NOTE:
QUALITATIVE AND QUANTITATIVE DATA PROVIDED BY MT. NEBO SCIENTIFIC, INC.

Columns: Qualitative (Slope, Animal Use, Erosion); Quantitative Cover (Total Living, Litter, Bareground, Rock); Quantitative % Composition (Shrubs, Forbs, Grasses, Density, Productivity).

Site Name: DEER CANYON '86 — Exposure: E

Year	Date	Slope	Animal Use	Erosion	Total Living	Litter	Bareground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
1999	SEPT. 27-30	15-20°	N	N	-	-	-	-	-	-	-	-	-
2000	AUG. 28-SEPT. 3	15-20°	N	N	NOT SAMPLED				NOT SAMPLED				
2001	AUG. 19-AUG. 23	15-20°	N	N	NOT SAMPLED				NOT SAMPLED				
2002	SEPT. 9-14	15-20°	N	N	NOT SAMPLED				NOT SAMPLED				
2004	SEPT. 13-17	15-20°	N	N	NOT SAMPLED				NOT SAMPLED				

Site Name: TEMPORARY SEDIMENT BASIN '91 — Exposure: V

Year	Date	Slope	Animal Use	Erosion	Total Living	Litter	Bareground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
1999	SEPT. 27-30	1-2°	N	N	-	-	-	-	-	-	-	-	-
2000	AUG. 28-SEPT. 3	1-2°	N	N	NOT SAMPLED				NOT SAMPLED				
2001	AUG. 19-AUG. 23	1-2°	N	N	NOT SAMPLED				NOT SAMPLED				
2002	SEPT. 9-14	1-2°	N	N	NOT SAMPLED				NOT SAMPLED				
2004	SEPT. 20-25	1-2°	N	N	NOT SAMPLED				NOT SAMPLED				

Site Name: ROCK SLIDE & BERM '88 — Exposure: W

Year	Date	Slope	Animal Use	Erosion	Total Living	Litter	Bareground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
1999	SEPT. 27-30	53°+	N	N	-	-	-	-	-	-	-	-	-
2000	AUG. 28-SEPT. 3	53°+	N	S	NOT SAMPLED				NOT SAMPLED				
2001	AUG. 19-AUG. 23	53°+	N	S	NOT SAMPLED				NOT SAMPLED				
2002	SEPT. 9-14	53°+	N	S	NOT SAMPLED				NOT SAMPLED				
2004	SEPT. 13-17	53°+	N	S-M	NOT SAMPLED				NOT SAMPLED				

Site Name: C2 CONVEYOR '93 (IU 132-190) — Exposure: E

Year	Date	Slope	Animal Use	Erosion	Total Living	Litter	Bareground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
1999	SEPT. 27-30	8°	N	S-M	-	-	-	-	-	-	-	-	-
2000	AUG. 28-SEPT. 3	8°	N	N-M	NOT SAMPLED				NOT SAMPLED				
2001	AUG. 19-AUG. 23	8°	N	N-M	NOT SAMPLED				NOT SAMPLED				
2002	SEPT. 9-14	8°	N	N-M	NOT SAMPLED				NOT SAMPLED				
2004	SEPT. 20-25	8°	N	N-M	NOT SAMPLED				NOT SAMPLED				

Site Name: PIPELINE '86 — Exposure: V

Year	Date	Slope	Animal Use	Erosion	Total Living	Litter	Bareground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
1999	SEPT. 27-30	5-30°	N	N	-	-	-	-	-	-	-	-	-
2000	AUG. 28-SEPT. 3	5-30°	N	N	NOT SAMPLED				NOT SAMPLED				
2001	AUG. 19-AUG. 23	5-30°	N	N	NOT SAMPLED				NOT SAMPLED				
2002	SEPT. 11-14	5-30°	N	N	NOT SAMPLED				NOT SAMPLED				
2004	SEPT. 13-17	5-30°	N	N	NOT SAMPLED				NOT SAMPLED				

Site Name: ROADSIDE AREAS '90 — Exposure: NE

Year	Date	Slope	Animal Use	Erosion	Total Living	Litter	Bareground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
1999	SEPT. 27-30	5°	N	N	-	-	-	-	-	-	-	-	-
2000	AUG. 28-SEPT. 3	5°	N	N	NOT SAMPLED				NOT SAMPLED				
2001	AUG. 19-AUG. 23	5°	N	N	NOT SAMPLED				NOT SAMPLED				
2002	SEPT. 9-14	5°	N	N	NOT SAMPLED				NOT SAMPLED				
2004	SEPT. 20-25	5°	N	N	NOT SAMPLED				NOT SAMPLED				

