



**TETRA TECH**

**STATE MINE INSPECTOR**  
SEP 05 2008

**ORIGINAL**

**Mined Land Reclamation Plan  
Rosemont Copper Project**



Prepared by:  
Tetra Tech, Inc.  
3031 West Ina Road  
Tucson, Arizona 85741  
Tel: (520) 297-7723 • Fax: (520) 297-7724

**September 2008**

complex world

**CLEAR SOLUTIONS™**

# Mined Land Reclamation Plan

## Rosemont Copper Project

*Prepared for:*



*4500 Cherry Creek South Drive, Suite #1040  
Denver, Colorado 80246  
(303) 300-0138  
Fax (303) 300-0135*

*Prepared by:*



*3031 West Ina Road  
Tucson, Arizona 85741  
(520) 297-7723  
Fax (520) 297-7724*

Tetra Tech Project No. 114-320776

September 2008

This 'Mined Land Reclamation Plan (per ARS R27-901)' for the Rosemont Copper Project in Pima County, Arizona was prepared by Tetra Tech, Inc. under the direct supervision of David R. Krizek, Arizona Professional Engineer (Registration No. 31696).



Expires 9/30/09

---

David R. Krizek, P.E. No. 31696

## TABLE OF CONTENTS

<b>1.0</b>	<b>INTRODUCTION.....</b>	<b>1</b>
1.1	Name and Address of Owner and Operator.....	2
1.2	Regulatory Contact.....	2
1.3	Regulatory Contact.....	2
<b>2.0</b>	<b>REGULATORY RESPONSIBILITY STATEMENT .....</b>	<b>3</b>
<b>3.0</b>	<b>CURRENT OWNERSHIP AND LAND USE .....</b>	<b>4</b>
3.1	Proposed Post-Mining Use of the Land.....	4
3.2	Description of the Mining Unit and the Proposed Surface Disturbance .....	4
3.3	Existing and Proposed Final Topography .....	5
3.4	Narrative Description of Proposed Roads .....	5
3.5	Acreage Affected by Each Type of Surface Disturbance.....	6
<b>4.0</b>	<b>DESCRIPTION OF FISH AND WILDLIFE HABITATS THAT WILL BE DISTURBED ....</b>	<b>7</b>
<b>5.0</b>	<b>MEASURES THAT WILL BE TAKEN TO RESTRICT PUBLIC ACCESS TO THE PROJECT .....</b>	<b>8</b>
<b>6.0</b>	<b>MEASURES THAT WILL BE TAKEN TO ADDRESS EROSION CONTROL AND STABILITY .....</b>	<b>9</b>
6.1	Operational Stormwater Controls.....	9
6.2	Pre- and Post-Mining Temporary Sediment and Erosion Controls .....	10
<b>7.0</b>	<b>MEASURES THAT WILL BE TAKEN TO ADDRESS REVEGETATION, CONSERVATION, AND CARE AND MONITORING OF REVEGETATED AREAS.....</b>	<b>11</b>
<b>8.0</b>	<b>MEASURES TAKEN TO PRESERVE AND CONSERVE SOIL.....</b>	<b>12</b>
<b>9.0</b>	<b>MEASURES THAT WILL BE TAKEN TO ENCOURAGE FISH AND WILDLIFE POST-MINING LAND USE AND THEIR COMPATIBILITY WITH FISH AND WILDLIFE HABITAT ON ADJACENT LANDS.....</b>	<b>13</b>
<b>10.0</b>	<b>PROPOSED SCHEDULE FOR RECLAMATION MEASURES.....</b>	<b>14</b>
<b>11.0</b>	<b>ESTIMATED COSTS TO PERFORM EACH OF THE PROPOSED RECLAMATION MEASURES.....</b>	<b>15</b>
<b>12.0</b>	<b>REFERENCES.....</b>	<b>17</b>

