



January 4, 2017

Reference No. 088877

Mr. Allan Leuschen
Senior Environmental Protection Officer
Authorizations – South
Environmental Protection Division
Ministry of Environment

Dear Mr. Leuschen:

**Re: Compliance Checklist
Landfill Criteria for Municipal Solid Waste - Second Edition (June 2016)
Upland Landfill Waste Discharge Application
Upland Excavating, Campbell River, BC**

1. Introduction

GHD Limited (GHD) is submitting this letter to the Ministry of Environment (MOE) on behalf of Upland Excavating Ltd. (Upland) in support of the Waste Discharge Application (Application) for the Upland Landfill (Landfill) submitted on May 27, 2016. The Application is filed under Tacking Number 335965 and Authorization Number 107689.

The following technical reports were submitted in support of the Application:

- Technical Assessment Report
- 2016 Design, Operations, and Closure Plan
- Hydrogeology and Hydrology Characterization Report
- 2016 Geotechnical Investigation

The MOE submitted a letter to GHD, dated October 6, 2016, requesting additional information related to the Application. GHD responded with a proposed approach and timeline in a letter dated December 7, 2016. This letter has been prepared in accordance with GHD's letter, dated December 7, 2016, to address Item 2 of the MOE's additional information request requesting a review of the technical reports based on the Landfill Criteria for Municipal Solid Waste – Second Edition, dated June 2016 (Landfill Criteria).

2. Compliance Checklist Methodology

GHD has completed a compliance review to compare the technical reports submitted May 27, 2016 with the Landfill Criteria which was finalized in June 2016. The technical reports were prepared referencing the draft version of the Landfill Criteria. There were no significant revisions to the Landfill Criteria between the draft and final versions.



GHD developed the compliance checklist, provided in Attachment A, based on the criterion in the Landfill Criteria. The reports were evaluated against the criteria. Five evaluation categories were developed as follows:

- **Compliant** – The criterion is satisfied
- **Not Addressed** – Not addressed in the technical reports submitted, however, the criterion will be addressed in the future (for example: construction reports will be completed after construction).
- **Exempt** – Based on site conditions and/or operations the Landfill is deemed exempt from a criterion based on the Qualified Professionals judgment (for example: the Landfill is exempt from the requirement to install a bear fence as no putrescible waste will be accepted)
- **Non-Compliant** – A criterion is not satisfied, will not be satisfied in the future under current plans, and no technical justification is provided.
- **Not Applicable** – Criterion does not apply to this site or type of landfill (for example: no surface water will be discharged from the Landfill to a surface water body)

3. Compliance Checklist Review Conclusions

The attached compliance checklist presents the results of GHD's review. GHD concludes that the technical reports are substantially compliant with Landfill Criteria. A number of criterion have been identified as not addressed that will be addressed during detailed design, construction, operation, annual reporting, and post-closure of the Landfill. Based on GHD's review, no criterion has been categorized as non-compliant.

We trust this submission will provide the additional information requested regarding the compliance with the Landfill Criteria. Should you have any questions or require further information regarding the submission please do not hesitate to contact the undersigned.

Sincerely,

GHD

Gregory D. Ferraro, P.Eng.
SS/sz/02

Shauna Sturgeon, B.Sc.Eng.

Encl.

cc: Terry Stuart – Upland Excavating Ltd.
Mark Stuart – Upland Excavating Ltd.
Brian Fagan – Upland Excavating Ltd.

Attachment A Compliance Checklist

Compliance Checklist
Landfill Criteria for Municipal Solid Waste - Second Edition (June 2016)
Upland Landfill - Waste Discharge Application
Upland Excavating Ltd, Campbell River, BC

	Second Edition Landfill Criteria for Municipal Solid Waste (June 2016)	Compliant	Not Addressed	Exempt	Non Compliant	Not Applicable	Comments
3	Siting Criteria						
3.1	>500 m from an existing or planned sensitive land use (schools, residences, hotels, restaurants, cemeteries, food processing facilities, churches and					x	Existing Site. Landfill located in base of existing aggregate pit.
3.2	>100 m from a heritage or archaeological site (see also BC Heritage Conservation Act)					x	Existing Site. Landfill located in base of existing aggregate pit.
3.3	>8.0 kilometers from an airport (may be reduced to 3.2 km with bird control and approval)					x	Existing Site. Landfill will not receive petrucible waste, there birds will not be attracted to waste.
3.4	>50 m from limit of waste (discharged MSW) to the property boundary	x					
	30 m closest to the landfill site boundary shall be reserved for natural or landscaped screening	x					
3.5	>300 m of a regular capacity water intake	x					
	>500 m of a high capacity water intake	x					
3.6	A landfill shall not be located in a depression which acts as a point of water collection during rainfall events (unless acceptable diversion works are provided)	x					Surface water diversion swale will prevent runoff from landfill outside of aggregate pit running onto Landfill
3.7	>100 m from a geologically unstable area	x					
3.8	>100 m of an environmentally sensitive area (park, wildlife management area, critical wildlife area or wildlife sanctuary, BC Wildlife Act Section 3 land, an ecological reserve, bird sanctuary, Federal Wildlife Act wildlife area, a marine sanctuary, a wetland, habitat of rare, threatened or endangered species, etc.)	x					
3.9/11	>100 m from a surface water body, including sea level maximum high tide or seasonal high watermark of an inland lake shoreline.	x					
3.1	Not located in a flood plain	x					Not in a flood plain
3.12	>1.5 m above groundwater at all times	x					
4	Performance Criteria						
4.1	Groundwater and Surface Water Quality						
	Identify current and planned future uses of groundwater and surface water within 1 km of the landfill footprint	x					Identified current uses
	QP must recommend appropriate water quality criteria and compliance locations which must be approved in writing by the director	x					To be provided as part of final EMP
	Ground or surface water quality must not decrease beyond that recommended by a QP for the Landfill at the landfill boundary or 150 m from the landfill	x					The approved ground water quality criteria will be met at the property boundary
	Discharges to surface water considered as fish habitat must comply with the requirements of the federal Fisheries Act					x	No discharge to surface water
4.2	Landfill Gas Management						
	Soil gas concentrations at the landfill site boundary shall not exceed the CH4 LEL	x					
	Combustible gas concentrations in Site buildings <20% of CH4 LEL (1% v/v).	x					
	LFG shall be managed in accordance with the following objectives and standards:						
	migration	x					
	H&S	x					
	LFG emissions shall be meet the following standards:						
	federal	x					
	provincial	x					
	local ambient air quality	x					
	Landfills with >100,000 tonnes of waste in place, or receiving > 10,000 tonnes/yr shall submit a LFG Generation Assessment Report	x					A preliminary Landfill Gas Generation Assessment is included in the DOCP with forecasted waste characteristics to estimate forecasted landfill gas generation rates
	Landfills generating greater than 1,000 tonnes CH4/yr shall:						
	prepare a LFG Management Facilities Design Plan					x	Current LFG generation forecast <1,000 tonnes CH4/yr
	have LFG Management system in place four years after The LFG Facilities Design Plan submission					x	Current LFG generation forecast <1,000 tonnes CH4/yr
	LFG management systems are to be designed to maintain 75% collection efficiency as determined by the MOE Gas Generation Model					x	Current LFG generation forecast <1,000 tonnes CH4/yr
4.3	Nuisance						
	A landfill shall be operated to prevent public nuisances e.g. noise, dust, litter, vectors or wildlife attraction	x					
5	Design Criteria						
5.1	Service Life and Contaminating Lifespan						
	Landfill facilities design service life shall exceed the contaminating lifespan	x					Contaminating lifespan is less than the landfill infrastructure performance life