Site Name: FAN ROAD SLOPES '89 — Exposure: V

Year	Date	Slope	Animal Use	Erosion	Total Living	Litter	Bareground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
1999	SEPT. 27-30	V	N	N	-	-	-	-	-	-	-	-	-
2000	AUG. 28-SEPT. 3	V	N	N	NOT SAMPLED				NOT SAMPLED				
2001	AUG. 19-AUG. 23	V	N	S	NOT SAMPLED				NOT SAMPLED				
2002	SEPT. 9-14	V	N	S	NOT SAMPLED				NOT SAMPLED				
2004	SEPT. 13-17	V	N	S	NOT SAMPLED				NOT SAMPLED				

Site Name: RIPARIAN REFERENCE AREA — Exposure: V

Year	Date	Slope	Animal Use	Erosion	Total Living	Litter	Bareground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
1999	SEPT. 27-30	2-3°	E	N	-	-	-	-	-	-	-	-	-
2000	AUG. 28-SEPT. 3	2-3°	E	N	NOT SAMPLED				NOT SAMPLED				
2001	AUG. 19-AUG. 23	2-3°	E	N	NOT SAMPLED				NOT SAMPLED				
2002	SEPT. 9-14	2-3°	M	N	NOT SAMPLED				NOT SAMPLED				
2004	SEPT. 20-25	2-3°	M	N	NOT SAMPLED				NOT SAMPLED				
2005	OCT. 10-13	2-3°	M	N	NOT SAMPLED				NOT SAMPLED				

Site Name: PINYON JUNIPER REFERENCE AREA — Exposure: E

Year	Date	Slope	Animal Use	Erosion	Total Living	Litter	Bareground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
1999	SEPT. 27-30	28°	M	N	-	-	-	-	-	-	-	-	-
2000	AUG. 28-SEPT. 3	28°	M	N	NOT SAMPLED				NOT SAMPLED				
2001	AUG. 19-AUG. 23	28°	M	N	NOT SAMPLED				NOT SAMPLED				
2002	SEPT. 9-14	28°	M	N	NOT SAMPLED				NOT SAMPLED				
2004	SEPT. 13-17	28°	M	N	NOT SAMPLED				NOT SAMPLED				
2005	OCT. 10-13	~25°	M	N	NOT SAMPLED				NOT SAMPLED				

Site Name: SED. POND DAM '91 — Exposure: V

Year	Date	Slope	Animal Use	Erosion	Total Living	Litter	Bareground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
1999	SEPT. 27-30	1-25°	N	N	-	-	-	-	-	-	-	-	-
2000	AUG. 28-SEPT. 3	1-25°	N	N	NOT SAMPLED				NOT SAMPLED				
2001	AUG. 19-AUG. 23	1-25°	N	N	NOT SAMPLED				NOT SAMPLED				
2002	SEPT. 9-14	1-25°	N	N	NOT SAMPLED				NOT SAMPLED				
2004	SEPT. 20-25	1-25°	N	N	NOT SAMPLED				NOT SAMPLED				

Site Name: RIPARIAN '91 — Exposure: V

Year	Date	Slope	Animal Use	Erosion	Total Living	Litter	Bareground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
1999	SEPT. 27-30	1-5°	N	N	-	-	-	-	-	-	-	-	-
2000	AUG. 28-SEPT. 3	1-5°	N	N	NOT SAMPLED				NOT SAMPLED				
2001	AUG. 19-AUG. 23	1-5°	N	N	NOT SAMPLED				NOT SAMPLED				
2002	SEPT. 9-14	1-5°	N	N	NOT SAMPLED				NOT SAMPLED				
2004	SEPT. 20-25	1-5°	N	N	NOT SAMPLED				NOT SAMPLED				

Site Name: REFUSE PILE & BERM '88 — Exposure: NE

Year	Date	Slope	Animal Use	Erosion	Total Living	Litter	Bareground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
1999	SEPT. 27-30	27°	N	S-M	-	-	-	-	-	-	-	-	-
2000	AUG. 28-SEPT. 3	27°	N	N-S	NOT SAMPLED				NOT SAMPLED				
2001	AUG. 19-AUG. 23	27°	N	N-S	NOT SAMPLED				NOT SAMPLED				
2002	SEPT. 9-14	27°	N	N-S	NOT SAMPLED				NOT SAMPLED				
2004	SEPT. 13-17	27°	N	N-S	NOT SAMPLED				NOT SAMPLED				

