

Information Requirements Table for Liquid Waste

Application Tracking Number: [Click here to enter text.](#)
 Authorization Number: [Click here to enter text.](#)
 [insert company / project name]

Applicant Summary	
Application Tracking #	
Authorization #	
Applicant / Facility Name	

Ministry of Environment	
Prepared by:	
Title	
Date	

The *Information Requirements Table (IRT) for Liquid Waste* is a tool used by Ministry of Environment staff to document specific guidance and instructions given to an applicant pursuing authorization to discharge under the *Environmental Management Act*.

Note - this document was developed to capture all the items and complexities concerning liquid waste especially for large or highly sensitive projects across a variety of sectors where complex guidance and instruction might be necessary.

Accordingly, for any given application, not all the items will apply and not all required items will warrant detailed discussion of methods and other concerns.

As part of the Preliminary Application Phase, MOE will discuss with the applicant the items listed in this table to determine what will be required in support of their final application. A tick mark in the "Required" column of the table indicates an information item to be included into the application package as agreed to by both parties or as directed by MOE. Should it be determined that specific methods will be used to derive this information, this will be specified with a tick mark in the "Methods" column. Specific methods may not be necessary for applications that will not require a subject matter expert review. In cases where complex impact assessments are to be undertaken, agreement on the methods used will be required. For simple methods, the methods used could be discussed with the applicant in a meeting and noted as agreed to in the table. For more complex methods, the applicant may be required to submit a "Methods Package" by an agreed date for MOE review, comment and acceptance. Once methods are accepted by MOE they should be either described in the "Methods" column or a reference made to the document describing the Methods Package.

If required, this document will form part of an Application Instruction Document (AID) which documents application submission requirements for the applicant. The AID is issued by the Director after a preliminary application meeting has occurred.

The MOE will be assessing this application against this table and it is expected that the applicant does the same prior to any preliminary meetings and/or prior to any final submissions. The Ministry will be screening the final received application against the requirements noted in the AID to ensure it is complete before resources are dedicated to a full, detailed review.

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Information	Requirements	Comments	Location in Final Application
1 PROJECT DESCRIPTION			
1.1 Describe the project including proposed facilities and processes.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
1.2 Provide a company overview.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
1.3 Identify the project location including site and surrounding land uses, watershed and water uses.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
1.4 Describe relevant regulatory processes outside of EMA (Environmental Assessment, concurrent applications, etc.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
1.5 Describe the project permitting history and list related reports.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
1.6 Describe the products and markets.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
1.7 Describe major activities, infrastructure and waste management related to: <ul style="list-style-type: none"> • Site preparation and Construction • Operations • Closure and Post-closure. 	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
1.8 Provide a detailed map of the project location and surrounding watershed and potential environmental receptors.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
1.9 Provide a detailed Site Plan with all proposed discharge and monitoring points.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
1.10 Provide process flow diagrams with respect to wastes and emissions.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
1.11 Describe specific before and after conditions for permit amendment applications.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
1.12 List of qualified professionals and their related qualifications.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
2 ENVIRONMENTAL SETTING - METEOROLOGY AND CLIMATE			
2.1 Provide a detailed map showing the location of all site-specific and regional meteorological stations in relation to project facilities	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
2.2 Describe relevant meteorological and climate information sources for parameters such as precipitation, temperature and evaporation.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
2.3 Submit all climate data in an appendix (electronic preferred) including site photos, precipitation, temperature, snow water equivalent, etc. and provide monthly and annual summaries of relevant climatic parameters.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
2.4 Identify information gaps and describe site-specific meteorological data collection methods proposed to augment existing regional data.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		