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5.2	Site Layout						
	Site layout shall:						
	take into consideration groundwater flow direction and surface water infiltration and discharge points	x					
	minimize potential for leachate and LFG impacts off-site	x					
	provide for site entrance, gatehouse, material recovery/recycling area, structures, access roads, landfill footprint, surface water ditching and management ponds, LFG management infrastructures (if applicable)	x					
5.3	Landfill Base Design						
	A QP geologic inspection shall be completed prior to placement and construction of landfill base liner system		x				Landfill cell construction to be inspected by QP.
	The landfill base shall:						
	serve as an adequate foundation for construction of a landfill base liner and leachate collection system	x					
	be placed on stable soil or rock	x					
	be > 1.5 m above groundwater at all times	x					
	not be subject to consolidation that could result in differential settlement	x					
	provide for >2% primary drainage path slope (leachate collection piping)	x					
	provide for >0.5% secondary drainage path slope (drainage blanket)	x					
	provide for max 50 m drainage blanket drainage path length (to leachate collection pipe)	x					
5.4	Landfill Base Liner						
	Landfill base liner shall consist of:						
	a primary liner HDPE geomembrane liner	x					
	a secondary compacted clay or Geosynthetic Clay liner	x					
	QA/QC on liner install shall be conducted consisting of:						
	continuous inspection by QP		x				To be addressed during construction
	non-destructive leak testing of each seam		x				To be addressed during construction
	post backfill leak detection survey of HDPE geomembrane		x				To be addressed during construction and commissioning
	The HDPE geomembrane shall meet the following minimum requirements						
	>1.5mm thickness	x					
	>100 yr liner service life	x					
	meet or exceed industry standard QA/QC		x				To be addressed during construction
	texture & asperity shall be designed to provide stability in all circumstances including earthquake		x				To be addressed during detailed design
	The secondary clay liner shall:						
	consist of a compacted clay liner or GCL with equivalent performance	x					Design includes GCL with equivalent performance
	be composed of >25% clay and >60% silt and clay by weight	x					Design includes GCL with equivalent performance
	> 750 mm compacted thickness perpendicular to slope (If secondary)	x					Design includes GCL with equivalent performance
	<1x10 ⁻⁷ cm/sec compacted hydraulic conductivity	x					Design includes GCL with equivalent performance
	>0.1% organic carbon content	x					Design includes GCL with equivalent performance
	remain stable when exposed to leachate (clay structure and permeability)		x				To be addressed during detailed design. Specific GCL will be compatible with expected landfill leachate

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5.5	Leachate Collection System (LCS)						
	Landfills shall have a LCS above the geomembrane liner	x					
	the LCS shall be:						
	constructed in accordance with approved Leachate Management Plan		x				To be addressed during construction
	installed with QP oversight and continuous QA/QC inspection by QP		x				To be addressed during construction
	managed in accordance with the approved Leachate Management Plan		x				To be addressed during operation
	designed to maintain a leachate head of <0.3 m at any point on the landfill base liner	x					
	Shall be constructed of the following (or alternative with equivalent hydraulic conductivity and mechanical protection):						
	a non-woven geotextile installed on top of geomembrane liner (placed prior to placement of stone to protect against puncture)	x					
	a drainage blanket consisting of continuous 0.3 m thick, 50 mm diameter chemically inert clear stone with minimal fines or equivalent	x					
	an engineered filter layer above stone drainage blanket	x					
	leachate collector pipes consisting of:						
	perforated or slotted HDPE collector pipes placed within drainage blanket at < 15 m lateral spacing between pipes and with < 50 m drain path	x					
	pipes sized to handle leachate flows based on site-specific leachate generation calculations but always >150 mm diameter	x					
	pipes with wall thickness designed based on site specific loading from waste and final cover loads		x				To be addressed in detailed design
	> 2% collector pipe slope along primary leachate flow paths	x					
	cleanouts at each end of leachate collector pipes	x					
	collection header and sump to collect leachate from collector pipes	x					
	Steps shall be taken to prevent entry of air into collector pipes during operation		x				To be addressed during construction
5.6	Surface Water (SW) Management Works						
	Surface water management works shall:						
	be designed and constructed in accordance with SWMP	x					
	be completed prior to commencement of landfill site operations	x					
	direct/convey SW runoff away from the active operation to minimize surface water contact with waste	x					
	prevent surface water run-on onto the landfill footprint	x					
	minimize potential for on-site erosion	x					
	minimize potential for downstream sediment loading	x					
	control peak flow to prevent downstream flooding					x	No surface water flow to downstream locations water bodies
	be designed based on hydrogeologic modeling of 5-, 10- and 100- year design storm events	x					
	include implementation of appropriate erosion control measures to prevent erosion of banks and landfill side slopes (e.g. hydroseeding, erosion control blankets and straw wattle)	x					
	promote settling of sediment	x					
	promote infiltration of retained storm water for groundwater recharge	x					
	have low flow control structures and high flow overflow spillways for all SW ponds					x	Overflow spillway or low flow control structures not required in surface water infiltration areas as they do not outlet to surface water bodies.
	have ditches and retention ponds designed for the control and retention of a 1:100-year, 24-hour storm events	x					
	be designed to account for additional water from snow melt and prolonged multi-day precipitation events		x				Multi-day precipitation events to be included in final surface water model in final DOCP
	treat SW runoff generated from active areas of the landfill as leachate	x					
	include ditches armored with appropriate erosion protection for expected flows	x					
	not have ditches sloped <1%	x					Addressed in Table 8.5
	be designed such that no flow reversals develop in ditches due to localized settlement	x					
	have erosion control measures to prevent active erosion of channel slopes and surfaces that contribute to runoff	x					
	Mid-slope drainage ditches/swales shall be constructed on final cover surfaces as required to prevent erosion of cover soil. Recommended spacing of ditches 15 m vertical	x					

