APPENDIX F

NUTRIENT DATA
from
SWQB and Livingston Associates, P.C.

Sample site		Collection date/time	TKN	NO2+NO3	TN	TP	Units
Site #1		4/24/2003	0.1	0.63	0.73	0.02	mg/L
N Fork Ruidoso -		5/22/2003	0.1	0.83	0.93	0.02	mg/L
Ski Apache		6/26/2003	0.2	0.64	0.84	0.02	mg/L
		7/24/2003	0.2	0.76	0.96	0.02	mg/L
		8/14/2003	0.1	0.71	0.81	0.01	mg/L
		8/29/2003	0.3	0.76	1.06	0.27	mg/L
		9/25/2003	0.1	0.61	0.71	0.005	mg/L
		10/23/2003	0.1	0.52	0.62	0.02	mg/L
		11/20/2003	0.3	0.54	0.84	0.005	mg/L
		12/18/2003	-	-	-	-	mg/L
		1/22/2004	-	-	-	-	mg/L
		2/12/2004	-	-	-	-	mg/L
		2/26/2004	0.2	0.025	0.23	0.005	mg/L
		3/25/2004	0.2	0.93	1.13	0.05	mg/L
		4/22/2004	0.2	0.64	0.84	0.02	mg/L
		5/19/2004	0.3	0.025	0.33	0.01	mg/L
		6/23/2004	0.2	0.61	0.81	0.01	mg/L
		7/22/2004	0.1	0.51	0.61	0.01	mg/L
		8/25/2004	0.3	0.69	0.99	0.01	mg/L
		9/22/2004	0.1	0.025	0.13	0.01	mg/L
		10/20/2004	0.1	0.025	0.13	0.01	mg/L
		11/17/2004	0.1	0.54	0.64	0.04	mg/L
		12/14/2004	0.1	0.025	0.13	0.02	mg/L
		1/19/2005	0.1	0.025	0.13	0.08	mg/L
		2/16/2005	0.1	0.025	0.13	0.11	mg/L
		3/23/2005	0.1	1.33	1.43	0.005	mg/L
	AVERAGE	**ANNUAL**	***0.16***	***0.50***	***0.66***	***0.03***	**mg/L**
	SD	**ANNUAL**	***0.08***	***0.36***	***0.38***	***0.06***	**mg/L**
	SE	**ANNUAL**	***0.02***	***0.08***	***0.08***	***0.01***	**mg/L**
Rio Ruidoso at Mescalero boundary at gauge		5/20/2002 17:30	0.21	0.05	0.260	0.042	mg/L
Rio Ruidoso at Mescalero boundary at gauge		3/18/2003 8:20	0.05	1	1.05	0.015	mg/L
Rio Ruidoso at Mescalero boundary at gauge		4/22/2003 8:15	0.05	1.2	1.25	0.015	mg/L
Rio Ruidoso at Mescalero boundary at gauge		5/20/2003 10:00	0.38	0.46	0.84	0.034	mg/L
Rio Ruidoso at Mescalero boundary at gauge		6/24/2003 7:08	0.437	0.3	0.737	0.041	mg/L
Rio Ruidoso at Mescalero boundary at gauge		7/22/2003 9:00	0.435	0.16	0.595	0.040	mg/L
Rio Ruidoso at Mescalero boundary at gauge		8/19/2003 7:10	0.406	0.05	0.456	0.048	mg/L
Rio Ruidoso at Mescalero boundary at gauge		9/23/2003 7:40	0.215	0.05	0.265	0.050	mg/L
Rio Ruidoso at Mescalero boundary at gauge		10/22/2003 7:30	0.168	0.05	0.218	0.015	mg/L
Rio Ruidoso at Mescalero boundary at gauge		11/2/2004 9:30	0.2	0.34	0.540	0.010	mg/L
	AVERAGE	**ANNUAL**	**0.26**	**0.37**	**0.62**	**0.03**	**mg/L**
	SD	**ANNUAL**	**0.15**	**0.42**	**0.35**	**0.02**	**mg/L**
	SE	**ANNUAL**	**0.05**	**0.13**	**0.11**	**0.005**	**mg/L**
		4/24/2003	0.1	0.95	1.05	0.09	mg/L
Site #2		5/22/2003	0.1	0.83	0.93	0.03	mg/L
R Ruidoso		6/26/2003	0.2	0.56	0.76	0.02	mg/L
at Mescalero		7/24/2003	0.2	0.25	0.45	0.02	mg/L
Boundary		8/14/2003	0.1	0.025	0.13	0.03	mg/L
		8/29/2003	0.1	0.025	0.13	0.09	mg/L
		9/25/2003	0.1	0.025	0.13	0.02	mg/L
		10/23/2003	0.3	0.025	0.33	0.02	mg/L
		11/20/2003	0.2	0.025	0.23	0.02	mg/L
		12/18/2003	0.1	0.025	0.13	0.04	mg/L
		1/22/2004	0.1	0.025	0.13	0.005	mg/L
		2/12/2004	0.1	0.025	0.13	0.005	mg/L
		2/26/2004	0.1	0.8	0.90	0.03	mg/L
		3/25/2004	0.2	1.31	1.51	0.11	mg/L
		4/22/2004	0.2	1.15	1.35	0.02	mg/L
		5/19/2004	0.2	0.025	0.23	0.02	mg/L
		6/23/2004	0.4	0.025	0.43	0.04	mg/L
		7/22/2004	0.1	0.025	0.13	0.04	mg/L
		8/25/2004	0.3	0.025	0.33	0.03	mg/L
		9/22/2004	0.1	0.025	0.13	0.01	mg/L
		10/20/2004	0.1	0.025	0.13	0.01	mg/L
		11/17/2004	0.1	0.025	0.13	0.01	mg/L
		12/14/2004	0.2	0.74	0.94	0.06	mg/L
		1/19/2005	0.1	0.56	0.66	0.005	mg/L
		2/16/2005	0.1	0.025	0.13	0.02	mg/L
		3/23/2005	0.1	1.47	1.57	0.005	mg/L
	AVERAGE	**ANNUAL**	***0.15***	***0.35***	***0.50***	***0.03***	**mg/L**
	SD	**ANNUAL**	***0.08***	***0.47***	***0.47***	***0.03***	**mg/L**
	SE	**ANNUAL**	***0.02***	***0.09***	***0.09***	***0.01***	**mg/L**