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3 ENVIRONMENTAL SETTING - HYDROLOGY, OCEANOGRAPHY, AND HYDROGEOLOGY			
3.1 Provide a detailed hydrologic analysis of key surface drainages within the project area, to define seasonal flow regimes of local drainages. The analysis must include: <ul style="list-style-type: none"> • Describe pre-project topography and surface drainage features. • Monthly and annual stream flow/runoff summaries and critical low flow metrics, • Identification all data gaps and assumptions, • Describe and justify baseline study design, methods of hydrometric station installation, sampling methods and QA/QC procedures, following guidance in Water and Air Baseline Guidance Document for Mine Proponents and Operators. • Provide detailed maps showing all drainage basins (local and regional) that will be affected by the proposed project, areas of groundwater discharge, wetlands and notable topographic features. • Include all hydrological data in an appendix (electronic preferred), including rating curves, manual measurements, plots of site-specific discharge, site photos, etc. • Provide a conceptual hydrologic or water balance model for the site illustrating worst case scenarios for low and high flows. • Provide calibration/validation statistics and plots for hydrological model. • Identify spatial or temporal gaps in the database, and provide record periods for all gauging stations (regional and project specific). • For projects with life span greater than 20 years, include an assessment of the potential impacts of climate change on the project water balance. 	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
3.2 Provide a detailed analysis of key oceanographic factors that may influence the discharge in the marine or estarine environment. The analysis must include: <ul style="list-style-type: none"> • Analysis of bathymetric features, • Drogue studies, • Tidal flux and currents, • Temperature gradients, • Salinity. 	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
3.3 Provide a detailed hydrgeologic analysis of key surface drainages within the project area, to define seasonal flow regimes of local drainages. The analysis must include: <ul style="list-style-type: none"> • Describe aquifers and aquitards within and downstream of the project property, including the geological units in which groundwater occurs and the units' characteristics. 	Required <input type="checkbox"/> Methods <input type="checkbox"/>		

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<ul style="list-style-type: none"> Describe and justify baseline study design, methods and QA/QC procedures, following guidance in Water and Air Baseline Guidance Document for Mine Proponents and Operators. Provide a minimum of 1 year of water level data from observation wells and assess all relevant units for aquifer characteristics (e.g. storativity, hydraulic conductivity, etc.). Provide piezometric contour maps depicting groundwater flow direction and hydro-stratigraphic cross-sections. Develop and provide methods and outcomes of a conceptual hydrogeological model (considering seasonal variation) of the project area. Identify gaps and justify the assumptions in the conceptual hydrogeological model. Provide calibration/validation statistics and plots for the groundwater model. Conduct a sensitivity analysis for any groundwater flow and level modeling, considering variation in hydraulic conductivity, wet and dry conditions, etc. Provide all well logs, pump/slug test results, core pictures etc. in an appendix. 			
4 ENVIRONMENTAL SETTING -WATER AND SEDIMENT QUALITY			
<p>4.1 Provide a baseline groundwater quality report. The report may be based on existing water quality data. If existing data is not sufficient additional baseline water quality sampling may be required. The report must:</p> <ul style="list-style-type: none"> Describe and justify baseline study design, methods, analysed parameters and QA/QC procedures. Provide rationale, if design and methods differs from those described in <i>Water and Air Baseline Guidance Document for Mine Proponents and Operators</i>. Provide data summaries (using appropriate statistics) that characterize spatial and temporal variations and identify location, frequency, duration and magnitude of applicable standards or environmental quality guideline exceedances. Identify downstream groundwater users. Provide a detailed map with groundwater sampling locations, potential seepage areas, proposed or existing discharge points and potential areas of disturbance. Identify data gaps and identify and justify the assumptions in the report. Identify and discuss QA/QC concerns related to the data following the procedures in the B.C.Field Sampling Manual. 	Required <input type="checkbox"/> Methods <input type="checkbox"/>		

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<p>4.2 Provide a baseline surface water water quality report. The report may be based on existing water quality data. If existing data is not sufficient additional baseline water quality sampling may be required. The report must:</p> <ul style="list-style-type: none"> • Describe and justify baseline study design, methods, analysed parameters and QA/QC procedures. • Provide rationale, if design and methods differs from those described in <i>Water and Air Baseline Guidance Document for Mine Proponents and Operators</i>. Multiple years of data are highly recommended. • Identify data gaps and identify and justify the assumptions in the report. • Identify downstream surface water users. • Provide data summaries (using appropriate statistics) that characterize spatial and temporal variations and identify location, frequency, duration and magnitude of applicable standards or environmental quality guideline exceedances. • For lakes provide limnological characterizations, at a representative deep station for each basin. Sampling design should be adequate to support determination of trophic status. • Provide raw data in tables, including applicable method detection limits (in appendices – electronic preferred). • Provide a detailed map with surface water sampling locations in relation to proposed or existing discharge locations and areas of disturbance. • Identify and discuss QA/QC concerns related to the data, following the procedures in the BC Field Sampling Manual. 	<p>Required <input type="checkbox"/> Methods <input type="checkbox"/></p>		
<p>4.3 Provide a baseline sediment quality report. The report may be based on existing sediment quality data. If existing data is not sufficient an additional baseline sediment quality sampling may be required. The report must:</p> <ul style="list-style-type: none"> • Describe and justify baseline study design, methods, parameters analysed and QA/QC procedures, following guidance in <i>Water and Air Baseline Guidance Document for Mine Proponents and Operators</i>, • Identify data gaps and identify and justify the assumptions in the report • Provide data summaries (using appropriate statistics) that characterize spatial and temporal variations and identify location, frequency, duration and magnitude of applicable standards or environmental quality guideline exceedances. • Provide raw data in tables, including applicable method detection limits (in appendices – electronic preferred). • Provide a detailed map with sediment sampling locations, and proposed or existing discharge locations and areas of disturbance. 	<p>Required <input type="checkbox"/> Methods <input type="checkbox"/></p>		