## LIST OF TABLES

Table 1:	MLRP Requirements .....	1
Table 2:	Disturbance Acreages .....	6
Table 2:	Yearly Reclamation Areas .....	14
Table 3:	Reclamation Estimates for Entire Facility.....	15
Table 4:	Reclamation Estimates for State and Private Lands .....	16

## LIST OF FIGURES

- Figure 1: Location Map
- Figure 2: Land Position Map
- Figure 3: Parcel Map
- Figure 4: Parcel Map
- Figure 5: Overall Facility Arrangement

## LIST OF APPENDICES

- APPENDIX A: Reclamation Cost Estimates

## LIST OF ATTACHMENTS

- ATTACHMENT A: Tetra Tech, Inc. 2007. *Rosemont Copper Project, Reclamation and Closure Plan*

## 1.0 INTRODUCTION

As required under Arizona Revised Statute Title 27, Chapter 5, Rosemont Copper Company, (Rosemont) hereby submits this Arizona Mined Land Reclamation Plan (MLRP) for the proposed Rosemont Mine Site located in Pima County, Arizona, southeast of Tucson (Figure 1). This MLRP is submitted pursuant to Arizona Revised Statutes § R27-901 et seq. Table 1 presents the requirements of the MLRP and the locations within this document where these requirements are addressed.

**Table 1: MLRP Requirements**

Section in §27-971	Requirements	Section in Rosemont Copper Mined Land Reclamation Plan
B.1.	Names, addresses of owner or operator and regulatory contact	1.1, 1.2, 1.3
B.2.	Statement that owner assumes responsibility for reclamation of surface disturbances	2.0
B.3.	Current ownership and use of land in the mining unit	3.0, Fig 2, Fig 3, Fig 4, Appendix A
B.4.	Proposed post-mining use of the land	3.0
B.5.	Description of mining unit and surface disturbances	3.0, Attachment A
B.6.	Existing topography	Fig 1, Fig 2, Attachment A
B.6.	Proposed final topography, including final slopes of leach piles, stockpiles, and tailing piles	Fig 5, Attachment A
B.7.	Narrative description of roads for mining unit	3.4
B.8.	Acreage affected by each type of surface disturbance	3.1 (Table 2)
B.8.	Map of mining unit area showing each surface disturbance	Fig 2, Fig 5, Attachment A
B.9.	Proposed reclamation measures necessary to achieve the post-mining land use	7.0, 8.0
B.9.a.	Measures to restrict public access to pits, adits, shafts and other surface features that may be a hazard to public safety	5.0, Fig 5
B.9.b.	Measures to address erosion control and stability	6.0
B.9.c.	Measure to address revegetation, conservation and care and monitoring of revegetated areas	6.0
B.9.d.	Indicate the type of grazing, wildlife habitat, forestry, or recreation to be encouraged and measures to encourage that, if such use is planned	3.1
B.10.	Proposed tentative schedule for beginning surface disturbances and beginning and completing the reclamation measures	10.0
B.11	Estimated costs to perform each of the proposed reclamation measures for purposes of determining financial assurance requirements.	11.0, Appendix A

**1.1 Name and Address of Owner and Operator**

Rosemont Copper Company (wholly-owned subsidiary of Augusta Resource Corporation)  
4500 Cherry Creek South Drive, Suite #1040  
Denver, CO 80246  
(303) 300-0138  
Fax (303) 300-0135

**1.2 Regulatory Contact**

Mr. Rod Pace  
Vice President of Operations and General Manager  
Rosemont Copper Company  
4500 Cherry Creek South Drive, Suite #1040  
Denver, CO 80246  
(303) 300-0138  
Fax (303) 300-0135

**1.3 Regulatory Contact**

Mr. Rod Pace  
Vice President of Operations and General Manager  
Rosemont Copper Company  
4500 Cherry Creek South Drive, Suite #1040  
Denver, CO 80246  
(303) 300-0138  
Fax (303) 300-0135