Highlighted samples exceed TN or TP criteria

Sample site	Collection date/time	TKN	NO2+NO3	TN	TP	Units
Site #4	4/24/2003	0.1	0.19	0.29	0.005	mg/L
Carrizo @	5/22/2003	0.1	0.74	0.84	0.005	mg/L
Mescalero	6/26/2003	0.1	0.025	0.13	0.005	mg/L
Boundary	7/24/2003	0.2	0.25	0.45	0.005	mg/L
	8/14/2003	0.1	0.025	0.13	0.005	mg/L
	8/29/2003	0.3	0.025	0.33	0.02	mg/L
	9/25/2003	0.1	0.025	0.13	0.01	mg/L
	10/23/2003	0.1	0.025	0.13	0.01	mg/L
	11/20/2003	0.1	0.025	0.13	0.02	mg/L
	12/18/2003	0.1	0.025	0.13	0.005	mg/L
	1/22/2004	0.1	0.025	0.13	0.005	mg/L
	2/12/2004	0.1	0.025	0.13	0.005	mg/L
	2/26/2004	0.1	0.025	0.13	0.005	mg/L
	3/25/2004	0.1	0.025	0.13	0.005	mg/L
	4/22/2004	0.2	0.025	0.23	0.02	mg/L
	5/19/2004	0.1	0.025	0.13	0.01	mg/L
	6/23/2004	0.5	0.025	0.53	0.01	mg/L
	7/22/2004	0.1	0.025	0.13	0.01	mg/L
	8/25/2004	0.2	0.025	0.23	0.01	mg/L
	9/22/2004	0.1	0.025	0.13	0.01	mg/L
	10/20/2004	0.1	0.025	0.13	0.01	mg/L
	11/17/2004	0.1	0.025	0.13	0.01	mg/L
	12/14/2004	0.1	0.025	0.13	0.005	mg/L
	1/19/2005	0.1	0.025	0.13	0.005	mg/L
	2/16/2005	0.1	0.025	0.13	0.12	mg/L
	3/23/2005	0.1	0.91	1.01	0.005	mg/L
AVERAGE	**ANNUAL**	***0.13***	***0.10***	***0.24***	***0.01***	**mg/L**
SD	**ANNUAL**	***0.09***	***0.22***	***0.23***	***0.02***	**mg/L**
SE	**ANNUAL**	***0.02***	***0.04***	***0.05***	***0.00***	**mg/L**
CARRIZO CREEK ABOVE THE RIO RUIDOSO	3/18/2003 9:30	0.23	0.25	0.480	0.015	mg/L
CARRIZO CREEK ABOVE THE RIO RUIDOSO	4/22/2003 9:30	0.05	0.15	0.200	0.015	mg/L
CARRIZO CREEK ABOVE THE RIO RUIDOSO	5/20/2003 11:30	0.127	0.05	0.177	0.015	mg/L
CARRIZO CREEK ABOVE THE RIO RUIDOSO	6/24/2003 8:45	0.246	0.22	0.466	0.015	mg/L
CARRIZO CREEK ABOVE THE RIO RUIDOSO	7/22/2003 10:00	0.33	0.285	0.615	0.015	mg/L
CARRIZO CREEK ABOVE THE RIO RUIDOSO	8/19/2003 8:00	0.3485	0.27	0.619	0.049	mg/L
CARRIZO CREEK ABOVE THE RIO RUIDOSO	9/23/2003 8:20	0.253	0.22	0.473	0.050	mg/L
CARRIZO CREEK ABOVE THE RIO RUIDOSO	10/22/2003 8:30	0.195	0.265	0.460	0.030	mg/L
AVERAGE	**ANNUAL**	**0.22**	**0.21**	**0.44**	**0.03**	**mg/L**
SD	**ANNUAL**	**0.10**	**0.08**	**0.17**	**0.02**	**mg/L**
SE	**ANNUAL**	**0.04**	**0.03**	**0.06**	**0.01**	**mg/L**
Site #5	4/24/2003	0.1	0.68	0.78	0.005	mg/L
Carrizo abv	5/22/2003	0.1	0.67	0.77	0.005	mg/L
R Ruidoso	6/26/2003	0.1	0.025	0.125	0.03	mg/L
	7/24/2003	0.1	0.25	0.35	0.005	mg/L
	8/14/2003	0.3	0.55	0.85	0.03	mg/L
	8/29/2003	0.1	0.025	0.125	0.005	mg/L
	9/25/2003	0.1	0.025	0.125	0.01	mg/L
	10/23/2003	0.1	0.025	0.125	0.01	mg/L
	11/20/2003	0.2	0.025	0.225	0.005	mg/L
	12/18/2003	0.1	0.025	0.125	0.005	mg/L
	1/22/2004	0.2	0.025	0.225	0.005	mg/L
	2/12/2004	0.1	0.025	0.125	0.005	mg/L
	2/26/2004	0.1	0.025	0.125	0.005	mg/L
	3/25/2004	0.3	1.08	1.38	0.08	mg/L
	4/22/2004	0.2	0.94	1.14	0.06	mg/L
	5/19/2004	0.3	0.025	0.33	0.01	mg/L
	6/23/2004	0.3	0.025	0.33	0.05	mg/L
	7/22/2004	0.1	0.025	0.13	0.01	mg/L
	8/25/2004	0.3	0.025	0.33	0.01	mg/L
	9/22/2004	0.1	0.025	0.13	0.01	mg/L
	10/20/2004	0.1	0.025	0.13	0.01	mg/L
	11/17/2004	0.1	0.58	0.68	0.01	mg/L
	12/14/2004	0.1	0.025	0.13	0.005	mg/L
	1/19/2005	0.1	0.025	0.13	0.005	mg/L
	2/16/2005	0.5	0.025	0.53	0.15	mg/L
	3/23/2005	0.1	1.17	1.27	0.005	mg/L
AVERAGE	**ANNUAL**	***0.17***	***0.25***	***0.41***	***0.02***	**mg/L**
SD	**ANNUAL**	***0.11***	***0.37***	***0.39***	***0.03***	**mg/L**
SE	**ANNUAL**	***0.02***	***0.07***	***0.08***	***0.01***	**mg/L**

