182 6-15

SURFACE WATER MONITORING - DECEMBER, 1999

DATE OF FIRST SAMPLE 1 December 1999

DATE OF SECOND SAMPLE 15 December 1999

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.01	0.13	0.01	0.02	0.01	0.01
NITRATE - Second Sample, mg/L	<0.01	0.17	0.01	0.05	0.02	
TOTAL KJELDAHL NITROGEN, mg/L	<0.1	0.1	0.1	0.1	0.1	0.2
TOTAL PHOSPHORUS, mg/L	0.04	0.04	0.02	0.02	0.02	0.13
ORTHO PHOSPHORUS, mg/L	0.02	0.02	0.01	0.01	0.01	
TOTAL COLIFORM, MPN	80	140	130	80	50	A
FECAL COLIFORM, MPN	2	<2	4	<2	4	A
TOTAL IRON, mg/L	0.30	0.24	0.06	0.08	0.12	
DISSOLVED OXYGEN, mg/L	10.3	11.3	10.9	11.5	11.1	
pH	8.1	7.9	7.9	7.9	8.0	7.8
ALKALINITY, mg/L	70	70	44	48	44	188
TEMPERATURE, Degrees C First Sample	4	3	3	3	4	
TEMPERATURE, Degrees C Second Sample	6	5	2	3	3	
DISSOLVED ORGANIC CARBON, mg/L	1.7	1.5	0.7	0.7	1.1	1.5
CHLORIDE, mg/L	3.9	6.8	3.9	6.3	4.3	100
TOTAL DISSOLVED SOLIDS, mg/L	89	100	58	72	61	396
TURBIDITY, NTU	3.2	2.9	1.5	1.7	1.8	
UN-IONIZED AMMONIA, mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	
TRIHALOMETHANES, ppb		ND		ND	ND	
BORON, mg/L (not to exceed 1.0)					<0.05	
SULFATE, mg/L (not to exceed 5)		2.7		4.2	3.3	

Represents a Monthly Sample
and
Represents a Quarterly Sample

SURFACE WATER MONITORING - NOVEMBER, 1999

DATE OF FIRST SAMPLE 2 November 1999

DATE OF SECOND SAMPLE 15 November 1999

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.02	0.12	0.01	0.01	0.01	0.01
NITRATE - Second Sample, mg/L	0.01	0.11	0.01	0.01	<0.01	
TOTAL KJELDAHL NITROGEN, mg/L	0.1	0.2	0.2	0.2	0.1	0.3
TOTAL PHOSPHORUS, mg/L	0.02	0.03	0.02	0.03	0.02	0.04
ORTHO PHOSPHORUS, mg/L	0.01	0.02	0.01	0.01	0.01	
TOTAL COLIFORM, MPN	17	14	27	27	17	A
FECAL COLIFORM, MPN	<2	2	2	<2	4	A
TOTAL IRON, mg/L	0.04	0.01	0.08	0.23	0.03	
DISSOLVED OXYGEN, mg/L	9.4	10.0	9.6	9.5	9.2	
pH	8.0	8.7	7.9	8.8	8.0	7.6
ALKALINITY, mg/L	52	72	44	74	44	192
TEMPERATURE, Degrees C First Sample	9	9	9	9	9	
TEMPERATURE, Degrees C Second Sample	9	10	12	12	12	
DISSOLVED ORGANIC CARBON, mg/L	1.0	1.5	0.8	1.4	1.3	1.6
CHLORIDE, mg/L	6.9	6.9	3.4	1.5	3.4	99
TOTAL DISSOLVED SOLIDS, mg/L	67	98	60	87	58	388
TURBIDITY, NTU	0.9	1.8	0.9	2.5	2.0	
UN-IONIZED AMMONIA, mg/L						
TRIHALOMETHANES, ppb						
BORON, mg/L (not to exceed 1.0)						
SULFATE, mg/L (not to exceed 5)						

Represents a Monthly Sample
and
Represents a Quarterly Sample

SURFACE WATER MONITORING - OCTOBER, 1999

DATE OF FIRST SAMPLE 4 October 1999

DATE OF SECOND SAMPLE 20 October 1999

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.02	0.13	<0.01	0.02	<0.01	0.01
NITRATE - Second Sample, mg/L	0.05	0.11	<0.01	0.01	<0.01	
TOTAL KJELDAHL NITROGEN, mg/L	<0.1	0.1	0.3	0.1	0.2	0.2
TOTAL PHOSPHORUS, mg/L	0.04	0.03	0.09	0.02	0.02	0.05
ORTHO PHOSPHORUS, mg/L	0.02	0.02	0.01	0.01	0.01	
TOTAL COLIFORM, MPN	14	17	130	130	140	A
FECAL COLIFORM, MPN	<2	2	13	<2	12	A
TOTAL IRON, mg/L	0.24	0.20	0.06	0.06	0.17	
DISSOLVED OXYGEN, mg/L	8.5	9.0	9.3	9.1	9.5	
pH	9.2	8.1	7.9	7.9	8.0	7.6
ALKALINITY, mg/L	68	74	38	46	40	182
TEMPERATURE, Degrees C First Sample	13	13	11	11	12	
TEMPERATURE, Degrees C Second Sample	11	11	11	11	12	
DISSOLVED ORGANIC CARBON, mg/L	1.5	1.4	1.0	1.0	1.3	1.6
CHLORIDE, mg/L	0.5	6.8	4.9	7.3	2.9	91
TOTAL DISSOLVED SOLIDS, mg/L	84	106	54	72	55	370
TURBIDITY, NTU	2.5	1.8	0.9	0.9	1.6	
UN-IONIZED AMMONIA, mg/L						
TRIHALOMETHANES, ppb						
BORON, mg/L (not to exceed 1.0)						
SULFATE, mg/L (not to exceed 5)						

Represents a Monthly Sample
and
Represents a Quarterly Sample

SURFACE WATER MONITORING - SEPTEMBER, 1999

DATE OF FIRST SAMPLE 1 September 1999

DATE OF SECOND SAMPLE 13 September 1999

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.08	0.22	0.01	0.01	0.01	0.01
NITRATE - Second Sample, mg/L	0.07	0.19	0.01	0.02	0.01	
TOTAL KJELDAHL NITROGEN, mg/L	0.2	0.3	0.2	0.3	0.3	0.2
TOTAL PHOSPHORUS, mg/L	0.04	0.04	0.01	0.02	0.03	0.05
ORTHO PHOSPHORUS, mg/L	0.02	0.02	0.01	0.01	0.01	
TOTAL COLIFORM, MPN	7	9	500	300	130	A
FECAL COLIFORM, MPN	<2	4	12	240	50	A
TOTAL IRON, mg/L	0.25	0.22	0.06	0.05	0.31	
DISSOLVED OXYGEN, mg/L	8.0	8.5	7.4	9.1	9.0	
pH	9.4	9.2	8.2	8.1	8.1	7.8
ALKALINITY, mg/L	64	68	46	54	48	176
TEMPERATURE, Degrees C First Sample	16	17	16	13	13	
TEMPERATURE, Degrees C Second Sample	16	13	15	15	15	
DISSOLVED ORGANIC CARBON, mg/L	1.8	1.9	0.7	0.9	1.0	1.4
CHLORIDE, mg/L	2.0	8.8	3.9	5.9	3.9	90.2
TOTAL DISSOLVED SOLIDS, mg/L	78	94	46	58	47	346
TURBIDITY, NTU	3.0	2.5	0.7	0.9	1.8	
UN-IONIZED AMMONIA, mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	
TRIHALOMETHANES, ppb		ND		ND	ND	
BORON, mg/L (not to exceed 1.0)					0.6	
SULFATE, mg/L (not to exceed 5)		3.2		2.8	2.4	

Represents a Monthly Sample
and
Represents a Quarterly Sample

Tahoe Truckee Sanitation Agency

Benthic Invertebrates

	Sampling Location				
September 22, 1999	M-1	M-2	T-1	T-2	T-3
Date 1997	9-20-99	9-20-99	9-20-99	9-20-99	9-20-99
Temperature Centigrade	17	18	18	18	16
Sampling Device	Surber	Surber	Surber	Surber	Surber

Below is the number of individuals found per sampling device, which is noted, in the lower row above. The Surber Sampler represents 929 cm2 while the Hester Dendy sampler represents 1238 cm2.

