Table A1.—Concentrations of nitrogen, phosphorus, and suspended solids in surface-water samples collected from Park Avenue stormwater collection and detention system, South Lake Tahoe, California, water years 2006-07.

[Site locations and numbers are shown in figure 3. The term "water year" means a 12-month period beginning October 1 and ending September 30. Abbreviations: µg/L, microgram per liter; N, nitrogen; P, phosphorus; mg/L, milligram per liter; --, no data]

Site No.	Date	Time	Nitrogen, unfiltered (µg/L)	Organic nitrogen, unfiltered (µg/L as N)	Ammonia, filtered (µg/L as N)	Nitrate + nitrite, filtered (µg/L as N)	Phosphorus, unfiltered (µg/L as P)	Phosphorus, filtered (µg/L as P)	Orthophosphate, filtered (µg/L as P)	Suspended solids, unfiltered (mg/L)
PA1_inletA	11-25-05	--	1,900	1,100	480	320	750	380	370	--
	11-29-05	1450	710	400	57	260	160	64	59	--
	12-01-05	1400	800	710	39	48	360	180	170	--
	12-07-05	1450	1,100	570	75	470	150	50	36	26
	12-28-05	1200	750	600	24	120	250	120	120	--
	03-06-06	1545	1,500	1,300	8	210	680	38	34	190
	05-10-06	1340	1,400	800	370	270	260	200	170	5.9
	01-04-07	1620	1,300	1,200	59	79	530	52	41	140
	02-01-07	1400	2,800	2,100	460	220	280	41	33	60
	03-02-07	1210	7,400	6,600	220	620	1,500	98	97	180
PA1_inletB	11-25-05	--	1,000	720	55	250	210	130	120	--
	11-29-05	1455	570	470	29	74	120	50	38	--
	12-01-05	1400	870	820	26	27	240	98	79	--
	12-07-05	1500	710	60	84	560	80	56	44	0.6
	12-28-05	1200	590	530	9	46	170	30	23	--
	03-06-06	1545	1,500	1,200	8	270	370	42	30	82
	04-18-06	1700	390	310	20	55	80	30	22	8.7
	05-10-06	1335	1,800	1,700	36	100	490	110	84	43
	01-04-07	1645	1,200	1,100	28	92	200	56	51	28
	02-10-07	0800	2,300	2,300	6	82	620	44	14	110
	02-10-07	1202	1,300	1,300	10	78	340	82	41	65

Table A1.—Concentrations of nitrogen, phosphorus, and suspended solids in surface-water samples collected from Park Avenue stormwater collection and detention system, South Lake Tahoe, California, water years 2006-07—Continued.

Site No.	Date	Time	Nitrogen, unfiltered (µg/L)	Organic nitrogen, unfiltered (µg/L as N)	Ammonia, filtered (µg/L as N)	Nitrate + nitrite, filtered (µg/L as N)	Phosphorus, unfiltered (µg/L as P)	Phosphorus, filtered (µg/L as P)	Orthophosphate, filtered (µg/L as P)	Suspended solids, unfiltered (mg/L)
PA1_inletB	02-10-07	1955	990	980	8	22	470	120	31	100
PA1	12-14-06	1155	530	490	32	15	69	17	4	--
	02-09-07	0730	2,100	1,900	25	120	1,000	92	56	270
	02-10-07	1946	3,600	3,600	10	120	1,200	60	32	560
	02-10-07	2124	2,100	2,000	8	3	1,100	43	30	260
	02-10-07	2221	890	880	6	3	380	52	41	81
	04-09-07	1222	870	840	22	4	98	28	14	40
	05-07-07	1340	780	560	220	490	96	41	28	--
PA1_out	11-29-05	1500	970	640	130	200	240	80	69	--
	12-01-05	1400	730	610	38	88	260	150	140	--
	12-07-05	1500	900	480	15	400	66	27	15	6
	12-28-05	1200	220	120	9	91	240	94	84	--
	03-06-06	1545	780	710	46	30	100	39	20	20
	04-18-06	1635	820	700	19	100	140	38	25	21
	05-10-06	1400	610	480	55	74	310	260	240	7
PA2	12-28-05	1200	320	140	25	150	180	69	60	--

Table A2.—Concentrations of selected species of nitrogen and phosphorus in ground-water samples from observation wells near Park Avenue stormwater collection and detention system, South Lake Tahoe, California, water years 2006-07.

