

# Transportation Reduction Plan

As Required By: Mitigation Measure RC-AQ-01

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**Prepared by:**

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## Monitoring and Reporting Schedule

Task Schedule	Purpose/Description/ Timing	Pre-Mining Period/ Construction Phase			Operations Phase			Closure Phase		
		D	M	A	D	M	A	D	M	A
Commuter monitoring	Record of personnel transported to the Project site and by which means	X			X			X		
Tabulation	Monthly tabulation of personnel transported to the Project site and by which means		X			X			X	
Reporting	To Forest Service			X			X			X

D = Daily; M = Monthly; A = Annually

## Revision Log

<i>Revision Number</i>	<i>Revision Lead</i>	<i>Purpose of Revision</i>	<i>Revision Date</i>
1	Rosemont	Based on Forest Service review of June 2017 MPO submittal.	March 2018
2	Rosemont	Based on Forest Service review of March 2018 MPO submittal.	June 2018
3	Rosemont	Added Data Management Language per FS	October 2018

# Table of Contents

<b>1.0</b>	<b>PLAN OBJECTIVE AND DESCRIPTION .....</b>	<b>1</b>
1.1	PLAN OBJECTIVE .....	1
1.2	PLAN DESCRIPTION .....	1
<b>2.0</b>	<b>PLAN DETAILS .....</b>	<b>2</b>
2.1	SHUTTLE PARK & RIDE AND PERSONNEL TRANSPORTATION SERVICES .....	2
2.2	PURCHASE ORDER TERMS AND CONDITIONS .....	2
2.3	PROVISIONS FOR EARLY PROJECT ACTIVITIES .....	2
2.4	PROVISIONS FOR OPERATIONS AND RECLAMATION/CLOSURE ACTIVITIES .....	2
<b>3.0</b>	<b>MONITORING AND REPORTING .....</b>	<b>3</b>
3.1	MONITORING.....	3
3.2	REPORTING.....	3
<b>4.0</b>	<b>CLOSURE AND BOND RELEASE.....</b>	<b>4</b>
4.1	INTERIM CLOSURE.....	4
4.2	FINAL CLOSURE .....	4
4.3	BOND RELEASE .....	4
<b>5.0</b>	<b>DATA MANAGEMENT .....</b>	<b>5</b>
<b>6.0</b>	<b>REFERENCES .....</b>	<b>6</b>

# 1.0 PLAN OBJECTIVE AND DESCRIPTION

This *Transportation Reduction Plan* (Plan) was developed as a mitigation and monitoring measure (Mitigation Measure) requirement for the U.S. Forest Service's (USFS, Forest Service) Coronado National Forest (Coronado) Final Environmental Impact Statement (FEIS; USFS, 2013) for the Rosemont Copper Project (Project). The Mitigation Measure requirement is specified as "RC-AQ-01: Transporting employees in natural gas powered buses to reduce NOx emissions" on page B-91 in Appendix B of the FEIS. Corrections to any of the mitigation measures listed in Appendix B are provided in an Errata to the FEIS (USFS, 2017a). The Record of Decision (ROD; USFS, 2017b) for the Rosemont Project also lists the required mitigation measures.

Monitoring for Mitigation Measure RC-AQ-01 will begin during the Pre-Mining Period when significant site activities commence, continue through the Operations Phase, and then (as needed) into the Final Reclamation and Closure Phase (Closure Phase).

## 1.1 PLAN OBJECTIVE

The objective of Mitigation Measure RC-AQ-01 is to:

- Reduce NOx emissions resulting from employee commuter traffic.

Because the majority of employees will be transported to and from the Project site in buses, this Plan will also reduce Project related traffic on State Route 83 (SR 83).

## 1.2 PLAN DESCRIPTION

The remainder of this Plan includes the following sections:

- Section 2.0: Plan Details;
- Section 3.0: Monitoring and Reporting;
- Section 4.0: Closure and Bond Release;
- Section 5.0: Data Management; and
- Section 6.0: References.

## **2.0 PLAN DETAILS**

The details associated with this Plan are listed below.

### **2.1 SHUTTLE PARK & RIDE AND PERSONNEL TRANSPORTATION SERVICES**

Shuttle Park & Ride Location(s) (SPRLs) will be developed at locations outside of the SR 83 corridor. These locations will provide parking for employee vehicles. Personnel transportation will be provided from these SPRL locations to transport employees to the Project site. Buses employed to transport employees will be powered by natural gas.