Insecta					
Coleoptera (beetles)	5	4	1		
Diptera (true flies)	16	5		4	5
Ephemoptera (mayflies)	2	13	3	16	10
Plecoptera (stoneflies)		2	1	2	2
Tricoptera (caddisflies)	35	42	11	16	10
Mollusca	2				
Crustacea	4				
Platyhelminthes	16				
Annelida (Oligochaeta)	5			2	
Arachnoidia	1				
Total	86	66	16	40	27
Diversity	5.43	2.94	2.50	3.54	3.46

Notes: It is interesting to note the difference between the stream bottom conditions of Martis Creek and the Truckee River. Both locations on Martis Creek have a large amount of algae growing on the bottom while the Truckee River is quite free of attached algae at this sampling and most of the times observed.

Periphyton

Tahoe Truckee Sanitation Agency

Year September 23, 1999	M- 1	M-2	T-1	T-2	T-3
Date In/Out	9/9-9/23	9/9-9/23	9/9-9/23	9/9-9/23	9/9-9/23
Days of Exposure	14	14	14	14	14
Temperature In/Out C	17/16	18/15	18/16	18/16	18/16

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2	1.39	0.37	0.31	1.	0.35
Grams ash free dry wt/m2	1.05	0.14	0.09		0.08
Percent volatile	75.5%	37.8%	4.09%		20.5%

Relative Percentages

CHLOROPHYTA **(Green algae)**	55				5
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE **(Diatoms)**	45 reduced by	100	100		95
CYANOPHYTA **(Blue green algae)**	half since last quarter				

Notes:

1. The sampler at T-2 had been removed from the river.

2. There was considerable algae that had covered both the samplers at locations M-1 and M-2.

Periphyton

Tahoe Truckee Sanitation Agency

Year September 9, 1999	M- 1	M-2	T-1	T-2	T-3
Date In/Out	8-26/9-9	8-26/9-9	8-26/9-9	8-26/9-9	8-26/9-9
Days of Exposure	14	14	14	14	14
Temperature In/Out C	20/17	19/18	19/18	19/18	19/18

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2	0.83	2.26	2.14	8.68	3.77
Grams ash free dry wt/m2	0.58	0.92	0.82	1.91	0.99
Percent volatile	69.9%	40.7%	38.3%	22.0%	26.2%

Relative Percentages

CHLOROPHYTA **(Green algae)**	10	50	20	20	10
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE **(Diatoms)**	90	50	80	80	90
CYANOPHYTA **(Blue green algae)**					

Notes:

1. A large amount of floating algae had covered the samper at location M-1.

SURFACE WATER MONITORING - AUGUST, 1999

DATE OF FIRST SAMPLE 2 August 1999

DATE OF SECOND SAMPLE 16 August 1999

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.11	0.21	0.01	0.03	0.02	0.01
NITRATE - Second Sample, mg/L	0.08	0.15	0.01	0.02	0.01	
TOTAL KJELDAHL NITROGEN, mg/L	0.2	0.3	0.3	0.3	0.2	0.4
TOTAL PHOSPHORUS, mg/L	0.03	0.04	0.02	0.02	0.02	0.11
ORTHO PHOSPHORUS, mg/L	0.02	0.02	0.01	0.01	0.01	
TOTAL COLIFORM, MPN	27	240	2	27	14	A
FECAL COLIFORM, MPN	2	2	<2	8	4	A
TOTAL IRON, mg/L	0.25	0.23	0.10	0.10	0.14	
DISSOLVED OXYGEN, mg/L	8.2	8.0	8.4	7.6	8.1	
pH	9.2	8.4	7.9	8.1	8.0	7.7
ALKALINITY, mg/L	60	72	58	50	42	180
TEMPERATURE, Degrees C First Sample	18	15	18	18	16	
TEMPERATURE, Degrees C Second Sample	19	21	20	19	19	
DISSOLVED ORGANIC CARBON, mg/L	1.9	1.5	0.6	0.7	1.0	1.3
CHLORIDE, mg/L	2.4	8.3	2.9	5.9	3.9	89
TOTAL DISSOLVED SOLIDS, mg/L	96	114	62	69	61	370
TURBIDITY, NTU	2.7	2.5	0.8	0.9	1.4	
UN-IONIZED AMMONIA, mg/L						
TRIHALOMETHANES, ppb						
BORON, mg/L (not to exceed 1.0)						
SULFATE, mg/L (not to exceed 5)						

Represents a Monthly Sample
and
Represents a Quarterly Sample

Tahoe Truckee Sanitation Agency

Benthic Invertebrates

August 16, 1998	Sampling Location M-1	M-2	T-1	T-2	T-3
Date 1997	8/16/99	8/16/99	8/16/99	8/16/99	8/16/99
Temperature Centigrade	19	21	20	19	19
Sampling Device	Surber	Surber	Surber	Surber	Surber

Below is the number of individuals found per sampling device, which is noted, in the lower row above. The Surber Sampler represents 929 cm2 while the Hester Dendy sampler represents 1238 cm2.

Insecta					
Coleoptera (beetles)		2			
Diptera (true flies)	12	27	4	4	2
Ephemoptera (mayflies)	10	3	9	3	7
Plecoptera (stoneflies)		3	1	6	1
Tricoptera (caddisflies)	72	7	4	21	16
Mollusca					
Crustacea	1				
Platyhelminthes	3				
Annelida (Oligochaeta)	3	1		1	2
Arachnoidia					
Total	101	43	18	35	28
Diversity	2.66	3.28	3.24	3.22	3.20

Notes: 1. There was a tremendous amount of algae at locations M-1 and M-2 which made location and separation of the benthicinvertebrates difficult

2. It is interesting to note the difference in the bottom (much less algae) in the Truckee river as opposed to Martis creek.

Periphyton

Tahoe Truckee Sanitation Agency

Year August 1999	M- 1	M-2	T-1	T-2	T-3
Date In/Out	7-22/8-11	7-22/8-11	7-22/8-11	7-22/8-11	7-22/8-11
Days of Exposure	19	19	19	19	19
Temperature In/Out C	18/17	18/17	18/17	18/17	18/17

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2	3.77	1.64	0.48	3.02	1.
Grams ash free dry wt/m2	2.91	0.79	0.31	1.02	
Percent volatile	77.2%	48.2%	64.6%	33.8%	

Relative Percentages

CHLOROPHYTA **(Green algae)**	40	50	10		
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE **(Diatoms)**	60	50	90	100	
CYANOPHYTA **(Blue green algae)**					

Notes: 1. The sampler at location T-3 was missing.

2. The samplers at locations M-1 and M-2 were covered with floating and drifting macrophyton, obscuring the sampler from the sun.
3. The substrate on sampler M-2 had many grazing diptera larvae attached to it.

Periphyton

Tahoe Truckee Sanitation Agency

Year August 26, 1999	M- 1	M-2	T-1	T-2	T-3
Date In/Out	8/11-8/26	8/11-8/26	8/11-8/26	8/11-8/26	8/11-8/26
Days of Exposure	15	15	15	15	15
Temperature In/Out C	17/20	17/19	16/19	17/19	17/19

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2	1.18	1.00	0.58	3.70	1.
Grams ash free dry wt/m2	0.44	0.39	0.22	1.03	
Percent volatile	37.3%	39.0%	37.9%	27.8%	

Relative Percentages

CHLOROPHYTA **(Green algae)**		90	20	80	
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE **(Diatoms)**	100	10	80	20	
CYANOPHYTA **(Blue green algae)**					

Notes:

1. The sampler at location T-3 was missing.
2. Floating and drifting algae covered both samplers at locations M-1 and M-2. The stream bottom at these locations was densely populated with algae.
3. There was a reverse relationship of green algae vs. diatoms at locations T-1 and T-2.