[Site locations and numbers are shown in figure 3. The term "water year" means a 12-month period beginning October 1 and ending September 30. Abbreviations: µg/L, micrograms per liter; N, nitrogen; P, phosphorus; <, less than]

Site No.	Date	Time	Nitrogen, filtered (µg/L as N)	Organic nitrogen, filtered (µg/L as N)	Ammonia, filtered (µg/L as N)	Nitrate + nitrite, filtered (µg/L as N)	Phosphorus, filtered (µg/L as P)	Orthophosphate, filtered (µg/L as P)
MW194	12-07-05	1400	170	150	8	8	11	3
	02-13-06	1230	80	50	21	10	61	27
	03-06-06	1731	2,000	1,800	91	130	15	11
	04-18-06	1345	310	280	17	14	21	3
	05-10-06	1245	120	20	59	39	20	5
	12-14-06	0830	420	120	76	230	22	5
	02-01-07	1450	210	160	41	10	8	1
	04-09-07	0910	220	180	36	4	4	1
	05-07-07	1120	150	130	21	2	3	3
MW196	11-07-05	1600	2,300	40	26	2,200	25	2
	12-07-05	1420	2,000	90	2	1,900	10	2
	02-14-06	1200	2,200	<35	3	2,200	40	4
	03-06-06	1225	2,100	130	9	1,900	13	3
	04-18-06	1530	2,300	<35	2	2,300	24	1
	05-09-06	1230	2,000	<35	3	2,000	14	4
	12-14-06	1035	1,300	<35	5	1,300	25	3
	02-01-07	1200	1,400	170	73	1,200	10	2
	03-02-07	1149	2,500	110	7	2,400	17	5
	04-09-07	1205	1,200	<35	4	1,100	12	2

Table A2.—Concentrations of selected species of nitrogen and phosphorus in ground-water samples from observation wells near Park Avenue stormwater collection and detention system, South Lake Tahoe, California, water years 2006-07—Continued.

Site No.	Date	Time	Nitrogen, filtered (µg/L as N)	Organic nitrogen, filtered (µg/L as N)	Ammonia, filtered (µg/L as N)	Nitrate + nitrite, filtered (µg/L as N)	Phosphorus, filtered (µg/L as P)	Orthophosphate, filtered (µg/L as P)
MW196	05-07-07	1330	1,700	180	62	1,500	23	3
MW197	11-07-05	1605	2,800	70	28	2,700	26	4
	12-07-05	1430	2,800	270	3	2,500	12	2
	02-14-06	1320	2,600	40	4	2,500	43	10
	03-06-06	1235	2,800	240	240	2,200	19	4
	04-18-06	1540	2,800	370	21	2,400	30	2
	05-09-06	1100	2,500	70	2	2,500	24	10
	12-14-06	1045	1,900	300	14	1,600	30	3
	02-01-07	1205	2,300	80	65	2,200	11	2
	03-02-07	1200	4,600	150	8	4,400	17	7
	04-09-07	1200	1,200	<35	26	1,500	13	7
	05-07-07	1320	2,100	240	38	1,800	13	2
MW198A	11-07-05	1628	490	290	200	3	21	3
	02-16-06	1400	470	100	300	76	41	18
	03-06-06	1245	410	55	226	130	14	2
	04-18-06	1550	680	270	170	240	31	2
	05-09-06	0945	790	280	170	330	34	10
	12-14-06	1115	630	340	280	8	19	2
	02-01-07	1240	650	290	350	7	10	1
	03-01-07	1630	560	230	330	2	10	2
	04-09-07	1145	590	260	330	1	6	1
	05-07-07	1313	710	340	370	2	9	8

Table A2.—Concentrations of selected species of nitrogen and phosphorus in ground-water samples from observation wells near Park Avenue stormwater collection and detention system, South Lake Tahoe, California, water years 2006-07—Continued.

Site No.	Date	Time	Nitrogen, filtered (µg/L as N)	Organic nitrogen, filtered (µg/L as N)	Ammonia, filtered (µg/L as N)	Nitrate + nitrite, filtered (µg/L as N)	Phosphorus, filtered (µg/L as P)	Orthophosphate, filtered (µg/L as P)
MW198B	11-07-05	1610	180	160	4	13	22	2
	12-07-05	1441	230	200	18	6	13	1
	02-16-06	1300	97	90	6	1	19	5
	05-09-06	1030	82	75	6	1	15	2
MW199A	11-07-05	1636	420	170	250	3	20	3
	12-07-05	1450	600	320	270	8	10	4
	02-14-06	1000	690	160	520	4	120	15
	03-06-06	1251	830	430	400	1	12	4
	04-18-06	1610	710	360	340	4	23	7
	05-09-06	1400	790	300	480	7	420	380
	12-14-06	1145	950	400	540	10	26	1
	02-01-07	1250	1,300	410	830	8	10	1
	03-01-07	1600	570	310	260	4	16	5
	04-09-07	1135	670	230	440	3	12	3
	05-07-07	1305	970	480	490	3	7	1
MW199B	11-07-05	1641	210	200	4	8	19	3
	02-14-06	1100	95	87	7	1	32	10
	05-09-06	1330	120	120	5	1	20	6
MW200	11-07-05	1650	260	230	21	8	20	4
	12-07-05	1500	230	200	3	26	35	26
	02-14-06	1400	300	150	73	80	98	62

