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DEPARTMENT OF
ECOLOGY
State of Washington

Application for a State Waste Discharge Permit to Discharge Industrial Wastewater to a Publicly-Owned Treatment Works (POTW)

This application is for a state waste discharge permit for a discharge of industrial wastewater to a publicly-owned treatment works (POTW) as required by Chapter 90.48 RCW and Chapter 173-216 WAC. It is designed to provide Ecology with information on pollutants in the waste stream, materials that may enter the waste stream, and the flow characteristics of the discharge.

Ecology may request additional information to clarify the conditions of this discharge. The applicant should reference information previously submitted to Ecology that applies to this application in the appropriate section.

SECTION A. GENERAL INFORMATION

1. Applicant Name: Hogwam Plywood Products
2. Facility Name: (same)
(if different from Applicant)
3. Applicant Mail Address: 1000 Woodlawn Street
Street
Hogwam, WA 98550
City/State Zip
4. Facility Location Address: (same)
(if different from 3 above) Street
City/State Zip
5. UBI No. 603-185-175
Sometimes called a registration, tax, "C," or resale number, the Unified Business Identifier (UBI) number is a nine-digit number used to identify persons engaging in business activities. The number is assigned when a person completes a Master Business Application to register with or obtain a license from state agencies. The Departments of Revenue, Licensing, Employment Security, Labor and Industries, and the Corporations Division of the Secretary of State are among the state agencies participating in the UBI program.
6. Latitude/longitude of the facility as decimal degrees (NAD83/WGS84):
 /

FOR OFFICE USE ONLY		Check One: <input type="checkbox"/> New/Renewal <input type="checkbox"/> Modification	
Date Application Received	Date Fee Paid	Application/Permit No.	Date Application Accepted

7. Person to contact who is familiar with the information contained in this application:

Name Brian Fuller Title Maintenance Supervisor
Telephone number (360) 581-5029 Fax number (360) 532-6980

8. Check One:

☐ Permit Renewal (including renewal of temporary permits)

Does this application request a greater amount of wastewater discharge, a greater amount of pollutant discharge, or a discharge of different pollutants than specified in the last permit application for this facility? ☐ YES ☐ NO

For permit renewals, the current permit is an attachment, by reference, to this application.

☐ Permit Modification

☒ Existing Unpermitted Discharge

☐ Proposed Discharge

Anticipated date of discharge: _____

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and/or imprisonment for knowing violations.

Brian Fuller
Signature*

1-7-2016
Date
1-7-2016

Maintenance Supervisor
Title
Plant MGR

Brian Fuller
Printed Name

MARK McFeely

*Applications must be signed as follows: corporations, by a principal executive officer of at least the level of vice-president; partnership, by a general partner; sole proprietorship, by the proprietor. If these titles do not apply to your organization, the person who makes budget decisions for this facility must sign the application.

The application signatory may delegate signature authority for submittals required by the permit, such as monthly reports, to a suitable employee. You can delegate this authority to a qualified individual or to a position, which you expect to fill with a qualified individual. If you wish to delegate signature authority, please complete the following:

Signature of delegated employee

Date

Title or function at the facility

Printed name

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Material Flow Chart for Hoquiam Plywood Products

- The green veneer enters the plant by truck and is stored in **Veneer storage** until the drying process begins. Green veneer is taken to either **#2 Dryer** or **#3 Dryer**. **#2 Dryer** runs on 100% natural gas and **#3 Dryer** runs on 85% wood waste and 15% natural gas. The 54 x 101 sheets of veneer are taken to lay up, the random width core is cut into 50 x 50, being used as core in the panel (cross grain).
- Once the veneer has been dried, it is taken to the **Layup**. The first step at **layup** is to apply exterior glue to the cross sections of panel (core). This is done by feeding it through the **spreaders** which are adjacent to **Press 1**.
- The exterior glue is mixed up in the glue loft which is adjacent to the **spreaders** and **press #1**. The modal and wheat flour is transported by forklift from the modal flour storage building. The resin and liquid caustic is pumped directly into measured holding tanks to be dropped into mixer. Mix is then put into exterior glue holding tanks (HT) on exhibit 1.
- After the veneer is glued into panels, they are loaded into the **Hot Press 1** or **Hot Press 2**. Once the panels have been pressed, they are then taken to the **saws**.
- The panels from **Press 1** and / or **Press 2** are taken to the **Saws** to be cut into 48 x 96 panels. All saw trim falls on a conveyor belt and run through a scrap hog. The material is blown into **Clarks Bin** and / or **Shipping Fuel Bin** or **Fuel Bin 2**. All material that is collected in **Clarks Bin** is run through a hammer mill and blown into **GP Burner** which used as a fuel source for **Dryer 3**. All material sent to the **Shipping Fuel Bin** will be dumped into a chip truck and hauled off site. All material that goes into **Fuel Bin 2** will either be moved into **Dust Bin** to be used as fuel for **Dryer 3** or moved into **Shipping Fuel Bin**. At this point, 50% of panels are done and they are banded, tagged, stenciled and moved down into the shipping storage area.
- After sawing panels, the panel are taken to the panel patch area. Small areas are repaired with a water based putty. The panels are taken to the sander so they can be sanded and sorted. The fine sawdust is sucked off the panels as they are sanded. The fine sawdust is transported by blower to the **Dust Bin** which is used as fuel in **Dryer #3**. The panels are then moved to the shipping area or sent to the **Tongue and Groove machine** before shipping. All sawdust on this machine is collected and blown into **Fuel Bin #2**.

