

Attachment 1
Operations Plan

Plan of Operation (R315-310-3(1)e and R315-302-2(2))

Description Of On-Site Waste Handling Procedures And An Example Of The Form That Will Be Used To Record The Weights Or Volumes Of Waste Received (R315-302-2(2)(b) And R315-310-3(1)(f))

All solid wastes deposited in the landfill will first cross a truck scale located adjacent to the scale house at the front gate. Haulers of the solid waste are divided into two categories by Washington County Landfill, Inc. as being either licensed or unlicensed. Commercial solid waste haulers are considered licensed haulers as they must obtain a license from Washington County Solid Waste Special Service District #1 to operate commercially in the landfill. The application that will be used by Washington County Solid Waste Special Service District #1 is contained in Attachment D of this permit application. Along with the application, each licensed hauler must submit proof of insurance with certification to Washington County, a copy of their current city or county business license, and their truck(s) number, serial number, body capacity, weight, and date of manufacture. Licensing is required of each commercial hauler annually.

All other solid waste haulers are classified as unlicensed. Included as unlicensed haulers are general contractors hauling construction and demolition materials and private citizens who haul their own trash and yard wastes.

Regardless of whether a solid waste hauler is classified as licensed or unlicensed, they are required to stop at the scale house and be weighed. Attachment E of this permit application contains a copy of a weigh ticket each hauler receives which is the basis for the assessment of the tipping fees.

A copy of the form used by Washington County Landfill, Inc. to track those loads hauled into the landfill by licensed and unlicensed haulers is presently contained in Attachment F of this permit application. When tires are brought to the landfill, the appropriate information is logged on a form for tracking and billing purposes. This form is also contained in Attachment E of this permit application.

After the initial stop at the scale house, the haulers of solid waste then proceed to the landfill site, and are directed to the active face by way of signing. As the haulers approach the working face of the landfill, they are further directed by the landfill spotter to a specific unloading location. As the waste material is off loaded, it is the spotter's responsibility to visually inspect the waste to determine the specific composition of the load being deposited. Provided at the landfill are 6 drop boxes to be used by residents of the district. These drop boxes are taken to the active face and off loaded. A camera is installed to monitor the activity at the drop boxes.

All waste material placed in the landfill cell is compacted to minimize air space usage and maximize unit weight. Waste is spread in lifts and compacted with a Cat D7 dozer and Cat 836 compactor to achieve maximum compaction.

At the end of each production day the solid waste placed in the landfill is covered with six inches of soil cover material or an Alternative Daily Cover (ADC). Following are the ADC's that may be utilized.

1. Compost

Compost may be used as an ADC when required.

The current daily cover needs are met by Alternative Daily Covers (ADCs) or the soil excavated from on-site. When either of these sources becomes inadequate, the importation of soil cover material from a nearby gravel crushing operation will be utilized. This operation procedure will continue through the next permit period.

The following special handling procedures apply for certain waste streams:

1. Odoriferous Wastes - All odoriferous wastes placed in the landfill cell are covered with six inches of cover material and/or ADC within the current work period or day's end.
2. Ash- All ash which presents a blowing concern will be covered with six inches of material and/or ADC within four hours after disposal of the waste in the unit before day's end. Water may be sprayed on the ash if required to control dust emissions during covering activities.

3. Bulky Wastes - The landfill is not utilized as an appliance or automobile junkyard. If these items are delivered to the landfill, they are removed and taken to a recycler.
4. Water Treatment or Wastewater Treatment Sludges, Non-Hazardous or Exempt Petroleum Contaminated Soils - Sludges including exempt petroleum contaminated soils, grease trap materials, oily water, and sand trap wastes that fail the Paint Filter Liquids Test method will be solidified/evaporated prior to their disposal in the landfill unit. Solidification methods include the addition of absorbent materials, after which the solidified wastes must pass the Paint Filter Liquids Test method before disposal. These solidified wastes are then placed on the working face and covered with other solid wastes or cover material. Sludges consisting of exempt petroleum contaminated soils may be used as daily cover. Sludges which are brought into the landfill shall be certified as non-hazardous by the generator. Analytical data may be required to certify waste as non-hazardous.

