

APPENDIX G
ADDITIONAL GROUNDWATER ASSESSMENT
DOCUMENTATION

COST ESTIMATE FOR ADDITIONAL INVESTIGATION (30-FOOT ZONE MONITORING 40 YRS)
Henning Management LLC v Chevron USA Inc, et al; 31st JDC, Div "C"; Docket No. 73318
Hayes Field, Calcasieu and Jefferson Davis Parish, Louisiana
Prepared for MUDD, BRUCHHAUS, & KEATING LLC

Time by Task	Cost per Unit	Number of Units	Markup (20%)	Total (\$)
<u>Mob/Demob Equipment (One Time Event)</u>				
Equipment (Mob/Demob) (Drill Rig)	\$3,500.00 /unit	1 unit		\$3,500
Equipment (Mob/Demob) (Geoprobe)	\$1,500.00 /unit	1 unit		\$1,500
			SUBTOTAL	\$5,000
<u>Installation of Additional Assessment Monitoring Wells in Bed A (one well NW Corner of Area 2 ~ 40' bls)</u>				
Direct Push Well Installation	\$71.00 /foot	40 feet		\$2,840
Direct Push Conductivity Probe	\$55.00 /foot	40 feet		\$2,200
Grouting Conductivity Probe Hole	\$16.00 /foot	40 feet		\$640
Conductivity Logging System	\$500.00 /day	1 days		\$500
Completion	\$120.00 /per well	1 well		\$120
Mileage (support trucks)	\$125.00 /day	1 days		\$125
Hotel (2 rooms)	\$260.00 /night	1 nights		\$260
Per diem (4 people)	\$120.00 /day	1 days		\$120
			SUBTOTAL	\$6,805
<u>Installation of Additional Assessment Monitoring Wells in Bed A and Bed B for Background (5 wells to ~ 40' bls and 5 wells to ~60' bls)</u>				
Direct Push Well Installation	\$71.00 /foot	500 feet		\$35,500
Direct Push Conductivity Probe	\$55.00 /foot	300 feet		\$16,500
Grouting Conductivity Probe Hole	\$16.00 /foot	300 feet		\$4,800
Conductivity Logging System	\$500.00 /day	7 days		\$3,500
Completion	\$120.00 /per well	10 well		\$1,200
Mileage (support trucks)	\$125.00 /day	7 days		\$875
Hotel (2 rooms)	\$260.00 /night	7 nights		\$1,820
Per diem (4 people)	\$120.00 /day	7 days		\$840
			SUBTOTAL	\$65,035
<u>Installation of Additional Assessment Monitoring Wells in Bed B (one well NW Corner of Area 2 ~ 55' bls and 6 wells in Area 4 ~ 55' bls)</u>				
Direct Push Well Installation	\$71.00 /foot	385 feet		\$27,335
Direct Push Conductivity Probe	\$55.00 /foot	385 feet		\$21,175
Grouting Conductivity Probe Hole	\$16.00 /foot	385 feet		\$6,160
Conductivity Logging System	\$500.00 /day	5 days		\$2,500
Completion	\$120.00 /per well	7 wells		\$840
Mileage (support trucks)	\$125.00 /day	5 days		\$625
Hotel (2 rooms)	\$260.00 /night	5 nights		\$1,300
Per diem (4 people)	\$120.00 /day	5 days		\$600
			SUBTOTAL	\$60,535
<u>Installation of Additional Assessment Monitoring Wells in in Chicot by blowout well (CNB#1 sn25340)(~150' bls)</u>				
Well Installation	\$6,500.00 /day	2 days		\$13,000
2" PVC Well Material	\$16.00 /foot	150 feet		\$2,400
Completion	\$650.00 /per well	1 well		\$650
Mileage (support trucks)	\$125.00 /day	2 days		\$250
Hotel	\$130.00 /night	2 nights		\$260
Per diem	\$30.00 /day	2 days		\$60
			SUBTOTAL	\$16,620
<u>Groundwater Sampling (sampling Per Event)</u>				
Geologist	\$115.00 /hour	80 hours		\$9,200
Technician	\$65.00 /hour	80 hours		\$5,200
Analytical (RCRA metals, TDS, BTEX, TPH-G, TPH-D/O)	\$328.00 /sample	19 sample	\$1,246.40	\$7,478
Analytical (Radium 226/228)	\$70.00 /sample	19 sample	\$266.00	\$1,596
Analytical (Alkalinity, Mercury, Sulfate, Bromide, Chloride)	\$180.00 /sample	19 sample	\$684.00	\$4,104
Cond/Temp/Ph Meter	\$40.00 /day	10 day		\$400
DO Meter	\$40.00 /day	10 day		\$400
Turbidity Meter	\$35.00 /day	10 day		\$350
Water Level Meter	\$15.00 /day	10 day		\$150
Grunfos Pump and Controller	\$125.00 /day	2 day		\$250
Peristaltic Pump	\$125.00 /day	10 day		\$1,250
Master Flex	\$4.00 /foot	8 feet		\$32
Vinyl Tubing	\$0.50 /foot	590 feet		\$295
Hotel	\$130.00 /night	6 nights		\$780
Per diem	\$30.00 /day	6 days		\$180
Mileage	\$0.82 /mile	600 miles		\$492
55 gallon drum	\$95.00 /drum	2 drum		\$190
100 gallon plastic containers (4 per day)	\$40.00 /day	6 days		\$240
			SUBTOTAL	\$32,587
<u>Groundwater Disposal (Purge water 55 gallons)</u>				
Geologist	\$95.00 /hour	2 hours		\$190
Groundwater Disposal (R360 Liquids)	\$0.21 /gallon	500 gallons	\$21.00	\$126
Transportation to R360	\$525.00 /load	1 load	\$105.00	\$630
			SUBTOTAL	\$946

TOTAL:	\$122,493
---------------	------------------