10-50



MODAL, FLOUR
STORAGE

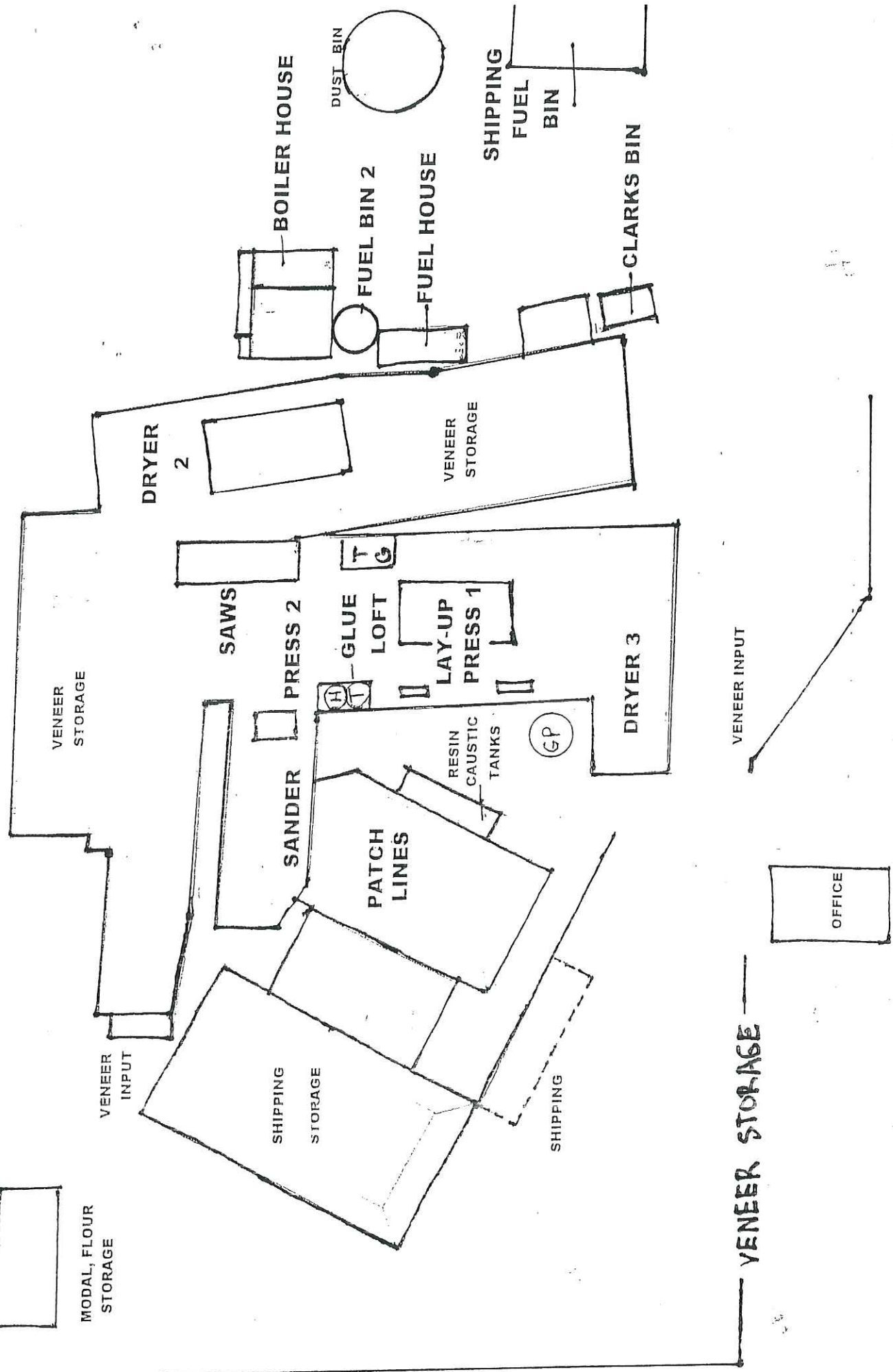


EXHIBIT 1

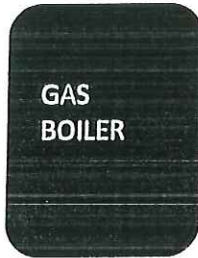
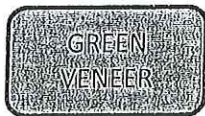
Facility Assessment

- 1) The storage building contains a resin tank and also a caustic tank. Each tank is enclosed by a 4 ft. cement wall, elimination any spill from entering the storm-water system. Resin is delivered twice weekly and a 5 gallon bucket is placed under the connection by the truck drivers. This is a standard procedure. Caustic is brought in 3 times a year with the same procedure followed.
- 2) Fueling station is inspected. We use propane as a fuel for forklifts. Fueling area is covered so little, if any, runoff will occur.
- 3) Flour and modal storage area was clean. Found no problems. All bags were intact, sealed in plastic wrap and should not be a problem under any conditions.
- 4) Truck unloading and loading area was well kept with no problems. This is also a covered area.
- 5) Metering bin on #3 dryer is a covered area. This area could be a problem if housekeeping is not kept up. All fine dust particles are pulled to this area to be burned in the GP burner. If we have any kind of fuel failure, (spark detector, abort, or piug up in fuel lines), fine dust will land on cement and with a good rain could possibly wash down the storm drain. This area will be inspected twice daily by Shift Supervisors and Shift Dryer Tenders to keep area swept and clean. This system works on alarms and we will know immediately when this occurs. This system was designed this way to abort any sparks out of the system before explosion.
- 6) Clark's bin on #3 dryer. Any chips that spill over auger before entering hammer mill will also be kept clean and inspected daily. All materials from #5 and #6 can be disposed of in hog fuel boiler.
- 7) Scrubber for #3 dryer will be checked daily to make sure that we have no leaks in any of the pumps or piping.
- 8) All cyclones will have a daily visual inspection to ensure we have no blow-by.

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SEI-125 LOW FREEZE ALKALINITY BUILDER
SEI-142 MULTI-POLYMER SLUDGE COND
WITH IRON SEQUESTANT
SEI-154 LIQUID DISSOLVED OXYGEN
SCAVENGER
SEI-171 CORROSION INHIBITOR
SEI-1027 BOILER SCALE CONTROL



DIC-231 MOISTURE METER INK



PF 3181GS-CP RESIN
CAUSTIC SODA (50% SOLUTION)
SODA ASH
MODAL (BARK WOOD FLOUR)
WHEAT FLOUR
WATER



EPR-54 END SEAL GREEN



WATER BASE PUTTY FACE 808
E-400-A EPOXY RESIN (THK)
E-400-B EPOXY HRDNR NC (THK)



MSDS SHEETS INCLUDED

March 2, 2016

Veneer Usage
Hoquiam Plywood Products, Inc

Total 3/8 per Thousand "57,969,000"

Dry Veneer used at Hoquiam Plywood for 1-1-2015 thru
12/31/2015.

1. Doug Fir	85 percent of usage	49,273,650
2. Hemlock	10 percent of usage	5,796,900
3. Pine and Spruce	5 percent of usage	2,898,450

Mark McFeely
Plant Manager

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SECTION B. PRODUCT INFORMATION

- Briefly describe all manufacturing processes and products, and/or commercial activities, at this facility. Provide the applicable Standard Industrial Category (SIC) and the North American Industry Classification System (NAICS) Code(s) for each activity (see *North American Industrial Classification System*, 2007 ed.). You can find the 1997 NAICS codes and the corresponding 1987 Standard Industry Category (SIC) codes at (<http://www.census.gov/epcd/naics/frames3.htm>).

Description:

- List raw materials and products used at his facility:

Type	RAW MATERIALS	Quantity
<i>Grapes (Example)</i>		<i>1,000 tons per year</i>
Type	PRODUCTS	Quantity
<i>Grape Juice(Example)</i>		<i>300,000 gallons per year</i>