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5.7	Landfill Gas Management (LFG) Works						
	Works shall be constructed as per the requirements of the LFG Management Regulation	x					
	LFG works shall be constructed and operated in accordance with the BC LFG Management Facilities Design Guideline					x	
	LFG management works shall follow document entitled "Technologies and Best Management Practices for Reducing GHG Emissions from Landfills Guidelines"					x	
5.8	Final Cover Design						
	The final cover design shall:						
	prevent exposure of humans and/or wildlife to MSW	x					
	control infiltration of precipitation	x					
	minimize the uncontrolled release of methane to the atmosphere	x					
	limit erosion and release of sediment to surrounding surface waters	x					
	control the release of odours	x					
	minimize oxygen infiltration and fire risk	x					
	be compatible with the end use planned for the landfill site	x					
	Barrier Layer						
	Final cover design shall meet the following characteristics or be of an alternative final cover (e.g. evapotranspirative cover) which provides equivalent or better performance with respect to reduction of infiltration:						
	consist of a barrier layer with a hydraulic conductivity <1 x 10 ⁻⁵ cm/sec (arid regions) or 1 x 10 ⁻⁷ cm/sec (non-arid regions)	x					Final cover barrier layer will consist of a GCL equivalent to 1x10 ⁻⁷ cm/sec required for non-arid regions
	have minimum compacted thickness of 0.6 m measured perpendicular to the slope	x					
	have a topsoil layer thickness determined by annual precipitation but not less than >0.15 m	x					
	have a topsoil layer capable supporting sustained vegetative cover over barrier layer	x					
	ensure the maximum allowable leachate generation rate is not exceeded	x					
	be designed based on hydrologic modeling demonstrating final cover stability under design storm conditions and consistency with the LMP		x				Slope stability of specific cover material to be addressed in detailed design
	allow for waste stabilization during the post-closure period	x					
	designed in coordination with LFG management facilities including LFG collection/venting facilities	x					
	Topsoil layer shall:						
	have a depth related to the type of vegetation planned	x					
	provide moisture retention and nutrients required to support long term healthy vegetative growth		x				To be addressed in detailed design
	consist of an appropriate mix of soil, a carbon source and a nutrient source (soil or fabricated growing medium)		x				To be addressed in detailed design
	be developed by a QP in compliance with BCs organic matter recycling regulation If biosolids are used					x	
	Vegetation shall:						
	have seed or hydroseed applied at the earliest opportunity (which will allow for germination)		x				Timeline of hydroseed application will be specified in detailed design of final cover
	achieve erosion control, low maintenance and end use objectives	x					
	be periodically reseeded and fertilized until cover is fully established		x				To be addressed post-closure
	sustain vegetal species selected whose root systems will not impact performance of the low permeability layer	x					
5.9	Final Contours						
	Landfill side slopes shall be no steeper than 33%	x					
	Landfill top plateau must have minimum slope of 10 % for soil cover	x					
	Top plateau with durable geomembrane or composite barrier layer with an overlying drainage layer above the final landfill side slopes may have a minimum slope of 4 %					x	Minimum top plateau slope will be 10 %
	Grades may be altered post-closure to accommodate a planned beneficial land use if no differential settlement can be demonstrated for a period of at least 1 year post-closure					x	Post closure end use currently not planned
	Surface water control benches shall be installed at a minimum every 15 m vertical	x					Surface water control benches located half way up slope at approximately 10 m vertical from base of landfill and top plateau

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5.10	Site Security and Fencing						
	Landfill security shall discourage unauthorized access	x					
	Minimum 1.2m high fence, post and wire or better, around the entire perimeter of Landfill Site			x			Fenced along road, large site located in remote location
	Minimum 2.0 m high fence is recommended where vehicle access can be achieved from outside	x					Fence located along road
	Site Security shall include vandal proof locking mechanisms at publicly accessible entry points and shall be maintained in a locked position outside of operating hours	x					
5.11	Access Roads						
	Entrance facilities should be placed to minimize queuing along public roads	x					Queueing on roads will not be permitted
	Access roads shall:						
	be all-weather safe	x					
	provide access to on-site facilities for inspection and maintenance during the operating and post-closure periods	x	x				Existing road network will be utilized within the Site, access roads on the landfill active face will be addressed during operations
	provide safe public access to all material drop-off and waste disposal areas					x	Public access is not permitted to the Site
	prevent the tracking of mud or waste from the site onto public roadways		x				Existing road network will be utilized with no issues noted
	meet the traffic load and vehicle type	x					Existing road and vehicle types will be utilized with no issues noted
	>4 m for single lane	x					Existing road network will be utilized
	>7 m for two lanes	x					Existing road network will be utilized
	<8 % grade on public access roads					x	Public access is not permitted to the Site
	<15% grades on construction/internal roads	x					Existing road network will be utilized
	have armored ditches for roads >2% grades			x			The existing road network on the property do not have armored ditches and have functioned effectively. Landfill perimeter ditches will effectively manage leachate from access roads on the final contours of the landfill.
5.12	Vector and Wildlife Management and Nuisance Controls						
	Landfill site shall be designed to satisfy the operation criteria with respect to vector and wildlife management and nuisance controls	x					Vectors are not expected to be an issue due to the nature of the waste
6	Operations Criteria						
6.1	Authorized Wastes						
	The DCOP shall identify:						
	waste to be received including controlled waste	x					
	controls to be implemented for their receipt and disposal of all wastes	x					Waste acceptance policy and landfilling of waste discussed in Section 6.3 and 6.4 of DOCP, respectively
	Hazardous Wastes						
	Approval from the Director shall:						
	be received for disposal of Hazardous Wastes	x					For ACM only
	only be issued for asbestos and/or hydrocarbon contaminated soil	x					For ACM only
	Controlled wastes						
	Controlled wastes shall only be deposited:						
	with approval from the Director					x	Controlled wastes including slaughter, poultry, fish hatchery, farming, animal by-product, and liquid or semi-liquid waste will not be accepted
	where it has been demonstrated that there is no other viable alternative for the waste stream					x	Controlled wastes including slaughter, poultry, fish hatchery, farming, animal by-product, and liquid or semi-liquid waste will not be accepted
	Waste asbestos shall be:						
	transported in compliance with the TDG Act and regulations	x					
	deposited only in compliance with section 40(2) of the HWR	x					References part 6, section 40
	Controlled waste shall be:						
	disposed in a 2-4 m deep trench excavated into MSW at the active face					x	Controlled wastes including slaughter, poultry, fish hatchery, farming, animal by-product, and liquid or semi-liquid waste will not be accepted
	disposed into native soil within the landfill footprint where no further excavation will occur					x	Controlled wastes including slaughter, poultry, fish hatchery, farming, animal by-product, and liquid or semi-liquid waste will not be accepted
	immediately covered with a minimum of 0.5 m of cover or MSW					x	Controlled wastes including slaughter, poultry, fish hatchery, farming, animal by-product, and liquid or semi-liquid waste will not be accepted
	Recovery of recyclable and reusable materials should be encouraged	x					Diversion of suitable materials will be continued