Highlighted samples exceed TN or TP criteria

Sample site	Collection date/time	TKN	NO2+NO3	TN	TP	Units
RIO RUIDOSO AT USGS GAGING STATION AT HOLLYWOOD	3/18/2003 10:00	0.215	0.46	0.675	0.015	mg/L
RIO RUIDOSO AT USGS GAGING STATION AT HOLLYWOOD	4/22/2003 9:50	0.165	0.78	0.945	0.045	mg/L
RIO RUIDOSO AT USGS GAGING STATION AT HOLLYWOOD	5/20/2003 12:30	0.272	0.16	0.432	0.015	mg/L
RIO RUIDOSO AT USGS GAGING STATION AT HOLLYWOOD	6/24/2003 9:15	0.55	0.05	0.600	0.015	mg/L
RIO RUIDOSO AT USGS GAGING STATION AT HOLLYWOOD	7/22/2003 11:00	0.05	0.13	0.180	0.032	mg/L
RIO RUIDOSO AT USGS GAGING STATION AT HOLLYWOOD	8/19/2003 9:15	0.332	0.05	0.382	0.045	mg/L
RIO RUIDOSO AT USGS GAGING STATION AT HOLLYWOOD	9/2/2003 9:40	0.175	0.05	0.225	0.058	mg/L
RIO RUIDOSO AT USGS GAGING STATION AT HOLLYWOOD	9/23/2003 9:10	0.175	0.05	0.225	0.050	mg/L
RIO RUIDOSO AT USGS GAGING STATION AT HOLLYWOOD	10/22/2003 9:40	0.16	0.05	0.210	0.015	mg/L
AVERAGE	**ANNUAL**	**0.23**	**0.20**	**0.43**	**0.03**	**mg/L**
SD	**ANNUAL**	**0.14**	**0.26**	**0.26**	**0.02**	**mg/L**
SE	**ANNUAL**	**0.05**	**0.09**	**0.09**	**0.01**	**mg/L**
Site #10	4/24/2003	0.1	0.58	0.68	0.005	mg/L
R Ruidoso	5/22/2003	0.1	0.65	0.75	0.005	mg/L
at Hollywood	6/26/2003	0.2	0.025	0.23	0.01	mg/L
	7/24/2003	0.2	0.25	0.45	0.09	mg/L
	8/14/2003	0.4	0.025	0.43	0.18	mg/L
	8/29/2003	0.2	0.025	0.23	0.03	mg/L
	9/25/2003	0.1	0.025	0.13	0.005	mg/L
	10/23/2003	0.1	0.025	0.13	0.09	mg/L
	11/20/2003	0.1	0.025	0.13	0.02	mg/L
	12/18/2003	0.1	0.025	0.13	0.005	mg/L
	1/22/2004	0.1	0.025	0.13	0.005	mg/L
	2/12/2004	0.1	0.025	0.13	0.005	mg/L
	2/26/2004	0.1	0.025	0.13	0.005	mg/L
	3/25/2004	0.1	0.89	0.99	0.12	mg/L
	4/22/2004	0.4	0.85	1.25	0.06	mg/L
	5/19/2004	0.3	0.025	0.33	0.01	mg/L
	6/23/2004	0.2	0.025	0.23	0.01	mg/L