SECTION C. PLANT OPERATIONAL CHARACTERISTICS

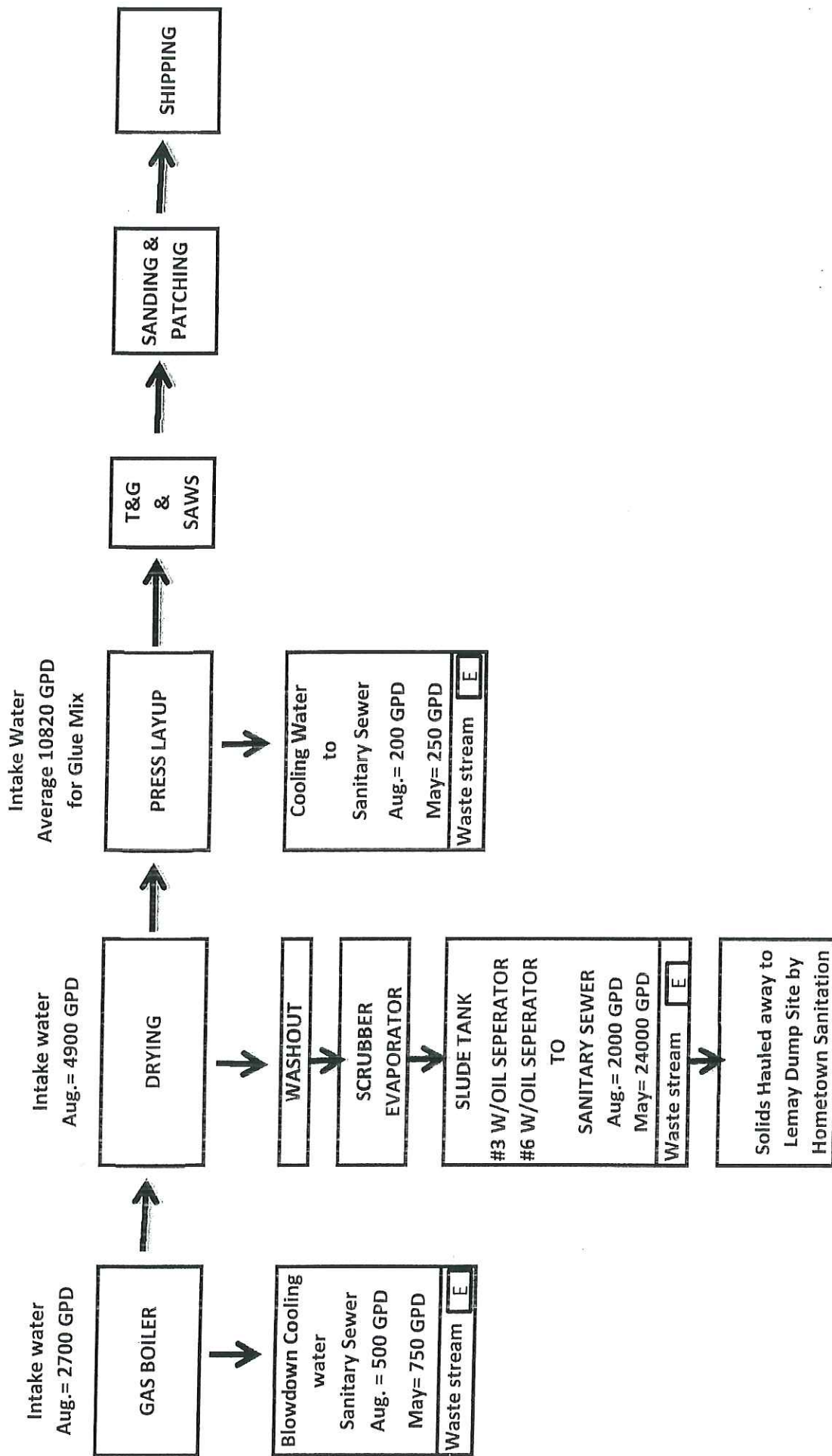
1. For each process listed in B.1. that generates wastewater, list the process, assign the waste stream a name and an ID # and describe whether it is a batch or continuous flow.

Process	Waste Stream Name	Waste Stream ID#	Batch (B) or Continuous (C) Process
Boiler	Sanitary Sewer 1E1	E	C
Drying	" " 1E1	E	C
Press Layup	" " 1E1	E	C

2. On a separate sheet, produce a schematic drawing showing production processes, water flow through the facility, wastewater treatment devices and waste streams as named above. The drawing should indicate the source of intake water and show the operations contributing wastewater to the effluent. The treatment units should be labeled. Construct a water balance by showing average flows between intakes, operations, treatment units, and points of discharge to the POTW. (See the example on page 16 of this application form.)
3. What is the maximum daily wastewater discharge flow? 3,400 gallons/day
- What is the maximum average monthly wastewater discharge flow (daily flows averaged over a month)? 2,700 gallons/day
4. Describe any planned wastewater treatment improvements or changes in wastewater disposal methods, and the schedule for these improvements. (Use additional sheets, if necessary and label as attachment C4.)

- 1.) Item #6 on map is a new water separator that was added on 11-2-2015.

Balance Intake & Outtake



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1. Boiler blowdown water is collected in in holding tank #4 behind the boiler room. When the boiler blowdown water reaches a fill level, tank #4 is then pumped from there into waste Stream (E).
2. Dryer wash-down water is collected into sludge tank #3 and #6 which are also oil/water separator tanks. From Tank #3, water gravity flows into tank #2 for final sediment collection. Water then flows from tank #2 into waste stream (E). From tank #6, water flows straight to waste Stream (E). This system is an over flow system incase drains plug or deluge trips. Wash down water is only generated when dryer #3 is being washed out. This is usually on a weekly basis.
3. *Backup*
Press layup cooling water is from a hydraulic cooling unit that runs the charging system on the press. Water flows through a heat exchanger at 3 gallons per minute. From there flows down a sewer line into waste Stream (E).

This unit is only a backup system in the event our air cooled system fails.

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5. If production processes are subject to seasonal variations, provide the following information. The combined value for each month should equal the estimated total monthly flow. Please indicate the proper flow unit by checking one of the following boxes:

☐ gallons per day

☐ gallons per month

☐ million gallons per month

Waste Stream ID#	MONTHS											
	J	F	M	A	M	J	J	A	S	O	N	D
Estimated Total Monthly Flow (GPD)												

6. How many hours a day does this facility typically operate? 24

How many days a week does this facility typically operate? 5

How many weeks per year does this facility typically operate? 52

7. List all incidental materials, such as oil, paint, grease, solvents, and cleaners, that are used or stored on site (*list only those with quantities greater than 10 gallons for liquids and 50 pounds for solids*). For solvents and solvent-based cleaners, include a copy of the material safety data sheet and estimate the quantity used. (*Use additional sheets, if necessary, and label as attachment C.7.*)

Materials/Quantity Stored:

8. Some types of facilities are required to have spill or waste control plans. Does Yes No
this facility have:

- | | | |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|
| a. A spill prevention, control, and countermeasure plan (40 CFR 112)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b. An Oil Spill Contingency Plan (chapter 173-182 WAC)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c. An emergency response plan (per WAC 173-303-350)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d. A runoff, spillage, or leak control plan (per WAC 173-216-110(f))? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| e. Any spill or pollution prevention plan required by local, state or federal authorities? If yes specify: _____ | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| f. A solid waste control plan? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| g. A Slug Discharge Control Plan (40 CFR 403.8(f)(2)(v))? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

SPILL CLEANUP

313-H-RESIN

SPILL OR LEAK PROCEDURE: Large quantities: Enclose with diking material to prevent seepage into natural bodies of water, then consult Momenive Inc. Emergency telephone number (614) 431-6600. Small quantities: Soak up with absorbent materials and remove to a chemical disposal area.

SODA ASH

Flush with water, neutralize, prevent spread or spill. "Flush" with water and "Neutralize" are applicable to small spills (up to 10 gallons), only

FLOUR

Steps to be taken in case material is released or spilled SWEEP

CAUSTIC SODA LIQUID 50%

Steps to be taken in case materials are released or spilled: Dilute with water and neutralize with dilute acid.

MODAL (EXTENDER)

Sweep or vacume up spills for recovery or disposal Avoid creating dust conditions. Do not use compressed air. Place covered wood dust in a container for proper disposal. Dispose in a landfill or incinerator

WOOD DUST

Wood dust shall be swept or vacumed up and disposed of in hoq fuel boiler. If we do have a abort in fuel system, the storm drain shall be covered until area is completely swept up.