SURFACE WATER MONITORING - JULY, 1999

DATE OF FIRST SAMPLE 6 July 1999

DATE OF SECOND SAMPLE 15 July 1999

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.04	0.15	0.01	0.01	<0.01	0.02
NITRATE - Second Sample, mg/L	0.11	0.16	0.01	0.03	<0.01	
TOTAL KJELDAHL NITROGEN, mg/L	0.2	0.2	0.3	0.2	0.3	0.3
TOTAL PHOSPHORUS, mg/L	0.04	0.04	0.02	0.02	0.03	0.14
ORTHO PHOSPHORUS, mg/L	0.02	0.02	0.02	0.01	0.01	
TOTAL COLIFORM, MPN	14	8	8	7	13	A
FECAL COLIFORM, MPN	4	4	<2	<2	<2	A
TOTAL IRON, mg/L	0.35	0.32	0.18	0.15	0.22	
DISSOLVED OXYGEN, mg/L	7.6	8.9	9.2	9.2	9.4	
pH	8.3	8.2	8.0	8.0	7.9	7.7
ALKALINITY, mg/L	58	60	34	38	30	184
TEMPERATURE, Degrees C First Sample	18	18	13	14	14	
TEMPERATURE, Degrees C Second Sample	21	18	17	18	17	
DISSOLVED ORGANIC CARBON, mg/L	1.9	1.7	0.9	0.9	1.2	1.3
CHLORIDE, mg/L	0.5	5.5	2.5	3.5	2.5	88
TOTAL DISSOLVED SOLIDS, mg/L	83	99	49	54	51	356
TURBIDITY, NTU	3.4	2.9	1.1	1.1	1.6	
UN-IONIZED AMMONIA, mg/L						
TRIHALOMETHANES, ppb						
BORON, mg/L (not to exceed 1.0)						
SULFATE, mg/L (not to exceed 5)						

Represents a Monthly Sample
and
Represents a Quarterly Sample

Tahoe Truckee Sanitation Agency

Benthic Invertebrates

	Sampling Location				
	M-1	M-2	T-1	T-2	T-3
Date July 1999	7/99	7/99	7/99	7/99	7/99
Temperature Centigrade	18	21	17	18	17
Sampling Device	Surber	Surber	Surber	Surber	Surber

Below is the number of individuals found per sampling device which is noted in the lower row above. The Surber Sampler represents 929 cm2 while the Hester Dendy sampler represents 1238 cm2.

Insecta					
Coleoptera (beetles)					
Diptera (true flies)	4	9	6	7	6
Ephemoptera (mayflies)	34	29	18	16	12
Plecoptera (stoneflies)			2		
Tricoptera (caddisflies)	3		5	1	7
Mollusca					
Crustacea					
Platyhelminthes	5			1	
Annelida (Oligochaeta)	1			1	2
Arachnoidia			1		
Total	47	38	32	26	27
Diversity	2.56	1.73	3.35	2.80	3.45

Notes:

1. The flows in the river are significantly reduced since the last sampling.

Periphyton

Tahoe Truckee Sanitation Agency

Year July 1999	M- 1	M-2	T-1	T-2	T-3
Date In/Out	6-18/7-5	6-18/7-5	6-18/7-5	6-18/7-5	6-18/7-5
Days of Exposure	17	17	17	17	17
Temperature In/Out C	16/16	17/18	11/13	12/13	12/14

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2	0.16	2.41		38.61	
Grams ash free dry wt/m2	0.06	1.46		2.90	
Percent volatile	37.5%	60.6%		7.5%	

Relative Percentages

CHLOROPHYTA (Green algae)		30		15	
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE (Diatoms)	100	70		85	
CYANOPHYTA (blue green algae)					

Notes:

1. The sampler at location M-1 was covered with floating & drifting algae.
2. The samplers at locations T-1 & T-3 had been vandalized. There was no evidence of the sampler or the anchor.
3. River flows were noted to be somewhat reduced at all locations.

Periphyton

Tahoe Truckee Sanitation Agency

Year July 1999	M- 1	M-2	T-1	T-2	T-3
Date In/Out	7-5/7-22	7-5/7-22	7-5/7-22	7-5/7-22	7-5/7-22
Days of Exposure	17	17	17	17	17
Temperature In/Out C	16/18	18/20	13/17	13/16	14/17

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2	1.84	1.31	1.	13.69	38.56
Grams ash free dry wt/m2	1.07	0.74		2.46	4.88
Percent volatile	58.2%	56.5%		18.0%	12.6%

Relative Percentages

CHLOROPHYTA (Green algae)		10		5	
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE (Diatoms)	100	90		95	100
CYANOPHYTA (blue green algae)					

Notes:

1. The sampler at T-1 had been removed from the river probably by vandals.
2. River flows were considerably lower than the last sampling.

SURFACE WATER MONITORING - JUNE, 1999

DATE OF FIRST SAMPLE 1 June 1999

DATE OF SECOND SAMPLE 15 June 1999

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.01	0.03	0.01	0.01	0.01	0.01
NITRATE - Second Sample, mg/L	0.07	0.08	0.01	0.01	0.01	
TOTAL KJELDAHL NITROGEN, mg/L	0.1	0.3	0.5	0.2	0.2	0.2
TOTAL PHOSPHORUS, mg/L	0.04	0.04	0.03	0.03	0.04	0.05
ORTHO PHOSPHORUS, mg/L	0.01	0.02	0.01	0.01	0.01	
TOTAL COLIFORM, MPN	14	7	80	27	30	A
FECAL COLIFORM, MPN	4	2	4	4	2	A
TOTAL IRON, mg/L	0.33	0.40	0.33	0.35	0.40	
DISSOLVED OXYGEN, mg/L	8.4	8.4	9.8	9.6	9.4	
pH	7.9	8.0	7.9	7.7	7.8	7.8
ALKALINITY, mg/L	36	42	32	34	34	178
TEMPERATURE, Degrees C First Sample	15	15	10	11	11	
TEMPERATURE, Degrees C Second Sample	15	14	14	11	11	
DISSOLVED ORGANIC CARBON, mg/L	2.7	2.5	1.1	1.3	1.3	1.4
CHLORIDE, mg/L	2.0	1.5	3.0	3.0	2.0	85
TOTAL DISSOLVED SOLIDS, mg/L	57	64	38	43	42	351
TURBIDITY, NTU	4.0	4.1	2.5	2.7	3.9	
UN-IONIZED AMMONIA, mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	
TRIHALOMETHANES, ppb		ND		ND	ND	
BORON, mg/L (not to exceed 1.0)					<0.05	
SULFATE, mg/L (not to exceed 5)		1.0		1.9	1.6	

Represents a Monthly Sample
and
Represents a Quarterly Sample

Tahoe Truckee Sanitation Agency

Benthic Invertebrates

	Sampling Location				
	M-1	M-2	T-1	T-2	T-3
Date 1999	6/15/99	6/15/99	6/15/99	6/15/99	6/15/99
Temperature Centigrade	15	14	14	11	11
Sampling Device	Surber	Surber	Surber	Surber	Surber

Below is the number of individuals found per sampling device which is noted in the lower row above. The Surber Sampler represents 929 cm2 while the Hester Dendy sampler represents 1238 cm2.

Insecta					
Coleoptera (beetles)		2	1		
Diptera (true flies)	16	3	1		3
Ephemoptera (mayflies)	6	9	5		18
Plecoptera (stoneflies)			6		6
Tricoptera (caddisflies)	5	5	7		5
Mollusca					
Crustacea					
Platyhelminthes	3				
Annelida (Oligochaeta)	3	8	2		1
Arachnoidia					
Total	33	27	22		33
Diversity	3.99	4.37	4.73		3.49

Notes:

1. There was a large amount of algae on the bottom of the stream and in the sample collection at M-1.
2. There was no safe location to enter the river at location T-2 for sampling. For this reason the sample was deleted.
3. At all locations there was extreme spring time flows.

