

### **F3.3.11**

#### **Risk to Perennial Stream Reaches**

Table F3.3.11-1A Perennial Stream Reaches within the 10-foot Drawdown Contour

Perennial Streams - Project Specific				Proposed Action					
				Full Build Out		75 Years After Full Build Out		200 Years After Full Build Out	
GW Flow System	Basin Number	Basin Name (Upgradient to Downgradient)	Total Estimated Perennial Streams Within Basin (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)
White River	175	Long Valley	0.78						
	174	Jakes Valley	21.78						
	207	White River Valley	76.84						
	180	Cave Valley	2.14					0.16	
	172	Garden Valley	27.66						
	181	Dry Lake Valley	0.94			0.11		0.94	
	209	Pahranagat Valley	21.60					0.47	0.47
	219	Muddy River Springs Area	6.20						
	218	California Wash	7.99						
	220	Lower Moapa Valley	15.79						
Goshute Valley	179	Steptoe Valley	161.83					7.23	4.08
	178B	Butte Valley (Southern Part)	19.08						
Salt Lake Desert	196	Hamiin Valley	5.14					3.33	
	185	Tippett Valley	2.16						
	184	Spring Valley	207.43	8.58	6.37	41.32	26.08	96.95	38.43
	195	Snake Valley	217.80			59.17	54.13	74.73	62.87
Meadow Valley	183	Lake Valley	8.27					8.27	2.87
	201	Spring Valley	43.11					3.55	
	202	Patterson Valley	1.59						
	200	Eagle Valley	3.19						
	198	Dry Valley	3.06						
	203	Panaca Valley	7.44						
	204	Clover Valley	17.86						
	205	Lower Meadow Valley Wash	67.71			3.33		7.86	3.34
<b>Total</b>			947.42	8.58	6.37	103.93	80.21	203.50	112.06

Table F3.3.11-2A Perennial Stream Reaches within the 10-foot Drawdown Contour

Perennial Streams - Project Specific				Alt. A - Distributed Pumping					
				Full Build Out		75 Years After Full Build Out		200 Years After Full Build Out	
GW Flow System	Basin Number	Basin Name (Upgradient to Downgradient)	Total Estimated Perennial Streams Within Basin (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)
White River	175	Long Valley	0.78						
	174	Jakes Valley	21.78						
	207	White River Valley	76.84						
	180	Cave Valley	2.14						
	172	Garden Valley	27.66						
	181	Dry Lake Valley	0.94			0.11		0.94	
	209	Pahranagat Valley	21.60						
	219	Muddy River Springs Area	6.20						
	218	California Wash	7.99						
	220	Lower Moapa Valley	15.79						
Goshute Valley	179	Steptoe Valley	161.83					7.23	4.08
	178B	Butte Valley (Southern Part)	19.08						
Salt Lake Desert	196	Hamiin Valley	5.14					0.39	
	185	Tippett Valley	2.16						
	184	Spring Valley	207.43	1.18	1.18	12.42	6.53	29.97	15.30
	195	Snake Valley	217.80			56.58	51.54	70.33	60.51
Meadow Valley	183	Lake Valley	8.27					4.19	1.07
	201	Spring Valley	43.11					0.61	
	202	Patterson Valley	1.59						
	200	Eagle Valley	3.19						
	198	Dry Valley	3.06						
	203	Panaca Valley	7.44						
	204	Clover Valley	17.86						
	205	Lower Meadow Valley Wash	67.71					0.81	
<b>Total</b>			947.42	1.18	1.18	69.11	58.07	114.47	80.96