EMERGENCY SPILL RESPONSE PHONE NUMBERS

CCS 532-4309

COASTAL CONTAINMENT 5329051

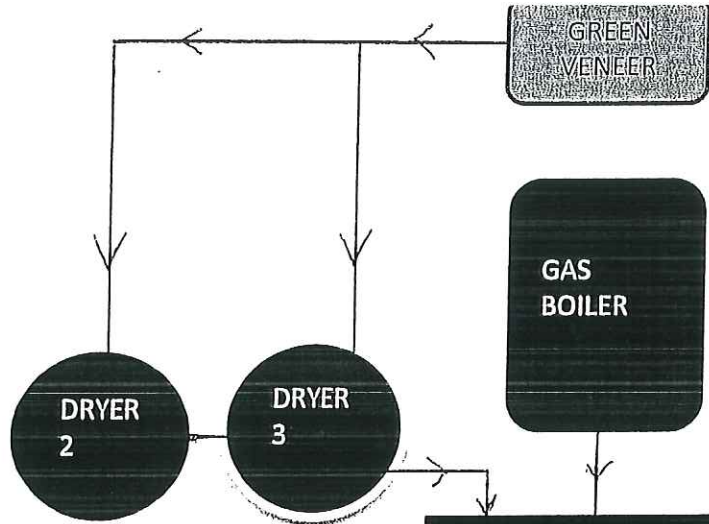
In the event of any major spill, Hoquiam Plywood would call one of our emergency response numbers for clean up and containment.

Hoquiam Plywood has personnel on each shift that have been trained for major spills and know who to call dor a major spill

Material Inventory

List materials handled, treated, stored, or disposed of at the site that may potentially be exposed to precipitation or runoff. Also indicate if any spills or leachate of pollutants have occurred in the past. (Including any pollutants no longer handled on-site.)

[illegible]



DIC-231 MOISTURE METER INK

SEI-125 LOW FREEZE ALKALINITY BUILDER
SEI-142 MULTI-POLYMER SLUDGE COND
WITH IRON SEQUESTANT
SEI-154 LIQUID DISSOLVED OXYGEN
SCAVENGER
SEI-171 CORROSION INHIBITOR
SEI-1027 BOILER SCALE CONTROL

PF 3181GS-CP RESIN
CAUSTIC SODA (50% SOLUTION)
SODA ASH
MODAL (BARK WOOD FLOUR)
WHEAT FLOUR
WATER

SAW

EPR-54 END SEAL GREEN

POLY

WATER BASE PUTTY FACE 808
E-400-A EPOXY RESIN (THK)
E-400-B EPOXY HRDNR NC (THK)

T&G

SAND

SHIP

MSDS SHEETS INCLUDED

Description of Exposed Significant Material					Worksheet #2A Completed by: Mark Mcfeely Title: Plant Manager Date: 3-15-2016	
Based on your material inventory, list significant materials that have been exposed since November 18, 1989, and/or are currently exposed.						
List of Exposed Significant Materials	Period of Exposure	Quantity Exposed (units)	Location (as indicated on the site map)	Method of storage, handling, treatment, or disposal (e.g., sealed drum standing outside, or covered pile, drum, tank)		
Fine sawdust	8 hrs.	50 lbs	#3 dryer metering bin	Swept up entire area and put back into fuel prep bin.		
Fine sawdust	12 hrs.	20 lbs	#3 drer metering bin	Swept up entire area and put back into fuel prep bin.		
Empty oil barrels	30 days	Empty	Boiler room	Had barrels removed and hauled away by Petit Oil Company		
Empty charger release	10 days	Empty	Boiler room	Removed and hauled away by Petit Oil Company		
Spreader Glue	1 Hr	5-10 gal	Washwater tank	Dammed off entire area and had CCS cleanup with vac. trucks		

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Stormwater Pollution Prevention Plan (SWPPP)
Houquiam Plywood Product 03/15/16

Soda Ash	Glue Mixing/Dry Powder storage room	LBS 875	LBS 5000		
Propane	Fuel for lift trucks/ Fueling station	1000 gal.	1500gal.		
Hydraulic oil AW46	Fluid for hydraulic units inside facility/oil room	1400 gal	300 gal.		
Gear Lube 90	Lubricating fluid for mill equipment/oil room	25 gal.	55 gal.		
10W30 motor oil	Oil for forklifts/stored in plastic tote inside oil room	100 gal.	125 gal.		
SEI-125	Boiler alkalinity builder/Boiler room	10 gal. per month	55 gal.		

Worksheet #2

Completed by: Mark Mcfeely

Title: Plant Manager

Worksheet #2

Completed by: Mark Mcfeely

Title: Plant Manager

Date: 3-15-2016

Material Inventory

List materials handled, treated, stored, or disposed of at the site that may potentially be exposed to precipitation or runoff. Also indicate if any spills or leaks of pollutants have occurred in the past. (Including any pollutants no longer handled on-site.)

Material	Purpose/ Location	Quantity (Units)			Exposed Since Nov. 89 (Yes/No)	Likelihood of contact with storm water If Yes, describe reason	Past or Leak
		Used	Produ ced	Stored			
318-H- Resin	Glue Mixing/Truck unloading area	LBS 81,750		LBS 40,000			Yes
50% Caustic	Glue Mixing/Truck unloading area	LBS 3500		LBS 36,000			
Wheat Flour	Glue Mixing/Dry Powder storage room	LBS 7500		LBS 15,000			
Modal	Glue Mixing/Dry Powder storage room	LBS 7500		LBS 15000			

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SECTION D. WATER CONSUMPTION AND WATER LOSS

1. Potable water source(s):

- ☒ Public System (Specify) City of Hoquiam
☐ Private Well ☐ Surface Water

a. Water Right Permit Number: _____

b. Legal Description of Water Source

_____ 1/4S, _____ 1/4E, _____, Section, _____ TWN, _____ R

2. Potable water use

a. Indicate total water use 500,000 per month

Gallons per day (average) 17,000

Gallons per day (maximum) 28,000

b. Is water metered?

☒ YES ☐ NO

SECTION E. WASTEWATER INFORMATION

1. How are the water intake and effluent flows measured?

Intake: City water meter

Effluent: estimated

2. Describe the collection method for the samples analyzed below. (i.e., grab, 24-hour composite). Applicants must collect grab samples (not composites) for analysis of pH, temperature, cyanide, total phenols, residual chlorine, oil and grease, fecal coliform (including *E. coli*), and Enterococci (previously known as fecal streptococcus at § 122.26 (d)(2)(iii)(A)(3)), or volatile organics.

3. Has the effluent been analyzed for any other parameters than those identified in question E.4.7? ☒ YES ☐ NO
If yes, attach results and label as attachment E.4. This data must clearly show the date, method and location of sampling. (Note: Ecology may require additional testing.)

4. Provide measurements or range of measurements for treated wastewater prior to discharge to the POTW for the parameters with an "X" in the left column. If you obtain the application from the internet, contact Ecology's regional office to see if testing for a subset of these parameters is permissible. All analyses (except pH) must be conducted by a laboratory registered or accredited by Ecology (WAC 173-216-125). If this is an application for permit renewal, provide data for the last year for those parameters that are routinely measured. For parameters measured only for this application, place the values under "Maximum." Report the values with units as specified in the parameter name or in the detection level.

The Permittee must use the specified analytical methods, detection limits (DLs) and quantitation levels (QLs) in the following table unless Ecology approves an alternate method or the method used produces measurable results in the sample and EPA has listed it as an EPA approved method in 40 CFR Part 136. If the Permittee uses an alternative method as allowed above, it must report the test method, DL, and QL on the discharge monitoring report or in the required report.