Generators/haulers of non-hazardous or exempt petroleum contaminated soils, water treatment or wastewater treatment sludges will be encouraged to solidify their sludges to ensure passage of the Paint Filter Liquids test prior to their placement in the landfill. However, the generator/hauler of these sludges may bring sludges which do not pass the Paint Filter Liquids test to the landfill for solidification and disposal. Upon arrival at the scale house, the gate keeper will verify certification as non-hazardous and direct the hauler to the Sludge Solidification Site. At this point a landfill operator will visually inspect the load prior to unloading to verify content. If it does not appear that the sludge will then pass the Paint Filter Liquids test, it will be distributed on the ground at the Sludge Solidification Site. The sludge will be placed on the solidification site by means of a tremie or flexible metal spout to allow for even distribution. As the sludge is being unloaded, the hauler will proceed under the direction of the operator at a speed which will minimize ponding of the liquids. Upon completion of unloading, all valves and external openings of the hauler's vehicle will be stopped prior to the hauler's departure from the Sludge Solidification Site. The sludge at the solidification site will be blended with native absorbent material until the sludge passes the Paint Filter Liquids test. The solidified sludges will then be placed at the landfill working face for disposal.

As liquids in delivered sludges are evaporated or absorbed into the surrounding soils, the dikes will be leveled. The impacted soils which made up the dikes and floor will be blended with other native absorbent material until the soil passes the Paint Filter Liquids test. The soils which pass this test may be stockpiled and used as a source of daily cover material.

5. Tires - It is the policy of Washington County Landfill, Inc. to have the landfill stockpile all tires brought into the landfill. Tires are removed from the site and delivered to a commercial recycler of tires.
6. Dead Animals - Animal carcasses received at the facility will be deposited onto the working face at or near the bottom of the cell with other solid waste, or into a separate disposal trench where they will be covered daily with a minimum of six inches of earth to prevent odors and the propagation and harborage of rodents and insects.

Schedule For Conducting Inspections And Monitoring, And Examples Of The Forms That Will Be Used To Record The Results Of The Inspections And Monitoring (R315-302-2(2)(c), R315-302-2(5)(a), And R315-310-3(1)(g))

Inspections of the facility will be conducted quarterly by Washington County Landfill, Inc. or its representative. The purpose of these inspections is to prevent any problems with the facility and to identify any deterioration of the facility and operator errors or malfunctions which may cause a release of wastes to the environment or threaten human health. The inspection logs will be kept at the facility in the scale house. Attachment G of this permit application is an example of the inspection log. All inspections will conform to subsection R315-302-2(5)(a) of the Solid Waste Permitting and Management Rules. The Washington County Landfill, Inc. inspection log program will consist of a summary of the following information:

1. Total Containment Evaporation Pond - Inspection of inlet and overflow structures for blockage, failure, and erosion. Inspection of rock-lined dikes and rock-lined drainage channel around the pond for potential erosion and washout. Inspection of lining systems for possible damage from men, equipment, root systems of surrounding vegetation, and burrowing animals will be conducted. Inspection of fence line and gates to ensure security of the total containment evaporation pond facility will be conducted. Inspection of containment dikes that lie below the pond will occur.
2. 18" Diameter Leachate Outfall Line - Inspection of manholes and outfall line for signs of blockage, leakage, or infiltration.
3. 12" Diameter Leachate Collection Line - Inspection of cleanouts and collection line for signs of blockage and failure. Should it be suspected that either has occurred to the collection line, a mandrel will be pulled through the suspected section to determine the extent and location of the damage.

4. Run-off Drainage Channel - Inspection of the lined channel and culverts for erosion and blockage.
5. Run-on Drainage Channel - Inspection of the rock-lined channel and culverts for erosion and blockage.
6. Perimeter Fencing and Access Gates - Inspection of fencing for breach of security and litter accumulation. Inspection of gates and other points of access for security and restriction of unauthorized access will be conducted.
7. Landfill Cell - Inspection of the active landfill face for placement and compaction of imported waste stream. Inspection of the access roads for settlement and stability and inspection of covered portions of the landfill cell for erosion and excessive settlement.