Table F3.3.11-3A Perennial Stream Reaches within the 10-foot Drawdown Contour

Perennial Streams - Project Specific				Alt. B - PODs					
				Full Build Out		75 Years After Full Build Out		200 Years After Full Build Out	
GW Flow System	Basin Number	Basin Name (Upgradient to Downgradient)	Total Estimated Perennial Streams Within Basin (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)
White River	175	Long Valley	0.78						
	174	Jakes Valley	21.78						
	207	White River Valley	76.84						
	180	Cave Valley	2.14					1.51	
	172	Garden Valley	27.66						
	181	Dry Lake Valley	0.94					0.94	
	209	Pahranagat Valley	21.60					0.47	0.47
	219	Muddy River Springs Area	6.20						
	218	California Wash	7.99						
220	Lower Moapa Valley	15.79							
Goshute Valley	179	Steptoe Valley	161.83			7.23	4.08	12.94	6.60
	178B	Butte Valley (Southern Part)	19.08						
Salt Lake Desert	196	Hamiin Valley	5.14					2.69	
	185	Tippett Valley	2.16						
	184	Spring Valley	207.43	15.79	3.28	48.19	18.97	88.10	33.70
	195	Snake Valley	217.80			77.64	66.66	120.38	73.03
Meadow Valley	183	Lake Valley	8.27			4.48	1.00	8.27	2.87
	201	Spring Valley	43.11					3.55	
	202	Patterson Valley	1.59						
	200	Eagle Valley	3.19						
	198	Dry Valley	3.06						
	203	Panaca Valley	7.44						
	204	Clover Valley	17.86						
	205	Lower Meadow Valley Wash	67.71			3.33		7.86	3.34
<b>Total</b>			947.42	15.79	3.28	140.86	90.69	246.73	120.01

Table F3.3.11-4A Perennial Stream Reaches within the 10-foot Drawdown Contour

Perennial Streams - Project Specific				Alt. C - Intermittent Pumping/Reduced Quantities					
GW Flow System	Basin Number	Basin Name (Upgradient to Downgradient)	Total Estimated Perennial Streams Within Basin (Miles)	Full Build Out		75 Years After Full Build Out		200 Years After Full Build Out	
				Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)
White River	175	Long Valley	0.78						
	174	Jakes Valley	21.78						
	207	White River Valley	76.84						
	180	Cave Valley	2.14						
	172	Garden Valley	27.66						
	181	Dry Lake Valley	0.94			0.11		0.94	
	209	Pahranagat Valley	21.60						
	219	Muddy River Springs Area	6.20						
	218	California Wash	7.99						
Goshute Valley	220	Lower Moapa Valley	15.79						
	179	Steptoe Valley	161.83						
Salt Lake Desert	178B	Butte Valley (Southern Part)	19.08						
	196	Hamiin Valley	5.14						
	185	Tippett Valley	2.16						
	184	Spring Valley	207.43	1.18	1.18	7.50	4.62	7.50	4.62
Meadow Valley	195	Snake Valley	217.80			32.50	32.50	60.01	54.19
	183	Lake Valley	8.27						
	201	Spring Valley	43.11						
	202	Patterson Valley	1.59						
	200	Eagle Valley	3.19						
	198	Dry Valley	3.06						
	203	Panaca Valley	7.44						
	204	Clover Valley	17.86						
	205	Lower Meadow Valley Wash	67.71					0.02	
<b>Total</b>			947.42	1.18	1.18	40.11	37.11	68.48	58.80

Table F3.3.11-5A Perennial Stream Reaches within the 10-foot Drawdown Contour

Perennial Streams - Project Specific				Alt. D - LCCRDA					
				Full Build Out		75 Years After Full Build Out		200 Years After Full Build Out	
GW Flow System	Basin Number	Basin Name (Upgradient to Downgradient)	Total Estimated Perennial Streams Within Basin (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)
White River	175	Long Valley	0.78						
	174	Jakes Valley	21.78						
	207	White River Valley	76.84						
	180	Cave Valley	2.14						
	172	Garden Valley	27.66						
	181	Dry Lake Valley	0.94			0.11		0.94	
	209	Pahranagat Valley	21.60						
	219	Muddy River Springs Area	6.20						
	218	California Wash	7.99						
220	Lower Moapa Valley	15.79							
Goshute Valley	179	Steptoe Valley	161.83					7.23	4.08
	178B	Butte Valley (Southern Part)	19.08						
Salt Lake Desert	196	Hamiin Valley	5.14			2.69		5.14	
	185	Tippett Valley	2.16						
	184	Spring Valley	207.43			2.30		7.69	3.21
	195	Snake Valley	217.80			3.51	0.69	35.04	26.40
Meadow Valley	183	Lake Valley	8.27			1.83	1.83	8.27	2.87
	201	Spring Valley	43.11			8.22	1.96	19.05	11.25
	202	Patterson Valley	1.59						
	200	Eagle Valley	3.19						
	198	Dry Valley	3.06						
	203	Panaca Valley	7.44						
	204	Clover Valley	17.86						
	205	Lower Meadow Valley Wash	67.71					0.42	
<b>Total</b>			947.42			18.67	4.48	83.78	47.80

