DRUM MINESITE - ESTIMATED COST FOR CHARACTERIZATION SAMPLING

SITE	NUMBER COMPOSITED SAMPLES	SAMPLE PREP	MWMP/ NDEP PROFILE II $675 EA.	STATIC TEST AGP-ANP $100 EA.	MOISTURE CONTENT WAD CN $55 EA.	PERMEABILITY POROSITY RETENTION $370 EA.	EXCAVATOR TIME (HR.)	EXCAVATOR COST $70/HR	GROWTH MEDIA $92 EA.	BACKHOE COST $40/HR	NDEP PROFILE II $550 EA.	SUPPLIES	TOTAL COST
WSMC													
W1	1	$12.50	-	$100.00	-	-	5.0	$350.00	-	-	-	$18.40	$480.90
W2	1	$12.50	-	$100.00	-	-	5.0	$350.00	-	-	-	$18.40	$480.90
W3	1	$7.50	-	$100.00	-	-	3.0	$210.00	-	-	-	$11.04	$328.54
W7	1	$7.50	-	$100.00	-	-	3.0	$210.00	-	-	-	$11.04	$328.54
LG1	1	$50.00	$675.00	$100.00	$55.00	$370.00	6.0	$420.00	-	-	-	$73.60	$1,743.60
LG2	3	$112.50	$2,025.00	$300.00	$165.00	$1,110.00	13.5	$945.00	-	-	-	$165.60	$4,823.10
LG3	3	$112.50	$2,025.00	$300.00	$165.00	$1,110.00	13.5	$945.00	-	-	-	$165.60	$4,823.10
HG6	2	$75.00	$1,350.00	$200.00	$110.00	$740.00	9.0	$630.00	-	-	-	$110.40	$3,215.40
HG7	4	$150.00	$2,700.00	$400.00	$220.00	$1,480.00	18.0	$1,260.00	-	-	-	$220.80	$6,430.80
HEAP PERIMETER	1	$5.00	$675.00	-	-	-	-	-	-	-	-	$3.68	$683.68
GROWTH MEDIA	15	$30.00	-	-	-	-	-	-	$1,380.00	$400.00	-	$29.00	$1,839.00
TOTAL		$575.00	$9,450.00	$1,700.00	$715.00	$4,810.00	76.0	$5,320.00	$1,380.00	$400.00	$0.00	$827.56	**$25,177.56**
JUMBO													
HG1	2	$75.00	$1,350.00	$200.00	$110.00	$740.00	9.0	$630.00	-	-	-	$110.40	$3,215.40
HG2	2	$75.00	$1,350.00	$200.00	$110.00	$740.00	9.0	$630.00	-	-	-	$110.40	$3,215.40
HG3	2	$75.00	$1,350.00	$200.00	$110.00	$740.00	9.0	$630.00	-	-	-	$110.40	$3,215.40
HG4&5	3	$112.50	$2,025.00	$300.00	$165.00	$1,110.00	13.5	$945.00	-	-	-	$165.60	$4,823.10
BARREN POND	1	-	$675.00	-	-	-	-	-	-	-	$550.00	$10.00	$1,235.00
PREG POND	1	-	$675.00	-	-	-	-	-	-	-	$550.00	$10.00	$1,235.00
HEAP PERIMETER	3	$10.00	$2,025.00	-	-	-	-	-	-	-	-	$11.04	$2,046.04
GROWTH MEDIA	15	$30.00	-	-	-	-	-	-	$1,380.00	$400.00	-	$29.00	$1,839.00
TOTAL		$377.50	$9,450.00	$900.00	$495.00	$3,330.00	40.5	$2,835.00	$1,380.00	$400.00	$1,100.00	$556.84	**$20,824.34**
NET TOTAL		**$952.50**	**$18,900.00**	**$2,600.00**	**$1,210.00**	**$8,140.00**	**116.5**	**$8,155.00**	**$2,760.00**	**$800.00**	**$1,100.00**	**$1,384.40**	**$46,001.90**

OTHER COSTS:

SUPERVISION & LABOR: ESTIMATE 12 DAYS IN FIELD AND 4 DAYS TRAVEL AT 12 HOURS PER DAY.
Supervisor is taking samples and laborer is equipment operator. $30/hr. equals $5760. Subsistence for Supervisor and laborer at $80 per day is $2,560.

MOBILIZATION AND DEMOBILIZATION: Estimated at $5,000 total.

TRANSPORTATION: Sample delivery - two trips to Reno from Drum (960 miles round trip) at $1.25 per mile equals $2,400.
Travel to Drum - one trip Reno to Drum (960 miles round trip), one trip to Logan back to Drum (420 miles round trip), two vehicles twelve trips Delta to Drum (70 miles round trip) - total cost at $0.50 per mile is $1,530.

NOTES:

Sample Preparation includes blending, splitting and compositing.

MWMP (Meteoric Water Mobility Procedure) determines the capability of specific constituents (NDEP Profile II) to be mobilized by meteoric events.

NDEP Profile II test for: Alkalinity, Calcium, Magnesium, Potassium, Sodium, Chloride, Fluoride, Nitrate as N, Sulfate, Arsenic, Barium, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Selenium, Silver and Zinc.

STATIC TEST (Modified Sobek Method w/paste pH) tests for acid generating potential and acid neutralizing potential of the material.

GROWTH MEDIA testing includes: Texture, pH, EC, Saturation Percentage, SAR, Organic Matter, CEC, Alkalinity, $CaCO_3$, Sulfur, Selenium, Nitrogen, Nitrate, Phosphorous and Potassium.

SUPPLIES include buckets for collecting samples.

The BARREN and PREG Ponds will need to have both the solution and solids tested.

HEAP PERIMETER sampling is done to test the soils near the edge of the heaps to determine the native ground characteristics.

DRUM MINESITE - ESTIMATED COST FOR CHARACTERIZATION SAMPLING

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