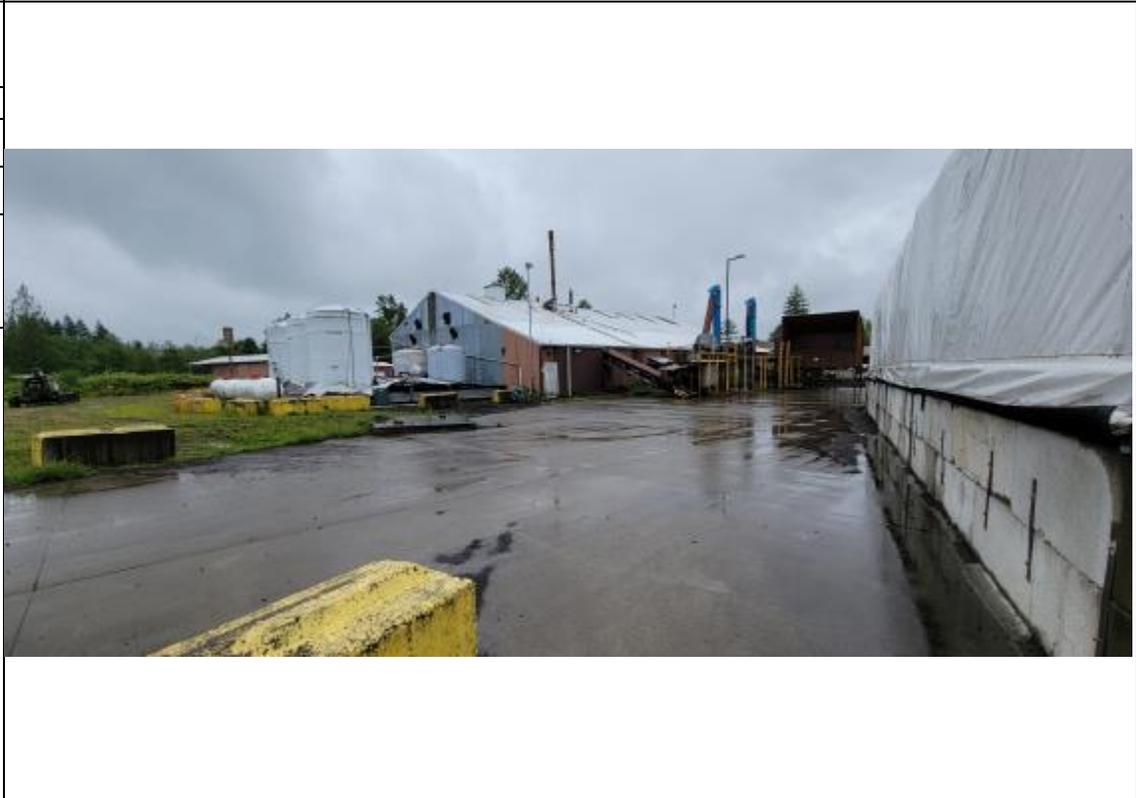
# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>47</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572322
<b>Long</b>	-122.728593
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  Secondary Containment Area. Two propane tanks, three 8,000-gallon aboveground storage tanks (ASTs), and a 3,000-gallon AST can be seen.	



<b>Photo No.</b> <b>48</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572631
<b>Long</b>	-122.728607
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Pyrolysis Building at center and the Secondary Containment Area on the left.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>49</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572631
<b>Long</b>	-122.728607
<b>Direction Photo Taken:</b> <b>SW</b>	

**Description:**  
Wood Chip Storage Area viewed from the north end of the Site.



<b>Photo No.</b> <b>50</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572631
<b>Long</b>	-122.728607
<b>Direction Photo Taken:</b> <b>S</b>	

**Description:**  
Wood Chip Storage Area viewed from the north end of the Site.



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>51</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572631
<b>Long</b>	-122.728607
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  Stormwater pond at the north end of the Site. Pond runs parallel to Main Avenue and the northmost Wood Chip Storage Area.	



<b>Photo No.</b> <b>52</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572619
<b>Long</b>	-122.728987
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Secondary Containment Area viewed from the north.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>53</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572619
<b>Long</b>	-122.728987
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  Abandoned processing equipment at the north face of the Pyrolysis Building.	



<b>Photo No.</b> <b>54</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572619
<b>Long</b>	-122.728987
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Abandoned processing equipment at the north face of the Pyrolysis Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>55</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572634
<b>Long</b>	-122.729214
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Abandoned processing equipment at the north face of the Pyrolysis Building.	



<b>Photo No.</b> <b>56</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572504
<b>Long</b>	-122.729253
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  Interior of Pyrolysis Building viewed from the west entrance.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>57</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572504
<b>Long</b>	-122.729253
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Totes of wood vinegar, super sacks of biochar, and abandoned equipment in the interior of the Pyrolysis Building.	



<b>Photo No.</b> <b>58</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572504
<b>Long</b>	-122.729253
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Interior of Pyrolysis Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>59</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572504
<b>Long</b>	-122.729253
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Totes of wood vinegar, super sacks of biochar, and abandoned equipment in the interior of the Pyrolysis Building.	



<b>Photo No.</b> <b>60</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572175
<b>Long</b>	-122.729247
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  ERRS contractors setting up the tote staging area just south of the Lean-to Area.	



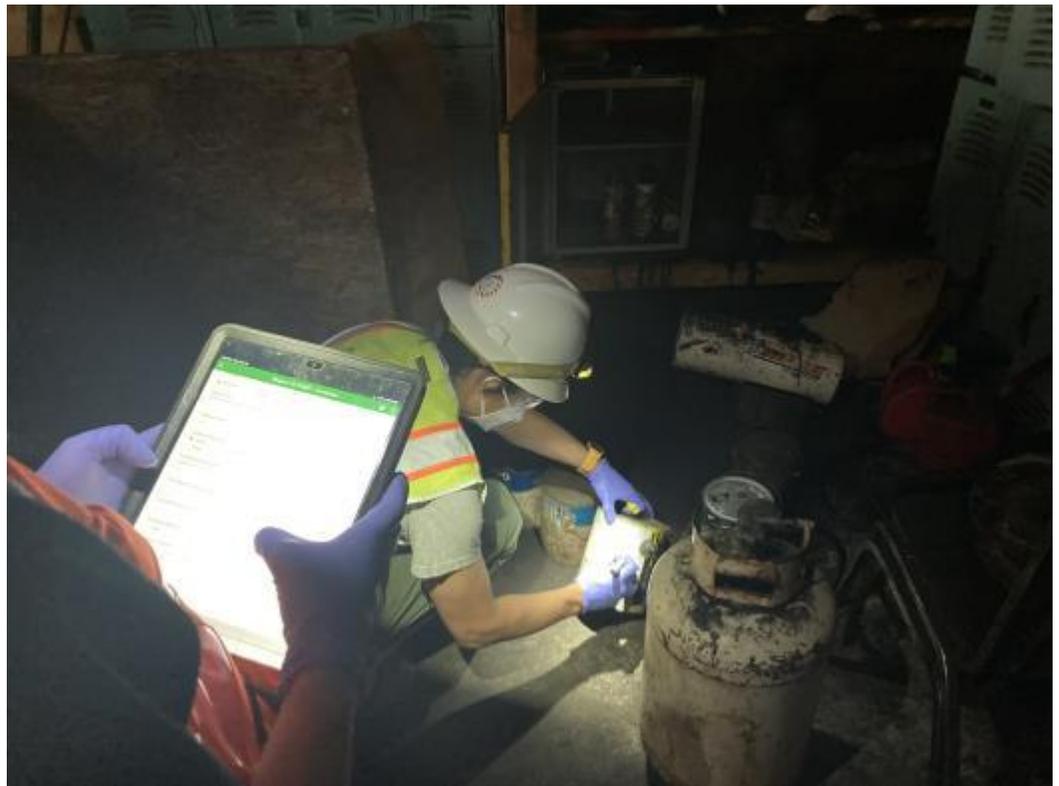
# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.:</b> 68HE0721F0069
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<b>Photo No.</b> <b>61</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572444
<b>Long</b>	-122.729286
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  Office trailers being delivered to the Site. Trailers were located west of the Wood Chip Storage Area.	



<b>Photo No.</b> <b>62</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572444
<b>Long</b>	-122.728819
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  START contractors conducting inventory of hazardous waste in the workshop located southeast of the Dry Kiln Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>63</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.5919
<b>Long</b>	-122.75145
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  Inventoried waste staged in the Pyrolysis Building.	



<b>Photo No.</b> <b>64</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572078
<b>Long</b>	-122.729211
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  Lean-to TG04 Tote Area at left and tote staging area at right. Fire Station Pump Houses are in the background at right.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>65</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.598594
<b>Long</b>	-122.759231
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  START contractor screening totes with pH probe meter.	



<b>Photo No.</b> <b>66</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.574436
<b>Long</b>	-122.71431
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  Abandoned equipment located in the north section of the Dry Kiln Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>67</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.574436
<b>Long</b>	-122.71431
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Abandoned equipment located in the north section of the Dry Kiln Building.	



<b>Photo No.</b> <b>68</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.574436
<b>Long</b>	-122.71431
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Abandoned equipment located in the north section of the Dry Kiln Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>69</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572364
<b>Long</b>	-122.729541
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Workshop located to the right of the Dry Kiln Building. South Warehouse TG02 Tote Area can be seen to the right.	



<b>Photo No.</b> <b>70</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572364
<b>Long</b>	-122.729541
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Interior of the workshop.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>71</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572364
<b>Long</b>	-122.729541
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Interior of the workshop.	



<b>Photo No.</b> <b>72</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572364
<b>Long</b>	-122.729541
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Interior of the workshop.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>73</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572364
<b>Long</b>	-122.729541
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Lockers and bathrooms at the back of the workshop.	



<b>Photo No.</b> <b>74</b>	<b>Date:</b> 06/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572364
<b>Long</b>	-122.729541
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Abandoned equipment and parts bins located in the back of the workshop.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>75</b>	<b>Date:</b> 06/15/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	N/A
<b>Long</b>	N/A
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Vacuum truck pumping out wastewater from the Secondary Containment Area.	



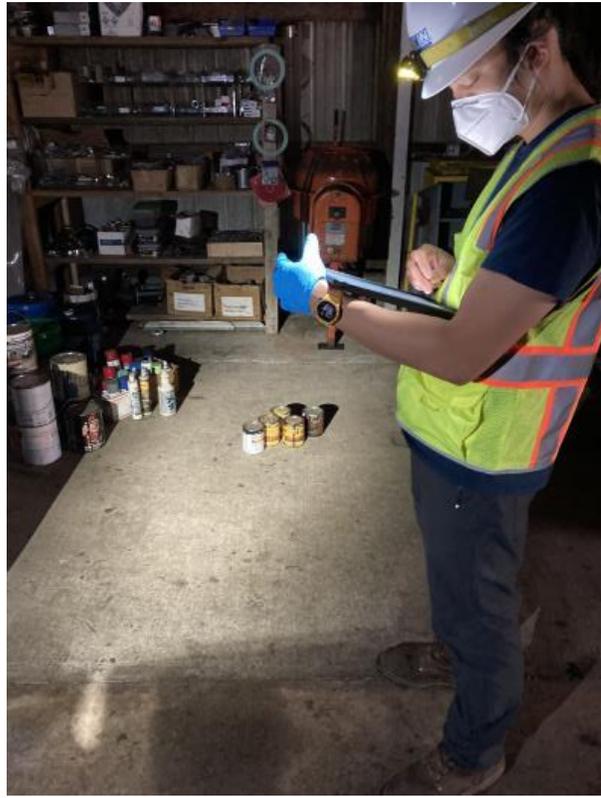
<b>Photo No.</b> <b>76</b>	<b>Date:</b> 06/15/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.574528
<b>Long</b>	-122.709031
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  START contractor collecting hazardous waste sample for field chemical identification.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>77</b>	<b>Date:</b> 06/15/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572339
<b>Long</b>	-122.729203
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  START contractor conducting hazardous waste inventory using Survey123 electronic data forms.	



<b>Photo No.</b> <b>78</b>	<b>Date:</b> 06/15/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572225
<b>Long</b>	-122.7287
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Staged totes in secondary containment in the tote staging area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>79</b>	<b>Date:</b> 06/15/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572175
<b>Long</b>	-122.729828
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  START contractor conducting field chemical identification on samples collected from inventoried hazardous waste.	



<b>Photo No.</b> <b>80</b>	<b>Date:</b> 06/16/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.57215
<b>Long</b>	-122.729011
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  START contractors setting up air monitoring equipment at the tote staging area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>81</b>	<b>Date:</b> 06/16/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572321
<b>Long</b>	-122.728635
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  Marked totes indicating pH level category in the Lean-to Area.	



<b>Photo No.</b> <b>82</b>	<b>Date:</b> 06/16/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572225
<b>Long</b>	-122.728736
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Tote staging area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>83</b>	<b>Date:</b> 06/16/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.5726
<b>Long</b>	-122.729233
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  Vacuum truck arriving on-site to pump contents from totes staged in the staging area.	



<b>Photo No.</b> <b>84</b>	<b>Date:</b> 06/16/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572147
<b>Long</b>	-122.728675
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Vacuum truck operator and ERRS contractors preparing to transfer tote contents into vacuum truck.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>85</b>	<b>Date:</b> 06/16/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572358
<b>Long</b>	-122.728761
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  Vacuum truck operator and ERRS contractors conducting waste transfer activities.	



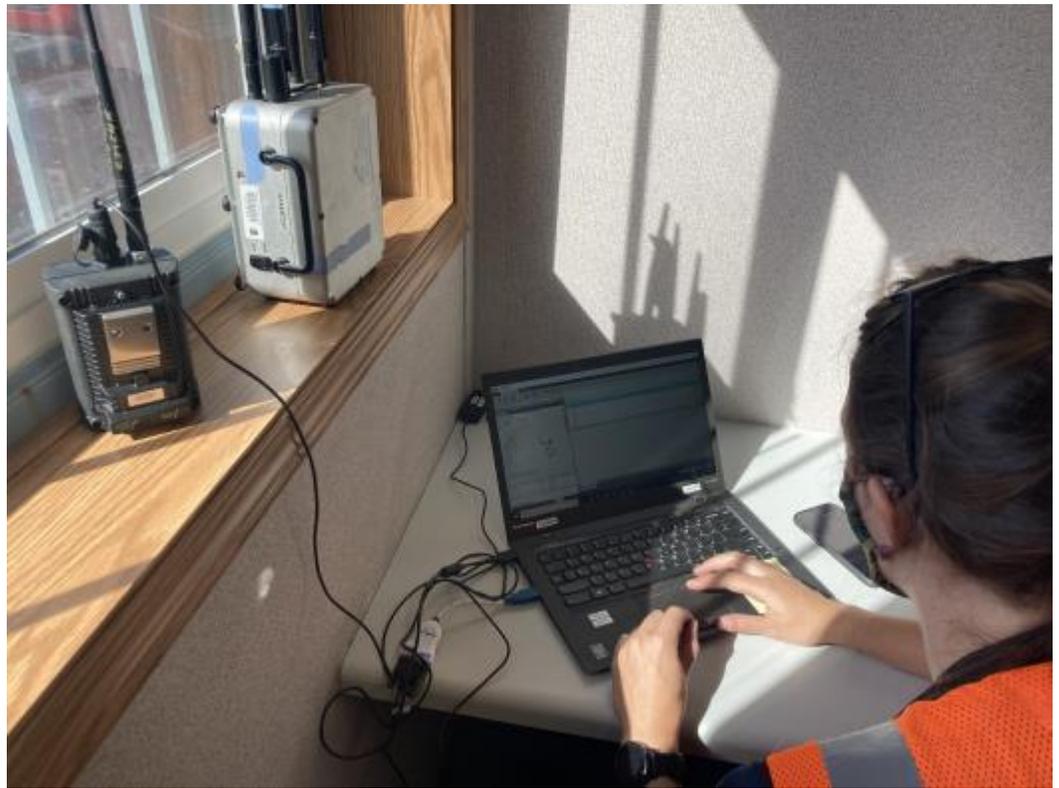
<b>Photo No.</b> <b>86</b>	<b>Date:</b> 06/16/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572375
<b>Long</b>	-122.728972
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Vacuum truck operator and ERRS contractors conducting waste transfer activities at the Lean-to Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>87</b>	<b>Date:</b> 06/16/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	
<b>Long</b>	
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  START contractor remotely monitoring air quality.	



<b>Photo No.</b> <b>88</b>	<b>Date:</b> 06/16/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572117
<b>Long</b>	-122.729181
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  ERRS contractors conducting waste transfer activities at the tote staging area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>89</b>	<b>Date:</b> 06/16/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572117
<b>Long</b>	-122.728844
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  ERRS contractors conducting waste transfer activities at the tote staging area.	



<b>Photo No.</b> <b>90</b>	<b>Date:</b> 06/16/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.57225
<b>Long</b>	-122.729072
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Roll-off dumpsters being delivered to Site.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>91</b>	<b>Date:</b> 06/16/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572167
<b>Long</b>	-122.728614
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  ERRS contractors conducting waste transfer activities at the tote staging area.	



<b>Photo No.</b> <b>92</b>	<b>Date:</b> 06/16/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572381
<b>Long</b>	-122.728819
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  Emptied totes that have been deconstructed at the Lean-to Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>93</b>	<b>Date:</b> 06/16/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572425
<b>Long</b>	-122.729011
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  ERRS contractors conducting waste transfer activities at the Lean-to Area.	



<b>Photo No.</b> <b>94</b>	<b>Date:</b> 06/16/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572381
<b>Long</b>	-122.728911
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  ERRS contractors cutting up empty totes and scraping settled material from the bottom panels.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>95</b>	<b>Date:</b> 06/16/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572394
<b>Long</b>	-122.728889
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  ERRS contractors cutting up empty totes and scraping settled material from the bottom panels.	



<b>Photo No.</b> <b>96</b>	<b>Date:</b> 06/16/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	N/A
<b>Long</b>	N/A
<b>Direction Photo Taken:</b> <b>N</b>	

<b>Description:</b>  ERRS removing totes from the Dry Kiln Building to be transferred to the staging area.	
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# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>97</b>	<b>Date:</b> 06/16/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572331
<b>Long</b>	-122.728797
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Deconstructed totes at the tote staging area.	



<b>Photo No.</b> <b>98</b>	<b>Date:</b> 06/16/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	N/A
<b>Long</b>	N/A
<b>Direction Photo Taken:</b> <b>N/A</b>	
<b>Description:</b>  Drum of biochar pulled from the Dry Kiln Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>99</b>	<b>Date:</b> 06/17/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572147
<b>Long</b>	-122.728972
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  START contractors maintaining air monitoring equipment at the tote staging area.	



<b>Photo No.</b> <b>100</b>	<b>Date:</b> 06/17/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572281
<b>Long</b>	-122.728942
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  START contractors maintaining air monitoring equipment at the tote staging area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>101</b>	<b>Date:</b> 06/17/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572311
<b>Long</b>	-122.729142
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Tank of unidentified waste that had been moved from the Dry Kiln Building to the Lean-to Area.	



<b>Photo No.</b> <b>102</b>	<b>Date:</b> 06/17/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572628
<b>Long</b>	-122.729172
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  ERRS contractors moving totes from the North Warehouse TG01 Tote Area to the tote staging area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>103</b>	<b>Date:</b> 06/18/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572515
<b>Long</b>	-122.728486
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Vacuum truck pumping out wastewater from the Secondary Containment Area.	



<b>Photo No.</b> <b>104</b>	<b>Date:</b> 06/18/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.574648
<b>Long</b>	-122.720992
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  ERRS contractors preparing to pump out wastewater from the Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>105</b>	<b>Date:</b> 06/18/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572232
<b>Long</b>	-122.72877
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Vacuum truck preparing to pump out wastewater from Secondary Containment Area.	



<b>Photo No.</b> <b>106</b>	<b>Date:</b> 06/18/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572506
<b>Long</b>	-122.728743
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  Drum of waste abandoned to the Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>107</b>	<b>Date:</b> 06/18/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	N/A
<b>Long</b>	N/A
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b> Tank being sampled at the Lean-to Area.	



<b>Photo No.</b> <b>108</b>	<b>Date:</b> 06/18/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	N/A
<b>Long</b>	N/A
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b> Waste contents inside tank being sampled.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>109</b>	<b>Date:</b> 06/19/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572301
<b>Long</b>	-122.728571
<b>Direction Photo Taken:</b> <b>SE</b>	

**Description:**  
Tote staging area.



<b>Photo No.</b> <b>110</b>	<b>Date:</b> 06/19/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572301
<b>Long</b>	-122.728571
<b>Direction Photo Taken:</b> <b>SE</b>	

**Description:**  
Deconstructed totes staged in the Lean-to Area.



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>111</b>	<b>Date:</b> 06/19/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572211
<b>Long</b>	-122.729126
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  ERRS determining appropriate waste solidification ratios in a bucket.	



<b>Photo No.</b> <b>112</b>	<b>Date:</b> 06/19/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	N/A
<b>Long</b>	N/A
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Site entrance secured at the end of a workday.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>113</b>	<b>Date:</b> 06/21/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572804
<b>Long</b>	-122.729086
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  OSC overseeing ERRS contractors removing makeshift roof covering the Secondary Containment Area.	



<b>Photo No.</b> <b>114</b>	<b>Date:</b> 06/21/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572556
<b>Long</b>	-122.728544
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  ERRS contractors removing makeshift roof over Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>115</b>	<b>Date:</b> 06/21/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572556
<b>Long</b>	-122.728544
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  ERRS contractors removing makeshift roof over Secondary Containment Area.	



<b>Photo No.</b> <b>116</b>	<b>Date:</b> 06/21/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572425
<b>Long</b>	-122.728653
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  START contractor maintaining air monitoring instrument while ERRS contractors are removing makeshift roof over Secondary Containment Area in the background.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>117</b>	<b>Date:</b> 06/21/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572586
<b>Long</b>	-122.728561
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  ERRS contractors removing makeshift roof over Secondary Containment Area.	



<b>Photo No.</b> <b>118</b>	<b>Date:</b> 06/21/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572505
<b>Long</b>	-122.728657
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Uncovered Secondary Containment Area reveals debris.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>119</b>	<b>Date:</b> 06/21/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572505
<b>Long</b>	-122.728657
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Debris, drum, and wastewater in the Secondary Containment Area.	



<b>Photo No.</b> <b>120</b>	<b>Date:</b> 06/21/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572505
<b>Long</b>	-122.728657
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Removed roofing material staged at the east-southeast end of the Site.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>121</b>	<b>Date:</b> 06/21/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572505
<b>Long</b>	-122.728657
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Removed roofing material and tote cages staged at the east-southeast end of the Site.	



<b>Photo No.</b> <b>122</b>	<b>Date:</b> 06/21/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572505
<b>Long</b>	-122.728657
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Removed roofing material and tote cages staged at the east-southeast end of the Site.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>123</b>	<b>Date:</b> 06/21/2021
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**Photo Coordinates**

<b>Lat</b>	46.572491
<b>Long</b>	-122.72864

**Direction Photo Taken:**  
**SW**

**Description:**  
  
ERRS contractors pumping out water from the Fire Station Pump House into a water buffalo.



<b>Photo No.</b> <b>124</b>	<b>Date:</b> 06/21/2021
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**Photo Coordinates**

<b>Lat</b>	46.572714
<b>Long</b>	-122.728928

**Direction Photo Taken:**  
**SE**

**Description:**  
  
Debris removed from the Secondary Containment Area staged on the concrete area just south of the sawdust storage area.



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>125</b>	<b>Date:</b> 06/21/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572678
<b>Long</b>	-122.728644
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  Debris removed from the Secondary Containment Area staged on the concrete area just south of the Wood Chip Storage Area.	



<b>Photo No.</b> <b>126</b>	<b>Date:</b> 06/21/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572569
<b>Long</b>	-122.7287
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Debris in the Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>127</b>	<b>Date:</b> 06/21/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572492
<b>Long</b>	-122.728631
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Debris being removed from the Secondary Containment Area.	



<b>Photo No.</b> <b>128</b>	<b>Date:</b> 06/21/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572464
<b>Long</b>	-122.728522
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Debris being removed from the Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>129</b>	<b>Date:</b> 06/22/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572636
<b>Long</b>	-122.728722
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  ERRS contractors preparing to determine volume of AST2.	



<b>Photo No.</b> <b>130</b>	<b>Date:</b> 06/22/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572589
<b>Long</b>	-122.728836
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  ERRS contractors determining volume of AST2.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>131</b>	<b>Date:</b> 06/22/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572619
<b>Long</b>	-122.728736
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Temporary staging area for equipment used to determine volume of an AST.	



<b>Photo No.</b> <b>132</b>	<b>Date:</b> 06/22/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572586
<b>Long</b>	-122.728722
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  ERRS contractors determining volume of AST2.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>133</b>	<b>Date:</b> 06/23/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572436
<b>Long</b>	-122.728669
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  ERRS contractors preparing to transfer wood vinegar from AST1.	



<b>Photo No.</b> <b>134</b>	<b>Date:</b> 06/23/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572411
<b>Long</b>	-122.728692
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  ERRS contractors transferring wood vinegar from AST1.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>135</b>	<b>Date:</b> 06/23/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.57235
<b>Long</b>	-122.728714
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  ERRS contractors conducting waste transfer activities at the tote staging area.	



<b>Photo No.</b> <b>136</b>	<b>Date:</b> 06/23/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572617
<b>Long</b>	-122.728792
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  ERRS contractors determining volume of AST5.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>137</b>	<b>Date:</b> 06/23/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572533
<b>Long</b>	-122.728844
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  ERRS contractors determining volume of AST5.	



<b>Photo No.</b> <b>138</b>	<b>Date:</b> 06/23/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572261
<b>Long</b>	-122.729072
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  ERRS contractors cutting up empty totes and deconstructing tote cages.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>139</b>	<b>Date:</b> 06/23/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572261
<b>Long</b>	-122.728622
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  ERRS contractors deconstructing tote cages.	



<b>Photo No.</b> <b>140</b>	<b>Date:</b> 06/23/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572361
<b>Long</b>	-122.728661
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  ERRS contractors scraping the bottom panel of a cut up tote.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>141</b>	<b>Date:</b> 06/23/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.571894
<b>Long</b>	-122.728989
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  ERRS contractor wetting a high traffic corridor to suppress dust.	



