Umetco Minerals Corporation



P.O. BOX 1029 GRAND JUNCTION, COLORADO 81502 & (970) 245-3700

June 8, 2011

Mr. Dominic Orlando, Project Manager U.S. Nuclear Regulatory Commission Fuel Cycle Facilities Branch Division of Fuel Cycle Safety and Safeguards Office of Nuclear Material Safety and Safeguards Mail Stop T-8-A-33 Two White Flint North, 11545 Rockville Pike Rockville, Maryland 20852-2738

Subject: Above Grade Tailings Impoundment and A-9 Repository Erosion Protection Enhancement Design Report

Reference: LicenseSUA-648, Docket No. 40-0299

Dear Mr. Orlando,

Pursuant to our telephone conversation of June 7, 2011, regarding the Gas Hills Erosion Protection Enhancement Design Report proposal, Umetco would like to make the following clarifications to NRC questions and comments:

1. At the height of construction activities Umetco expects approximately 20- to 25-people will be working 10-hours/day, 5-days a week, for approximately 4.5 months beginning on July 5, 2011. A preliminary construction schedule is attached to assist in scheduling NRC site inspections of the site during the summer of 2011.

2. The Type B riprap removal and replacement is included in Bid Item No. 5.4 – Remove and Replace Existing Type C Erosion Protection Riprap on the AGTI and A-9 Repository. Upon review the amount of Type B riprap (2,085-cubic yards) to be removed and replaced on the AGTI was not added into the total. The quantity for Bid Item 5.4 has been increased from 56,850–cubic yards to 58,950-cubic yards. The added 30/70 bedding material to be placed beneath the Type B riprap) was correctly included in Bid Items 5.1 and 5.2.

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3. Clarify AGTI area to receive the 30/70 bedding treatment, the drawing shows 42.8 acres but the quantity calculations only show 1,500,000-sf. The area to receive the 30/70 bedding material totals 1,487,337-square feet. This value added to the area of the access bands (401,277-square feet) equals 1,888,614-square feet. Forty two point eight acres (42.8-acres) equals 1,864,368-square feet. The difference is attributed to the slope correction factor considered in the detailed quantity determination.

4. The Unit Price Bid for Bid Item No. 10 - Fencing, represents the cost for installation of new fencing materials.

5. The value of 30,363.25 for Bid Item No. 8 – Stabilization of Off-Site Erosion Features has been included in the cost estimate.

6. Bid Item No. 11 -Site Reclamation includes the re-grading and shaping of all disturbed areas, including erosion enhancement areas. The Site will be returned to its existing condition.

7. The quantity for Bid Item 12.1 has been increased from 15,100-cubic yards to 17,910-cubic yards.

A revised Bid Schedule/Cost Estimate is enclosed which includes the corrections noted above and the actual Third Party Unit Prices bid (including overhead and profit) for the various Items of work on May 27, 2011. The revised estimate also includes a 12-percent mark up for URS Corp. oversight and a 15-percent mark up for contingencies.

Thank you for expediting the review process on this matter. If you have any questions, comments or require additional information please contact me at (970) 256-8889.