X	Parameter	Measurement Values			Number of Analytical	Analytical Method	Detection Limit/Quantitation Level
		Minimum	Maximum	Average			
X	BOD (5 day)		67.1		1	SM 5210 B	12 mg/L
X	COD		104		1	SM 5220 D	110 mg/L
X	Total suspended solids		251		1	SM 2540 D	16 mg/L
	Fixed Dissolved Solids					SM 2540 E	
	Total Dissolved solids					SM 2540 C	
	Conductivity (micromhos/cm)					SM 2610 B	
	Ammonia-N as N					SM 4500-NH ₃ C	10.3 mg/L
X	pH		8.3		1	SM 4500-H	0.1 standard units
	Fecal coliform (organisms/100 mL)					SM 9221 E or 9222 D	
	Total coliform (organisms/100 mL)					SM 9221 B or 9222 B	
	Dissolved oxygen					SM 4500-O C/G	
	Nitrate + nitrite-N as N					SM 4500-NO ₃ E	100 µg/L
	Total Kjeldahl N as N					SM 4500-N _{tot} C/E/F/G	300 µg/L
	Ortho-phosphate-P as P					SM 4500-P _o B/F	10 µg/L
	Total-phosphorous-P as P					SM 4500-P _T E/P/F	10 µg/L
X	Total Oil & grease		45.9		1	EPA 1604A	1.4/6 mg/L
	NWTPH - Dx					Ecology NWTPH Dx	250/250 µg/L
	NWTPH - Gx					Ecology NWTPH Gx	250/250 µg/L
	Calcium		1380		1	EPA 200.7	10 µg/L
	Chloride					SM 4500-Cl C	0.16 µg/L
	Fluoride					SM 4500-F E	0.25/0.1 mg/L
	Magnesium		229		1	EPA 200.7	10/60 µg/L
	Potassium		186		1	EPA 200.7	700/ µg/L
	Sodium		2536		1	EPA 200.7	20/ µg/L
	Sulfate					SM 4500-SO ₄ C/D	1200 µg/L
	Arsenic (total)		56		1	EPA 200.8	0.1/0.6 µg/L

Parameter	Measurement Value			Number of Analyses	Analytical Method Std. Method 800.20 Condition or EPA	Detection Limit/Quantitation Level
	Minimum	Maximum	Average			
Barium (total)		3.1			EPA 200.8	0.6/2 µg/l
Cadmium (total)		.070			EPA 200.8	.05/.25 µg/l
Chromium (total)		1.2			EPA 200.8	0.2/1 µg/l
Copper (total)		3.3			EPA 200.8	0.4/2 µg/l
Lead (total)		2.6			EPA 200.8	0.1/1.5 µg/l
Mercury (total) pp/L		0			EPA 1631E	0.2/0.5 pp/L
Molybdenum (total)		1.2			EPA 200.8	0.1/0.5 µg/l
Nickel (total)		2.6			EPA 200.8	0.1/0.5 µg/l
Selenium (total)		.030			EPA 200.8	1/1 µg/l
Silver (total)		.010			EPA 200.8	.04/.2 µg/l
Zinc (total)		60.2			EPA 200.8	0.5/2.5 µg/l

6. Does this facility use any of the following chemicals as raw materials, or produce them, as part of the manufacturing process, or are they present in the wastewater? ☐ YES ☒ NO

(The number in the column next to the chemical name is the Chemical Abstract Service (CAS) reference number to aid in identifying the compound.)

If yes, specify how the chemical is used and the quantity used or produced:



DRAGON ANALYTICAL LABORATORY

530 A1 Ronlee Ln, Olympia, WA 98502
(360) 866-0543

Hazardous Waste, Microbiology, NPDES, Potable and Non-potable Water
Mobile Environmental Laboratory

Hoquiam Plywood Products
1000 Woodlawn Ave
Hoquiam, WA 98550

Sampled By: Brian Fuller

DAL Project No.: 151204-02

Project Name: Waste Water

Project No.: 1

P.O. No.: 35470

Date Collected: 12/4/2015; 08:30

Date Received: 12/4/2015; 10:14

Temperature Received (°C): 3 to 4

Report Date: 12/15/2015

Data Reviewed by:

Preparation Method: US EPA 3010A

Analytical Method: US EPA 200.8

Date Prepared: 12/10/2015

Date Analyzed: 12/11/2015

Analyst: TM

Units: ug/L

Matrix: Non-Potable Water

Reporting Limits: Standard

Instrument ID: Agilent 7500

Lab Data File: 15L11k00

TOTAL HEAVY METALS ANALYTICAL RESULTS

Analyte	CAS No.	MRL	Method	
			Blank	Waste Water
Aluminum (Al)	7429-90-5	10	nd	532
Antimony (Sb)	7440-36-0	0.10	nd	0.49
Arsenic (As)	7440-38-2	0.50	nd	0.97
Barium (Ba)	7440-39-3	0.50	nd	65.8
Beryllium (Be)	7440-41-7	0.10	nd	nd
Cadmium (Cd)	7440-43-9	0.25	nd	nd
Calcium (Ca)	7440-70-2	50.0	nd	19,500
Chromium (Cr)	7440-47-3	0.50	nd	3.5
Copper (Cu)	7440-50-8	0.50	nd	25.0
Iron (Fe)	7439-89-6	50.0	nd	844
Lead (Pb)	7439-92-1	0.10	nd	3.3
Magnesium (Mg)	7439-95-4	25.0	nd	2,590
Manganese (Mn)	7439-96-5	0.50	nd	598
Mercury (Hg)	7439-97-6	0.10	nd	nd
Molybdenum	7439-98-7	0.50	nd	0.68
Nickel (Ni)	7440-02-0	1.0	nd	3.5
Potassium (K)	7440-09-7	100	nd	10,000
Selenium (Se)	7782-49-2	0.50	nd	nd
Silver (Ag)	7440-22-4	0.2	nd	0.20
Sodium (Na)	7440-23-5	100	nd	80,300
Thallium (Tl)	7440-28-0	0.50	nd	nd
Zinc (Zn)	7440-66-6	1.0	nd	163
Tin (Sn)	7440-31-5	0.10	nd	0.45
Dilution Factor			1.0	1.0



DRAGON ANALYTICAL LABORATORY

530 A1 Ronlee Ln, Olympia, WA 98502
(360) 866-0543

Hazardous Waste, Microbiology, NPDES, Potable and Non-potable Water
Mobile Environmental Laboratory

