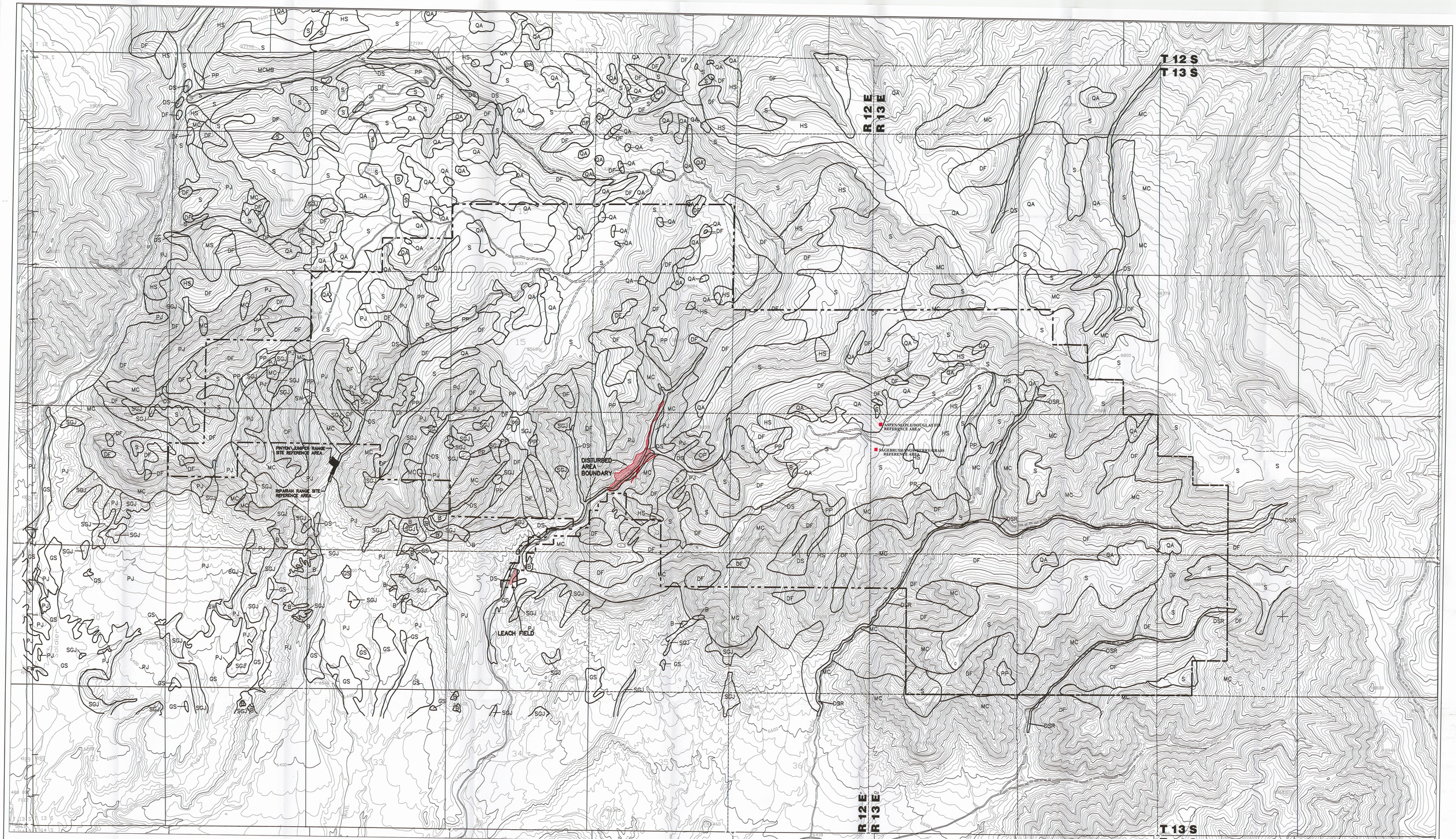

RECEIVED
JUN 2 7 2005
DIV. OF OIL, GAS & MINING

REGISTERED PROFESSIONAL ENGINEER
No. 151810
DAVID G. SPILLMAN
STATE OF UTAH

LEGEND

B	BARREN GROUND	PJ	PINION JUNIPER
DF	DOUGLAS FIR	PP	PONDEROSA PINE
DS	DECIDUOUS STREAMBANK	QA	QUAKING ASPEN
FW	FARMLAND WEEDS	RG	RUSH GRASS
GS	GREASEWOOD–SAGEBRUSH	S	SAGEBRUSH
HS	HIGH SHRUBS	SCW	SALT CEDAR–WILLOW
MC	MIXED CONIFER	SGJ	SHRUB–GRASS–JUNIPER
MCMB	MIXED CONIFER–MOUNTAIN BRUSH	DSR	DECIDUOUS STREAM BANK VEGETATION AND LIMITED RIPARIAN VEGETATION

PERMIT AREA BOUNDARY

NOTES:

1. SOME MAPPED VEGETATION UNITS INCLUDE SMALL SCATTERED AREAS OF VEGETATION OTHER THAN THAT FOR WHICH THE VEGETATION UNIT IS LABELED. "THE SOILS IN ANY ONE MAP UNIT DIFFER FROM PLACE TO PLACE IN SLOPE, DEPTH, DRAINAGE, AND OTHER CHARACTERISTICS THAT AFFECT MANAGEMENT. THE GENERAL MAP UNITS IN THIS SURVEY HAVE BEEN GROUPED INTO GENERAL KINDS OF LANDSCAPE FOR BROAD INTERPRETIVE PURPOSES." © PAGE 5.

2. THE VEGETATION COMMUNITY UNIT MAPPING ON THIS PLATE IS OF LESSER INTENSITY THAN THAT OF PLATE 3–1A. PERCEIVED DIFFERENCES BETWEEN THIS PLATE AND PLATE 3–1A ARE ATTRIBUTED TO THE LEVEL OF SAMPLING AND SCALE DIFFERENCE BETWEEN THE PLATES.