Site Name: MIXED CONIFER REFERENCE AREA — Exposure: WSW

Year	Date	Slope	Animal Use	Erosion	Total Living	Litter	Bareground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
1999	SEPT. 27-30	15-25°	M	N	-	-	-	-	-	-	-	-	-
2000	AUG. 28-SEPT. 3	15-25°	M	N	NOT SAMPLED				NOT SAMPLED				
2001	AUG. 19-AUG. 23	15-25°	M	N	NOT SAMPLED				NOT SAMPLED				
2002	SEPT. 9-14	15-25°	M	N	NOT SAMPLED				NOT SAMPLED				
2004	SEPT. 13-17	15-25°	M	N	NOT SAMPLED				NOT SAMPLED				
2005	OCT. 10-13	15-25°	M	N	NOT SAMPLED				NOT SAMPLED				

Site Name: GATE AREA SLOPE '90 — Exposure: E

Year	Date	Slope	Animal Use	Erosion	Total Living	Litter	Bareground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
1999	SEPT. 27-30	20°	N	S-M	-	-	-	-	-	-	-	-	-
2000	AUG. 28-SEPT. 3	20°	N	S-M	NOT SAMPLED				NOT SAMPLED				
2001	AUG. 19-AUG. 23	20°	N	S-M	NOT SAMPLED				NOT SAMPLED				
2002	SEPT. 9-14	20°	N	S-M	NOT SAMPLED				NOT SAMPLED				
2004	SEPT. 20-25	20°	N	S-M	NOT SAMPLED				NOT SAMPLED				

Site Name: DRAIN FIELD '97 — Exposure: N

Year	Date	Slope	Animal Use	Erosion	Total Living	Litter	Bareground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
1999	SEPT. 27-30	2-3°	S	N	-	-	-	-	-	-	-	-	-
2000	AUG. 28-SEPT. 3	2-3°	S	N	NOT SAMPLED				NOT SAMPLED				
2001	AUG. 19-AUG. 23	2-3°	S	N	NOT SAMPLED				NOT SAMPLED				
2002	SEPT. 9-14	2-3°	S	N	NOT SAMPLED				NOT SAMPLED				
2004	SEPT. 20-25	2-3°	S	N	NOT SAMPLED				NOT SAMPLED				

Site Name: WATER PLANT SLOPE '88 — Exposure: NE

Year	Date	Slope	Animal Use	Erosion	Total Living	Litter	Bareground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
1999	SEPT. 27-30	38°	N	S	-	-	-	-	-	-	-	-	-
2000	AUG. 28-SEPT. 3	38°	N	S	NOT SAMPLED				NOT SAMPLED				
2001	AUG. 19-AUG. 23	38°	N	S	NOT SAMPLED				NOT SAMPLED				
2002	SEPT. 9-14	38°	N	S	NOT SAMPLED				NOT SAMPLED				
2004	SEPT. 13-17	38°	N	S	NOT SAMPLED				NOT SAMPLED				

Date	Revisions	By
3-29-06	ADDED QUALITATIVE DATA FOR 2005	KJL
5-16-05	ADDED QUALITATIVE DATA FOR 2004/MODIFIED D.C. PERMIT BOUNDARY LINE	KJL
3-21-03	ADDED QUALITATIVE AND QUANTITATIVE DATA FOR 2002	KJL
4-4-02	ADDED QUALITATIVE AND QUANTITATIVE DATA FOR 2001	KJL
2-10-93	ADDED EQUIPMENT STORAGE AREA NOTATION	KJL
10-4-90	ADDED POWDER AND PRIMER MAGAZINES	KJL
1-10-90	ADDED ASCA AREAS 1-9 AND ASCA LEGEND	KJL

I, JOHN CHRISTENSEN BEING A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF UTAH, DO HEREBY CERTIFY THAT THE INFORMATION CONTAINED ON THIS DRAWING IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

John Christensen 3/29/06
JOHN CHRISTENSEN NO. 165651 DATE

LICENSED PROFESSIONAL ENGINEER JOHN CHRISTENSEN No. 165651 STATE OF UTAH

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HUNTINGTON, UTAH 84528

DEER CREEK COAL MINE
HUNTINGTON POND TO DEER CREEK MINE
2005 VEGETATION MONITORING

DRAWN BY: K. ABEYTA & KJL
SCALE: 1"=200'
DATE: MAY 29, 1998
DRAWING #: DCVEGMAP
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