Periphyton
Tahoe Truckee Sanitation Agency

Year June 4, 1999	M- 1	M-2	T-1	T-2	T-3
Date In/Out	5-21/6-4	5-21/6-4	5-21/6-4	5-21/6-4	5-21/6-4
14	14	14	14	14	14
Temperature In/Out C	8/9	12/9	8/7	8/7	8/7

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2	1.	1.48	29.26	2.	0.97
Grams ash free dry wt/m2		0.66	4.45		0.07
Percent volatile		44.6%	15.2%		7.2%

Relative Percentages

CHLOROPHYTA (Green algae)			10		
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE (Diatoms)		100	90		100
CYANOPHYTA (blue green algae)					

Notes:

1. The sampler at location M-1 was found out of the water probably because of reduced flows at that location.
2. The sampler at location T-2 was not located. There were very high flows at this spot and the sampler may have been vandalized or destroyed by the extreme flows.

Periphyton
Tahoe-Truckee Sanitation Agency

Year June 18, 1999	M- 1	M-2	T-1	T-2	T-3
Date In/Out	6-4/6-18	6-4/6-18	6-4/6-18	6-4/6-18	6-4/6-18
Days of Exposure	14	14	14	14	14
Temperature In/Out C	9/16	9/17	7/11	7/12	7/12

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2	5.94	4.03	29.55	3.26	4.90
Grams ash free dry wt/m2	2.66	2.19	4.01	1.71	0.71
Percent volatile	47.9%	54.3%	13.6%	52.4%	14.5%

Relative Percentages

CHLOROPHYTA (Green algae)	2	15	2	25	25
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE (Diatoms)	98	85	98	75	75
CYANOPHYTA (blue green algae)					

Notes:
The surface water flows continue to be very high.

Laboratory Analysis Report

Sierra Environmental Monitoring, Inc.

Tahoe Truckee Sanitation Agency
Attn: Don McKechnie
13720 Joerger Dr.
Truckee, CA 96160

Date: 6/16/99
Client: TTS-001
Taken by: Client
Report: 29790
PO #: 10372

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
9906-0030	T-3	6/1/99	1:00 PM	6/1/99

Parameter	Method	Result	Units Of Measure	Detection Limit	Analyst	Date Analyzed
Total Recoverable Metals - Acid	EPA 200.2	Completed			Kleinworth	6/4/99
Boron - ICP-OES	EPA 200.7	<0.05	mg/L	0.05	Lowe	6/7/99

Sample preserved in laboratory

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
9906-0031	Final Effluent	6/1/99	1:00 PM	6/1/99

Parameter	Method	Result	Units Of Measure	Detection Limit	Analyst	Date Analyzed
Sodium - ICP-OES	EPA 200.7	92	mg/L	0.1	Lowe	6/11/99

Approved By: _____ **Date:** 6-16-99
Sierra Environmental Monitoring, Inc

1135 Financial Blvd.

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
(775) 355-1044
FAX: (775) 355-0406
1-800-283-1183

Wichita, Kansas
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FAX: (316) 722-6008

Las Vegas, Nevada
(702) 498-3312
FAX: (702) 736-7523
Sacramento, California
(916) 366-9089
FAX: (916) 366-9138

ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Don McKechnie

Total Trihalomethanes by GC/MS
EPA Method 524.2

		Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	**M-2**					
Lab ID :	TTS99060140-01A	Bromodichloromethane	ND	0.500 µg/L	6/1/99	6/1/99
		Bromoform	ND	0.500 µg/L	6/1/99	6/1/99
		Dibromochloromethane	ND	0.500 µg/L	6/1/99	6/1/99
		Chloroform	ND	0.500 µg/L	6/1/99	6/1/99
		Total Trihalomethanes	ND	0.500 µg/L	6/1/99	6/1/99
Client ID :	**T-2**					
Lab ID :	TTS99060140-02A	Bromodichloromethane	ND	0.500 µg/L	6/1/99	6/1/99
		Bromoform	ND	0.500 µg/L	6/1/99	6/1/99
		Dibromochloromethane	ND	0.500 µg/L	6/1/99	6/1/99
		Chloroform	ND	0.500 µg/L	6/1/99	6/1/99
		Total Trihalomethanes	ND	0.500 µg/L	6/1/99	6/1/99
Client ID :	**T-3**					
Lab ID :	TTS99060140-03A	Bromodichloromethane	ND	0.500 µg/L	6/1/99	6/1/99
		Bromoform	ND	0.500 µg/L	6/1/99	6/1/99
		Dibromochloromethane	ND	0.500 µg/L	6/1/99	6/1/99
		Chloroform	ND	0.500 µg/L	6/1/99	6/1/99
		Total Trihalomethanes	ND	0.500 µg/L	6/1/99	6/1/99
Client ID :	**1-Water**					
Lab ID :	TTS99060140-04A	Bromodichloromethane	ND	0.500 µg/L	6/1/99	6/1/99
		Bromoform	ND	0.500 µg/L	6/1/99	6/1/99
		Dibromochloromethane	ND	0.500 µg/L	6/1/99	6/1/99
		Chloroform	ND	0.500 µg/L	6/1/99	6/1/99
		Total Trihalomethanes	ND	0.500 µg/L	6/1/99	6/1/99
Client ID :	**Final Effluent**					
Lab ID :	TTS99060140-05A	Bromodichloromethane	3.16	0.500 µg/L	6/1/99	6/1/99
		Bromoform	ND	0.500 µg/L	6/1/99	6/1/99
		Dibromochloromethane	ND	0.500 µg/L	6/1/99	6/1/99
		Chloroform	14.2	0.500 µg/L	6/1/99	6/1/99
		Total Trihalomethanes	17.4	0.500 µg/L	6/1/99	6/1/99
Client ID :	**Well 20**					
Lab ID :	TTS99060140-06A	Bromodichloromethane	ND	0.500 µg/L	6/1/99	6/1/99
		Bromoform	ND	0.500 µg/L	6/1/99	6/1/99
		Dibromochloromethane	ND	0.500 µg/L	6/1/99	6/1/99
		Chloroform	ND	0.500 µg/L	6/1/99	6/1/99
		Total Trihalomethanes	ND	0.500 µg/L	6/1/99	6/1/99

Alpha Analytical, Inc.

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(916) 366-9089
FAX: (916) 366-9138

Client ID :	**Well Toups**					
Lab ID :	TTS99060140-07A	Bromodichloromethane	ND	0.500 µg/L	6/1/99	6/1/99
		Bromoform	ND	0.500 µg/L	6/1/99	6/1/99
		Dibromochloromethane	ND	0.500 µg/L	6/1/99	6/1/99
		Chloroform	5.78	0.500 µg/L	6/1/99	6/1/99
		Total Trihalomethanes	5.78	0.500 µg/L	6/1/99	6/1/99
Client ID :	**Well 36**					
Lab ID :	TTS99060140-08A	Bromodichloromethane	ND	0.500 µg/L	6/1/99	6/1/99
		Bromoform	ND	0.500 µg/L	6/1/99	6/1/99
		Dibromochloromethane	ND	0.500 µg/L	6/1/99	6/1/99
		Chloroform	1.44	0.500 µg/L	6/1/99	6/1/99
		Total Trihalomethanes	1.44	0.500 µg/L	6/1/99	6/1/99
Client ID :	**Well 21**					
Lab ID :	TTS99060140-09A	Bromodichloromethane	ND	0.500 µg/L	6/1/99	6/1/99
		Bromoform	ND	0.500 µg/L	6/1/99	6/1/99
		Dibromochloromethane	ND	0.500 µg/L	6/1/99	6/1/99
		Chloroform	1.53	0.500 µg/L	6/1/99	6/1/99
		Total Trihalomethanes	1.53	0.500 µg/L	6/1/99	6/1/99
Client ID :	**Well 31**					
Lab ID :	TTS99060140-10A	Bromodichloromethane	ND	0.500 µg/L	6/1/99	6/1/99
		Bromoform	ND	0.500 µg/L	6/1/99	6/1/99
		Dibromochloromethane	ND	0.500 µg/L	6/1/99	6/1/99
		Chloroform	1.97	0.500 µg/L	6/1/99	6/1/99
		Total Trihalomethanes	1.97	0.500 µg/L	6/1/99	6/1/99

