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KAISER STEEL

KAISER STEEL CORPORATION
SUNNYSIDE COAL MINES
SUNNYSIDE, UTAH 84539
TELEPHONE 801-888-4421

February 4, 1981

Jim Smith, Coordinator
Mined Land Denver
Division of Oil, Gas & Mining
1588 West North Temple
Salt Lake City, Utah 84116

Dear Mr. Smith:

We have located the sites of several (5) proposed reference areas for the Sunnyside Mines, Utah (see enclosed data). A permanent transect representative of each disturbed site is to be located within each area. To complete sample adequacy, a stratified random sample of each vegetation type will be completed to develop baseline vegetation data.

A meeting with your department is scheduled for the 18th of February to see Kaiser's South Lease property. Would it be possible at the same time to inspect these proposed reference sites?

Thank you for your assistance.

Sincerely,

KAISER STEEL CORPORATION

Marcia Wolfe

M. J. Wolfe
Reclamation Engineer

MJW:dm

Enclosure

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DIVISION OF
OIL, GAS & MINING

Table ___. Comparison of Actively Disturbed Site to Proposed Reference Site-Mountain Brush

PARAMETER	DISTURBED SITE	PROPOSED REFERENCE SITE ①
VEGETATION TYPE	Mountain Brush	Mountain Brush
LOCATION	Whitmore Canyon	Whitmore Canyon
SECTION	SW^{4}SW^{4}, Section 17, T14S R14E	SW^{4}NW^{4}, Section 20, T14S R14E
ELEVATION FT/M	7280/2219	7290/2222
GEOLOGIC FORMATION	North Horn Flagstaff Form.	North Horn Flagstaff Formation
SOILS MAPPING UNIT	Zillion Complex	Zillion Complex
SLOPE (Percent)	40	42.5
ASPECT (Degrees)	102	96
SPECIES COMPOSITION	Assumed to be similar *	Amelanchier/Elymus dominants
PLANT COVER	" " " "	**
PRODUCTIVITY	" " " "	**

* This disturbed site is adjacent to the mountain brush community. The probable potential of the disturbed site is determined to be mountain brush. Species composition, plant cover and productivity undoubtedly would fall within the normal variation expected in this type.

** To be determined in the vegetation survey

Table ___ Comparison of Actively Disturbed Site to Proposed Reference Site - Pinyon/Juniper

PARAMETER	DISTURBED SITE	PROPOSED REFERENCE SITE ②
VEGETATION TYPE	Pinyon/Juniper	Pinyon/Juniper
LOCATION	Fan Canyon	Fan Canyon
SECTION	NW^{4}SW^4 Section 30 T14S R14E	NW^{4}SW^4 Section 30 T14S R14E
ELEVATION FT/M	7120/2172	7280/2210
GEOLOGIC FORMATION	Mesa Verde + Mancos Shale	Mesa Verde + Mancos Shale
SOILS MAPPING UNIT	Ildelfonso Rock Outcrop Complex Minfre Rock Outcrop Complex	Rock-Rubble-Sunup Complex
SLOPE (Percent)	68	62
ASPECT (Degrees)	92	112
SPECIES COMPOSITION	Assumed to be similar*	PINUS / EPHEDRA
PLANT COVER	" " " "	**
PRODUCTIVITY	" " " "	**

* This previously disturbed site is in the pinyon/juniper habitat type. Species composition, cover and productivity are assumed to fall within the normal variation expected in this vegetation type.

** To be determined in the vegetation survey

Table ___. Comparison of Actively Disturbed Site to Proposed Reference Site - Pinyon/Juniper

PARAMETER	DISTURBED SITE	PROPOSED REFERENCE SITE ②
VEGETATION TYPE	Pinyon/Juniper	Pinyon/Juniper
LOCATION	Slaughter Canyon	Fan Canyon
SECTION	SW⁴SW⁴ Section 30 T14S R14E	NW⁴SW⁴ Section 30, T14S R14E
ELEVATION FT/M	7020/2139	7280/2210
GEOLOGIC FORMATION	Mesa Verde and Mancos Shale	Mesa Verde and Mancos Shale
SOILS MAPPING UNIT	Ildelfonso - Rock outcrop complex Minfre Rock outcrop complex	Rock - Rubble - Sunup Complex
SLOPE (Percent)	Streambed - 14 Canyon walls - 59	62
ASPECT (Degrees)	275° and 95°	112
SPECIES COMPOSITION	ASSUMED TO BE SIMILAR *	PINUS / EPHEDRA
PLANT COVER	" " " "	**
PRODUCTIVITY	" " " "	**

* This previously disturbed site is in the pinyon/juniper habitat type. Species composition, cover and productivity are assumed to fall within the normal variation expected in this vegetation type.

