APPENDIX A SOILS IN THE OVERTON POWER PROJECT AREA

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	erton Power 9-year Plar	n Soils			r	J	11		,	, R		IVI	IV			ζ	IV.	3
	date: 2/23/11	. 55113																
3												Det	ail of major soil ty	pe(s)				
5	Map Unit	1	Over	ton Power	ROW	ľ	Map Unit Setting	T		Setting		1		es and Qualities		T	Interprat	tive Groups
Map U Symbo	I Man Unit Name	Slope % [estimated]	Area (m²)	Acres	Percent (of ROW)	Mean annual precipitation (inches)	Mean annual air temperature (°F)	Frost free period (days)	Landform	Parent material	Slope (%)	Depth to restrictive feature (inches)	Drainage class	Depth to water table (inches)	Frequency of flooding	Maximum salinity	Land capability classification (irrigated)	Land capability (nonirrigated)
7 Ad	Alluvial land	[0 - 2]	12,925	3.19	0.16	-	-	-	Flood plains	-	-	-	Somewhat poorly drained	About 12 - 35	Frequent	Nonsaline (0.0 to 2.0 mmhos/cm)	-	-
AMC	: Arada fine sand	2 - 8	432,222	106.95	5.33	4 - 6	63 - 68	220 - 270	Fan remnants	Eolian deposits derived from mixed sources	2 - 8	More than 80	Somewhat excessively drained	More than 80	None	Nonsaline (0.0 to 2.0 mmhos/cm)	4s	7s
AOB	Arada fine sand, gravelly substratum	0 - 4	44,504	11.01	0.55	4 - 6	63 - 68	220 - 270	Fan remnants	Eolian deposits derived from mixed sources	0 - 4	More than 80	Somewhat excessively drained	More than 80	None	Nonsaline (0.0 to 2.0 mmhos/cm)	4s	7s
ASC 10	Arada fine sand, hardpan variant	2 - 8	246,876	61.09	3.05	-	-	-	Fan remnants	Eolian deposits	2 - 8	21 - 36	Somewhat excessively drained Excessively	More than 80	None	Nonsaline (0.0 to 2.0 mmhos/cm) Nonsaline	4s	7s
11 AVB	Arizo gravelly fine sand	2 - 4	107,184	26.47	1.32	4 - 10	57 - 66	200 - 260	Inset fans	Alluvium derived from mixed sources	2 - 4	More than 80	drained	More than 80	Occassional	(0.0 to 2.0 mmhos/cm)	-	7w
12 BD	Badland	[15 - 75]	470,101	116.11	5.80	-	-	-	Fan remnants	-	-	-	-	-	-	-	-	-
13 BFD	Bard gravelly fine sand	4 - 15	754,412	186.34	9.31	4 - 6	59 - 66	220 - 260	Fan remnants	Alluvium derived from limestone and dolomite	4 - 15	14 - 20 to petrocalcic	Well drained	More than 80	None	Nonsaline (0.0 to 2.0 mmhos/cm)	4e	7s
14 BHC	Bard gravelly fine sandy loam	2 - 8	207,240	51.19	2.56	5 - 7	63 - 65	220 - 240	Fan remnants	Alluvium derived from limestone and dolomite	2 - 8	14 - 20 to petrocalcic	Well drained	More than 80	None	Nonsaline (0.0 to 2.0 mmhos/cm)	4e	7s
15 BTC	Dittor Spring Arizo association	moderately	664,815	164.21	8.20	3 - 10	57 - 72	180 - 300	Fan remnants	Alluvium derived from mixed sources	2 - 15	More than 80	Well drained	More than 80	None	Strongly saline (30.0 to 40.0 mmhos/cm)	4e	6s
16	Bitter Spring-Arizo association	sloping	004,813	104.21	8.20	3-10	37-72	180 - 300	Drainageways	Alluvium derived from mixed sources	4 - 8	More than 80	Excessively drained	More than 80	Occassional	Nonsaline (0.0 to 2.0 mmhos/cm)	-	7w
17 Bu	Black Butte silt loam	[0 - 2]	3,738	0.92	0.05	5 - 7	66 - 68	180 - 300	Flood-plain steps	Alluvium derived from sedimentary rock	0 - 2	More than 80	Well drained	More than 80	Rare	Strongly saline (30.0 to 130.0 mmhos/cm)	3s	7s
