

Hells Gates Dam Feasibility Progress Report #1

Reporting Period: May-July 2017

On the 15 May 2017, Townsville Enterprise appointed a consortium of Townsville businesses, led by the Snowy Mountains Engineering Company (SMEC), to undertake the feasibility study for the proposed Hells Gates Dam.



The SMEC consortium proposal incorporates 6 milestones.

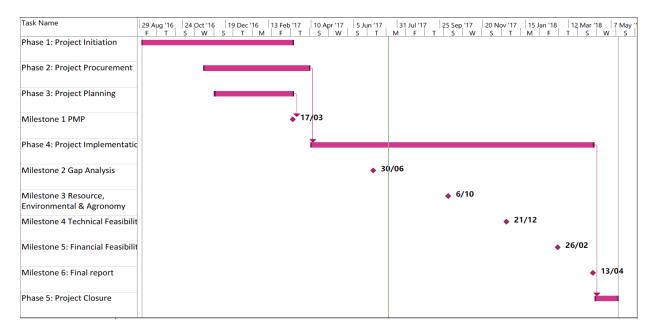
Milestone #	Milestone Overview							
Milestone 1: Project	Project inception workshops (Townsville and Charters Towers) & finalisation of							
Inception and Planning	consultancy project plan based on Grant Deed, Consultancy Agreement &							
	outcomes of Project Inception Workshops.							
Milestone 2:	Detailed review of previous literature, studies, reports & findings. Identify							
Information	design (engineering), hydrology, geotechnical, hydraulic, cost information &/or							
Identification and Gap	reliability gaps. Outline risk & proposed process/methodology/approach to							
Analysis	redress gaps to ensure information currency, relevance & reliability.							
Milestone 3: Agronomy	Assessment of regional agronomy (land & crop capability), water demand &							
assessment and Water	impact on applicable statutory water resource plan & resource operations							
Resource,	plan under the <i>Water Act 2000</i> & details on the approach, potential actions							
Environmental and	required to comply & potential implications for future water planning							
Social Impact Analysis	activities. Identification & assessment of the environmental, and indigenous							
	interests (native title & cultural) considerations & impacts.							
Milestone 4: Technical	Technical feasibility assessment of: water storage; hydro energy; water							
Feasibility Analysis	transport; agribusiness; &, support infrastructure requirements, options,							
	design & cost.							
Milestone 5: Financial	Financial/Social Feasibility (Cost Benefit Analysis), Economic Impact							
Feasibility and	Assessment (Input/Output Analysis) and sustainability evaluation of the							
Economic Impact	project based on Building Queensland Preliminary Business Case framework.							
	Investment Development Pathway analysis.							
Milestone 6: Final	Final Hells Gates Dam Feasibility Assessment incorporating the key							
Feasibility Report	considerations, factors and findings from Milestones 2 through 5.							

The Study will be complete in April 2018 in line with the project schedule below.

	May 17	Jun 17	Jul 17	Aug 17	Sep 17	Oct 17	Nov 17	Dec 17	Jan 18	Feb 18	Mar	Apr 18
											18	
Milestone 1												
Milestone 2												
Milestone 3												
Milestone 4												
Milestone 5												
Milestone 6												

Progress during reporting period:

The Hells Gates Dam Feasibility Study is on schedule with SMEC having delivered Milestones 1 and 2 and starting on Milestone 3.



Milestone 1: Project Inception and Planning

Project inception workshops (Townsville and Charters Towers) & finalisation of consultancy project plan based on Grant Deed, Consultancy Agreement & outcomes of Project Inception Workshops.

Milestone deliverables:

- 3-day Inception workshop of project personnel and stakeholders with site visit
- Project Management Plan incorporating: Approvals and Revisions; Governance; Communication and Reporting; Objectives and Scope; Project Milestones (Deliverables); Project Schedule; Project Payment Schedule; Project Stakeholders Communication and Relations; Risk Management Plan.

Status = Complete.

Milestone 2: Gap Analysis

Detailed review of previous literature, studies, reports & findings. Identify design (engineering), hydrology, geotechnical, hydraulic, cost information &/or reliability gaps. Outline risk & proposed process, methodology and approach to redress gaps to ensure information currency, relevance & reliability.

Milestone deliverables:

- Gap Analysis Workshop
- Digital copy of all reports, information, investigations, or data obtained as part of this milestone
- Gap Register ranking criticality of missing information and options for addressing gap
- Updated risk management analysis incorporating identified information risks and mitigation measures
- Report discussing the outcomes of the gap analysis, including recommendations for further action.

Status = Complete.

Milestone 3: Agronomy, Water Resource and Environmental Analysis

The SMEC consortium has commenced activities and tasks associated with Milestone 3. These activities are significantly field based with a focus on: -

- Topography (LiDAR collection)
- Water resource assessment quantity, reliability and quality. Terrain and IQQM modelling to determine flow, yield and reliability
- Environmental assessment potential effects of inundation, land use change and agricultural activities with focus on: matters of State and National Environmental Significance; effects on the environmental values and water quality objectives; potential effects on Great Barrier Reef (Reef 2050 & Reef Water Quality Protection Plan 2013); mitigation measures and approvals pathway
- Land tenure and Native Title land tenure status, impediments and risks and Native Title interests. Determine project footprint and current land tenure and Native Title interests; high-level assessment of tenure and title requirements; land planning (Planning Scheme) impediments; impact on Native Title
- Cultural heritage Indigenous and other. Cultural heritage review, processes and procedures; and, traditional owner consultation
- Soil and environmental suitability land use and water demand. Soil and land survey; crop suitability and market assessment; irrigation and crop production risk; best fit land use; environmental risk assessment
- Water market assessment supply and demand analysis based on best fit land use & crop assessment

Milestone Deliverables:

- Environmental Assessment Report
- Water Resources Report
- Produce a Land Tenure Report
- Indigenous Interest Report
- Land Capability Assessment Report
- Crop Determination Report

Status = Commenced (Due 6/10)

Milestone 3 involves significant consultation with major stakeholders with a focus on landholders; Indigenous groups; and, state and local authorities. Field work will be undertaken including cultural and environmental observation, LiDAR collection (aircraft) and soil sampling. The first of a series of briefings will be provided to Federal and State Ministers and Members of Parliament and a public meeting will be convened (Charters Towers 8/8) to brief interested members of the public on the scope and objectives of the study and activities and tasks required to deliver the study.

Project Contacts:

Further information on the Hells Gates Dam Feasibility Study are available by contacting the Project Manager on hellsgate@tel.com.au or telephone 0408 190 751.