



LIMITED PURPOSE LANDFILLS
 Checklist for Review of Solid Waste Permit Application
 per WAC 173-350-400

Name of Applicant:		Name of Facility:		
Permit # assigned by Health Department:		Date Received:		
Lead Agency Reviewer Name: Phone: Signature:		Determination of Compliance with: The Site or Facility: <input type="checkbox"/> meets all solid waste, air and other applicable laws and regulations <input type="checkbox"/> conforms with the approved comprehensive solid waste handling plan <input type="checkbox"/> complies with zoning requirements (JHD only)		
<input type="checkbox"/> Location requirements WAC 173-350-400(2)	Location of material	Complete	Meets Requirements	Date & Initials of Reviewer)
Demonstration that facility is not located over a Holocene fault (2)(a)		<input type="checkbox"/>	<input type="checkbox"/>	
Demonstration that facility is not located in a subsidence area (2)(a)		<input type="checkbox"/>	<input type="checkbox"/>	
Demonstration that facility is not located on or adjacent to an unstable slope or other geologic features which would compromise structural integrity of facility (2)(a)		<input type="checkbox"/>	<input type="checkbox"/>	
Demonstration that the active area is not within 1,000 feet of a down-gradient drinking water supply well <u>or</u> includes a demonstration that there is a minimum 90 day travel time for contaminant detection to nearest down-gradient drinking water supply well (2)(b)		<input type="checkbox"/>	<input type="checkbox"/>	
Demonstration that the active area is not located within a channel migration zone (2)(c)		<input type="checkbox"/>	<input type="checkbox"/>	
Demonstration that the active area is not within 200 feet of a stream, lake, pond, river or saltwater body (2)(c)		<input type="checkbox"/>	<input type="checkbox"/>	
Demonstration that active area is not located within a wetland nor any public land used by a public water system for watershed control for municipal drinking water purposes (2)(c)		<input type="checkbox"/>	<input type="checkbox"/>	
Demonstration that facility conforms to locally adopted shoreline management plan (2)(c)		<input type="checkbox"/>	<input type="checkbox"/>	
For facilities with potential bird hazards, demonstrate facility location requirements to airports per (2)(d) NA <input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Complies with the location standards specified in RCW 70.95.060		<input type="checkbox"/>	<input type="checkbox"/>	

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Agency Comments:				
<input type="checkbox"/> Design Standards WAC 173-350-400(3)	Location of material	Complete	Meets Requirements	Date & Initials of Reviewer)
The following factors need to be considered in evaluating the landfill design: (i) Waste characterization; (ii) Soil conditions; (iii) Hydrogeologic conditions; (iv) Hydraulic conditions; (v) Contaminant fate and transport; (vi) Topography; (vii) Climate; (viii) Seismic conditions; (ix) The total capacity of the facility and each landfill unit; (x) Anticipated leachate characteristics and quantity; (xi) Operational controls; and (xii) Environmental monitoring systems.				
Liner system design (3)(b)				
Liner system performance standard. Limited purpose landfills shall be constructed in accordance with a design that will(3)(b)(i): NA <input type="checkbox"/> if presumptive liner design per (3) (b)(v) is approved.		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> Prevent the contamination of the hydrostratigraphic units identified in the hydrogeologic assessment of the facility at the relevant point of compliance as specified during the permitting process 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> Prevent the migration of methane and other gases. 		<input type="checkbox"/>	<input type="checkbox"/>	
The JHD may allow a limited purpose landfill to be designed and constructed without a liner system if the owner or operator can demonstrate during the permitting process that (3)(b)(ii): NA <input type="checkbox"/> if liner system is used		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> The contaminant levels in the waste and leachate are unlikely to pose an adverse impact to the environment; 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> The ability of natural soils to provide a barrier or reduce the concentration of contaminants provides sufficient protection to meet the performance standards of WAC 173-350-040 		<input type="checkbox"/>	<input type="checkbox"/>	