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<ul style="list-style-type: none"> Identify and discuss QA/QC concerns related to the data, following the procedures in the BC Field Sampling Manual. 			
5 ENVIRONMENTAL SETTING – AQUATIC LIFE INDICATORS			
<p>5.1 Provide a baseline aquatic life indicator report. The report may be based on existing sediment quality data. If existing data is not sufficient an additional baseline aquatic life sampling may be required. The report must:</p> <ul style="list-style-type: none"> Describe and justify baseline study design, methods, measuring endpoints, parameters analysed and QA/QC procedures, following guidance in <i>Water and Air Baseline Guidance Document for Mine Proponents and Operators</i>, including tissue residues. Multiple years of data are highly recommended. Identify data gaps and identify and justify the assumptions in the report Provide a detailed map with sampling locations, and proposed or existing discharge locations and areas of disturbance. Include other water and sediment quality sample locations, if appropriate Provide raw data in tables, including applicable method detection limits (in appendices – electronic preferred). Provide data summaries (using appropriate statistics to determine biological significance) that characterize spatial and temporal variations and identify location, frequency, duration and magnitude of effects on aquatic resources. Demonstrate that the baseline aquatic life monitoring program is sufficiently robust to assist future monitoring in detecting a biologically significant predetermined change. 	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
6 LIQUID WASTE DISCHARGES AND TREATMENT			
<p>6.1 Provide a description of pollution control works and treatment efficiencies.</p>	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
<p>6.2 Provide an effluent inventory table that includes for each contaminant and point of discharge, including stormwater:</p> <ul style="list-style-type: none"> % change (if an amendment), Maximum and average contaminant discharge rate and concentration for each contaminant, Maximum and average flow, Operating durations (i.e. hours per day, days per year) and frequency. Discharge point location in decimal degrees, to the fourth decimal place. 	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
<p>6.3 Provide process flow diagrams with waste streams</p>	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
<p>6.4 Describe the proposed source control.</p>	Required <input type="checkbox"/> Methods <input type="checkbox"/>		

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6.5 Characterize and/or predict raw water quality for all site-waters, including source, quantity, chemistry and toxicity; describe methodology.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
6.6 Best Achievable Technology Assessment by QP and/or assessment of Best Practices http://www2.gov.bc.ca/assets/gov/environment/waste-management/industrial-waste/industrial-waste/pulp-paper-wood/best_achievable_control_tech.pdf	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
6.7 Manufacturer specifications for pollution control works.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
6.8 Detailed site plan that includes locations and coordinates (as appropriate) for each point and non-point discharge. Coordinates must be in decimal degrees and to the fourth decimal place.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
6.9 Provide explanation and detailed design for effluent discharge works including specifications for the method of discharge and media, i.e. discharge to ground or surface water (fresh, marine).	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
6.10 Describe the proposed sampling and flow measuring facilities at discharge points.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
6.11 Explain the storm water management system and provide detailed design for proposed storm water works.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
6.12 For open air treatment system components, storage tanks, lagoons and ponds, specify and justify the design flood events for structural integrity and for removal of suspended solids.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
6.13 Describe any proposed use of settling aids, including a toxicity evaluation.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
6.14 Describe and characterize treatment process residuals.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
6.15 Provide a site-specific erosion and sedimentation control plan.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
6.16 A copy of the for-construction (or as-built) design drawings for the wastewater facility, including the discharge works, certified, signed and stamped by a qualified professional;	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
6.17 Certification by Qualified Professionals - QP sign-off certifying that the wastewater facility as designed and/or as-constructed is capable of meeting the proposed discharge requirements	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
6.18 Specify the treatment design criteria including treatment capacity, retention times, and input and output water quality.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
6.19 Provide project and treatment system construction and commissioning schedule and related notification requirements.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
6.20 Provide a detailed description of any use of reclaimed water (effluent), including: <ul style="list-style-type: none"> • Provide a detailed description of the intended use • planned or potential public and/or worker exposure. • Evaluate the implications for effluent quality based on potential exposure and user safety. 	Required <input type="checkbox"/> Methods <input type="checkbox"/>		