Table F3.3.11-6A Perennial Stream Reaches within the 10-foot Drawdown Contour

Perennial Streams - Project Specific				Alt. E - Spring/DDC					
				Full Build Out		75 Years After Full Build Out		200 Years After Full Build Out	
GW Flow System	Basin Number	Basin Name (Upgradient to Downgradient)	Total Estimated Perennial Streams Within Basin (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)
White River	175	Long Valley	0.78						
	174	Jakes Valley	21.78						
	207	White River Valley	76.84						
	180	Cave Valley	2.14						
	172	Garden Valley	27.66						
	181	Dry Lake Valley	0.94			0.11		0.94	
	209	Pahranagat Valley	21.60						
	219	Muddy River Springs Area	6.20						
	218	California Wash	7.99						
	220	Lower Moapa Valley	15.79						
Goshute Valley	179	Steptoe Valley	161.83					7.23	4.08
	178B	Butte Valley (Southern Part)	19.08						
Salt Lake Desert	196	Hamiin Valley	5.14						
	185	Tippett Valley	2.16						
	184	Spring Valley	207.43	1.18	1.18	12.42	6.53	28.62	14.63
	195	Snake Valley	217.80			2.82		10.42	2.87
Meadow Valley	183	Lake Valley	8.27					4.53	1.04
	201	Spring Valley	43.11						
	202	Patterson Valley	1.59						
	200	Eagle Valley	3.19						
	198	Dry Valley	3.06						
	203	Panaca Valley	7.44						
	204	Clover Valley	17.86						
	205	Lower Meadow Valley Wash	67.71					0.78	
<b>Total</b>			947.42	1.18	1.18	15.35	6.53	52.52	22.62

Table F3.3.11-7A Perennial Stream Reaches within the 10-foot Drawdown Contour

Perennial Streams - Project Specific				No Action					
				Full Build Out		75 Years After Full Build Out		200 Years After Full Build Out	
GW Flow System	Basin Number	Basin Name (Upgradient to Downgradient)	Total Estimated Perennial Streams Within Basin (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)
White River	175	Long Valley	0.78						
	174	Jakes Valley	21.78						
	207	White River Valley	76.84			9.53	8.80	9.53	8.80
	180	Cave Valley	2.14						
	172	Garden Valley	27.66						
	181	Dry Lake Valley	0.94			0.83		0.83	
	209	Pahranagat Valley	21.60						
	219	Muddy River Springs Area	6.20						
	218	California Wash	7.99						
Goshute Valley	220	Lower Moapa Valley	15.79						
	179	Steptoe Valley	161.83						
Salt Lake Desert	178B	Butte Valley (Southern Part)	19.08						
	196	Hamiin Valley	5.14						
	185	Tippett Valley	2.16						
	184	Spring Valley	207.43					1.03	0.45
Meadow Valley	195	Snake Valley	217.80						
	183	Lake Valley	8.27			1.83	1.83	4.85	1.83
	201	Spring Valley	43.11			0.32	0.31	25.31	17.49
	202	Patterson Valley	1.59			1.59		1.59	
	200	Eagle Valley	3.19						
	198	Dry Valley	3.06						
	203	Panaca Valley	7.44	2.60	2.60	2.60	2.60	3.23	3.23
	204	Clover Valley	17.86	0.15	0.15	0.74	0.15	15.66	15.07
	205	Lower Meadow Valley Wash	67.71	3.80	3.80	5.04	5.04	8.21	5.53
<b>Total</b>			947.42	6.56	6.56	22.48	18.74	70.23	52.41