<b>Photo No.</b> <b>142</b>	<b>Date:</b> 06/23/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.561347
<b>Long</b>	-122.692131
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Entrance to processing equipment in the Pyrolysis Building taped off to block access.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>143</b>	<b>Date:</b> 06/23/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572783
<b>Long</b>	-122.728508
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  ASTs in the Secondary Containment that have been marked for inventory.	



<b>Photo No.</b> <b>144</b>	<b>Date:</b> 06/23/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572467
<b>Long</b>	-122.729514
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  ERRS contractor moving a tote from the South Warehouse TG02 Tote Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.:</b> 68HE0721F0069
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<b>Photo No.</b> <b>145</b>	<b>Date:</b> 06/24/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.598594
<b>Long</b>	-122.759231
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  START contractor calibrating air monitoring instrument.	



<b>Photo No.</b> <b>146</b>	<b>Date:</b> 06/24/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572436
<b>Long</b>	-122.728608
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Middle section of AST1 being cut off from the top section.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>147</b>	<b>Date:</b> 06/24/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572414
<b>Long</b>	-122.728736
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  Middle section of AST1 is being cut up by an ERRS contractor. The top section is being raised back over the remaining AST1 to cover.	



<b>Photo No.</b> <b>148</b>	<b>Date:</b> 06/24/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572503
<b>Long</b>	-122.728447
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Top of AST1 being removed to have another middle section cut off.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>149</b>	<b>Date:</b> 06/24/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572308
<b>Long</b>	-122.728522
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  The top section is being raised back over the remaining AST1 to cover.	



<b>Photo No.</b> <b>150</b>	<b>Date:</b> 06/24/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572406
<b>Long</b>	-122.728706
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Middle section of AST1 is being cut up by ERRS contractors.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>151</b>	<b>Date:</b> 06/24/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572636
<b>Long</b>	-122.728561
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  ERRS contractors preparing to cut up AST2.	



<b>Photo No.</b> <b>152</b>	<b>Date:</b> 06/24/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572675
<b>Long</b>	-122.728317
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Top of AST2 being removed to have middle section cut off.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>153</b>	<b>Date:</b> 06/24/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572583
<b>Long</b>	-122.728806
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  AST1 and AST2 remain covered with middle sections removed. AST3 and AST5 have not undergone demolition.	



<b>Photo No.</b> <b>154</b>	<b>Date:</b> 06/24/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572783
<b>Long</b>	-122.729347
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  ERRS contractors receiving shipment of supplies.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>155</b>	<b>Date:</b> 06/24/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572628
<b>Long</b>	-122.729242
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  ERRS contractors moving totes from South Warehouse TG02 Tote Area.	



<b>Photo No.</b> <b>156</b>	<b>Date:</b> 06/25/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572511
<b>Long</b>	-122.728622
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  ERRS contractor applying diesel to excavator bucket within the Secondary Containment Area to assist with moving/grabbing of wood tar.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>157</b>	<b>Date:</b> 06/25/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572578
<b>Long</b>	-122.728775
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  ERRS contractors removing debris from under AST platforms.	



<b>Photo No.</b> <b>158</b>	<b>Date:</b> 06/25/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572494
<b>Long</b>	-122.729033
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  ERRS contractors removing debris from under AST platforms.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>159</b>	<b>Date:</b> 06/25/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572444
<b>Long</b>	-122.728775
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  ERRS contractors removing debris from under AST platforms.	



<b>Photo No.</b> <b>160</b>	<b>Date:</b> 06/25/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572569
<b>Long</b>	-122.728911
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  ERRS contractors removing debris from under AST platforms.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>161</b>	<b>Date:</b> 06/25/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572578
<b>Long</b>	-122.728942
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  ERRS contractors mixing solidification material in with sludge left in the Secondary Containment Area.	



<b>Photo No.</b> <b>162</b>	<b>Date:</b> 06/25/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572631
<b>Long</b>	-122.728806
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  ERRS contractor using excavator to solidify, scrape, and remove sludge from the Secondary Containment Area. Drum left inside containment has been emptied.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>163</b>	<b>Date:</b> 06/25/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572608
<b>Long</b>	-122.728767
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  ERRS contractor using excavator to solidify, scrape, and remove sludge from the Secondary Containment Area.	



<b>Photo No.</b> <b>164</b>	<b>Date:</b> 06/25/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572564
<b>Long</b>	-122.728714
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  ERRS contractor using excavator to remove solidified material and debris.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>165</b>	<b>Date:</b> 06/25/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572681
<b>Long</b>	-122.728783
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  Roll-off container filled with debris.	



<b>Photo No.</b> <b>166</b>	<b>Date:</b> 06/26/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572586
<b>Long</b>	-122.728775
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  ERRS contractors mixing solidification material in with sludge left in the Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>167</b>	<b>Date:</b> 06/26/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572542
<b>Long</b>	-122.728456
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Bucket and solidification material staged outside of the Secondary Containment Area. Excavator is building a berm around AST1 to catch sludge that will be released once demolished.	



<b>Photo No.</b> <b>168</b>	<b>Date:</b> 06/26/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572556
<b>Long</b>	-122.728608
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  Staged solidification material outside of the Secondary Containment Area. Excavator is building a berm around AST1 to catch sludge that will be released once demolished.	



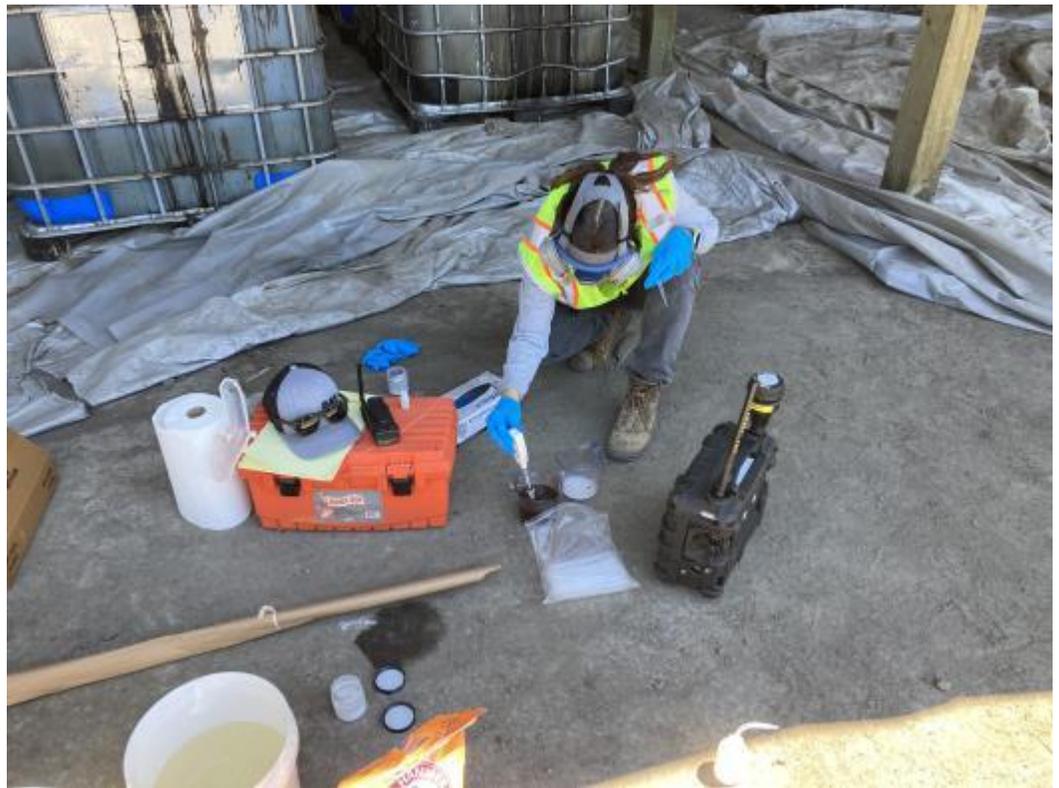
# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>169</b>	<b>Date:</b> 06/26/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572639
<b>Long</b>	-122.7287
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  The remainder of AST1 being demolished within the berm area.	



<b>Photo No.</b> <b>170</b>	<b>Date:</b> 06/26/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.598553
<b>Long</b>	-122.759186
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  ERRS contractor determining pH of balanced liquid NaOH and wood vinegar for disposal purposes.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>171</b>	<b>Date:</b> 06/28/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572533
<b>Long</b>	-122.728989
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Secondary Containment Area. Darker material on the right is solidified AST1 sludge material. Lighter material on the left has not been mixed with sludge.	



<b>Photo No.</b> <b>172</b>	<b>Date:</b> 06/28/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.598586
<b>Long</b>	-122.759225
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Platform of AST1 removed from the Secondary Containment Area and covered with plastic.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>173</b>	<b>Date:</b> 06/28/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572494
<b>Long</b>	-122.7286
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  AST1 sludge material being further solidified.	



<b>Photo No.</b> <b>174</b>	<b>Date:</b> 06/28/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572289
<b>Long</b>	-122.729233
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  ERRS contractor wetting a high traffic corridor to suppress dust.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.:</b> 68HE0721F0069
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<b>Photo No.</b> <b>175</b>	<b>Date:</b> 06/28/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572608
<b>Long</b>	-122.728644
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  ERRS contractors cutting up the top of AST2.	



<b>Photo No.</b> <b>176</b>	<b>Date:</b> 06/28/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572617
<b>Long</b>	-122.728692
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  ERRS contractors cutting up the base of AST2.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>177</b>	<b>Date:</b> 06/28/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572589
<b>Long</b>	-122.728631
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  AST2 sludge material being solidified and consolidated.	



<b>Photo No.</b> <b>178</b>	<b>Date:</b> 06/28/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572442
<b>Long</b>	-122.7286
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  AST2 platform stacked on top of AST1 platform. AST2 sludge material being solidified and consolidated inside Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>179</b>	<b>Date:</b> 06/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572533
<b>Long</b>	-122.729181
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  ERRS contractor transferring tote to the Secondary Containment Area.	



<b>Photo No.</b> <b>180</b>	<b>Date:</b> 06/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.5724
<b>Long</b>	-122.728592
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  AST2 sludge material being solidified and consolidated.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>181</b>	<b>Date:</b> 06/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572361
<b>Long</b>	-122.728531
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Totes being emptied into the Secondary Containment Area to be solidified.	



<b>Photo No.</b> <b>182</b>	<b>Date:</b> 06/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572433
<b>Long</b>	-122.728469
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  Totes being emptied into the Secondary Containment Area to be solidified.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>183</b>	<b>Date:</b> 06/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572464
<b>Long</b>	-122.728569
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  Sorbent being spread onto contaminant coated tote cages.	



<b>Photo No.</b> <b>184</b>	<b>Date:</b> 06/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572475
<b>Long</b>	-122.7285
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Totes being emptied into the Secondary Containment Area to solidify contents.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>185</b>	<b>Date:</b> 06/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572625
<b>Long</b>	-122.728783
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Totes being emptied into the Secondary Containment Area to solidify contents.	



<b>Photo No.</b> <b>186</b>	<b>Date:</b> 06/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572453
<b>Long</b>	-122.728622
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Totes being emptied into the Secondary Containment Area to solidify contents.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>187</b>	<b>Date:</b> 06/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572433
<b>Long</b>	-122.7286
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  ERRS contractors testing pH balancing on wood vinegar waste with liquid NaOH solution.	



<b>Photo No.</b> <b>188</b>	<b>Date:</b> 06/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572636
<b>Long</b>	-122.728753
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Emptied totes in the Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>189</b>	<b>Date:</b> 06/30/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572403
<b>Long</b>	-122.728644
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Tote sludge material being solidified and consolidated.	



<b>Photo No.</b> <b>190</b>	<b>Date:</b> 06/30/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572731
<b>Long</b>	-122.728661
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  ERRS contractors pumping out material from AST3.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>191</b>	<b>Date:</b> 06/30/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572617
<b>Long</b>	-122.728547
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  Cut up totes staged in the foreground. Tote sludge material being solidified and consolidated in the middle ground. ERRS contractors pumping out material from AST3 in the background.	



<b>Photo No.</b> <b>192</b>	<b>Date:</b> 06/30/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572133
<b>Long</b>	-122.728761
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  ERRS contractors conducting waste transfer activities.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>193</b>	<b>Date:</b> 06/30/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572353
<b>Long</b>	-122.728583
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  Excavator is moving cut up totes from Secondary Containment Area to a staging area just outside of containment.	



<b>Photo No.</b> <b>194</b>	<b>Date:</b> 06/30/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572783
<b>Long</b>	-122.729431
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Monitoring equipment being set up to charge overnight in the START trailer.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>195</b>	<b>Date:</b> 07/01/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572581
<b>Long</b>	-122.729228
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Hazardous waste that has been consolidated into appropriate Department of Transportation (DOT) containers.	



<b>Photo No.</b> <b>196</b>	<b>Date:</b> 07/01/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.57245
<b>Long</b>	-122.7285
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Solidification material being dumped into the Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>197</b>	<b>Date:</b> 07/01/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572592
<b>Long</b>	-122.729214
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Sludge material being solidified and consolidated.	



<b>Photo No.</b> <b>198</b>	<b>Date:</b> 07/01/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572256
<b>Long</b>	-122.729186
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  Totes staged at the Lean-to Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>199</b>	<b>Date:</b> 07/02/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572406
<b>Long</b>	-122.728764
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  ERRS contractors removing cut-up totes and debris from Secondary Containment Area.	



<b>Photo No.</b> <b>200</b>	<b>Date:</b> 07/02/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572589
<b>Long</b>	-122.729222
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  Excavator transferring cut up totes and debris from Secondary Containment Area into roll-off containers.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>201</b>	<b>Date:</b> 07/02/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572119
<b>Long</b>	-122.729589
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  ERRS contractor preparing a drum to be lifted into an overpack drum at the North Warehouse.	



<b>Photo No.</b> <b>202</b>	<b>Date:</b> 07/02/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572181
<b>Long</b>	-122.729933
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  ERRS contractors lowering a drum into an overpack drum at the North Warehouse.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>203</b>	<b>Date:</b> 07/02/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572181
<b>Long</b>	-122.729933
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b> ERRS contractors lowering a drum into an overpack drum at the North Warehouse.	



<b>Photo No.</b> <b>204</b>	<b>Date:</b> 07/02/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572592
<b>Long</b>	-122.729222
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b> ERRS contractors lifting a drum to be placed into an overpack drum at the Dry Kiln Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>205</b>	<b>Date:</b> 07/02/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572589
<b>Long</b>	-122.729222
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  ERRS contractors preparing to seal an overpack drum.	



<b>Photo No.</b> <b>206</b>	<b>Date:</b> 07/02/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572514
<b>Long</b>	-122.728908
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  ERRS contractors preparing to demolish AST4 at the Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>207</b>	<b>Date:</b> 07/02/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572603
<b>Long</b>	-122.728686
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Roll-off container with cut up tote panels staged outside of Secondary Containment Area.	



<b>Photo No.</b> <b>208</b>	<b>Date:</b> 07/02/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572217
<b>Long</b>	-122.7295
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  ERRS contractors preparing a drum to be moved to an overpack drum.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>209</b>	<b>Date:</b> 07/06/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572589
<b>Long</b>	-122.729211
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  ERRS contractors sealing an overpack drum at the Dry Kiln Building.	



<b>Photo No.</b> <b>210</b>	<b>Date:</b> 07/06/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572586
<b>Long</b>	-122.729225
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  Interior of the Dry Kiln Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>211</b>	<b>Date:</b> 07/06/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572111
<b>Long</b>	-122.729603
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Overpack drums staged in the North Warehouse.	



<b>Photo No.</b> <b>212</b>	<b>Date:</b> 07/06/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572164
<b>Long</b>	-122.729275
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  ERRS contractors taking inventory of waste remaining in the Dry Kiln Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>213</b>	<b>Date:</b> 07/06/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572564
<b>Long</b>	-122.729392
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  DOT containerized waste staged outside of the Pyrolysis Building for pick-up.	



<b>Photo No.</b> <b>214</b>	<b>Date:</b> 07/06/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572608
<b>Long</b>	-122.729214
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  ERRS contractors loading DOT containerized waste onto a truck to be delivered to the appropriate waste disposal facility.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>215</b>	<b>Date:</b> 07/06/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572608
<b>Long</b>	-122.729214
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  ERRS contractors loading DOT containerized waste onto a truck to be delivered to the appropriate waste disposal facility.	



<b>Photo No.</b> <b>216</b>	<b>Date:</b> 07/06/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572589
<b>Long</b>	-122.729222
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  ERRS contractors loading an overpack drum onto a truck to be delivered to the appropriate waste disposal facility.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>217</b>	<b>Date:</b> 07/06/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572472
<b>Long</b>	-122.729114
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  ERRS contractors loading an overpack drum onto a truck to be delivered to the appropriate waste disposal facility.	



<b>Photo No.</b> <b>218</b>	<b>Date:</b> 07/06/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572636
<b>Long</b>	-122.728878
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  ERRS contractors demolishing AST3 at the Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>219</b>	<b>Date:</b> 07/06/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572686
<b>Long</b>	-122.728742
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Sludge material being solidified and consolidated.	



<b>Photo No.</b> <b>220</b>	<b>Date:</b> 07/06/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572586
<b>Long</b>	-122.729233
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  ERRS contractors emptying containers to be solidified at the Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>221</b>	<b>Date:</b> 07/06/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572586
<b>Long</b>	-122.729214
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Sludge material being solidified and consolidated.	



<b>Photo No.</b> <b>222</b>	<b>Date:</b> 07/06/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572589
<b>Long</b>	-122.729222
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  ERRS contractors collecting a sample from a tote stage at the Lean-to Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>223</b>	<b>Date:</b> 07/06/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572603
<b>Long</b>	-122.729197
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  ERRS contractors collecting a sample from a tote staged at the Lean-to Area. Sample was to be used to check pH level.	



<b>Photo No.</b> <b>224</b>	<b>Date:</b> 07/08/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572292
<b>Long</b>	-122.72885
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  ERRS contractors at the tote staging area pumping NaOH into a tote of wood vinegar raise the pH to 6.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>225</b>	<b>Date:</b> 07/08/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.57225
<b>Long</b>	-122.728936
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  ERRS contractors at the tote staging area pumping NaOH into a tote of wood vinegar to raise the pH to 6.	



<b>Photo No.</b> <b>226</b>	<b>Date:</b> 07/08/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572333
<b>Long</b>	-122.729181
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  ERRS contractors assembling a sock filtration system to prevent wood tar solids from being pumped into vacuum trucks.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>227</b>	<b>Date:</b> 07/09/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.57235
<b>Long</b>	-122.729194
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  ERRS contractors pumping pH balanced wood vinegar from totes, through the sock filtration system, and into a vacuum truck.	



<b>Photo No.</b> <b>228</b>	<b>Date:</b> 07/09/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572292
<b>Long</b>	-122.728753
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  ERRS contractors pumping pH balanced wood vinegar from totes, through the sock filtration system, and into a vacuum truck.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>229</b>	<b>Date:</b> 07/09/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572258
<b>Long</b>	-122.728906
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  ERRS contractors pumping pH balanced wood vinegar from totes, through the sock filtration system, and into a vacuum truck. Secondary containment has been constructed around the sock filtration system.	



<b>Photo No.</b> <b>230</b>	<b>Date:</b> 07/09/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572239
<b>Long</b>	-122.728911
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  ERRS contractors pumping pH balanced wood vinegar from totes, through the sock filtration system, and into a vacuum truck. Filtered solids staged at the edge of secondary containment in the immediate foreground.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>231</b>	<b>Date:</b> 07/09/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572239
<b>Long</b>	-122.728889
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  ERRS contractors conducting waste transfer activities.	



<b>Photo No.</b> <b>232</b>	<b>Date:</b> 07/09/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.57235
<b>Long</b>	-122.728797
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  ERRS contractors conducting waste transfer activities.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>233</b>	<b>Date:</b> 07/09/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572281
<b>Long</b>	-122.728889
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  ERRS contractors pumping pH balanced wood vinegar from totes, through the sock filtration system, and into a vacuum truck.	



<b>Photo No.</b> <b>234</b>	<b>Date:</b> 07/09/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572369
<b>Long</b>	-122.728631
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Solidified waste inside the Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>235</b>	<b>Date:</b> 07/09/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572339
<b>Long</b>	-122.728906
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  ERRS contractors emptying the sock filtration system into a cut bottom of a tote at the tote staging area.	



<b>Photo No.</b> <b>236</b>	<b>Date:</b> 07/10/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572567
<b>Long</b>	-122.728775
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  ERRS contractors determining the volume and pH of AST5 at the Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>237</b>	<b>Date:</b> 07/10/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572411
<b>Long</b>	-122.728631
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  ERRS contractor preparing to mix wood vinegar with liquid NaOH in order to balance to pH of 6.	



<b>Photo No.</b> <b>238</b>	<b>Date:</b> 07/10/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572425
<b>Long</b>	-122.728714
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  ERRS contractor preparing to mix wood vinegar with liquid NaOH in order to balance to pH of 6.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>239</b>	<b>Date:</b> 07/10/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572481
<b>Long</b>	-122.728631
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  Excavator demolishing the remainder of AST3.	



<b>Photo No.</b> <b>240</b>	<b>Date:</b> 07/12/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572486
<b>Long</b>	-122.728508
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  Emptied totes staged south of the Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>241</b>	<b>Date:</b> 07/12/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572403
<b>Long</b>	-122.728522
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  Tote staging area.	



<b>Photo No.</b> <b>242</b>	<b>Date:</b> 07/12/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572175
<b>Long</b>	-122.728875
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  ERRS contractors mixing tote wood vinegar with liquid NaOH in order to balance to pH of 6.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>243</b>	<b>Date:</b> 07/12/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572189
<b>Long</b>	-122.728875
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  ERRS contractors mixing tote wood vinegar with liquid NaOH in order to balance to pH of 6.	



<b>Photo No.</b> <b>244</b>	<b>Date:</b> 07/13/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572644
<b>Long</b>	-122.728819
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  ERRS contractors pumping waste from AST5, through the sock filtration system, and into a vacuum truck.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>245</b>	<b>Date:</b> 07/13/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572608
<b>Long</b>	-122.728683
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  ERRS contractors pumping waste from AST5, through the sock filtration system, and into a vacuum truck.	



<b>Photo No.</b> <b>246</b>	<b>Date:</b> 07/13/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.592225
<b>Long</b>	-122.753608
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  ERRS contractor removing cut up tote panels from Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>247</b>	<b>Date:</b> 07/13/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572314
<b>Long</b>	-122.728792
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  ERRS contractors pumping pH balanced wood vinegar from totes, through the sock filtration system, and into a vacuum truck.	



<b>Photo No.</b> <b>248</b>	<b>Date:</b> 07/13/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572511
<b>Long</b>	-122.728492
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  Excavator demolishing AST5.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>249</b>	<b>Date:</b> 07/13/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572547
<b>Long</b>	-122.728517
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Excavator removing the AST5 platform from the Secondary Containment Area.	



<b>Photo No.</b> <b>250</b>	<b>Date:</b> 07/13/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572578
<b>Long</b>	-122.728806
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Excavator demolishing AST5.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>251</b>	<b>Date:</b> 07/13/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572139
<b>Long</b>	-122.728942
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  ERRS contractor measuring the pH of waste in a tote after NaOH application.	



<b>Photo No.</b> <b>252</b>	<b>Date:</b> 07/13/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572492
<b>Long</b>	-122.728522
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Excavator demolishing AST5.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>253</b>	<b>Date:</b> 07/13/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.5726
<b>Long</b>	-122.728797
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  ERRS contractor cutting up AST5.	



<b>Photo No.</b> <b>254</b>	<b>Date:</b> 07/13/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572486
<b>Long</b>	-122.728622
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  Solidified material, debris, and an AST platform in the Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>255</b>	<b>Date:</b> 07/13/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572169
<b>Long</b>	-122.730233
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  ERRS contractor investigating debris found in a clearing.	



<b>Photo No.</b> <b>256</b>	<b>Date:</b> 07/13/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572617
<b>Long</b>	-122.728608
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  ERRS contractor cutting up an AST platform inside the Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>257</b>	<b>Date:</b> 07/13/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572514
<b>Long</b>	-122.728531
<b>Direction Photo Taken:</b> NW	
<b>Description:</b>  ERRS contractors at the Lean-to Area pumping NaOH into a tank to raise the pH of the waste.	



<b>Photo No.</b> <b>258</b>	<b>Date:</b> 07/13/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572778
<b>Long</b>	-122.729339
<b>Direction Photo Taken:</b> NE	
<b>Description:</b>  Tank with its outer wall marked with new adjusted pH value.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>259</b>	<b>Date:</b> 07/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572303
<b>Long</b>	-122.728875
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  ERRS contractors pumping pH balanced wood vinegar from totes, through the sock filtration system, and into a vacuum truck.	



<b>Photo No.</b> <b>260</b>	<b>Date:</b> 07/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572742
<b>Long</b>	-122.728706
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Excavator removing debris from the Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>261</b>	<b>Date:</b> 07/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572208
<b>Long</b>	-122.729286
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  EPA and ERRS contractors inspecting the interior of the Dry Kiln Building.	



<b>Photo No.</b> <b>262</b>	<b>Date:</b> 07/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.569303
<b>Long</b>	-122.714431
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  EPA and ERRS contractors inspecting the interior of the North Warehouse.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>263</b>	<b>Date:</b> 07/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572578
<b>Long</b>	-122.728767
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Totes being emptied into the Secondary Containment Area to be solidified.	



<b>Photo No.</b> <b>264</b>	<b>Date:</b> 07/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572567
<b>Long</b>	-122.728675
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Totes being emptied into the Secondary Containment Area to be solidified.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>265</b>	<b>Date:</b> 07/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572675
<b>Long</b>	-122.728783
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Totes being emptied into the Secondary Containment Area to be solidified.	



<b>Photo No.</b> <b>266</b>	<b>Date:</b> 07/14/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572569
<b>Long</b>	-122.728806
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Excavator solidifying tote sludge in the Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>267</b>	<b>Date:</b> 07/15/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572556
<b>Long</b>	-122.728714
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  ERRS contractor power washing sludge off deconstructed tote cages.	



<b>Photo No.</b> <b>268</b>	<b>Date:</b> 07/15/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572517
<b>Long</b>	-122.728583
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Totes being emptied into the Secondary Containment Area to be solidified.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>269</b>	<b>Date:</b> 07/16/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572625
<b>Long</b>	-122.728753
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Totes being emptied into the Secondary Containment Area to be solidified.	