	7/22/2004	0.1	0.025	0.13	0.01	mg/L
	8/25/2004	0.1	0.025	0.13	0.01	mg/L
	9/22/2004	0.1	0.025	0.13	0.01	mg/L
	10/20/2004	0.1	0.025	0.13	0.01	mg/L
	11/17/2004	0.1	0.025	0.13	0.01	mg/L
	12/14/2004	0.4	0.025	0.43	0.04	mg/L
	1/19/2005	0.1	0.025	0.13	0.005	mg/L
	2/16/2005	0.4	0.025	0.43	0.11	mg/L
	3/23/2005	0.1	1.02	1.12	0.005	mg/L
AVERAGE	**ANNUAL**	***0.17***	***0.18***	***0.35***	***0.03***	**mg/L**
SD	**ANNUAL**	***0.11***	***0.32***	***0.34***	***0.05***	**mg/L**
SE	**ANNUAL**	***0.02***	***0.06***	***0.07***	***0.01***	**mg/L**
Site #9	4/24/2003	0.1	0.59	0.69	0.010	mg/L
R Ruidoso	5/22/2003	0.2	0.69	0.89	0.005	mg/L
abv Racetrack	6/26/2003	0.1	0.025	0.13	0.005	mg/L
near Walmart	7/24/2003	0.2	0.25	0.45	0.02	mg/L
(Susan Lattimer)	8/14/2003	0.2	0.025	0.23	0.07	mg/L
	8/29/2003	0.4	0.025	0.43	0.28	mg/L
	9/25/2003	0.1	0.025	0.13	0.005	mg/L
	10/23/2003	0.1	0.025	0.13	0.005	mg/L
	11/20/2003	0.1	0.025	0.13	0.005	mg/L
	12/18/2003	0.1	0.025	0.13	0.005	mg/L
	1/22/2004	0.1	0.025	0.13	0.005	mg/L
	2/12/2004	0.1	0.025	0.13	0.03	mg/L
	2/26/2004	0.1	0.025	0.13	0.005	mg/L
	3/25/2004	0.1	1	1.10	0.17	mg/L
	4/22/2004	0.5	0.82	1.32	0.08	mg/L
	5/19/2004	0.3	1.37	1.67	0.01	mg/L
	6/23/2004	0.1	0.025	0.13	0.01	mg/L
	7/22/2004	0.1	0.025	0.13	0.01	mg/L
	8/25/2004	0.1	0.025	0.13	0.03	mg/L
	9/22/2004	0.1	0.025	0.13	0.01	mg/L
	10/20/2004	0.1	0.025	0.13	0.01	mg/L
	11/17/2004	0.1	0.025	0.13	0.01	mg/L
	12/14/2004	2.1	0.025	2.13	0.04	mg/L
	1/19/2005	0.1	0.025	0.13	0.005	mg/L
	2/16/2005	0.5	0.025	0.53	0.11	mg/L
	3/23/2005	0.1	1.03	1.13	0.005	mg/L
AVERAGE	**ANNUAL**	***0.24***	***0.24***	***0.48***	***0.04***	**mg/L**
SD	**ANNUAL**	***0.40***	***0.40***	***0.56***	***0.06***	**mg/L**
SE	**ANNUAL**	***0.08***	***0.08***	***0.11***	***0.01***	**mg/L**