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7 IMPACT ASSESSMENT			
7.1 Identify the receptors that may be at risk due to project related activities.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
7.2 Identify and justify spatial and temporal boundaries for effects predictions.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
7.3 Identify critical contaminant sources.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
7.4 Validate proposed effluent quality requirements based on a thorough assessment of discharge loading, cumulative effects against receiving environment criteria/guidelines.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
7.5 Summarize potential impacts by media and location, using tables.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
7.6 Illustrate graphically the pathways from contaminant sources to receptors.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
7.7 Summarize risk to surface, groundwater aquatic resources and general water users.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
7.8 Discuss risk reduction options and adaptive management strategies.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
7.9 Consider the potential cumulative effects of the discharge on the receiving environment when combined with other local activities and conditions.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
7.10 Identify the potential impacts of projected climate change scenarios on the projects operations, closure and post-closure phases.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
7.11 For impact assessment related to groundwater provide: <ul style="list-style-type: none"> • Provide predicted effects on groundwater, surface water, interaction between ground and surface water, water uses and receptors, • a conceptual model to describe the contaminant transport through groundwater or surface water from source to receptors and establish a risk assessment process. • Estimate probabilities of occurrence of each pathway/exposure combination, estimate risk and develop a matrix to manage risk. • Identify data gaps, and uncertainty in models, and how they will be addressed. 	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
7.12 For impact assessment related to surface water provide: <ul style="list-style-type: none"> • Describe and justify impact prediction approach, including study boundaries and assessment (e.g., drinking water quality; aquatic life) and measurement endpoints (chemical, toxicological or biological). • Identify key discharges, seepages, or disturbance regimes and associated contaminants. • Develop conceptual models or frameworks to describe the transport of key contaminants from source to receptors. • Describe and justify modelling methods to predict how surface water quantity and quality may be affected within, and downstream of, the property. Make calculations and tabulated data available for government review. • Describe predicted effects of project related activities on water balance, flows and water levels. 	Required <input type="checkbox"/> Methods <input type="checkbox"/>		

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<ul style="list-style-type: none"> Identify whether current regional trends or projected changes in stream flow or climate could potentially affect dilution, water management infrastructure, ability to provide sufficient water covers where required, etc. during and after the life of the project. Determine the extent of the initial dilution zone (IDZ) for all proposed discharges, including: methodology and rationale. Provide predicted incremental changes over existing receiving environment water and sediment quality at critical points in the receiving environment and during critical time periods. Conduct a sensitivity analysis for the water quality model that considers a range of hydro-climatic conditions (wet and dry events) that are representative of the streamflow variability in the project area. Identify sites, parameters and time periods, when water or sediment quality is expected to exceed B.C. Water Quality Guidelines, existing Water Quality Objectives, or provincial or federal Sediment Quality Guidelines. Demonstrate through a weight of evidence approach that effluents or seepages will not cause acute and/or chronic toxicity. Estimate probabilities of occurrence of each pathway/exposure combination and develop a risk assessment matrix or other process to prioritize and manage risk. Identify data gaps and uncertainties and describe how they would be addressed in adaptive management and environmental monitoring programs. Describe and discuss the potential for bioaccumulation or bioconcentration of contaminants, and the associated risk to assessment endpoints (i.e., fish health, fish reproduction, consumers of fish, etc.). Predict changes in aquatic resources at species, community and/or ecosystem levels as appropriate due to water quality and water quantity changes. Identify risks to other receptors, including wildlife, livestock, human health. 			
8 MONITORING PLANS			
8.1 Discharge Monitoring (source)	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
8.2 Conintuous Process Monitoring	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
8.3 Aquatic / Environmental Effects Monitoring Plan	Required <input type="checkbox"/> Methods <input type="checkbox"/>		