<p>Liner separation from ground water. Bottom of the lowest component of the liner system is less than ten feet (three meters) above the seasonal high level of ground water <u>or</u> a hydraulic gradient control system has been installed which prevents ground water from contacting the liner. (3)(b)(iii)</p>		<input type="checkbox"/>	<input type="checkbox"/>	
<p>Hydraulic gradient control system performance standard. If hydraulic gradient control system is used: NA <input type="checkbox"/> Demonstration included that the hydraulic gradient control system can be installed to control ground water fluctuations and maintain separation between the controlled seasonal high level of ground water in the identified water-bearing unit and the bottom of the lowest liner system component. The demonstration shall include (3)(b)(iv):</p>		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • A discussion in the geologic and hydrogeologic site characterization showing the effects from subsoil settlement, changes in surrounding land uses, climatic trends or other impacts affecting ground water levels during the active life, closure and post-closure periods of the landfill; 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • A discussion showing potential impacts of the gradient control operation to existing quality and quantity of ground water or surface waters. This discussion shall include potential impacts to water users and instream flow and levels of surface waters in direct hydrologic contact or continuity with the hydraulic gradient control system. Any currently available ground or surface water quality data for aquifers, springs, or surface waters in direct hydrologic contact or continuity with the hydraulic gradient control system shall be included; 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • Conceptual engineering drawings of the proposed landfill and a discussion as to how the hydraulic gradient control system will protect or impact the structural integrity and performance of the liner system 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • Preliminary engineering drawings of the hydraulic gradient control system 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • Design specifications for the proposed ground and surface water monitoring systems; 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • A discussion of the potential impacts from the gradient control system on the capability of collecting ground water samples that will represent the quality of ground water passing the relevant point of compliance 		<input type="checkbox"/>	<input type="checkbox"/>	

<p>Presumptive liner design. Limited purpose landfills designed and constructed with the following composite liner are presumed to meet the performance standard of WAC 173-350-400(3)(b)(i). An alternative liner system design shall be used when the nature of the waste, the disposal site, or other factors are incompatible with the presumptive liner. The presumptive liner design consists of the following two components (3)(b)(v):</p>		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • A lower component consisting of at least a two-foot layer of compacted soil with a hydraulic conductivity of no more than 1×10^{-7} cm/sec. 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • An upper component consisting of a high-density polyethylene (HDPE) geomembrane with a minimum of 60-mil thickness. The geomembrane shall be installed in direct and uniform contact with the lower component. 		<input type="checkbox"/>	<input type="checkbox"/>	
<p>Leachate collection and control system design. Except as provided in (b)(ii) of this section, limited purpose landfills shall be constructed in accordance with a design that (3)(c):</p>		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • Provides for collection and removal of leachate generated in the landfill 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • Is capable of maintaining less than a one-foot head of leachate over the liner system and less than a two-foot head in leachate sump areas 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • Includes a monitoring system capable of collecting representative samples of leachate generated in the landfill; and 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • Provides for leachate storage, treatment, or pretreatment to meet the requirements for permitted discharge under chapter 90.48 RCW, Water pollution control, and the Federal Clean Water Act. 		<input type="checkbox"/>	<input type="checkbox"/>	
<p>Run-on/runoff control system design. Limited purpose landfills shall be constructed in accordance with a design that (3)(c):</p>		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • Will prevent flow onto the active portion of the landfill during the peak discharge from a twenty-five-year storm, as defined in WAC 173-350-100; 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • Will prevent unpermitted discharges from the active portion of the landfill resulting from a twenty-five-year storm, as defined in WAC 173-350-100; 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • When located in a one hundred-year floodplain, the entrance and exit roads, and landfill practices do not restrict the flow of the base flood, reduce the temporary water storage capacity of the floodplain or result in washout of solid waste, to pose a hazard to human life, wildlife, land or water resources. 		<input type="checkbox"/>	<input type="checkbox"/>	
<p>Final closure system design (3)(e)</p>				