Highlighted samples exceed TN or TP criteria

Sample site		Collection date/time	TKN	NO2+NO3	TN	TP	Units
Rio Ruidoso below Ruidoso Downs Racetrack Property		3/18/2003 11:00	0.198	0.44	0.638	0.032	mg/L
Rio Ruidoso below Ruidoso Downs Racetrack Property		4/22/2003 10:15	0.05	0.74	0.790	0.015	mg/L
Rio Ruidoso below Ruidoso Downs Racetrack Property		5/20/2003 13:12	0.112	0.13	0.242	0.015	mg/L
Rio Ruidoso below Ruidoso Downs Racetrack Property		6/24/2003 9:40	0.423	0.05	0.473	0.015	mg/L
Rio Ruidoso below Ruidoso Downs Racetrack Property		7/22/2003 11:30	0.59	0.13	0.72	0.039	mg/L
Rio Ruidoso below Ruidoso Downs Racetrack Property		9/2/2003 9:55	0.05	0.05	0.100	0.024	mg/L
Rio Ruidoso below Ruidoso Downs Racetrack Property		9/23/2003 9:40	0.326	0.05	0.376	0.050	mg/L
Rio Ruidoso below Ruidoso Downs Racetrack Property		10/22/2003 10:10	0.203	0.05	0.253	0.015	mg/L
	AVERAGE	**ANNUAL**	**0.24**	**0.21**	**0.45**	**0.03**	**mg/L**
	SD	**ANNUAL**	**0.19**	**0.25**	**0.25**	**0.01**	**mg/L**
	SE	**ANNUAL**	**0.07**	**0.09**	**0.09**	**0.005**	**mg/L**
Site #11		4/24/2003	0.1	0.57	0.67	0.01	mg/L
R Ruidoso		5/22/2003	0.2	0.64	0.84	0.005	mg/L
blw Racetrack		6/26/2003	0.2	0.025	0.23	0.02	mg/L
		7/24/2003	0.2	0.25	0.45	0.01	mg/L
		8/14/2003	0.3	0.025	0.33	0.04	mg/L
		8/29/2003	0.2	0.025	0.23	0.02	mg/L
		9/25/2003	0.1	0.025	0.13	0.01	mg/L
		10/23/2003	0.1	0.025	0.13	0.005	mg/L
		11/20/2003	0.1	0.025	0.13	0.005	mg/L
		12/18/2003	0.1	0.025	0.13	0.01	mg/L
		1/22/2004	0.1	0.025	0.13	0.005	mg/L
		2/12/2004	0.1	0.025	0.13	0.005	mg/L
		2/26/2004	0.2	0.025	0.23	0.005	mg/L
		3/25/2004	0.3	0.89	1.19	0.09	mg/L
		4/22/2004	0.3	0.89	1.19	0.04	mg/L
		5/19/2004	0.4	0.51	0.91	0.01	mg/L
		6/23/2004	0.2	0.025	0.23	0.01	mg/L
		7/22/2004	0.4	0.025	0.43	0.07	mg/L
		8/25/2004	0.1	0.025	0.13	0.04	mg/L