3. AREAS OF VEGETATION ADJACENT TO THE DISTURBED AREA BOUNDARY WERE GROUND TRUTHED IN 1998.

4. "MOST INCLUDED SOILS HAVE PROPERTIES SIMILAR TO THOSE OF THE DOMINANT SOIL OR SOILS IN THE MAP UNIT, AND THUS THEY DO NOT AFFECT USE AND MANAGEMENT. THESE ARE CALLED NONCONTRASTING, OR SIMILAR, INCLUSIONS. THEY MAY OR MAY NOT BE MENTIONED IN THE MAP UNIT DESCRIPTION. OTHER INCLUDED SOILS AND MISCELLANEOUS AREAS, HOWEVER, HAVE PROPERTIES AND BEHAVIOR DIVERGENT ENOUGH TO AFFECT USE OR TO REQUIRE DIFFERENT MANAGEMENT. THESE ARE CALLED CONTRASTING, OR DISSIMILAR, INCLUSIONS. THEY GENERALLY ARE IN SMALL AREAS AND COULD NOT BE MAPPED SEPARATELY BECAUSE OF THE SCALE USED." © PAGE 13.

5. SEE REFUSE PILE DOCUMENT FOR VEGETATION TYPES AND REFERENCE AREA LOCATION.

6. REFER TO REFUSE PILE AMENDMENT AND METHANE DEGASSIFICATION AMENDMENT FOR SPECIFIC INFORMATION PERTAINING TO THEIR AREAS.

SOURCE: REPORT BY ENVIRONMENTAL RESEARCH & TECHNOLOGY, INC
DR. STEVEN RICHARDSON, 1980
AERIAL PHOTOGRAPHS, SOIL SURVEY OF CARBON AREA, UTAH ©

0' 1000'

REVISION	
DATE	BY
6/12/01	JCB
12/17/03	RR

Canyon Fuel Company, LLC
Solder Canyon & Dugout Canyon Mines

VEGETATION

Dugout Canyon Mine