

Snohomish County Solid Waste Division Vactor Waste Decant Facility
User Agreement

The undersigned, in consideration of access to, and use of, Snohomish County's Vactor Decant Facility (the "Facility") agrees to the following:

- 1) All materials to be disposed of at the Facility shall meet the chemical thresholds identified Attachment A - Acceptable Chemical Thresholds.
- 2) Snohomish County may require the undersigned to perform sampling and appropriate laboratory waste characterization test prior to disposal.
- 3) Snohomish County reserves the right to inspect and test any materials to be disposed of, or already unloaded, at the Facility. In the event tested materials do not meet the required chemical thresholds required by Attachment A, the undersigned agrees to pay for the costs of testing, the County's costs in removing and properly disposing of the non-conforming material, any and all damage to the Facility, including fixture and equipment, caused by the non-conforming material, and all disposal costs, cleanup costs, remediation costs and other costs, if any, resulting from disposal of the non-conforming materials at the Facility.
- 4) Snohomish County reserves the right to deny future entry to the undersigned in the event the undersigned is found to have disposed of non-conforming material at the Facility and subsequent failure to pay the costs identified in Section 3 above.
- 5) The undersigned agrees to pay all Facility user fees at the time of disposal.

Signature

(Company Name)

Signature of Owner/Responsible Party

Date

Please return this signed agreement to:
Snohomish County Solid Waste Division
Attn: Cashiering Specialist
8915 Cathcart Way
M/S 607
Snohomish, WA 98296

Attachment A - Acceptable Chemical Thresholds

Soils – Chemical Threshold Levels

TCLP Volatiles		TCLP Semi-volatiles	
Benzene	10 mg/kg	Hexachlorobenzene	2.6 mg/kg
Carbon Tetrachloride	10 mg/kg	Hexachlorobutadiene	10 mg/kg
Chlorobenzene	2000 mg/kg	Hexachloroethane	60 mg/kg
Chloroform	120 mg/kg	Nitrobenzene	40 mg/kg
1,4-Dichlorobenzene	150 mg/kg	Pyridine	100 mg/kg
1,2-Dichloroethane	10 mg/kg	2,4-Dinitrotoluene	2.6 mg/kg
1,1-Dichloroethylene	14 mg/kg	o-Cresol	4000 mg/kg
Methylethylketone (MEK)	4000 mg/kg	m-Cresol	4000 mg/kg
Tetrachloroethylene	14 mg/kg	p-Cresol	4000 mg/kg
Trichloroethylene	10 mg/kg	Cresol, Total	4000 mg/kg
Vinyl Chloride	4 mg/kg	Pentachlorophenol	2000 mg/kg
TCLP Herbicides		2,4,5-Trichlorophenol	8000 mg/kg
2,4-D	200 mg/kg	2,4,6-Trichlorophenol	40 mg/kg
2,4,5-TP (Silvex)	20 mg/kg	TCLP Pesticides	
TCLP Metals		Heptachlor Epoxide	N/L ¹
Arsenic	100 mg/kg	Chlorodane	0.6 mg/kg
Barium	2000 mg/kg	Endrin	0.4 mg/kg
Cadmium	20 mg/kg	Heptachlor	0.16 mg/kg
Chromium	100 mg/kg	Lindane	8 mg/kg
Lead	100 mg/kg	Methoxychlor	200 mg/kg
Mercury	4 mg/kg	Toxaphene	10 mg/kg
Selenium	20 mg/kg		
Silver	100 mg/kg		

Liquid – Chemical Threshold Levels

Non-conventionals		Conventionals	
Arsenic (T)	0.50 mg/L	pH	5.0 - 10.0
Cadmium (T)	0.24 mg/L	BOD	250 mg/L
Chromium (T)	5.00 mg/L	TSS	250 mg/L
Copper (T)	3.00 mg/L	FOG/Polar	50 mg/L
Lead (T)	1.89 mg/L	FOG/Nonpolar	200 mg/L
Mercury (T)	0.10 mg/L	Closed Cup Flashpoint	140 ^o F
Nickel (T)	2.83 mg/L		
Silver (T)	0.49 mg/L		
Zinc (T)	4.00 mg/L		
Cyanide (T)	0.65 mg/L		