		9/22/2004	0.1	0.025	0.13	0.01	mg/L
		10/20/2004	0.1	0.025	0.13	0.01	mg/L
		11/17/2004	0.1	0.025	0.13	0.01	mg/L
		12/14/2004	0.1	0.025	0.13	0.04	mg/L
		1/19/2005	0.1	0.025	0.13	0.005	mg/L
		2/16/2005	0.5	0.025	0.53	0.17	mg/L
		3/23/2005	0.1	1.02	1.12	0.005	mg/L
	AVERAGE	**ANNUAL**	***0.18***	***0.20***	***0.39***	***0.02***	**mg/L**
	SD	**ANNUAL**	***0.12***	***0.32***	***0.37***	***0.04***	**mg/L**
	SE	**ANNUAL**	***0.02***	***0.06***	***0.07***	***0.01***	**mg/L**
Rio Ruidoso 0.5 miles above WWTP at HWY 70 bridge above seeping springs		5/20/2002 16:20	0.222	0.05	0.272	0.015	mg/L
		3/18/2003 11:40	0.184	0.44	0.624	0.032	mg/L
		4/22/2003 10:45	0.167	0.6	0.767	0.043	mg/L
		5/20/2003 14:00	0.139	0.27	0.409	0.015	mg/L
		6/24/2003 10:40	0.33	0.17	0.500	0.015	mg/L
		7/22/2003 12:10	0.221	0.25	0.471	0.015	mg/L
		8/19/2003 10:40	0.299	0.22	0.519	0.036	mg/L
		9/2/2003 10:20	2.39	10.58	12.97	2.78	mg/L
		9/9/2003 12:40	0.05	0.15	0.200	0.015	mg/L
		9/23/2003 10:15	0.189	0.2	0.389	0.500	mg/L
		10/22/2003 10:40	0.245	0.17	0.415	0.077	mg/L
	AVERAGE	**ANNUAL**	**0.40**	**1.19**	**1.59**	**0.32**	**mg/L**
	SD	**ANNUAL**	**0.66**	**3.12**	**3.78**	**0.83**	**mg/L**
	SE	**ANNUAL**	**0.20**	**0.94**	**1.14**	**0.25**	**mg/L**
Site #13		4/24/2003	0.1	0.51	0.61	0.02	mg/L
R Ruidoso		5/22/2003	0.2	0.78	0.98	0.01	mg/L
0.5 miles abv		6/26/2003	0.1	0.025	0.13	0.07	mg/L
WWTP		7/24/2003	0.3	0.25	0.55	0.01	mg/L
		8/14/2003	0.6	0.025	0.63	0.72	mg/L
		8/29/2003	0.4	0.025	0.43	0.13	mg/L
		9/25/2003	0.1	0.025	0.13	0.03	mg/L
		10/23/2003	0.1	0.025	0.13	0.10	mg/L
		11/20/2003	0.2	0.025	0.23	0.02	mg/L
		12/18/2003	0.1	0.025	0.13	0.02	mg/L
		1/22/2004	0.1	0.025	0.13	0.005	mg/L
		2/12/2004	0.1	0.025	0.13	0.05	mg/L
		2/26/2004	0.1	0.025	0.13	0.005	mg/L
		3/25/2004	0.5	0.96	1.46	0.27	mg/L
		4/22/2004	0.4	0.7	1.10	0.09	mg/L