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6.2	Landfilling of Wastes						
	All waste shall be:						
	placed within the landfill footprint in accordance with the Filling Plan	x					
	spread in thin layers (0.6 m or less) on the active face		x				To be addressed during operation, compaction will be optimized
	The area of active face shall be kept at a minimum	x					
	Recommendation in Appendix A shall be followed for landfilling of waste	x					Area of active face consistent with Appendix A
6.3	Cover Placement						
	Daily cover soil shall:						
	be >150 mm thick	x					
	be placed over the entire surface of the active face at the end of each operating day	x					
	or of equivalent alternate material approved by Director	x					
	Intermediate cover shall:						
	be >300 mm thick soil	x					
	be placed on areas that will not receive waste for >30 days	x					
	or of equivalent alternate material approved by Director					x	Alternate cover not proposed
	Water contacting daily cover shall be managed as leachate in accordance with the LMP (if considered leachate)	x					
	Optional stripping of cover shall:						
	be undertaken only immediately before beginning an active face on top	x					
	not result in unacceptable nuisance odours and/or odour complaints					x	Stripping of cover soil is not currently planned for the Site
	Final Cover soil shall						
	>600 mm thick or equivalent material (as outlined in 5.8 above).	x					
	be placed within 365 days on any part of the landfill footprint at final contours	x					
	Contaminated soil may be used as waste cover under the conditions provided in App B	x					
6.4	Nuisance Controls						
	The landfill shall be designed and operated to:						
	prevent impacts from nuisance factors	x					
	comply with any local government nuisance bylaws	x					
	have a complaint response procedure posted on-site	x					
	Dust						
	Dust releases should be controlled on site	x					
	dust emissions from roads shall:						
	be controlled via watering (or equivalent)	x					
	not be controlled by chloride (if possible)	x					
	not be controlled by waste oil	x					
	Landfill supervisory staff shall:						
	routinely watch out for dust clouds	x					Dust remedial measures will be implemented as required. Specific direction will be provided to operational staff during the operational life of the landfill
	initiate remedial measures whenever excessive dust is observed	x					
	Noise						
	Site operations shall be minimized by:						
	making use of natural and/or constructed features such as vegetation or berms	x					
	<8% slope on main haul roads					x	Haul roads will be consistent with the existing road network used for gravel operation, Noise levels will be consistent with existing operations.
	scheduling operations appropriately	x					
	Litter						
	Litter on the landfill shall:						
	not be left exposed	x					
	be prevented from migrating beyond the landfill site boundary	x					
	be removed at least once per year	x					Litter will be removed periodically as required

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	Odour						
	Operations shall be conducted in a manner to prevent nuisance from odour	x					No putrescible waste to be received or discharged, therefore little odour will be generated.
	An aeration system shall be installed in leachate storage ponds and other liquid facilities that generate unpleasant odours	x					The leachate management system will include an aeration pond.
	Biosolids and other odorous materials shall be stored, blended, and processed with required odour control measures in place					x	No odorous material will be received or discharged
6.5	Vector and Wildlife Management						
	Landfills shall						
	apply cover to discourage wildlife from feeding at landfills	x					
	have a bird deterrent program if <8km from an airport or are located where birds converge	x					
	implement a rodent control program	x					
	have bear proof electric fences if they are located in bear habitat within 120 days of a bear siting or other dangerous wildlife (cougar, coyote, wolf).			x			No putrescible waste to be received or discharged, therefore no bear risk.
6.6	Burning						
	Landfills shall burn clean wood and/or yard wastes only if:						
	approved in the SWMP, OC or permit	x					Burning under the OC will continue only if approved by the Director
	if it can be demonstrated to the director that there is no viable alternative		x				A technical assessment report in support of the burning operations under the OC may be submitted
	Open burning shall undertaken only if:						
	a technical assessment report satisfactory to the directors is be submitted		x				A technical assessment report in support of the burning operations under the OC may be submitted
	is approved in the SWMP, OC or permit	x					
	is approved by any other applicable fire protection authorities (see Appendix C for further details)	x					Will comply with local fire authorities stated in DOCP
6.7	Landfill Fire Management						
	The risk of landfill fires shall be reduced by:						
	application of daily, intermediate and final cover requirements	x					
	isolating wastes by specified thicknesses of inert daily and intermediate cover	x					
	constructing fire breaks >15 m wide free of combustible materials within the buffer zone, within the 20 m closest to the landfill footprint	x					
	providing year-round, immediate access to >4,000 lpm water or suitable alternative fire suppression equipment specified in the Fire Safety Plan		x				4000lpm supply not specifically referenced. Finalized fire and emergency response plan will identify the fire suppression measures and supplies.
	providing fire suppression equipment to all landfill equipment working at the operating face	x					
	taking all reasonable efforts to immediately extinguish unauthorized fires	x					
	reporting large fires which pose a threat to public health or to neighbouring property to the Provincial Emergency Program	x					
6.8	Scavenging						
	Scavenging shall be prevented	x					
6.9	Site Health And Safety Plan						
	The landfill site operations shall meet the requirements of Work Safe BC	x					
6.1	Signage						
	External signage shall include name of owner/external landfill operator, contact information, hours of operations, emergency contact information, waste and recyclable accepted or prohibited, tipping fees	x					Tipping fees will not be included in signage as Landfill private use.
	Internal signage shall include directions for: for public and commercial waste haulers to drop-off, material recovery, disposal areas		x				Waste haulers will be specifically directed by landfill staff and signage during operations. No public loads will be accepted.
6.11	Weigh Scales						
	Weigh scales shall						
	be installed if site receives >5,000 tonnes of waste per year	x					
	meet requirements of federal Weights and Measures Act	x					