pH = 5

ND = Not Detected

Approved By: R Scholl Date: 6/11/99

Roger L. Scholl, Ph.D.
Laboratory Director

SURFACE WATER MONITORING - MAY, 1999

DATE OF FIRST SAMPLE 4 May 1999

DATE OF SECOND SAMPLE 17 May 1999

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.05	0.09	0.02	0.03	0.01	0.02
NITRATE - Second Sample, mg/L	0.01	0.04	0.02	0.01	0.01	
TOTAL KJELDAHL NITROGEN, mg/L	0.2	0.2	0.3	0.2	0.1	<0.1
TOTAL PHOSPHORUS, mg/L	0.04	0.08	0.05	0.03	0.02	0.05
ORTHO PHOSPHORUS, mg/L	0.02	0.03	0.01	0.02	0.01	
TOTAL COLIFORM, MPN	130	130	26	30	80	A
FECAL COLIFORM, MPN	4	<2	2	2	2	A
TOTAL IRON, mg/L	0.48	1.04	0.10	0.13	0.18	
DISSOLVED OXYGEN, mg/L	8.6	8.2	9.1	11.3	11.2	
pH	7.6	7.6	7.6	7.8	7.6	7.8
ALKALINITY, mg/L	36	42	40	60	60	174
TEMPERATURE, Degrees C First Sample	10	10	7	5	6	
TEMPERATURE, Degrees C Second Sample	10	11	9	10	9	
DISSOLVED ORGANIC CARBON, mg/L	2.6	2.4	1.0	1.2	1.4	1.3
CHLORIDE, mg/L	1.0	3.0	2.0	3.5	1.5	86
TOTAL DISSOLVED SOLIDS, mg/L	62	69	53	60	60	362
TURBIDITY, NTU	6.6	6.9	1.5	2.0	2.5	
UN-IONIZED AMMONIA, mg/L						
TRIHALOMETHANES, ppb						
BORON, mg/L (not to exceed 1.0)						
SULFATE, mg/L (not to exceed 5)						

Represents a Monthly Sample
and
Represents a Quarterly Sample

Periphyton
Tahoe Truckee Sanitation Agency

Year May 1999	M- 1	M-2	T-1	T-2	T-3
Date In/Out	4/23-5/7	4/23-5/7	4/23-5/7	4/23-5/7	4/23-5/7
Days of Exposure	14	14	14	14	14
Temperature In/Out C	8/9	8/10	8/7	8/8	9/8

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2	1.74	2.77	5.90	1.62	0.60
Grams ash free dry wt/m2	1.06	2.34	1.75	0.73	0.19
Percent volatile	60.9%	84.5%	29.7%	45.1%	31.7%

Relative Percentages

CHLOROPHYTA **(Green algae)**	85	95	3	10	5
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE **(Diatoms)**	15	5	97	90	95
CYANOPHYTA **(Blue green algae)**					

Notes: Both the Truckee River and Martis Creek have very high flows at this time.

Periphyton

Tahoe Truckee Sanitation Agency

Year May 25, 1999	M- 1	M-2	T-1	T-2	T-3
Date In/Out	5/7-5/21	5/7-5/21	5/7-5/21	5/7-5/21	5/7-5/21
Days of Exposure	14	14	14	14	14
Temperature In/Out C	9/8	10/12	7/8	7/8	8/9

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2	2.11	2.49	7.12	1.	1.70
Grams ash free dry wt/m2	1.34	1.43	0.40		0.52
Percent volatile	63.5%	57.4%	5.6%		30.6

Relative Percentages

CHLOROPHYTA **(Green algae)**	90	95	2		25
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE **(Diatoms)**	10	5	98		75
CYANOPHYTA **(Blue green algae)**					

Notes: 1. The sampler had been vandalized and was not located at the sample site.

Laboratory Analysis Report

Sierra Environmental Monitoring, Inc.

Tahoe Truckee Sanitation Agenc
Attn: Don McKechnie
13720 Joerger Dr.
Truckee, CA 96160

Date: 4/15/99
Client: TTS-001
Taken by: D. M.
Report: 28794
PO #: 10206

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
9904-0087	Chlorinated Final	4/1/99	7:00 AM	4/2/99

Parameter	Method	Result	Units Of Measure	Detection Limit	Analyst	Date Analyzed
Magnesium - ICP-OES	EPA 200.7	4.8	mg/L	0.1	Lowe	4/8/99
Total Recoverable Metals - Acid	EPA 200.2	Completed			Kleinworth	4/6/99
Arsenic - ICP-MS	EPA 200.8	< 0.003	mg/L	0.003	Lambert	4/8/99
Barium - ICP-MS	EPA 200.8	0.009	mg/L	0.001	Lambert	4/8/99
Boron - ICP-OES	EPA 200.7	0.13	mg/L	0.05	Lowe	4/8/99
Cadmium - ICP-MS	EPA 200.8	< 0.003	mg/L	0.003	Lambert	4/8/99
Silver - ICP-MS	EPA 200.8	< 0.003	mg/L	0.003	Lambert	4/8/99
Copper - ICP-MS	EPA 200.8	0.012	mg/L	0.001	Lambert	4/8/99
Iron - ICP-OES	EPA 200.7	<0.1	mg/L	0.1	Lowe	4/13/99
Lead - ICP-MS	EPA 200.8	< 0.003	mg/L	0.003	Lambert	4/8/99
Manganese - ICP-MS	EPA 200.8	0.027	mg/L	0.001	Lambert	4/8/99
Nickel - ICP-MS	EPA 200.8	< 0.003	mg/L	0.003	Lambert	4/8/99
Selenium - ICP-MS	EPA 200.8	< 0.003	mg/L	0.003	Lambert	4/8/99
Strontium - ICP-OES	EPA 200.7	<0.25	mg/L	0.25	Lowe	4/12/99
Chromium, Hexavalent	SM 3500 Cr D	< 0.05	mg/L	0.05	Lambert	4/8/99
Zinc - ICP-MS	EPA 200.8	0.05	mg/L	0.01	Lambert	4/8/99

Sample preserved in laboratory

Approved By: _____ **Date:** 4-15-99

Sierra Environmental Monitoring, Inc

Laboratory Analysis Report

Sierra Environmental Monitoring, Inc.