Hoquiam Plywood Products
DAL Project No.: 151204-02

Project Name: Waste Water
Project No.: 1

TOTAL HEAVY METALS QUALITY CONTROL RESULTS LABORATORY CONTROL SAMPLE AND MATRIX SPIKE

QC Batch ID: 151211-Metals										MS/MSD Sample ID: 151211-Metals MS/MSD										LCS Sample ID: 151211-Metals LCS									
Analyte	MS/MSD Level (ug/L)	Sample		MS		MSD		MS/MSD		MS/MSD RPD Limits	LCS Level (ug/L)	LCS		LCS Percent Recovery	LCS Limits (%)														
		Conc. (ug/L)	Recovery (ug/L)	Recovery (%)	Recovery (ug/L)	Recovery (%)	Limit (%)	RPD	Recovery (ug/L)			Recovery (%)																	
Aluminum (Al)	50	20.8	57.2	72.8%	55.2	68.8%	80-120	5.7	≤ 20%		50	43.7	87.4%		80-120														
Antimony (Sb)	50	0.31	48.0	95.3%	47.9	95.1%	80-120	0.25	≤ 20%		50	47.9	95.8%		80-120														
Arsenic (As)	50	0.58	38.7	76.3%	37.6	74.0%	80-120	3.1	≤ 20%		50	41.1	82.2%		80-120														
Barium (Ba)	50	3.1	48.8	91.4%	48.0	89.8%	80-120	1.8	≤ 20%		50	46.4	92.7%		80-120														
Beryllium (Be)	50	0.00	53.9	108%	54.2	108%	80-120	0.48	≤ 20%		50	53.7	107%		80-120														
Cadmium (Cd)	50	0.070	46.5	92.8%	46.1	92.0%	80-120	0.82	≤ 20%		50	46.7	93.5%		80-120														
Calcium (Ca)	5000	1380	6354	99.5%	6301	98.4%	80-120	1.1	≤ 20%		5000	4883	97.7%		80-120														
Chromium (Cr)	50	1.2	50.0	97.7%	48.1	94.0%	80-120	3.9	≤ 20%		50	51.0	102%		80-120														
Copper (Cu)	50	3.3	52.7	98.9%	50.6	94.6%	80-120	4.4	≤ 20%		50	51.5	103%		80-120														
Iron (Fe)	5000	73.3	5059	99.7%	5045	99.4%	80-120	0.28	≤ 20%		5000	4983	99.7%		80-120														
Lead (Pb)	50	2.6	51.9	98.7%	51.1	97.1%	80-120	1.6	≤ 20%		50	50.8	102%		80-120														
Magnesium (Mg)	5000	229	4802	91.5%	4662	88.7%	80-120	3.1	≤ 20%		5000	4712	94.2%		80-120														
Manganese (Mn)	50	3.1	50.5	94.7%	48.6	91.0%	80-120	4.0	≤ 20%		50	50.8	102%		80-120														
Mercury (Hg)	3.0	0.00	2.6	85.0%	2.5	84.0%	80-120	1.2	≤ 20%		2.0	1.7	83.0%		80-120														
Molybdenum	50	1.2	49.2	96.1%	48.9	95.4%	80-120	0.73	≤ 20%		50	49.8	99.7%		80-120														
Nickel (Ni)	50	2.6	51.4	97.5%	49.6	93.9%	80-120	3.7	≤ 20%		50	52.1	104%		80-120														
Potassium (K)	5000	186	7705	150%	7476	146%	80-120	3.1	≤ 20%		5000	4074	81.5%		80-120														
Selenium (Se)	50	0.030	37.2	74.4%	35.0	69.9%	80-120	6.3	≤ 20%		50	39.4	78.8%		80-120														
Silver (Ag)	50	0.010	49.5	98.9%	49.0	97.9%	80-120	0.98	≤ 20%		50	49.9	99.8%		80-120														
Sodium (Na)	5000	2536	7191	93.1%	6956	88.4%	80-120	5.2	≤ 20%		5000	4904	98.1%		80-120														
Thallium (Tl)	50	0.050	48.8	97.5%	48.6	97.1%	80-120	0.37	≤ 20%		50	50.1	100%		80-120														
Tin (Sn)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		50	48.0	96.0%		80-120														
Zinc (Zn)	50	60.2	78.6	36.9%	76.9	33.4%	80-120	10.1	≤ 20%		50	58.5	117%		80-120														
WA-DOE-Laboratory Certification No.: C890										"nd" indicates the analyte was not detected at or above the listed Method Reporting Limit.										n/a indicates not applicable									

Comments and Explanations: None.



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Hazardous Waste, Microbiology, NPDES, Potable and Non-potable Water
Mobile Environmental Laboratory

Hoquiam Plywood Products
1000 Woodlawn Ave
Hoquiam, WA 98550

Sampled by: Brian Fuller

Project Name: Waste Water
Project No.: 1

P.O. No.: 35470

Sample Name: Waste Water

Matrix: Non-Potable Water

Temperature Received (°C): 3 to 4

Collected: 12/4/2015; 08:30

Received: 12/4/2015; 10:14

Report Date: 12/15/2015

DAL Project No.: 151204-02

ANALYTICAL RESULTS

PARAMETER	RESULTS	MDL	MRL	UNITS	METHOD	DF	PREPARATION DATE	ANALYSIS DATE	ANALYSIS TIME	ANALYST	DATA FLAGS
BOD ₅	67.1	n/a	2.0	mg/L	SM 5210 B	1	12/4/2015	12/9/2015	n/a	EK	
COD	104	2.5	5.0	mg/L	SM 5220 D	1	12/4/2015	12/4/2015	n/a	JB	
Oil and Grease	45.9	1.5	5.0	mg/L	EPA 1664	1	12/9/2015	12/9/2015	n/a	JB	
pH	8.3	n/a	n/a	SU	SM 4500-H ⁺	1	12/4/2015	12/4/2015	11:20	EK	(1)
Solids, Total Suspended	251	n/a	2.5	mg/L	SM 2540 D	1	12/8/2015	12/8/2015	n/a	TW	

WA-DOE-Laboratory Certification No.: C890

"MDL" indicates Method Detection Limit

"MRL" indicates Method Reporting Limit

"DF" indicates Dilution Factor

"nd" indicates the analyte was not detected at or above the listed Method Reporting Limit.

"n/a" indicates not applicable

Comments and Explanations: A (1) flag Indicates an estimated value, because the sample was received and therefore analyzed outside of the recommended and regulatory hold time of 15 minutes.

Data reviewed by:

Report Prepared By: NJ



DRAGON ANALYTICAL LABORATORY

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Hazardous Waste, Microbiology, NPDES, Polable and Non-polable Water
Mobile Environmental Laboratory



Hoquiam Plywood Products
DAL Project No.: 151204-02

Project Name: Waste Water
Project No.: 1

QUALITY CONTROL RESULTS Method Blank

SAMPLE BATCH	PARAMETER	RESULT	MRL	UNITS	ANALYTICAL METHOD	ANALYSIS DATE	ANALYST	DATA FLAGS
151209-BOD	BOD ₅	nd	2.0	mg/L	SM 5210 B	12/9/2015	EK	
151204-COD	COD	nd	5.0	mg/L	SM 5220 D	12/4/2015	JB	
151209-FOG	Oil and Grease	nd	5.0	mg/L	EPA 1664	12/9/2015	JB	
151204-pH	pH	n/a	n/a	SU	SM 4500-H ⁺	n/a	n/a	
151208-TSS	Solids, Total Suspended	nd	2.5	mg/L	SM 2540 D	12/8/2015	TW	

QUALITY CONTROL RESULTS Duplicate Sample

SAMPLE BATCH	PARAMETER	RESULT	DUP. RESULT	UNITS	ANALYTICAL METHOD	RPD (%)	LIMITS (%)	ANALYSIS DATE	ANALYST	DATA FLAGS
151209-BOD	BOD ₅	67.1	75.1	mg/L	SM 5210 B	11.2	±35	12/9/2015	EK	
151204-COD	COD	76.2	74.5	mg/L	SM 5220 D	2.2	±35	12/4/2015	JB	
151209-FOG	Oil and Grease	n/a	n/a	mg/L	EPA 1664	n/a	n/a	n/a	n/a	
151204-pH	pH	8.3	8.2	SU	SM 4500-H ⁺	0.24	±35	12/4/2015	EK	(1)
151208-TSS	Solids, Total Suspended	110	129	mg/L	SM 2540 D	15.9	±35	12/8/2015	TW	

WA-DOE-Laboratory Certification No.: C890

"MRL" indicates Method Reporting Limit

"RPD" indicates Relative Percent Difference

"nd" indicates the analyte was not detected at or above the listed Method Reporting Limit.

