June 28, 2005

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JUN 30 2005

DIV. OF OIL, GAS & MINING

M/049/047

The Utah Division of Oil, Gas and Mining
ATTN: Mr. Lynn Kunzler
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84116

Subject: Lime Peak Quarry – Large Mine Permit Application, File No. M/049/047

Dear Mr. Kunzler:

Please find enclosed the results of the vegetation survey that was completed for the subject large mine permit application. The results of the vegetation survey will be incorporated into the Large Mine Permit application once UDOGM completes their review. Also enclosed is a revised Figure 3, Surface Facility Map which displays the additional rock storage area outside the large mine permit boundaries. This area is within the Homansville Borrow Pit, where topsoil for the Eureka Mills Superfund Project will be harvested. Our intension is to use this additional storage area for stockpiling rock after the topsoil has been harvested.

To reclaim the Homansville Borrow Pit, we will use 12 inches of topsoil stripped from the surface of the borrow pit and stockpiled on-site. Following completion of borrow activities, the topsoil will be redistributed, graded to ensure proper drainage and ripped with a dozer to promote revegitation. Our intention is to use the same seed mix, seeding methods and revegetation procedures for the Homansville Borrow Pit as those that have been established for the Lime Peak Quarry Large Mine Permit. In addition, we have committed to Utah County that the Superfund Project will follow all of the substantive requirements of Utah County Zoning Ordinance Chapter 3, Paragraph 28 – Open Pit Extraction of Earth Products during operation and reclamation of the borrow pit.

If you have any questions regarding this notification, please contact me at 402/399-4833 or Jude Hobza of USACE at 402/293-2530 on behalf of Paula Schmittdiel of the EPA.

Sincerely,

HDR ENGINEERING, INC.

Joseph R. Shields, P.E.
Project Manager

CF:
Jude Hobza, PE, USACE - Rapid Response, P.O. Box 13287, Bldg 525 Castle Hall, Offutt AFB, NE 68113
Paula Schmittdiel, U.S. Environmental Protection Agency, 999 18th St., Suite 500, Denver, Co. 80202-2466, Mail Code: 8EPR-SR
Tom Mathison, Shaw Environmental and Infrastructure, 2790 Mosside Blvd., Monroeville, PA 15146-2792

HDR Engineering, Inc.
8404 Indian Hills Drive
Omaha, NE 68114-4098
Phone: (402) 399-1000
Fax: (402) 399-1238
www.hdrinc.com