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6.12	Records						
	Records shall:						
	be kept on-site for inspection and maintained for at least 7 years	x					
	be ready to be submitted to MOE within 14 days if requested	x					
	Records shall include:						
	Permit or the Operational Certificate	x					
	plans and reports	x					
	inspection records conducted by regulatory agencies	x					
	a complaint ledger	x					
	waste tonnages and volumes disposed of in a landfill	x					
	recyclable material data and disposition for each category of waste and recyclable material received and exported from the landfill site (if available)	x					
6.13	Operator Training						
	Landfills shall:						
	be supervised and operated by trained qualified personnel	x					
	have staff trained in appropriate specialized professional training	x					
	have staff which should engage in continuing education		x				Continuing education will be addressed during the operational life of the landfill
7	Closure and Post-Closure Criteria						
7.1	Closure Plan						
	A Closure Plan shall:						
	be included in the DOCP	x					
	be updated within two years of landfill closure or when significant changes that may impact its operational lifespan to the landfill site are planned		x				Applicable to future DOCP updates and Site changes as required
	include proposed post-closure land use for the Site	x					Post closure to be determined, referenced in DOCP
7.2	Progressive Closure						
	Each area of the landfill that has achieved final contours shall be closed within 365 days	x					
	Progressive closure activities shall be completed based on the filling plan	x					
7.3	Post-Closure Operations and Maintenance						
	Post-closure operations shall be conducted in accordance with the Closure Plan	x					
7.4	Contaminating Lifespan						
	The contaminating lifespan shall:						
	be determined using the latest updated environmental monitoring information	x					
	be assumed to be >30 years for post-closure operation and maintenance, and financial security requirements	x					
	address permanent shutdown of LFG facilities					x	No LFG facilities are proposed
7.5	Contaminated Sites Regulation and Landfill Closure						
	Closures shall be completed in compliance with any applicable regulations of the BC CSR.	x					The DOCP states the end use plan will comply with the BC CSR.
	A site profile shall be completed and submitted to the director 10 days prior to final deposit of waste		x				To be addressed prior to closure
	Closure process and the post-closure monitoring and reporting requirements will be regulated under the closure plan	x					
	Additional closure requirements may be required if use will change after closure		x				To be determined post-closure
8	Financial Security						
	Private Landfills shall provide financial security		x				Financial Security will be submitted as a separate document, all financial security criteria below has been deemed not addressed for the purposes of this review (technical documents only)
	Publicly held landfills shall:						
	Follow the Public Sector Accounting Board's financial reporting model for annual financial reporting purposes					x	Not a publicly held landfill
	Establish a dedicated closure fund to ensure that taxpayers are appropriately funding the future liability associated with the landfills including progressive closure and post closure care and monitoring					x	Not a publicly held landfill

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8.1	Amount of Financial Security						
	Financial security required must be estimated and be sufficient to match liabilities for each phase of development, close the site at any point of operation, and to continue with post-closure maintenance and monitoring		x				To be addressed in Financial Security Plan
	An initial security deposit shall be kept equal to, at a minimum, the liability associated with the site when maximum land disturbance as a result of site development prior to placement of any waste has been conducted		x				To be addressed in Financial Security Plan
	Increasing financial security shall be kept which matches the costs projected and the timeline for each phase of development		x				To be addressed in Financial Security Plan
	At the time of site closure the financial security shall be adequate to offset final closure and post closure care		x				To be addressed in Financial Security Plan
8.2	Calculating Financial Security						
	The amount of financial security shall be calculated as the sum of the Cost of emergency closure or planned closure, whichever is greater		x				To be addressed in Financial Security Plan
	All costs shall:						
	be identified individually and tabulated for each phase of the landfill development		x				To be addressed in Financial Security Plan
	shall include costs associated with administration, engineering assessment and construction oversight		x				To be addressed in Financial Security Plan
	The costs shall not be reduced by the value of any assets		x				To be addressed in Financial Security Plan
	A contingency of 20% shall be added to the total estimated costs		x				To be addressed in Financial Security Plan
	Closure Costs						
	The following activities shall be included in the forecasting of closure costs:						
	compaction grading of the landfill surface area		x				To be addressed in Financial Security Plan
	final cover placement and establishment of vegetation		x				To be addressed in Financial Security Plan
	installation of fences, gates, surface water control works, landfill gas		x				To be addressed in Financial Security Plan
	Post-Closure Costs						
	The following activities shall be included in the forecasting of post-closure costs:						
	management and maintenance of the landfill final cover including fertilizing		x				To be addressed in Financial Security Plan
	operation and maintenance of any on-site or off-site leachate management		x				To be addressed in Financial Security Plan
	operation and maintenance of LFG management facilities		x				To be addressed in Financial Security Plan
	operation and maintenance of site infrastructure including surface water		x				To be addressed in Financial Security Plan
	construction or replacement of any monitoring or control works as required		x				To be addressed in Financial Security Plan
	annual environmental monitoring and reporting		x				To be addressed in Financial Security Plan
	contingency measures cost		x				To be addressed in Financial Security Plan
	activities to be included are the costs of implementing and maintaining the landfill		x				To be addressed in Financial Security Plan
8.3	Post-Closure Period						
	The post-closure period for which post-closure care will be required shall be determined based on the contaminating lifespan of the landfill	x					
	Contaminating lifespan of the landfill shall be no less than 30 years and may either be determined by a QP or no less than: <100,000 tonnes MSW in place : 50 years 100,000-1,000,000 tonnes MSW in place : 100 years >1,000,000 tonnes MSW in place: 200 years	x					Determined by QP to be 28 years, therefore 30 years is used for post-closure period
8.4	Cost to be Presented in Current Dollars						
	All cost estimates shall be presented in net present values		x				To be addressed in Financial Security Plan
	Cost estimates shall be adjusted for inflation and discount rates calculated		x				To be addressed in Financial Security Plan
	Discount rates shall be based on the current Government of Canada Long Term		x				To be addressed in Financial Security Plan
	The rate of return shall be 2% unless otherwise determined by a member of the		x				To be addressed in Financial Security Plan
8.5	Review Period						
	Cost estimates shall be reviewed at least every 5 years or at the commencement of a new landfill phase or where there has been a significant design revision		x				To be addressed in Financial Security Plan
8.6	Types of Financial Security						
	The financial security shall consist of an irrevocable letter of credit or a Surety Bond (recommended for short term issuance only)		x				To be addressed in Financial Security Plan
	The financial institution issuing the irrevocable letter of credit shall meet the following criteria: Is a Canadian Chartered Schedule 1, 2 or 3 Banks or Canadian Credit Union Has a senior unsecured long term credit rating of Standard and Poor's A+, Moody's A1, or Dominion Bond Rating Service A (high) Has an office in Canada		x				To be addressed in Financial Security Plan