Final closure performance standard. Limited purpose landfills shall be closed in accordance with a design that (3)(e)(i):		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> Prevents exposure of waste NA <input type="checkbox"/> if presumptive final closure cover is approved		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> Minimizes infiltration (at a minimum, the design will prevent the generation of significant quantities of leachate to eliminate the need for leachate removal by the end of the post-closure period) NA <input type="checkbox"/> if presumptive final closure cover is approved		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> Prevents erosion from wind and water NA <input type="checkbox"/> if presumptive final closure cover is approved		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> Is capable of sustaining native vegetation NA <input type="checkbox"/> if presumptive final closure cover is approved		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> Addresses anticipated settlement, with a goal of achieving no less than two to five percent slope after settlement NA <input type="checkbox"/> if presumptive final closure cover is approved		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> Provides sufficient stability and mechanical strength and addresses potential freeze-thaw and desiccation; 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> Provides for the management of run-on and runoff, preventing erosion or otherwise damaging the closure cover 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> Minimizes the need for post-closure maintenance 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> Provides for collection and removal of methane and other gases generated in the landfill. Landfill gas shall be purified for sale, used for its energy value, or flared when the quantity and quality of landfill gases will support combustion. Landfill gases may be vented when they will not support combustion. The collection and removal system shall include a monitoring system capable of collecting representative samples of gases generated in the landfill; and 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> Meets the requirements of regulations, permits and policies administered by the jurisdictional air pollution control authority or the department under chapter 70.94 RCW, Washington Clean Air Act and Section 110 of the Federal Clean Air Act. 		<input type="checkbox"/>	<input type="checkbox"/>	

<p>Presumptive final closure cover. Limited purpose landfills designed and constructed with the following closure cover are presumed to meet the performance standards in (e)(i)(A) through (D) of this subsection. An alternative final closure cover shall be used when the nature of the waste, the disposal site or other factors are incompatible with the presumptive final closure cover system. The presumptive final closure cover consists of the following components (3)(e)(ii):</p>		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> An antierosion layer consisting of a minimum of two feet (60 cm) of earthen material of which at least twelve inches (30 cm) of the uppermost layer is capable of sustaining native vegetation, seeded with grass or other shallow rooted vegetation; and 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> A geomembrane with a minimum of 30-mil (.76 mm) thickness, or a greater thickness that is commensurate with the ability to join the geomembrane material and site characteristics such as slope, overlaying a competent foundation. 		<input type="checkbox"/>	<input type="checkbox"/>	
<p>Water balance and ground water contaminant fate and transport modeling. Any modeling performed for evaluating a landfill design shall meet the following performance standards (3)(f):</p>		<input type="checkbox"/>	<input type="checkbox"/>	
<p>All water balance analysis shall be performed using:</p>		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> The Hydrologic Evaluation of Landfill Performance (HELP) Model; or 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> Alternate methods approved by the jurisdictional health department. Alternate methods shall have supporting documentation establishing its ability to accurately represent the water balance within the landfill unit. 		<input type="checkbox"/>	<input type="checkbox"/>	
<p>Any ground water and contaminant fate and transport modeling shall be conducted by a licensed professional in accordance with the requirements of chapter 18.220 RCW and meet the following performance standards:</p>		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> The model shall have supporting documentation that establishes the ability of those methods to represent ground water flow and contaminant transport under the conditions at the site; 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> The model shall be calibrated against site-specific field data 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> A sensitivity analysis shall be conducted to measure the model's response to changes in the values assigned to major parameters, specific tolerances, and numerically assigned space and time discretizations; 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> The value the model's parameters requiring site-specific data shall be based upon actual field or laboratory measurements; <u>and</u> 		<input type="checkbox"/>	<input type="checkbox"/>	