Tahoe Truckee Sanitation Agenc
Attn: Don McKechnie
13720 Joerger Dr.
Truckee, CA 96160

Date: 4/15/99
Client: TTS-001
Taken by: D. M.
Report: 28794
PO #: 10206

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
9904-0087	Chlorinated Final	4/1/99	7:00 AM	4/2/99

Parameter	Method	Result	Units Of Measure	Detection Limit	Analyst	Date Analyzed
Magnesium - ICP-OES	EPA 200.7	4.8	mg/L	0.1	Lowe	4/8/99
Total Recoverable Metals - Acid	EPA 200.2	Completed			Kleinworth	4/6/99
Arsenic - ICP-MS	EPA 200.8	< 0.003	mg/L	0.003	Lambert	4/8/99
Barium - ICP-MS	EPA 200.8	0.009	mg/L	0.001	Lambert	4/8/99
Boron - ICP-OES	EPA 200.7	0.13	mg/L	0.05	Lowe	4/8/99
Cadmium - ICP-MS	EPA 200.8	< 0.003	mg/L	0.003	Lambert	4/8/99
Silver - ICP-MS	EPA 200.8	< 0.003	mg/L	0.003	Lambert	4/8/99
Copper - ICP-MS	EPA 200.8	0.012	mg/L	0.001	Lambert	4/8/99
Iron - ICP-OES	EPA 200.7	<0.1	mg/L	0.1	Lowe	4/13/99
Lead - ICP-MS	EPA 200.8	< 0.003	mg/L	0.003	Lambert	4/8/99
Manganese - ICP-MS	EPA 200.8	0.027	mg/L	0.001	Lambert	4/8/99
Nickel - ICP-MS	EPA 200.8	< 0.003	mg/L	0.003	Lambert	4/8/99
Selenium - ICP-MS	EPA 200.8	< 0.003	mg/L	0.003	Lambert	4/8/99
Strontium - ICP-OES	EPA 200.7	<0.25	mg/L	0.25	Lowe	4/12/99
Chromium, Hexavalent	SM 3500 Cr D	< 0.05	mg/L	0.05	Lambert	4/8/99
Zinc - ICP-MS	EPA 200.8	0.05	mg/L	0.01	Lambert	4/8/99

Sample preserved in laboratory

Approved By: _____ **Date:** 4-15-99

Sierra Environmental Monitoring, Inc

Laboratory Analysis Report

Sierra Environmental Monitoring, Inc.

Tahoe Truckee Sanitation Agenc
Attn: Don McKechnie
13720 Joerger Dr.
Truckee, CA 96160

Date: 4/15/99
Client: TTS-001
Taken by: D. M.
Report: 28794
PO #: 10206

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
9904-0087	Chlorinated Final	4/1/99	7:00 AM	4/2/99

Parameter	Method	Result	Units Of Measure	Detection Limit	Analyst	Date Analyzed
Magnesium - ICP-OES	EPA 200.7	4.8	mg/L	0.1	Lowe	4/8/99
Total Recoverable Metals - Acid	EPA 200.2	Completed			Klemsworth	4/6/99
Arsenic - ICP-MS	EPA 200.8	< 0.003	mg/L	0.003	Lambert	4/8/99
Barium - ICP-MS	EPA 200.8	0.009	mg/L	0.001	Lambert	4/8/99
Boron - ICP-OES	EPA 200.7	0.13	mg/L	0.05	Lowe	4/8/99
Cadmium - ICP-MS	EPA 200.8	< 0.003	mg/L	0.003	Lambert	4/8/99
Silver - ICP-MS	EPA 200.8	< 0.003	mg/L	0.003	Lambert	4/8/99
Copper - ICP-MS	EPA 200.8	0.012	mg/L	0.001	Lambert	4/8/99
Iron - ICP-OES	EPA 200.7	<0.1	mg/L	0.1	Lowe	4/11/99
Lead - ICP-MS	EPA 200.8	< 0.003	mg/L	0.003	Lambert	4/8/99
Manganese - ICP-MS	EPA 200.8	0.027	mg/L	0.001	Lambert	4/8/99
Nickel - ICP-MS	EPA 200.8	< 0.003	mg/L	0.003	Lambert	4/8/99
Selenium - ICP-MS	EPA 200.8	< 0.003	mg/L	0.003	Lambert	4/8/99
Strontium - ICP-OES	EPA 200.7	<0.25	mg/L	0.25	Lowe	4/12/99
Chromium, Hexavalent	SM 3500 Cr D	< 0.05	mg/L	0.05	Lambert	4/8/99
Zinc - ICP-MS	EPA 200.8	0.05	mg/L	0.01	Lambert	4/8/99

Sample preserved in laboratory

Approved By: _____ **Date:** 4-15-99

Sierra Environmental Monitoring, Inc

Laboratory Analysis Report

Sierra Environmental Monitoring, Inc.

Tahoe Truckee Sanitation Agenc
Attn: Don McKechnie
13720 Joerger Dr.
Truckee, CA 96160

Date: 4/15/99
Client: TTS-001
Taken by: D. M.
Report: 28794
PO #: 10206

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
9904-0087	Chlorinated Final	4/1/99	7:00 AM	4/2/99

Parameter	Method	Result	Units Of Measure	Detection Limit	Analyst	Date Analyzed
Magnesium - ICP-OES	EPA 200.7	4.8	mg/L	0.1	Lowe	4/8/99
Total Recoverable Metals - Acid	EPA 200.2	Completed			Kleinworth	4/6/99
Arsenic - ICP-MS	EPA 200.8	< 0.003	mg/L	0.003	Lambert	4/8/99
Barium - ICP-MS	EPA 200.8	0.009	mg/L	0.001	Lambert	4/8/99
Boron - ICP-OES	EPA 200.7	0.13	mg/L	0.05	Lowe	4/8/99
Cadmium - ICP-MS	EPA 200.8	< 0.003	mg/L	0.003	Lambert	4/8/99
Silver - ICP-MS	EPA 200.8	< 0.003	mg/L	0.003	Lambert	4/8/99
Copper - ICP-MS	EPA 200.8	0.012	mg/L	0.001	Lambert	4/8/99
Iron - ICP-OES	EPA 200.7	<0.1	mg/L	0.1	Lowe	4/13/99
Lead - ICP-MS	EPA 200.8	< 0.003	mg/L	0.003	Lambert	4/8/99
Manganese - ICP-MS	EPA 200.8	0.027	mg/L	0.001	Lambert	4/8/99
Nickel - ICP-MS	EPA 200.8	< 0.003	mg/L	0.003	Lambert	4/8/99
Selenium - ICP-MS	EPA 200.8	< 0.003	mg/L	0.003	Lambert	4/8/99
Strontium - ICP-OES	EPA 200.7	<0.25	mg/L	0.25	Lowe	4/12/99
Chromium, Hexavalent	SM 3500 Cr D	< 0.05	mg/L	0.05	Lambert	4/8/99
Zinc - ICP-MS	EPA 200.8	0.05	mg/L	0.01	Lambert	4/8/99

Sample preserved in laboratory

Approved By: _____ **Date:** 4-15-99

Sierra Environmental Monitoring, Inc

Alpha Analytical, Inc.

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ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Don McKechnie

Alpha Analytical Number: TTS99040221-02A
Client I.D. Number: Well Toups

Sampled: 4/1/99
Received: 4/2/99
Analyzed: 4/8/99

Volatile Organics by GC/MS
EPA Method SW8010/8020

	Compound	Concentration µg/L	Reporting Limit		Compound	Concentration µg/L	Reporting Limit
1	Chloromethane	ND	2.0 µg/L	25	Tetrachloroethene	ND	1.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L	26	Chlorobenzene	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L	27	Ethylbenzene	ND	0.50 µg/L
4	Bromomethane	ND	1.0 µg/L	28	m,p-Xylene	ND	0.50 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L	29	Bromoform	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L	30	o-Xylene	ND	0.50 µg/L
7	Dichloromethane	ND	2.0 µg/L	31	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8	trans-1,2-Dichloroethene	ND	1.0 µg/L	32	1,3-Dichlorobenzene	ND	1.0 µg/L
9	1,1-Dichloroethane	ND	1.0 µg/L	33	1,4-Dichlorobenzene	ND	1.0 µg/L
10	cis-1,2-Dichloroethene	ND	1.0 µg/L	34	1,2-Dichlorobenzene	ND	1.0 µg/L
11	Chloroform	6.6	1.0 µg/L				
12	1,2-Dichloroethane	ND	1.0 µg/L				
13	1,1,1-Trichloroethane	ND	1.0 µg/L				
14	Carbon tetrachloride	ND	1.0 µg/L				
15	Benzene	ND	0.50 µg/L				
16	1,2-Dichloropropane	ND	1.0 µg/L				
17	Trichloroethene	ND	1.0 µg/L				
18	Bromodichloromethane	ND	1.0 µg/L				
19	2-Chloroethylvinylether	ND	1.0 µg/L				
20	cis-1,3-Dichloropropene	ND	1.0 µg/L				
21	trans-1,3-Dichloropropene	ND	1.0 µg/L				
22	1,1,2-Trichloroethane	ND	1.0 µg/L				
23	Toluene	ND	0.50 µg/L				
24	Dibromochloromethane	ND	1.0 µg/L				

