ADDENDUM TO THE ROSEMONT MINE SAGUARO AND AGAVE SURVEY: PROPOSED SANTA RITA ROAD WATERLINE FOR THE ROSEMONT PROJECT REPORT: APPROXIMATELY 38 ACRES AROUND A UTILITY LINE PINCH POINT NEAR THE HELVETIA TOWNSITE, PIMA COUNTY, ARIZONA

PREPARED FOR: Rosemont Copper Company
PREPARED BY: WestLand Resources, Inc.
DATE: October 31, 2011
PROJECT NO. 1049.32 315 315

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Memorandum

To: Bev Everson
Cc: Chris Garrett
From: Kathy Arnold
Doc #: 119/11 - 15.3.2
Subject: Transmittal of Analysis
Date: November 2, 2011

Rosemont Copper is transmitting the latest reports on biological resources.


Rosemont is providing CNF with three (3) hardcopies and one (1) disk copies of the above Technical Memoranda and reports and SWCA with two (2) hardcopies and one (1) disk copy.
1. INTRODUCTION

This report is an addendum to the report “Saguaro and Agave Survey: Proposed Rosemont Project Santa Rita Road Alignment,” dated February 3, 2010, that WestLand Resources, Inc. (WestLand) produced for Rosemont Copper Company (Rosemont). Approximately 38 acres of additional lands (Addendum Area) were subsequently added adjacent to the alignment, near a “pinch point” (a narrow connection of Rosemont Holdings between other privately owned lands) around the old Helvetia Townsite, in portions of Sections 22 and 23, Township 18 South, Range 15 East, Gila and Salt River Base Meridian (Figure 1). Figure 2 depicts the location of the pinch point covered by this survey, as well as a pinch point location covered by the original survey. At the request of Rosemont, WestLand surveyed the Addendum Area for saguaros (Carnegiea gigantea) and agave (Agave spp.).

2. METHODS

From previous work in the area, no saguaros were expected to be found, and survey methods were tailored to agave survey, although any saguaros would likely have been found. The Addendum Area was surveyed by WestLand personnel on September 2, 2011. Transects were walked at variable transect widths, depending on ground cover, to provide visibility of agaves. UTM coordinates (UTM Zone 12 NAD83 US Feet) were recorded at the location of single agaves that were found, and a central UTM coordinate was recorded for multiple agaves found within a short distance of each other (5 meters or less, unless otherwise specified), and the number of agaves within that area was recorded.

Agaves were classified by estimating the diameter across the outer leaf tips of the plant. Three size classes were used: less than 4 inches in diameter (Class 1), 4 inches to 10 inches in diameter (Class 2), and greater than 10 inches in diameter (Class 3).

3. RESULTS

A total of 53 Palmer’s agaves (Agave palmeri) in 37 locations were recorded and no saguaros were found or recorded during the survey (Figure 2). Table 1 provides the UTM coordinates and size class for the agaves found within the Addendum Area. The agaves within the Addendum Area are almost all from the largest size class.
Table 1. Locations of Agaves Found within Rosemont’s Utility Corridor Pinch Point Addendum Area.

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<th>Size Class</th>
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Pinch Point

T18S, R15E, Portion of Sections 22 & 23,
Pima County, Arizona,
Photo Source: National Agriculture Imagery Program, 2010

Legend
- Red: Addendum Boundary
- Green: Original Survey Area
- Light Blue: Out Parcel

No. of Agave
- 1
- 2
- 3
- 7

ROSEMONT PROJECT
Santa Rita Road Utility Line
Pinch Point Addendum
Agave & Saguaro Inventory
AGAVE LOCATIONS
Figure 2