Locations for the SPRLs to be utilized during the Construction Phase will be determined in the Pre-Mining Period during construction planning and will be selected based on workforce demographics. The SPRL and associated transportation will become operational once large-scale construction activities begin at the site. Both company employees and contractors will be required to utilize these services to transport the majority of their employees. It is anticipated that more SPRLs will be needed during the Construction Phase than during the Operations Phase or the Final Reclamation and Closure Phase (Closure Phase). Locations may also change as employee demographics change.

### **2.2 PURCHASE ORDER TERMS AND CONDITIONS**

The standard terms and conditions (T&C's) developed for Rosemont Copper Company (Rosemont) purchase orders and contracts will specify contractor requirements for employee transportation to and from the Project site.

### **2.3 PROVISIONS FOR EARLY PROJECT ACTIVITIES**

Contractors and employees working at site during early Project activities, i.e., planning activities, survey or mitigation activities, or early construction or construction preparation activities, will be relatively limited in number. During this period, contractors will be required to provide their own carpooling or shuttle services for the majority of their employees until the SPRL and transportation service become operational.

### **2.4 PROVISIONS FOR OPERATIONS AND RECLAMATION/CLOSURE ACTIVITIES**

One or more SPRL locations with associated transportation service providers will continue to operate during the Operations Phase and the Closure Phase. The majority of Rosemont employees will be required to utilize the busing service. The transportation service will discontinue at some point in the Closure Phase when warranted by reduced employee numbers.

## **3.0 MONITORING AND REPORTING**

Monitoring and reporting components for Mitigation Measure RC-AQ-01 are listed below.

### **3.1 MONITORING**

Monitoring for Mitigation Measure RC-AQ-01 will consist of recording information regarding the number of employees and bus trips to the Project site. The following information will be included in the record:

- Number of bus trips;
- Number of employees per bus trip; and
- Daily totals of number of personnel bused to the Project site versus the total number of site employees commuting to the site via other means.

Monitoring will begin when the SPRLs are identified and become operational.

### **3.2 REPORTING**

Reporting on Mitigation Measure RC-AQ-01 will occur annually to the Forest Service will include the following information:

- Monthly tabulation on the percentage of employees riding buses versus the number of employees commuting to the site via other means.

## **4.0 CLOSURE AND BOND RELEASE**

This section addresses closure activities associated with this Plan as well as the approach for funding of those activities and bond release of those funds. If bonding is set for one year or less (i.e., simply completing testwork or finalizing reporting) no bond release is proposed. For longer periods, the bonding terms and application for bond release, as well as the mechanism for that release, are included.

### **4.1 INTERIM CLOSURE**

There are no interim closure activities associated with this measure.

### **4.2 FINAL CLOSURE**

There are no final closure requirements associated with this measure.

### **4.3 BOND RELEASE**

There is no bonding associated with this measure.

## 5.0 DATA MANAGEMENT

Rosemont currently maintains data in various formats including logbooks, electronic logbooks, spreadsheets, hardcopy and database formats. Rosemont will collaborate with the Forest Service to ensure that the reporting format used will satisfy reporting requirements and that Forest Service concurs with the format prior to the first reporting deadline. It is Rosemont's intent that, ultimately, a robust database will be used to house all data collected for the various monitoring programs. Numeric data ultimately will be stored in a database and spatial data will be maintained in an ESRI database.

Depending upon the type of data to be reported, Rosemont will develop custom reports displaying required information in table or figure format. Electronic submittals will be provided in pdf format to provide a permanent record of the submittal and "raw" data will be maintained on-site for review by the Forest Service. If the Forest Service requests numeric data, it may include information such as cumulative results documenting the monitoring history and include baseline data for the resource.

Electronic submittals will be made on the reporting period specified. Reports will be submitted in hardcopy form with a duplicate electronic pdf file. Delivery of the electronic files will depend upon the size of the file and will either be made via email, via a CD/DVD or thumb drive, or via a website set up and maintained for delivery of files to the Forest Service. Details regarding access will need to be worked out so transmittals can take place seamlessly.



## 6.0 REFERENCES

USFS, 2013. *Final Environmental Impact Statement for Rosemont Copper Project, Appendix B Mitigation and Monitoring Plan*. December 2013.

2017a. *Errata – Rosemont Copper Project Final Environmental Impact Statement*. April 26, 2017.

2017b. *Record of Decision – Rosemont Copper Project and Amendment of the Coronado Land and Resource Management Plan*. June 2017.