ND = Not Detected

Approved By: Roger L. Scholl Date: 4/14/99

Roger L. Scholl, Ph.D.
Laboratory Director

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ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Don McKechnie

Alpha Analytical Number: TTS99040221-01A
Client I.D. Number: Well 20

Sampled: 4/1/99
Received: 4/2/99
Analyzed: 4/8/99

Volatile Organics by GC/MS
EPA Method SW8010/8020

	Compound	Concentration µg/L	Reporting Limit
1	Chloromethane	ND	2.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L
4	Bromomethane	ND	1.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L
7	Dichloromethane	ND	2.0 µg/L
8	trans-1,2-Dichloroethene	ND	1.0 µg/L
9	1,1-Dichloroethane	ND	1.0 µg/L
10	cis-1,2-Dichloroethene	ND	1.0 µg/L
11	Chloroform	ND	1.0 µg/L
12	1,2-Dichloroethane	ND	1.0 µg/L
13	1,1,1-Trichloroethane	ND	1.0 µg/L
14	Carbon tetrachloride	ND	1.0 µg/L
15	Benzene	ND	0.50 µg/L
16	1,2-Dichloropropane	ND	1.0 µg/L
17	Trichloroethene	ND	1.0 µg/L
18	Bromodichloromethane	ND	1.0 µg/L
19	2-Chloroethylvinylether	ND	1.0 µg/L
20	cis-1,3-Dichloropropene	ND	1.0 µg/L
21	trans-1,3-Dichloropropene	ND	1.0 µg/L
22	1,1,2-Trichloroethane	ND	1.0 µg/L
23	Toluene	ND	0.50 µg/L
24	Dibromochloromethane	ND	1.0 µg/L
25	Tetrachloroethene	ND	1.0 µg/L
26	Chlorobenzene	ND	1.0 µg/L
27	Ethylbenzene	ND	0.50 µg/L
28	m,p-Xylene	ND	0.50 µg/L
29	Bromoform	ND	1.0 µg/L
30	o-Xylene	ND	0.50 µg/L
31	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
32	1,3-Dichlorobenzene	ND	1.0 µg/L
33	1,4-Dichlorobenzene	ND	1.0 µg/L
34	1,2-Dichlorobenzene	ND	1.0 µg/L

ND = Not Detected

Approved By: Roger Schell Date: 4/14/99

Roger L. Schell, Ph.D.
Laboratory Director

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ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Don McKechnie

Alpha Analytical Number: TTS99040221-03A
Client I.D. Number: Well 24

Sampled: 4/1/99
Received: 4/2/99
Analyzed: 4/8/99

Volatile Organics by GC/MS
EPA Method SW8010/8020

	Compound	Concentration µg/L	Reporting Limit		Compound	Concentration µg/L	Reporting Limit
1	Chloromethane	ND	2.0 µg/L	25	Tetrachloroethene	ND	1.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L	26	Chlorobenzene	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L	27	Ethylbenzene	ND	0.50 µg/L
4	Bromomethane	ND	1.0 µg/L	28	m,p-Xylene	ND	0.50 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L	29	Bromoform	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L	30	o-Xylene	ND	0.50 µg/L
7	Dichloromethane	ND	2.0 µg/L	31	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8	trans-1,2-Dichloroethene	ND	1.0 µg/L	32	1,3-Dichlorobenzene	ND	1.0 µg/L
9	1,1-Dichloroethane	ND	1.0 µg/L	33	1,4-Dichlorobenzene	ND	1.0 µg/L
10	cis-1,2-Dichloroethene	ND	1.0 µg/L	34	1,2-Dichlorobenzene	ND	1.0 µg/L
11	Chloroform	ND	1.0 µg/L				
12	1,2-Dichloroethane	ND	1.0 µg/L				
13	1,1,1-Trichloroethane	ND	1.0 µg/L				
14	Carbon tetrachloride	ND	1.0 µg/L				
15	Benzene	ND	0.50 µg/L				
16	1,2-Dichloropropane	ND	1.0 µg/L				
17	Trichloroethene	ND	1.0 µg/L				
18	Bromodichloromethane	ND	1.0 µg/L				
19	2-Chloroethylvinylether	ND	1.0 µg/L				
20	cis-1,3-Dichloropropene	ND	1.0 µg/L				
21	trans-1,3-Dichloropropene	ND	1.0 µg/L				
22	1,1,2-Trichloroethane	ND	1.0 µg/L				
23	Toluene	ND	0.50 µg/L				
24	Dibromochloromethane	ND	1.0 µg/L				

ND = Not Detected

Approved By: Roger Scholl Date: 4/14/99

Roger L. Scholl, Ph.D.
Laboratory Director

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ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Don McKechnie

Alpha Analytical Number: TTS99040221-06A
Client I.D. Number: Well 22

Sampled: 4/1/99
Received: 4/2/99
Analyzed: 4/8/99

Total Trihalomethanes by EPA Method
SW8260

	Compound	Concentration µg/L	Reporting Limit
1	Chloroform	1.9	1.0 µg/L
2	Bromodichloromethane	ND	1.0 µg/L
3	Dibromochloromethane	ND	1.0 µg/L
4	Bromoform	ND	1.0 µg/L
5	Total Trihalomethanes	1.9	1.0 µg/L

ND = Not Detected

Approved By: Roger Scholl Date: 4/14/99

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ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Don McKechnie

Alpha Analytical Number: TTS99040221-04A
Client I.D. Number: Well 1

Sampled: 4/1/99
Received: 4/2/99
Analyzed: 4/8/99

Total Trihalomethanes by EPA Method
SW8260

	Compound	Concentration µg/L	Reporting Limit
1	Chloroform	4.6	1.0 µg/L
2	Bromodichloromethane	ND	1.0 µg/L
3	Dibromochloromethane	ND	1.0 µg/L
4	Bromoform	ND	1.0 µg/L
5	Total Trihalomethanes	4.6	1.0 µg/L

ND = Not Detected

Approved By: Roger Scholl Date: 4/14/99

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ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Don McKechnie

Alpha Analytical Number: TTS99040221-05A
Client I.D. Number: Well 23

Sampled: 4/1/99
Received: 4/2/99
Analyzed: 4/8/99

Total Trihalomethanes by EPA Method
SW8260

	Compound	Concentration µg/L	Reporting Limit
1	Chloroform	1.0	1.0 µg/L
2	Bromodichloromethane	ND	1.0 µg/L
3	Dibromochloromethane	ND	1.0 µg/L
4	Bromoform	ND	1.0 µg/L
5	Total Trihalomethanes	1.0	1.0 µg/L