(T) = Total metals not dissolved



Snohomish County Solid Waste Division

Snohomish County Vector Waste Decant Facility User Manual

**Last Updated
July 2019**

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1.0 Overview

The Snohomish County Vactor Waste Decant Facility is a self-service station designed to process, treat, and dispose stormwater materials from customers throughout Western Washington. The primary components of the facility consists of a decant basin, sumps, oil/water separator, drying bins, and material storage area. The facility has a concrete surfaces and drainage designs that allow for directing potentially contaminated runoff to a Wastewater Pretreatment Facility on-site and is graded to avoid excess run-on from the surrounding area and directing uncontaminated runoff to stormwater treatment ponds.

The Snohomish County Vactor Waste Decant Facility is located in the Cathcart area of Snohomish County, 4 miles south of the City of Snohomish. The facility is closed on weekends and on all county holidays (New Year's Day, Easter, Thanksgiving Day, and Christmas Day). The facility is under 24 hour video surveillance.

2.0 Acceptance Policy

Only vehicles that have the ability to discharge liquids and solids separately or have a total capacity for liquids **not exceeding 5,000 gallons** will be allowed at the Snohomish County Vactor Waste Decant Facility.

2.1 Allowable Materials

Wastes accepted for disposal at the Snohomish County Vactor Waste Decant Facility without special permission include:

- Stormwater drainage system solids and liquids
- Drilling slurry
- Decant liquids

2.2 Special Permission Required

Materials that require approval prior to dispose at the Vactor Waste Decant Facility, include, but are not limited to, the following:

- Concrete slurries
- Grease traps
- Sites associated with the production of solvents, fuels, PCBs, pesticides, or radioactive materials
- Stormwater and/or water treatment system (filters, filter media, etc.)
- Stormwater drainage systems with known or historic contamination
- Solids and liquids from street washing using detergents
- Cleaning of electrical vaults
- Vehicle wash sediment traps
- Industrial process waste
- High volume loads

Customers disposing materials that require special permission without prior approval may have their authorization to use the facility suspended immediately.

2.3 Prohibited Materials

The following items are strictly prohibited for disposal at the Vactor Waste Decant Facility:

- Dangerous wastes
- Hazardous wastes
- Suspected or obvious contaminated materials
- Sewage

Customers will be held accountable for any misuse of the facility and unacceptable materials disposed at the facility as well as the company or agency the user represents. Drivers are responsible for the materials being disposed of at the facility, and will be held accountable for delivery of prohibited materials. Customers who disposes of prohibited materials at the facility will be responsible for the cost of cleaning the station, sewer line, and receiving treatment plant facilities and any other accrued expenses related to cleaning the facility.

2.4 Required Chemical Threshold Levels

All materials must meet the acceptable chemical thresholds set forth in WAC 173-303. All customers will asked to submit chemical analytics demonstrating that materials falls within the follow chemical thresholds:

Soils – Chemical Threshold Levels			
TCLP Volatiles		TCLP Semi-volatiles	
Benzene	10 mg/kg	Hexachlorobenzene	2.6 mg/kg
Carbon Tetrachloride	10 mg/kg	Hexachlorobutadiene	10 mg/kg
Chlorobenzene	2000 mg/kg	Hexachloroethane	60 mg/kg
Chloroform	120 mg/kg	Nitrobenzene	40 mg/kg
1,4-Dichlorobenzene	150 mg/kg	Pyridine	100 mg/kg
1,2-Dichloroethane	10 mg/kg	2,4-Dinitrotoluene	2.6 mg/kg
1,1-Dichloroethylene	14 mg/kg	o-Cresol	4000 mg/kg
Methylethylketone (MEK)	4000 mg/kg	m-Cresol	4000 mg/kg
Tetrachloroethylene	14 mg/kg	p-Cresol	4000 mg/kg
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TCLP Metals		Heptachlor Epoxide	N/L ¹
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Selenium	20 mg/kg		
Silver	100 mg/kg		
Liquid – Chemical Threshold Levels			
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Arsenic (T)	0.50 mg/L	pH	5.0 - 10.0
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Copper (T)	3.00 mg/L	FOG/Polar	50 mg/L
Lead (T)	1.89 mg/L	FOG/Nonpolar	200 mg/L
Mercury (T)	0.10 mg/L	Closed Cup Flashpoint	140° F
Nickel (T)	2.83 mg/L		
Silver (T)	0.49 mg/L		
Zinc (T)	4.00 mg/L		
Cyanide (T)	0.65 mg/L		
		(T) = Total metals not dissolved	