<ul style="list-style-type: none"> The values of the model's parameters that do not require site-specific data shall be supported by laboratory test results or equivalent methods documenting the validity of the chosen parameter values. 		<input type="checkbox"/>	<input type="checkbox"/>	
<p>Seismic impact zones. Limited purpose landfills located in seismic impact zones shall be designed so that all containment structures, including liners, leachate collection systems, surface water control systems, gas management, and closure cover systems are able to resist the maximum horizontal acceleration in lithified earth materials for the site (3)(g)</p>		<input type="checkbox"/>	<input type="checkbox"/>	
<p>Demonstration in unstable area. The owner or operator of limited purpose landfills located in an unstable area shall demonstrate that engineering measures have been incorporated into the landfill's design to ensure that the integrity of the structural components of the landfill will not be disrupted. The owner or operator shall place the demonstration in the application for a permit. The owner or operator shall consider the following factors, at a minimum, when determining whether an area is unstable (3)(h): NA <input type="checkbox"/></p>		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> On-site or local soil conditions that may result in significant differential settling 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> On-site or local geologic or geomorphologic features; <u>and</u> 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> On-site or local human-made features or events (both surface and subsurface). 		<input type="checkbox"/>	<input type="checkbox"/>	
<p>Setback. Limited purpose landfills shall be designed to provide a setback of at least one hundred feet between the active area and the property boundary. The setback shall be increased if necessary to (3)(i):</p>		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> Control odors, dust, and litter 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> Provide a space for the placement of monitoring wells, gas probes, run-on/runoff controls, and other design elements; or 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> Provide sufficient area to allow proper operation of the landfill and access to environmental monitoring systems and facility structures. 		<input type="checkbox"/>	<input type="checkbox"/>	
<p>Agency Comments:</p>				
<p><input type="checkbox"/> Plan of operations <i>WAC 173-350-400(4)(f)</i></p>	<p>Location of material</p>	<p>Complete</p>	<p>Meets Requirements</p>	<p>Date & Initials of Reviewer)</p>

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Description of types of solid waste to be handled at the facility (4)(f)(i)		<input type="checkbox"/>	<input type="checkbox"/>	
Description of how solid waste are to be handled on-site during its active life including (4)(f)(ii):		<input type="checkbox"/>	<input type="checkbox"/>	
• The acceptance criteria that will be applied to the waste		<input type="checkbox"/>	<input type="checkbox"/>	
• Procedures for ensuring only the waste described will be accepted		<input type="checkbox"/>	<input type="checkbox"/>	
• Procedures for handling unacceptable wastes		<input type="checkbox"/>	<input type="checkbox"/>	
• Unloading and staging areas, transportation, routine filling, compaction, grading, cover or other vector controls, and housekeeping		<input type="checkbox"/>	<input type="checkbox"/>	
A description of how equipment, structures and other systems, including leachate collection, gas collection, run-on/runoff controls, and hydraulic gradient control systems, are to be inspected and maintained, including the frequency of inspection and inspection logs (4)(f)(iii)		<input type="checkbox"/>	<input type="checkbox"/>	
Safety and emergency plans including (4)(f)(iv):		<input type="checkbox"/>	<input type="checkbox"/>	
• Procedures for fire (including subsurface fires) prevention, a description of fire protection equipment available on-site and actions to take if there is a fire or explosion		<input type="checkbox"/>	<input type="checkbox"/>	
• Actions to take if leaks are detected or for other releases, such as failure of runoff containment system, if such systems are required		<input type="checkbox"/>	<input type="checkbox"/>	
Forms for recording weights and volumes (4)(f)(v)		<input type="checkbox"/>	<input type="checkbox"/>	
Other such details to demonstrate that the landfill will be operated in accordance with subsection (4) and as required by the jurisdictional health department (4)(f)(vi)		<input type="checkbox"/>	<input type="checkbox"/>	
Agency Comments:				
<input type="checkbox"/> Ground Water Monitoring <i>WAC 173-350-400(5)</i>	Location of material	Complete	Meets Requirements	Date & Initials of Reviewer)
Limited purpose landfills are subject to the ground water monitoring requirements of WAC 173-350-500. (Use Form ECY 040-86 (Ground Water Monitoring Requirements Checklist for review)		<input type="checkbox"/>	<input type="checkbox"/>	
Agency Comments:				
<input type="checkbox"/> Closure plan <i>WAC 173-350-400(6)(d)</i>	Location of material	Complete	Meets Requirements	Date & Initials of Reviewer)