Table A2.—Concentrations of selected species of nitrogen and phosphorus in ground-water samples from observation wells near Park Avenue stormwater collection and detention system, South Lake Tahoe, California, water years 2006-07—Continued.

Site No.	Date	Time	Nitrogen, filtered (µg/L as N)	Organic nitrogen, filtered (µg/L as N)	Ammonia, filtered (µg/L as N)	Nitrate + nitrite, filtered (µg/L as N)	Phosphorus, filtered (µg/L as P)	Orthophosphate, filtered (µg/L as P)
MW200	03-06-06	1300	250	200	49	1	44	38
	04-18-06	1620	590	380	210	3	47	28
	05-10-06	1345	580	350	240	1	84	68
	12-14-06	1135	560	280	270	15	30	4
	02-01-07	1300	480	230	250	6	7	1
	03-01-07	1540	370	290	73	6	13	2
	04-09-07	1125	310	250	56	2	13	10
	05-07-07	1300	480	430	44	2	23	11
MW201A	11-07-05	1710	4,400	190	29	4,100	160	140
	02-16-06	1015	265	120	5	140	85	80
	04-18-06	1800	1,100	240	42	850	18	2
	05-10-06	0945	270	130	2	140	97	91
	12-14-06	1220	200	180	10	6	150	140
	02-01-07	1325	250	240	9	1	110	110
	03-01-07	1457	330	300	15	22	160	160
	04-09-07	1233	320	210	5	100	160	140
	05-07-07	1412	390	360	6	32	180	158
MW201B	11-07-05	1716	2,500	25	34	2,400	35	13
	12-07-05	1510	1,000	250	3	750	96	87
	02-16-06	1100	380	78	3	290	44	29

Table A2.—Concentrations of selected species of nitrogen and phosphorus in ground-water samples from observation wells near Park Avenue stormwater collection and detention system, South Lake Tahoe, California, water years 2006-07—Continued.

Site No.	Date	Time	Nitrogen, filtered (µg/L as N)	Organic nitrogen, filtered (µg/L as N)	Ammonia, filtered (µg/L as N)	Nitrate + nitrite, filtered (µg/L as N)	Phosphorus, filtered (µg/L as P)	Orthophosphate, filtered (µg/L as P)
MW201B	03-06-06	1315	520	81	6	430	28	22
	05-10-06	1020	2,300	<35	2	2,200	29	17
MW202	11-07-05	1719	270	240	7	19	30	13
	12-07-05	1520	300	200	3	97	80	73
	02-16-06	1200	570	130	2	440	20	15
	03-06-06	1331	520	190	5	330	9	8
	04-18-06	1815	800	150	13	620	14	6
	05-10-06	1130	500	120	2	370	19	12
	12-14-06	1211	1,300	320	22	960	49	13
	02-01-07	1310	540	230	38	280	20	18
	03-01-07	1507	370	220	14	140	30	29
	04-09-07	1243	440	170	5	260	17	15
	05-07-07	1430	7,700	36	10	7,700	13	5

Table A3. Concentrations of selected species of nitrogen and phosphorus in samples of lake and interstitial water, South Lake Tahoe, California, water year 2007.

[Site locations and numbers are shown in figure 3. The term "water year" means a 12-month period beginning October 1 and ending September 30. Abbreviations: µS/cm, microsiemens per centimeter at 25 degrees Celsius; °C, degrees Celsius, --, no data; µg/L, micrograms per liter; N, nitrogen; P, phosphorus; E, estimated to be present at a concentration less than laboratory reporting limit; <, less than laboratory reporting limit.]