Contingency Plans In The Event Of A Fire Or Explosion (R315-302-2(2)(d))

Washington County Landfill, Inc. will implement various procedures to minimize and control fire, explosion, and release of explosive gases. Training for facility operations personnel will be provided. The procedures will include:

1. Washington County Landfill, Inc. will provide training to all facility employees regarding fire prevention and firefighting at the facility.
2. All supervisory personnel will maintain radio communication with personnel in the scale house and the Washington County Landfill, Inc. office. If required, the Washington County Landfill, Inc. office will contact the Washington City Fire Department for emergency assistance.
3. Dozers will be available to spread burning materials in the landfill so that water can be applied, to smother the burning material with non-ignitable material, or to build berms to contain the fire.
4. Stockpiled soil cover materials will be available in the vicinity to spread on burning materials.

5. All facility vehicles will contain a portable fire extinguisher which can be utilized to extinguish small fires.
6. A fire hydrant is located within 300 feet of the scale house. The hydrant is connected to a 36" water transmission line running through the landfill property. Water from this hydrant will be used to suppress fires.
7. In case off-site firefighting assistance is needed, the Washington City Fire Department will respond. The Washington City Fire Department should be able to respond to a fire within 15 minutes.

Corrective Action Programs To Be Initiated If Ground Water Is Contaminated (R315-302-2(2)(e))

In the event ground water contamination is detected, an appropriate remediation plan will be developed. The plan may include pumps placed in monitoring Well 1 and monitoring Well 2 with the intent of removing the perched water from the ground, therefore stopping transmission of the release. Water pumped from the monitoring wells will be land applied within the boundaries of the landfill facility where it will be evaporated. In the event that the perched aquifer is too large to practically draw down, pumping will continue until all constituents being analyzed are shown to be at or below established background values. This plan may be modified upon completion of investigations related to ground water contamination.

Contingency Plans For Other Releases, E.G. Explosive Gases Or Failure Of Run-Off Collection System (R315-302-2(2)(f))

In the event of a run-off containment system failure, the procedures for taking corrective action will include:

1. Washington County Landfill, Inc. will provide necessary training to facility employees regarding landfill emergency procedures.
2. All supervisory personnel will maintain radio communication with personnel in the scale house and the Washington County Landfill, Inc. office. The Washington County Landfill, Inc. office would then be able to contact the Washington County Emergency Management Personnel as required.

3. Dozers and compactors and other earth-moving equipment will be available to move earth material as necessary to seal off any breach to the run-off containment system until other permanent corrective measures can be taken.

In the event of a gas explosion, the procedures for taking corrective action will include:

1. Washington County Landfill, Inc. will provide necessary training to facility employees regarding landfill emergency procedures.
2. All supervisory personnel will maintain radio communication with personnel in the scale house and the Washington County Landfill, Inc. office. The Washington County Landfill, Inc. office would then be able to contact the Washington County Emergency Management Personnel as required.
3. Dozers and compactors and other earth-moving equipment will be available to move earth material as necessary to contain an emergency.

In the event of an overflow in the Total Containment Evaporation Pond, the procedures for taking corrective action will include:

1. Washington County Landfill, Inc. will provide necessary training to facility employees regarding landfill emergency procedures.
2. All supervisory personnel will maintain radio communication with personnel in the scale house and the Washington County Landfill, Inc. office. The Washington County Landfill, Inc. office would then be able to contact the Washington County Emergency Management Personnel as required.
3. Dozers and compactors and other earth-moving equipment will be available to move earth material as necessary to seal off any breach to the run-off containment system until other permanent corrective measures can be taken.
4. Contained waste water will be pumped into a water truck and returned to the Total Containment Evaporation Pond, solidified with on-site material and hauled to the landfill and used as daily cover, or taken to the local sewer district for disposal. Upon removal of the captured waste water, the affected native soil material will be removed and used for daily cover on the landfill cell.

