

SLUG DISCHARGE CONTROL PLAN

PERMIT No. ST0007316

ARTISAN FINISHING SYSTEMS
14219 SMOKEY POINT BLVD #6
MARYSVILLE, WA 98271

The purpose of this Slug Control Plan is to eliminate or minimize the potential for an accidental discharge of pollutants that could reach the sanitary sewer and cause a violation of the Public Works Wastewater Treatment Plant of Marysville, WA.

The following Slug Control Plan describes procedures for identifying potential spill sources, implementing preventative measures, conducting spill response and notifying the appropriate authorities in the event of an accidental slug discharge to the sanitary sewer. This plan presents best management practices for preventing slug discharges to the sanitary sewer.

Definition of Slug Discharge: Slug Discharge means any discharge of a non-routine, episodic nature, including but not limited to: a spill or non-customary discharge of potentially hazardous material or hazardous waste discharge.

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A copy of this plan is to be kept on site and readily available to facility personnel and to the Department of Ecology inspectors upon request.

This plan is to be periodically reviewed and updated as necessary.

In the unlikely event of a slug discharge, the following will occur:

1. Reporting Systems- Communication

- Immediately notify POTW- City of Marysville Wastewater Treatment Facility
 - 360-363-8100
- Notify Dept of Ecology Water Quality 206-594-0000
- As needed, written follow up within 5 days.
- Long term corrective action to prevent future occurrences.

2. Operator training, Equipment and Facilities

The facility uses a series of dip tanks accessed by an overhead crane system. Active chemicals in the tanks are without direct access to the wastewater system. Rinse tanks are associated with each active chemical tank. Rinse Tanks are in direct access to the wastewater system.

Caustic and Acid Rinse Tanks are a flow-through overflow tank with wastewater exiting the tank at an overflow into a gravity drain.

All Chromium dip tanks, active and rinse, are not connected to the wastewater stream. Direct contamination is not possible. The Chromium Filter Press is connected to the wastewater stream via a pump system.

Other than bathroom sinks and toilets there are no other direct access points to the wastewater leaving the facility. There are no floor drains. Bathroom sinks and toilets are not considered a concern for the purpose of this plan.

Employees receive on the job training involving use of chemicals. Training information is listed below.

Identified Potential Slug Discharge.

There are three identified potential areas of slug discharge to the wastewater stream.

pH- The automated equipment -of the adjusts of the pH in the mixing tank fails cause wastewater flow out of the pH specifications.

Immediate Corrective Actions:

- Begin Manual procedure for adjust Ph
- see Manual pH Testing and Corrective Actions (included)
- Contact POTW (Public Owned Treatment Works) of the failure
- Long Term corrective actions will be to repair or replace the automated equipment

Chromium Filter Press System Fails- allowing a chromium release

Immediate Corrective Actions:

- Stop all pumps and close all valves related to these systems
- Do not operate the systems until repaired
- Contact POTW of the failure
- Contact the Dept of Ecology Water Quality 206-594-0000
- Long Term Corrective Action will be to repair the Filter Press System

Chemical Spills during transfer of raw materials drums

See Emergency and Contingency Plans

3. Procedures to prevent adverse impact from accidental spills
 - a. Inspection and Maintenance of storage areas is recorded on the Weekly Facility Inspection Checklist. When deficiencies are found they are either addressed immediately or the facility manager is notified so deficiencies can be corrected. Inspection Report is located in the Lab. All chemicals are stored in drums or containers.
 - b. Handling and transfer of material: All materials of concern are stored in berm areas. Drums are transferred only if they are sealed and with a drum attachment. Chemicals are used in small amounts and often transferred in buckets. Employee instructions are simply explained and available in work area "How to add chemicals".