Transect 1 – Upper most in elevation

Dominants

Poa fendleriana	15%
Artemesia tridentata	11%
Poa secunda	10%

Sub-dominant

Chrysothamnus vicidiflorus	5%

Total Vegetqative Cover **55%**

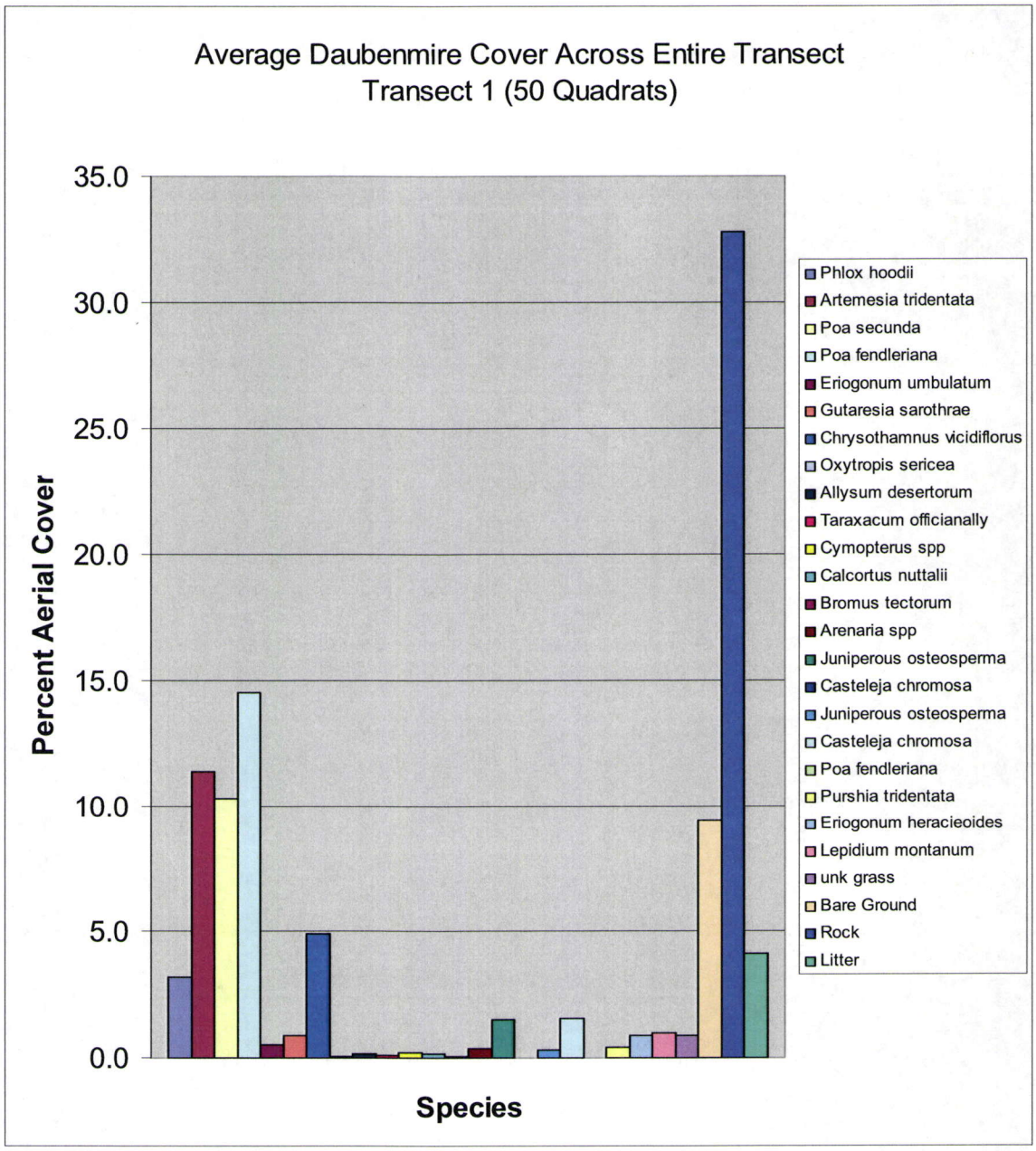
Bare Ground	9%
Rock	33%
Litter	4%

Total Non-Vegetative Cover **45%**

Species Lists - Transect 1

Scientific Name	Average
Phlox hoodii	3.2
Artemesia tridentata	11.4
Poa secunda	10.3
Poa fendleriana	14.6
Eriogonum umbulatum	0.5
Gutaresia sarothrae	0.9
Chrysothamnus vicidiflorus	4.9
Oxytropis sericea	0.0
Allysum desertorum	0.2
Taraxacum officianally	0.1
Cymopterus spp	0.2
Calcortus nuttalii	0.1
Bromus tectorum	0.0
Arenaria spp	0.4
Juniperous osteosperma	1.5

Scientific Name	Average
Casteleja chromosa	0.0
Poa fendleriana	0.3
Purshia tridentata	1.6
Eriogonum heracieoides	0.0
Lepidium montanum	0.4
unk grass	0.9
Descurania pinatta	0.0
ephedra	0.6
Pinus edulis	2.1
unk aster	0.3
Total	**54.5**
Litter	4.1
Rock	32.8
Bare Ground	9.4
Total	**46.3**


Average Daubenmire Cover Across Entire Transect
Transect 1 (50 Quadrats)
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
Percent Aerial Cover
Species
Phlox hoodii
Artemesia tridentata
Poa secunda
Poa fendleriana
Eriogonum umbulatum
Gutaresia sarothrae
Chrysothamnus vicidiflorus
Oxytropis sericea
Allysum desertorum
Taraxacum officianally
Cymopterus spp
Calcortus nuttalii
Bromus tectorum
Arenaria spp
Juniperous osteosperma
Casteleja chromosa
Juniperous osteosperma
Casteleja chromosa
Poa fendleriana
Purshia tridentata
Eriogonum heracieoides
Lepidium montanum
unk grass
Bare Ground
Rock
Litter

