

MANAWATU DISTRICT COUNCIL

Himatangi Beach Community Sewage Scheme Wastewater Treatment Pond Civil Works

PRELIMINARY SCHEDULE OF QUANTITIES

28 March 2012

Note: Cost Estimate applies to construction of a combined facultative and floating wetland treatment pond area. The floating wetland is to be supplied and installed by a specialist supplier. Refer to CPG Drawing No. 705434 Sheets WW-01 to 04.

Abbreviations:

NR - Not Required - refer to others scope of work

TBC - To Be Confirmed

c/w - complete with

Provided by CPG NZ Ltd

Prepared by G M Dent

Reviewed N Deo

Job No. 705434

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1.00	Preliminary and General				
1.01	Fixed charges for site establishment and all mobilisation activities not measured elsewhere	LS	1		
1.02	Setting out	LS	1		
1.03	Insurances, bonds, fees, permits	LS	1		
1.04	Provision of as-built information and Producer Statement	LS	1		
1.05	Reports and meetings	LS	1		
1.06	Quality management, quality plan, health & safety, testing	LS	1		
1.07	Construction Management Plan, including allowance for review and agreement with the Engineer	LS	1		
1.08	Implement, maintain and inspect erosion/sediment control measures for the duration of construction. Additional measures to ensure compliance with Resource Consent conditions	LS	1		
1.09	At the completion of pond construction remove all excess materials, plant and tidy the site including repair of the access track, make good any damage including to fencing.	LS	1		
Subtotal of Preliminary and General Carried to Summary					
2.00	Earthworks and Pond Formation				
2.01	Site clearing and removal of vegetation, remove existing fence across pond location and all other materials not required as part of the pond construction and other work on the site.	LS	1		
2.02	Strip Pond Site and access track topsoil to stockpile	m ²	24,200		
2.03	Cut to fill from pond floor and access track to pond embankments including placing, compaction, trimming and work required in preparation for placing the liner. This rate includes for all care required to maintain the trimmed surface for placement of the liner.	m ³	5,500		
2.04	Access track - Supply, form, compact and trim basecourse (300mm layer GAP40 general purpose granular material) and running course for the access track.	m ²	1,680		
2.05	Uplift sand fill material supplied from a stockpile on the site and place in the pond embankments, compact and trim ready for placement of the liner. This rate includes for all care required to maintain the trimmed surface for placement of the liner.	m ³	500		
2.06	Remove topsoil from stockpile and respread on top and outer batters of the pond embankment	m ³	700		

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2.07	Uplift (excess) topsoil from stockpile and fill to the outer batters of the pond embankments and elsewhere on the site as directed by the Engineer including compaction and trimming	m ³	2,930		
2.08	Regrass all disturbed areas including ground preparation, seeding and maintenance of the grass for 3 months	m ²	4,800		
2.09	Extra over costs at borrow site to strip topsoil and replace. (Provisional)	LS	NR		
2.10	Where directed by the Engineer - excavation of unsuitable material and disposal on site and backfilling from suitable materials on site including compaction, trimming, (Provisional)	m ³	100		
2.11	Excavation, reinstatement and compaction of excavated or other suitable backfill material to anchor trenches around the top of the pond embankment.	m	578		
2.12	Liner - Supply and install 2 mm thick HDPE Membrane (as per the drawings) including all cutting, trimming and waste material, welding of the material, placing the liner to the pond and anchor trenches and all temporary work required for completing the liner.	m ²	20,000		
2.13	Membrane under drainage system for gas pressure relief including provision of venting pipework and post at each of the 4 corners of the pond. 150 Megaflo in filter sock laid on flat side on top of sand under the liner across the pond as indicated in the drawings.	m	2,950		
2.14	Supply and place sand tubes for holding down membrane in the Storage Pond as per drawings. Any additional sand tubes as required by the Contractor for temporary works during construction are to be allowed for in the liner supply and instal rate.	m	630		
2.15	Supply and install Geo-tech safety ladders - details TBC	No.	12		
2.16	Allow for the supply and installation of Aerator(s) at the Facultative Pond.	No.	By others		
2.17	Allow for the electrical supply and connection requirements to the Aerator(s).	No.	By others		
2.18	Allow for the supply of all materials and construction of access steps for maintenance of and access to the Aerators, including any PE attachments and handrails - details TBC	LS	<i>By others</i> Detail TBC		
2.19	Supply and install site pond fencing - 7 wire farm fence.	m	730		
2.20	Floating wetland including all baffles, anchors and any other requirements for its establishment.	m	By others		
2.21	Supply and install gates c/w chain and pad lock at the entrance to the site as shown on the drawings	ea	2		
Sub Total of Earthworks and Pond Formation Carried to Summary					
3.00	Pipework				
3.01	Construct Pond Inlet weir chambers	No.	NR		
3.02	Supply and install valves at the inlet chambers.	No.	NR		
3.03	Construct Pond outlets.	No.	NR		
3.04	Supply and install valves at Pond Outlets as shown.	No.	NR		
3.05	Supply, and install, complete with joints, bends, fittings, bedding and backfill the inlet and outlet pipelines at the Ponds as shown in the drawing.	m	NR		