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# TECHNICAL MEMORANDUM

Utah Coal Regulatory Program

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May 12, 2011

TO: Internal File

THRU: Steve Christensen, Lead *SKC*

FROM: Joe Helfrich, Biologist *JH*

RE: Phase III Bond Release - Old Coarse Refuse Road Reclamation, Sunnyside Cogeneration Associates, Sunnyside Refuse/Slurry, Permit # C/007/0035, Task ID # 3718

**SUMMARY:**

An application for Phase III Bond Release was received by the Division on December 21<sup>st</sup>, 2010. This memo will include a review of the vegetation data compiled to meet the requirements of Phase III bond release.

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TECHNICAL MEMO

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**TECHNICAL ANALYSIS:**

**REPORTING OF TECHNICAL DATA**

Regulatory Reference: 30 CFR 777.13; R645-301-130.

**Analysis:**

The technical data has been accompanied by the names of the individuals and companies qualified in their respective fields.

**Findings:**

The information is adequate to meet the requirements of this section of the regulations.

**RECLAMATION PLAN**

**REVEGETATION**

Regulatory Reference: 30 CFR Sec. 785.18, 817.111, 817.113, 817.114, 817.116; R645-301-244, -301-353, -301-354, -301-355, -301-356, -302-280, -302-281, -302-282, -302-283, -302-284.

**Analysis:**

**Revegetation: Standards For Success**

The total living cover of the reclaimed refuse road was estimated at 32.9 % as shown in table 1 (A). The most dominant species being four wing salt bush. The woody species density of the reclaimed road was estimated at 3314 stems per acre compared to that of the reference area being 1,357 plants per acre. Total living cover was also higher than that of the reference areas as noted in table 7, figure 2 for the years 2006 and 2007.

**Findings:**

The information is adequate to meet the requirements of this section of the regulations.

## **STABILIZATION OF SURFACE AREAS**

Regulatory Reference: 30 CFR Sec. 817.95; R645-301-244.

### **Analysis:**

The surface areas associated with the reclamation of the coarse refuse road are stable as noted by the vegetation success, slope stability and no erosion.

### **Findings:**

The information is adequate to meet the requirements of this section of the regulations.

### **RECOMMENDATIONS:**

The application is recommended for approval.