Transect 2 – Mid-elevation

Dominants

Artemesia tridentata	12%
Bromus tectorum	11%

Sub-dominant

Agropyron spicatum	6%
Purshia tridentate	4%

Total Vegetqative Cover **47%**

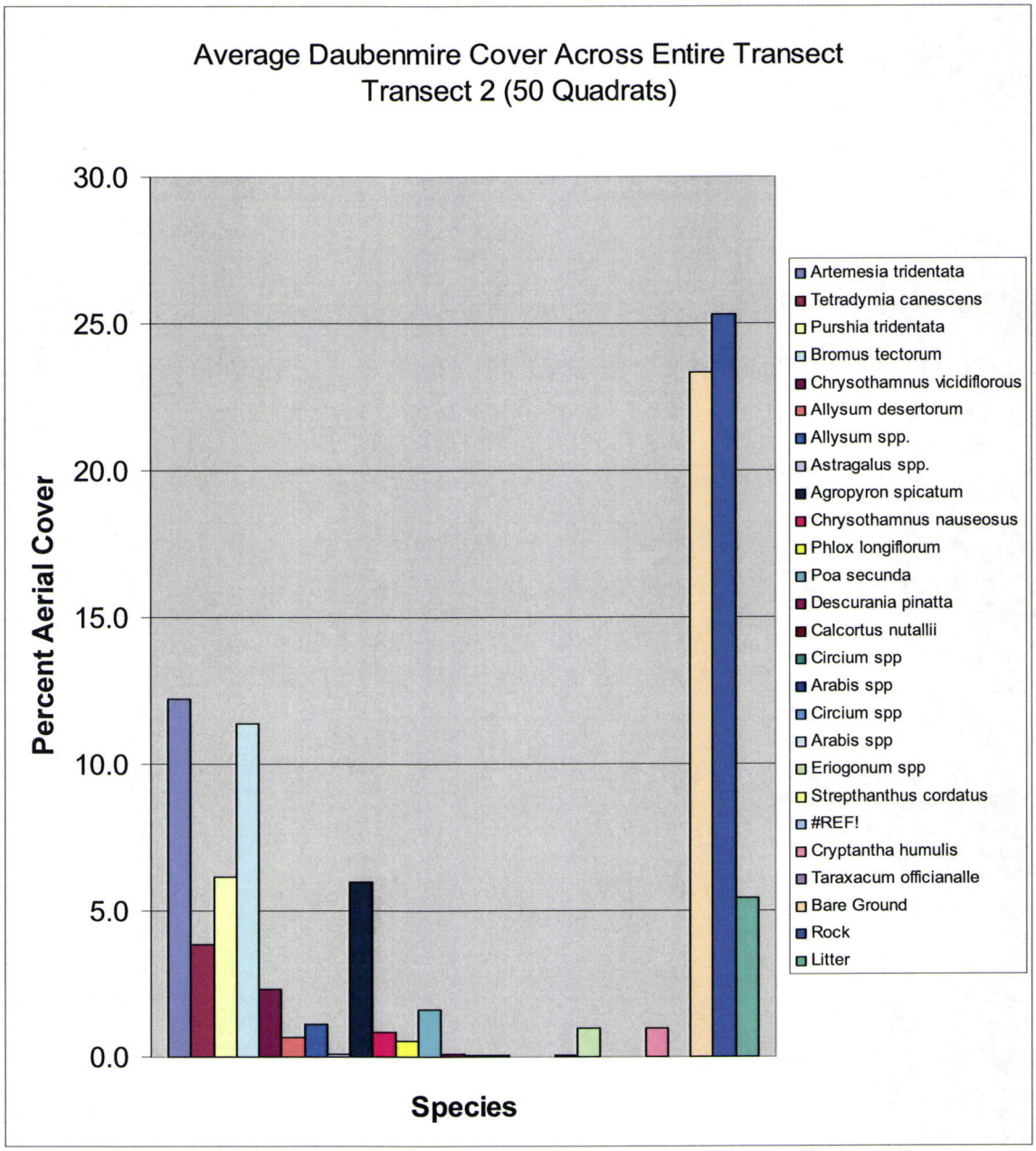
Bare Ground	23%
Rock	25%
Litter	6%

Total Non-Vegetative Cover **54%**

Species List - Transect 2

Scientific Name	Average
Artemesia tridentata	12.3
Tetradymia canescens	3.8
Purshia tridentata	6.2
Bromus tectorum	11.4
Chrysothamnus vicidiflorous	2.3
Allysum desertorum	0.7
Allysum spp.	1.1
Astragalus spp.	0.1
Agropyron spicatum	6.0
Chrysothamnus nauseosus	0.9
Phlox longiflorum	0.5
Poa secunda	1.6
Descurania pinatta	0.1

Scientific Name	Average
Calcortus nutallii	0.0
Circium spp	0.1
Arabis spp	0.0
Eriogonum spp	0.0
Strepthanthus cordatus	0.0
Cryptantha humulis	0.0
Taraxacum officianalle	0.0
Total	**47.1**
Litter	5.5
Rock	25.3
Bare Ground	23.4
Total	**54.1**


Average Daubenmire Cover Across Entire Transect
Transect 2 (50 Quadrats)
30.0
25.0
20.0
15.0
10.0
5.0
0.0
Percent Aerial Cover
Species
Artemesia tridentata
Tetradymia canescens
Purshia tridentata
Bromus tectorum
Chrysothamnus vicidiflorous
Allysum desertorum
Allysum spp.
Astragalus spp.
Agropyron spicatum
Chrysothamnus nauseosus
Phlox longiflorum
Poa secunda
Descurania pinatta
Calcortus nutallii
Circium spp
Arabis spp
Circium spp
Arabis spp
Eriogonum spp
Strepthanthus cordatus
#REF!
Cryptantha humulis
Taraxacum officianalle
Bare Ground
Rock
Litter