Highlighted samples exceed TN or TP criteria

Sample site		Collection date/time	TKN	NO2+NO3	TN	TP	Units
		5/19/2004	0.3	0.025	0.33	0.01	mg/L
		6/23/2004	0.1	0.025	0.13	0.01	mg/L
		7/22/2004	0.2	0.025	0.23	0.01	mg/L
		8/25/2004	0.2	0.025	0.23	0.02	mg/L
		9/22/2004	0.1	0.025	0.13	0.01	mg/L
		10/20/2004	0.1	0.025	0.13	0.01	mg/L
		11/17/2004	0.1	0.025	0.13	0.01	mg/L
		12/14/2004	0.1	0.025	0.13	0.02	mg/L
		1/19/2005	0.1	0.025	0.13	0.005	mg/L
		2/16/2005	0.7	0.025	0.73	0.24	mg/L
		3/23/2005	0.1	0.99	1.09	0.005	mg/L
	AVERAGE	**ANNUAL**	***0.21***	***0.18***	***0.39***	***0.07***	**mg/L**
	SD	**ANNUAL**	***0.17***	***0.32***	***0.39***	***0.15***	**mg/L**
	SE	**ANNUAL**	***0.03***	***0.06***	***0.08***	***0.03***	**mg/L**
Site #6		4/24/2003	0.1	0.65	0.75	0.02	mg/L
R Ruidoso		5/22/2003	0.1	0.68	0.78	0.005	mg/L
blw Cedar Cr.		6/26/2003	0.2	0.025	0.23	0.005	mg/L
		7/24/2003	0.2	0.25	0.45	0.02	mg/L
		8/14/2003	0.2	0.025	0.23	0.04	mg/L
		8/29/2003	0.5	0.025	0.53	0.03	mg/L
		9/25/2003	0.1	0.025	0.13	0.01	mg/L
		10/23/2003	0.1	0.025	0.13	0.01	mg/L
		11/20/2003	0.2	0.025	0.23	0.005	mg/L
		12/18/2003	0.1	0.025	0.13	0.06	mg/L
		1/22/2004	0.1	0.025	0.13	0.005	mg/L
		2/12/2004	0.1	0.025	0.13	0.005	mg/L
		2/26/2004	0.1	0.025	0.13	0.005	mg/L
		3/25/2004	0.8	0.99	1.79	0.18	mg/L
		4/22/2004	0.2	0.98	1.18	0.03	mg/L
		5/19/2004	0.4	0.025	0.43	0.01	mg/L
		6/23/2004	0.5	0.025	0.53	0.05	mg/L
		7/22/2004	0.1	0.025	0.13	0.01	mg/L
		8/25/2004	0.3	0.025	0.33	0.03	mg/L
		9/22/2004	0.1	0.025	0.13	0.02	mg/L
		10/20/2004	0.1	0.025	0.13	0.02	mg/L
		11/17/2004	0.1	0.025	0.13	0.01	mg/L
		12/14/2004	0.1	0.025	0.13	0.005	mg/L
		1/19/2005	0.1	0.025	0.13	0.005	mg/L
		2/16/2005	0.4	0.025	0.43	0.10	mg/L
		3/23/2005	0.1	1.1	1.20	0.005	mg/L
	AVERAGE	**ANNUAL**	***0.21***	***0.19***	***0.40***	***0.02***	**mg/L**
	SD	**ANNUAL**	***0.15***	***0.40***	***0.40***	***0.03***	**mg/L**
	SE	**ANNUAL**	***0.04***	***0.11***	***0.11***	***0.01***	**mg/L**
Site #8		4/24/2003	0.1	0.63	0.73	0.005	mg/L
R Ruidoso		5/22/2003	0.1	0.68	0.78	0.005	mg/L
blw Gavilan		6/26/2003	0.1	0.025	0.13	0.01	mg/L
Canyon		7/24/2003	0.2	0.25	0.45	0.01	mg/L
		8/14/2003	0.1	0.025	0.13	0.07	mg/L
		8/29/2003	0.3	0.025	0.33	0.05	mg/L
		9/25/2003	0.1	0.025	0.13	0.005	mg/L
		10/23/2003	0.1	0.025	0.13	0.02	mg/L
		11/20/2003	0.1	0.025	0.13	0.01	mg/L
		12/18/2003	0.1	0.025	0.13	0.005	mg/L
		1/22/2004	0.2	0.025	0.23	0.005	mg/L
		2/12/2004	0.1	0.025	0.13	0.005	mg/L
		2/26/2004	0.2	0.025	0.23	0.005	mg/L
		3/25/2004	0.5	1.01	1.51	0.05	mg/L
		4/22/2004	0.3	0.91	1.21	0.03	mg/L
		5/19/2004	0.3	0.025	0.33	0.01	mg/L
		6/23/2004	0.4	0.025	0.43	0.03	mg/L
		7/22/2004	0.1	0.025	0.13	0.01	mg/L
		8/25/2004	0.1	0.025	0.13	0.01	mg/L
		9/22/2004	0.2	0.025	0.23	0.01	mg/L
		10/20/2004	0.1	0.025	0.13	0.01	mg/L
		11/17/2004	0.1	0.025	0.13	0.01	mg/L
		12/14/2004	0.1	0.025	0.13	0.005	mg/L
		1/19/2005	0.1	0.025	0.13	0.005	mg/L
		2/16/2005	0.7	0.025	0.73	0.26	mg/L