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9	Monitoring Criteria						
	A detailed Environmental Monitoring Plan (EMP) shall:						
	be prepared for leachate, groundwater, surface water, and LFG		x				To be updated in final EMP
	demonstrate compliance with performance criteria consistent with plans/reports	x					
	address the need for monitoring within 1 km of the landfill footprint	x					
	be developed in accordance with the "Guidelines for the Environmental Monitoring at Municipal Solid Waste Landfills" for groundwater, surface water, leachate and soils and vegetation or its approved replacement	x					
	be included in the DOCP	x					
9.1	Leachate Monitoring						
	Monitoring of leachate levels within the landfill shall be conducted to ensure:						
	LFG extraction wells are not flooding					x	LFG extraction wells are not proposed
	waste is not becoming saturated	x					Leachate head will not exceed 0.3 metre.
	pore pressures are maintained at acceptable levels to prevent slope instability		x				Leachate head will not exceed 0.3 metre, monitoring of the leachate level to prevent pore pressure build up will be included in the revised EMP.
	Leachate is monitored to assist in determination of contaminating lifespan	x					
9.2	Groundwater and Surface Water Monitoring						
	Groundwater and surface water monitoring results are to be assessed for compliance with applicable criteria	x					
	The EMP for groundwater shall be developed based on the:						
	Hydrogeology and Hydrology Characterization Report	x					
	Groundwater and Surface Water Impact Assessment	x					
	expected landfill performance	x					
	The EMP for surface water shall be developed:						
	to monitor the performance of the surface water control works	x					Specific monitoring locations will be included in the revised EMP.
9.3	Landfill Gas Monitoring						
	The EMP for landfill gas shall follow the requirements in the BC Landfill Gas Management Facilities Design Guidelines	x					
10	Plans and Reports						
	All reports shall be:						
	be certified by a qualified professional	x					reports certified to date, need for future certification not specifically addressed in DOCP
	kept up to date	x					All reports will be maintained and updated as required.
	maintained on-Site for inspection/submission as required	x					
	The following shall be conducted in accordance with the plans and reports:						
	landfill planning	x					
	landfill design	x					
	landfill construction		x				To be completed during landfill construction/operation.
	landfill operation		x				To be completed during landfill construction/operation.
	landfill monitoring		x				To be completed during landfill construction/operation.
	landfill closure		x				To be completed during landfill construction/operation.
	The following reports shall be prepared for each landfill:						
	Landfill Criteria Conformance Review and Upgrading plan (if applicable)		x				
	Hydrogeology and Hydrology Characterization Report	x					
	Construction Reports(s)		x				To be completed during landfill construction/operation.
	Design, Operation and Closure Plan (DOCP)	x					
	Landfill Gas Generation Assessment (if required),	x					Included in the DOCP.
	Landfill Gas Management Facilities Design Plan (if required)					x	Not required
	Annual Operations and Monitoring Report(s)		x				To be completed during landfill construction/operation.

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10.1	Hydrogeology and Hydrology Characterization Report (HHC report)						
	The HHC report shall characterize:						
	site geology	x					
	site hydrogeology	x					
	surface hydrology at and near the landfill site	x					
	The HHC report shall include:						
	map and cross-sections	x					
	geologic structure	x					
	hydraulic conductivity	x					
	groundwater flow direction	x					
	groundwater flux	x					
	springs and groundwater discharge locations	x					
	surface hydrology	x					
	water quality	x					
	background groundwater quality	x					
	land and water use: well map and well information	x					
	adjacent land use	x					
	groundwater and surface water uses	x					
10.2	Construction Report(s)						
	Landfills shall prepare construction reports after:						
	construction	x					All reports related to development of the Site will be maintained
	significant modification of landfill facilities	x					All reports related to development of the Site will be maintained
	Construction reports shall:						
	demonstrate that the landfill has been constructed in accordance with the plans,		x				To be addressed during landfill construction
	demonstrate that geologic conditions encountered are as expected and used in groundwater and surface water impact assessment		x				To be addressed during landfill construction
	include inspection quality assurance/quality control testing results		x				To be addressed during landfill construction
	include as-built record drawings including the lines, grades and as- built elevations of the landfill		x				To be addressed during landfill construction
	include results of all soil test data		x				To be addressed during landfill construction
	include geologic inspection report(s)		x				To be addressed during landfill construction
	be kept up to date as landfill development occurs		x				To be addressed during landfill construction
	be retained for inspection and upon request submitted to the MOE		x				To be addressed during landfill construction
	demonstrate QA/QC testing has been conducted during the construction or significant alteration to the landfill		x				To be addressed during landfill construction
	address concerns identified during QA/QC testing		x				To be addressed during landfill construction
10.3	Design, Operations and Closure Plan						
	Landfill owners shall prepare and maintain a DOCP that:						
	is reviewed and updated as needed or at least every five years		x				To be addressed throughout landfill operation
	demonstrates that the facility will be planned, designed, constructed, operated, monitored and closed in accordance with the criteria	x					
	The DOCP shall include the following:						
	Topographical map showing:						
	area at least 1 km from the landfill footprint	x					
	elevation contours	x					
	natural ground slopes	x					
	drainage patterns	x					
	other topographical features	x					
	Site Plan showing:						
	area at least 1 km from the landfill footprint	x					Updated Site Plan will be submitted
	landfill property	x					
	landfill site boundary	x					
	landfill footprint	x					
	buffer zone	x					
	all applicable features in the siting criteria and corresponding distances		x				Updated Site Plan will be submitted
	legal property boundaries, right-of-way and other easements	x					
	topographic contours (10 or 05 m)	x					
	UTM Grid (100 -m spacing), north arrow and scale		x				Updated Site Plan will be submitted
	all existing structures and infrastructure	x					
	tree line areas		x				Updated Site Plan will be submitted

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Site Layout Plan including:							
	landfill site boundary	x					Presented on Existing Conditions drawing
	landfill footprint	x					Presented on Existing Conditions drawing
	buffer zone	x					Presented on Existing Conditions drawing
	current landfill contours	x					Presented on Existing Conditions drawing
	final landfill contours	x					Presented on Existing Conditions drawing
	waste thickness	x					Presented on Existing Conditions drawing
	design volume	x					Presented in fill plan figures
Landfill facilities including:							
	site entrance	x					
	fencing		x				Will be included in Updated Site Plan
	roads	x					
	gatehouse					x	Gate house will be Site office as there is no access to Public
	weigh scale	x					
	waste and recyclable drop-off and recycling facilities					x	Drop off area for waste will be direct to landfill, diverted materials (recyclables) will be stockpiled in areas designated in the OC.
	leachate management works	x					
	surface water management works					x	
	landfill gas management works					x	
Physical Summary including:							
	physical setting	x					
	geology	x					
	hydrogeology	x					
	hydrology	x					
	climatic conditions	x					
Geotechnical and Seismic Assessment including:							
	bearing capacity					x	Not specifically addressed in the geotechnical report, conclusions based on geotechnical investigation indicate the site is suitable for a Landfill due to the dense nature of the soils that previously held an additional 20 m of overburden prior to excavation.
	differential settlement	x					
	slope stability during construction, operations and post-closure	x					
	seismic and fault activity risk assessment	x					
	effects on the landfill base liner and leachate collection system					x	Because the risk for settlement and liquefaction is low there are no anticipated effects to the landfill base liner and leachate collection system due to settlement or the seismic events discussed in the 2016 Geotechnical Report.
	conclusions and recommendations regarding the suitability of the landfill site	x					
Groundwater and Surface Water Impact Assessment including:							
Impact assessment at the nearer of the site boundary or within 150 m of landfill for:							
	Groundwater	x					
	Surface water	x					
	planned and current uses of groundwater and surface water within 1 km of the	x					
	applicable water quality criteria and compliance monitoring locations		x				The EMP will be updated to present the final monitoring locations
	application of the water quality monitoring results to date	x					
	up-gradient and down-gradient surface water and groundwater quality	x					
	identification of landfill parameters of concern	x					
	leachate quality	x					
	contaminant concentrations	x					
	mass loadings	x					
	trends		x				To be completed in future monitoring reports
	assimilative capacity	x					
	cumulative impacts	x					
Landfill Design							
	Design that demonstrates the landfill will satisfy all sections of the Criteria along with necessary plans specs, drawings, elevations sections etc.	x					