Bw	Bluepoint loamy fine sand	[0 - 2]	80,939	19.99	1.00	4 - 10	55 - 66	220 - 300	Flood plains	Eolian deposits derived from mixed sources	0 - 2	More than 80	Somewhat excessively drained	About 48 - 72 inches	Rare	Nonsaline to slightly saline (0.0 to 8.0 mmhos/cm)	3s	7s
Cd	Calico fine sandy loam, strongly saline	[0 - 2]	879	0.22	0.01	4 - 6	53 - 66	240 - 300	Flood plains	Alluvium derived from mixed sources	0 - 2	More than 80	Somewhat poorly drained	About 36 - 48 inches	Occassional	Moderately saline to strongly saline (16.0 to 32.0 mmhos/cm)	-	7w
Co 20	Calico loamy fine sand, coarse variant, strongly saline	[0 - 2]	25,686	6.34	0.32	4 - 6	66 - 70	220 - 250	Flood plains	Alluvium derived from mixed sources	0 - 2	More than 80	Somewhat poorly drained	About 36 - 48 inches	Occassional	Slightly saline to strongly saline (8.0 to 32.0 mmhos/cm)	3w	7w
21 Ea	Eastland gravelly sandy loam	[0 - 2]	139,267	34.40	1.72	4 - 6	64 - 66	235 - 280	Fan remnants	Alluvium derived from mixed sources	0 - 2	More than 80	Well drained	About 48 - 72 inches	Rare	Nonsaline (0.0 to 2.0 mmhos/cm)	4s	7s
Gf 22	Gila loam, strongly saline	[0 - 2]	106,159	26.22	1.31	4 - 12	64 - 70	240	Fan remnants	Alluvium derived from mixed sources	0 - 2	More than 80	Well drained	More than 80	Occassional	Moderately saline to strongly saline (16.0 to 32.0 mmhos/cm) Nonsaline	2w	7w
23 HUF	Huevi-Badland association	[8 - 30]	53,337	13.17	0.66	3 - 5	70 - 76	300 - 360	Fan remnants	Mixed gravelly alluvium	8 - 30	More than 80	Well drained	More than 80	None	(0.0 to 2.0 mmhos/cm)	-	7s
24			,						Rock pediments	Tertiary sandy and silty lacustrine deposits	-	-	-	-	-	-	-	8s
lt 25	Ireteba loam, overflow	[0 - 2]	60,498	14.94	0.75	4 - 6	66 - 70	220 - 260	Flood plains	Alluvium derived from mixed sources	0 - 2	More than 80	Well drained	More than 80	Frequent	Slightly saline to strongly saline (8.0 to 32.0 mmhos/cm)	2w	7w
26									Fan remnants	Residuum weathered from sandstone	4 - 15	40 - 60 to paralithic bedrock	Well drained	More than 80	None	Nonsaline (0.0 to 2.0 mmhos/cm)	-	7s
27 MBG	Monger-Bard-Typic Torriorthents association	[2 - 75]	146,122	36.09	1.80	4 - 7	59 - 68	220 - 300	Fan remnants	Alluvium derived from limestone and dolomite	2 - 4	14 - 20 to petrocalcic	Well drained	More than 80	None	Nonsaline (0.0 to 2.0 mmhos/cm)	-	7s
28									Rock pediments	Colluvium derived from sedimentary rock over residuum weathered from sedimentary rock	30 - 75	More than 80	Well drained	More than 80	None	Nonsaline to slightly saline (2.0 to 8.0 mmhos/cm)	-	7e
29 MOE	Mormon Mesa fine sandy loam	0 - 8	1,662,873	410.73	20.52	4 - 6	64 - 70	235 - 260	Fan remnants	Tertiary lacustrine deposits	0 - 8	10 - 20 to petrocalcic	Well drained	More than 80	None	Nonsaline (0.0 to 2.0 mmhos/cm)		7s
30 Ox	Oxyaquic Torriorthents-Toquop complex	0 - 8	51,474	12.71	0.64	3 - 5	66 - 72	280 - 320	Flood-plain steps	Alluvium derived from mixed sources	2 - 8	More than 80	Somewhat poorly drained	About 20 - 35 inches	Frequent	Moderately saline to strongly saline (16.0 to 32.0 mmhos/cm)	-	7w