<b>Photo No.</b> <b>270</b>	<b>Date:</b> 07/16/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572497
<b>Long</b>	-122.728325
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Totes being emptied into the Secondary Containment Area to be solidified.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>271</b>	<b>Date:</b> 07/16/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572419
<b>Long</b>	-122.728653
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Excavator solidifying tote sludge in Secondary Containment Area.	



<b>Photo No.</b> <b>272</b>	<b>Date:</b> 07/16/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572614
<b>Long</b>	-122.729225
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  Excavator moving wood chips from the Wood Chip Storage Area to the Secondary Containment Area to be used for solidification activities.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>273</b>	<b>Date:</b> 07/16/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572692
<b>Long</b>	-122.728608
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Excavator solidifying tote sludge in Secondary Containment Area.	



<b>Photo No.</b> <b>274</b>	<b>Date:</b> 07/16/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572506
<b>Long</b>	-122.728653
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Excavator solidifying tote sludge in Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>275</b>	<b>Date:</b> 07/19/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572322
<b>Long</b>	-122.729125
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Biochar being staged at the Lean-to Area for later disposal by Washington Department of Ecology (Ecology).	



<b>Photo No.</b> <b>276</b>	<b>Date:</b> 07/19/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572167
<b>Long</b>	-122.729133
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Tank moved from Lean-to Area to tote staging area to be pumped into a vacuum truck.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>277</b>	<b>Date:</b> 07/19/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572281
<b>Long</b>	-122.729033
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  ERRS contractors pumping pH balanced wood vinegar from a tank, through the sock filtration system, and into a vacuum truck.	



<b>Photo No.</b> <b>278</b>	<b>Date:</b> 07/19/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572403
<b>Long</b>	-122.728683
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Excavator solidifying tote sludge in Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>279</b>	<b>Date:</b> 07/19/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572175
<b>Long</b>	-122.729111
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Tote staging area cleared of staged totes.	



<b>Photo No.</b> <b>280</b>	<b>Date:</b> 07/19/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572444
<b>Long</b>	-122.728653
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Excavator solidifying tote sludge in Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>281</b>	<b>Date:</b> 07/19/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572186
<b>Long</b>	-122.729003
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  Tote staging area cleared of totes and secondary containment.	



<b>Photo No.</b> <b>282</b>	<b>Date:</b> 07/19/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572589
<b>Long</b>	-122.72885
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  ERRS contractors demolishing totes in Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>283</b>	<b>Date:</b> 07/19/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.598983
<b>Long</b>	-122.761125
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  ERRS contractors demolishing totes in Secondary Containment Area.	



<b>Photo No.</b> <b>284</b>	<b>Date:</b> 07/19/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572517
<b>Long</b>	-122.729172
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Loaded roll-off containers being towed off Site to the appropriate waste disposal facility.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.:</b> 68HE0721F0069
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<b>Photo No.</b> <b>285</b>	<b>Date:</b> 07/19/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572656
<b>Long</b>	-122.728225
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  ERRS contractor pressure washing the sock filtration system inside the Secondary Containment Area.	



<b>Photo No.</b> <b>286</b>	<b>Date:</b> 07/19/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572681
<b>Long</b>	-122.728547
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  ERRS contractor pressure washing the sock filtration system inside the Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>287</b>	<b>Date:</b> 07/20/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572578
<b>Long</b>	-122.728836
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  ERRS cutting up AST4 in the Secondary Containment Area.	



<b>Photo No.</b> <b>288</b>	<b>Date:</b> 07/20/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572128
<b>Long</b>	-122.728967
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  ERRS contractors grading the tote staging area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>289</b>	<b>Date:</b> 07/20/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572647
<b>Long</b>	-122.728972
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  ERRS contractors power washing the excavator.	



<b>Photo No.</b> <b>290</b>	<b>Date:</b> 07/21/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572436
<b>Long</b>	-122.729028
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Vacuum truck that arrived back on Site due to wood tar blocking the valve of the tank.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>291</b>	<b>Date:</b> 07/21/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572281
<b>Long</b>	-122.728761
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  ERRS contractors prepare to conduct confined space entry into the tank of the vacuum truck to clean out the wood tar blocking the tank valve.	



<b>Photo No.</b> <b>292</b>	<b>Date:</b> 07/21/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572283
<b>Long</b>	-122.72885
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  ERRS contractors prepare to conduct confined space entry into the tank of the vacuum truck to clean out the wood tar blocking the tank valve.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>293</b>	<b>Date:</b> 07/21/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572267
<b>Long</b>	-122.729103
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Vacuum truck stationed at the former tote staging area for cleaning.	



<b>Photo No.</b> <b>294</b>	<b>Date:</b> 07/21/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572803
<b>Long</b>	-122.728133
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Vacuum truck stationed at the former tote staging area for cleaning.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>295</b>	<b>Date:</b> 07/21/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572497
<b>Long</b>	-122.728631
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Secondary Containment Area cleared of all ASTs.	



<b>Photo No.</b> <b>296</b>	<b>Date:</b> 07/21/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572619
<b>Long</b>	-122.728792
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  ERRS contractors building a berm to prepare for excavator bucket decontamination.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>297</b>	<b>Date:</b> 07/21/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.5726
<b>Long</b>	-122.728753
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  ERRS contractor decontaminating the excavator bucket inside the Secondary Containment Area.	



<b>Photo No.</b> <b>298</b>	<b>Date:</b> 07/21/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572578
<b>Long</b>	-122.728806
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  ERRS contractor power washing the Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>299</b>	<b>Date:</b> 07/21/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572433
<b>Long</b>	-122.728639
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  ERRS contractor power washing the Secondary Containment Area.	



<b>Photo No.</b> <b>300</b>	<b>Date:</b> 07/21/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572567
<b>Long</b>	-122.728653
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  ERRS contractor power washing the Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>301</b>	<b>Date:</b> 07/21/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.5726
<b>Long</b>	-122.728792
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  ERRS contractor decontaminating the skidsteer.	



<b>Photo No.</b> <b>302</b>	<b>Date:</b> 07/22/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572547
<b>Long</b>	-122.728775
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  ERRS contractor solidifying power washing water.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>303</b>	<b>Date:</b> 07/22/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572403
<b>Long</b>	-122.72885
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  ERRS contractor power washing the Secondary Containment Area.	



<b>Photo No.</b> <b>304</b>	<b>Date:</b> 07/22/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572425
<b>Long</b>	-122.728792
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Clean Harbors contractors preparing to clean out the tank of the vacuum truck with EPA oversight.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>305</b>	<b>Date:</b> 07/22/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.5722
<b>Long</b>	-122.728881
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  Clean Harbors contractors prepare to conduct confined space entry into the tank of the vacuum truck to clean out the wood tar blocking the tank valve.	



<b>Photo No.</b> <b>306</b>	<b>Date:</b> 07/22/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572269
<b>Long</b>	-122.728775
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  Clean Harbors contractors prepare to conduct confined space entry into the tank of the vacuum truck to clean out the wood tar blocking the tank valve.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>307</b>	<b>Date:</b> 07/22/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572444
<b>Long</b>	-122.729089
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Clean Harbors contractors prepare to conduct confined space entry into the tank of the vacuum truck to clean out the wood tar blocking the tank valve.	



<b>Photo No.</b> <b>308</b>	<b>Date:</b> 07/22/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572339
<b>Long</b>	-122.728661
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Excavator demolishing the Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>309</b>	<b>Date:</b> 07/22/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572228
<b>Long</b>	-122.72905
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Clean Harbors contractors prepare to conduct confined space entry into the tank of the vacuum truck to clean out the wood tar blocking the tank valve.	



<b>Photo No.</b> <b>310</b>	<b>Date:</b> 07/22/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572419
<b>Long</b>	-122.728639
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Excavator demolishing the Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>311</b>	<b>Date:</b> 07/22/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572411
<b>Long</b>	-122.728461
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Demolished Secondary Containment Area.	



<b>Photo No.</b> <b>312</b>	<b>Date:</b> 07/22/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572117
<b>Long</b>	-122.729011
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Clean Harbors contractors conducting confined space entry into the tank of the vacuum truck to clean out the wood tar blocking the tank valve.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>313</b>	<b>Date:</b> 07/22/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572644
<b>Long</b>	-122.728753
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Demolished Secondary Containment Area.	



<b>Photo No.</b> <b>314</b>	<b>Date:</b> 07/22/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572464
<b>Long</b>	-122.728469
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  Demolished Secondary Containment Area. ERRS contractor is power washing the concrete pad area north of the Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>315</b>	<b>Date:</b> 07/23/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572636
<b>Long</b>	-122.729203
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  Roll-off containers being picked up to be delivered to the appropriate disposal facilities.	



<b>Photo No.</b> <b>316</b>	<b>Date:</b> 07/23/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572206
<b>Long</b>	-122.728792
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Clean Harbors contractors conducting confined space entry into the tank of the vacuum truck to clean out the wood tar blocking the tank valve.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>317</b>	<b>Date:</b> 07/23/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572225
<b>Long</b>	-122.729217
<b>Direction Photo Taken:</b> N/A	
<b>Description:</b>  Multigas detector used for confined space entry activities.	



<b>Photo No.</b> <b>318</b>	<b>Date:</b> 07/23/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572711
<b>Long</b>	-122.728653
<b>Direction Photo Taken:</b> SE	
<b>Description:</b>  Decontaminated and demolished Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>319</b>	<b>Date:</b> 07/23/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572206
<b>Long</b>	-122.728997
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Confined space entry tripod with winch deployed over the tank manhole.	



<b>Photo No.</b> <b>320</b>	<b>Date:</b> 07/23/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572372
<b>Long</b>	-122.7287
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Clean Harbors contractors conducting confined space entry into the tank of the vacuum truck to clean out the wood tar blocking the tank valve.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>321</b>	<b>Date:</b> 07/23/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572431
<b>Long</b>	-122.728753
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Clean Harbors contractors conducting confined space entry into the tank of the vacuum truck to clean out the wood tar blocking the tank valve.	



<b>Photo No.</b> <b>322</b>	<b>Date:</b> 07/23/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572083
<b>Long</b>	-122.728997
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Clean Harbors contractors conducting confined space entry into the tank of the vacuum truck to clean out the wood tar blocking the tank valve.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>323</b>	<b>Date:</b> 07/23/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572528
<b>Long</b>	-122.728919
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Clean Harbors contractors conducting confined space entry into the tank of the vacuum truck to clean out the wood tar blocking the tank valve.	



<b>Photo No.</b> <b>324</b>	<b>Date:</b> 07/23/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.599086
<b>Long</b>	-122.761244
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Clean Harbors contractors conducting confined space entry into the tank of the vacuum truck to clean out the wood tar blocking the tank valve.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>325</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572808
<b>Long</b>	-122.729569
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Final site walk. North and South Warehouse, workshop, and Dry Kiln Building as viewed from the Site entrance.	



<b>Photo No.</b> <b>326</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572739
<b>Long</b>	-122.729667
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Final site walk. Dry Kiln Building and Pyrolysis Building as viewed from the Site entrance.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>327</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.5727
<b>Long</b>	-122.729692
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Final site walk. Pyrolysis Building and Wood Chip Storage Area as viewed from the Site entrance.	



<b>Photo No.</b> <b>328</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572644
<b>Long</b>	-122.7294
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Final site walk. Wood Chip Storage Area as viewed from the Site entrance.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>329</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572644
<b>Long</b>	-122.7294
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Final site walk. Pyrolysis Building with heavy equipment.	



<b>Photo No.</b> <b>330</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572658
<b>Long</b>	-122.729181
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Final site walk. Wood Chip Storage Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>331</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572719
<b>Long</b>	-122.729203
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Final site walk. Heavy equipment north of the Pyrolysis Building.	



<b>Photo No.</b> <b>332</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572614
<b>Long</b>	-122.729019
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Final site walk. Residence east of the Site as viewed from just north of the Pyrolysis Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>333</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572656
<b>Long</b>	-122.728881
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Final site walk. Pyrolysis Building and former Secondary Containment Area.	



<b>Photo No.</b> <b>334</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572706
<b>Long</b>	-122.7287
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Final site walk. Gate leading to the residence located east of the Site.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>335</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572697
<b>Long</b>	-122.728675
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Final site walk. Road that runs to the east of the former Secondary Containment Area.	



<b>Photo No.</b> <b>336</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572697
<b>Long</b>	-122.728683
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Final site walk. Former Secondary Containment Area. Remaining AST is a water tank.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>337</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572631
<b>Long</b>	-122.728653
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  Final site walk. Former Secondary Containment Area. Remaining AST is a water tank.	



<b>Photo No.</b> <b>338</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572583
<b>Long</b>	-122.7287
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  Final site walk. Former Secondary Containment Area. Remaining AST is a water tank. Debris generated from the demolition of the concrete wall left against the side of the Pyrolysis Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>339</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572528
<b>Long</b>	-122.728706
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Final site walk. Remaining infrastructure and abandoned boom lift at left as viewed from the Secondary Containment Area.	



<b>Photo No.</b> <b>340</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572481
<b>Long</b>	-122.728644
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  Final site walk. Water AST and infrastructure left at the former Secondary Containment Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>341</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572339
<b>Long</b>	-122.728478
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  Final site walk. Abandoned boom lift.	



<b>Photo No.</b> <b>342</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572353
<b>Long</b>	-122.728447
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Final site walk. Former tote staging area, Lean-to Area, and Pyrolysis Building as viewed from the southeast corner of the Site.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>343</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572361
<b>Long</b>	-122.728569
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Final site walk. Fire Station Pump House.	



<b>Photo No.</b> <b>344</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572272
<b>Long</b>	-122.728675
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Final site walk. Former tote staging area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>345</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572328
<b>Long</b>	-122.728797
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Final site walk. Biochar staged at the Lean-to Area.	



<b>Photo No.</b> <b>346</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572256
<b>Long</b>	-122.729033
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  Final site walk. Area behind the Dry Kiln Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>347</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572239
<b>Long</b>	-122.729064
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Final site walk. Dry Kiln Building as viewed from the Lean-to Area.	



<b>Photo No.</b> <b>348</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572308
<b>Long</b>	-122.72915
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Final site walk. Biochar staged at the Lean-to Area.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>349</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572344
<b>Long</b>	-122.729181
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  Final site walk. Abandoned truck, Dry Kiln Building, and North Warehouse as viewed from the Pyrolysis Building.	



<b>Photo No.</b> <b>350</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572533
<b>Long</b>	-122.728989
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Final site walk. Interior of the Pyrolysis Building.	



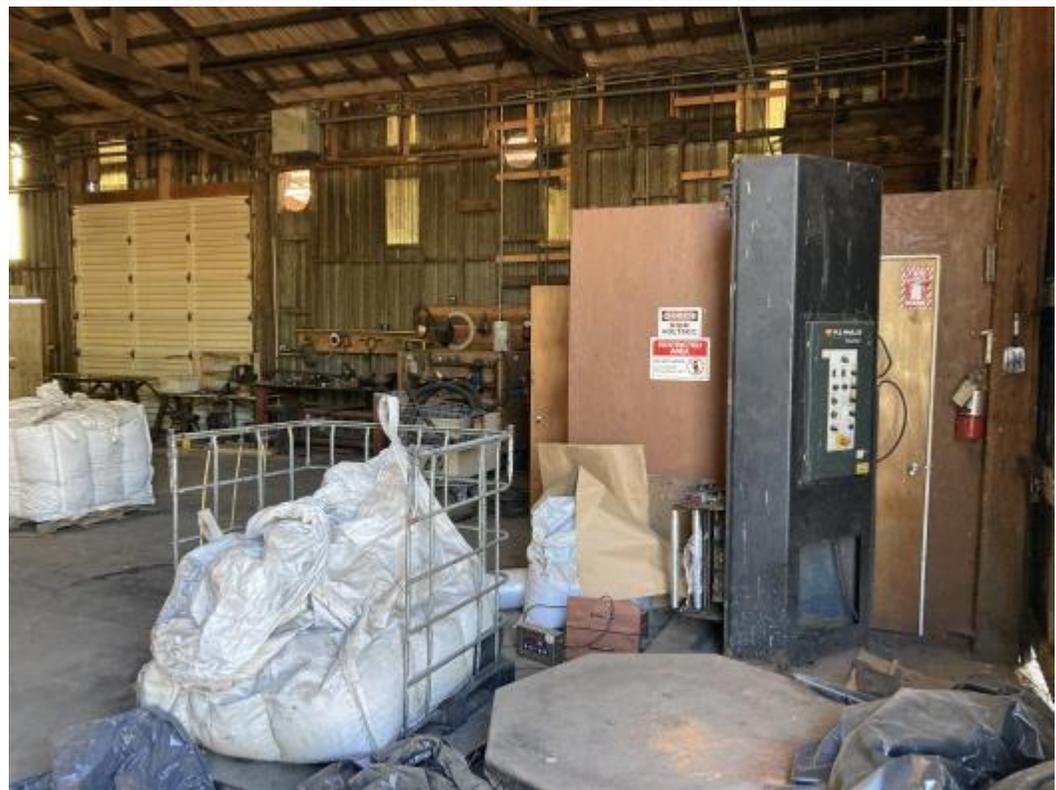
# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>351</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572394
<b>Long</b>	-122.729186
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Final site walk. Interior of the Pyrolysis Building.	



<b>Photo No.</b> <b>352</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572381
<b>Long</b>	-122.729194
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Final site walk. Interior of the Pyrolysis Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>353</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572381
<b>Long</b>	-122.729233
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  Final site walk. Interior of the Pyrolysis Building.	



<b>Photo No.</b> <b>354</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572575
<b>Long</b>	-122.72915
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Final site walk. Interior of the Pyrolysis Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>355</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572453
<b>Long</b>	-122.729233
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Final site walk. Interior of the Pyrolysis Building.	



<b>Photo No.</b> <b>356</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572436
<b>Long</b>	-122.729194
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Final site walk. Interior of the Pyrolysis Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>357</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572392
<b>Long</b>	-122.729081
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  Final site walk. Interior of the Pyrolysis Building. Yellow caution tape indicates no activity took place beyond that point.	



<b>Photo No.</b> <b>358</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572353
<b>Long</b>	-122.728906
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Final site walk. Interior of the Pyrolysis Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>359</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572467
<b>Long</b>	-122.728736
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Final site walk. Interior of the Pyrolysis Building.	



<b>Photo No.</b> <b>360</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572481
<b>Long</b>	-122.7287
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Final site walk. Interior of the Pyrolysis Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>361</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572375
<b>Long</b>	-122.728517
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  Final site walk. Interior of the Pyrolysis Building.	



<b>Photo No.</b> <b>362</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.57235
<b>Long</b>	-122.728194
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Final site walk. Interior of the Pyrolysis Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>363</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572308
<b>Long</b>	-122.728447
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Final site walk. Interior of the Pyrolysis Building.	



<b>Photo No.</b> <b>364</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572631
<b>Long</b>	-122.728731
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  Final site walk. Interior of the Pyrolysis Building.	



# PHOTOGRAPH LOG

**Project Name:**  
Onalaska Wood Pyrolysis TCRA

**Site Location:**  
Onalaska, Lewis County, Washington

**Project No.**  
68HE0721F0069

**Photo No.**  
**365**

**Date:**  
07/29/2021

**Photo Coordinates**

**Lat** 46.572344

**Long** -122.729119

**Direction Photo Taken:**  
**SW**

**Description:**  
Final site walk. Interior of the Pyrolysis Building.



**Photo No.**  
**366**

**Date:**  
07/29/2021

**Photo Coordinates**

**Lat** 46.572422

**Long** -122.729172

**Direction Photo Taken:**  
**W**

**Description:**  
Final site walk. Interior of the Pyrolysis Building.



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>367</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572569
<b>Long</b>	-122.729186
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Final site walk. Interior of the Pyrolysis Building.	



<b>Photo No.</b> <b>368</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572619
<b>Long</b>	-122.729203
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  Final site walk. Interior of the Pyrolysis Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>369</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572619
<b>Long</b>	-122.729203
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  Final site walk. Interior of the Pyrolysis Building.	



<b>Photo No.</b> <b>370</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.5727
<b>Long</b>	-122.728797
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Final site walk. Interior of the Pyrolysis Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>371</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572472
<b>Long</b>	-122.727767
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Final site walk. Interior of the Pyrolysis Building.	



<b>Photo No.</b> <b>372</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572197
<b>Long</b>	-122.729172
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  Final site walk. Dry Kiln Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>373</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572136
<b>Long</b>	-122.72915
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  Final site walk. Interior of Dry Kiln Building.	



<b>Photo No.</b> <b>374</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572139
<b>Long</b>	-122.729194
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Final site walk. Interior of Dry Kiln Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>375</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572136
<b>Long</b>	-122.729211
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Final site walk. Interior of Dry Kiln Building.	



<b>Photo No.</b> <b>376</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572164
<b>Long</b>	-122.729181
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  Final site walk. Interior of Dry Kiln Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>377</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572139
<b>Long</b>	-122.729333
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Final site walk. Area south of the Dry Kiln Building.	



<b>Photo No.</b> <b>378</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572106
<b>Long</b>	-122.729447
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  Final site walk. Area south of the South Warehouse.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>379</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572103
<b>Long</b>	-122.729439
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Final site walk. South face of the South Warehouse.	



<b>Photo No.</b> <b>380</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572078
<b>Long</b>	-122.729461
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  Final site walk. Space between the South Warehouse and the workshop/Dry Kiln Building.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>381</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572097
<b>Long</b>	-122.729706
<b>Direction Photo Taken:</b> <b>S</b>	
<b>Description:</b>  Final site walk. Southwest area of the Site.	



<b>Photo No.</b> <b>382</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572106
<b>Long</b>	-122.729714
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Final site walk. Southwest area of the Site. Exposed back area of the South Warehouse in the foreground. Abandoned residential house in the background.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>383</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572083
<b>Long</b>	-122.729867
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Final site walk. Southwest area of the Site. Exposed back area of the South Warehouse.	



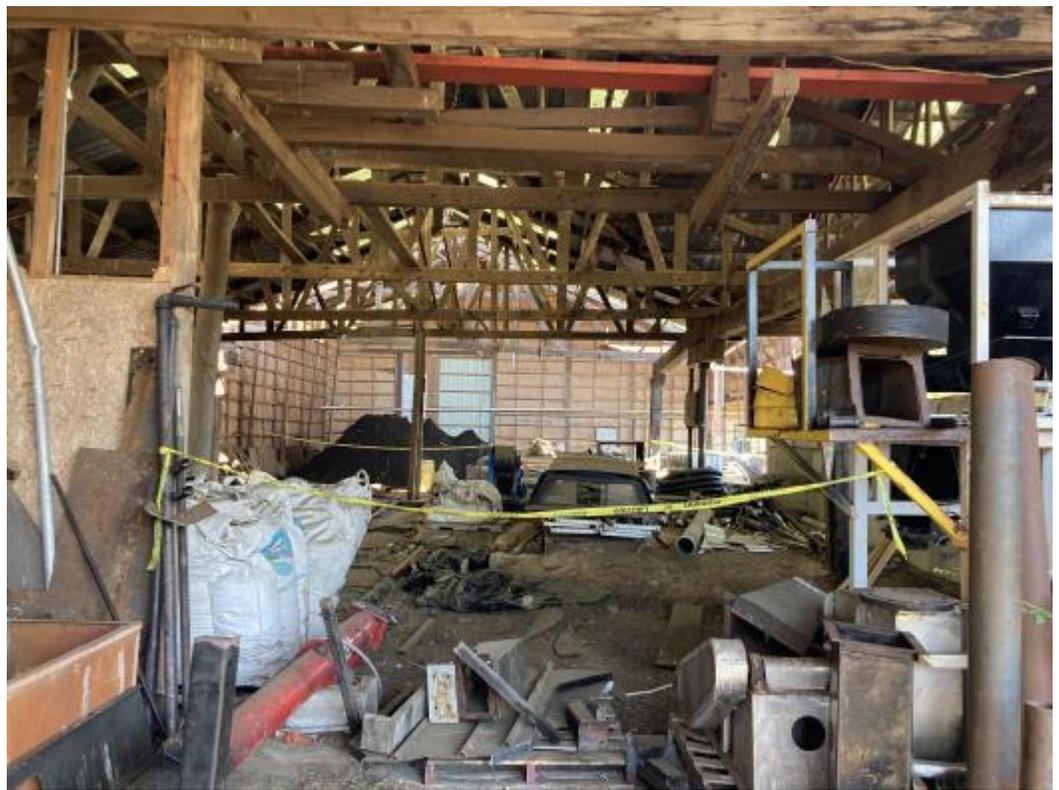
<b>Photo No.</b> <b>384</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572072
<b>Long</b>	-122.729881
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  Final site walk. Southwest area of the Site. Exposed back area of the South Warehouse.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>385</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572075
<b>Long</b>	-122.729881
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Final site walk. Exposed back area of the South Warehouse. Yellow caution tape indicates no activity took place beyond that point.	



<b>Photo No.</b> <b>386</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572047
<b>Long</b>	-122.730064
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Final site walk. Exposed back area of the condemned warehouse area. Abandoned pallets are at left.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>387</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572094
<b>Long</b>	-122.730086
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  Final site walk. Exposed back area of the condemned warehouse.	



<b>Photo No.</b> <b>388</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572003
<b>Long</b>	-122.729933
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Final site walk. Back road area of the Site.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>389</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572025
<b>Long</b>	-122.729828
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Final site walk. Condemned warehouse area. Yellow caution tape indicates no activity took place beyond that point.	



<b>Photo No.</b> <b>390</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.5722
<b>Long</b>	-122.729697
<b>Direction Photo Taken:</b> <b>SW</b>	
<b>Description:</b>  Final site walk. Wood chip and solidified waste stored in the South Warehouse.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>391</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572303
<b>Long</b>	-122.729722
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Final site walk. North and condemned warehouse.	



<b>Photo No.</b> <b>392</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572328
<b>Long</b>	-122.729836
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Final site walk. Condemned warehouse area. Yellow caution tape indicates no activity took place beyond that point.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>393</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572361
<b>Long</b>	-122.729881
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  Final site walk. Biochar stored in the North Warehouse.	



<b>Photo No.</b> <b>394</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572344
<b>Long</b>	-122.729875
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Final site walk. Interior of the North Warehouse.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>395</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572311
<b>Long</b>	-122.729819
<b>Direction Photo Taken:</b> <b>W</b>	
<b>Description:</b>  Final site walk. Biochar stored in the North Warehouse.	