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Filling Plan						
Planned development of individual phases and cover borrow areas	x	x				Daily cover may be contaminated soil imported to the Site, intermediate and final cover will on-site borrow areas, borrow areas are to be determined at the time cover is required and will be material excavated as part of the aggregate excavation
Progressive Closure Plan						
Documents that show how progressive closure will be implemented including:						
Phasing Plan showing areas to be progressively closed	x					
plan area of each progressive closure	x					
schedule for each progressive closure		x				Timing to be determined upon approval of the OC
proposed cover system profile	x					
stability analysis including under design storm conditions		x				Slope stability analysis of final cover to be completed as part of detailed design based on specific materials soil materials proposed
analysis of landfill gas production and any required venting	x					
materials management plan indicating the closure material source and storage	x					
Lifespan Analysis Table						
Projection of annual waste tonnage to be:						
received	x					
reused					x	Materials to be reused will not be forecasted
recycled					x	Materials to be recycling will not be forecasted, recycling will be promoted
burned		x				To be provided in Technical Assessment Report for Burning Operations
landfilled	x					
airspace consumed	x					
Contaminating Lifespan Assessment						
Lifespan assessment of key contaminants demonstrating validity of design service life and contaminating lifespan	x					
Surface Water Management Plan (see section 10.3.2)						
Leachate Management Plan (see section 10.3.3)						
LFG Management Plan (if required)						
Demonstrates the LFG management facilities will satisfy the "Criteria"	x					
May consist of an LFG Facilities Design Plan					x	Current LFG generation forecast <1,000 tonnes CH4/yr therefore no LFG Facilities Design Plan is required
Environmental Monitoring Plan (see section 9)						
Facility Operations Plan						
Demonstrates how the facilities will be operated in compliance with the operation criteria	x					
The design of the nuisance control measures is to be included in the plan	x					
Closure Plan (see section 10.3.4)						
Fire Safety Plan						
Submitted to the Fire authority that would respond to the fire		x				Will be submitted prior to landfilling under OC
Describes how fire risks will be minimized	x					
Includes an emergency response plan to quickly extinguish a fire if one develops	x					
Identifies a suitable water supply, firefighting and heavy equipment resources	x					
Emergency Response Plan						
Shall document strategies for dealing with emergencies at the site including:						
HAZ-MAT incidents	x					
spills	x					
power outages		x				
extreme climate events	x					
Demonstrates the landfill meets the requirements of Work Safe BC	x					Discussed in Health and Safety Section of DOCP, will be included in final Emergency Response Plan
Financial Security Plan (see section 8)						
Contingency Plan						
Shall include:						
possible failure and non-compliance scenarios of the leachate, surface water, and landfill gas management facilities.	x					Discussed in submitted Technical Assessment Report
Practical and implementable contingency measures to address any failure or non-compliance with the performance criteria.	x					Discussed in submitted Technical Assessment Report

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	Land Survey						
	Identifies landfill site boundary and the landfill footprint.	x					
	The limits of the landfill footprint and landfill site boundary are to be established and maintained in the field.		x				To be completed issuance of OC
10.3.1	Filling Plan						
	A filling plan shall be developed and include:						
	generation and collection of leachate	x					
	methods to control of storm water	x					
	methods to control of litter during the various seasonal conditions	x					Addressed in the Site Operations Section of the DOCP
	calculation of interim slope stability and safety	x					Addressed in the 2016 Geotechnical Investigation Report
	method of vehicle access to the active waste disposal area		x				Access roads to the active face will be determine during the operational life of the landfill.
	progressive closure of the landfill footprint	x					
	methods to minimize nuisance impacts such as dust, nuisance weeds, etc.	x					Included in the nuisances section of the DOCP
	description of fill method cell by cell	x					
	identification of the development of cells, strips and lifts	x					
	full details on the cell geometry and cell size	x					
	requirements and plans for daily, intermediate and final cover	x					Addressed in Landfill Design and Site Operations section of Landfill
	plans for any proposed stripping and reuse of cover layers and road materials					x	Stripping of cover is not currently planned
	target compaction density	x					Targeted to meet the airspace utilization factor specified
	waste to cover ratio	x					Addressed in fill table
	air space utilization factor	x					Airspace utilization factor of 1.3 tonne/m3
	engineering drawings presenting the progressive closure of the landfill footprint	x					
10.3.2	Surface Water Management Plan						
	A Surface Water Management Plan shall be prepared and include:						
	explanation of how the landfill will satisfy performance criteria	x					
	description of potential for surface water impairment and resulting impacts	x					
	a demonstration of understanding of the local and regional watershed	x					
	demonstration that the natural hydrologic cycle is preserved	x					
	a description of surface water management on Site	x					
	measures to promote diversion of clean water to minimize leachate production and promote groundwater recharge	x					
	measures to protect the surface water quality in the off-site surface water bodies receiving drainage from the landfill site					x	Drainage from the landfill area and base of the aggregate pit will not discharge to an off-site surface water body
	a design for surface water control works	x					
	a design that will maintain run-off from the site sediment free and at rates that are consistent with pre-development flows	x					
	identification the surface water management works required for the control of erosion, sediment transport, flood risk, water quantity and water quality	x					
	meteorological data applicable to the site	x					
	results of the hydrologic modeling	x					
	detailed design of ditches, down-chutes, culverts, retention ponds and other surface water control infrastructure	x					
	discussion addressing management of surface water during operation and post-closure	x					Addressed in post closure plan
	The Surface Water Management Plan shall prepared in a manner consistent with the water management requirement strategies utilized in developing the leachate management plan and the groundwater and surface water impact assessment	x					