3.0 Inspection of Materials

Prior to depositing materials at the Snohomish County Vactor Waste Decant Facility customers should inspect the materials for evidence of contamination or possible contamination. Signs of contaminated or potentially contaminated materials include:

- The presence of fumes, vapors, or odors.
- An unusual water color; including clear or transparent water.
- Dark, thick, gooey sludge on top of the sediment.
- There is significant vegetation or algal growth present.
- Drainage area stained or corroded.

All material brought to the Snohomish County Vactor Decant Facility will be subject to random field testing, or if the station operator or Solid Waste Division representative suspects that the material may be contaminated due to screening or origin. If the material is determined to be questionable, the vehicle operator will be asked to pull aside while field testing is performed on the materials. A conductivity, pH, and TPH-D test will be performed on the material. Failure of any of these tests is cause for the material to be rejected.

3.1 Sampling Procedures

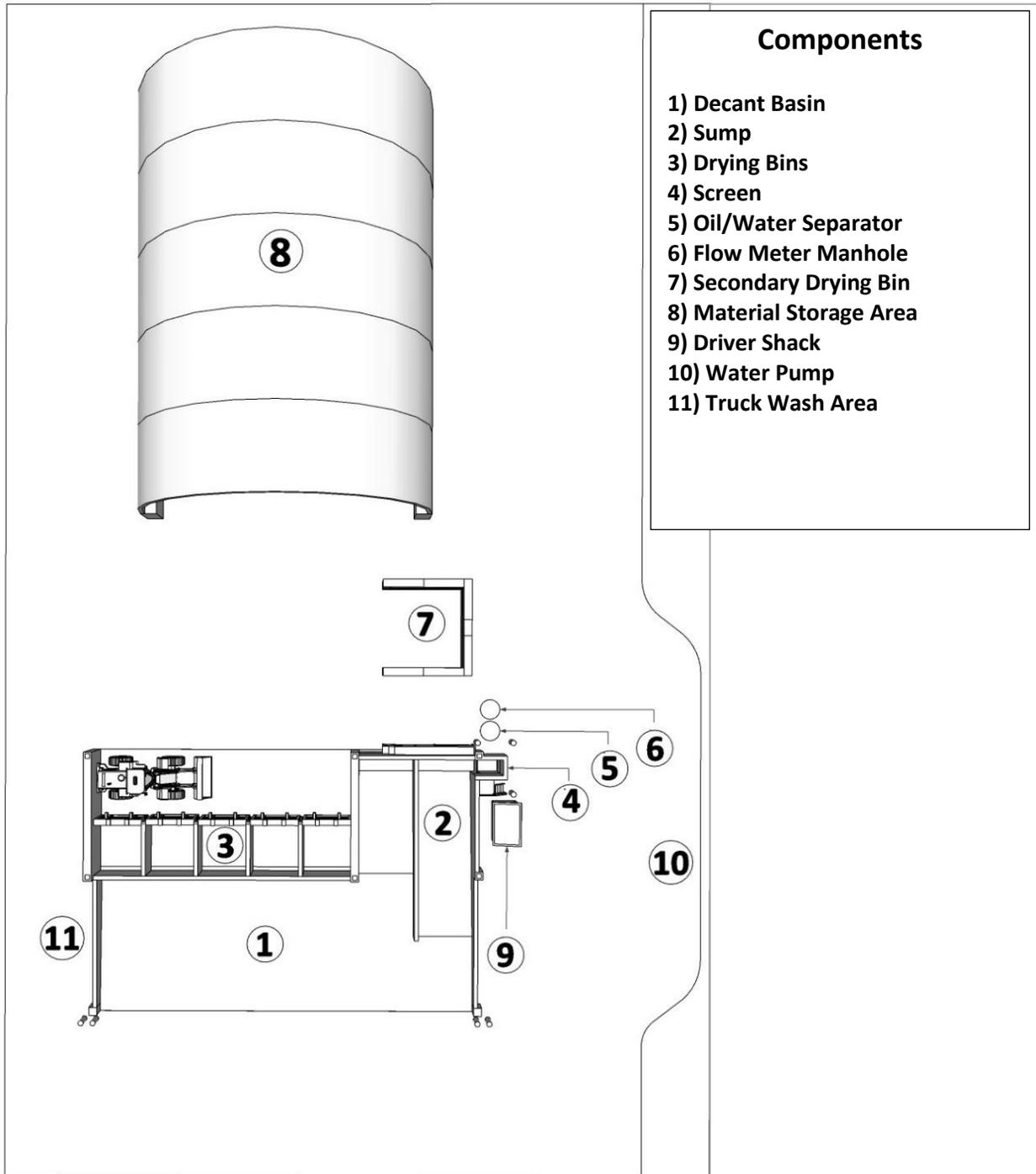
The vehicle operator will be required to fill out a load transaction ticket and will be billed in accordance with the Solid Waste Fee Schedule for dumping their liquids, solids and for administrative costs. Field screening procedures include:

- 1) Observing the sight and odor of the water is dumped from the Vactor load. Any one of the below observations is cause for field testing of the load or rejection:
 - a) A sheen, petroleum globules or an oil slick on the water.
 - b) Water that is dark brown, reddish or brownish black may be suspect for oxidized metals.
 - c) Smell for an odor of gasoline, solvent, fuel oil or any strong petroleum smell.
 - d) Smell for noxious chemical odors.
 - e) Loads with any smell of septage must be rejected unless it can be verified that it is not septage waste.
- 2) If load is questionable, the customer will be asked to pull aside and a field test on the water/solid load sample will be performed. Three field tests on solids will be performed. Failure of any of these tests is cause for the operator to reject the load.
 - a) Conductivity (>15,000 $\mu\text{mhos/cm}$) limit for load rejection.
 - b) pH (<5 or >10) limits for load rejection.
 - c) TPH-D (>10,000 ppm TPH) limit for load rejection.

Loads that do not pass field testing for contamination will be rejected and will not be allowed to dump.

- 3) All information pertaining to the rejected load including the operator observations, origin of the vactor waste and field test results will be carefully record in a log book.
- 4) The customer will be informed of other options such as having the load tested by an analytical laboratory for proof that the load is not hazardous or taking the load to a private hazardous waste disposal center.
- 5) The driver will be informed that the Snohomish Health District and other appropriate regulatory agencies will be immediately informed of the contaminated load. Any previously rejected loads that can pass the minimum standards for vactor waste acceptance, after being tested by an approved analytical laboratory, will be accepted after submission of written proof.

4.0 Facility Instructions



The facility is made up of the following components:

(1) Decant Basin - The Decant Basin consists of concrete paving of various slopes which drain to the Sump. The various slopes allow the separation of the water from the solids as the material flows towards the Sump. The discharge area is at a slope of 10% to minimize the amount of water and solids flowing under

the vehicle discharging. The main portion of the decant basin is sloped at 3% where most of the solids settle onto the concrete surface. The less dense materials and water flow to the Sump.

(2) Sump - The Sump allows additional settling of solids prior to discharge through the screen and out to the Oil Water Separator and Flow Metering Manhole.

(3) Drying Bins - There are 5 Drying Bins of approximately 40 cubic yards capacity that are used to store the material that is removed from the Decant Basin or Sump. Here the waste is further dewatered until it is placed in the Mixed Materials Storage Area. The flow meter controller is housed in a weather proof enclosure next to the manhole which allows the meter to be read without opening the enclosure.

(4) Screen - The screens' primary purpose is to prevent non-settleable materials in excess of 1" in size from flowing through the oil water separator and flow metering manhole. The screen can be removed and reinstalled with an overhead hoist or lifting equipment.

(5) Oil/Water Separator - The oil/water separator is a device that is installed to remove oil that may be discharged from the vector facility.

(6) Flow Metering Manhole - The flow metering manhole is used to measure flow leaving the facility. It consists of a Parshall flume flow meter assembly.