**Table F3.3.11-1B Perennial Stream Reaches within the 10-foot Drawdown Contour**

Perennial Streams - Cumulative				Proposed Action					
GW Flow System	Basin Number	Basin Name (Upgradient to Downgradient)	Total Estimated Perennial Streams Within Basin (Miles)	Full Build Out		75 Years After Full Build Out		200 Years After Full Build Out	
				Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)
White River	175	Long Valley	0.78						
	174	Jakes Valley	21.78						
	207	White River Valley	76.84			9.53	8.80	9.53	8.80
	180	Cave Valley	2.14					1.40	0.39
	172	Garden Valley	27.66						
	181	Dry Lake Valley	0.94			0.94		0.94	
	209	Pahranagat Valley	21.60	0.47	0.47	0.47	0.47	0.47	0.47
	219	Muddy River Springs Area	6.20			0.14	0.14	0.95	0.95
	218	California Wash	7.99						
220	Lower Moapa Valley	15.79	2.15	2.15	4.03	4.03	6.05	6.05	
Goshute Valley	179	Steptoe Valley	161.83					7.23	4.08
	178B	Butte Valley (Southern Part)	19.08						
Salt Lake Desert	196	Hamlin Valley	5.14					5.14	
	185	Tippett Valley	2.16						
	184	Spring Valley	207.43	11.05	8.59	49.45	28.70	109.65	39.73
	195	Snake Valley	217.80			61.84	56.47	76.49	63.30
Meadow Valley	183	Lake Valley	8.27			1.83	1.83	8.27	2.87
	201	Spring Valley	43.11			0.32	0.31	27.57	19.76
	202	Patterson Valley	1.59			1.59		1.59	
	200	Eagle Valley	3.19						
	198	Dry Valley	3.06					0.10	0.10
	203	Panaca Valley	7.44	2.60	2.60	2.60	2.60	3.87	3.87
	204	Clover Valley	17.86	17.86	17.27	17.86	17.27	17.86	17.27
		Lower Meadow Valley							
	205	Wash	67.71	11.18	3.80	27.17	10.27	45.70	25.59
<b>Total</b>			<b>947.42</b>	<b>45.31</b>	<b>34.88</b>	<b>177.77</b>	<b>130.90</b>	<b>322.80</b>	<b>193.21</b>

**Table F3.3.11-2B Perennial Stream Reaches within the 10-foot Drawdown Contour**

Perennial Streams - Cumulative				Alt. A - Distributed Pumping					
GW Flow System	Basin Number	Basin Name (Upgradient to Downgradient)	Total Estimated Perennial Streams Within Basin (Miles)	Full Build Out		75 Years After Full Build Out		200 Years After Full Build Out	
				Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)
White River	175	Long Valley	0.78						
	174	Jakes Valley	21.78						
	207	White River Valley	76.84			9.53	8.80	9.53	8.80
	180	Cave Valley	2.14						
	172	Garden Valley	27.66						
	181	Dry Lake Valley	0.94			0.94		0.94	
	209	Pahranagat Valley	21.60	0.47	0.47	0.47	0.47	0.47	0.47
	219	Muddy River Springs Area	6.20			0.14	0.14	0.95	0.95
	218	California Wash	7.99						
Goshute Valley	220	Lower Moapa Valley	15.79	2.15	2.15	4.03	4.03	6.05	6.05
	179	Steptoe Valley	161.83					7.23	4.08
Salt Lake Desert	178B	Butte Valley (Southern Part)	19.08						
	196	Hamiin Valley	5.14					3.33	
	185	Tippett Valley	2.16						
	184	Spring Valley	207.43	5.42	5.25	18.27	11.48	40.69	18.23
Meadow Valley	195	Snake Valley	217.80			58.97	53.94	72.31	61.84
	183	Lake Valley	8.27			1.83	1.83	8.27	2.87
	201	Spring Valley	43.11			0.32	0.31	27.22	19.41
	202	Patterson Valley	1.59			1.59		1.59	
	200	Eagle Valley	3.19						
	198	Dry Valley	3.06					0.10	0.10
	203	Panaca Valley	7.44	2.60	2.60	2.60	2.60	3.51	3.51
	204	Clover Valley	17.86	17.86	17.27	17.86	17.27	17.86	17.27
	205	Lower Meadow Valley Wash	67.71	11.18	3.80	25.65	8.76	42.30	22.19
<b>Total</b>			<b>947.42</b>	<b>39.68</b>	<b>31.54</b>	<b>142.20</b>	<b>109.63</b>	<b>242.35</b>	<b>165.76</b>