<b>Photo No.</b> <b>396</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572333
<b>Long</b>	-122.72985
<b>Direction Photo Taken:</b> <b>N</b>	
<b>Description:</b>  Final site walk. Interior of the North Warehouse.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>397</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572344
<b>Long</b>	-122.729889
<b>Direction Photo Taken:</b> <b>SE</b>	
<b>Description:</b>  Final site walk. Interior of condemned warehouse as viewed from the North Warehouse.	



<b>Photo No.</b> <b>398</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572344
<b>Long</b>	-122.729911
<b>Direction Photo Taken:</b> <b>E</b>	
<b>Description:</b>  Final site walk. Dirt road leading away from the North Warehouse as viewed from the North Warehouse	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>399</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572372
<b>Long</b>	-122.72985
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  Final site walk. Area south of the fence line and southwest of the Site entrance.	



<b>Photo No.</b> <b>400</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572303
<b>Long</b>	-122.729575
<b>Direction Photo Taken:</b> <b>NE</b>	
<b>Description:</b>  Final site walk. Area just south of the Site entrance.	



# PHOTOGRAPH LOG

<b>Project Name:</b> Onalaska Wood Pyrolysis TCRA	<b>Site Location:</b> Onalaska, Lewis County, Washington	<b>Project No.</b> 68HE0721F0069
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<b>Photo No.</b> <b>401</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572394
<b>Long</b>	-122.729539
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  Final site walk. Area just southwest of the Site entrance.	



<b>Photo No.</b> <b>402</b>	<b>Date:</b> 07/29/2021
<b>Photo Coordinates</b>	
<b>Lat</b>	46.572511
<b>Long</b>	-122.729392
<b>Direction Photo Taken:</b> <b>NW</b>	
<b>Description:</b>  Final site walk. Site entrance as viewed from the Site.	



**ATTACHMENT B**  
**SITE LOGBOOKS**



*At the direction of*

ALL-WEATHER

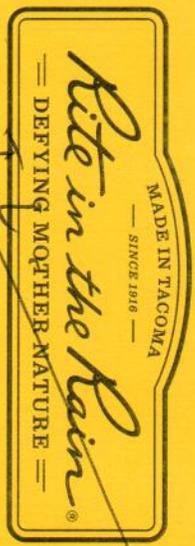
FIELD

OFFICE

Onalaska

TCRA

Logbook 1 of 3



Name Taylor Law

Wait to if found

Address 8659 N. Crawford St

Portland, OR 97203

Phone 281-755-4563

T.L.

Project Onalaska Wood Pyrolysis

TCRA

20510, 012, 019, 0042, 00

T.L.



**CONTENTS**

T.L.

PAGE

REFERENCE

DATE

Taylor Law - T.L. - T.L.  
Chris Lundrum - CL - T.L.

T.L.

T.L.

04/12/21 Onalaska TCRA — T.L.

0925] START Low, Cross; Nguyen onsite for HAZCAT, air monitoring location set.

1015] Safety Briefing ~~with~~ I.L. with EPA and ERRS. Scope discussion, ERRS —

to continue site setup and begin —

~~Prep~~ I.L. Staging of TGO4 totes for START

for START Non-Haz checks and preparation for Non-Haz pump out.

1234] START ~~team~~ stops for lunch

1252] START return from lunch. —

START setting up Misc. container staging area in Pyrolysis. —

Building, deemed BDO4. START to assess and record all Misc. FL containers to be HAZCAT, into ~~the~~ pre-ests Survey 123 form on ~~load~~.

1539] START team completed BDO4 building container assessment.

START to begin final PH and Non-Haz/Haz assessment of TGO4 totes due for pump and disposal tomorrow —

I.L.

1745] START completes assessment of (12) TGO4 totes, all PH values below 3.3, all totes should be considered Hazardous within RCRA

04/12/21 Onalaska TCRA — T.L.

START to discuss with EPA. —

1815] START demobilizes for hotel.

1830] START arrives at hotel. ERRS to pump out liquid from Secondary containment first thing in morning. —

I.L.

End log day

~~12-11-21~~  
~~Signature~~

6/15/21 Onalaska TCRA — T.L.

0945 START meeting with ERRS safety brief with EPA. T.L.

Weather: Partially Cloudy 54° = 2 mph wind out of North — T.L.

0700 Discussion with OSC on course of action of Hazardous and potential of more Hazardous waste totes in T604. OSC directs START to screen every tote prior to ERRS pump actions on all T604 totes — T.L.

0950 START law and Criss assess 4533 totes in T604, bringing total to 712. 45 assessed T604 totes. pH, air monitoring readings, and appearance observations indicate 7 of the 45 totes assessed so far in T604 — can be deemed on Non-Haz with consolidation of Secondary containment fluid (for purpose of dilution). ERRS to stage remaining totes in T604 for START assessment. — T.L.

1001 START to inventory remaining Misc. containers on site for HAZCHT sampling. — T.L.

1141 START Nguyen begins assessing Misc. containers for HAZCHT inventory in

6/15/21 Onalaska TCRA 6/15/21

BDD3 Dry Kilm Building. — T.L.

1100 START breaks for lunch — T.L.

1210 START returns from lunch and begins assessing more T604 totes. START Nguyen to continue inventory of Misc. containers for HAZCHT.

1400 START law and Criss determine that 28 totes, based on appearance/temperature, ~~to be hazardous~~ on site, pH, and air monitoring results, in T604 can be sent as non-Haz disposal. The 28 totes in T604 should be <sup>remaining</sup> considered hazardous for off-site disposal.

1418 START team to begins HAZCHT of BDD4 samples — T.L.

1543 WA Ecology onsite — T.L.

1608 START law begins inventory of BDD2. — T.L.

1627 START team completes inventory of BDD2, moves on to inventory Misc. containers and drums in BDD1.

1752 START team completes Inventory of all Misc. containers for HAZCHT from buildings BDD1 (N. Summit) BDD2 (S. Summit) and BDD4 (Pyrolysis/Lean-To Area). — T.L.

1800 START demobilizes from site. — T.L.

6/16/21 - Onalaska TCRA T-2

0845 START team onsite. Safety meeting with ERS and EPA field. Weather clear, 64°F, winds 1-2 mph out east.

Plan for day: Non-Haz trucks (2) will arrive in 700-930am window for pump out of Secondary containment and Non-Haz determined totes in Lean-To Area. (2) Hazardous waste stream ~~to~~ trucks will arrive in late morning to begin pumping Hazardous deemed totes in Lean-To Area. START to set-up air monitoring around Lean-To pump area for worker Health & Safety and complete Misc. container inventory and HAZMAT.

0815 START stations (3) Area Rave units around staged totes south of Lean-To area. Area Raves are units 5, 7, and 8. (1) Area Rave Unit 6 ~~will be~~ stationed below Lean-To START to utilize ProRoc Guardian software to monitor units accordingly./remotely F.L.

0835 First truck (NRC Environmental WA 01643AB plate) onsite to begin pumping of Non-Haz totes. F.L.

0840 Second truck (NRC Environmental WA 44245RP plate) onsite to begin pumping of Non-Haz totes under Lean-To F.L.

6/16/21 T-2 Onalaska TCRA F.L.

0950 START to begin HAZCHIT F.L.

1013 Third truck onsite Truck plate 49375RP to pump Hazardous totes. south of Lean-to area. F.L.

Late Entry 940 First 2 Non-Haz trucks offsite, All site Non-Haz totes pumped and portion of Sec Cont. 4,600 gallons of Non-Haz in each truck. Sec. Cont still containing over 50%.

1043 ~~1st~~ truck Clean Harbors P93388 onsite to pump Haz waste totes south of Lean-to Area. F.L.

drop roll off boxes. F.L.

1131 Fourth Clean Harbors Truck plate P104873 onsite to pump Hazardous totes waste. F.L.

1145 START team stops for lunch. F.L.

1217 START team returns from lunch. START to continue HAZCHIT and DOT labeling of containers. F.L.

1301 Third truck mobilizes from site with ~4,800 gallons of Haz. START continuing HAZCHIT F.L.

1325 ERS begins cutting up Lean-To Haz and Non-Haz totes. F.L.

6/16/21 IL Onalaska TCRA T.L.

1421 START to recalibrate all AreaRacs due to sensor CO saturation from loading trucks. T.L.

late Engr 1351 worth Truck leaves site with ~5,200 gallons Haz waste T.L.

1551L Non-Haz Truck from yesterday took ~4,000 gal of Secondary containment fluid. T.L.

1500 START attends daily 3pm meeting with EPA OSC and EPRS to discuss progress and daily goals. T.L.

1542 START team begins inventory of Dry Kiln Building BDD3 drums. T.L.

1638 START team finds Bulging drum in Dry Kiln Building. START to contact safety manager Tom Worman for guidance will stand down until further direction received on Bulging drum. T.L.

1720 START completes inventory of BDD3 drums and containers, START begins packing up site operations. T.L.

1735 START team demobilizes from site. T.L.

End log day

*Log day*  
6-16-21

T.L. Onalaska TCRA T.L. 6/17/21

0650 START team onsite, Weather, Clear skies, 48°F, 0 mph winds.

0700 Site Team meeting with EPRS, EPA, START. Plan for day. EPRS to continue pumping Hazardous waste totes into trucks. START to complete HAZCAT of all Misc, containers collected and continue air monitoring support with AreaRacs and Dosttraks near EPRS operations. T.L.

0715 START begins setting up air monitoring stations ASOI to ASO4 and setting up PoRae Guardian and Viper Remote monitoring data viewers. All air-monitoring data to be captured in ERT database. T.L.

0830 First truck onsite to begin setting up for pumping. T.L.

0852 Area Rae Unit 6. SN/WOAHDD1824 Area Rae Unit 7. SN/WOAOA0001925 Area Rae Unit 8. SN/WOAH0001824 Area Rae Unit 5. SN/WOAOA0001823

0855 WA Ecology onsite. T.L.

0934 2nd truck onsite to pump Hazardous Dry Kiln totes. T.L.

1041 Lewis County public works onsite

6/17/21 Onalaska TCRA — F.L.

1115 START team completes HAZCAT

of all containers except bulging drum in BDO3. START breaks for lunch. F.L.

1145 START returns from lunch. Begins all small Misc. containers for BDO1 and waste stream. F.L.

1315 START completes organization and labeling of all small Misc. containers on site. F.L.

1324 START begins QC of HAZCAT data forms. F.L.

1520 START Low begins attends OSC/ERRS afternoon meeting. Notes. F.L.

Two trucks offsite with RERR wood vinegar for ~9,932 gallons, (9,800 and 5,132) ERRS to continue breaking down totes. Tar totes not able to be received by Vac trucks, ERRS moved most containers to Vac trucks, ERRS moved most containers to Wood Kiln. ERRS

to assess all totes in BDO1 and BDO2 ASAP in order to account for volume cost. F.L.

Two trucks onsite tomorrow to pump Haz- waste from Secondary Containment.

1647 START Crisis to demobilize, START Low and Nguyen still onsite.

F.L. Onalaska TCRA. F.L. 6/17/21

1725 START team begins breaking down equipment. F.L.

1800 START demobilizes for hotel. End log day.

*[Handwritten signature]*  
6/17/21

Alaska TCRA — ED

0690 START Noyen on-site.   
0700 Site team meeting begins.

Plan for the day: Continue to stage filled tets in staging area, and continue to crush cages and cut tets. START

will continue to air-monitors. Two (2) trucks will arrive around noon to pump out non-hex waste out of secondary containment.

0715 Set-up AreaRAE's & DFT tracks.   
AreaRAE Dist Tank LINC

AS01 Unit 7 SR7535 137234

AS02 Unit 5 SR7532 143

AS03 Unit 8 SR7531 133

AS04 Unit 6 SR7534 141

0800 Viper & ParaRAE Coordination is up and running. LINC 137 @ AS01 is down. Similar to yesterday.

0850 Sampled LINC 137 for 234 @ AS01.

0900 Dist Tank SR7535 pump not working.

0920 Two NRC pump trucks arrive on-site.

0928 START repairs AreaRAE unit 8 at north side of containment. Unit 7 at south side of secondary containment.

Both are downing.

Alaska TCRA — ED

0930 Truck 1: NRC Trailer 3344

USDOT 502728 at north end of secondary containment. Truck 2: NRC

Trailer 37109 USDOT 2021084 at south end of secondary containment.

1007 Truck 1 pumping complete.

Estimated 4,800 gallons pumped.

Unit 1 moved back to AS03.

1025 Truck 2 pumping complete.

Estimated 9,800 gallons pumped.

Unit 7 moved back to AS01.

Leaves ~ 600 gallons (yesterday's estimate of vol. remaining ~ 10,200 gals.

Pumpings revealed a lot of debris, mostly pallets, in secondary containment.

Might pump remaining w/ the NRC

- per ENCS RM. W.1 final

ENCS will move tets from north

warehouse to south warehouse to take advantage of dry ground conditions.

1100 Dist Tank SR 7535 is operational. Returned to AS01.

1200 Collected latest Sample from K001. It was removed from

0901.

06/18/21 Bellevue TCRN

D

1240 OSC Forker on-site. OSC

Stanfield conducts site work w/ OSC Forker and START.

1900 LINC 143 @ ASO2 w/ net D

communicating for ~ on hour. Referred to and repaired 1-ft R line-of-sight to gateway. LINC 143 is working. D

1930 Hertz result of K1001 is D

D519 The wet note is a pH of 3. D

1500 Planning meeting D

- Two trucks pumped at 9,000 of D

Secondary containment. Majority of volume removed. Cutting of totes occurred. D

- Scrap will bin to dumped on Friday. D

- 20-yd ~~dumped~~ to be dumped off totes. D

- Excavate 1 Wet bulb's Monday. D

- Tote Staging area 1 ton-to one D

filled with totes. Some space is covered D

into the ton-to for the tote-ton- D

betons that can't fit in the 20 yd. D

- Estimates 19T totes remaining. D

- Drive west lane for weekend. PD 11 D

Replacement for Debert, EMS staffing D

will be 7 on Monday. D

- Estimates ~ 10 more tanker trucks to D

D

06/18/21

D

1511 Planning meeting can't D

- Volume of ASTs are still relatively unknown. Especially content. D

- Stillification might dilute concentration approved chlorohent, it will then be D

scraped into 20yd roll-offs. D

- In bottom totes will continue to be D

cut and scraped. D

- Fill-for totes will have to be cut, to D

emptied, and scraped. The 16 totes are D

in the dry lab. building. D

- May close RGA debris &amp; roof D

on Monday. D

- Five hore-tongs will come out D

next 2 next week. 1 - Tues, 2 - Wed, D

2 - Thurs. EMS might be able to get D

more. TBD. D

- Focus early next week is to pump the D

totes and maybe the top volume of D

the ASTs by mid to late week. D

- START needs to bring. D

Safety goggles for another Pating Project. D

- Ignage sensor, &amp; Silicic acid, D

1900 Viper survey center for recording D

function stopped same time before D

D

06/18/21 Oneaska TCNA — 50

1900 (cont'd) - the meeting. 3 of 4

LINC windows are grey (rather than green)  
These windows flash "Reading Post FIELD"

RatAte Viper ~~car~~ DistTrak

Shut-off and will not turn back on. May be a power issue. — 50

1750 ORG leave Site — 50  
1620 START leave Site — 5

*[Handwritten signature]*  
06/18/21

Oneaska TCNA — 50 06/19/21 17

0615 START arrives on-site. Begins equipment stand-up. — 50

0650 ORG & ERMS arrive on-site. — 50

0700 Morning safety meeting. — 50

0920 RatAte up and running. DistTrak still on charge. — 50

0923 Two (2) DistTraks up and running with Viper. Two (2) are still on charge. — 50

0924 Tofy are being torn down today. Minimum vehicle traffic on-site (No trucks, minimal fork-lift operation). — 50

0926 The currently engaged DistTraks are assigned with AS02 & AS04. — 50

1040 AS03 - DistTrak is online. Only station who is DistTrak is AS01. — 50

Area RAE unit 548 @ AS02 & AS03 keep going in and out. Unit 8 restarted. — 50

1057 Unit 8 back on and running w/ RatAte. — 50

1205 ORC Stanfield departs site for the weekend. — 50

1422 Planning Meeting. — 50

- ERMS quitting time. — 50

- Ann L 15:00 blog received. — 50

- Remand bucket called in for rain by

06/19/11 Diagnostics TQA  
1922 cut 11 kln building placed in NCLF

waste dump

Bucket test conducted to see how well hole for binds with material.

So far 1. 2 Dickersons earth is lighter than others want to get at a sample by Tuesday. Hope to pass pain filter test. type to

These keepins done to gotten up to site before leaving.

Mandy will receive excavator & water buffer. Figure out how to fill water buffer. ~~sample~~ with water tank. Will start to dismantle the secondary containment

root. Might set pump at tanks yet in order to prioritize the this. D

Will look to order man-lift. STAAT will reuply and resume monitoring and documentation on Monday.

OSC Fawbr leages site

1750 ENNS leages site

1600 STAAT Nyugen leages

1025 STAAT Nyugen leages

846 STAAT arrives at ENCL

Assembles equipment.

2015 STAAT reports ERCC

06/19/11 Diagnostics TQA  
START reports ERCC for

0775 STAAT arrives on-site. OSC and ENNS are already on-site

0800 STAAT APD low omve on-site.

0808 STAAT Nyugen hands-off C trucks to STAAT low

0938 STAAT low and Nyugen set up Areas Raes and Dusttraks locations

are as follows. T.L.

Location Area/Rae Dusttrak LINE

AS01 - Unit 7 - SB7533 - 234 -

AS02 - Unit 5 - SB7532 - 143 -

AS03 - Unit 8 - SB7531 - 133 -

AS04 - Unit 6 - SB7534 - 141 -

Note: AS01 location moved to eastern fence line and AS01 moved between rolloff boxes near South board

of Secondary Containment in order to monitor worker safety during Secondary Containment waste removal

Plan for day: ERDS to deconstruct roofing over Secondary Containment

Weather 59-96°F, winds from NW @ 4-6 mph

Clear Skies.

6/21/21 #1 Onalaska TERA. — T-1

1038 ProRae Guardian connectivity issues  
START to restart program and establish  
new connection. — T-2

1058 ProRae Guardian Data Cascade to  
Viper connection re-established. — T-2

1102 START Low and Nguyen go over  
daily/morning operation set up. — T-2

1219 START Low/Nguyen break for lunch.  
START returns from lunch. — T-2

1334 START Nguyen demobilizes from site.  
ERRS continues removing debris from  
secondary containment. — T-2

1432 ~~Start~~ Granite sensor possibly drifting  
on unit 8 Area Rae START to re-calibrate  
unit. — T-2

1435 START conducting Viper network  
maintenance. — T-2

1500 Daily afternoon meeting. Actions  
completed. Water butala on site, ays  
crushed, Secondary containment cleanup  
continued, debris removed for drying,  
metal roof to be disposed of as non-haz  
Debris from inside containment to be  
disposed of as PCRA Haz. — T-2

Anticipated; Address bulging drums, suck  
out remaining and Containment, Waste

T-2 Onalaska TERA 6/21/21 21

Travel onsite for Haz waste removal.  
ERRS to stage totes and cont.  
debris removal from containment  
and ASTs. — T-2

START to continue perimeter air  
monitoring and photo/written documents  
Belajar. — T-2

1608 ERRS demobilizes from site.  
START troubles heating Viper and  
AreaRae issues. — T-2

1832 START completes re-calibration  
of all site AreaRae HCN sensors  
packing/storing of all site equipment  
Demobilizes for hotel. — T-2

End log day.

~~1-2~~  
~~1-2~~  
~~1-2~~

~~1-2~~  
~~1-2~~  
~~1-2~~

6/22/21 Onalaska TCRA — T.L.

0700 START, ERRS, EPA on site for safety meeting and Plan for day briefing

0718 START Low begins setting up air monitoring stations; T.L.

0908 EPA and State Visitors onsite and first truck to pump Haz waste. Visitors include: EPA Wally Moor, State Ecology WA: Dee Williams, Michelle Underwood, Darren Rice. T.L. Group takes tour of site after safety briefing — T.L.

0915 Air monitoring locations as follows Location: Area Rae T.L. Distruck #1, 12M

AS01 — Unit 7 — SB75382 — 234  
AS02 — Unit 5 — SB7532 — 143  
AS03 — Unit 8 — SB7531 — 133  
AS04 T.L. Unit 6 — SB7534 — 141

1102 Truck pumps Haz waste for offsite disposal, 510 30 gals. T.L.

1230 Safety Audit Conducted by Wally Moor, START to rectify and submit to EPA Moon ASAP. T.L.

1303 ERRS assessing middle east tank (AST), Tar inside tank, possibly not thick tar. T.L.

1310 ERRS assesses two other tanks.

Onalaska TCRA 6/23/21

Late Entry Distruck/AS01 location down due to connection issues. START to attempt repair throughout day — T.L.

1500 Afternoon meeting with site team ERRS ops. 5,030 gallons pumped from Hazo. 1,275 came from 5,030 — T.L.

40 yd scrap bin arrived onsite as well as 20 cubic yd. rolloff 40 yd metal scrap and 20 yd rolloff present offsite. T.L.

Boa tote processing continued, Boom 1st received, (3) 8,000 gallon assy NW tank 2/3 Full, ~~middle empty~~ SW tank 1/4. Middle has 2ft tar in bottom. ERRS tomorrow. (2) Haz pump trucks onsite. Pump one tank down, liquid only, no tar if possible. T.L.

Continue tote Processing. T.L.

1542 START low assessing down air monitoring location AS01 — T.L.

1632 START calibrates MultiRae unit SB7022, with HCL sensor. Calibration passed on all sensors. T.L.

1808 START stores equipment demobilizes for the day End log day. T.L.

6/23/21 I-2 Onalaska TCRA — T-2

0648 START Low onsite — T-1

0700 Safety meeting held with EPA, ERRS, START Field team. Plan for day. Pump —

standing Hazardous liquid from South —

Eastern 8,000 gallon tank and BDO2/

BDO1 Hazardous totes, ERRS will —

continue to consolidate totes and tote

casing. Weather, S2-77°F Winds from

West 2-6 mph. Partly Cloudy, 30% —

chance of precipitation. — T-2

0710 START begins setting up of air —

monitoring stations ASO1-ASO4. ASO1

located south staging area near Southern

gate, ASO2 located near South western

corner of Secondary containment and site

roll-off boxes. ASO3 located outside

Southern wall of Lean-70/BDO4. AT-1.

ASO4 located under Lean-70 against

Paralysis Building wall. — T-2

Equipment SNs are as follows — T-2

AS location — AreaRae — DustTrak — LINC

ASO1 — Unit 7 I-2 SB 7533 — 234

ASO2 — Unit 5 — SB 7532 — 143

ASO3 — Unit 8 — SB 7531 — 133

ASO4 — Unit 6 — SB 7531 — 133

Unit 6 — Unit 6 — SB 7531 — 133

0812 START deploys of Air monitoring stations

I-2 Onalaska TCRA 6/23/21 F-2

0815 First pump truck onsite — T-2

0821 START troubleshooting issues

at ASO1 and ASO3 locations. — T-2

0909 Second pump truck onsite — T-2

0919 START begins Air monitoring location

100% communicating remote data — T-2

0931 Late Entry ERRS begins Pumping the

Haz. liquid from Southeastern 8,000

gallon tank. — T-2

0930 ERRS begins pumping Haz.

totes liquid into Second truck — T-2

1004 START Discusses site safety

needs as recommended by EPA Mon

with OSC Fowlow, START to address

needs. — T-1

1017 First truck pumping complete

4,800 gal, 1,300 from tank (1) — T-1

SE tank. — T-1

1130 Second truck 5,303 all from

totes, offsite — T-2

1200 Crew breaks for lunch — T-2

1231 Crew returns from lunch. — T-2

1303 ERRS begins dismantling of

totes. — T-2

1304 Late Entry START trouble shooting

connection issues with Viper Line 143

10/23/21 Ft. Chulaskita TCR A T.L.

1421 START Low talks with START

From memo on safety rectifications - 7.2 requested by EPA Wally Moon 7.2

1507 Afternoon meeting: ERRS ops:

pumped liquids from 34 totes, 11 of which had tar ERRS also processed totes, deconstructed totes, totes edges and solidified bottom tote staining material. Tank 5 Five assessed, me - to minimal tar on bottom of tank ERRS anticipated sludge volume for site tripled due to secondary containment and ASTs. ERRS tomorrow! 1 truck onsite to pump Haz Waste, process totes at staging area and move tar/sludge totes to BDOY. Begin cutting tank 1 (SE) down. T.L.

\* Tank 5 contains 3,000 gallons wood vinegar

1451 START Low checking site first aid kits T.L.

1716 START Begins breakdown of equipment

1802 START demobilizes for the day F.L.

End log day

~~10-23-21~~ T.L.

10/24/21 Ft. Chulaskita TCR A T.L.

0634 START Low onsite T.L.

0700 Safety meeting held with EPA, ERRS, START field team, Plan for day:

Pump hazardous waste totes staged at lean-to/BDOY area into 1 truck for offsite disposal. ERRS will also begin cutting/consolidating ASTs/tanks land 2 for disposal. T.L.

0710 START Low begins setting up air monitoring stations T.L.

0806 Dusttrats deployed but START needs to conduct calibrations on all AreaRae's T.L.

0839 Complete calibration of all Areas done. All passed cal. requirements

0833 ERRS begins cutting of tank 1. Pre-screen of inside of tank with

Multifire Pro showed no concerning readings T.L.

0839 START Deploys fully operating air monitoring stations. Data is communicating

and logging remotely into FRT database

0841 First truck onsite to pump hazardous waste from staged totes

0951 ERRS completes deconstruction of Tank 1 ERRS to address tank 2

Tank 1 ERRS to address tank 2

T.L. 6/24/21 Onalaska TCRA T.L.

1111 START low leaving site for lunch and to make key copies. OSC notified

1219 START returns to site. ERRS still deconstructing tank 2. and consolidating totes T.L.

1228 WA Ecology Dee Williams and hire onsite T.L.

1307 WA Ecology offsite T.L.

1312 ERRS continuing to deconstruct totes T.L.

1500 Afternoon meeting. ERRS progress for the day. Tank truck in to pump 5,300 gallons, mix of wood Vinegar and less ~~toxic~~ viscous tars First Non-Contam. scrap metal bin, 40-cy, 40-cy onsite.