Sincerely,

Hunner Girch

Tom Gieck Remediation Leader TEG/jfc

Attachments: As stated

Cc: Mark Moxley - WDEQ, w/attachments

CONSTRUCTION SCHEDULE

| D Activity Name | lOri | Start | Finish | | 2011 | | | |
|---|--|------------------------|--|---------------------------------------|------|--|--|-------|
| | Du | | | Jun Jul | Aug | Sep | Oct | Nov |
| TI & A-9 Repository, Erosion Protection Enhancement | 12- | 27-May-11 | 21-Nov-11 | | | 1 | 1 | |
| Pre-Award Phase | 10 | 27-May-11 | 10-Jun-11 | | | 1 1 | 1 | |
| A100 Proposal Submittal | 0 | 27-May-11 | | dposal Submittal | | | | |
| A110 Proposal Review/Discussions | 10 | 27-May-11 | 10-Jun-11 | | | | | |
| A120 Contract Award/Notice to Proceed | 0 | | 10-Jun-11 | Contract Award/Notice to Proceed | | | | ***** |
| Pre-Construction Phase | 15 | 13-Jun-11 | 01-Jul-11 | | | | | |
| Planning Documents | NUMBER OF STREET, STRE | 13-Jun-11 | 01-Jul-11 | | | | | |
| A200 Finalize Work Plan Documents | | 13-Jun-11 | | | | 1 | 1 | |
| A210 Finalize Health & Safety Plan | | 13-Jun-11 | | | | | | |
| A220 Prepare Access/Haul Route Plan A230 Prepare Quarry Operations Plan | | 13-Jun-11 13-Jun-11 | | · · · · · · · · · · · · · · · · · · · | | | | |
| A240 Prepare Water Delivery Plan | | 13-Jun-11 | | | | 7. 10. | | |
| A250 Project Permitting | | 27-Jun-11 | | | | 8 8 | 1 | |
| Procurement | | 13-Jun-11 | | | | 4 | | |
| P100 Initial Purchase Orders Required Prior to N | | 13-Jun-11 | | | 1 | | | |
| P110 Initial Submittals for Approval | | 27-Jun-11 | | | | 2 | | |
| Construction Phase | | 05-Jul-11 | 11-Nov-11 | | | ž. | | |
| Mobilization & Site Preparation | | 05-Jul-11 | 25-Jul-11 | | | | | |
| C100 Mobilization / Setup Site Facilities / Site-Spo | | 05-Jul-11 | 11-Jul-11 | ₩ ₩ | | | | |
| C110 Install Erosion / Sediment Controls | 5 | | 18-Jul-11 | | | | | |
| C120 Site Fencing | 10 | 12-Jul-11 12-Jul-11 | 25-Jul-11 18-Jul-11 | | | | 1. 4 | |
| C130 Setup Crushing Equipment & Scales C140 Setup/Install Construction Water System | 5 | 12-Jul-11 | 18-Jul-11 | | | | | |
| C150 Construct Access/Haul Roads | 5 | 12-Jul-11 | 18-Jul-11 | | | | 1 | |
| C160 Establish / Verify Survey Controls | 2 | 08-Jul-11 | 11-Jul-11 | | | | <u>}</u> | |
| C170 Initial Topographic Survey | 5 | 12-Jul-11 | 18-Jul-11 | | | | | |
| C180 Construct Radon Barrier Test Trenches | | 19-Jul-11 | 22-Jul-11 | Fill | | | 100 A | |
| Erosion Protection Enhancement | | 19-Jul-11 | 14-Sep-11 | | I | - | i i | |
| C200 Process 30/70 Blended Bedding Mat'l | | 19-Jul-11 | 15-Aug-11 | | | | | |
| C210 Transport/Place 30/70 Blended Bedding M | | | 12-Sep-11 | | | an a | en de la companya de | |
| C220 Transport/Place Type A Bedding Mat'l on A C230 Remove & Replace Type C & Type B Ripra | | | 12-Sep-11 14-Sep-11 | N N N N N N N N N N N N N N N N N N N | | | | |
| Construct Launch Rock Filter Trench | | 21-Sep-11 | 04-Oct-11 | | | | 1 | |
| C300 Excavate Launch Rock Filter Trench | CONTRACTOR AND ADDRESS OF A DESCRIPTION OF A | 21-Sep-11 | Construction of the second states of the | | | , | 7. | |
| C310 Transport/Place 30/70 Mat'l in Launch Roc | | | 04-Oct-11 | | | | | |
| C320 Transport/Place Type A Mat'l in Launch Ro | | 26-Sep-11 | | | | | • | |
| C330 Transport/Place Type C Mat'l in Launch Ro | | 26-Sep-11 | | | | | 3 | |
| Construct Apron Channel | | 15-Sep-11 | | | | | | |
| C400 Construct Apron Channel | | 15-Sep-11 | | | | | | |
| Stabilization of Off-Site Features | | 05-Oct-11 | | | | | | |
| C500 Stabilization of Off-Site Erosion Features | | 05-Oct-11 | | | | | | |
| Site Restoration & Demobilization | President and the second s | 05-Oct-11 | ing to any other balances and | | 1 | ÷. | | |
| C600 Restore Site Roads & Other Disturbed Are | | 05-Oct-11 | | | 1 | 1 | | |
| C610 Incorporate Amendments to Soil Cover C620 Apply Fertilizer, Seed, and Mulch | 4 | 12-Oct-11 18-Oct-11 | | | 1 | | E | |
| C630 Remove Temp. Erosion Control Measures | | | 11-Nov-11 | | | | | |
| C650 Final As-Built Survey | 5 | 17-Oct-11 | | | | 1. 1. 1. 1. | L-alas | |
| C660 Final Inspection / Punchlist Completion | 5 | 21-Oct-11 | 27-Oct-11 | | 1 | 1 1 | Land Contraction | |
| C670 Remove all Temporary Facilities & Demobi | | 28-Oct-11 | | | | 10 10 10 | | |
| | 15 | 01-Nov-11 | | | | | | |
| Post Construction Phase F100 Project Closeout Documentation | | | 21-Nov-11 | | | | | |