"n/a" indicates not applicable

Comments and Explanations: None

Data reviewed by:



Hazardous Waste, Microbiology, NPDES, Potable and Non-potable Water
Mobile Environmental Laboratory

Hoquiam Plywood Products
DAL Project No.: 151204-02

Project Name: Waste Water
Project No.: 1

QUALITY CONTROL RESULTS
Laboratory Fortified Blank

SAMPLE BATCH	PARAMETER	LFB RESULT	TRUE VALUE	UNITS	ANALYTICAL METHOD	RECOVERY (%)	LIMITS (%)	ANALYSIS DATE	ANALYST	DATA FLAGS
151209-BOD	BOD ₅ (GGA)	n/a	n/a	mg/L	SM 5210 B	n/a	n/a	n/a	n/a	
151204-COD	COD	86.1	100	mg/L	SM 5220 D	86.1	65.0-135	12/4/2015	JB	
151209-FOG	Oil and Grease (PAR)	43.2	40.0	mg/L	EPA 1664	108	78.0-114	12/9/2015	JB	
151204-pH	pH	7.0	7.0	SU	SM 4500-H ⁺	100	65.0-135	12/4/2015	EK	
151208-TSS	Solids, Total Suspended	252	250	mg/L	SM 2540 D	101	65.0-135	12/8/2015	TW	

QUALITY CONTROL RESULTS
Matrix Spike/Matrix Spike Duplicate

SAMPLE BATCH	PARAMETER	MS RESULT	MSD RESULT	TRUE VALUE	UNITS	ANALYTICAL METHOD	RPD (%)	LIMITS (%)	ANALYSIS DATE	ANALYST	DATA FLAGS
151209-BOD	BOD ₅	n/a	n/a	n/a	mg/L	SM 5210 B	n/a	n/a	n/a	n/a	
151204-COD	COD	77.8	77.8	100	mg/L	SM 5220 D	0.00	±35	12/4/2015	JB	
151209-FOG	Oil and Grease	n/a	n/a	n/a	mg/L	EPA 1664	n/a	n/a	n/a	n/a	
151204-pH	pH	n/a	n/a	n/a	SU	SM 4500-H ⁺	n/a	n/a	n/a	n/a	
151208-TSS	Solids, Total Suspended	n/a	n/a	n/a	mg/L	SM 2540 D	n/a	n/a	n/a	n/a	

WA-DOE-Laboratory Certification No.: C890

"RPD" indicates Relative Percent Difference

"nd" indicates the analyte was not detected at or above the listed Method Reporting Limit.

"n/a" indicates not applicable

Comments and Explanations: None

Data reviewed by:

7. Are any other pesticides, herbicides or fungicides used at this facility? ☐ YES ☒ NO

If yes, specify the material and quantity used:

8. Are there other pollutants that you know of or believe to be present? ☐ YES ☒ NO

If yes, specify the pollutants and their concentration if known
(attach laboratory analyses if available as Attachment E8):

9. Is the wastewater being discharged, or proposed for discharge, to the POTW designated as a dangerous waste according to the procedures in Chapter 173-303 WAC?

☐ YES ☒ NO ☐ DON'T KNOW

10. If the answer to question 9 above is yes, how did the waste designate as a dangerous waste (check appropriate box)?

For Listed and TCLP Characteristic Wastes only, also provide the Dangerous Waste Number(s).

Listed Waste ☐

Dangerous Waste Number(s) _____

Characteristic Wastes

Dangerous Waste Number(s) _____

Ignitable ☐

Reactive ☐

Corrosive ☐

TCLP ☐

State Only Dangerous Wastes

Dangerous Waste Number(s) _____

Toxicity ☐

Persistent ☐

For questions about waste designation under the *Dangerous Waste Regulations*, Chapter 173-303 WAC, contact Ecology's Hazardous Waste and Toxics Program at:

Northwest Regional Office - Bellevue	(425) 649-7000
Southwest Regional Office - Lacey	(360) 467-6300
Central Regional Office - Yakima	(509) 575-2490
Eastern Regional Office - Spokane	(509) 329-3400

SECTION F. SEWER INFORMATION

1. Is an inspection and sampling manhole or similar structure available on-site? ☒ YES ☐ NO
*If yes, attach a map or hand drawing of the facility that shows the location of these structures
(Label as attachment F1 or this may be combined with map in H8, if H8 is applicable to your
facility.)*

SECTION G. OTHER PERMITS

1. List all environmental control permits or approvals needed for this facility; for example, air emission permits.

- 1.) ORCAA RCI 243
- 2.) Industrial Stormwater Permit # WAR001939

SECTION H. STORMWATER

1. Do you have coverage under the Washington State Industrial Stormwater NPDES General Permit?

☒ YES ☐ NO

If yes, please list the permit number here. WAIR 001939

If no, have you applied for a Washington State Stormwater Industrial Stormwater General Permit?

☒ YES ☐ NO

If you answered no to both questions above, complete the following questions 2 through 5.

2. Does your facility discharge stormwater: *(Check all that apply)*

☐ To storm sewer system *(provide name of storm sewer system operator: _____)*

☐ Directly to any surface waters of Washington State *(e.g., river, lake, creek, estuary, ocean).*

Specify waterbody name(s) _____

☐ Indirectly to surface waters of Washington State *(i.e., flows over adjacent properties first).*

☐ To a Sanitary Sewer

☐ Directly to ground waters of Washington State via:

☐ Dry well

☐ Drainfield

☐ Other

3. Areas with industrial activities at facility: *(check all that apply)*

☐ Manufacturing Building

☐ Material Handling

☐ Material Storage

☐ Hazardous Waste Treatment, Storage, or Disposal *(Refers to RCRA, Subtitle C Facilities Only)*

☐ Waste Treatment, Storage, or Disposal

☐ Application or Disposal of Wastewaters

☐ Storage and Maintenance of Material Handling Equipment

☐ Vehicle Maintenance

☐ Areas Where Significant Materials Remain

☐ Access Roads and Rail Lines for Shipping and Receiving

☐ Other (please specify): _____

4. Material handling/management practices

a. Types of materials handled and/or stored outdoors: *(check all that apply)*

- | | |
|--------------------------------------------------------------|-------------------------------------------------------------|
| <input type="checkbox"/> Solvents | <input type="checkbox"/> Hazardous Wastes |
| <input type="checkbox"/> Scrap Metal | <input type="checkbox"/> Acids or Alkalies |
| <input type="checkbox"/> Petroleum or Petrochemical Products | <input type="checkbox"/> Paints/Coatings |
| <input type="checkbox"/> Plating Products | <input type="checkbox"/> Woodtreating Products |
| <input type="checkbox"/> Pesticides | <input type="checkbox"/> Other <i>(please list)</i> : _____ |

b. Identify existing management practices employed to reduce pollutants in industrial stormwater discharges: *(check all that apply)*

- | | |
|---------------------------------------------------------|-------------------------------------------------------------|
| <input checked="" type="checkbox"/> Oil/Water Separator | <input type="checkbox"/> Detention Facilities |
| <input checked="" type="checkbox"/> Containment | <input type="checkbox"/> Infiltration Basins |
| <input checked="" type="checkbox"/> Spill Prevention | <input type="checkbox"/> Operational BMPs |
| <input type="checkbox"/> Surface Leachate Collection | <input type="checkbox"/> Vegetation Management |
| <input type="checkbox"/> Overhead Coverage | <input type="checkbox"/> Other <i>(please list)</i> : _____ |

5. Attach a facility site map showing stormwater drainage/collection areas, disposal areas and discharge points. This may be a hand-drawn map if no other site map is available *(See example on page 16 of this application)*. Label this as attachment H.5.

