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MEMORANDUM

TO: Mel Coonrod

FROM: Patrick Collins

DATE: March 27, 1997

SUBJECT: Wellington Vegetation Studies (1996)

TOT. NO. OF PAGES: 3

COPIES TO: D. Schwehr (w/o enclosures)

Mel:

Enclosed are the results for the 1996 vegetation surveys at Wellington. The information included is the qualitative data from the Surface Facility Plot. It should be added to Wellington's 1996 annual report due next month.

Any soil sampling has already been submitted to DOGM through the TA process with deficiencies.



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CLIENT: NEICO
QUALITATIVE SAMPLING DATA SHEET AND
QUANTITATIVE/QUALITATIVE NOTES
Year: 1996

ACT 1007/012 #1/6

SITE NAME: Surface Facility Reclamation Test Plot

AREA: Wellington Preparation Plant

SAMPLE DATE: September 1996

WORKERS: P. D. Collins

SLOPE: 1-2 deg.

EXPOSURE: NE

ANIMAL USE/DISTURBANCE: (fenced)

EROSION: Negligible

COVER: approx. 35%

DOMINANT PLANT SPECIES OBSERVED:

Single Species Plots:

The following plots produced "good" results for density and relative cover on the single species plots:

<u>Plant Name</u>	<u>Plot No.</u>
<i>Penstemon palmeri</i>	18
<i>Melilotus officinalis</i>	16
<i>Medicago sativa</i>	15
<i>Sphaeralcea grossulariaefolia</i>	20
<i>Elymus smithii</i>	1
<i>Stipa hymenoides</i>	7

The remainder of the single species plots had "poor" results for cover and density (at least for the species that were planted).

The following desirable plant species were common in all of the single species plots (evidently from natural invasions):

Gutierrezia sarothrae
Chrysothamnus nauseosus
Machaeranthera canescens
Agropyron cristatum

The following "weedy" species were also common on all plots.

Halogeton glomeratus
Salsola pestifer

Species Mixture Plots:

The following species were dominant in the test plot comprised of mixtures of shrubs, forbs and grasses:

Atriplex canescens
Ceratoides lanata
Kochia prostrata

The following "weedy" species were also common on all plots.

Bromus tectorum
Sisymbrium altissimum

NOTES:

- 1) Quantitative sampling suggested for 1997 in late spring
- 2) Although the summer was relatively dry, the plots seemed to have more desirable species and less weedy species than previous years.
- 3) There were more plants growing in the "gouged" areas.
- 4) Photographs for documentation were taken and are available upon request.