**Table F3.3.11-3B Perennial Stream Reaches within the 10-foot Drawdown Contour**

Perennial Streams - Cumulative				Alt. B - PODs					
GW Flow System	Basin Number	Basin Name (Upgradient to Downgradient)	Total Estimated Perennial Streams Within Basin (Miles)	Full Build Out		75 Years After Full Build Out		200 Years After Full Build Out	
				Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)
White River	175	Long Valley	0.78						
	174	Jakes Valley	21.78						
	207	White River Valley	76.84			9.53	8.80	16.48	8.80
	180	Cave Valley	2.14					2.14	0.39
	172	Garden Valley	27.66						
	181	Dry Lake Valley	0.94			0.83		0.94	
	209	Pahranagat Valley	21.60	0.47	0.47	0.47	0.47	0.47	0.47
	219	Muddy River Springs Area	6.20			0.14	0.14	0.95	0.95
	218	California Wash	7.99						
220	Lower Moapa Valley	15.79	2.15	2.15	4.03	4.03	6.05	6.05	
Goshute Valley	179	Steptoe Valley	161.83			7.23	4.08	14.54	7.46
	178B	Butte Valley (Southern Part)	19.08						
Salt Lake Desert	196	Hamiin Valley	5.14					5.14	
	185	Tippett Valley	2.16						
	184	Spring Valley	207.43	17.67	5.17	49.27	19.21	89.12	34.02
	195	Snake Valley	217.80			77.64	66.66	121.67	73.03
Meadow Valley	183	Lake Valley	8.27			6.97	2.87	8.27	2.87
	201	Spring Valley	43.11			1.52	0.31	27.57	19.76
	202	Patterson Valley	1.59			1.59		1.59	
	200	Eagle Valley	3.19						
	198	Dry Valley	3.06					0.10	0.10
	203	Panaca Valley	7.44	2.60	2.60	2.60	2.60	3.87	3.87
	204	Clover Valley	17.86	17.86	17.27	17.86	17.27	17.86	17.27
	205	Lower Meadow Valley Wash	67.71	11.18	3.80	27.17	10.27	45.70	25.59
<b>Total</b>			<b>947.42</b>	<b>51.93</b>	<b>31.46</b>	<b>206.84</b>	<b>136.71</b>	<b>362.46</b>	<b>200.62</b>