(7) Secondary Drying Bin

(8) Mixed Material Storage Area - The Mixed Material Storage Area has a capacity of approximately 2,000 cubic yards and is used to stockpile material which has sufficiently dewatered in the Decant Basin or Secondary Materials Drying Bins. Here the waste can be further dewatered, and if required mixed with absorbent materials. The finished product is stored until it is hauled away for reuse or landfill disposal. Typically the hauling of this material occurs on a regular basis. Based on historical data, total capacity of the facility is estimated at 4500 cubic yards.

(9) Driver's Shack

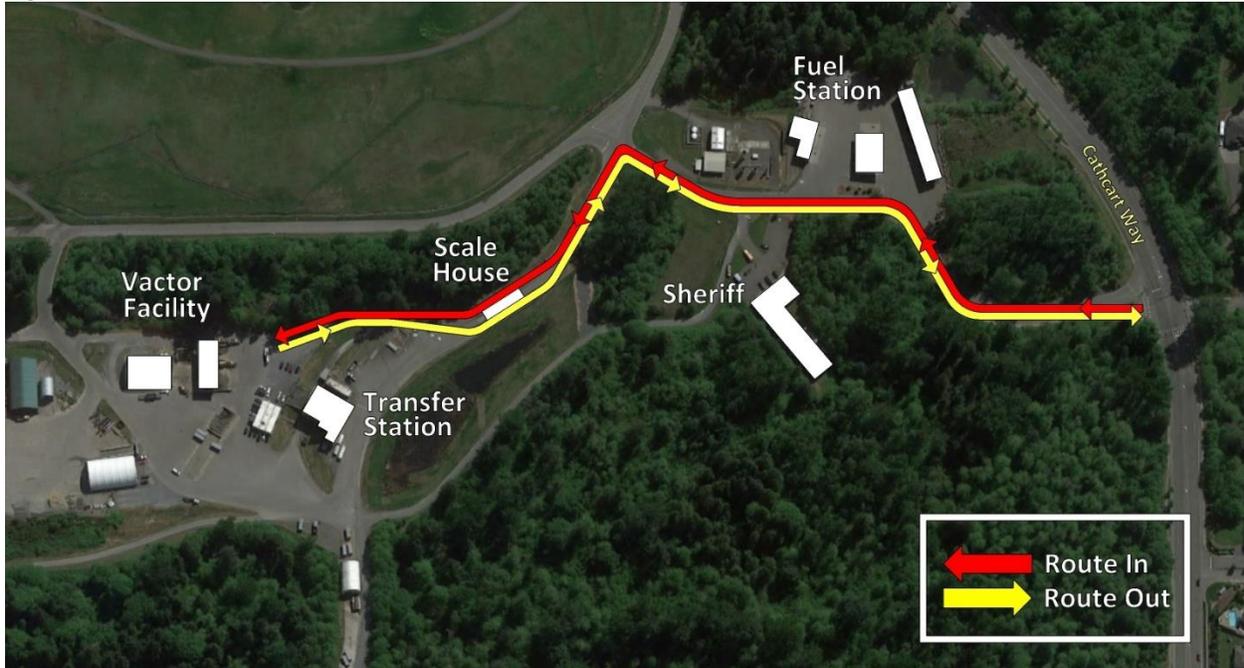
(10) Water Pump

(11) Truck wash area

4.1 Discharging Materials

- 1) Enter the property off Cathcart Way, follow signs to the vector waste decant facility. Customers must follow all posted safety signage and instructions when using the Snohomish County Vector Waste Decant Facility (*See Figure 4.1*).

Figure 4.1



- 2) Stop at stop sign and read facility instructions.
- 3) Back truck into "Area 1" near sumps and decant liquids into decant basin (*See Figure 4.2*). The vehicle discharging its load must back down the slope a sufficient distance to prevent splashing of wastes onto the asphalt pavement which lies uphill to the south.

Stop decanting if you notice pronounced odor of solvent or gasoline, rotten egg odor, significant oil sheen, unusual color, stormwater filter media, and/or anything that looks unusual and not typical of stormwater decant materials.