ERRS continued tote deconstruction and cut AST tank (1) and tank (2). T.L.

ERRS to receive DE pallet and apply to 2nd containment. T.L.

ERRS tomorrow to receive 20-cy bin for far contaminated ~~liquid~~ T.L.

ERRS to move more totes and pump totes T.L.

ERRS continues deconstructing totes and moving un-addressed totes from BDO1/BDO2 T.L.

T.L. Onalaska TCRA T.L. 6/24/21

1705 START low and ERRS begin breaking down air monitoring stations T.L.

1734 Equipment stored and safe on site team demobilizes from site. End log day. T.L.

~~Signature~~  
T.L. 6/24/21

30 6/25/21 Onalaska TCRD T.L.

0700 START low onsite, Safety Meeting held with ERRS, EPA team T.L.

Plan for day: remove sludge/tar and debris from secondary containment.

Apply sorbent/solidification product to secondary containment and power wash.

Pump and stage totes from BDO/BPR if possible (truck arrival pending). T.L.

START to continue air monitoring T.L.

0705 START begins setting up air monitoring

0758 START completes air monitor setup.

0805 ERRS prepares to enter and containment in level C, to remove and containment debris. T.L.

0851 ERRS begins debris removal of and containment. T.L.

0901 WA Ecology onsite with Kyle? F.L.

0934 20 cy roll-off bin onsite. ERRS begins placing removed secondary contained debris in roll off with Excavator T.L.

Unit Locations / Air monitoring stations:

Location	Area/Race	Dust/Trk	LINE
AS01	Unit 5	SB7533	234
AS02	Unit 7	SB7532	143
AS03	Unit 6	SB7531	133
AS04	Unit 6	SB7534	141

Onalaska TCRD T.L. 6/25/21

1210 ERRS crew/team breaks for lunch. T.L.

1240 Team returns from lunch T.L.

1302 ERRS continues to apply sorbent/DE to inside of secondary containment. T.L.

1341 To assist with solidification ERRS obtains wood chips from Warehouse area of site. T.L.

1500 Afternoon meeting. ERRS progress dismantled and removed debris from secondary containment. Segregated metal tar covered for separate disposal. Received 1) 20 cy roll-off tar and cont, RCRA haz debris. ERRS prepared to solidify tar in and containment with DE and wood chips/sand/silt. Tomorrow: Move tanks 1 and 2 and continue cleaning and containment. No totes if purping. T.L.

ERRS T/D issues, initial vendor to receive waste cannot, ERRS to find new disposal option. T.L.

\*Heat stress symptoms and thermometer for safety meeting tomorrow T.L.

1604 ERRS continues solidification of secondary containment waste/debris

32 6/25/21 T-2 Onalaska TRPA T-2

1700 START Low and ERRS begin taking down Air monitoring locations T-2

1738 Team demobilizes for the day End log day, equipment stored. T-2

~~12-5-21~~

T-2 Onalaska TRPA T-2 6/26/21 33

0630 START Low onsite Weather: Forecasted 61-99°F, Winds from North 2-6 mph. T-2

0700 Safety meeting held. Plan for day. ERRS to continue solidification of waste in Secondary Containment.

Empty tanks 1 and tanks 2 into Containment. Solidify tar from tanks in Andor Containment, START to T-2

continue site Air Monitoring. T-2 Due to heat sensitivity of DustTrak

START will not deploy ASD1 location as ERRS not be working in that area. T-2

0800 Air Monitoring stations deployed and functioning T-2

0815 ERRS begins solidification of Secondary Containment Waste T-2

1015 START Low takes grab sample of Tank 5 (steel tank), per color observations and pH reading. The sample is diluted wood vinegar. ERRS to address steel tank waste as Hazardous T-2

11015 ERRS Holz and START Low to attempt to raise pH on wood vinegar

34 6/26/21 T.L. Onalaska TCRA — T.L.

sample with Baking soda / Sodium Hydroxide to be for purposes of removal disposal plan / change of T/D facility ERRS crew continues to solidify secondary containment waste

1142 START low switches out Area Rae for Area Rae Unit 5 due to potential drifting readings — T.L.

1202 Team breaks for lunch — T.L.

1221 Team breaks Returns from lunch, ERRS

1438 Afternoon meeting. ERRS removed progress; ERRS removed tank 1 for and liquids, solidified for with DE and wood chips. ERRS conducted

pH tests with wood vinegar and baking soda. ERRS obtained pH 7.2 Monday; ERRS to address second tank and receive day rolloff — T.L.

START air monitoring showed no exceedances ERRS to ship off day rolloff and in

containe bench feeding — T.L.

14 operations complete for the weekend team demobilizes — T.L.

End log day 6-26-21

T.L. Onalaska TCRA — 6/25/21

0700 START low onsite with ERRS crew, EPA, and RM Holz (OSC Starfield) weather: 71°F - 113°F winds from North 2-4 mph. Safety meeting held due to high heat ERRS will consider stopping early today. Plans address contents of tank 2 and solidify in secondary containment. Deconstruct totes in shade if it gets too hot — T.L.

Due to charging complications over off day yesterday Dust Trucks not ready for deployment, START to deploy when possible. — T.L.

0809 Areas deployed ERRS begins solidification of secondary containment START low re-calibrates Area Rae Unit 8. Equipment deployment details below: — T.L.

Location	Area Rae	LINE
AS01	Unit 5	None
AS02	Unit 7	None
AS03	Unit 8	None
AS04	Unit 6	None

Note: Unit 8 Area Rae sensor potentially drifting, Sensor turned off START to attempt re-calibration end of day

6/28/21 T-2 Onalaska TCRA T-2

1000] START moving dry wood chips from condemned building to secondary containment to assist with solidification. T-2

1000] START does check in and brief of site air monitoring levels on site since 6/14 project start. T-2

1015] ERRS completes removal of tank 2 holding / support, begins cutting / consolidating rest of tank 2 pieces. T-2

1102] ERRS continuing to ~~the~~ Deconstruct and take apart tank 2 and apply dust suppression to site. T-2

1123] HCN alarm sounding on Unit 7 near Secondary Containment, START near screen's area with Multi Raes pro (s) and additional Area Raes. No site action levels exceeded. START to re-calibrate Area Raes Unit 7. T-2

1158] Area Unit 7 redeployed and functioning. ERRS continuing to consolidate ~~to~~ in Secondary containment

1200] Team breaks for lunch T-2  
1205] Team returns from lunch T-2

6/28/21 T-2 Onalaska TCRA T-2

1223] START low notices no units communicating Raes data through Raes link / remote data monitoring - laptop. START low trouble shooting units and Raes link. T-2

1334] START low reports ~~down remote~~ non-functioning remote data support to crew and OSL. Troubleshooting and repair in field not successful. Units believed to be overheating with

outside temp @ 113°F T-2  
OSL Stanfield tasks START to take down Area Raes to prevent heat damage. START pauses Viper data collection run and brings in Area Raes. ERRS will not open new containments or totes until Area Raes deployed again. T-2

1402] ERRS continues to solidify secondary containment for with on-site wood chips / sawdust. T-2

1500] Afternoon meeting. ERRS progress - ERRS drained and deconstructed ~~the~~ tank 2 and then sawed and cut up tank 2. (1) RCRA waste roll-off was removed (1) DCX was dropped on site T-2

38 6/28/21 IL Onalaska TCRA T-2

1500 cont. ERRS also filled a 20cy roll off with solidified for ERRS continues dust suppression. Another 20cy roll off is onsite and filled with RCRA debris. Tomorrow, Receive (2) 20cy roll off ~~of~~ solidified for, (1) 20cy is for RCRA debris. T-2

ERRS to start processing tar totes and deconstructing totes. ERRS will continue moving sawdust/wood chips. ERRS possibly to receive equipment from "Bethel" site. T-2  
1534 Team standing down for day. START demobilizes and work on office tasks per OSC, remainder of day. End field day. T-2

*[Handwritten signature]*

T-2 Onalaska TCRA T-2 6/29/21

0445 START low onsite, weather 44-88°F, 2-7 mph, clear skies forecast. Plan for day. ERRS to continue consolidating tar from BDO1 BDO2 totes inside secondary containment. Excavator to continue bringing wood chips/saw dust to secondary containment for mixing/consolidating. Two ERRS crew will enter level C and do mixing in secondary containment. Totes will continue to be moved from BDO1 to tote staging area and water suppression will continue every hour. 0700 Safety meeting held. T-2  
0709 START begins set up of Rae, DustTraks, Vipers and ProRae boardman remote data monitoring stations. 0801 START completes deployment of all air monitoring stations, but trouble shooting connection issues at ASD1 and ASD3 locations. site setup as follows. T-2

ASD1	T-2 Area Rae Unit 5	(DT) SB7533	154
ASD2	" Unit 7	SB7532	143
ASD3	" Unit 8	SB7531	133
ASD4	T-2 Unit 6	SB7534	141

4/29/21 T.L. Onalaska TCRA T.L.

10830 ERRS begins dumping tar tetes and consolidating waste in secondary containment.

0942 Clean harbor's onsite dropping

20 cy roll off's, Took (1) 20 cy RCRA debris and SC tanks debris and took (1) bulk wood tar solids/

consolidated SC wood waste/wood chip.

1010 ERRS continuing to consolidate and mix wood chips/sawdust with tar.

Secondary Containment tar.

1158 Crew breaks for lunch

1230 ERRS/Field team returns from lunch

1235 ERRS continues consolidating wood tar and wood chips/sawdust in secondary containment with excavator and preparing/drying wood chips/wood sawdust from condemned building for solidification/consolidation use.

1350 EGM RM Ron, M, onsite

ERRS continue SC. tar consolidation.

Late Entry 1220 START switches Areas

Rae's at locations ASO3 and ASO2

Unit 8 now at ASO2 and Unit 7 now at ASO3, due to heat

T.L. Onalaska TCRA T.L. 4/29/21

11505 ERRS RMs Ron and Holz conducting pH test for assisting in determination of TPD facility options after raising wood waste pH to 6 through onsite bench tests with NaOH and Baking soda.

1545 ERRS continues solidification of tar in secondary containment.

1448 START hour begins. Breakdown

1735 Team demobilizes for the day. End log day.

~~Signature~~

6/30/21 T.L. Onaska TCRA T.L.

0645 START low onsite. Weather forecast, 64-84°F, Clear Skies, winds from west at 2-6 mph. T.L.

0700 Safety meeting held. Plan for the day. ERRS to receive (D) 6,000 gal, tanker truck to pump Hazardous fluid from tank 3 in secondary containment and Hazardous waste totes from BDO/BRAS

0707 START low begins air monitoring station setup, locations as follows, location T.L. Army Rae T.L. DustTrak T.L. DINE ASO1 T.L. Unit 5 T.L. EB2533 T.L. 234 ASO2 T.L. Unit 8 T.L. SB7532 T.L. 143 ASO3 T.L. Unit 7 T.L. SB7531 T.L. 133 ASO4 T.L. Unit 6 T.L. SB7534 T.L. 141

0803 Locations deployed, START trouble shooting connection issues at ASO2 and ASO3 Dust Traks. T.L.

0838 Tanker truck onsite to receive tank and tote waste, T.L.

0845 ERRS begins pumping waste from tank (wood vinegar waste only) T.L.

0949 ERRS continuing to pump waste from tank 3. T.L.

1037 tanker truck moves from secondary containment to tote staging area to

T.L. Onaska TCRA 6/30/21 T.L.

1037 cont.] to pump Haz. totes, START continuing to experience connection issues with ASO2 and ASO3 Air monitoring locations/DustTraks. All Area Raes still functioning and relaying data. T.L.

1146 Pumping of Haz totes completed. Truck filled and leaving site. T.L.

1151 ERRS crew stopping for lunch. 1246 ERRS crew returns from lunch and begins preparing for tote deconstruction and secondary containment waste solidification. T.L.

1422 ERRS continues deconstruction of totes and totes cages T.L.

1500 Afternoon meeting. ERRS progress Pump of Tank 3 and totes for total of ~5,303 gal. 3,000 gals from tank 3 and 10 gals from sump. All drained for totes from yesterday were deconstructed. Scrap metal 40 cy roll off left site, ERRS received 40 cy roll off and began filling empty roll off. T.L.

Tomorrow. ERRS to receive (2) 20 cy roll off for RCRA debris and RRAS

wood waste. ERRS to continue tote processing

6/30/21 T.L. Chulaska TCRA F.2.

1500 70 totes un-assessed, 22 are tar  
23, 300 still onsite Wood Vinegar F.2.

ERRS staging 20 ex roll-offs with  
RCRA Haz debris and RCRA wood waste  
for removal tomorrow F.2.

1602 ERRS continuing to deconstruct  
totes F.2.

1641 START and ERRS crew collect  
waste samples DWP-WTARA-07 and  
DWP-WTARA-07 for purposes of lab  
analysis. Ideally sample data will  
help determine different waste  
stream possibility so ERRS can  
continue to remove solidified wood  
tar waste from totes, tanks, and  
secondary containment due to limit  
capacity/in take ability originally  
designated Clean Harbors waste facility  
(for wood tar solidified waste). F.2.

1658 START low and ERRS begin  
breakdown of air monitoring location  
1732 Team demobilizes from site.  
End log day F.2.

*Mark Shaw*  
6-30-21

T.L. Chulaska TCRA F.2.

1645 START low onsite. Weather  
forecasted 61-71°F, Partly Cloudy,  
Winds from west 2-5 mph F.2.

1700 Safety meeting held. F.2.  
Plan for the day. START landrum  
mobilizing to site to relieve START  
low until 7/7. ERRS to continue  
solidifying tar from Secondary F.2.

containment tanks, BDO1/BDO2 F.2.  
totes, inside secondary containment,  
ERRS will also continue to deconstruct  
totes and tote metal cages. F.2.

1706 START begins setting up air  
monitoring locations ASO1-ASO4 F.2.

1801 All air monitoring stations approved  
Location Area Rate Dust/Tonr LHM

ASO1	Unit 5	\$B7533	234
ASO2	Unit 8	\$B7532	143
ASO3	Unit 7	\$B7531	133
ASO4	Unit 6	\$B7534	141

Note: Connection issues with ASO3  
LINE to Niper Network, problem believed  
to be faulty cables from LINE to antenna.

1804 ERRS begins tar solidification and  
tote deconstruction, roll-offs onsite, include

40g for non-contaminated areas

*Mark Shaw*  
6-30-21

7/12/21 FOL

Onalaska TRPA

0804 continued... 1/5 cy for clean tote poly, 20 cy for solidified wood tar waste and 20 cy solidified wood tar waste  
0815 OSC Fowlow onsite, OSC Stanfield to accompany him in nearby site investigations in Centralia, WA. OSCs to return in early afternoon.

0924 Clean Harbors truck onsite to take drop (2) 20 cy roll-offs for wood waste for T-2.

0940 START Landrum onsite T-1.

1000 START low and landrum conduct site walk and placement of safety signs around safety concerns areas. T-1.

1115 OSC Stanfield and Fowlow return from site investigation. T-1.

1201 ERRS crew breaks for lunch. T-1. START successfully troubleshoots ASD3-F1 location and has all locations operating

1215 START low transfers START Landrum site logbook. T-2.

1230 Brief rain shower so ASD1 and ASD2 are Area AHS were moved under lean 240 until rain stopped. T-2.

1235 Rain stopped and ASD1 and ASD2 were returned to their original locations.

Were returned to their original locations.

Onalaska TRPA

1300 START low demobilized from site.

1330 ERRS marking totes otherwise south of lean to the trucks where the wood vinegar mixes with fat.

1335 Clean Harbors crew lab packed drums of Hazmat waste in BDO4.

Four 55-gallon drums were not reeking. Two 25-gallon drums were DOT 8.

One drum was acidic and the other was basic. The 25-gallon drum contain DOT 2. A 55-gallon drum contained DOT 3. Rigid's and another 55-gallon drum was flammable.

Paint Related Materials. A NOAA bag was packed w/ DOT 9 non-hydrate materials.

1400 ERRS continuing to solidify sludge w/ sand just in secondary containment area. Disposal will be in the DOT roll offs.

1500 Afternoon Meeting. ERRS received two DOT roll off and loaded 1000 lbs DeNora two samples of solidified fat. ERRS continued to solidify fat.

7/12/21

2/12/21 & Donlocks TCRH

1500 in Secondary containment. No additional totes were cut. ERRS were prepared for neutralization by marking levels on totes mixed w/ tar and wood vinegar. Clean Harbor 5 lbs w/ packer and used a cubic yard box. ERRS could not start w/ neutralizing today due to NaOH w/ 155 Supply issues. ERRS will be 3 totes of NaOH tomorrow to start neutralizing on Tuesday. Scheduled disposal tip is Friday 7/9 and Tuesday 7/12. Clean Harbor will deliver two 80ft rolloff boxes tomorrow. These rolloffs are reserved for solidified tar. ERRS plans on processing cut totes. The goal is to have all secondary containment for worked. ERRS will overpack the 12-13 drums. START to perform inventory tomorrow of liquid to far a waste.

1100 ERRS continue to deconstruct totes.

1700 START Landrum and ERRS begin breakdown of air monitoring locations.

1740 Team demobilizes from site. End of log day.



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Onaleska

TCRA

Logbook 2 of 3



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Name Taylor Law

Address 8459 N. Crawford St.  
Portland, OR 97203  
Phone 281-755-4513

Project Onalaska Wood Analysis  
TCRA

20510.012.019.0042.00

*Taylor Law*



START Site Personnel T.L.  
PAGE REFERENCE DATE

Chris Lindrum - C.L. T.L.  
Taylor Law - T.L. - T.L.

*T.L.*

2 7/21/21 CL Onaska TRA 7/21/21 CL

0640 START Lambda arrive on site. weather forecast 579-80°F, cloudy w/ Parts of Sunshine. Winds from north at 0-3 mph

0700 Safety meeting held. Plan for day: START to deploy air stations and to perform inventory of liquid US for in-cistors w/ EHA. ERS will troubleshoot.

generator that is not starting. All totes of just for only have been processed and are in secondary containers. More far around site will be placed into secondary <sup>containers</sup> ~~containers~~. ERS will overpack drums and make sure secondary containment is buttoned up for break.

Safety topics include: driving safety, working in heat, and complicity. ca

0710 START begins set up of air monitoring stations. AS01-AS04

0755 All air monitoring stations deployed

Location	Area/Code	Dust/Code	DNC
AS01	Unit 5	SB7533	234
AS02	Unit 8	SB7532	143
AS03	Unit 7	SB7531	133
AS04	Unit 6	SB7534	141

07-02-21

3 7/21/21 CL Onaska TRA CL

0800 ERS begin tar solidification, tote deconstruction in secondary containment.

0825 Connection issues w/ AS03. will troubleshoot this morning.

0835 ERS continuing deconstruction of totes. Power from generator has been fixed.

0920 START to inventory totes - started outside BDD4 to determine volume

0950 Clean Harbors arrive with two 20 cy Rolloffs. START finished w/ inventory of totes sledge w/ liquid

1030 ERS filling 20 cy rolloff w/ solidified tar. ca

1100 ER continuing to fill 20 cy rolloff w/ solidified tar. Contaminated material.

1110 AS03 Viper is up and running. DNC had to be reset and unplugged.

Several totes. 1200 ERS and crew break for lunch. 1230 ERS resume work. Continue to deconstruct totes and to start overpaks.

07-02-21

07/02/21 AL Onaska TRR CC

1325 ERRS received delivery of NADH solution.

1330 Ste walk w/ ERRS about which drums to overpack. ~~SD~~ drums overpack in B001. biochar in B003 to be disposed using solidification in per secondary sec containment.

1 drum to be overpack in B003. 1340 ERRS begin overpacking drums in B001. ~~SD~~ Seven drums were re-prepacked in B001.

1415 ERRS overpack one drum in B003. 1430 ERRS overpack one drum in B002. Looking to consolidate D001A,B,C into one drum.

1530 ERRS spending wood chips in secondary containment & per START to take down air stations ASD1, ASD3, and ASD4 for Brooks. ~~CC~~

1600 START Jigsaw ASD4. 1610 Afternoon meeting. ERRS had a load rejected shipped out on Wednesday. It will come back to site and be pumped into tote cc Clean Hybrids facility and pump into totes and can tanks will need extensive cleaning.

07-02-21

7/02/21 AL Onaska TRR CC

1610 (continued) After cleaning it will be re-transported. ERRS received NADH totes. ERRS received a -90cc rolloffs and loaded one with solidified tar and one w/ RRA debris. Overpack drums. Crushed metal and cleaned up secondary containment for weekend.

1630 Tuesday Clean Hybrids will pick up rolloffs and overpack drums. ERRS will begin neutralizing totes.

1710 START and EPA demobilize from site. End of log day.

*[Handwritten signature]*

07/02/21

07/06/21 Onalaska TAA CC

0635 START Landrum arrive on site  
Weather Forecast 54°F - 85°F, cloudy in  
morning, Sunny in afternoon, winds  
0-6 mph from Southeast.

0700 Safety meeting w/ ERKS, START,  
and EPA. Start to deploy air stations  
after meeting. Clean Harbors coming to  
load out small containers and lab pack  
drums. Drum drums will be removed  
from site. Neutralization today to be  
deferred. Tar-coated metal to be  
let down. Small containers containing tar  
can be gathered and put into secondary  
containment. Biofuel can be gathered and  
dumped in piles on site.

0710 START begins set up of air  
monitoring stations.

0720 Late entry. Safety topics from meeting  
include hyflation, sunscreen, and vehicle  
and air monitors.

0745 All air monitoring  
stations deployed - cc

Location	Area	Dusttrak	DNC
AS01	Unit 5	SB7533	034
AS02	Unit 8	SB7532	143
AS03	Unit 7	SB7531	133
AS04	Unit 6	SB7534	141

07/06/21 Onalaska TAA CC

0750 ERKS moving containers with tar  
material into secondary containment

0800 Connection issues w/ AS01 dusttrak  
to VPER.

0830 Connection issues subsided after  
resetting line and replacing antennae.

ERKS continuing to move tar material  
from BD03 to secondary containment.

0900 ERKS continuing to empty drums  
with tar material in secondary containing

0915 Clean Harbors arrive on site.

0930 ERKS cutting open tank on  
top containing tar. Misc Tank 3  
located in eastern portion of  
secondary containment area. ERKS  
continuing to unload sludge/tar material  
from small containers as drums  
in secondary containment area.

1015 ERKS continuing to scoop out tar  
from small containers.

1030 ERKS working w/ Clean Harbors  
to create labels for lab pack drums.

1050 ERKS moving lab packed drums  
and cubic yard box from BD03 to be loaded  
onto Clean Harbors truck for transport.

07-06-21

8 07/06/21 Alaska TARA

1100 ERRS to cut the top of tank containing sludge when in secondary containment area.

1105 ERRS loading labeled, overpacked drums and cubic yard box into Clean Harbors truck for T3D.

1130 ERRS removed the top of tank 3W ~ 2500 gallons of tar in secondary containment area.

1140 Clean Harbors truck loaded w/ overpacks, labeled drums, and cubic yard box.

1200 ERRS break for lunch.

1300 ERRS to continue cutting up tanks to remove more tar in secondary containment. Clean Harbors demobilized from site.

1330 ERRS continuing to cut down tank w/ sludge.

1340 ERRS retrieved tar from cut tank. Pieces of cut tank and solidifying it using sand dust. RRA debris temporarily removed from secondary containment area.

1430 ERRS cutting drums open that contained tar.

07/06/21 Alaska TARA

1435 ASD1 dustpak VPER connection went down. Will trouble shoot.

1450 ASD2 AirRc sustaining then readings around 0.9 ppm. When moved to find air, reading still sustained. Performed a fresh air calibration in a clean air environment.

1500 Afternoon Meeting: ERRS completed overpacking drums, Clean Harbors took 13 55 gallon overpack. They took labeled and cubic yard box. Started to disassemble tank of sludge in secondary containment. ERRS took small get-together containers from around site that contained tar-related material.

ERRS to start neutralizing totes today.

ERRS called Clean Harbors to request additional storage for off boxes for RRA debris and solidified tar.

ERRS requested rolloffs to be removed off site. A salt filter will be delivered from US Dept. of Energy. Tomorrow: Start draining the tar from the tanks, continue the neutralization process of totes.

07/06/21

07/06/21



07/7/21 T.L. Onalaska TCRA T.L.

0645 START Low onsite Weather Light rain/misty, 56-79°F forecast, winds from SE @ 2-5mph T.L.

0200 safety meeting held. Plan for the day, address totes staged south of Leurs-Lo area with NaOH, raise pH to at least above 6.03 and prepare addressed totes for disposal pump by Friday. T.L.

0710 Due to light rain and mist START will only deploy AreaRacs as DustTraks are sensitive to water intake.

0734 ERRS dresses into Level C PPE and begins treating first 7/7/21 tote with NaOH in tote staging area. T.L.

0832 United Rentals onsite to address site trailer generator issues. T.L.

0838 ERRS tote PH treatment process continuing, ERRS is pumping limited NaOH into totes, then letting reaction occur and checking pH final time before considering tote completed. T.L.

NaOH adding occurring in at least 0.5 gallon increments. T.L.

1452 First tote of 7/7 completed, starting pH and volume were 3.69 and 270 gal

T.L. Onalaska TCRA 07/07/21 T.L.

1452 pending pH and volume are 7.8 and 280 gallons T.L.

1500 Afternoon meeting. ERRS continuing to neutralize totes, 22 currently being addressed, ERRS received a set of two filter set-ups to filter neutralized liquid before it goes into offsite disposal pump trucks. T.L.

(1) truck for neutralized liquid to arrive Friday. T.L.

(2) more trucks to arrive next week. ERRS to receive 100 200y rolloffs this week by COB Friday for solidified sludge/tar. T.L.

1605 ERRS continuing to add NaOH to totes. START capturing result pH and end volume of all totes addressed. T.L.

1649 Most totes reacting and seem to be stabilizing around 6-7/8 pH ERRS to let mixtures sit over night and check in the morning. T.L.

1732 Team demobilizes for the day. End log day. T.L.

7-8-21 T.L. Onalaska TCRA T.L.

0645 START Low onsite weather!

Party Cloudy, 52-71°F forecasted winds from SE at 2-6 mph.