31	Dlavas	[0 4]	17 102	4.24	0.34				Stream terraces	Calcareous alluvium derived from sedimentary rock	0 - 2	More than 80	Excessively drained Very poorly	More than 80	None	Nonsaline (0.0 to 2.0 mmhos/cm) Moderately saline to strongly	4s	7s
9L 32	Playas	[0 - 1]	17,182	4.24	0.21	-	-	-	Playas	-	0 - 1	-	drained	About 0 inches	-	saline (16.0 to 32.0 mmhos/cm)	-	8w

1	l A	D	С	D	-	F	G	Н	1 1	1	Ι κ Ι		M	N	0	D	0	P	c
No.	A	В	, ,	ט	E	F	Ü	н		J		L	IVI			P		К	5
Market M	33 Ri	i Riverwash-Water complex	0 - 2	11,841	2.92	0.15	5 - 7	70 - 73	300 - 350			_	-	·	inches	-		-	-
Part	35																-		-
March Marc	RT 36	F Rock land-St. Thomas association	very steep	95,807	23.66	1.18	4 - 6	68 - 70	230 - 250		Colluvium derived from limestone and dolomite over residuum weathered		4 - 20 inches to lithic				Nonsaline to very slightly saline	-	7e
Part	7t	Tobler fine sandy loam	[0 - 2]	42,667	10.54	0.53	4 - 6	57 - 64	195 - 240	Flood plains		0 - 2	More than 80	Well drained		Occassional	saline (8.0 to 32.0 mmhos/cm)	2w	7w
1	38	Tobler fine sandy loam, strongly saline	[0 - 2]	94,590	23.36	1.17	4 - 6	57 - 64	195 - 240	Flood plains	shale	0 - 2	More than 80	Well drained	inches	Occassional	saline	-	7w
1	39 To	Tobler silt loam, wet	[0 - 2]	6,524	1.61	0.08	4 - 6	57 - 64	195 - 240	Flood plains		0 - 2	More than 80	Well drained		Occassional		2w	7w
March Marc	TH	B Tonopah gravelly sandy loam	0 - 4	235,320	58.12	2.90	4 - 8	61 - 70	180 - 270	Fan remnants	Alluvium derived from mixed sources	0 - 4	More than 80	-		Rare	saline	-	7s
Total Tota	TM	Tonopah very gravelly sandy loam	4 - 15	304,896	75.31	3.76	4 - 8	61 - 70	180 - 270	Fan remnants	Alluvium derived from mixed sources	4 - 15	More than 80	-	inches	Rare	saline	-	7s
1	42 Tn	A Toquop fine sand	0 - 2	78,319	19.34	0.97	5 - 6	66 - 68	240 - 250	Fan remnants		0 - 2	More than 80	-		Rare		4s	7s
Table Tabl	43 Tn	B Toquop fine sand	2 - 8	314,882	77.78	3.89	5 - 6	66 - 68	240 - 250	Fan remnants		2 - 8	More than 80			Rare		4s	7s
Age 1	Ts.	A Toquop fine sand, watertable	0 - 2	16,489	4.07	0.20	5 - 10	61 - 66	220 - 270	Fan remnants		2 - 8	More than 80			Rare	saline	4w	7w
A	45 Tt	A Toquop fine sandy loam	0 - 2	21,548	5.32	0.27	5 - 6	66 - 68	240 - 250	Stream terraces		0 - 2	More than 80			Rare		4s	7s
Non-sparling Non-	46 _{T\}	/ Typic Torriorthents-Badland association	[15 - 75]	1,439.610	355.58	17.76	4 - 6	61 - 63	280 - 310	Rock pediments	Colluvium derived from sedimentary rock over residuum weathered from	30 - 75	More than 80			None	Nonsaline to slightly saline	-	7e
AB UNB Underton extremely gravelly time sandy loam 2-8 16,003 3.97 0.20 5-7 66-68 180-300 Stream terraces Alluvium derived from limestone 2-8 petrocalcic Well drained More than 80 None (2.0 to 8.0 mmhos/cm)	47									Rock pediments		15 - 75		Well drained	-	-		-	8s