- 4) Maneuver truck into "Area 2" and dump remaining solids into the decant basin. When dumping solids, position the truck on the solids pad away from the pond so minimize the amount of sediment entering the pond and maximizes the capacity of the solids dump pad. Sufficient room exists within the decant basin to allow unloading without the solids from previous loads being washed towards the basin sump (*See Figure 4.3*).
- 5) Once the operator is finished discharging materials pull truck forward and wash down vehicle to remove material that may have attached itself during the unloading activities. The amount of water used should be minimal so as not to cause excess movement of the solids into area A. (*See Figure 4.4*).

- 6) Drive truck to “Area 3” (See Figure 4.5); complete a “Vector Facility Transaction” form and place it in the “inbox”. Be sure to provide information in all the boxes on the form.

Figure 4.2

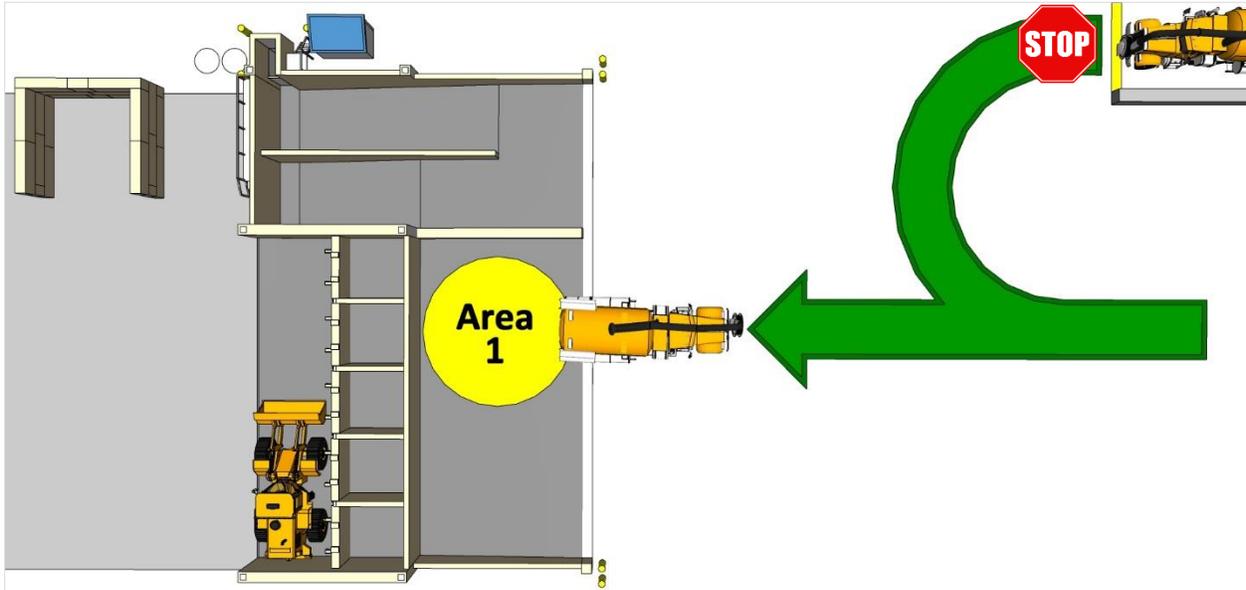


Figure 4.3

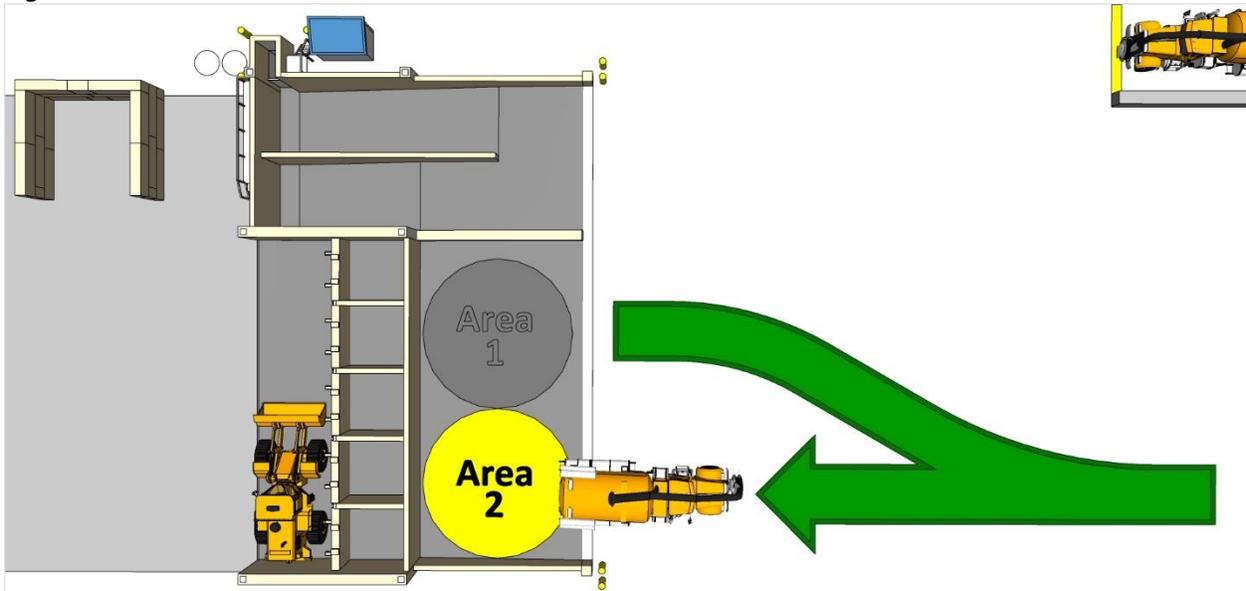


Figure 4.4

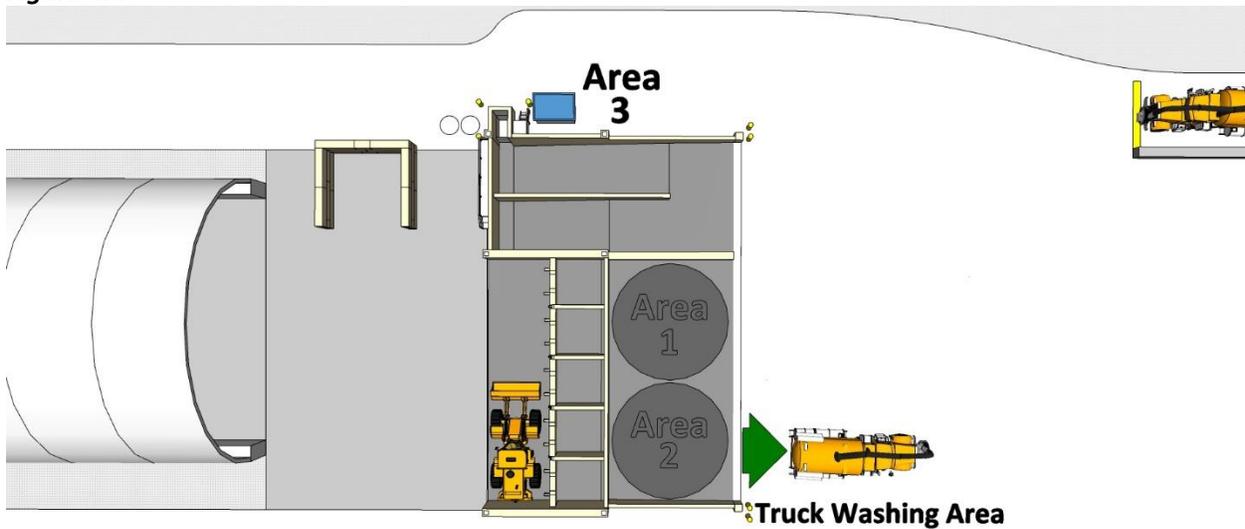
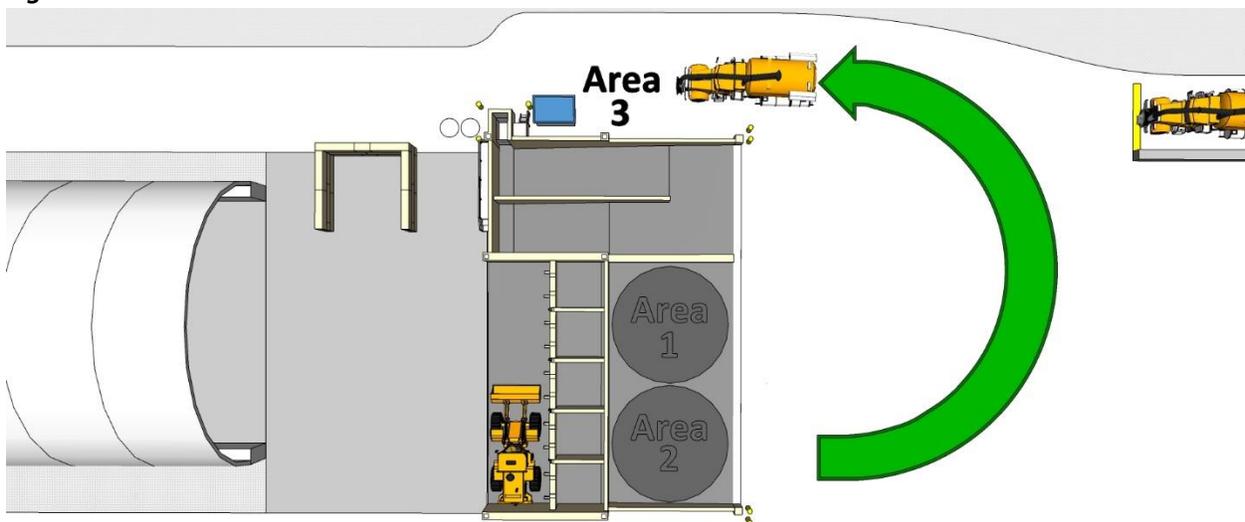