0700 Safety meeting held START discusses safety topics, Plan for day, EFRS to cont. mixing/neutralizing totes and preparation of stabilized totes after NaOH addition, for disposal/pumping

0710 Doe to minimal site activity area START low discusses with OSC deployment

only one DustTrak near work area as need for all 4 DustTraks not necessary

0751 All area Racs deployed and (1) Dust Trak @ ASO1 near work area.

ASO1 Location EL Area Race IL DustTrak 24 INC

ASO1 Units 5 SB7533 - 234

ASO2 Units 8 Not deployed - Nd

ASO3 Units 7 Not deployed - Nd

ASO4 Units 6 Not deployed - Nd

0801 EFRS begins checking pH of all 22 totes Neutralized/added NaOH from yesterday. Most totes within ideal (desired) range of 7-8 pH. Few at 10 pH, EFRS to address adjust by pumping out 10 pH tote into spare tote and then adding vinegar.

7-8-21 T.L. Onalaska TCRA T.L.

0904 EFRS begins addressing next group of totes. Previous (22) all stabilized and showing pH of 5.7 - 7.9, average range of 22 group is 6.8 pH.

EFRS will address next group of totes by adding NaOH slowly, no more than 3 gal. initial, then observe reaction result and more NaOH as needed, (22) wood Vinegar volume of totes equal to 5470 gal.

0927 START low calibrates pH meter with on site pH solution.

1105 EFRS continuing to address new group totes all south side of Leun-To Wall. 21 totes staged in 2 rows for

Late Entry (933) Lewis County Public Utility District/National Metering F.

and Technical Services employee onsite to check electricity meter on pump house.

1202 EFRS breaks from lunch.

1238 Team returns from lunch.

1252 Clean Harbors onsite dropping (2) 20 oz roll off boxes.

EFRS Done moves contaminated debris metal into roll off 20 oz box.

EFRS continues to address

vinegar totes

W.V. totes

16  
7-8-21

I.L. Onalaska TCRA

F.L.

1500 Afternoon meeting; ERRS completed

Neutralization of 22 totes at staging area

ERRS began addressing 10 more totes, F.L.

(3) 20 cy. roll-offs were delivered, F.L.

ERRS filled 2 with mixed metal and

plastic contaminated, currently onsite

(5) Wood tar/solidified, (3) mixed F.L.

debris, and (1) empty roll-off. F.L.

ERRS plans to put together the two

sock filter casings. F.L.

Tomorrow: (1) truck onsite to pump F.L.

Neutralized wood vinegar. Tote Neutralized

to continue, (7) 20 cy. roll-offs to arrive

onsite for debris and wood tar/solidified

tote. F.L.

1607 ERRS begins assembling sock

filter casings in Pexylsis building.

1609 START Given permission to begin

breaking air-monitoring stations down.

Team demobilizes. End log day.

Onalaska TCRA

7-9-21

0645 START Low onsite weather;

57-81°F forecasted winds from

SE 1-6 mph, partly cloudy. F.L.

0700 Safety meeting held. Plan for

day: (1) Pumping truck to arrive onsite

and receive 5,000 gallons of neutralized

Wood Vinegar. PH 6-7. ERRS to stage/

setup filter system between pumping truck

and tote so as to prevent extraction

of any tar from bottom of pumped

totes. At conclusion of pumping ERRS

will continue to Neutralize more totes,

breakdown empty totes, load 20 cy

roll-offs with physical waste and

stage roll-offs for pickup. F.L.

0710 START begins air-monitoring

stations setup. F.L.

0820 All air monitoring stations setup.

0828 Pump truck onsite to receive wood

vinegar. ERRS begins setting up the

pumping line, with filter, to totes.

0840 Pumping starting, of 22 neutralized

totes from Wednesday earlier this week

Late Entry 0727 START low bumps

Area Rae Unit 2 due to Oa sensor

readings, sensor corrected. F.L.

18 T.L. Onalaska TRPA T.L. 7-9-21

1028 Clean Harbors onsite dropping 20 cu roll offs

ERRS continuing to pump neutralized wood vinegar into pump truck

Note DustTrak @ location ASO1 not communicating to Viper software due to pump truck signal interference

1103 Two ERRS crewmen demobilizing, one crewmen onsite, Chase with EQM, One crewmen onsite

Late Entry 0820 A's monitoring locations:

Location T.L. Area/Rue T.L. DustTrak T.L. INC

ASO1 Unit 5 SB7533 234

ASO2 Unit 8 SB7532 143

ASO3 Unit 7 SB7531 133

ASO4 Unit 6 SB7534 T.L. 141

1336 ERRS having pump issues despite sock filter, viscosity of sludge has/wed

vinegar potentially hindering pump flow rate

1412 Pumping complete of nitrog

5,476 gallons from 22 totes (neutralized)

ERRS was able to pump 4,300 gallons into truck, PH reading in truck is

PH 6.33

1435 Truck leaves site for disposal

7-9-21 T.L. Onalaska TRPA T.L.

1500 Afternoon meeting: ERRS received

3 more 20 cubic yards roll off boxes ERRS vac. system set up and ERRS

was able to vac 4,300 gallons into pump truck onsite ERRS used

sock filters and PH in truck 4300 gallons was 6.33. ERRS to remove

far from pumped totes and process tote cages and poly casings with wood chips

ERRS having issues with rejected wood vinegar truck attempting to dispose

at Aragonite Clean Harbors facility. Tomorrow ERRS to Neutralize more totes

and process tote cages and solidify tar wood waste

and Neutralization of 3,000 gallon tank

1605 ERRS deconstructing totes that were pumped today empty today

1715 ERRS stops operations, START begins taking down air monitoring station

1732 Team demobilizes from site. End log day.

*[Signature]*  
7-9-21

0640 START low onsite. Forecasted weather 54-75°F, Partly Cloudy, winds from SE at 2-7 mph. T.L.

0700 Safety meeting held, plan for day yesterday, then solidify tar in secondary containment and deconstruct empty jars. ERS will also pH check/fine tune the 21 tote <sup>had</sup> started neutralization on ~~test~~ Wednesday (7-7). ERS will also begin Neutralization on the tank 4 and 5, 800 and 3,000 gallons respectively. T.L.

0715 Due to refined ERS work area START only deploying (1) DustTrak at ASO2 location and All Area Raes. T.L.

0845 Air monitoring equipment deployed ERS solidifying tar and breaking down totes in secondary containment. START low checking PH of 21 totes addressed starting 7/7 T.L.

0850 ERS checks PH of tank 5, 3,000 gallon, PH = 3.34, START check PH of 500 gallon poly tank in BDO1, PH = 3.2. T.L.

0915 ERS begins adding NaOH to Tank 5 for neutralization. T.L.

1100 ERS continuing to solidify tar and deconstruct totes. Contaminated and non contaminated tote waste being placed in respective 20 cr. rolloffs T.L.

1200 ERS/Team stops for lunch T.L.

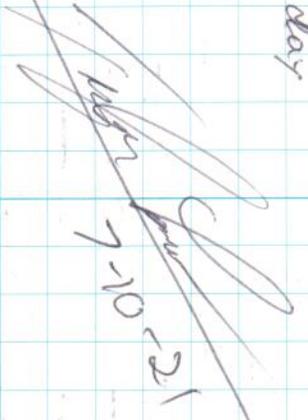
1332 Team returns from lunch. T.L.

1300 ERS begins fine tuning/topoff Neutralization of 21 totes started on Wednesday. T.L.

1524 ERS release contents/jar of remnants of tank 3 into secondary containment for solidification. T.L.

1602 With no concerning air particulate or chemical hazards, OSC Fowlow allows START low to break down gas stations early. T.L.

1640 START demobilizes from site ERS crew to stop work at 1700 End log day T.L.

  
7-10-21



T.L. Onaska TCRA T.L. 7-12-21

[1515 cont.] ERRS to receive (4) roll-offs

and (1) tanker truck tomorrow → T.L.

[1609] ERRS continuing to neutralize totes at staging area, and solidify tar in secondary containment. → T.L.

[1702] ERRS begins to stop operations START to retrieve air monitoring locations. → T.L.

End log day.

*[Handwritten signature]*  
7-12-21

7-13-21 T.L.

Onaska TCRA T.L.

[0645] START Low onsite, Forecasted weather: Partly cloudy - clear, 54° F - 80° F winds from SE @ 5-15 mph

[0700] Safety meeting held. Plans for day: Fine/complete neutralization on all totes and pump completely treated W.U. into pump/tanker truck. → T.L.

~~[0710]~~ [0705] Pump truck onsite. → T.L.

[0710] START Low begins calibrating all Area Rae units as part of monthly calibration check. → T.L.

[0735] Area Rae Units SB7544, SB7543, SB7541, and SB7542. → T.L.

[0740] Air monitoring stations deployed. → T.L.

Location: Area Rae I.L. Dist. Trk. - LIND. T.L.

ASO1 - Unit 5 - SB7533 - 234 -

ASO2 - Unit 8 - SB7532 - 143 -

ASO3 - Unit 7 - SB7531 - 133 -

ASO4 - Unit 6 - SB7534 - 141 -

[0745] Pump truck begins pumping of 3,000 gal. tank S AST, neutralized wood chips through sock filter manifold system. → T.L.

[0735] Late Entry ASO4 moved to northside of secondary containment near pumping operations. ASO1 Area Rae Passed calibration for Mixed gas O<sub>2</sub>, CO, H<sub>2</sub>S, HCL%, HCN, and VOCs. → T.L.

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26  
7/13/21

Onalaska TCRA T.L.

0254 ERRS Foreman begins solidification of far in secondary containment T.L.

0802 Clean Harbor's track on site. Dropping two 20 cubic yard rolloff boxes T.L.

0828 START, due to minimal Dust condition pulls other DustTraks from Field and only deploys ASO2 SB7532 DustTrak near F.L. excavator work T.L.

Note, connectivity <sup>USGS</sup> with Viper network occurring T.L.

Area Unit 7 also moved to ASO2 on south side of secondary containment with DustTrak SB7532. T.L.

0855 Pumping track completes extraction of all fluid in AST tank 5, 3000 gals. Pumping truck moves to tote staging area to add tote volume to remaining track tank volume. T.L.

0900 START Low moves arealRae unit back to ASO2 and arealRae unit back to ASO3 on south side of Leam-To T.L.

1020 WA Ecology Dee Williams and co-workers on site. T.L.

1051 WA Ecology and EPA/START talk with Lewis County treatment facility

27  
7/13-21 T.L.

Onalaska TCRA T.L.

1051 employees. about ~~of~~ observations of previous site activities, and facility water sampling thoughts T.L.

late Entry 1035 tanker/pumping truck leaves site having successfully pumped ~4,500 gallons of neutralized wood vinegar, 3,000 gals from Tanks AS5 and ~1,500 from remaining NaOH treated totes. T.L.

1202 ERRS completes breakdown and solidification of AST tank 5 and far F.L. ERRS continuing neutralization/fine tuning of remaining totes needing NaOH. T.L.

1210 ERRS breaks for lunch ERRS TL TL site turns from lunch T.L.

1258 ERRS continuing to AST 5 and deconstructing tank. Other half of crew neutralizing few non-addressed totes F.L.

1421 START and EPA take site walk to determine if any remaining totes reside on site. T.L.

1440 START and EPA discover drainage ditch in NW property corner that was mentioned by Lewis County water treatment employees T.L.

7-13-21 T.L. Onalaska TCRA T.L.

Afternoon meeting, 1500 ERS received

(1) Pump/Vac trucks, truck pumped all of AST tank 5, 3000 gallons and 5 tote worth 1,500 gallons. for total 4,500 gallons. ERS received (4) 20-25 c.y. roll off boxes. All wood vinegar needing neutralization was addressed today. including 500-gallon poly tank. AST steel tank 4 was emptied into 2nd. containment for solidification, STARTOS conducted site walk and found one (1) Ft drum/poly tote in preanalysis building Ft. Tomorrow, ERS to receive (1) truck for wood vinegar pump.

4R totes remain onsite, 7 of 4R are onsite contain far/sludge, remaining 35 contain neutralized wood vinegar. (includes 500-gallon poly, worth 2 totes). Ft-18 roll offs onsite, 12 contain wood for solidified/debris, 1 is scrap metal, 1 is Non-RCRA, 4 empty (blue) roll offs (1732) Team demobilizes for the day. End log day.

Logan 7-14-2021

7-14-21 Onalaska TCRA T.L.

0645 START low onsite, forecasted

Weather: Light rains, Part Cloudy. -

57-73°F, winds from SE 1-8 mph.

0700 Safety meeting held. Plan for day, receive one Pump/Vac. truck to pump neutralized wood vinegar totes. Continue solidifying wood far totes and breaking down tote poly and metal.

0710 Vac truck onsite. START low deploying air monitoring stations. Due to light rains and limited vehicular movement onsite today, only (1) DustTrak will be deployed at ASO2 location near excavator work.

0745 Air monitoring stations deployed.

ASO1 - Area 5 - DustTrak 58753 - 143

ASO2 - " - 8 - DST87532 - 143

ASO3 - " - 7 - not deployed - 133

ASO4 - " - 6 - not deployed - 141

0810 START low assessing remaining totes, reports PH levels to ERS, 2 totes may need re-fining.

0815 Vac truck begins pumping wood vinegar through Sock Filter systems.

30 7-14-21 T.L. Alaska TCPA T.L.

1005 ERRS continuing to pump Wood Vinegar (Neutralized) into Vac Pump truck. ERRS Foreman Dane continuing to break down AST tanks physical debris and solidify residual tar.

1040 Vac truck completes pump ~ 4,500 gal of Wood Vinegar (Neutralized) 45 totes emptied with exception of residual tar

1130 ERRS picking up remaining tar containers in pyrolysis building and bringing to sec. containment for solidification. T.L.

1230 ERRS PM Holz, OSC Stanfeld, STAR Law begin site check walk. All buildings being checked. Note: Pyrolysis Machinery footprint, equipment, items, and Pyrolysis machine itself will be left on site.

EPA, ERRS to only remove waste in totes and outdoor ASTs as well as secondary containment cleanup.

1302 ~~STAR~~ ERRS continuing to PH balance remaining wood vinegar. T.L.

1402 ERRS completes PH balance of all remaining totes of wood vinegar on site, all totes ranging from 5.7-7.4

ideal range being around 6 PH. T.L.

7-14-21 T.L. Alaska TCPA T.L.

1402 cont 18 neutralized totes and the 500 gallon poly tank remain to be pumped. T.L.

1500 Afternoon meeting; ERRS pumped out 17-20 totes for total of ~5,000 gal

17-18 totes remaining on site, 40 cy roll off shipped for disposal, 20 cy roll off dropped, Neutralization and balance of all totes ~~continued~~ was completed.

Man lift was demobilized from site. (2) empty 20 cy roll offs onsite. Tomorrow (1) wood tar and (1) RCRA debris to leave. Solidify remaining tar and process tote casings. Roll offs to begin leaving site tomorrow. T.L.

1601 ERRS asks STAR Law if running additional analysis on samples subm. that July 1st 2021 for 1311 TCLP <sup>SUE</sup> analysis under START TO funding is possible if hold time on sample has not been passed.

Request comes due to Waste Management facility that would potentially receive solidified wood tar waste, reported that data from RSE samples did not show case, low enough reporting limits, ERRS

wanting to run TCLP SUDC on sample ASAP.

32 7-14-21 T.L. Onalaska TCRP T.L.

11550 TCLP SVOC analysis run for July 1st waste samples confirmed with OSC Stanford

Fremont will begin analysis today F.L.

1710 START Low begins breakdown of air monitoring locations. T.L.

1730 Team demobilizes from site. End log day.

~~Handwritten signature and scribbles~~

7-15-21 T.L. Onalaska TCRP T.L.

1645 START Low onsite. Forecasted

Weather: 53-69°F, Partly cloudy/clear skies, Winds from North 1-3 mph

0700 Safety meeting held. Plan for day: Receive Clean Harbors truck for removal of contaminated debris and solidified wood tar rolloff removal.

Continue solidifying tar from neutralized totes in secondary containment with wood chips/sawdust. ERRS will also continue breakdown of emptied totes.

0710 START begins deploying air monitoring stations, due to limited site vehicular activity, only one DustTrak containment and excavator work.

will be deployed at AS02 near secondary

Location T.L. Area Rae T.L. DustTrak T.L.

AS01 Unit 5 not deployed ND

AS02 Unit 8 SB2532 143

AS03 Unit 7 ND ND

AS04 Unit 4 ND ND

0745 START Low does Oa bump on Area Rae Unit 7 at AS03, spike readings recording are from calibration gas at this time. T.L.

0750 All air monitoring stations deployed

T.L. Onalaska TCRA T.L. 7-15-21

0755 Clean Harbor truck onsite to get pickup @ RB c.i.x. rolloff boxes. F.L.

0830 Truck demobilizes from site, ERRS continuing to empty tar and deconstruct totes.

1105 ERRS continuing to empty tar from <sup>T.L.</sup>metalized totes, solidify tar in secondary containment, and deconstruct totes, F.L.

1200 Team breaks for lunch. F.L.

1235 Team returns from lunch. F.L.

1300 ERRS continuing to solidify tar and break down totes. F.L.

1500 Afternoon meeting. ERRS continued to solidify tar and process tote casings. F.L.

2) rolloffs left site, one debris, one tar. F.L.

Tomorrow, vac/pump truck cancelled. ERRS to receive truck on Monday. <sup>T.L.</sup>Rolloffs scheduled to go to Arroyo site or <sup>(debris)</sup>Crassy Mtn in Utah. <sup>T.L.</sup>Rolls to be picked up Mon, 2-4 on Thurs and 2 on Fri. F.L.

ERRS tomorrow. Continue emptying tar and break down totes. F.L.

1730 Team demobilize for the day. F.L.

End log day.   
 *Log 7-15-21*

7-16-21 T.L. Onalaska TCRA T.L.

0645 START Low onsite. <sup>T.L.</sup>Forecasted weather: 55-65°F, partly cloudy/clear skies. <sup>(MP)</sup>Wind.

0700 Safety meeting held. Plan for day, ERRS to continue solidifying tar and breaking down totes. F.L.

0710 START Low begins setting air monitoring locations. F.L.

Location T.L. Area/Rate T.L. Dust/Trak T.L. LINC

AS01 T.L. Units T.L. Not deployed 243

AS02 T.L. Units T.L. SB7532 T.L. 143

AS03 T.L. Unit T.L. SB7531 133

AS04 T.L. Unit T.L. Not deployed 141

0750 Air monitoring locations deployed. ERRS continuing to solidify tar and break down totes in secondary containment. F.L.

0815 Fremont Analytical calls START Low reporting that even if rushed weekend lab work requested, Fremont will not be able to report 1311 TCLP SVOC waste sample analysis until Tuesday 7/20/21. F.L.

1002 ERRS continuing to solidify tar from neutralized totes and break down tote poly and metal casings. Woodchips still being used to solidify tar. Wood from two white tents on North end of site near trailers. F.L.

of site near trailers.   
 *Log 7-16-21*

T.L.

Onalaska TCRA

T.L.

7-16-21

1158 Crew completes solidification of emptied neutralized wood vinegar totes. 18 full neutralized totes and neutralized 500 gallon poly remain onsite for Vac truck pump onsite. ERS to begin cleaning site of all poly, PPE, containment structures and moving of Biochar super sacks to BDO1 so sacks not exposed to weather elements. T.L.

1305 Crew breaks for lunch. T.L.

1349 Crew returns from lunch. T.L.

1302 Crew continuing site cleanup activities. ERS crew to begin moving pallets of Biochar super sacks under lean-to. Hi START low takes down air monitor station ASO4 to provide room, with no wood vinegar or tar under the lean-to any more ASO4 will be moved to different location tomorrow.

1500 Afternoon Meeting. Remaining emptied tote (neutralized) for solidified and tote casings being processed, loaded for debris into 40 c.y. rolloff. Started Biochar re-locator to South warehouse BDO1. Started moving super sacks from outdoors to lean-to. ERS also sweeping remainder out of secondary containment. T.L.

7-16-21

T.L.

Onalaska TCRA.

T.L.

Rolloff schedule. 6 RoB picked up on Monday, 2 RoBs dropped on Tues, 2 RoBs picked up on Wednesday, 2 RoBs picked up on Thurs., 4 RoBs picked up Friday 7/23. T.L.

(1) Tank truck to receive last of wood Vinegar (neutralized) for disposal. ERS to report on tanker truck rejected issue and potential onsite truck clean on Wednesday. 7/21. T.L.

ERS approved initial rejected truck amendment plan from clean harbors on July 9th. ERS to accept new plan amendment today, with Clean Harbor assurance personnel, equipment, and will all be provided by Clean Harbors. T.L.

1409 ERS continuing to move Biochar pile into BDO2 and stage Biochar Super sacks under lean-to. T.L.

1432 Due to limited exposure risk from wood vinegar and work ops ceasing inside secondary containment for the day, OSC tasks START to break down air monitoring. START will also demobe until Monday 7/19 when waste pumping ops resume. End log day 7-16-21

T.L. Onalaska TCRA T.L. 7-19-21

0645 START Low onsite, forecasted weather S3-7gpf, clear, winds from SE 2-8 mph T.L.

0700 Safety meeting held. Plan for today, fill pump/vac truck arriving with remaining wood vinegar (neutralized). ERRS to then solidify remaining tote tar. 3-roll-offs remaining arriving onsite, 6 roll-offs to be on site today 4 to Grassy mtn. disposal, 2 and 2 to Aragonite disposal facility with both in Utah. T.L.

0710 START begins deployment of air monitoring stations, due to limited site activities, START deploying stations as follows. T.L.

Location T.L. Area/Race T.L. Dist/Trak T.L. INE

ASO1 Unit 5 n.d. n.d.

ASO2 Unit 8 SB7532 143

ASO3 Unit 6 SB7531 133

ASO4 Unit 7 not deployed 2 L n.d. n.d.

0730 START Low documents <sup>activities</sup> dismissed on Saturday 7/17. ERRS completed move of Biochar pile under BDO2 and BDO1 (North and South warehouses). ERRS also moved all site super sacks under beam-to area. T.L.

0732 (2) trucks onsite to receive RoB's. T.L.

7-19-21 T.L.

Onalaska TCRA T.L.

0750 Viper Network connection for DustTraks interrupted due to RoB's trucks onsite interfering with signal to site gateway. As in previous instances onsite with waste receiving trucks. T.L.

0815 Pump/Vac. truck onsite to receive neutralized wood vinegar. T.L.

0830 Pump/Vac truck begins receiving neutralized wood vinegar through sock filter. T.L.

0840 Truck attempting to load first 2 RoB's is not able too, 2nd truck lends truck component to broken truck loading system. T.L.

0852 Truck initially with issues is able load two RoB's, second truck now can't load, Drivers troubleshooting. T.L.

0949 ERRS begins break down of emptied neutralized totes, in secondary containment. T.L.

1038 Truck pumps 4, 300 gal from few remaining onsite totes and 500 gal poly tank and demobilizes for disposal facility in Arkansas. T.L.

1230 Truck initially broken down to receive roll off boxes is fixed and leaves <sup>site</sup> with other truck, (2) RoB's <sup>demobilized</sup> T.L.

T.L. Onalaska TCRA T.L. 7-19-21

1300 ERPS continues wood tar solidification from neutralized totes and is cleaning site equipment. T.L.

1421 Clean harbors truck onsite dropping 2-roll off boxes. T.L.

1433 Clean harbors truck loading two Rob's for ~~some~~ disposal. T.L.

ERPS continuing to solidify tar and clean equipment. T.L.

1515 Team breaks down equipment and demobilizes, End log day. T.L.

*[Handwritten signature and scribbles]*

7-20-21 T.L. Onalaska TCRA T.L. 41

0645 START low onsite forecasted weather! Partly cloudy to clear skies, light rains, 56-73°F T.L.

0700 safety meeting held. Plan for day. ERPS to continue solidifying tar, and breaking down totes metal and poly. T.L.

ERPS to also demobilize equipment to Seattle, two more Rob's being dropped. Trailers getting demobilized Monday, Friday Power and bathrooms to demobilize.

0730 START low deploys stations. Location Area Rue T.L. Destrade IL IINC

AS01 Unit 5 n.d. n.d. n.d.

AS02 Unit 8 SB7532 143

AS03 Unit 6 SB7531 133

AS04 Unit 7 not deployed n.d. n.d.

0900 ERPS crew Dam and Shore demobilize for Seattle with equipment to be returned to U.S. Ecology ERPS subcontractor. START low brings in Area Rue Unit 6 with OSC approval due to operations no longer happening near air monitoring station. START begins onsite cleaning and storing of equipment not in use. T.L.

1028 ERPS begin breakdown of steel AST tank 4 inside secondary container.

T.L. Onalaska TCRA T.L. 7-20-21

1200 Team breaks for lunch. T.L.

1240 Team returns from lunch. T.L.

START continuing to clean and pack equipment.

1500 EFRS continuing to clean and conduct

site maintenance such as smoothing

out site gravel roads. T.L.

1600 Afternoon meeting, tanker onsite @ 7am,

in Tacoma WA in Onalaska, to open and

check for tar. If tar present, trucks to

go to Tacoma, WA, for offload, then return

to site for cleaning. (2) ROB's Filled with

solidified tar. All equipment cleaned and

returned to U.S. Ecology. Profile for NaOH

settled, U.S. Ecology will take remaining NaOH

onsite, Tomorrow (2) ROB's to arrive onsite

Potential truck cleaning operations. T.L.

(1) ROB's onsite filled, (2) ROB's to be taken

1645 EFRS packing up site. T.L.

START breaks down air monitoring. T.L.

17 Team demobilizes from site. T.L.

End log day.

*Chen*

7-20-21

*Chen*

7-20-21

7-21-21 T.L. Onalaska TCRA T.L. 7-21-21

0645 START low onsite. Forecasted weather:

49-72°F partly cloudy, winds from SE 2-8 mph.

0700 Safety meeting held. Plan for day.

Receive two roll off boxes, and load two fill

Roll off boxes for disposal. Receive tanker

with tar solids that could not be pumped

out of clean harbors facility. Check tar

volume in tanker and determine if tanker

can go back to Tacoma facility for offload

and clean out or if tanker truck needs

to have confined space entry clean out

onsite. T.L.

0715 START low deploys only ASD1

air monitoring location near secondary

containment, Area Rae Unit 8, DustTrak

unit SB7532 and LINC 143. T.L.

0730 Clean Harbors truck onsite to

receive two ROB's and drop two ROB's

EFRS packing field equipment for

demobilization to Seattle. T.L.

0855 Tanker truck (Pump/Vac) onsite to have

tar level checked. T.L.