Site No.	Date	Nitrogen, filtered (µg/L as N)	Organic nitrogen, filtered (µg/L as N)	Ammonia, filtered (µg/L as N)	Nitrate + nitrite, filtered (µg/L as N)	Nitrite, filtered (µg/L as N)	Phosphorus, filtered (µg/L as P)	Phosphorus, hydrolyzable filtered (µg/L as P)	Orthophosphate, filtered (µg/L as P)
L1A	07-26-07	E43	<60	<20	<16	<2	<6	<6	E5
L1B	07-26-07	E35	<60	<20	<16	<2	<6	<6	E5
L1C	07-26-07	143	118	E15	E10	<2	36	E5	31
L2A	08-02-07	E39	<60	<20	<16	<2	<6	<6	E4
L2B	08-02-07	E35	<60	<20	<16	<2	<6	<6	E5
L3A	08-02-07	E39	<60	<20	<16	<2	<6	<6	E4
L3B	08-02-07	71	<60	<20	<16	<2	<6	<6	E5
L3C	08-02-07	720	250	470	<16	3.3	40	11	29
L4B	08-02-07	E39	<60	<20	<16	<2	<6	<6	E5
L5B	08-02-07	E34	<60	<20	<16	<2	<6	<6	E5

Table A4.—Field measurements of physical properties and chemical constituents in ground-water samples from observation wells near Park Avenue stormwater collection and detention system, South Lake Tahoe, California, water year 2006.

[Site locations and numbers are shown in figure 3. The term "water year" means a 12-month period beginning October 1 and ending September 30. Abbreviations: µS/cm, microsiemens per square centimeter at 25 degrees Celsius; °C, degrees Celsius; mg/L, milligrams per liter; --, no data available]

Site No.	Date	Time	Water level (feet below land surface)	pH (standard units)	Specific conductance (µS/cm)	Dissolved oxygen		Water temperature (°C)	Bicarbonate, filtered (mg/L as HCO_3)	Alkalinity, filtered (mg/L as $CaCO_3$)
						(mg/L)	(percent)			
MW194	02-13-06	1230	14.40	5.77	219	--	--	11	89	73
	05-10-06	1245	14.04	6.53	213	4.2	49	11.6	--	--
MW196	02-14-06	1200	10.87	6.73	487	7.3	80	9	115	94
	05-09-06	1230	10.06	6.29	470	2.8	31	9.7	--	--
MW197	02-14-06	1320	5.66	6.63	572	6.4	73	11	117	96
	05-09-06	1100	4.32	6.15	625	4.3	49	10.8	--	--
MW198A	02-16-06	1400	9.52	6.96	460	8.6	93	9	118	97
	05-09-06	945	9.28	6.18	498	1.6	18	11.1	--	--
MW198B	02-16-06	1300	10.14	6.35	441	3.0	34	10	86	71
	05-09-06	1030	9.32	6.12	466	0.4	4	9.4	--	--
MW199A	02-14-06	1000	9.85	6.51	616	0.2	3	7	145	119
	05-09-06	1400	9.59	7.1	562	2.1	23	9.1	--	--
MW199B	02-14-06	1100	10.57	6.71	376	0.4	5	10	128	105
	05-09-06	1330	9.75	6.62	444	1.7	18	9.6	--	--
MW200	02-14-06	1400	7.32	7.05	512	3.2	31	5	--	--
	05-10-06	1345	6.10	6.39	417	4.4	50	10.5	--	--
MW201A	02-16-06	1015	9.35	5.8	155	5.2	50	4	--	--
	05-10-06	945	9.09	5.98	168	5.0	50	6.1	--	--
MW201B	02-16-06	1100	9.03	6.18	185	3.3	34	7	--	--

Table A4.—Field measurements of physical properties and chemical constituents in ground-water samples from observation wells near Park Avenue stormwater collection and detention system, South Lake Tahoe, California, water year 2006—Continued.

Site No.	Date	Time	Water level (feet below land surface)	pH (standard units)	Specific conductance (µS/cm)	Dissolved oxygen		Water temperature (°C)	Bicarbonate, filtered (mg/L as HCO_3)	Alkalinity, filtered (mg/L as $CaCO_3$)
						(mg/L)	(percent)			
MW202	05-10-06	1020	8.70	5.87	302	0.9	9	8.1	--	--

Table A5.—Concentrations of filtered major chemical constituents in ground-water samples from observation wells near Park Avenue stormwater collection and detention system, South Lake Tahoe, California, water year 2006.