5. Any damage to the Total Containment Evaporation Pond caused by the overflow will be repaired and the area will be restored to its original condition.

Plan To Control Fugitive Dust Generated From Roads, Construction, General Operations, And Covering The Waste (R315-302-2(2)(g))

It is Washington County Landfill, Inc. policy that all unpaved traveled roadways within the landfill facility are sprayed with water and that waste material be wetted or covered as necessary to control dust. Also, any solid waste material, such as ash, which presents a blowing concern, is covered with six inches of material or an ADC by the end of the day of disposal or water is sprayed on the waste material to control dust emissions. Air emissions will fall within state Air Quality Standards. Operator will log water truck loads.

Plan For Litter Control And Collection (R315-302-2(2)(h))

Wind-blown litter control will be performed by use of fencing, daily cover, and ADC. Litter collection will be performed by the Spotter at the active face and other landfill personnel as required. Fencing will be inspected for wind-blown litter as required to ensure containment and disposal of the litter materials.

Description Of Maintenance Of Installed Equipment (R315-302-2(2)(i))

Ground water monitoring equipment will be maintained in accordance with the landfill's groundwater monitoring plan and equipment manufacturers' instructions.

The current design of the leachate collection system and the contaminated run-off waters collection system operate in conjunction with the old system. The leachate collection system in the current and future cells consist of a network of leachate collection pipes and were sized to carry the anticipated leachate volumes over the life of the landfill. Each new cell has a sump and a riser for periodic extraction of leachate. The extracted leachate is recirculated back to the landfill. The old system which mainly served the old landfill, consists of a French drain that collects very little leachate from the old landfill and discharges into the Total Containment Evaporation Pond for evaporation. The Total Containment Evaporation Pond is lined with a membrane liner to prevent seepage of the leachates into the surrounding ground. Maintenance

of the leachate collection system in the lined cells is via a cleanout riser pipe installed along each sump riser and at the other end of the leachate pipe header as a second access point. The leachate pump in the sump is maintained and serviced regularly for proper and efficient operation. Maintenance of the channel system and the Total Containment Evaporation Pond will consist mainly of weed control.

Methane gas monitoring is performed quarterly using a hand-held probe. The hand-held probe is calibrated prior to each use by the gas sample collector. This will be done in conformance with the manufacturer's recommendations. The calibration of the probe will then be documented on the landfill gas quarterly monitoring results form. (See Attachment H of this permit application). Periodic inspection and repairs/replacements will be made to the LFG control system as necessary, including wellheads and collection piping system due to damage caused by accident, settlement, environmental factors and aging. Wellheads and casings will be adjusted vertically to conform to the surface elevation of the landfill. During each daily monitoring event at the blower-flare facility, all chart recorders should be checked for proper performance. Equipment performance should be observed during each facility visit. Condensate drain systems should be checked to make sure that they are functioning as designed. Condensate sumps and pumps should be serviced frequently.

Procedures For Excluding The Receipt Of Prohibited Hazardous Or PCB Containing Wastes (R315-302-2(2)(j))

Inspections of wastes for hazardous materials or waste containing PCBs will be performed at random or as deemed necessary by Washington County Landfill, Inc. A copy of the Random Load Inspection Record form is provided in Attachment I of this permit application. Although private individuals who haul only their personal solid waste are exempt, any load, private or commercial, suspected of containing hazardous materials or wastes containing PCBs will be subject to inspection.

The randomly inspected loads, as well as loads suspected of containing hazardous materials or wastes containing PCBs, will be off loaded at a predetermined inspection site. This inspection site will always be located away from the current working face of the landfill. Upon completion of the inspection Washington County Landfill, Inc. will remove the solid wastes passing inspection and place them at the working face of the landfill for burial. If inspection reveals that the load contains suspected hazardous materials or wastes containing PCBs the following measures will be taken by landfill personnel:

1. Immediately notify the Generator
2. Notify the Director of the DWMRC within 24 hours
3. Restrict the area from public access and from facility personnel
4. Assure proper cleanup, transport and disposal of the waste as per DWMRC recommendations

Inspection training of the landfill personnel will be performed by a qualified person from the landfill operator.