Bid Schedule Sheet

for

East Gas Hills, WY, Erosion Protection Enhancement Project NRC Cost Estimate, May 9, 2011, Revised June 8, 2011

| Item | Reclamation Construction Task | Quantity | Unit | Third Party Unit Price Bid | Construction Oversight (12%) | Unit Cost w/Oversight | Amount in U. S. dollars |
|------|---|----------|----------------|----------------------------------|---|--------------------------|-------------------------|
| 1 | Mobilization / Demobilization | 1 | Lump Sum | \$151,032.22 | \$18,123.87 | \$169,156.09 | \$169,156.09 |
| 2 | Construction Water System and Dust Control During Construction | 1 | Lump Sum | \$102,261.88 | \$12,271.43 | \$114,533.31 | \$114,533.31 |
| 3 | Establish Access and Haul Routes | _ 1 | Lump Sum | \$216,460.79 | \$25,975.29 | \$242,436.08 | \$242,436.08 |
| 4 | Radon Barrier Test Trenches | 425 | Cubic Yards | \$61.88 | \$7.43 | \$69.31 | \$29,454.88 |
| 5 | Erosion Protection Enhance | ement 🦘 | () | CALIFY OF T | · • · · · · · · · · · · · · · · · · · · | | |
| 5.1 | Process 30/70 Blended Bedding Material | 18,800 | Cubic Yards | \$25.39 | \$3.05 | \$28.44 | \$534,611.84 |
| 5.2 | Transportation and Placement of 30/70 Blended Bedding Material on the AGTI and A-9 Repository | 17,875 | Cubic Yards | \$11.35 | \$1.36 | \$12.71 | \$227,227.00 |
| 5.3 | Transportation and Placement of Type A Bedding Material on the AGTI and A-9 Repository | 15,100 | Cubic Yards | \$10.56 | \$1.27 | \$11.83 | \$178,590.72 |
| 5.4 | Remove and Replace Existing Type C Erosion Protection Riprap on the AGTI and A-9 Repository | 58,950 | Cubic Yards | \$2.89 | \$0.35 | \$3.24 | \$190,809.36 |
| 5.5 | Transportation and Placement of 30/70 Blended Bedding Material in the Launch Rock Filter | 910 | Cubic Yards | \$11.81 | \$1.42 | \$13.23 | \$12,036.75 |
| 5.6 | Transportation and Placement of Type A Bedding Material in the Launch Rock Filter | 2,010 | Cubic Yards | \$10.85 | \$1.30 | \$12.15 | \$24,425.52 |
| 5.7 | Transportation and Placement of Type C Erosion Protection Riprap in the Launch Rock Filter | 1,700 | Cubic Yards | \$12.18 | \$1.46 | \$13.64 | \$23,190.72 |
| 5.8 | Transportation and Placement of Type A Bedding Material on the Apron Channel. | 800 | Cubic Yards | \$11.73 | \$1.41 | \$13.14 | \$10,510.08 |