[Site locations and numbers are shown in figure 3. The term "water year" means a 12-month period beginning October 1 and ending September 30. Abbreviations: °C, degrees Celsius; mg/L, milligrams per liter; SiO_2, silica oxide; <, less than]

Site No.	Date	Calcium, filtered (mg/L)	Magnesium, filtered (mg/L)	Sodium, filtered (mg/L)	Potassium, filtered (mg/L)	Sulfate, filtered (mg/L)	Chloride, filtered (mg/L)	Fluoride, filtered (mg/L)	Silica, filtered (mg/L as SiO_2)	Solids, dissolved, residue at 180° C (mg/L)
MW194	02-13-06	16.5	5.34	15.2	3.24	7.4	4.96	<0.1	37.2	152
MW196	02-14-06	46.7	13.6	45.2	5.4	37.3	92.9	<0.1	31.0	350
MW197	02-14-06	56.4	17	43.2	6.41	54	108	<0.1	29.1	390
MW198A	02-16-06	48.9	8.24	38.8	3.79	10	90.8	<0.1	25.6	294
MW198B	02-16-06	25.3	6.4	53.9	5.79	9.6	86.4	<0.1	26.1	265
MW199A	02-14-06	49.6	7.54	70.2	3.56	1.6	131	<0.1	22.7	386
MW199B	02-14-06	18.3	3.27	59.5	4.91	5.6	57.4	<0.1	20.7	233

Table A6.—Concentrations of filtered trace-element constituents and stable isotopes of water in ground-water samples from observation wells near Park Avenue stormwater collection and detention system, South Lake Tahoe, California, water year 2006.

[Site locations and numbers are shown in figure 3. The term "water year" means a 12-month period beginning October 1 and ending September 30. Abbreviations: µg/L, micrograms per liter; <, less than; E, estimated value less than laboratory reporting limit; --, no data.]

Site No.	Date	Iron (µg/L)	Copper (µg/L)	Chromium (µg/L)	Lead (µg/L)	Nickel (µg/L)	Zinc (µg/L)	Deuterium/ Hydrogen (ratio, in per mil)	^{18}Oxygen/ ^{16}Oxygen (ratio, in per mil)
MW194	02-13-06	16,000	<2	<2	0.08	2	15	-109.4	-14.84
MW196	02-14-06	21	<2	<2	<0.08	3	7	-97.63	-12.7
MW197	02-14-06	2,500	<2	<2	<0.08	3	7	-98.77	-13.07
MW198A	02-16-06	33	<2	<2	<0.08	3	<6	-103.06	-13.82
MW198B	02-16-06	7	<2	<2	<0.08	4	<6	-103.92	-13.87
MW199A	02-14-06	9,100	<2	<2	<0.08	4	<6	-106.72	-14.34
MW199B	02-14-06	<6	E2	E1	<0.08	E1	E5	-101.43	-13.38
MW200	02-14-06	--	--	--	--	--	--	-110.05	-14.68
MW201A	02-16-06	--	--	--	--	--	--	-110.39	-15.05
MW201B	02-16-06	--	--	--	--	--	--	-97.81	-13.33
MW202	02-16-06	--	--	--	--	--	--	-104.68	-14.25

Table A7. —Field measurements of physical properties and chemical constituents, ratios of stable isotopes of hydrogen and oxygen and concentrations of nitrogen and phosphorus in samples of lake and interstitial water, South Lake Tahoe, California, water year 2007.

[Site locations and numbers are shown in figure 3. The term "water year" means a 12-month period beginning October 1 and ending September 30. Abbreviations: µS/cm, microsiemens per centimeter at 25 degrees Celsius; mg/L, milligrams per liter; °C, degrees Celsius, --, no data.]

Site No.	Date	Time	pH (standard units)	Specific conductance (µS/cm)	Dissolved oxygen		Water temperature (°C)	Deuterium/ Hydrogen (ratio, in permil)	^{18}Oxygen/ ^{16}Oxygen (ratio, in permil)
					(mg/L)	(percent)			
L1A	07-26-07	1300	6.8	92	8.8	122	20.5	-54.96	-5.17
L1B	07-26-07	1315	6.9	91	8.8	121	20.5	-54.61	-5.11
L1C	07-26-07	1330	5.7	164	--	--	--	-80.78	-9.76
L2A	08-02-07	1025	7.9	95	8.1	111	21.5	-54.97	-5.09
L2B	08-02-07	1040	8.0	95	9.6	133	21.0	-55.22	-5.09
L3A	08-02-07	1130	7.8	95	8.1	112	22.0	-54.40	-5.06
L3B	08-02-07	1150	8.0	95	8.6	118	21.5	-55.56	-5.26
L3C	08-02-07	1200	6.3	262	--	--	--	-102.54	-13.85
L4B	08-02-07	1215	8.0	94	8.4	115	22.5	-59.02	-5.58
L5B	08-02-07	1305	7.9	94	7.9	110	22.5	-55.32	-5.12