**Table F3.3.11-4B Perennial Stream Reaches within the 10-foot Drawdown Contour**

Perennial Streams - Cumulative				Alt. C - Intermittent Pumping/Reduced Quantities					
GW Flow System	Basin Number	Basin Name (Upgradient to Downgradient)	Total Estimated Perennial Streams Within Basin (Miles)	Full Build Out		75 Years After Full Build Out		200 Years After Full Build Out	
				Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)
White River	175	Long Valley	0.78						
	174	Jakes Valley	21.78						
	207	White River Valley	76.84			9.53	8.80	9.53	8.80
	180	Cave Valley	2.14						
	172	Garden Valley	27.66						
	181	Dry Lake Valley	0.94			0.94		0.94	
	209	Pahranagat Valley	21.60	0.47	0.47	0.47	0.47	0.47	0.47
	219	Muddy River Springs Area	6.20			0.14	0.14	0.95	0.95
	218	California Wash	7.99						
220	Lower Moapa Valley	15.79	2.15	2.15	4.03	4.03	6.05	6.05	
Goshute Valley	179	Steptoe Valley	161.83					0.83	0.83
	178B	Butte Valley (Southern Part)	19.08						
Salt Lake Desert	196	Hamiin Valley	5.14					2.20	
	185	Tippett Valley	2.16						
	184	Spring Valley	207.43	5.42	5.25	10.66	7.78	18.72	13.06
	195	Snake Valley	217.80			48.49	45.76	64.01	56.96
Meadow Valley	183	Lake Valley	8.27			1.83	1.83	6.97	2.87
	201	Spring Valley	43.11			0.32	0.31	25.50	17.69
	202	Patterson Valley	1.59			1.59		1.59	
	200	Eagle Valley	3.19						
	198	Dry Valley	3.06					0.10	0.10
	203	Panaca Valley	7.44	2.60	2.60	2.60	2.60	3.51	3.51
	204	Clover Valley	17.86	17.86	17.27	17.86	17.27	17.86	17.27
		Lower Meadow Valley							
	205	Wash	67.71	11.18	3.80	24.87	8.76	42.30	22.19
<b>Total</b>			<b>947.42</b>	<b>39.68</b>	<b>31.54</b>	<b>123.34</b>	<b>97.75</b>	<b>201.53</b>	<b>150.74</b>

**Table F3.3.11-5B Perennial Stream Reaches within the 10-foot Drawdown Contour**

Perennial Streams - Cumulative				Alt. D - LCCRDA					
GW Flow System	Basin Number	Basin Name (Upgradient to Downgradient)	Total Estimated Perennial Streams Within Basin (Miles)	Full Build Out		75 Years After Full Build Out		200 Years After Full Build Out	
				Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)
White River	175	Long Valley	0.78						
	174	Jakes Valley	21.78						
	207	White River Valley	76.84			9.53	8.80	9.53	8.80
	180	Cave Valley	2.14					0.16	
	172	Garden Valley	27.66						
	181	Dry Lake Valley	0.94			0.94		0.94	
	209	Pahranagat Valley	21.60	0.47	0.47	0.47	0.47	0.47	0.47
	219	Muddy River Springs Area	6.20			0.14	0.14	0.95	0.95
	218	California Wash	7.99						
Goshute Valley	220	Lower Moapa Valley	15.79	1.64	1.64	4.03	4.03	6.05	6.05
	179	Steptoe Valley	161.83					7.23	4.08
Salt Lake Desert	178B	Butte Valley (Southern Part)	19.08						
	196	Hamiin Valley	5.14			3.45		5.14	
Meadow Valley	185	Tippett Valley	2.16						
	184	Spring Valley	207.43			6.32	3.44	8.80	3.76
	195	Snake Valley	217.80			4.65	1.60	35.47	26.44
	183	Lake Valley	8.27			4.95	1.83	8.27	2.87
	201	Spring Valley	43.11			14.41	6.60	29.86	22.05
Total	202	Patterson Valley	1.59			1.59		1.59	
	200	Eagle Valley	3.19						
	198	Dry Valley	3.06					0.10	0.10
	203	Panaca Valley	7.44	1.92	1.92	2.60	2.60	3.51	3.51
	204	Clover Valley	17.86	17.86	17.27	17.86	17.27	17.86	17.27
	205	Lower Meadow Valley Wash	67.71	11.18	3.80	17.45	6.08	42.30	22.19
<b>Total</b>			<b>947.42</b>	<b>33.07</b>	<b>25.10</b>	<b>88.39</b>	<b>52.86</b>	<b>178.22</b>	<b>118.52</b>

