

Estimated Cost: Further Evaluation Monitor Natural Attenuation

I. Further Evaluation						
Well Installations						
TIME FRAME: One (1) Year						
Item	Description	Unit Cost	Quantity	Cost	Source	
Project Management	Field Work Preparation, GIS Mapping and Review of Data per Sampling Event	\$1,900.00	1	\$1,900.00	Professional Judgement and Actual Costs	
On Site Project Manager	Senior Hydrogeologist	\$150.00	8	\$1,200.00	HET	
Installation of Nine (9) two (2) inch Monitor Wells	HET Time, Equipment and Materials	\$59,368.05	1	\$59,368.05	Professional Judgement and Actual Costs	
Solid Waste	Disposal and transportation of drill cuttings	\$1,500.00	1	\$1,500.00	Professional Judgement	
Survey of Wells	Subcontracted Surveying	\$2,500.00	1	\$2,500.00	Professional Judgement and Actual Costs	
Subtotal:				\$66,468.05	Subtotal	
20% Contingency:				\$13,293.61	20% Contingency	
Total Estimated Cost:				\$79,761.66	Total Estimated Cost	

II. Groundwater Monitoring and Reporting						
TIME FRAME: Three (3) Years to begin after completion of Aquifer Feasibility Study						
Item	Description	Unit Cost	Quantity	Cost	Source	
Project Management	Field Work Preparation, GIS Mapping and Review of Data per Sampling Event	\$1,900.00	12	\$22,800.00	Professional Judgement and Actual Costs	
Water Well *	Water well to be installed to deeper portion of aquifer	\$4,400.00	1	\$4,400.00	Matthieu's Water Well Drilling, Inc.	
Quarterly Groundwater Monitoring and Sampling	Monitoring and Sampling of 45 Monitor Wells	\$26,608.25	12	\$319,299.00	Professional Judgement and Actual Costs	
Laboratory Analytical	Laboratory Analyses of forty-five (45) Water Samples @ \$500.00 per sample	\$22,500.00	12	\$270,000.00	Professional Judgement and Actual Costs	
Annual Report Preparation	Monitoring Data, GIS Figures, Data Tables	\$7,500.00	3	\$22,500.00	Professional Judgement and Actual Costs	
Subtotal:				\$638,999.00	Subtotal	
20% Contingency:				\$127,799.80	20% Contingency	
Total Estimated Cost:				\$766,798.80	Total Estimated Cost	

*Water well to be installed to a deeper portion of the aquifer (IF NESECCARY) - \$4,400 (Matthieu's Water Well Drilling, Inc.)

III. Closure and P&A of Wells						
TIME FRAME: Six (6) Months to begin after Post Remediation Monitoring						
Item	Description	Unit Cost	Quantity	Cost	Source	
Closure Report	Post Remediation Monitoring Data and Closure Report	\$10,000.00	1	\$10,000.00	Professional Judgement and Actual Costs	
P&A of HET Monitor Wells: twenty (20) two (2) inch wells	HET Time, Equipment, and Materials	\$61,192.40	1	\$61,192.40	HET/Walker Hill - Professional Judgement and Actual Costs	
P&A of ICON Monitor Wells: twenty-seven (27) 0.75 inch wells	HET Time, Equipment, and Materials	\$60,172.70	1	\$60,172.70	HET/Walker Hill - Professional Judgement and Actual Costs	
Subtotal:				\$131,365.10	Subtotal	
20% Contingency:				\$26,273.02	20% Contingency	
Total Estimated Cost:				\$157,638.12	Total Estimated Cost	

TOTAL ESTIMATED COSTS SUMMARY						
Item	Description	Unit Cost	Quantity	Cost	Source	
I. Further Investigation A.) Well Installations				\$79,761.66		
II. Groundwater Monitoring and Reporting				\$766,798.80		
III. Closure and P&A of Wells				\$157,638.12		
TOTAL ESTIMATED COSTS				\$1,004,198.58	TOTAL ESTIMATED COSTS	