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UTAH STATE UNIVERSITY
Soils Laboratory
Logan, Utah
SOIL ANALYSIS REPORT

file in
Kaiser Steel
Sunnyside
ACT/007/007

COLLECTED BY Kaiser Steel Corp. DATE 10/15/79 LOCATION Sunnyside, Utah

LABORATORY NUMBER	COLLECTOR'S NUMBER	DEPTH IN INCHES	HORIZON	PARTICLE SIZE DISTRIBUTION (in mm.) (percent) VERY COARSE SAND 2-1	COARSE SAND 1-0.5	MEDIUM SAND 0.5-0.25	FINE SAND 0.25-0.10	VERY FINE SAND 0.10-0.05	SILT 0.05-0.002	CLAY < 0.002	0.02-0.002	> 2 mm.	TEXTURAL CLASS
4368	1												sandy loam
4369	2												sand

LABORATORY NUMBER	pH SATURATED PASTE	pH 1:5	ORGANIC MATTER: ORGANIC MATTER %	ORGANIC CARBON %	NITROGEN %	C/N	TOTAL SOLUBLE SALTS %	ELECTRICAL CONDUCTIVITY EC x 10³ MILLIMHOS PER CM @25°C	CaCO3 equivalent per cent	GYPSUM me./100g SOIL	GYPSUM %	MOISTURE TENSIONS 1/3 ATMOS. %	MOISTURE TENSIONS 15 ATMOS. %
4368	8.0				.12			.6	++				
4369	6.8				.45			3.5	0				

LABORATORY NUMBER	CATION EXCHANGE CAPACITY (meq/100g)	Ca (ppm)	Mg (ppm)	P (ppm)	K (ppm)	SAR Sodium Ads. Ratio	SATURATION EXTRACT SOLUBLE (milliequivalents per liter): Na	K	Ca & Mg	HCO_3	Cl	SO_4	Exchangeable Sodium Percentage
4368	10.2			5.7	214	.1	.6		.52				<.1
4369	6.6			8.5	58	<.1	2.8		4.6				<.1

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file in Kaiser Steel Sunnyside ACT/007/007

UTAH STATE UNIVERSITY
Soils Laboratory
Logan, Utah
SOIL ANALYSIS REPORT

COLLECTED BY Kaiser Steel Corp. DATE 9/28/79 LOCATION Sunnyside, Utah 84539

Samples collected 8-23-79 & mailed (JSH) Result received 10-4-79

LABORATORY NUMBER	COLLECTOR'S NUMBER	DEPTH IN INCHES	HORIZON	PARTICLE SIZE DISTRIBUTION (in mm.) (percent) VERY COARSE SAND 2-1	COARSE SAND 1-0.5	MEDIUM SAND 0.5-0.25	FINE SAND 0.25-0.10	VERY FINE SAND 0.10-0.05	SILT 0.05-0.002	CLAY < 0.002	0.02-0.002	> 2 mm.	TEXTURAL CLASS
79-3997	1. slopes		at upper bathouse. / Disturbed Slope										sandy loam
3998	2. stock-pile		topsoil near slurry ponds. / Stockpile Topsoil										loam

LABORATORY NUMBER	pH SATURATED PASTE	pH 1:5	ORGANIC MATTER: ORGANIC MATTER %	ORGANIC CARBON %	NITROGEN %	C/N	TOTAL SOLUBLE SALTS %	ELECTRICAL CONDUCTIVITY EC x 10³ MILLIMHOS PER CM @25°C	CaCO3 equivalent	GYPSUM me./100g SOIL	GYPSUM %	MOISTURE TENSIONS 1/3 ATMOS. %	MOISTURE TENSIONS 15 ATMOS. %	NaHCO3 P ppm
3997	8.2		-		.05			1.0	++					2.9
3998	8.2		1.21		.06			4.1	++					6.9

LABORATORY NUMBER	CATION EXCHANGE CAPACITY	extractable CATIONS Ca	Mg	Na	K	(SAR) Sodium Ads. Ratio	SATURATION EXTRACT SOLUBLE Na	K	Ca & Mg	HCO_3	Cl	SO_4	PER CENT MOISTURE AT SATURATION	NaHCO3 K ppm
	← milliequivalents per 100g soil →						← milliequivalents per liter →							
3997	10.8			.1		.8	1.7		8.5				29	68
3998	8.7			.4		1.3	7.1		56.4				26	81

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Kaiser Steel
Sunnydale Mines
ACT/007/007

KAISER STEEL

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

December 3, 1979

Mr. Ronald W. Daniels
Coordinator of Mined Land Development
Utah Department of Natural Resources
Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Dear Mr. Daniels.

In order to clarify Item (2) of my letter of November 19, 1979, concerning the operations of Sunnydale Mines Inc., the following statement is submitted to replace said Item (2).

> Kaiser Steel assumes the responsibility for the activities of Sunnydale Mines for environmental degradation and violations of existing rules that might occur within the Permit Area as shown on the map submitted on July 5, 1979.

It is felt that this clarification is needed to ensure that we would not be held responsible for the activities of Sunnydale Mines in areas where Kaiser Steel would have no control such as transport and point of use.

Sincerely,

RECEIVED
DEC 5 1979
DIVISION OF
GAS & MINING

Lynn Huntsman

Lynn Huntsman
Mgr., Engr. & Qual. Cont.