**Table F3.3.11-6B Perennial Stream Reaches within the 10-foot Drawdown Contour**

Perennial Streams - Cumulative				Alt. E - Spring/DDC					
GW Flow System	Basin Number	Basin Name (Upgradient to Downgradient)	Total Estimated Perennial Streams Within Basin (Miles)	Full Build Out		75 Years After Full Build Out		200 Years After Full Build Out	
				Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)
White River	175	Long Valley	0.78						
	174	Jakes Valley	21.78						
	207	White River Valley	76.84			9.53	8.80	9.53	8.80
	180	Cave Valley	2.14						
	172	Garden Valley	27.66						
	181	Dry Lake Valley	0.94			0.94		0.94	
	209	Pahranagat Valley	21.60	0.47	0.47	0.47	0.47	0.47	0.47
	219	Muddy River Springs Area	6.20			0.14	0.14	0.95	0.95
	218	California Wash	7.99						
220	Lower Moapa Valley	15.79	2.15	2.15	4.03	4.03	6.05	6.05	
Goshute Valley	179	Steptoe Valley	161.83					7.23	4.08
	178B	Butte Valley (Southern Part)	19.08						
Salt Lake Desert	196	Hamiin Valley	5.14					2.51	
	185	Tippett Valley	2.16						
	184	Spring Valley	207.43	5.42	5.25	18.27	11.48	40.69	18.23
	195	Snake Valley	217.80			2.82		26.00	17.48
Meadow Valley	183	Lake Valley	8.27			1.83	1.83	8.27	2.87
	201	Spring Valley	43.11			0.32	0.31	25.52	17.71
	202	Patterson Valley	1.59			1.59		1.59	
	200	Eagle Valley	3.19						
	198	Dry Valley	3.06					0.10	0.10
	203	Panaca Valley	7.44	2.60	2.60	2.60	2.60	3.51	3.51
	204	Clover Valley	17.86	17.86	17.27	17.86	17.27	17.86	17.27
	205	Lower Meadow Valley Wash	67.71	11.18	3.80	25.65	8.76	42.30	22.19
<b>Total</b>			<b>947.42</b>	<b>39.68</b>	<b>31.54</b>	<b>86.05</b>	<b>55.69</b>	<b>193.51</b>	<b>119.70</b>

**Table F3.3.11-7B Perennial Stream Reaches within the 10-foot Drawdown Contour**

Perennial Streams - Cumulative				No Action					
				Full Build Out		75 Years After Full Build Out		200 Years After Full Build Out	
GW Flow System	Basin Number	Basin Name (Upgradient to Downgradient)	Total Estimated Perennial Streams Within Basin (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)	Total Perennial Streams within Drawdown Area (Miles)	Perennial Streams Located in Drawdown Areas and Where Surface Waters Could be Impacted (Miles)
White River	175	Long Valley	0.78						
	174	Jakes Valley	21.78						
	207	White River Valley	76.84			9.53	8.80	9.53	8.80
	180	Cave Valley	2.14						
	172	Garden Valley	27.66						
	181	Dry Lake Valley	0.94			0.83		0.83	
	209	Pahranagat Valley	21.60	0.47	0.47	0.47	0.47	0.47	0.47
	219	Muddy River Springs Area	6.20			0.14	0.14	0.95	0.95
	218	California Wash	7.99						
220	Lower Moapa Valley	15.79	2.15	2.15	4.03	4.03	6.05	6.05	
Goshute Valley	179	Steptoe Valley	161.83						
	178B	Butte Valley (Southern Part)	19.08						
Salt Lake Desert	196	Hamiin Valley	5.14						
	185	Tippett Valley	2.16						
	184	Spring Valley	207.43					1.35	0.77
	195	Snake Valley	217.80						
Meadow Valley	183	Lake Valley	8.27			1.83	1.83	4.85	1.83
	201	Spring Valley	43.11			0.32	0.31	25.31	17.49
	202	Patterson Valley	1.59			1.59		1.59	
	200	Eagle Valley	3.19						
	198	Dry Valley	3.06					0.10	0.10
	203	Panaca Valley	7.44	2.60	2.60	2.60	2.60	3.51	3.51
	204	Clover Valley	17.86	17.86	17.27	17.86	17.27	17.86	17.27
		Lower Meadow Valley							
	205	Wash	67.71	11.18	3.80	18.79	6.08	42.30	22.19
<b>Total</b>			<b>947.42</b>	<b>34.26</b>	<b>26.29</b>	<b>57.99</b>	<b>41.53</b>	<b>114.69</b>	<b>79.43</b>