0930 RM Holz and EFRS Edwards check

tar level at center and back top entry

access points, tar level on bottom uppers

to be 5 inches at center and 4 inches at back

T.L. Onalaska TCRA 2-21-21

0930 cont. Truck isn't completely level and would explain 6 inch tar depth at back tail end of tank as back end is lowest point of above ground of tanker. (1)

0943 Tank truck mobilizing for Tacoma Clean Harbors facility. (1)

1110 ERRS continuing to clean and demobilize equipment for U.S. Ecology. ERRS also decontaminating Excavator and staging filled roll-off-boxes. (1)

1200 ERRS breaks for lunch. (1)

1231 ERRS returns from lunch. (1)

1322 WA Ecology, Dee Williams onsite to conduct site walk with EPA and START.

1402 WA Ecology and OSC Stanfield demobilize.

1417 OSC Fowlow onsite. (1)

1500 Afternoon meeting; ERRS reports that Clean Harbors will be onsite tomorrow to conduct confined space entry and cleanout of tanker with residual tar. START to mobilize site safety officer Tom Worman to site to assist in safety oversight of confined space entry.

(2) 20 cy. RoB's demobilized from site and (2) empty RoB's delivered. Aragonite received Full ones. (2) crewmen demobilized equipment to Bethel and containment

T.L. Onalaska TCRA 7-21-21 45

1500 cont. Cleanout was completed. All equipment to be removed by end of day Tuesday. (1)

1 and 2's totes full of water for from tanker offload, 1-1.5 inches tar remain in bottom of tanker to be cleaned out. Remaining solidified tar (11) bins and tar debris are approved for arlington OR facility for disposal, 6 RoB's will go of tomorrow, 5 other RoB's TBD.

Tomorrow (2) 26 cy. will be picked up tomorrow. (4) on Friday, ERRS to continue equipment clean/demob and 3 ERRS to demobilize, Clean Harbors onsite to conduct confined space clearing.

1414 Crew begins to breakdown and prepare for demobilization. (1)

1730 Team demobilizes from site see emails received related to Clean Harbors tanker truck clean out/confined space entry for more specific details. (1)

*[Signature]*  
7-22-21

Onalaska TCRA

7-22-21

0645 START low onsite, forecasted weather in 58-72°F Partly cloudy. winds 0-8 mph SE

0700 Safety meeting held. Plan for day.

Receive tanker from clean harbors and provide oversight of confined space entry-cleaning. ERRs to breakdown remaining secondary containment walls and stage

RoB's (filled) for pickup.

0710 START sets up air monitoring.

0745 START Woman onsite to assist with CPE clean harbors operation.

ERRs assessing secondary containment for further cleaning and staging roll off boxes.

0800 Clean Harbors onsite, begin setting up CPE entry START providing oversight.

1015 START calibrates SB7022 Mithrac gas bottles are listed in site equipment.

1211 Safety meeting held with Clean Harbors after receiving revised safety plan. ERRs approves of safety plan after review.

19 plans to attempt cleaning/power wash of inside of tank. 1-1.5 inch of tar on bottom, will be power washed with 'Alpha Soap' and steam. CPE will attempt not to hot conduct CSE.

Reference Clean Harbors H2SP for details. T. E

Onalaska TCRA

7-22-21

1242 ERRs begins breaking down secondary containment wall.

1255 Clean Harbors decides confined space entry is needed. CSE to commence.

1340 Clean Harbors truck onsite to receive RoB's

1425 Clean Harbors truck demobilizes with RoB's, from site

Clean Harbors crew still attempting to clean far out of the tanker pump truck.

1430 OSC Stanfield Onsite.

1530 Smoldering noticed at rear roll off box near front gate, ERRs Eduardo and START Low extinguish fire believed to have been caused by dry wood chips sun exposure.

1600 later Confirmed Clean Harbor cig. but caused smolder.

1628 START Low and Woman meet with OSCs. Woman points out items/activities to watch tomorrow during confined space entry (CSE) and gives list of items to consider during oversight. Clean Harbor team demobilizes.

Team demobilizes for the day.

48 7-23-21 — Onalaska TCRA — T.L.

0700 Safety meeting held Plan for day.

Oversee Clean Harbors Clean-tanker truck.

(9) RoB's, Scrap metal bin and NaOH to be picked. (5) RoB's still onsite. — T.L.

0715 STARV, ERRS EPA Packing up site. — T.L.

0830 Clean Harbors team onsite. — T.L.

0946 Clean Harbors attempts power wash since

of tank, then conducts air monitoring in tank

with and without ventilation and confirms no damage

or concerning air monitoring readings. CH team-

to apply Level C PPE, enter and tank for tar

cleaning. All operations being conducted in accordance

with OSHA Alternative methods entry. WAC —

296-809-600 — T.L.

0950 Clean Harbor personnel begin (U man)

entry to clean inside of tanker — T.L.

1045 Personnel exits tanker — T.L.

1055 OSC Fowlow states oversight of remain-

ing tanker cleanup operations and demobiliza-

tion of Waste Roll of Boxes will be conducted

by EPA through Saturday and ERRS Daron

until Thursday 7/29 (anticipated). STARV

to demobilize and then remobilize 7/29

to take final site photos and conduct

final walk. — T.L.

1215 START Low demobilizes to Portland

End of day

WHAT to write with? for BEST results



USE WET OR DRY

- ALL PENCILS
- RITE IN THE RAIN PENS
- WAX MARKERS
- CRAYONS
- OIL PASTELS
- PAINT

WHEN DRY ONLY

- PERMANENT MARKERS
- STANDARD BALL POINT

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Logbook 3 of 3

INCH



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Project Onelaska Wood Analysis

TCRA T.L.

T.L.



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Handwritten signature or initials

T-1 Onalaska TCRA. T-2 7/29/21

10220 START Low mobilizes for Berthold LL.

10259 START Low mobilizes for Onalaska, WI

10330 START Low arrives onsite, meets with

ERRS Davon, Oversees last of site equipment

demobilization. On ~~Friday~~ Monday 7/26,

ERRS reported leaking water from roll off

bin containing wood tar solidified wood

waste and secondary containment cleanout

water. ERRS mobilized small excavator to

site to solidify water and place in last

roll off bin (solidified with site wood

chips). START observed area where leak

occurred and confirmed no remaining

waste from spill onsite. T-2

10451 START commences with Final site

walk and photo documentation T-2

1015 Final site walk complete. Photos taken

and no unaddressed waste found site. T-1

1030 START Low notifies OSC of site T-1

walk completion and receives confirmation

to demobilize. See photos of site taken

by START Low on 7/29 for more

details. T-2

START demobilizes from site, all TCRA

activities complete. T-2

End log day, End to T-1

T-2 Onalaska TCRA T-1 7-29-21

Infrastructure/Items/ Equipment, left

on site that existed prior to EPA

removal action activities T-2

T-2

- All Pyrolysis equipment, tools and

empty containers as well as everything

in office and tool shelves/lockers

of Pyrolysis building will be left on

site with Pyrolysis machinery. T-1

- Wood chips under North/South T-2

warehouse as well as the (2) white

rectangle tents on Northside of site will

be left onsite. T-2

- Biochar piles under North/South

warehouse and in all Super Sacks found

on site, are left on site. T-1

- Steel Vat in Dry Kiln building T-2

- Empty Super Sacks T-2

- Confirmed Non-Hazardous tote of T-1

Verm: - grow T-2

- All Outdoor Pyrolysis Machinery T-1

See pictures for more detail (on 7/29)

All notes recorded in ~~site~~ ~~log book~~ ~~diary~~

with START OSC approved TCRA SHRP

and Site H2S plans. All activities

were conducted in accordance with ~~SDPS~~ <sup>Western</sup>

pgs 4-48

Consider remaining  
pages of this  
complete logbook  
pages 4-48  
7-29-2021

Return to Page

Handwritten notes: "End Log book 7-29-2021" and a signature.



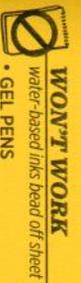
**USE WET OR DRY**  
most pens stop writing when wet

- ALL PENCILS
- RITE IN THE RAIN PENS
- WAX MARKERS
- CRAYONS
- OIL PASTELS / PAINT



**WHEN DRY ONLY**  
what you write won't wash off

- PERMANENT MARKERS
- STANDARD BALLPOINTS



**WON'T WORK**  
water-based inks bead off sheet

- GEL PENS
- MOST HIGHLIGHTERS
- FOUNTAIN PENS
- WATER COLORS
- ACRYLIC PAINT

MADE IN TACOMA  
— SINCE 1916 —  
*Rite in the Rain*  
DEFYING MOTHER NATURE

**Yes, Rite in the Rain**  
is a wood-based & recyclable paper, but unlike plain paper... it won't turn to mush when exposed to:

- resin
  - stains
  - heat
  - sweat
  - oil & grease
  - mud & grime
  - laundry
  - misshap
- ALL-WEATHER TOUGH!**



**BRAND HISTORY**  
The Rite in the Rain story began a century ago in the forests of the Great Pacific Northwest. Entrepreneur Jerry Darling recognized the logging industry's need for a durable material that could be written on and survive in poor weather conditions. Jerry developed a special coating that created a unique moisture shield on the hand-dipped sheets of paper that he and his wife, Mary, processed at their home. From these humble beginnings our first all-weather paper was born. Over the many years we've perfected and patented our environmentally responsible coating process. Still located in Tacoma, our continued mission is to provide innovative products for professionals and enthusiasts who brave the outdoors.

**EQUIPPING MULTIPLE INDUSTRIES WORLD-WIDE**

products available



**—DEFYING—**  
**MOTHER NATURE®**

SINCE 1916



*All components of  
this product are recyclable*

***Rite in the Rain***

A patented, environmentally responsible, all-weather writing paper that sheds water and enables you to write anywhere, in any weather.

Using a pencil or all-weather pen, *Rite in the Rain* ensures that your notes survive the rigors of the field, regardless of the conditions.

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JL DARLING LLC  
Tacoma, WA 98424-1017 USA  
[www.RiteintheRain.com](http://www.RiteintheRain.com)

**Item No. 351FX**  
ISBN: 978-1-60134-186-6

Made in the USA  
US Pat No. 6,863,940



**ATTACHMENT C  
2021 TCRA Waste Sample Data**

Analyte	CAS NO.	Units	RCRA Hazardous Criteria <sup>1</sup>	OWP-WTAR1-07 6/30/2021	OWP-WTAR2-07 6/30/2021
<b>Volatile Organic Compound (EPA Method SW8260D)</b>					
Benzene	71-43-2	mg/L	0.5	0.202 U	0.148 U
<b>Semivolatile Organic Compound (EPA Method SW8270E)</b>					
1,4-Dichlorobenzene	106-46-7	mg/L	7.5	0.00554 U	0.00512 U
2,4,5-Trichlorophenol	95-95-4	mg/L	400	0.0831 U	0.0768 U
2,4,6-Trichlorophenol	88-06-2	mg/L	2	0.0831 U	0.0768 U
2,4-Dinitrotoluene	121-14-2	mg/L	0.13	0.0554 U	0.0512 U
3-Methylphenol and 4-Methylphenol coelution	34-Cresol	mg/L	200	71 U	53.9 U
Hexachlorobenzene	118-74-1	mg/L	0.13	0.00831 U	0.00768 U
Hexachlorobutadiene	87-68-3	mg/L	0.5	0.0415 U	0.0384 U
Hexachloroethane	67-72-1	mg/L	3	0.00415 U	0.00384 U
Nitrobenzene	98-95-3	mg/L	2	0.0138 U	0.0128 U
o-Cresol	95-48-7	mg/L	200	30.7 U	23.4 U
Pentachlorophenol	87-86-5	mg/L	100	0.0277 U	0.0256 U
Pyridine	110-86-1	mg/L	5	0.0554 U	0.0512U

Notes:

<sup>1</sup> RCRA Regulations for the Identification and Listing of Hazardous Waste, 40 Code of Federal Regulations 261

Abbreviations:

CAS = Chemical Abstracts Service

mg/L = milligrams per liter

RCRA = Resource Conservation and Recovery Act

TCRA = Time-Critical Removal Action

U = Analyte included in the analysis, but not detected

**ATTACHMENT D**  
**LABORATORY DATA PACKAGES**



**Weston Solutions**

Jeff Wright

1011 SW Klickitat Way #212

Seattle, WA 98134

**RE: Onalaska Wood Pyrolysis**

**Work Order Number: 2107001**

July 07, 2021

**Attention Jeff Wright:**

Fremont Analytical, Inc. received 2 sample(s) on 7/1/2021 for the analyses presented in the following report.

***Volatile Organic Compounds by SW8260D/TCLP ZHE***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes  
Project Manager



Date: 07/07/2021

---

**CLIENT:** Weston Solutions  
**Project:** Onalaska Wood Pyrolysis  
**Work Order:** 2107001

---

## Work Order Sample Summary

---

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2107001-001	OWP-WTAR1-07	06/30/2021 4:41 PM	07/01/2021 8:43 AM
2107001-002	OWP-WTAR2-07	06/30/2021 4:41 PM	07/01/2021 8:43 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

---

Original

---

**CLIENT:** Weston Solutions  
**Project:** Onalaska Wood Pyrolysis

---

**I. SAMPLE RECEIPT:**

Samples receipt information is recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

**III. ANALYSES AND EXCEPTIONS:**

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

### Qualifiers:

- \* - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

### Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



**Client:** Weston Solutions

**Collection Date:** 6/30/2021 4:41:00 PM

**Project:** Onalaska Wood Pyrolysis

**Lab ID:** 2107001-001

**Matrix:** Solid

**Client Sample ID:** OWP-WTAR1-07

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

**Volatile Organic Compounds by SW8260D/TCLP ZHE**

Batch ID: 32881

Analyst: KT

Benzene	202	4.40	D	µg/L	10	7/7/2021 11:06:53 AM
Surr: Dibromofluoromethane	110	80 - 120	D	%Rec	10	7/7/2021 11:06:53 AM
Surr: Toluene-d8	99.6	80 - 120	D	%Rec	10	7/7/2021 11:06:53 AM
Surr: 1-Bromo-4-fluorobenzene	120	80 - 120	D	%Rec	10	7/7/2021 11:06:53 AM



**Client:** Weston Solutions

**Collection Date:** 6/30/2021 4:41:00 PM

**Project:** Onalaska Wood Pyrolysis

**Lab ID:** 2107001-002

**Matrix:** Solid

**Client Sample ID:** OWP-WTAR2-07

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by SW8260D/TCLP ZHE**

Batch ID: 32881

Analyst: KT

Benzene	148	4.40	D	µg/L	10	7/7/2021 11:37:02 AM
Surr: Dibromofluoromethane	110	80 - 120	D	%Rec	10	7/7/2021 11:37:02 AM
Surr: Toluene-d8	101	80 - 120	D	%Rec	10	7/7/2021 11:37:02 AM
Surr: 1-Bromo-4-fluorobenzene	122	80 - 120	DS	%Rec	10	7/7/2021 11:37:02 AM

**NOTES:**

S - Outlying surrogate recovery(ies) observed due to suspected matrix interference.

Work Order: 2107001  
 CLIENT: Weston Solutions  
 Project: Onalaska Wood Pyrolysis

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by SW8260D/TCLP ZHE**

Sample ID: <b>LCS-32881</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>7/6/2021</b>	RunNo: <b>68395</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>32881</b>		Analysis Date: <b>7/6/2021</b>	SeqNo: <b>1381927</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	19.0	0.440	20.00	0	95.2	80	120				
Surr: Dibromofluoromethane	24.0		25.00		96.0	81.1	118				
Surr: Toluene-d8	24.4		25.00		97.8	85.7	113				
Surr: 1-Bromo-4-fluorobenzene	27.0		25.00		108	84.2	111				

Sample ID: <b>MB-32881</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>7/6/2021</b>	RunNo: <b>68395</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>32881</b>		Analysis Date: <b>7/6/2021</b>	SeqNo: <b>1381925</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	0.440									
Surr: Dibromofluoromethane	23.3		25.00		93.3	80	120				
Surr: Toluene-d8	23.7		25.00		95.0	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.3		25.00		97.2	80	120				

Sample ID: <b>2107020-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>7/6/2021</b>	RunNo: <b>68395</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>32881</b>		Analysis Date: <b>7/6/2021</b>	SeqNo: <b>1381922</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	0.440						0		30	
Surr: Dibromofluoromethane	23.9		25.00		95.7	80	120		0		
Surr: Toluene-d8	24.2		25.00		96.7	80	120		0		
Surr: 1-Bromo-4-fluorobenzene	23.7		25.00		94.6	80	120		0		

Sample ID: <b>2106516-004ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>7/6/2021</b>	RunNo: <b>68395</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>32881</b>		Analysis Date: <b>7/6/2021</b>	SeqNo: <b>1381916</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	0.440						0		30	
Surr: Dibromofluoromethane	24.6		25.00		98.5	80	120		0		

Work Order: 2107001  
 CLIENT: Weston Solutions  
 Project: Onalaska Wood Pyrolysis

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by SW8260D/TCLP ZHE**

Sample ID: <b>2106516-004ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>7/6/2021</b>	RunNo: <b>68395</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>32881</b>		Analysis Date: <b>7/6/2021</b>	SeqNo: <b>1381916</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: Toluene-d8	24.5		25.00		97.9	80	120		0		
Surr: 1-Bromo-4-fluorobenzene	23.6		25.00		94.3	80	120		0		

Sample ID: <b>2106516-009AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>7/6/2021</b>	RunNo: <b>68395</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>32881</b>		Analysis Date: <b>7/7/2021</b>	SeqNo: <b>1381918</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	21.3	0.440	20.00	0	106	79	131				
Surr: Dibromofluoromethane	24.7		25.00		98.7	80	121				
Surr: Toluene-d8	25.4		25.00		102	80	120				
Surr: 1-Bromo-4-fluorobenzene	27.0		25.00		108	80	120				

Sample ID: <b>MB-32897</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>7/6/2021</b>	RunNo: <b>68395</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>32881</b>		Analysis Date: <b>7/7/2021</b>	SeqNo: <b>1381926</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	4.40									D
Surr: Dibromofluoromethane	252		250.0		101	80	120				D
Surr: Toluene-d8	255		250.0		102	80	120				D
Surr: 1-Bromo-4-fluorobenzene	239		250.0		95.8	80	120				D

Client Name: <b>WESTO</b>	Work Order Number: <b>2107001</b>
Logged by: <b>Gabrielle Coeulle</b>	Date Received: <b>7/1/2021 8:43:00 AM</b>

### Chain of Custody

1. Is Chain of Custody complete?      Yes       No       Not Present
2. How was the sample delivered?      Client

### Log In

3. Coolers are present?      Yes       No       NA
4. Shipping container/cooler in good condition?      Yes       No
5. Custody Seals present on shipping container/cooler?  
(Refer to comments for Custody Seals not intact)      Yes       No       Not Present
6. Was an attempt made to cool the samples?      Yes       No       NA
7. Were all items received at a temperature of >2°C to 6°C \*      Yes       No       NA
- Approved by client.**
8. Sample(s) in proper container(s)?      Yes       No
9. Sufficient sample volume for indicated test(s)?      Yes       No
10. Are samples properly preserved?      Yes       No
11. Was preservative added to bottles?      Yes       No       NA
12. Is there headspace in the VOA vials?      Yes       No       NA
13. Did all samples containers arrive in good condition(unbroken)?      Yes       No
14. Does paperwork match bottle labels?      Yes       No
15. Are matrices correctly identified on Chain of Custody?      Yes       No
16. Is it clear what analyses were requested?      Yes       No
17. Were all holding times able to be met?      Yes       No

### Special Handling (if applicable)

18. Was client notified of all discrepancies with this order?      Yes       No       NA

Person Notified:	<input type="text" value="Jeff Wright"/>	Date:	<input type="text" value="7/1/2021"/>
By Whom:	<input type="text" value="Gabrielle Coeulle"/>	Via:	<input checked="" type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text" value="Ok to proceed out of temp?"/>		
Client Instructions:	<input type="text" value="Proceed."/>		

19. Additional remarks:

### Item Information

Item #	Temp °C
Sample 1	13.1

\* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C







**Weston Solutions**

Jeff Wright  
1011 SW Klickitat Way #212  
Seattle, WA 98134

**RE: Onalaska Wood Pyrolysis**  
**Work Order Number: 2107001**

July 20, 2021

**Attention Jeff Wright:**

Fremont Analytical, Inc. received 2 sample(s) on 7/1/2021 for the analyses presented in the following report.

***SVOC (SW8270) with TCLP Extraction (EPA 1311)***  
***Volatile Organic Compounds by SW8260D/TCLP ZHE***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes  
Project Manager

**CC:**  
Taylor Law



Date: 07/20/2021

---

**CLIENT:** Weston Solutions  
**Project:** Onalaska Wood Pyrolysis  
**Work Order:** 2107001

---

## Work Order Sample Summary

---

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2107001-001	OWP-WTAR1-07	06/30/2021 4:41 PM	07/01/2021 8:43 AM
2107001-002	OWP-WTAR2-07	06/30/2021 4:41 PM	07/01/2021 8:43 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

**CLIENT:** Weston Solutions  
**Project:** Onalaska Wood Pyrolysis

---

**I. SAMPLE RECEIPT:**

Samples receipt information is recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

**III. ANALYSES AND EXCEPTIONS:**

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Rev 1 includes the analysis of TCLP SVOCs.

### Qualifiers:

- \* - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

### Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



**Client:** Weston Solutions

**Collection Date:** 6/30/2021 4:41:00 PM

**Project:** Onalaska Wood Pyrolysis

**Lab ID:** 2107001-001

**Matrix:** Solid

**Client Sample ID:** OWP-WTAR1-07

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

**SVOC (SW8270) with TCLP Extraction (EPA 1311)**

Batch ID: 33031

Analyst: IH

Pyridine	ND	55.4	D	µg/L	10	7/19/2021 7:59:24 PM
1,4-Dichlorobenzene	ND	5.54	D	µg/L	10	7/19/2021 7:59:24 PM
2-Methylphenol (o-cresol)	30,700	554	DE	µg/L	1000	7/20/2021 3:04:44 PM
Hexachloroethane	ND	4.15	D	µg/L	10	7/19/2021 7:59:24 PM
3&4-Methylphenol (m, p-cresol)	71,000	1,110	DE	µg/L	1000	7/20/2021 3:04:44 PM
Nitrobenzene	ND	13.8	DQ	µg/L	10	7/19/2021 7:59:24 PM
Hexachlorobutadiene	ND	41.5	D	µg/L	100	7/20/2021 11:05:02 AM
2,4,6-Trichlorophenol	ND	83.1	D	µg/L	100	7/20/2021 11:05:02 AM
2,4,5-Trichlorophenol	ND	83.1	D	µg/L	100	7/20/2021 11:05:02 AM
2,4-Dinitrotoluene	ND	55.4	DQ	µg/L	100	7/20/2021 11:05:02 AM
Hexachlorobenzene	ND	8.31	D	µg/L	10	7/19/2021 7:59:24 PM
Pentachlorophenol	ND	27.7	D	µg/L	10	7/19/2021 7:59:24 PM
Surr: 2,4,6-Tribromophenol	30.3	35.1 - 157	DS	%Rec	10	7/19/2021 7:59:24 PM
Surr: 2-Fluorobiphenyl	1.62	43.3 - 135	DS	%Rec	100	7/20/2021 11:05:02 AM
Surr: Nitrobenzene-d5	55.7	39.7 - 138	D	%Rec	1000	7/20/2021 3:04:44 PM
Surr: Phenol-d6	33.0	5 - 61.6	D	%Rec	100	7/20/2021 11:05:02 AM
Surr: p-Terphenyl	24.7	35.5 - 158	DS	%Rec	10	7/19/2021 7:59:24 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

S - Outlying surrogate recovery(ies) observed due to suspected matrix interference.

**Volatile Organic Compounds by SW8260D/TCLP ZHE**

Batch ID: 32881

Analyst: KT

Benzene	202	4.40	D	µg/L	10	7/7/2021 11:06:53 AM
Surr: Dibromofluoromethane	110	80 - 120	D	%Rec	10	7/7/2021 11:06:53 AM
Surr: Toluene-d8	99.6	80 - 120	D	%Rec	10	7/7/2021 11:06:53 AM
Surr: 1-Bromo-4-fluorobenzene	120	80 - 120	D	%Rec	10	7/7/2021 11:06:53 AM



**Client:** Weston Solutions

**Collection Date:** 6/30/2021 4:41:00 PM

**Project:** Onalaska Wood Pyrolysis

**Lab ID:** 2107001-002

**Matrix:** Solid

**Client Sample ID:** OWP-WTAR2-07

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**SVOC (SW8270) with TCLP Extraction (EPA 1311)**

Batch ID: 33031

Analyst: IH

Pyridine	ND	51.2	D	µg/L	10	7/19/2021 8:21:25 PM
1,4-Dichlorobenzene	ND	5.12	D	µg/L	10	7/19/2021 8:21:25 PM
2-Methylphenol (o-cresol)	23,400	512	DE	µg/L	1000	7/20/2021 3:26:37 PM
Hexachloroethane	ND	3.84	D	µg/L	10	7/19/2021 8:21:25 PM
3&4-Methylphenol (m, p-cresol)	53,900	1,020	DE	µg/L	1000	7/20/2021 3:26:37 PM
Nitrobenzene	ND	12.8	D	µg/L	10	7/19/2021 8:21:25 PM
Hexachlorobutadiene	ND	38.4	D	µg/L	100	7/20/2021 11:26:55 AM
2,4,6-Trichlorophenol	ND	76.8	D	µg/L	100	7/20/2021 11:26:55 AM
2,4,5-Trichlorophenol	ND	76.8	D	µg/L	100	7/20/2021 11:26:55 AM
2,4-Dinitrotoluene	ND	51.2	DQ	µg/L	100	7/20/2021 11:26:55 AM
Hexachlorobenzene	ND	7.68	D	µg/L	10	7/19/2021 8:21:25 PM
Pentachlorophenol	ND	25.6	D	µg/L	10	7/19/2021 8:21:25 PM
Surr: 2,4,6-Tribromophenol	25.5	35.1 - 157	DS	%Rec	10	7/19/2021 8:21:25 PM
Surr: 2-Fluorobiphenyl	1.24	43.3 - 135	DS	%Rec	100	7/20/2021 11:26:55 AM
Surr: Nitrobenzene-d5	44.4	39.7 - 138	D	%Rec	1000	7/20/2021 3:26:37 PM
Surr: Phenol-d6	37.1	5 - 61.6	D	%Rec	100	7/20/2021 11:26:55 AM
Surr: p-Terphenyl	22.2	35.5 - 158	DS	%Rec	10	7/19/2021 8:21:25 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

S - Outlying surrogate recovery(ies) observed due to suspected matrix interference.