Extensive documentation will be maintained on special waste received. Individual files will be maintained for each generator. Each file will typically contain the following information:

1. Profile sheet
2. Appropriate analytical data
3. Correspondence with the generator

Procedures For Controlling Disease Vectors (R315-302-2(2)(k))

Various procedures are incorporated into the operation of the landfill to prevent, as much as possible, the transmittal of disease through disease vector control. Washington County Landfill, Inc. landfill operating procedures are intended to control disease vectors such as rodents, insects, and air borne particulates.

It is Washington County landfill, Inc. policy to keep the working face exposure to a minimum. In so doing, compaction efforts are maximized. Proper compacting procedures will help ensure not only the most effective use of available landfill space, but also reduces the likelihood of a rodent infestation.

To prevent an infestation of insects at the landfill, it is the policy of Washington County Landfill, Inc. to cover all odoriferous wastes with 6 inches of soil cover weekly.

A Plan For Alternative Waste Handling (R315-302-2(2)(l))

In the event that normal land filling operations are impeded or all together terminated through equipment breakdown or other unforeseen event, then an alternative location within the landfill

boundaries will be designated as a temporary handling and stockpiling facility. This alternative location will be as nearly adjacent to the existing working face as possible but maintaining sufficient distance for public safety. It is intended to use the ground which is currently approved for disposal of solid waste as a temporary stockpiling area first. However, should it become necessary to move off the approved site for the safety and general welfare of the public, the temporary stockpiling facility would then be located on ground which is proposed for the next unit to be constructed. As there are 500 acres within the sanitary landfill boundaries, it is unlikely that the occasion would arise that would require the complete closure of the landfill facility. In the event that the entire landfill facility was closed to public access due to a major catastrophe, then an alternative landfill site would need to be located for the temporary solid waste handling and stockpile facility as an emergency measure.

A temporary solid waste handling and stockpile facility would of necessity have to be versatile and mobile yet be conducive to securing the temporarily stockpiled solid waste from wind, salvagers, and animal scavengers. To construct such a facility, temporary fencing would be constructed along the perimeter of the proposed temporary stockpiling area. These fenced in areas could easily be enlarged or reduced in size as necessary to accommodate the expanding or reducing stockpile size. Sizing each individual stockpile area would be important in combating the effects of wind. In addition to securing the stockpiling area with fencing, it would also be necessary to channel and berm completely around the solid waste stockpiling area to protect the facility and surrounding area from run-on/run-off water and leachate.

After the working face of the existing landfill unit was re-established and was deemed safe to resume standard landfill operating practices, the solid waste which had previously been stockpiled at the temporary solid waste handling and stockpiling facility would then be transported to the landfill unit and deposited at the working face for compaction and burial. Upon completion of the removal of all the solid waste from the temporary stockpiling facility, the fencing would then be removed. Any impacted native soil would be removed and used as daily cover in the Washington County Landfill Facility. All run-on/run-off waters and leachate collected in the stockpiling area perimeter channel would then be pumped out and used as dust control at the landfill site. All channels would then be backfilled, all berms would be leveled, and the entire temporary stockpiling area would be scarified and contoured to its original condition.

A General Training And Safety Plan For Site Operations (R315-302-2(2)(o))

The manager of Washington County Landfill, Inc. will ensure that the required safety and training programs are conducted for the employees of the Washington County Landfill Facility. These topics will be taught from the Allied Waste Services Safety and Training Manual. A copy of the safety and training manual will be on file in the office of Washington County landfill, Inc. The order of training may change to suit the needs of the facility. All safety meetings and training will be documented by indicating the topic covered and main points discussed. Employees will be required to sign and date the appropriate forms.

Following is a list of the safety and training topics addressed, by month, over the course of the year.