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A description of the final closure cover, designed in accordance with WAC 173-350-400(3)(e), the methods and procedures to be used to install the closure cover, sources of borrow materials for the closure cover, and a schedule or description of the time required for completing closure activities (6)(d)(i)		<input type="checkbox"/>	<input type="checkbox"/>	
Projected time intervals at which sequential partial closure and final closure are to be implemented (6)(d)(ii)		<input type="checkbox"/>	<input type="checkbox"/>	
A description of the activities and procedures that will be used to ensure compliance with WAC 173-350-400(6) (a)-(g):		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> The owner or operator shall notify the jurisdictional health department, and where applicable, the financial assurance instrument provider, one hundred eighty days in advance of closure of the facility, or any portion thereof. The facility, or any portion thereof, shall close in a manner that 		<input type="checkbox"/>	<input type="checkbox"/>	
Minimizes the need for further maintenance		<input type="checkbox"/>	<input type="checkbox"/>	
Controls, minimizes, or eliminates threats to human health and the environment from post-closure escape of solid waste constituents, leachate, landfill gases, contaminated runoff, or waste decomposition products to the ground, ground water, surface water, and the atmosphere; and		<input type="checkbox"/>	<input type="checkbox"/>	
Prepares the facility, or any portion thereof, for the post-closure period		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> The owner or operator shall commence implementation of the closure plan in part or whole within thirty days after receipt of the final volume of waste and/or attaining the final landfill elevation at part of or at the entire landfill as identified in the approved facility closure plan unless otherwise specified in the closure plan. 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> The owner or operator shall not accept waste, including inert wastes, for disposal or for use in closure except as identified in the closure plan approved by the jurisdictional health department. 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> The owner or operator shall develop, keep, and abide by a closure plan approved by the jurisdictional health department as part of the permitting process. 		<input type="checkbox"/>	<input type="checkbox"/>	

<ul style="list-style-type: none"> The owner or operator shall submit final engineering closure plans, in accordance with the approved closure plan and all approved amendments, for review, comment, and approval by the jurisdictional health department. 		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> When landfill closure is completed in part or whole, the owner or operator shall submit the following to the jurisdictional health department: 		<input type="checkbox"/>	<input type="checkbox"/>	
Landfill closure plan sheets signed by a professional engineer registered in the state of Washington and modified as necessary to represent as-built changes to final closure construction for the landfill, or a portion thereof, as approved in the closure plan; and		<input type="checkbox"/>	<input type="checkbox"/>	
Certification by the owner or operator, and a professional engineer registered in the state of Washington, that the landfill, or a portion thereof has been closed in accordance with the approved closure plan.		<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> The owner or operator shall record maps and a statement of fact concerning the location of the disposal site as part of the deed with the county auditor not later than three months after closure. 		<input type="checkbox"/>	<input type="checkbox"/>	
Identify closure cost estimates and projected fund withdrawal intervals for the associated closure costs, from the approved financial assurance instrument (6)(d)(iv)		<input type="checkbox"/>	<input type="checkbox"/>	
Agency Comments:				
<input type="checkbox"/> Post-closure plan WAC 173-350-400(7)(b)	Location of material	Complete	Meets Requirements	Date & Initials of Reviewer)
Addresses facility maintenance and monitoring activities for at least a twenty-year period or until the landfill becomes stabilized (i.e., little or no settlement, gas production or leachate generation), and monitoring of ground water, surface water, gases and settlement can be safely discontinued (7)(b)(i)		<input type="checkbox"/>	<input type="checkbox"/>	
Projects time intervals at which post-closure activities are to be implemented (7)(b)(ii)		<input type="checkbox"/>	<input type="checkbox"/>	

Identifies post-closure cost estimates and projected fund withdrawal intervals from the selected financial assurance instrument, where applicable, for the associated post-closure costs (7)(b)(ii) NA <input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Agency Comments:				
<input type="checkbox"/> Financial Assurance Requirements <i>WAC 173-350-400(8)</i>	Location of material	Complete	Meets Requirements	Date & Initials of Reviewer)
Financial assurance is required for all limited purpose landfills		<input type="checkbox"/>	<input type="checkbox"/>	
Each owner or operator shall establish a financial assurance mechanism in accordance with WAC 173-350-600 that will accumulate funds equal to the closure and post-closure cost estimates over the life of the landfill, or over the life of each landfill unit if closed discretely.		<input type="checkbox"/>	<input type="checkbox"/>	
No owner or operator shall commence or continue disposal operations in any part of a facility subject to this section until a financial assurance instrument has been provided for closure and post-closure activities in conformance with WAC 173-350-600.		<input type="checkbox"/>	<input type="checkbox"/>	
Agency Comments:				