**Volatile Organic Compounds by SW8260D/TCLP ZHE**

Batch ID: 32881

Analyst: KT

Benzene	148	4.40	D	µg/L	10	7/7/2021 11:37:02 AM
Surr: Dibromofluoromethane	110	80 - 120	D	%Rec	10	7/7/2021 11:37:02 AM
Surr: Toluene-d8	101	80 - 120	D	%Rec	10	7/7/2021 11:37:02 AM
Surr: 1-Bromo-4-fluorobenzene	122	80 - 120	DS	%Rec	10	7/7/2021 11:37:02 AM

**NOTES:**

S - Outlying surrogate recovery(ies) observed due to suspected matrix interference.

Work Order: 2107001  
 CLIENT: Weston Solutions  
 Project: Onalaska Wood Pyrolysis

**QC SUMMARY REPORT**  
**SVOC (SW8270) with TCLP Extraction (EPA 1311)**

Sample ID: <b>MB-33031</b>	SampType: <b>MBLK</b>	Units:	Prep Date: <b>7/16/2021</b>	RunNo: <b>68686</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>33031</b>		Analysis Date: <b>7/19/2021</b>	SeqNo: <b>1388727</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Pyridine	ND	1.97									
1,4-Dichlorobenzene	ND	0.197									
2-Methylphenol (o-cresol)	ND	0.197									
Hexachloroethane	ND	0.148									
3&4-Methylphenol (m, p-cresol)	ND	0.393									
Nitrobenzene	ND	0.492									Q
Hexachlorobutadiene	ND	0.148									
2,4,6-Trichlorophenol	ND	0.295									
2,4,5-Trichlorophenol	ND	0.295									
2,4-Dinitrotoluene	ND	0.197									
Hexachlorobenzene	ND	0.295									
Pentachlorophenol	ND	0.984									
Surr: 2,4,6-Tribromophenol	3.24		3.934		82.3	35.1	157				
Surr: 2-Fluorobiphenyl	2.02		1.967		103	43.3	135				
Surr: Nitrobenzene-d5	1.47		1.967		75.0	39.7	138				
Surr: Phenol-d6	0.910		3.934		23.1	5	61.6				
Surr: p-Terphenyl	1.70		1.967		86.4	35.5	158				

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

Sample ID: <b>LCS-33031</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>7/16/2021</b>	RunNo: <b>68686</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>33031</b>		Analysis Date: <b>7/19/2021</b>	SeqNo: <b>1388728</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Pyridine	0.970	0	3.962	0	24.5	8.47	47.3				
1,4-Dichlorobenzene	2.84	0.198	3.962	0	71.8	28	106				
2-Methylphenol (o-cresol)	2.79	0.198	3.962	0	70.4	11.3	106				
Hexachloroethane	2.04	0.149	3.962	0	51.6	27.3	104				
3&4-Methylphenol (m, p-cresol)	1.92	0.396	3.962	0	48.5	7.95	98.3				
Nitrobenzene	2.29	0.495	3.962	0	57.9	35.6	125				
Hexachlorobutadiene	3.17	0.149	3.962	0	79.9	21.4	110				

Work Order: 2107001  
 CLIENT: Weston Solutions  
 Project: Onalaska Wood Pyrolysis

**QC SUMMARY REPORT**  
**SVOC (SW8270) with TCLP Extraction (EPA 1311)**

Sample ID: LCS-33031	SampType: LCS	Units: µg/L				Prep Date: 7/16/2021	RunNo: 68686				
Client ID: LCSS	Batch ID: 33031					Analysis Date: 7/19/2021	SeqNo: 1388728				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,6-Trichlorophenol	4.21	0.297	3.962	0	106	14.2	125				
2,4,5-Trichlorophenol	4.54	0.297	3.962	0	115	13.8	132				
2,4-Dinitrotoluene	3.69	0.198	3.962	0	93.1	52.9	130				
Hexachlorobenzene	3.66	0.297	3.962	0	92.3	28.9	135				
Pentachlorophenol	3.77	0.990	3.962	0	95.2	-5	140				
Surr: 2,4,6-Tribromophenol	3.36		3.962		84.9	35.1	157				
Surr: 2-Fluorobiphenyl	1.94		1.981		98.1	43.3	135				
Surr: Nitrobenzene-d5	1.18		1.981		59.4	39.7	138				
Surr: Phenol-d6	1.06		3.962		26.8	5	61.6				
Surr: p-Terphenyl	1.67		1.981		84.2	35.5	158				

Sample ID: LCSD-33031	SampType: LCSD	Units: µg/L				Prep Date: 7/16/2021	RunNo: 68686				
Client ID: LCSS02	Batch ID: 33031					Analysis Date: 7/19/2021	SeqNo: 1388729				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pyridine	0.883	1.99	3.975	0	22.2	8.47	47.3	0		0	
1,4-Dichlorobenzene	3.17	0.199	3.975	0	79.6	28	106	2.843	10.7	30	
2-Methylphenol (o-cresol)	3.31	0.199	3.975	0	83.3	11.3	106	2.789	17.2	30	
Hexachloroethane	3.72	0.149	3.975	0	93.5	27.3	104	2.044	58.0	30	R
3&4-Methylphenol (m, p-cresol)	3.18	0.397	3.975	0	80.0	7.95	98.3	1.922	49.3	30	R
Nitrobenzene	3.59	0.497	3.975	0	90.4	35.6	125	2.293	44.2	30	R
Hexachlorobutadiene	3.12	0.149	3.975	0	78.6	21.4	110	3.166	1.32	30	
2,4,6-Trichlorophenol	3.40	0.298	3.975	0	85.5	14.2	125	4.214	21.5	30	
2,4,5-Trichlorophenol	3.62	0.298	3.975	0	91.0	13.8	132	4.537	22.6	30	
2,4-Dinitrotoluene	3.60	0.199	3.975	0	90.5	52.9	130	3.690	2.54	30	
Hexachlorobenzene	3.44	0.298	3.975	0	86.5	28.9	135	3.657	6.19	30	
Pentachlorophenol	3.67	0.994	3.975	0	92.4	-5	140	3.773	2.74	30	
Surr: 2,4,6-Tribromophenol	3.27		3.975		82.3	35.1	157		0		
Surr: 2-Fluorobiphenyl	1.82		1.987		91.8	43.3	135		0		
Surr: Nitrobenzene-d5	1.84		1.987		92.7	39.7	138		0		

**Work Order:** 2107001  
**CLIENT:** Weston Solutions  
**Project:** Onalaska Wood Pyrolysis

**QC SUMMARY REPORT**  
**SVOC (SW8270) with TCLP Extraction (EPA 1311)**

Sample ID: <b>LCSD-33031</b>	SampType: <b>LCSD</b>	Units: <b>µg/L</b>	Prep Date: <b>7/16/2021</b>	RunNo: <b>68686</b>							
Client ID: <b>LCSS02</b>	Batch ID: <b>33031</b>		Analysis Date: <b>7/19/2021</b>	SeqNo: <b>1388729</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: Phenol-d6	1.48		3.975		37.3	5	61.6		0		
Surr: p-Terphenyl	1.66		1.987		83.6	35.5	158		0		

**NOTES:**

R - High RPD observed, spike recovery is within range.

Sample ID: <b>MB-33001</b>	SampType: <b>MBLK</b>	Units:	Prep Date: <b>7/16/2021</b>	RunNo: <b>68686</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>33031</b>		Analysis Date: <b>7/19/2021</b>	SeqNo: <b>1388730</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Pyridine	ND	5.21									
1,4-Dichlorobenzene	ND	0.521									
2-Methylphenol (o-cresol)	0.761	0.521									
Hexachloroethane	ND	0.391									
3&4-Methylphenol (m, p-cresol)	1.17	1.04									
Nitrobenzene	ND	1.30									Q
Hexachlorobutadiene	ND	0.391									
2,4,6-Trichlorophenol	ND	0.782									
2,4,5-Trichlorophenol	ND	0.782									
2,4-Dinitrotoluene	ND	0.521									
Hexachlorobenzene	ND	0.782									
Pentachlorophenol	ND	2.61									
Surr: 2,4,6-Tribromophenol	9.88		10.43		94.7	35.1	157				
Surr: 2-Fluorobiphenyl	3.84		5.213		73.7	43.3	135				
Surr: Nitrobenzene-d5	3.31		5.213		63.5	39.7	138				
Surr: Phenol-d6	5.28		10.43		50.7	5	61.6				
Surr: p-Terphenyl	4.48		5.213		86.0	35.5	158				

**Work Order:** 2107001  
**CLIENT:** Weston Solutions  
**Project:** Onalaska Wood Pyrolysis

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by SW8260D/TCLP ZHE**

Sample ID: <b>LCS-32881</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>			Prep Date: <b>7/6/2021</b>	RunNo: <b>68395</b>					
Client ID: <b>LCSW</b>	Batch ID: <b>32881</b>				Analysis Date: <b>7/6/2021</b>	SeqNo: <b>1381927</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.0	0.440	20.00	0	95.2	80	120				
Surr: Dibromofluoromethane	24.0		25.00		96.0	81.1	118				
Surr: Toluene-d8	24.4		25.00		97.8	85.7	113				
Surr: 1-Bromo-4-fluorobenzene	27.0		25.00		108	84.2	111				

Sample ID: <b>MB-32881</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>			Prep Date: <b>7/6/2021</b>	RunNo: <b>68395</b>					
Client ID: <b>MBLKW</b>	Batch ID: <b>32881</b>				Analysis Date: <b>7/6/2021</b>	SeqNo: <b>1381925</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.440									
Surr: Dibromofluoromethane	23.3		25.00		93.3	80	120				
Surr: Toluene-d8	23.7		25.00		95.0	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.3		25.00		97.2	80	120				

Sample ID: <b>2107020-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>			Prep Date: <b>7/6/2021</b>	RunNo: <b>68395</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>32881</b>				Analysis Date: <b>7/6/2021</b>	SeqNo: <b>1381922</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.440						0		30	
Surr: Dibromofluoromethane	23.9		25.00		95.7	80	120		0		
Surr: Toluene-d8	24.2		25.00		96.7	80	120		0		
Surr: 1-Bromo-4-fluorobenzene	23.7		25.00		94.6	80	120		0		

Sample ID: <b>2106516-004ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>			Prep Date: <b>7/6/2021</b>	RunNo: <b>68395</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>32881</b>				Analysis Date: <b>7/6/2021</b>	SeqNo: <b>1381916</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.440						0		30	
Surr: Dibromofluoromethane	24.6		25.00		98.5	80	120		0		

Work Order: 2107001  
 CLIENT: Weston Solutions  
 Project: Onalaska Wood Pyrolysis

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by SW8260D/TCLP ZHE**

Sample ID: <b>2106516-004ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>7/6/2021</b>	RunNo: <b>68395</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>32881</b>		Analysis Date: <b>7/6/2021</b>	SeqNo: <b>1381916</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: Toluene-d8	24.5		25.00		97.9	80	120		0		
Surr: 1-Bromo-4-fluorobenzene	23.6		25.00		94.3	80	120		0		

Sample ID: <b>2106516-009AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>7/6/2021</b>	RunNo: <b>68395</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>32881</b>		Analysis Date: <b>7/7/2021</b>	SeqNo: <b>1381918</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	21.3	0.440	20.00	0	106	79	131				
Surr: Dibromofluoromethane	24.7		25.00		98.7	80	121				
Surr: Toluene-d8	25.4		25.00		102	80	120				
Surr: 1-Bromo-4-fluorobenzene	27.0		25.00		108	80	120				

Sample ID: <b>MB-32897</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>7/6/2021</b>	RunNo: <b>68395</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>32881</b>		Analysis Date: <b>7/7/2021</b>	SeqNo: <b>1381926</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	4.40									D
Surr: Dibromofluoromethane	252		250.0		101	80	120				D
Surr: Toluene-d8	255		250.0		102	80	120				D
Surr: 1-Bromo-4-fluorobenzene	239		250.0		95.8	80	120				D

Client Name: <b>WESTO</b>	Work Order Number: <b>2107001</b>
Logged by: <b>Gabrielle Coeulle</b>	Date Received: <b>7/1/2021 8:43:00 AM</b>

### Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? Client

### Log In

3. Coolers are present? Yes  No  NA
4. Shipping container/cooler in good condition? Yes  No
5. Custody Seals present on shipping container/cooler?  
(Refer to comments for Custody Seals not intact) Yes  No  Not Present
6. Was an attempt made to cool the samples? Yes  No  NA
7. Were all items received at a temperature of >2°C to 6°C \* Yes  No  NA
- Approved by client.**
8. Sample(s) in proper container(s)? Yes  No
9. Sufficient sample volume for indicated test(s)? Yes  No
10. Are samples properly preserved? Yes  No
11. Was preservative added to bottles? Yes  No  NA
12. Is there headspace in the VOA vials? Yes  No  NA
13. Did all samples containers arrive in good condition(unbroken)? Yes  No
14. Does paperwork match bottle labels? Yes  No
15. Are matrices correctly identified on Chain of Custody? Yes  No
16. Is it clear what analyses were requested? Yes  No
17. Were all holding times able to be met? Yes  No

### Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	<input type="text" value="Jeff Wright"/>	Date:	<input type="text" value="7/1/2021"/>
By Whom:	<input type="text" value="Gabrielle Coeulle"/>	Via:	<input checked="" type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text" value="Ok to proceed out of temp?"/>		
Client Instructions:	<input type="text" value="Proceed."/>		

19. Additional remarks:

### Item Information

Item #	Temp °C
Sample 1	13.1

\* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C







**ATTACHMENT E**

**DATA QUALITY ASSURANCE REVIEW MEMORANDA**

## TCLP SVOC FRACTION EVALUATION

### 1. Analytical Method:

Samples were prepared and analyzed for SVOCs using the procedures specified in **SW-846 Method 8270**. TCLP samples were extracted prior to analysis using the procedures specified in **SW-846 Method 1311**.

### 2. Holding Time:

All samples were extracted within the required holding time of less than 7 days for waters and less than 14 days for solids/wastes after collection. Analysis of the samples was conducted within 40 days of extraction. Samples were received above the  $4^{\circ}\text{C}\pm 2^{\circ}\text{C}$  QC limit at  $13.1^{\circ}\text{C}$ . The detected and non-detected SVOC results in both samples were estimated, JL/UJL due to sample receipt temperature non-compliance. The 3&4-methylphenol (m,p-cresol) result was ultimately qualified "JK" due to high LCS/LCSD RPD as noted below.

### 3. Tuning/Performance:

Level 4 data validation is not being performed on this data set at this time. In the event that level 4 validation is performed, this validation report will be revised to include the level 4 findings. However, no outages were noted in the case narrative. No qualifications are placed on the data.

### 4. Initial Calibration:

Level 4 data validation is not being performed on this data set at this time. In the event that level 4 validation is performed, this validation report will be revised to include the level 4 findings. However, no outages were noted in the case narrative. No qualifications are placed on the data.

### 5. Continuing Calibration:

Level 4 data validation is not being performed on this data set at this time. In the event that level 4 validation is performed, this validation report will be revised to include the level 4 findings. However, no outages were noted in the case narrative. No qualifications are placed on the data.

### 6. Blanks:

#### A. Laboratory Blanks:

A method blank was prepared at the required frequency of every time samples were extracted for each matrix and concentration or every 20 samples whichever is greater. Target compounds were not detected in the blanks analyzed at concentrations that warrant blank action. No qualifications are placed on the data.

#### B. Field Blanks:

No field blank samples were submitted with this analytical package. No qualifications are placed on the data.

7. System Monitoring Compounds (SMC):

All recoveries of the system monitoring compounds (surrogates) were within the control limits provided or were diluted out. No qualifications are placed on the data.

8. Matrix Spike/Matrix Spike Duplicate (MS/MSD):

No sample from this analytical package underwent MS/MSD analysis for the TCLP matrix. No qualifications are placed on the data.

9. Duplicates:

A. Laboratory Duplicate Analysis:

No sample from this analytical package underwent laboratory duplicate analysis for the TCLP matrix. No qualifications are placed on the data.

B. Field Duplicate Analysis:

The following sample pair was submitted as field duplicates for the TCLP matrix: OWP-WTAR1-07/OWP-WTAR2-07. QC criteria are that the RPD values for the field duplicate sample analysis be less than 30% for aqueous samples and less than 50% for solid samples for concentrations greater than five times the reporting limit (RL). For sample concentrations less than five times the RL, the QC criteria are that the absolute difference between the samples is less than two times the RL for aqueous samples or less than 3.5 times the RL for the solid matrix. All QC criteria were met. No qualifications are placed on the data.

10. Internal Standards:

Level 4 data validation is not being performed on this data set at this time. In the event that level 4 validation is performed, this validation report will be revised to include the level 4 findings. However, no outages were noted in the case narrative. No qualifications are placed on the data.

11. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD):

The laboratory analyzed LCS/LCSD and percent recoveries and RPDs for these analyses were within the control limits provided with the following exceptions:

ANALYTE	RPD	CONTROL LIMIT	ASSOCIATED SAMPLES	QUALIFIER FLAG
Hexachloroethane	58.0	≤30	All	None, samples ND JK
3&4-Methylphenol (m,p-cresol)	49.3			
Nitrobenzene	44.4			

12. Target Compound Identification:

Level 4 data validation is not being performed on this data set at this time. In the event that level 4 validation is performed, this validation report will be revised to include the level 4 findings. However, no outages were noted in the case narrative. No qualifications are placed on the data.

13. Target Compound Quantitation and Reporting Limits:

Level 4 data validation is not being performed on this data set at this time. In the event that level 4 validation is performed, this validation report will be revised to include the level 4 findings. However, no outages were noted in the case narrative. No qualifications are placed on the data.

All analytes in both samples was analyzed at a 10, 100, or 1000-fold dilution. RLs in these samples are elevated as a result of the dilutions performed.

14. Laboratory Contact:

The case narrative was reviewed for analytical or quality control outages that would necessitate a request for additional data. No laboratory contact was required.

15. Overall Assessment:

Detected and non-detected results in both samples were estimated due to sample receipt temperature non-compliance.

The 3&4-methyphenol (m,p-cresol) result was estimated in both samples due to high LCS/LCSD RPD,

The analytical data is acceptable for use with the qualifications listed above.



Client: Weston Solutions

Collection Date: 6/30/2021 4:41:00 PM

Project: Onalaska Wood Pyrolysis

Lab ID: 2107001-001

Matrix: Solid

Client Sample ID: OWP-WTAR1-07

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>SVOC (SW8270) with TCLP Extraction (EPA 1311)</b>						
					Batch ID: 33031	Analyst: IH
Pyridine	ND <del>UJL</del>	55.4	D	µg/L	10	7/19/2021 7:59:24 PM
1,4-Dichlorobenzene	ND ↓	5.54	D	µg/L	10	7/19/2021 7:59:24 PM
2-Methylphenol (o-cresol)	30,700 JL	554	DE	µg/L	1000	7/20/2021 3:04:44 PM
Hexachloroethane	ND <del>UJL</del>	4.15	D	µg/L	10	7/19/2021 7:59:24 PM
3&4-Methylphenol (m, p-cresol)	71,000 JK	1,110	DE	µg/L	1000	7/20/2021 3:04:44 PM
Nitrobenzene	ND <del>UJL</del>	13.8	DQ	µg/L	10	7/19/2021 7:59:24 PM
Hexachlorobutadiene	ND ↓	41.5	D	µg/L	100	7/20/2021 11:05:02 AM
2,4,6-Trichlorophenol	ND ↓	83.1	D	µg/L	100	7/20/2021 11:05:02 AM
2,4,5-Trichlorophenol	ND ↓	83.1	D	µg/L	100	7/20/2021 11:05:02 AM
2,4-Dinitrotoluene	ND ↓	55.4	DQ	µg/L	100	7/20/2021 11:05:02 AM
Hexachlorobenzene	ND ↓	8.31	D	µg/L	10	7/19/2021 7:59:24 PM
Pentachlorophenol	ND ↓	27.7	D	µg/L	10	7/19/2021 7:59:24 PM
Surr: 2,4,6-Tribromophenol	30.3	35.1 - 157	DS	%Rec	10	7/19/2021 7:59:24 PM
Surr: 2-Fluorobiphenyl	1.62	43.3 - 135	DS	%Rec	100	7/20/2021 11:05:02 AM
Surr: Nitrobenzene-d5	55.7	39.7 - 138	D	%Rec	1000	7/20/2021 3:04:44 PM
Surr: Phenol-d6	33.0	5 - 61.6	D	%Rec	100	7/20/2021 11:05:02 AM
Surr: p-Terphenyl	24.7	35.5 - 158	DS	%Rec	10	7/19/2021 7:59:24 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

S - Outlying surrogate recovery(ies) observed due to suspected matrix interference.

**Volatile Organic Compounds by SW8260D/TCLP ZHE**

Batch ID: 32881

Analyst: KT

Benzene	202 JK	4.40	D	µg/L	10	7/7/2021 11:06:53 AM
Surr: Dibromofluoromethane	110	80 - 120	D	%Rec	10	7/7/2021 11:06:53 AM
Surr: Toluene-d8	99.6	80 - 120	D	%Rec	10	7/7/2021 11:06:53 AM
Surr: 1-Bromo-4-fluorobenzene	120	80 - 120	D	%Rec	10	7/7/2021 11:06:53 AM

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Client: Weston Solutions

Collection Date: 6/30/2021 4:41:00 PM

Project: Onalaska Wood Pyrolysis

Lab ID: 2107001-002

Matrix: Solid

Client Sample ID: OWP-WTAR2-07

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**SVOC (SW8270) with TCLP Extraction (EPA 1311)**

Batch ID: 33031

Analyst: IH

Pyridine	ND UCL	51.2	D	µg/L	10	7/19/2021 8:21:25 PM
1,4-Dichlorobenzene	ND ↓	5.12	D	µg/L	10	7/19/2021 8:21:25 PM
2-Methylphenol (o-cresol)	23,400 JL	512	DE	µg/L	1000	7/20/2021 3:26:37 PM
Hexachloroethane	ND UCL	3.84	D	µg/L	10	7/19/2021 8:21:25 PM
3&4-Methylphenol (m, p-cresol)	53,900 JK	1,020	DE	µg/L	1000	7/20/2021 3:26:37 PM
Nitrobenzene	ND UCL	12.8	D	µg/L	10	7/19/2021 8:21:25 PM
Hexachlorobutadiene	ND ↓	38.4	D	µg/L	100	7/20/2021 11:26:55 AM
2,4,6-Trichlorophenol	ND ↓	76.8	D	µg/L	100	7/20/2021 11:26:55 AM
2,4,5-Trichlorophenol	ND ↓	76.8	D	µg/L	100	7/20/2021 11:26:55 AM
2,4-Dinitrotoluene	ND ↓	51.2	DQ	µg/L	100	7/20/2021 11:26:55 AM
Hexachlorobenzene	ND ↓	7.68	D	µg/L	10	7/19/2021 8:21:25 PM
Pentachlorophenol	ND ↓	25.6	D	µg/L	10	7/19/2021 8:21:25 PM
Surr: 2,4,6-Tribromophenol	25.5	35.1 - 157	DS	%Rec	10	7/19/2021 8:21:25 PM
Surr: 2-Fluorobiphenyl	1.24	43.3 - 135	DS	%Rec	100	7/20/2021 11:26:55 AM
Surr: Nitrobenzene-d5	44.4	39.7 - 138	D	%Rec	1000	7/20/2021 3:26:37 PM
Surr: Phenol-d6	37.1	5 - 61.6	D	%Rec	100	7/20/2021 11:26:55 AM
Surr: p-Terphenyl	22.2	35.5 - 158	DS	%Rec	10	7/19/2021 8:21:25 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

S - Outlying surrogate recovery(ies) observed due to suspected matrix interference.

**Volatile Organic Compounds by SW8260D/TCLP ZHE**

Batch ID: 32881

Analyst: KT

Benzene	148 JK	4.40	D	µg/L	10	7/7/2021 11:37:02 AM
Surr: Dibromofluoromethane	110	80 - 120	D	%Rec	10	7/7/2021 11:37:02 AM
Surr: Toluene-d8	101	80 - 120	D	%Rec	10	7/7/2021 11:37:02 AM
Surr: 1-Bromo-4-fluorobenzene	122	80 - 120	DS	%Rec	10	7/7/2021 11:37:02 AM

**NOTES:**

S - Outlying surrogate recovery(ies) observed due to suspected matrix interference.

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## Data Qualifiers

Data Qualifier Definitions were supplied by the Office of Solid Waste and Emergency Response (September 1989) and are included in the Functional Guidelines. Data qualifiers may be combined (UJ, QJ) with the corresponding combination of meanings. Additional qualifiers may be added to provide additional, more specific information (JL, UB, QJK), modifying the meaning of the primary qualifier. Additional qualifiers utilized by WESTON are H, L, K, B, and Q.

- U - The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation or detection limit, which has been adjusted for sample weight/sample volume, extraction volume, percent solids, sample dilution or other analysis specific parameters.

An additional qualifier, "B", may be appended to indicate that while the analyte was detected in the sample, the presence of the analyte may be attributable to blank contamination and the analyte is therefore considered undetected with the sample detection or quantitation limit for the analyte being elevated.

- J - The analyte was analyzed for, but the associated numerical value may not be consistent with the amount actually present in the environmental sample or may not be consistent with the sample detection or quantitation limit. The value is an estimated quantity. The data should be seriously considered for decision-making and are usable for many purposes.

An additional qualifier will be appended to the "J" qualifier that indicates the bias in the reported results:

L Low bias

H High bias

K Unknown bias

Q The reported concentration is less than the sample quantitation limit for the specific analyte in the sample.

The L and H qualifier will only be employed when a single qualification is required. When more than one quality control parameter affects the analytical result and a conflict results in assigning a bias, the result will be flagged JK.

- R - Quality Control indicates that data are unusable for all purposes. The analyte was analyzed for, but the presence or absence of the analyte has not been verified. Resampling and reanalysis are necessary for verification to confirm or deny the presence of an analyte.
- N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."