<u>MONTH</u>	<u>TRAINING TOPICS</u>
January	Adverse Weather Hazardous Communication
February	Backing PPE – Conduct Hazardous Assessments, Industrial Truck Training Recertification for Forklift Operators
March	Push, Pull, Lift Lock Out/Tag Out Conduct Annual LOTO Documented Observations
April	Intersections/Pedestrians Accident Prevention Signs/Tags First Aid/CPR Training for Designated Employees
May	Heat Considerations Heat Stress Prepare Summer Safety Plans Load Inspections & Hazardous Waste identification

June	Backing Blood Borne Pathogens
July	Rear Collisions Emergency Response Training Fire Drill
August	Push, Pull, Lift Fire Extinguisher Training Hearing Conservation
September	Roll-Over Spill Prevention
October	Intersection Confined Spaces
November	Pedestrians Respiratory Protection Fall Protection Asbestos Safety Respirator Fit Tests
December	Drug and Alcohol Awareness

Any Recycling Programs Planned At The Facility (R315-303-4(6))

The Washington County Landfill Facility has programs to recycle metal and tires. A drop off area is provided for citizens to drop off recyclables.

A composting program has also been implemented at the landfill. The compost is produced by landfill personnel and sold to the public. If a surplus of compost is produced, the extra material may be used as an ADC. The landfill is also providing to the local communities a paint exchange program. Surplus paint is brought to the landfill by the public and exchanged for other paint. The public is not required to take paint with them when they drop off unused paint.

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FRUM WSH. COUNTY SLD WSHIE

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FORM # WWS12



SIGNATURE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL																												
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INSPECTION LOG

Washington County Landfill Facility

Name of Area Inspected	OK	Needs Repair	Comments
Total Containment Evaporation Pond			
18" Leachate Outfall Line			
12" Leachate Collection Line			
Run-off Drainage Channel			
Run-on Drainage Channel			
Perimeter Fencing and Access Gates			
Landfill Cell			
TIME:	DATE:	INSPECTOR:	SIGNATURE:

WASHINGTON COUNTY
 SOLID WASTE SPECIAL SERVICE DISTRICT NO. 1
 LANDFILL GAS QUARTERLY MONITORING RESULTS
 YEAR ____ QUARTER ____

Date: _____ Time: _____

Name of Gas Sample Collector _____

Temperature _____ Weather _____

Monitoring device should be calibrated prior to initiating sampling.
 Accomplished? Yes No

Methane Monitoring Location		Measured %LEL	Internal Action Limit: Half of Regulatory Limit (%LEL)	Regulatory Action Limit (%LEL)
1. NW Corner of the Scale House	Outside		12	25
	Inside		12	25
2. North Boundary			50	100
3. South Boundary			50	100
4. NW Corner of Treatment Pond			12	25
5. SW Corner of Composting Area			12	25

- **Gas Sample Collector:** If measured % LEL equals or exceeds internal action limit, contact the facility manager.
- **Facility Manager:** If measured % LEL equals or exceeds regulatory action limit, notify the State Director in compliance with 40 CFR 253.23(c).

Comments:

 Gas Sample Collector

WASHINGTON COUNTY SANITARY LANDFILL
Random Load Inspection Record

INSPECTION INFORMATION

Inspector's Name: _____
Date of Inspection: _____
Time of Inspection: _____
Facility Name: _____

TRANSPORTATION COMPANY INFORMATION

Name: _____
Address: _____

Phone Number: _____

VEHICLE INFORMATION

Driver's Name: _____
Vehicle Type: _____
Vehicle License Number: _____
Vehicle's Last Stop: _____
Vehicle Contents: _____

OBSERVATIONS AND ACTIONS TAKEN

Photo Documentation: Yes No

Driver's Signature*: _____ Date: _____

Inspector's Signature: _____ Date: _____

* Driver's signature hereon denotes: His presence during the inspection and does not admit, confirm or identify liability.

ALL DISTRICT EMPLOYEES PRESENT MUST SIGN BOTTOM OF FORM