

Subject: Red Rock Section 2.8 FINAL

From: "John Gardner" <john@rsgengineers.com>

Date: Fri, 30 May 2008 14:17:34 -0400

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Donna:

Per your voicemail, **attached** is the **final** version which is unchanged from the latest DRAFT version sent last week (5/23).

Let me know what else you need to get the permit issued.

Thanks.

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2.8 RECYCLING AREA OPERATIONS

The facility's recycling and material recovery operation is intended to segregate co-mingled recyclable and/or reusable materials from the site's waste stream and temporarily store these materials within the permitted landfill footprint. The material recovery operation will take place within a portion of the site's active area and will therefore relocate from time to time along with the active area. Material recovery operations will only take place within the permitted waste limits (as shown on **Figure 1**). Temporary material storage (prior to the end use) may take place in adjacent areas where waste disposal has not yet begun, but still within the permitted limits of waste disposal.

As shown on **Figure 2**, there will be a 25-foot minimum buffer between the temporary fence around the recycling (sorting) area and the limit of disposal in the active area. Sorting will occur only on previously landfilled surfaces (i.e. within the constructed, active cells) that are contained within the facility's groundwater monitoring network.

The recyclable/reusable materials will generally be removed by hand, with the assistance of small equipment, as needed, placed into containers or stockpiles located in close proximity to the operation, processed, and either re-used on-site or sold. Recovered materials will not be stored speculatively. Remaining C&D wastes in the diverted loads will then be disposed in accordance with the site's C&D permit. The anticipated wastes to be recovered and their anticipated end uses include the following:

| RECYCLED WASTE | GENERAL OPERATION | ANTICIPATED END USES |
|--|--|---|
| Corrugated Cardboard | Segregated by hand; and placed into closed (covered) roll-off box (not baled) | Sold off-site |
| Clean Wood Waste (no painted, stained, or otherwise contaminated wood) | Segregated with loader and/or excavator; metal separated (magnets); and placed into roll-off box or stockpiled; wood will be chipped and/or ground on-site | Used for on-site mulching, erosion control, or sold off-site Removed metal will be sold off-site |
| Scrap Metals | Segregated by hand and/or equipment and placed into roll-off box | Removed metal sold off-site |
| Gypsum Wallboard | Segregated by hand and/or equipment and placed into closed (covered) roll-off box | Sold off-site |
| Clean Concrete | Segregated with loader and/or excavator; rebar separated (magnets); stockpiled on-site; crushed | Used for on-site road aggregate or sold off-site Removed metal sold off-site |

2.8.1 Safety

The recycling area will generally be located contiguous to the active, operating C&D disposal face. The recycling area will be partitioned from the active C&D area with physical barriers (i.e. fencing, earthen materials, etc.) for safety and protection of site personnel who are segregating materials within the recycling area. All equipment operating in the recycling area will be equipped with back-up alarms. All appropriate Personal Protective Equipment will be worn by workers in the recycling area, including two-way radios between the workers and equipment operators.

Demolition debris will not be sorted, only clean construction waste. Asbestos Containing Waste (ACW) or suspected ACW will not be hauled to, or dumped into, the sorting area. ACW will be buried in accordance with applicable North Carolina and NESHAP requirements.

2.8.2 Operations

Only those C&D waste loads delivered to the site that contain predominantly recoverable materials will be diverted to the recycling area for segregation handling. It is anticipated that up to 20% of the C&D waste stream (by weight) delivered to the site will be segregated, recovered, recycled and/or reused. Materials that are not recoverable, but which were dumped within the sorting area, will be pushed and/or loaded and hauled to the adjacent active area for proper disposal on a daily basis.

Containers will be stored within either the current or future landfill footprint such that they are within the facility's groundwater monitoring network. Future groundwater monitoring wells may be installed prior to their scheduled phasing to accomplish this. Once the temporary storage containers are full, but not less frequently than annually, the materials will be processed as needed.

The recycling/sorting area will not operate during wet or muddy conditions. The landfill (intermediate) cover will be maintained at 12 inches in thickness in the recycling/sorting area. Additional material will be added as needed to maintain this buffer.

Wood waste will be stockpiled within future landfill footprint areas and will be periodically processed (chipped, shredded, etc.) immediately prior to being sold and hauled off site or just prior to use on site, as appropriate. No mulch will be stockpiled on site for more than 7 days. A 20-foot wide clear area will be maintained around wood waste stockpiles to allow access in the event of a fire.

2.8.3 Equipment

Anticipated equipment to be used in and around the recycling area will include:

- one small rubber-tired loader, skid-steer, or bobcat; and
- one small excavator.

Other equipment may be added as needed. Containers will generally consist of steel roll-off boxes, both covered and open, depending on the contents, and will be stored in proximity to the recycling operational area. Cardboard and wallboard containers will be covered. All containers will generally be removed from the site as they are filled.

2.8.4 Personnel

Based on permitted site tonnage, up to four (4) site personnel, including equipment operators, are anticipated for operations within the recycling area of the site.

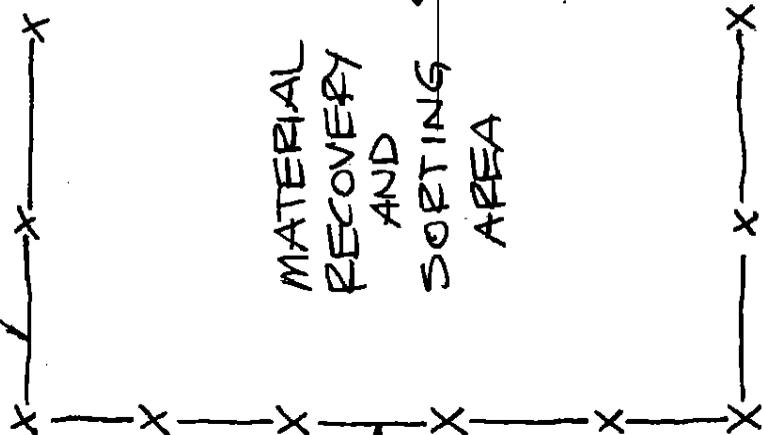
2.8.5 Recovered Material Management

Only waste loads which are predominantly recyclable materials will be diverted to the sorting area. Recovered materials that are removed from the waste stream for re-use will be weighed on the site scales prior to being removed from the site at the time of their sale. If the materials are to be used on site (i.e., processed wood waste/mulch, crushed concrete, etc.), they will be weighed on the site scales prior to being used on site.

2.8.6 Recordkeeping

As a result of the recovered material management practices, there will be accurate records and reporting of the weight of waste and the weight of recycled/reused materials. The net weight of waste equals the total weight of material entering the site minus the weight of recovered materials removed from the waste stream.

MOVABLE FENCING (SAFETY FENCE ON STABLE POSTS) OR EQUIVALENT PHYSICAL BARRIER



MATERIAL RECOVERY AND SORTING AREA

ACCESS FROM SCALEHOUSE

25' MIN. BUFFER

ACTIVE DISPOSAL CELL OPERATIONS

FIGURE 2