** To be determined in the vegetation survey

Table ___: Comparison of Actively Disturbed Site to Proposed Reference Site - Pinyon/Juniper/Grass

PARAMETER	DISTURBED SITE	PROPOSED REFERENCE SITES (3)
VEGETATION TYPE	Pinyon/Juniper/Grass	Pinyon/Juniper/Grass
LOCATION	Mouth of Whitmore Canyon	Mouth of Whitmore Canyon
SECTION	NE^{4}SE^4 Section 6 T15S R14E	NE^{4}NW^4 Section 7 T15S R14E
ELEVATION FT/M	6525/1989	6480/1975
GEOLOGIC FORMATION	Mesa Verde and Mancos Shale	Mesa Verde + Mancos Shale
SOILS MAPPING UNIT	Ildelfonso Very Stony Loam	Ildelfonso Very Stony Loam
SLOPE (Percent)	0-5	0-5
ASPECT (Degrees)	260	247
SPECIES COMPOSITION	Assumed to be similar *	Pinus/Elymus/Artemisia
PLANT COVER	" " " "	**
PRODUCTIVITY	" " " "	**

* This actively disturbed site appears to be in the Pinyon/Juniper/Grass habitat type as deduced from old aerial photographs

** To be determined in the vegetation survey

PARAMETER	DISTURBED SITE	PROPOSED REFERENCE SITES (4)
VEGETATION TYPE	RIPARIAN COTTONWOOD	RIPARIAN COTTONWOOD
LOCATION	Whitmore Canyon	Whitmore Canyon
SECTION	W½ E½ and SE⁴SW⁴ SEC 32 T14S R14E	SW⁴NE⁴ SEC 32 T14S R14E
ELEVATION FT/M	6600 to 6770 / 2012 to 2064	6680 / 2012
GEOLOGIC FORMATION	MESA VERDE / MANCOS SHALE	MESA VERDE / MANCOS Shale
SOILS MAPPING UNIT	HAVERSON LOAM	RIVRA LOAM with inclusions of HAVERSON soils
SLOPE IN PERCENT	0-3	2
ASPECT IN DEGREES	200	170
SPECIES COMPOSITION	* Assumed to be similar	Populus / Agrostis dominates
PLANT COVER	" " " "	#
PRODUCTIVITY	" " " "	#

Table _____. Comparison of actively disturbed Riparian Cottonwood site to proposed reference site.

* the actively disturbed sites along the creek are probable riparian cottonwood habitat types. Plant cover, productivity, and composition are assumed to fall within the natural variation of this habitat type.

\# To be determined in the vegetation survey.

Table ___. Comparison of Actively Disturbed Site to Proposed Reference Site - Sagebrush/Grass

PARAMETER	DISTURBED SITE	PROPOSED REFERENCE SITE (5)
VEGETATION TYPE	Sagebrush / Grass	Sagebrush / Grass
LOCATION	Whitmore Canyon	Whitmore Canyon
SECTION	S½ Section 32 T14S R14E	NW¼NW¼ Section 29 T14S R14E
ELEVATION FT/M	7080/2158	7000/2106
GEOLOGIC FORMATION	Price River	Price River
SOILS MAPPING UNIT	Rivra Loam	Rivra Loam
SLOPE (Percent)	0-5	0-3
ASPECT (Degrees)	227	187
SPECIES COMPOSITION	Assumed to be Similar *	Artemisia / Elymus
PLANT COVER	" " " "	**
PRODUCTIVITY	" " " "	**

* This previously disturbed site is in the sagebrush/grass habitat type. Species composition, cover and productivity are assumed to fall within the normal variation expected in this vegetation type.

** To be determined in the vegetation survey