Highlighted samples exceed TN or TP criteria

Sample site		Collection date/time	TKN	NO2+NO3	TN	TP	Units
		3/23/2005	0.1	1.05	1.15	0.005	mg/L
	AVERAGE	**ANNUAL**	***0.19***	***0.19***	***0.38***	***0.02***	**mg/L**
	SD	**ANNUAL**	***0.15***	***0.34***	***0.39***	***0.05***	**mg/L**
	SE	**ANNUAL**	***0.03***	***0.07***	***0.08***	***0.01***	**mg/L**
Site #12		4/24/2003	0.1	0.63	0.73	0.02	mg/L
R Ruidoso at		5/22/2003	0.1	0.66	0.76	0.005	mg/L
Parker Rd bridge		6/26/2003	0.2	0.025	0.23	0.02	mg/L
		7/24/2003	0.3	0.25	0.55	0.01	mg/L
		8/14/2003	0.4	0.025	0.43	0.22	mg/L
		8/29/2003	0.4	0.025	0.43	0.24	mg/L
		9/25/2003	0.1	0.025	0.13	0.03	mg/L
		10/23/2003	0.1	0.025	0.13	0.01	mg/L
		11/20/2003	0.1	0.025	0.13	0.98	mg/L
		12/18/2003	0.1	0.025	0.13	0.005	mg/L
		1/22/2004	0.2	0.025	0.23	0.005	mg/L
		2/12/2004	0.1	0.025	0.13	0.02	mg/L
		2/26/2004	0.1	0.025	0.13	0.005	mg/L
		3/25/2004	0.1	0.85	0.95	0.03	mg/L
		4/22/2004	0.3	0.84	1.14	0.07	mg/L
		5/19/2004	0.4	0.025	0.43	0.01	mg/L
		6/23/2004	0.3	0.025	0.33	0.01	mg/L
		7/22/2004	0.2	0.025	0.23	0.01	mg/L
		8/25/2004	0.1	0.025	0.13	0.01	mg/L
		9/22/2004	0.1	0.025	0.13	0.01	mg/L
		10/20/2004	0.1	0.025	0.13	0.01	mg/L
		11/17/2004	0.1	0.025	0.13	0.01	mg/L
		12/14/2004	0.1	0.025	0.13	0.03	mg/L
		1/19/2005	0.1	0.025	0.13	0.03	mg/L
		2/16/2005	0.1	0.025	0.13	0.03	mg/L
		3/23/2005	0.1	0.025	0.13	0.03	mg/L
	AVERAGE	**ANNUAL**	***0.17***	***0.14***	***0.31***	***0.07***	**mg/L**
	SD	**ANNUAL**	***0.11***	***0.27***	***0.29***	***0.19***	**mg/L**
	SE	**ANNUAL**	***0.02***	***0.05***	***0.06***	***0.04***	**mg/L**
AVERAGE Upstream TOTAL		**ANNUAL**	**0.19**	**0.26**	**0.46**	**0.04**	**mg/L**

Highlighted samples exceed TN or TP criteria

Aggregate Ecoregion II		TN	TP		
Level III Ecoregion 23	fall	0.27	0.013	mg/L	n = 25 & 53
(25th percentiles)	spring	0.20	0.010	mg/L	n = 25 & 53
	summer	0.29	0.020	mg/L	n = 34 & 63
(USEPA 2000)	winter	0.30	0.010	mg/L	n = 10 & 40
	AVERAGE	0.262	0.014	mg/L	n = 94 & 209

		TN	TP	
AVERAGE Ambient Concentration (C_a)	**ANNUAL**	**0.41**	**0.032**	**mg/L**