Transect 3 – Low-Elevation

Dominants

Bromus tectorum	22%
Artemesia tridentata	13%
Chrysothamnus vicidiflorus	15%

Sub-dominant

Chrysothamnus naseosus	9%
Elymus smithii	8%

Total Vegetqative Cover **79%**

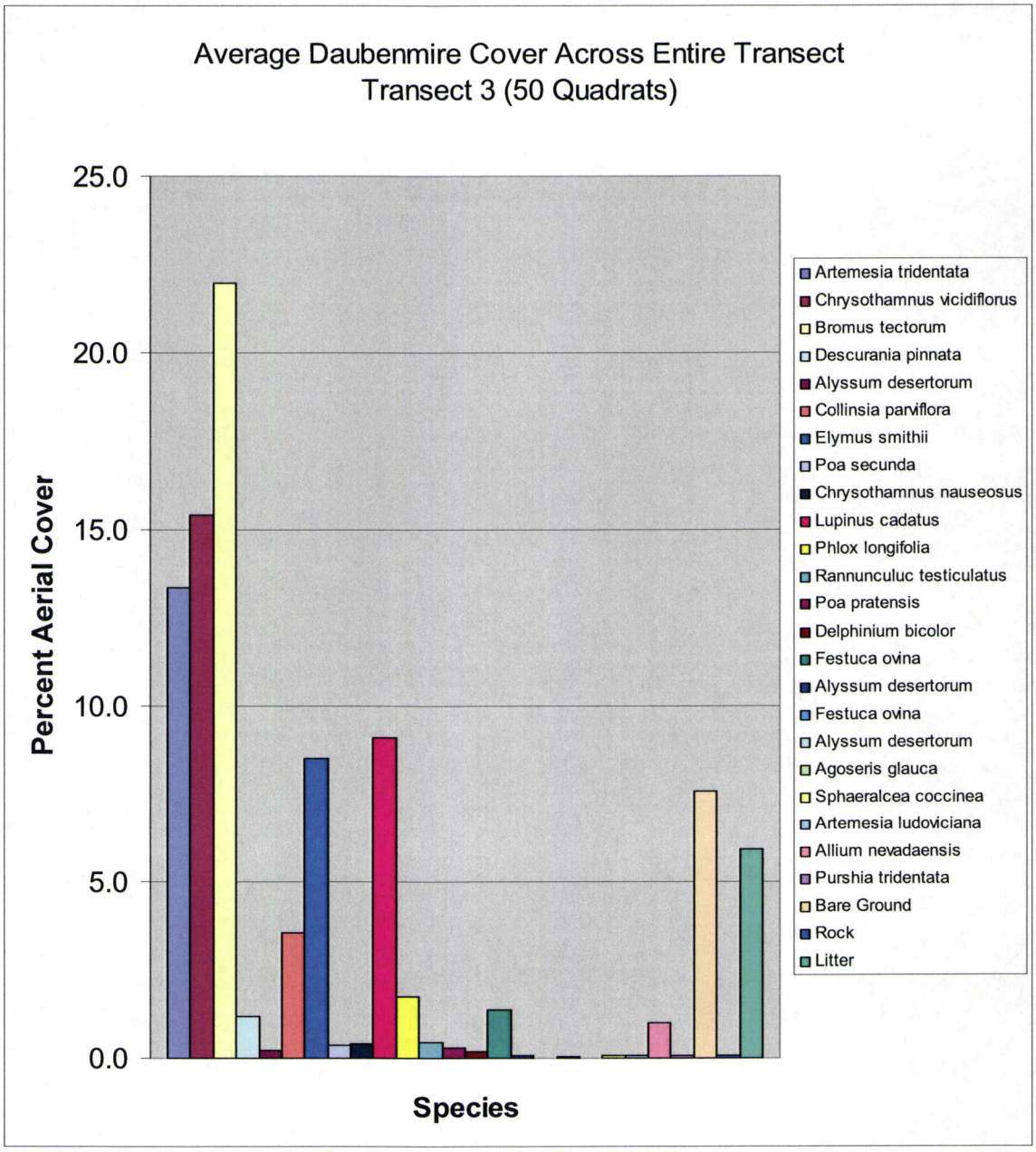
Bare Ground	8%
Rock	<1%
Litter	6%

Total Non-Vegetative Cover **14%**

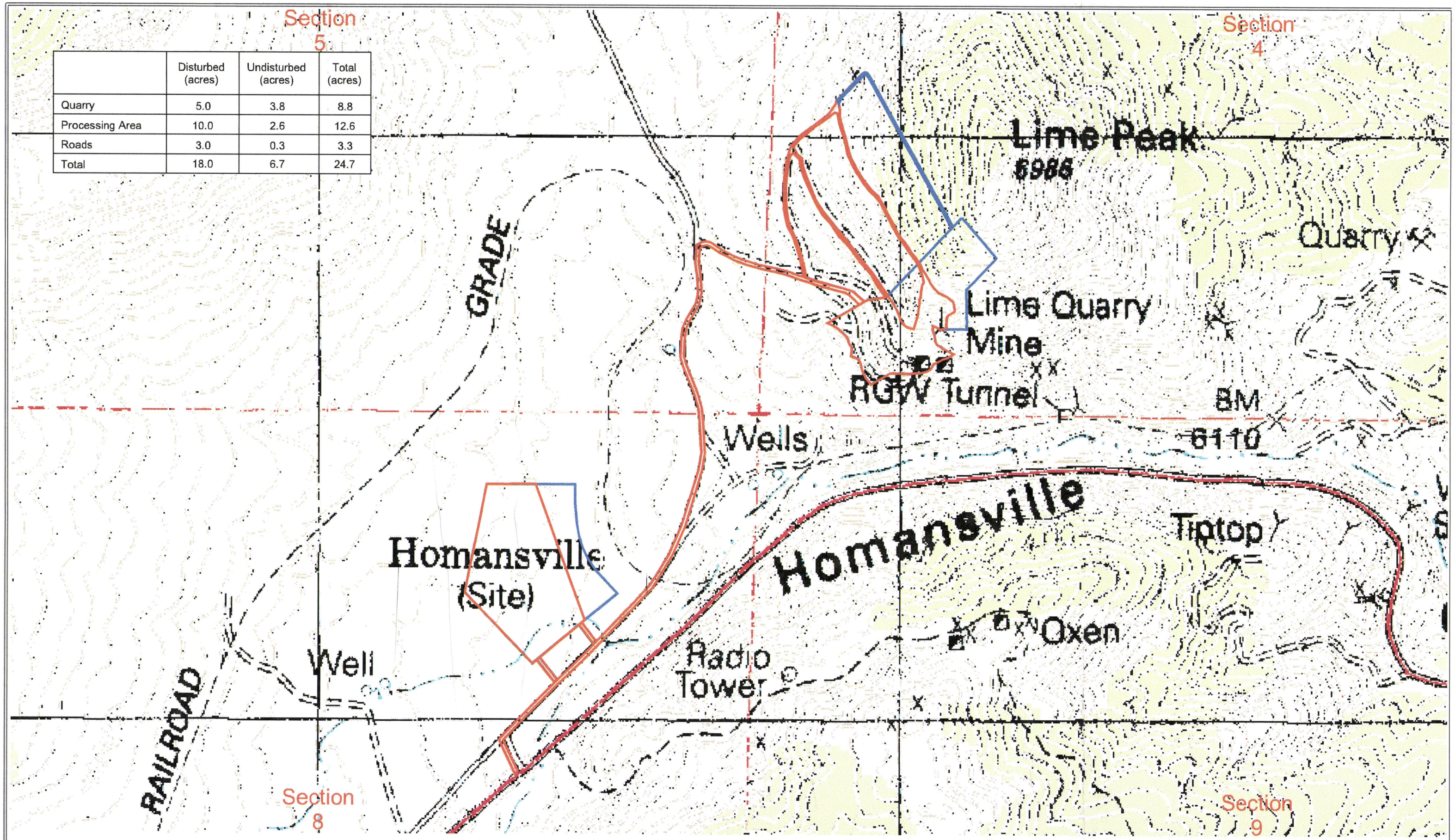
Species List - Transect 3

Scientific Name	Average
Artemesia tridentata	13.4
Chrysothamnus vicidiflorus	15.4
Bromus tectorum	22.0
Descurania pinnata	1.2
Alyssum desertorum	0.2
Collinsia parviflora	3.5
Elymus smithii	8.5
Poa secunda	0.4
Chrysothamnus nauseosus	0.4
Lupinus cadatus	9.1
Phlox longifolia	1.8
Rannunculuc testiculatus	0.4