- c. Loading and unloading operations: Chemicals are loaded and unloaded in sealed 55-gallon drums by means of a drum lift forklift attachment.
 - d. Control of plant site run-off. There is no plant site run-off concern.
 - e. Worker Training. Workers are trained on use of and transfer of chemicals before they are allowed to use/transfer them.
 - f. Building of containment structures or equipment. Containment berms for chemicals exist. A solvent berm in the NW corner of the building and a Chemical berm around the Pre-Treatment area. Additionally, the caustics and acids are staged in sub-berms inside of the main berm. Both Berms were resealed in 2008.
 - g. Measures for containing Toxic Organic Pollutants (solvents). Drums of solvents are stored in berm area. Waste solvents are stored in area berm area. Waste solvents are shipped and reported to DOE as D00001 waste stream. All spent solvents and contaminated/hazardous waste are picked up in drums provided by Ingenium Group by appt: Ingenium Group, LLC 955 W. Mission Ave., Escondido, CA 92025 (760) 745-8780
 - h. Measures and equipment for emergency response. See Emergency and Contingency Plan
- 4. A list of raw materials, products, chemicals and hazardous materials used, processed and stored, as well as a facility map, is maintained and is also contained in the Emergency Contingency Plans.
 - 5. Discharge practices. Normal conditions-Pre-treatment control panel is turned on the start of pre-treatment. This control panel operates the automatic pH adjust system, the mixing motor for the pH adjust tank, and the operation of the Chromium scrubber. Water valve is turned allowing the water to flow into the flow-through rinse tanks. The system is an elevated gravity feed system with the only input being overflow from the caustic and acid rinse tanks and the pH adjust as called by the system.
- Non-routine- pH auto adjust system – if not working correctly or a larger than normal quantity of rinse water enters the system, manual monitoring and adjustments may be needed.
- 6. A brief description of unauthorized discharges occurred on July 2018 when the pH automatic adjust system failed. POTW was contacted. Shane Freeman responded in person. Artisan went to a manual monitoring and adjustment system for approximately two months until Oct. 1, 2018 when the new system became operational.
 - 7. Plan is implemented upon completion as it is current operations.

Manual Ph Testing and Corrective Actions:

Testing (At least hourly – Set Timer for 45 minutes)

- Grab sample from tank (cup of water from 3rd blue tank)
- Turn on instrument
- Place in test liquid
- Wait for readings to stabilize
- Record Readings
- Check to see if Corrective Actions are required and take actions if needed
- Empty sample and turn off and store Instrument

Corrective Action

- Ph between 6.5 and 9.9 – No action required
- Ph 10.0 +
 - Add one(1) cup of acid from tank #4 into mixing tank (round white tank)
 - (wear eye protection)
- Ph 6.4 –
 - Add ¼ cup caustic from tank #1 into mixing tank (round white tank)
 - (wear eye protection and gloves)

Calibration:

Ph instrument is to be Calibrated once per day.

Pre-Treat Press Procedures:

- Fill Collection tank from tank #8 (PH is usually ~2.0)
- Turn on air valve (near control panel) to start mixing the tank.
 - Let mix about 15 minutes.
- Add ½ bag of Metabisulphate.
 - Let mix about 15 minutes
- Add Sodium Hydroxide bead (caustic bead) to bring PH up to about 10.0 (~ 1.5 buckets)
 - Let mix about 15 minutes
- Turn off mixing air.
- Take a grab sample in a glass jar
- Allow tank to settle at least one full day.
- Check grab sample to assure Chromium precipitated out
- Check actual tank to assure similar results.
- If precipitated go to Press (below)
- If not precipitated – Add acid to make acidic (Ph <5) then start over.

Press:

- Run off excess liquid – small pump 30 let syphon finish
- Close press chamber – Air valve on top of press pump. – Takes 5 minutes
- Open fluid valves – 3 smaller white valve in series north side of press
- Turn on pump
 - Orange valve on
 - Larger white valve on
 - Air valve to turn on pump.
- Let pump 15+ minutes until done pumping
- Turn off Pump
 - Orange valve off
 - Larger white valve off
 - Air valve to turn off pump.
- Close press fluid valves – 3 smaller white valve in series north side of press
- Pressurize with air – Air valve above fluid valves.
- Turn off air
- Open the 3 fluid valves
- Open the press chamber – Air valve on top of press pump. – Takes 5 minutes
- Clean screens



