

## Lucinda Scorgie

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**From:** Neil Scott-Williams [neil@subtech.co.za]  
**Sent:** Friday, July 18, 2008 8:07 AM  
**To:** 'Peter Munns'  
**Cc:** Lucinda Scorgie; William Moore  
**Subject:** Peter Munns.doc

Hi Peter

Attached is the proposal as discussed. I would like to have spent a lot more time on it as this is the "nice stuff" but with the things as busy as they are I though I should get something through.

The rates quoted are standard selling rates and are open to discussion should te work proceed. Amount of detail can also be beefed up on the method statement but this is just a time thing.

Have a look at it and feel free to call me.

Regards

Neil

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**PETER MUNNS**

Ref: sal  
Date: 16 July, 2008

Dear Sir

**RE: SITE INVESTIGATION AND EXCAVATION, CAPE VIDAL, WRECK "DOROTHEA"**

We thank you for the opportunity to participate in the above tender, and we have pleasure in submitting a quote for the investigation and excavation of the wreck site of the "Dorothea"

This proposal outlines a possible method of locating and excavating the site of the "Dorothea".

**Method**

The work is to be divided up into a number of phases, each influencing the methodology to be applied to the next. The proposal does not make detailed reference to archaeological process.

- Site Location
- Site excavation
- Cargo recovery

The system quoted for below will be suitable for depths of up to 10m after which a decompression chamber will be required on site and will result in extra cost. Obviously as we go deeper productivity will drop due to the reduced dive times and it may become necessary to add additional divers to the team.

**Phase 1:- Site Location**

It is well documented that the vessel grounded off the reef at Cape Vidal and there are many anecdotal references to ships structure being exposed during periods of sand scouring behind the reef on clear days. Prior to the mobilization of the bigger plant and equipment required for the excavation we need to collect and map as much information as possible. This will be done in the following manner;

- Desktop study, investigate all records and persons having information regarding the whereabouts of wreckage and artefacts, sand movements, weather patterns etc
- Overflight, during period of clear water, low tide and calm seas, fly over the area and photograph the reef and surrounds for later study.
- Diving survey, during periods of calm seas and clear water, swim the backline and map any artefacts of note
- Magnetometer survey, tow a magnetometer along the backline to record magnetic anomalies
- Metal detector on reef, on spring low tide walk across the reef with metal detector looking for magnetic anomalies or visible signs of the wreckage

All the above information is to be captured into a GIS (Global Information System) highlighting areas of probability. This information will then be analyzed in the planning of the next phase, Site excavation.

**Phase 2:- Site Excavation**

This area is well known for its sand movement and it is highly likely that significant wreckage will be exposed, particularly artefacts with a higher SG as they will work their way down to the bedrock.



Using a system similar to that used for the marine mining of diamonds on the SA West Coast, dredge the sand thereby exposing the bedrock and any artefacts. Dredged material can be run through a classifier which will remove any large objects for scrutiny.

As we are looking for cast concrete blocks we expect to see regular shapes or structure.

Exposed area will be mapped and photographed.

### Phase 3:- Artefact Identification and Recovery

We expect the cast concrete to be intact and reasonable heavy. Lifting techniques will depend on the size of the artefact and depth of water but will include lift bags, camel bags and cranes

### Mobilization / Demobilization of equipment:

The equipment will be mobilized and demobilized in Durban.

### Budgetary Rates

Phase 1	Research		R25,500 sum
	Overflight		R 6,500 sum
	Dive Survey	Double Cab 4x4	R 1,000/day
		8m RIB	R 2,500/day
		Dive Supervisor	R 3,500/day
		3 x Divers	R 5,400/day
		Skipper	R 1,800/day
		Shallow water dive spread	R 1,800/day
		Camera Equipment	R 450/day
		Estimated Duration 3 days	
	Magnetometer Survey	Magnetometer	R 1,750/day
		Surveyor	R 5,600/day
		Double Cab 4x4	R 1,000/day
		8m RIB	R 2,500/day
		Estimated Duration 1 days	
	Report and Mapping		R12,000 sum
Phase 2		Vessel	R18,500/day
		Shallow water dive spread	R 1,800/day
		Dive Supervisor	R 3,500/day
		3 x divers	R 5,400/day
		Skipper	R 1,800/day
		Dredge System	R 4,500/day
		8m RIB	R 2,500/day
		Double Cab 4x4	R 1,000/day
		Estimated Duration 7 days	
Phase 3		Vessel	R18,500/day
		Shallow water dive spread	R 1,800/day
		Dive Supervisor	R 3,500/day
		3 x divers	R 5,400/day
		Skipper	R 1,800/day
		Dredge System	R 4,500/day
		8m RIB	R 2,500/day
		Double Cab 4x4	R 1,000/day
		Estimated Duration 21 days	
	Decompression Chamber (if required)		R1,750/day

**Qualifications:**

- All permits to work are to be supplied by client
- EIA for clients account
- All rates will be charged from time of mob in Durban to time of demob in Durban
- All rates for equipment are dry rates
- The above time estimations are purely for budgetary purposes and exclude down time due to unfavourable environmental conditions.
- Weather days will be charged at 80% of the above rates
- Accommodation, when necessary, is to be supplied by client
- This quotation is valid for 30 days.
- All equipment subject to availability
- All disbursements charged at cost +15%
- Company overhead and administration costs charged at 12% of total monthly measure
- Monthly invoice payable on 30 days without retention
- All of the above subject to mutually agreeable terms and conditions
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Subtech is an ISO 9001:2000 accredited company and we work to the highest international safety standards. We trust that we have interpreted your requirements correctly and look forward to hearing from you. Should you require any further information regarding the above please contact us on the numbers provided.

We hope you find the above in order.

Yours faithfully

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**Neil Scott-Williams**  
For SUBTECH (PTY) LTD

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