Poa pratensis	0.3

Scientific Name	Average
Delphinium bicolor	0.2
Festuca ovina	1.4
Alyssum desertorum	0.1
Agoseris glauca	0.0
Sphaeralcea coccinea	0.0
Artemesia ludoviciana	0.0
Allium nevadaensis	0.1
Purshia tridentata	0.1
Total	**78.4**
Litter	5.9
Rock	0.1
Bare Ground	7.6
Total	**13.6**


Average Daubenmire Cover Across Entire Transect
Transect 3 (50 Quadrats)
25.0
20.0
15.0
10.0
5.0
0.0
Percent Aerial Cover
Species
Artemesia tridentata
Chrysothamnus vicidiflorus
Bromus tectorum
Descurania pinnata
Alyssum desertorum
Collinsia parviflora
Elymus smithii
Poa secunda
Chrysothamnus nauseosus
Lupinus cadatus
Phlox longifolia
Rannunculuc testiculatus
Poa pratensis
Delphinium bicolor
Festuca ovina
Alyssum desertorum
Festuca ovina
Alyssum desertorum
Agoseris glauca
Sphaeralcea coccinea
Artemesia ludoviciana
Allium nevadaensis
Purshia tridentata
Bare Ground
Rock
Litter

	Disturbed (acres)	Undisturbed (acres)	Total (acres)
Quarry	5.0	3.8	8.8
Processing Area	10.0	2.6	12.6
Roads	3.0	0.3	3.3
Total	18.0	6.7	24.7



Source: USGS Topographic Map, Eureka Quadrangle, 1992

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ONE COMPANY | Many Solutions

Legend
- Undisturbed Area to be Permitted
- Impacted Area within Area to be Permitted

N

500 0 500 Feet
Scale

Eureka Mills Superfund Site, Eureka, UT
Lime Peak Quarry Mining Permit

Figure 2 - Impacted Areas Within Proposed Areas to be Permitted