Umetco Minerals Corporation

Bid Schedule Sheet Erosion Protection Enhancement Gas Hills, Wyoming

| Item | Reclamation Construction Task | Quantity | Unit | Third Party Unit Price Bid | Construction Oversight (12%) | Unit Cost w/Oversight | Amount in U. S. dollars |
|-----------|---|----------|----------------|----------------------------------|------------------------------------|---|----------------------------|
| 5.9 | Transportation and Placement of Type C Erosion Protection Riprap on the Apron Channel | 2,150 | Cubic Yards | \$9.95 | \$1.19 | \$11.14 | \$23,959.60 |
| 5.10 | Transportation and Placement of Type C Erosion Protection Riprap to Stabilize Off-Site Erosion Features | 500 | Cubic Yards | \$ <u>2</u> 3.63 | \$2.84 | \$26.47 | \$13,232.80 |
| 6 | Launch Rock Filter Trench Excavation | 3,700 | Cubic Yards | \$13.10 | \$1.57 | \$14.67 | \$54,286.40 |
| 7 | Apron Channel Construction | 300 | Linear Feet | \$58.10 | \$6.97 | \$65.07 | \$19,521.60 |
| 8 | Stabilization of Off-Site Erosion Features | 1 | Lump Sum | \$30,363.25 | \$3,643.59 | \$34,006.84 | \$34,006.84 |
| 9 | Well Abandonment | 11 M | | Maria Cardo d | and Carlos | | |
| 9.1 | Ground Water Well Abandonment | 986 | Linear Feet | \$29.98 | \$3.60 | \$33.58 | \$33,107.51 |
| 9.2 | Line Marker Well Abandonment | 2 | Each | \$1,187.14 | \$142.46 | \$1,329.60 | \$2,659.19 |
| 10 | Fencing | 3,500 | Linear Feet | \$8.89 | \$1.07 | \$9.96 | \$34,848.80 |
| 11 | Site Reclamation | 10.5 | Acres | \$11,635.71 | \$1,396.29 | \$13,032.00 | \$136,835.95 |
| <u>12</u> | New Quarry Operations | | | * | Constant and the second | | |
| 12.1 | Process and Stockpile Type A Bedding Material | 17,910 | Cubic Yards | \$20.88 | \$2.51 | \$23.39 | \$418,836.10 |
| 12.2 | Process and Stockpile Type B Bedding Material | 17,875 | Cubic Yards | \$21.43 | \$2.57 | \$24.00 | \$429,028.60 |
| 12.3 | Process and Stockpile Type C Rock Material | 4,350 | Cubic Yards | \$18.10 | \$2.17 | \$20.27 | \$88,183.20 |
| | Sub-Total 15% Contingency Total: | | | | | \$3,045,488.94 \$456,823.34 \$3,502,312.28 | |

- A. <u>QUANTITIES:</u> It is to be understood that the estimated quantities (where applicable) of each item set forth on this Bid Sheet are approximate only and are subject to revision based on actual measured quantities.
- B. <u>BIDDER'S SOLE RESPONSIBILITY:</u> The undersigned has checked the foregoing figures inserted by him and understands that they are the Bidder's sole responsibility and that URS will not be responsible for any errors or omissions on the part of undersigned in preparing this Bid.
- C. <u>T&M RATE SCHEDULE</u>: The Bidder shall provide a standard time and materials rate schedule as an attachment to this Bid Sheet that includes labor and equipment rates for use if additional work is requested. The rate schedule shall include fully burdended labor rates, equipment rates (fully fueled and maintained, not including operator), standby equipment rates, and markup for materials.
- D. <u>COMPENSATION</u>: In every case the Unit Price/Unit Cost shall be applied to the applicable Unit cited in the Bid Schedule and all costs and reimbersements are understood to to be made in U. S. dollars.