SECTION I. OTHER INFORMATION

1. Describe liquid wastes or sludges being generated by your facility that are not disposed of in the waste stream(s) and how they are being disposed of. For each type of waste, provide type of waste and the name, address, and phone number of the hauler.

Sludge From drying process is wood residue from veneer, waste is hauled away by Hometown Sanitation to Lemay's dump site in Aberdeen.

Hometown Sanitation
815 Simpson Ave.
Hoquiam, WA 98550
(360) 533-7319

2. Describe storage areas for raw materials, products, and wastes.

Resin = stored in tank inside enclosed building w/secondary containment
Caustic Soda = stored in tank inside enclosed building w/secondary containment

Soda Ash = } All dry material
modal = } stored inside
wheat Flour = } enclosed building
on pallets

Putty = stored in metal tote inside Finish warehouse
EPIK-54 Green Paint = stored in plastic tote inside Finish warehouse

3. Have you designated the wastes described above according to the applicable procedures of Dangerous Waste Regulations, Chapter 173-303 WAC?

☐ YES

☒ NO

inside Finish warehouse

Boiler treatment products are in plastic barrels stored inside Boiler room.

All Lubes/Oils = stored in fuel house w/secondary containment

BMP – Best Management Practices
Hoquiam Plywood Products
Storm Pollution Prevention Plan

“Good Housekeeping”

- All drums of any kind must be kept indoors - full or empty. All empty drums should be returned to the shop for proper disposal.
- All catch basins must be checked and maintained accordingly every week in the veneer yard and hog fuel area. All others checked monthly.
- Veneer yard must be kept free of wood waste - as areas are emptied out to be dried, swept and all material ran into the fuel storage area on a weekly schedule.
- Loading and unloading areas must be swept and kept free of wood waste. This means they must be swept on a weekly basis.
- All wood waste by the Clarks Bin and Bin #2 must be kept clean at all times. This area needs to be watched by the Boiler-men and Shift Supervisors.
- Burner area of #3 Dryer needs to be kept swept up and watched by the Shift Dryer-Tenders and Supervisors daily.
- Wash-water System must be kept clean and maintained every day. The spill tray must be in place and emptied back in the system after wood debris is removed daily.
- Scrap metal areas (ex: banding scraps, Maintenance metal) needs to be kept as clean as possible. All metal scraps should be picked up and kept in barrels until they are taken away. This is the Forklift Drivers and Maintenance Shop's responsibility to keep the areas clean daily.
- All Water Oil Separators must be inspected weekly or daily during heavy rainfall, to insure they are working properly. We will keep these working and maintained – this is a must!!
- All materials hauled into the plant or unloaded off of trucks will be stored indoors. Any spills caused by damaged bags will be swept up and disposed of in the dumpster.
- Any leaks of liquid material coming into the plant (ex: resin, caustic) must be reported and addressed right away. A visual inspection will be done daily by the Glue Mixer.
- All forklifts inside or outside of the facility must be taken into the shop for any kind of oil leak. If a leak should occur, it should be cleaned up right away and disposed of by putting it into the spill cleanup barrel inside the shop.

SUMMARY

Our goal here is Pollution Prevention. What is on the ground outside will eventually wash into the storm water system, so good housekeeping and constant visual inspections are mandatory by Supervisors, Maintenance personnel, Glue Mixer and Forklift operators.

Housekeeping standards in this facility are to help ensure a safe work environment at all times. Walk-around assessments are done by Shift Supervisors on a daily basis to make sure all areas are kept clean. These persons look for obstructions or hazards due to poor housekeeping. Maintenance personnel make sure all Sprinkle control rooms are accessible and kept clean. Operators are responsible for keeping work areas clean and make sure all fire extinguishers are in good working order. Facility is swept on a daily basis and thoroughly cleaned once a week. The inside of the entire facility is blown down semi-annually then swept up. Our housekeeping procedures are to keep all areas free from accumulation of materials that constitute hazards.

SECTION J. CERTIFICATIONS

1. Approval by Publicly-Owned Treatment Works [required by WAC 173-216-070(4)(b)]

I approve of the discharge as described in this application. The applicant is:

(Please check the appropriate box below.)

☐ A Significant Industrial User (see Definitions at the end of this Section)

☒ A Categorical Industrial User

☐ Neither of the above

Name and location of sewer system to which this project will be tributary:

Treatment Works Owner:

Street:

City/State:

Signature of Treatment Works Authority

Date

Title

Printed Name

2. Application review by Intermediate Sewer Owner at point of discharge (if applicable)

I hereby acknowledge that I have reviewed the application for discharge to this sewer system.

Name and location of sewer system to which this project will be tributary:

Sewer System Owner:

Street:

City/State:

Zip:

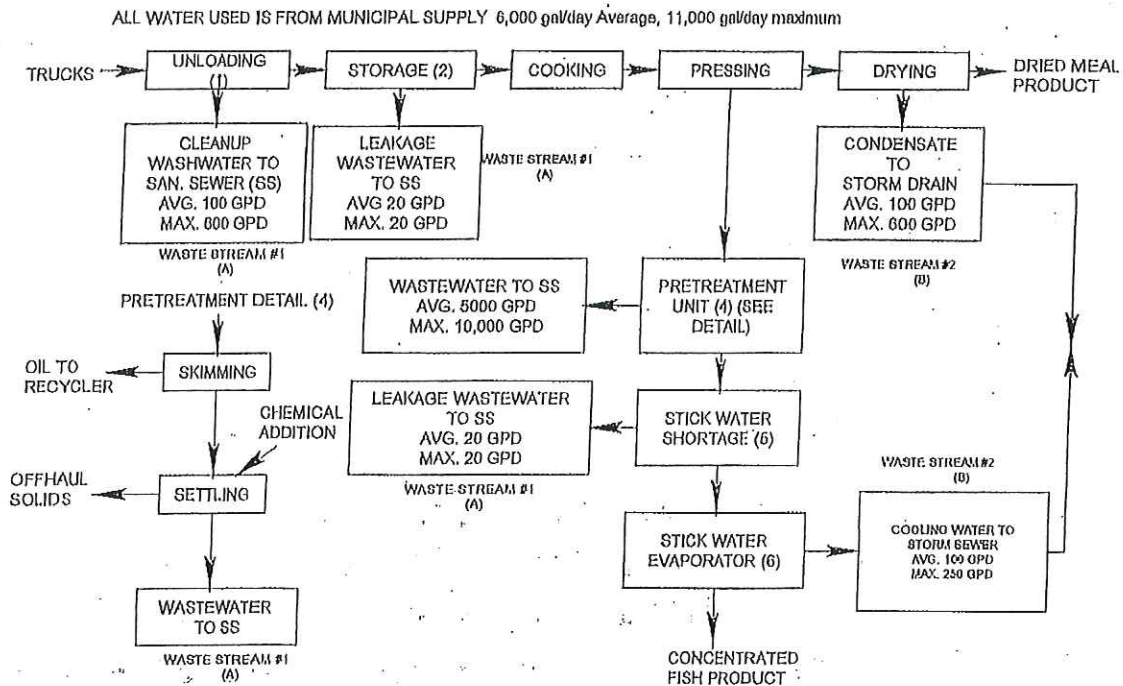
Signature of Sewer System Authority

Date

Title

Printed Name

Example 1 for application section C.2. (SCHEMATIC DIAGRAM)



Example 2 for application section F1 or H8 (FACILITY SITE MAP)