Figure 4.5



5.0 Safety

The Vector Waste Decant Facility contains potential occupational hazards that are similar to those present in industrial facilities such as working around heavy equipment and possible exposure to hazardous materials. Facility operators must take the necessary steps to protect themselves and others from known and unknown dangers at the facility. The following general safety guidelines must be followed by all customers and Solid Waste personnel when working at the Vector Waste Decant Facility:

- Comply with all applicable safety and health rules and follow all safe practices.
- Wear applicable personal protective equipment (PPE); do not wear torn or loose clothing.
- Do not remove, displace, destroy or carry off any safeguards, notices, or warnings.
- Do not interfere with any work practice designed to protect workers from injury.
- Do not engage in horseplay.

- Do not operate equipment unless you are authorized to use it.
- Non-essential personnel activities should be minimized during discharging and other activities associated with equipment movement within the facility.

5.1 Required Personal Protective Equipment

The following Personal Protective Equipment (PPE's) are required when performing work at the Vactor Waste Decant Facility:

- Safety Steel toe boots
- Heavy duty gloves
- High-visibility clothing
- Hard hat
- Safety glasses

5.2 Emergencies

If a seriously injured or request for care from professionals occurs, customers should call emergency services (911) immediately.

In the event of a hazardous material emergency or hazardous material spill, County personnel should contact the local Fire Department (911) for assistance before any attempts to mitigate the emergency. Customers will be asked to evacuate the area and clear the way for emergency vehicles to gain access to the site. When encountering a non-emergency spill that involves an odor in a concentration strong enough to cause you to leave the area or experience symptoms such as irritation to the eyes, nose, throat or respiratory system the subsequent procedure should be followed:

- Remove yourself and others immediately from the area until all are at a distance far enough away to alleviate effects of the exposure.
- A County representative will make an initial assessment and determine whether or not the area will continue to be isolated from operations and a call placed to emergency services.
- Do not attempt to move or otherwise disturb a pile or other area to search for the source of the exposure unless they are told to do so by a recognized authority.

6.0 Contact Information

Cathcart Way Operation Center
8915 Cathcart Way
Snohomish, WA 98296
Monday – Friday, 7:00am – 5:00pm

For more information about our acceptance policy or user agreement please contact:

Michael Smith
Michael.smith@snoco.org
(425) 388 – 7519

For more information about credit requests, rates, or vehicle registration, please contact:

Ciera Scown
Ciera.scown@snoco.org
(425) 388 – 7656

Mary Nichols
Mary.nichols@snoco.org
(425) 388 – 7649



Snohomish County
Solid Waste Division
