



**Quaternary Resource Investigations, LLC**

13588 Florida Boulevard  
 Baton Rouge, LA 70819  
 Phone: (225) 292.1400 Fax: (225) 292.1404  
 Website: www.qri.com

**Proposal**

Date	Estimate #
10/19/2012	3840

Name / Address
Dammon Engineering, Inc. Robert Wiltse 554 Old Spanish Trail Slidell, LA 70458

Terms
Net 30

Item	Description	Qty	Rate	Total
	REQUEST FOR PROPOSAL #001, DRAINAGE MAPPING SURVEY for Bridge City Center for Youth			
	Geophysical Survey Services at the Bridge City Center for Youth facility, 3225 River Rd., Bridge City, LA. Survey includes locating of underground sewer drainage system including lines, manholes, lift stations, grease traps, etc., from all existing buildings within the property boundaries, area size contains 25 acres and thirty-two buildings.			
	Dual technology geophysical subsurface utility locating (GPR + EM Utility Locator).			
	Estimated at 4 days:			
Data Acquisition	Ground Penetrating Radar (GPR) + EM Utility Locator data acquisition, day rate; min. 1 day.	5	2,850.00	14,250.00
Data Interpret/...	Data Interpretation & Reporting, Est. 40 hours @ \$90.00 = \$2,700.00	40	90.00	3,600.00
Mobilization	Mobilization/demobilization - Lump Sum	1	500.00	500.00
	TOTAL			18,350.00
	Scope - Locate and map all potential subsurface utilities at the above described project as specified by client. QRI offers the following technologies to discover subsurface utilities: 1. Ground penetrating radar (GPR) to locate utilities, voids, underground storage tanks, electric lines and PVC or non-metallic gas, water and sewer pipes, subsurface vaults, etc. GPR technology can, under normal soil conditions, detect metallic and non-metallic pipes over 3 inches in diameter that are within approximately 10 feet of the surface and provide approximate depths. 2. Standard EM utility locator equipment to trace tonable active and inactive electric utilities. The locator can be used to find sewer and water pipes if pipes are metallic. Approximate depths can be provided with this equipment. Deliverables 1. Designated subsurface electrical utilities will be marked in the field			

Proposal Accepted/Notice to Proceed

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	<p>using high-visibility marking paint following the ULCC Uniform Color Code and NULCA's underground facility marking standards (where the identity of the utility can be ascertained). Where utilities are visible at the surface, but are not tonable, marking paint will be used to communicate surface entrance and type of untonable utility.</p> <p>2. A detail report can be delivered 7-10 days after data acquisition.</p> <p>Other Considerations</p> <p>1. Surveying (by a PLS) is not included in this cost proposal.</p> <p>2. Some areas of this site may be inaccessible; therefore, those areas cannot be surveyed. Inaccessible areas will be depicted on the report as such. GPR data acquisition surfaces must be smooth (grass, concrete, shell, gravel, etc.) and grassy areas must be cut to within 6" of ground surface.</p> <p>3. Services and resulting interpretations provided by QRI shall be performed with our best professional efforts. Because depth of penetration is dependent upon the electrical properties of the material(s) probed and interpretations are based on inference from acquired radar and/or other data, QRI does not guarantee the accuracy or correctness of interpretations. Saturated soils and soils with high clay content can affect the GPR data. Disturbed soils (recently excavated, tilled, or plowed) can affect GPR data.</p> <p>4. While some equipment has the capability of giving depths to utilities or objects without physical exposure, these equipment depths are based on calculations performed by the measuring equipment and are highly dependent upon soil and utility/object conditions. Equipment depths may be in error by 100% or more. QRI makes no warranty to the accuracy of depths supplied without physical exposure. Some utilities may be unlocatable or untonable under any circumstance. QRI makes no guarantees that all subsurface utilities will be designated or the accuracy of the designation.</p> <p>5. QRI will not be held liable for any damage to facilities or grounds due to the inspection operation. QRI will not accept liability or responsibility for any loss, damages, or expenses that may be incurred or sustained by any services or interpretations performed by QRI or others.</p>			

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