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8.4 Receiving Environment Monitoring Plan	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
8.5 Describe proposed data assessment techniques and reporting, including reporting frequency and content.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
8.6 Quality Assurance Requirements	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
9 MANAGEMENT PLANS			
9.1 Operations and Maintenance Manual – Detailed operational procedures and preventative maintenance program, operator training and qualifications, inspection schedule, inventory of replacement parts, description of automated systems, warnings and alarms, including response and notification procedures.,	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
9.2 Reclaimed Water Use Plan	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
9.3 Treatment Residuals Management Plan	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
9.4 Commissioning Plan - Contains the notification, operational procedures and monitoring required to commission the facility.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
9.5 Maintenance Start-up and Shutdown Plan	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
9.6 Contingency plan - Describes emergency procedures for the facility, stand-by or emergency power requirements, procedures for notifying a health officer when necessary, actions to take if the effluent fails to meet quality requirements, and alternate disposal or storage options (for reclaimed water when use is not possible)..	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
9.7 Episode Management Plan – spills, nuisance, litter, odour, fire, flooding, .	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
9.8 Effluent monitoring plan - the effluent and receiving environment monitoring program, including frequency, notification and reporting requirements	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
9.9 Irrigation Plan - Documents the timing of reclaimed water use, maximum application rate and growing season based on the crop or vegetation, site specific loading, and nutrient and metals limits.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
9.10 Odour Control Plan	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
9.11 Financial Security Plan	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
9.12 Closure Plan - In the case of a temporary treatment system, details	Required <input type="checkbox"/> Methods <input type="checkbox"/>		

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decommissioning procedures for the facility			
10 OTHER REQUIREMENTS			
10.1 Sewage Disposal (not Required if an MWR registration is being pursued as the MWR registration requirement address these concerns) Describe the disposal plan for sewage generated on-site,	Required <input type="checkbox"/> Methods <input type="checkbox"/>		
10.2 If sewage is proposed to be included in the effluent permit, provide justification and technical information supporting this discharge. Specify why sewage disposal is not proposed as a registration under the Municipal Wastewater Regulation.	Required <input type="checkbox"/> Methods <input type="checkbox"/>		

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Guidance Documents to be considered when determining Information Items. Required and appropriate Methods to be used:

- [British Columbia Field Sampling Manual for Continuous Monitoring and the Collection of Air, Air-Emission, Water, Wastewater, Soil, Sediment, and Biological Samples, BC Ministry of Water, Land and Air Protection, 2013¹](#)
- [Effluent Permitting Process under the Environmental Management Act – An Overview for Mine Project Applicants, BC Ministry of Environment, April 2013²](#)
- [Developing a Mining Sediment and Erosion Control Plan, BC Ministry of Environment, December 2014](#)
- [Guidance for Assessing the Design, Size and Operation of Sedimentation Ponds Used in Mining \(draft\), BC Ministry of Environment, Lands and Parks, May 9, 2001³](#)
- [Guidance on Applications for Permits Under the Environmental Management Act – Technical Assessment, BC Ministry of Environment, September 10, 2010⁴](#)
- [Guidelines for Groundwater Modelling to Assess Impacts of Proposed Natural Resource Development Activities, BC Ministry of Environment, April 2012⁵](#)
- [Manual of British Columbia Hydrometric Standards v.1, Ministry of Environment, March 12, 2009⁶](#)
- [Technical Guidance 6 on Contaminated Sites – Water Use Determination, Version 2, Ministry of Environment, July 2010.](#)
- [Terms of Reference Environmental Impact Assessment And Technical Assessment Report for Environmental Management Act Effluent Permit Applications, BC Ministry of Environment, 2014](#)
- [Water and Air Baseline Monitoring Guidance Document for Mine Proponents and Operators, BC Ministry of Environment, October 9, 2012⁷](#)

¹ <http://www2.gov.bc.ca/gov/content/environment/research-monitoring-reporting/monitoring/sampling-methods-quality-assurance/bc-field-sampling-manual>

² http://www.env.gov.bc.ca/epd/industrial/mining/pdf/effluent_permitting_guidance_doc_mining_proponents_apr2013.pdf

³ http://www2.gov.bc.ca/assets/gov/topic/C0188F632AEC266B044F8A2B756F055F/industrial_waste/settling_ponds.pdf

⁴ <http://www2.gov.bc.ca/gov/DownloadAsset?assetId=7AD12B8CF1B94CF29619BD9871FB5740&filename=assessment.pdf>

⁵ http://www.env.gov.bc.ca/wsd/plan_protect_sustain/groundwater/groundwater_modelling_guidelines_final-2012.pdf

⁶ http://www.for.gov.bc.ca/hts/risc/pubs/aquatic/hydrometric/man_BC_hydrometric_stand_V1.0.pdf

⁷ http://www2.gov.bc.ca/gov/DownloadAsset?assetId=E49A49E800814C8FB2D6868B7F119AD6&filename=water_air_baseline_monitoring.pdf