Virgin River silty clay, strongly saline [0 - 2] 11,588 2.86 0.14 4 - 6 66 - 70 220 - 260 Flood plains Calcareous alluvium derived from fanglomerate 0 - 2 More than 80 Softward Fooding of drained Glob to 32.0 mmhos/cm) Calcareous alluvium derived from fanglomerate 0 - 2 More than 80 Softward Fooding of drained Glob to 32.0 mmhos/cm) Calcareous alluvium derived from fanglomerate 0 - 2 More than 80 Softward Fooding of drained Glob to 32.0 mmhos/cm) Calcareous alluvium derived from fanglomerate 0 - 2 More than 80 Softward Fooding of drained Glob to 32.0 mmhos/cm) Calcareous alluvium derived from fanglomerate 2 - 8 Calcareous alluvium	UN 48	Underton extremely gravelly fine sandy loam	2 - 8	16,063	3.97	0.20	5 - 7	66 - 68	180 - 300	Stream terraces	Alluvium derived from limestone	2 - 8		Well drained	More than 80	None		-	7s
	Vr 49	Virgin River silty clay, strongly saline	[0 - 2]	11,588	2.86	0.14	4 - 6	66 - 70	220 - 260	Flood plains		0 - 2	More than 80			Occassional	saline	-	7w
Fan remnants Mixed gravelly alluvium 8 - 30 More than 80 Well drained More than 80 None None (0.0 to 2.0 mmhos/cm) Fan remnants Mixed gravelly alluvium 8 - 30 More than 80 Well drained More than 80 None (0.0 to 2.0 mmhos/cm) Nonsaline (0.0 to 2.0 mmhos/cm) Nonsaline (0.0 to 2.0 mmhos/cm) Fan remnants Mixed gravelly alluvium 8 - 30 More than 80 Well drained More than 80 None (0.0 to 2.0 mmhos/cm) Nonsaline (0.0 to 2.0 mmhos/cm) Fan remnants Mixed gravelly alluvium 8 - 30 More than 80 Well drained More than 80 None (0.0 to 2.0 mmhos/cm) Nonsaline (0.0 to 2.0 mmhos/cm) Fan remnants Mixed gravelly alluvium 8 - 30 More than 80 Well drained More than 80 None (0.0 to 2.0 mmhos/cm) Fan remnants Mixed gravelly alluvium 8 - 30 More than 80 Well drained More than 80 None (0.0 to 2.0 mmhos/cm) Fan remnants Mixed gravelly alluvium 8 - 30 More than 80 Well drained More than 80 None (0.0 to 2.0 mmhos/cm) Fan remnants Mixed gravelly alluvium 8 - 30 More than 80 Well drained More than 80 None (0.0 to 2.0 mmhos/cm) Fan remnants Mixed gravelly alluvium 8 - 30 More than 80 Well drained More than 80 None (0.0 to 2.0 mmhos/cm) Fan remnants Mixed gravelly alluvium 8 - 30 More than 80 Well drained More than 80 None (0.0 to 2.0 mmhos/cm) Fan remnants Mixed gravelly alluvium 8 - 30 More than 80 Well drained More than 80 None (0.0 to 2.0 mmhos/cm)	50 ₅₅	2 Cheme-Huevi association	[2 - 30]	20.035	4.95	0.25	3 - 7	64 to 76	240 - 360	Fan remnants	Alluvium derived from fanglomerate	2 - 8	duripan; 30 to 50 inches to paralithic	Well drained	More than 80	None		-	7s
52	51		(= 3-1)			5.25				Fan remnants	Mixed gravelly alluvium	8 - 30	More than 80	Well drained	More than 80	None	(0.0 to 2.0 mmhos/cm)	-	7s
53 605 Huevi-Badland association [8-30] 105,987 26.18 1.31 3-5 70-76 300-360 Fan remnants Mixed gravelly alluvium 8-30 More than 80 Well drained More than 80 None (0.0 to 2.0 mmhos/cm) - Rock pediments	52									Fan remnants	Mixed gravelly alluvium	8 - 30	More than 80	Well drained	More than 80	None	(0.0 to 2.0 mmhos/cm)	-	7s
Rock pediments Tertiary sandy and silty lacustrine	53 60	5 Huevi-Radland association	[8 - 30]	105 987	26 18	1 31	3 - 5	70 - 76	300 - 360	Fan remnants	Mixed gravelly alluvium	8 - 30	More than 80	Well drained	More than 80	None		-	7 s
	54	The Dadiana association	[0 - 30]	103,307	20.10	1.51	y-y	70 - 70	300 - 300	Rock pediments	Tertiary sandy and silty lacustrine deposits	-	-	-	-	-	-	-	8s
55 TOTALS 8104599 2002.16 100.00 Significant Significa	55		TOTALS	8104599	2002.16	100.00													