Artisan Finishing Systems Pretreatment Tanks

TANK	TANK 1	TANK 2	TANK 3	TANK 4	TANK 5	TANK 6	TANK 7	TANK 8	TANK 9
	CAUSTIC SOAK	CAUSTIC STRIP	H ₂ O	NEUTRALIZES THE STRIPPERS	H ₂ O	Overflow	Chromium	H ₂ O	H ₂ O
	CLEANER 98		RINSE	DEOX	RINSE		ALLUMI-KOTE	RINSE	RINSE
	Concentration: 1.0 - 3.0 % Temperature: 120 - 130°F Process time: 3-5 Minutes (A-B/3)*.625	Stripper	Ambient temp	Concentration: 5.0 - 7.0 % Temperature: 80-90°F Process 5-10 minutes	Ambient temp	Overflow	Chromium Concentration: 7.5-11.5 mls Temperature: 90-115°F Process 1-3 minutes	Ambient temp	Temperature: 110-120°F Non-flowing

ARTISAN FINISHING SYSTEMS

CONTINGENCY PLAN

Modified May 20, 2022

Purpose: The purpose of this plan is to lessen the potential impact on the public health and the environment in the event of an emergency circumstance, including a fire, explosion, or unplanned release of dangerous waste by this facility. This plan is written in compliance with WAC 173-303-350.

(a) EMERGENCIES

- a. The Emergency Coordinator must immediately:
 - i. Activate internal facility alarms and communication systems, where applicable, to notify all facility personnel and direct someone to CALL 911.
 - ii. Notify appropriate state or local agencies with designated response roles if their help is needed.
- b. When there is a release, fire, or explosion, the Emergency Coordinator must first CALL 911 and then immediately identify the character, exact source, amount, and extent of any released materials only if safe to do so.
- c. The Emergency Coordinator must concurrently assess possible hazards to human health and the environment (considering direct, indirect, immediate, and long-term effects), if safe to do so or wait until Emergency Response Team arrives.
- d. If the Emergency Coordinator determines that the facility has had a release, fire, or explosion which could threaten human health of the environment, he must report his findings as follows:
 - i. If his assessment indicates that evacuation of local areas may be advisable, he must immediately notify appropriate local authorities (911 – Fire, Police). He must be available to help appropriate officials decide whether local areas should be evacuated.
 - ii. He must immediately notify the Nation Response Center (24 hour 1(800) 424-8802)
- e. The Emergency Coordinator must provide the following information:
 - i. Name and Telephone number of reporter
(site phone (360) 658-0686)
 - ii. Name and Address of facility
Artisan Finishing Systems, Inc.
14219 Smokey Point Blvd
Bldg #6
Marysville, WA 98271
 - iii. Time and Type of incident (e.g. spill, fire)
 - iv. Name and quantity of materials involved, to the known extent.
 - v. Extent of injuries (if any)
 - vi. Possible hazards to human health or the environment outside the facility.
- f. During an emergency the Emergency Coordinator must take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other dangerous waste at the facility, if safe to do so. Including

stopping operations, collecting and containing released waste, and removing or isolating containers.

- g. If operations are stopped the Emergency Coordinator must appropriately monitor idle operating systems
- h. Immediately after an emergency, the Emergency Coordinator must provide for treating, storing, or disposing of recovered waste, contaminated soil, or any other material that results from a release, fire, or explosion at the facility.
- i. Emergency Coordinator must ensure that in the effected areas of the facility:
 - i. No waste that may be incompatible with the released material is treated, stored, or disposed of until cleanup procedures are completed
 - ii. All emergency equipment listed is cleaned and fit for its intended use before operations.
- j. The Department of Ecology and local authorities must be notified before operations are resumed in the affected areas.
- k. Within 15 days of the incident a written report on the incident must be filed to the Department of Ecology including
 - i. Name, Address, and Telephone number of owners
 - ii. Name, Address, and Telephone number of facility
 - iii. Date, Time and Type of incident (e.g. spill, fire)
 - iv. Name and Quantity of materials involved.
 - v. Extent of injuries (if any)
 - vi. An assessment of actual and potential hazards to human health or the environment.
 - vii. Estimated Quantity and Disposition of recovered material that resulted from the incident.
 - viii. Cause of incident
 - ix. Description of Corrective Action taken to prevent reoccurrence of the incident.

(b) **Damaged Shipments**

In the event of dangerous waste which is damaged on arrival and presents a hazard to public health and the environment, but cannot be transported due to WAC requirements:

- a. Emergency Coordinator will implement the emergency procedures listed above.
- b. The level of damage and estimated spillage or release will be documented.
- c. Transporter will be notified.
- d. Immediate emergency actions may take place both in and out of the freight vehicle; However, the freight company will be responsible for the final clean-up of its own equipment.