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10.3.3	Leachate management Plan						
	All new and expanding landfills and new landfill phases at existing landfills shall:						
	be designed with engineered liner system	x					
	be designed with engineered leachate collection system	x					
	A Leachate Management Plan shall address the following:						
	leachate generation quantities under average and extreme conditions for the following flows	x					
	demonstrate the performance criteria (Section 4) will be satisfied	x					
	present an assessment of alternatives for off-site or on-site leachate treatment			x			Alternatives have been analyzed independently, only preferred leachate management alternative was carried in the DOCP
	identify the preferred treatment method	x					
	demonstrate that the preferred alternative is practical and implementable	x					
	provide an implementation schedule of the preferred alternative		x				Leachate treatment system will constructed prior to discharge of waste under OC
	identify required approvals for implementation of the Leachate Management Plan if off-site disposal/treatment is proposed.					x	
	A Leachate Management Plan shall include (at a minimum):						
	Leachate generation quantities under average and extreme conditions for the following flows						
	annual	x					
	monthly	x					
	peak	x					
	leachate chemistry profiles (actual and expected) including concentrations of:						
	ammonia	x					
	BOD	x					
	chloride	x					
	iron	x					
	manganese	x					
	TSS	x					
	landfill liner strategy (including leachate compatibility and lifespan).	x					
	leachate collection strategy (including protection from clogging).	x					Cleanouts at both ends and redundant leachate sump
	leachate collection system efficiencies.	x					
	Treatment System Selection and Design Plans including:						
	identification of Management Alternatives including opportunities for moisture reduction, on-site treatment, off-site treatment, and recirculation.			x			Alternatives were analyzed independently, only the preferred leachate management alternative was included in the DOCP.
	evaluation of management alternatives including required level of treatment, availability of infrastructure, economics, sustainability and environmental risks.			x			Alternatives were analyzed independently, only the preferred leachate management alternative was included in the DOCP.
	sludge management	x					
	treatment system performance monitoring and maintenance		x				Specific maintenance requirements will be address in the detailed design and during the completion of an operations and maintenance manual for the leachate management system
	leachate discharge strategy	x					
	leachate management contingency plan	x					
	If discharging to a groundwater infiltrations system:						
	demonstration leachate meets applicable groundwater standards as specified by the director	x					The groundwater impact assessment demonstrated groundwater will meet the compliance criteria at the property boundary
	If discharging to a stream or river:						
	demonstration that the discharge meets applicable surface water quality standards as specified by director					x	No discharges to a stream or river
	demonstration that any leachate discharge to surface water comply with requirements of the federal Fisheries Act					x	No discharges to a stream or river
10.3.4	Closure Plan						
	Landfills shall prepare Closure Plan describing post-closure operations and maintenance of:						
	general site facilities (e.g. roads, fencing &c.)	x					
	overall facility	x					
	final cover	x					
	surface water management works	x					
	leachate collection and on-site leachate treatment facility/leachate haulage program	x					
	LFG management facilities					x	Current LFG generation forecast <1,000 tonnes CH4/yr therefore no LFG management facilities are proposed
	environmental monitoring program throughout entire Contaminating Life Span	x					
	contingency measures for any reasonably foreseeable failure of works	x					Discussed in the submitted Technical Assessment Report

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10.4	Landfill Gas Generation Assessment						
	Landfills with >100,000 tn waste in place or that receive >10,000 tn/yr shall undertake an assessment of landfill gas generation and to submit the results to the MOE	x					
10.5	Landfill Gas Management Facilities Design Plan						
	Sites generating >1,000 tonnes CH ₄ shall complete a LFG Management Facilities Design Plan and installation of design					x	Current LFG generation forecast <1,000 tonnes CH ₄ /yr
10.6	Annual Operations and Monitoring Report						
	Landfills shall prepare a Annual O&M Report which includes:						The Annual Operations and Monitoring Reports will address the the following criteria, at this time the criteria will be considered not addressed as they relate to the submitted technical reports.
	Annual Environmental Monitoring Report						
	Data tabulation, comparison to performance criteria, interpretation, trends		x				To be addressed in future Annual Operations and Monitoring Reports
	Identification of any non-compliant criteria (present or predicted future)		x				To be addressed in future Annual Operations and Monitoring Reports
	Conclusions, recommendations and proposed changes to the environmental monitoring plan		x				To be addressed in future Annual Operations and Monitoring Reports
	Annual Operations Report						
	Total volume, tonnage, and types of waste discharged into the landfill for the year		x				To be addressed in future Annual Operations and Monitoring Reports
	Types and tonnages of waste that were not directly disposed of into the landfill such as open burned, recycled, composted, etc.		x				To be addressed in future Annual Operations and Monitoring Reports
	Leachate quantities collected, treated and discharged.		x				To be addressed in future Annual Operations and Monitoring Reports
	LFG quantities collected flared and utilized (as required by LFG Management Plan)		x				To be addressed in future Annual Operations and Monitoring Reports
	Operational plan for the following 12 months		x				To be addressed in future Annual Operations and Monitoring Reports
	Remaining site life and capacity		x				To be addressed in future Annual Operations and Monitoring Reports
	Closure works completed to date		x				To be addressed in future Annual Operations and Monitoring Reports
	Results of regular inspection for:						
	cover integrity		x				To be addressed in future Annual Operations and Monitoring Reports
	health of vegetation		x				To be addressed in future Annual Operations and Monitoring Reports
	undesirable plant species		x				To be addressed in future Annual Operations and Monitoring Reports
	burrowing animals		x				To be addressed in future Annual Operations and Monitoring Reports
	erosion		x				To be addressed in future Annual Operations and Monitoring Reports
	settlement		x				To be addressed in future Annual Operations and Monitoring Reports
	any changes from approved reports, plans and specifications		x				To be addressed in future Annual Operations and Monitoring Reports
	any complaints received and the action taken as a result of a complaint		x				To be addressed in future Annual Operations and Monitoring Reports
	Financial Security Plan update		x				To be addressed in future Annual Operations and Monitoring Reports
	identification of any non-compliance with the Solid Waste Management Plan						To be addressed in future Annual Operations and Monitoring Reports
	progress report on efforts to resolve previously determined non-compliance		x				To be addressed in future Annual Operations and Monitoring Reports
	Landfill owners are encourage to track and report the following:						
	compaction, waste to cover ratio, waste to road ratio and airspace utilization		x				To be addressed in future Annual Operations and Monitoring Reports
	operation and maintenance expenditures		x				To be addressed in future Annual Operations and Monitoring Reports