(c) **Evacuation Routes and Emergency Equipment maps are posted.**

(d) **Emergency Coordinators**

Barb Brown, Facility Coordinator
Home Phone: (425)301-7414

Tyler Brown, President (secondary facility coordinator)
Cell Phone: (425) 892-0582

Ted Smith, Alternate Contact
Cell Phone: (425) 330-9915

- (e) List of emergency equipment
 - a. Facility Equipment
 - i. Notification Systems
 - 1. Fire Alarms
 - 2. Internal telephone communication speaker
 - ii. Fire Equipment
 - 1. Fire extinguishers are mounted every 75 feet in the production area and two fire extinguishers are in the main office area.
 - 2. Sprinkler System for full building including paint booths and exhaust stacks.
 - iii. Ventilation - The facility has ventilation fans.
 - iv. Other emergency equipment
 - 1. First Aid Stations – Three(3)
 - 2. Eye Wash Stations – Three (3)
 - 3. Chemical Shower – One(1)
 - b. Personal Protective Equipment
 - i. Respirators - Silicone half mask respirators available.
 - ii. Protective Clothing
 - 1. Gloves - Natural rubber/latex gloves.
 - 2. Tyvek® suits.
 - 3. Eye Protection – Glasses and or goggles and face shields.
- (f) Evacuation plan

Employees are instructed to exit by the closest lighted exit and assemble in the South (main) parking lot by the south fence (east o.

Plan Administration:

Locations of this plan

- (a) In the facility
 - a. Main Office
 - b. Production Area

(b)

This plan will be reviewed amendment made when

- (a) Applicable regulations or permits are revised
- (b) The plan fails in an emergency
- (c) The facility or operations change in a way that materially increases the potential for fires, explosions, or releases of dangerous waste or changes the response necessary in an emergency.
- (d) The list of emergency coordinators change.
- (e) The list of emergency equipment changes.

EMERGENCY RESPONSE LISTINGS

Artisan Finishing Systems
14219 Smokey Point Blvd #6
Marysville WA 98271

Phone 360-658-0686
Fax 360-658-0954

UPDATED 5/20/22

MINOR INJURIES

360-657-8700

Skagit Regional Clinic
3823 172nd St NE Arlington WA 98223
Cascade Valley Hosp AR
360-435-2133
Providence Hosp EVT
425-261-3000

MAJOR INJURIES, ETC.

911

SPILL NOTIFICATION

HAZ MAT 911 IF NEEDED
EMERGENCY MANAGEMENT 911
DEPT OF ECOLOGY 425-649-7000

425-423-7635 BUSINESS OFFICE
AFTER EMERGENCY ACTIONS

AFTER HOURS PLANT ACCESS

TYLER BROWN 425-892-0582
TED SMITH 425-330-9915
BARBRA BROWN 425-301-7414
MICHAEL BOWDEN 425-876-8702

President

POSITION CONTROL

1-800-222-1222

www.wapc.org

24 HR EMERGENCY PHONE NUMBERS FOR SOME CHEMICALS, SOLVENTS, ETC.

AKZO NOBEL 800-424-9300
CARDINAL PRODUCTS 800-424-9300
P.P.G. PRODUCTS 412-434-4515
SHERWIN WILLIAMS 216-566-2917
VALSPAR PRODUCTS 888-345-5732
CASCADE COLUMBIA 206-282-6334
XMB-50
MEK
XYLENE
SULFURIC ACID
SODIUM GLUCONATE
SODIUM HYDROXIDE
SODIUM METABISULPHATE

SODIUM THIOSULFATE 800-451-8346
POTASSIUM IODIDE 800-424-9300
HYDROCHLORIC ACID 800-451-8346
SODIUM FLUORIDE 414-273-3850
TITRATING 104 517-263-9430
INDICATOR 3 517-263-9431
REAGENT 6 517-263-9432
INDICATOR 10 517-263-9433
CAUSTIC SODA 800-733-3665
CHEMCO 213-602-2116
ALUMIKOTE 1 & 2
CLEANER 98
DEOX 300