ND = Not Detected

Approved By: Roger Schell Date: 4/14/99

Roger L. Scholl, Ph.D.
Laboratory Director

SURFACE WATER MONITORING - APRIL, 1999

DATE OF FIRST SAMPLE 1 April 1999

DATE OF SECOND SAMPLE 15 April 1999

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.04	0.13	0.01	0.04	<0.01	0.01
NITRATE - Second Sample, mg/L	0.04	0.10	<0.01	0.02	<0.01	
TOTAL KJELDAHL NITROGEN, mg/L	0.3	0.4	0.4	0.3	0.3	0.3
TOTAL PHOSPHORUS, mg/L	0.05	0.08	0.01	0.03	0.02	0.07
ORTHO PHOSPHORUS, mg/L	0.02	0.03	0.01	0.02	0.01	
TOTAL COLIFORM, MPN	300	240	11	240	17	A
FECAL COLIFORM, MPN	<2	2	<2	<2	<2	A
TOTAL IRON, mg/L	0.65	0.85	0.18	0.21	0.23	
DISSOLVED OXYGEN, mg/L	11.4	10.4	11.3	12.3	11.2	
pH	7.3	7.2	7.2	7.7	7.2	7.6
ALKALINITY, mg/L	48	44	52	72	40	296
TEMPERATURE, Degrees C First Sample	4	4	3	4	4	
TEMPERATURE, Degrees C Second Sample	8	8	6	7	8	
DISSOLVED ORGANIC CARBON, mg/L	2.2	2.2	0.9	1.2	1.4	1.3
CHLORIDE, mg/L	3.9	5.9	5.4	7.4	4.9	92
TOTAL DISSOLVED SOLIDS, mg/L	72	81	66	71	60	375
TURBIDITY, NTU	7.2	6.8	1.2	3.1	3.0	
UN-IONIZED AMMONIA, mg/L						
TRIHALOMETHANES, ppb						
BORON, mg/L (not to exceed 1.0)						
SULFATE, mg/L (not to exceed 5)						

Represents a Monthly Sample
and
Represents a Quarterly Sample

SURFACE WATER MONITORING - MARCH, 1999

DATE OF FIRST SAMPLE 1 March 1999

DATE OF SECOND SAMPLE 15 March 1999

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.06	0.18	0.03	0.04	0.03	<0.01
NITRATE - Second Sample, mg/L	0.04	0.12	0.01	0.03	0.02	
TOTAL KJELDAHL NITROGEN, mg/L	0.1	0.1	0.2	0.2	0.3	0.1
TOTAL PHOSPHORUS, mg/L	0.04	0.05	0.03	0.02	0.03	0.05
ORTHO PHOSPHORUS, mg/L	0.02	0.03	0.01	0.01	0.02	
TOTAL COLIFORM, MPN	220	300	170	22	14	A
FECAL COLIFORM, MPN	4	8	<2	<2	<2	A
TOTAL IRON, mg/L	0.45	0.25	0.24	0.42	0.07	
DISSOLVED OXYGEN, mg/L	10.9	11.5	10.5	10.4	10.3	
pH	7.7	7.7	7.8	7.8	7.8	7.5
ALKALINITY, mg/L	48	50	42	40	44	184
TEMPERATURE, Degrees C First Sample	2	3	6	6	7	
TEMPERATURE, Degrees C Second Sample	4	4	5	5	5	
DISSOLVED ORGANIC CARBON, mg/L	1.8	1.9	0.5	0.6	0.7	1.3
CHLORIDE, mg/L	4.9	7.3	2.9	3.9	3.4	92
TOTAL DISSOLVED SOLIDS, mg/L	78	87	54	58	58	375
TURBIDITY, NTU	4.6	5.0	2.9	3.2	3.5	
UN-IONIZED AMMONIA, mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	
TRIHALOMETHANES, ppb		ND		ND	ND	
BORON, mg/L (not to exceed 1.0)					<0.05	
SULFATE, mg/L (not to exceed 5)		3.8		3.5	3.4	

Represents a Monthly Sample
and
Represents a Quarterly Sample

Alpha Analytical, Inc.

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ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Richard Svetich

Alpha Analytical Number: 99030228-01A
Client I.D. Number: WELL 20

Sampled: 3/1/99
Received: 3/2/99
Analyzed: 3/4/99

Total Trihalomethanes by GCMS
EPA Method 524.2

	Compound	Concentration µg/L	Reporting Limit
1	Bromodichloromethane	ND	0.500 µg/L
2	Chloroform	ND	0.500 µg/L
3	Bromoform	ND	0.500 µg/L
4	Dibromochloromethane	ND	0.500 µg/L
5	Total Trihalomethanes	ND	0.500 µg/L

PH: 2
ND = Not Detected

Approved By: Roger Scholl Date: 3/15/99
Roger L. Scholl, Ph.D.
Laboratory Director

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ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Richard Svetich

Alpha Analytical Number: 99030228-02A
Client I.D. Number: WELL TOUPS

Sampled: 3/1/1999
Received: 3/2/1999
Analyzed: 3/5/1999

Total Trihalomethanes by GCMS
EPA Method 524.2

	Compound	Concentration µg/L	Reporting Limit
1	Bromodichloromethane	ND	0.500 µg/L
2	Chloroform	7.25	0.500 µg/L
3	Bromoform	ND	0.500 µg/L
4	Dibromochloromethane	ND	0.500 µg/L
5	Total Trihalomethanes	7.25	0.500 µg/L

PH: 2

ND = Not Detected

Approved By: Roger Scholl Date: 3/15/99

Roger L. Scholl, Ph.D.
Laboratory Director

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ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Richard Svetich

Alpha Analytical Number: 99030228-03A
Client I.D. Number: WELL 36

Sampled: 3/1/1999
Received: 3/2/1999
Analyzed: 3/4/1999

Total Trihalomethanes by GCMS
EPA Method 524.2

	Compound	Concentration µg/L	Reporting Limit
1	Bromodichloromethane	ND	0.500 µg/L
2	Chloroform	0.870	0.500 µg/L
3	Bromoform	ND	0.500 µg/L
4	Dibromochloromethane	ND	0.500 µg/L
5	Total Trihalomethanes	0.870	0.500 µg/L

PH: 2
ND = Not Detected

Approved By: Roger Scholl Date: 3/15/99
Roger L. Scholl, Ph.D.
Laboratory Director

Alpha Analytical, Inc.

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ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Richard Svetich

Alpha Analytical Number: 99030228-04A
Client I.D. Number: WELL 21

Sampled: 3/1/1999
Received: 3/2/1999
Analyzed: 3/4/1999

Total Trihalomethanes by GCMS
EPA Method 524.2

	Compound	Concentration µg/L	Reporting Limit
1	Bromodichloromethane	ND	0.500 µg/L
2	Chloroform	2.23	0.500 µg/L
3	Bromoform	ND	0.500 µg/L
4	Dibromochloromethane	ND	0.500 µg/L
5	Total Trihalomethanes	2.23	0.500 µg/L

PH: 2
ND = Not Detected

Approved By: Roger Scholl Date: 3/15/99

Roger L. Scholl, Ph.D.
Laboratory Director

Alpha Analytical, Inc.

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ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Richard Svetich

Alpha Analytical Number: 99030228-05A
Client I.D. Number: WELL 31

Sampled: 3/1/1999
Received: 3/2/1999
Analyzed: 3/4/1999

Total Trihalomethanes by GCMS
EPA Method 524.2

	Compound	Concentration µg/L	Reporting Limit
1	Bromodichloromethane	ND	0.500 µg/L
2	Chloroform	0.870	0.500 µg/L
3	Bromoform	ND	0.500 µg/L
4	Dibromochloromethane	ND	0.500 µg/L
5	Total Trihalomethanes	0.870	0.500 µg/L

PH: 2
ND = Not Detected

Approved By: Roger Scholl Date: 3/15/99
Roger L. Scholl, Ph.D.
Laboratory Director

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
(702) 355-1044
FAX: (702) 355-0406
1-800-283-1183

e-mail: alpha@powernet.net
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Las Vegas, Nevada
(702) 498-3312
FAX: (702) 736-7523
Sacramento, California
(916) 366-9089
FAX: (916) 366-9138

ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Richard Svetich

Alpha Analytical Number: 99030228-07A
Client I.D. Number: M-2

Sampled: 3/1/1999
Received: 3/2/1999
Analyzed: 3/4/1999

Total Trihalomethanes by GCMS
EPA Method 524.2

	Compound	Concentration µg/L	Reporting Limit
1	Bromodichloromethane	ND	0.500 µg/L
2	Chloroform	ND	0.500 µg/L
3	Bromoform	ND	0.500 µg/L
4	Dibromochloromethane	ND	0.500 µg/L
5	Total Trihalomethanes	ND	0.500 µg/L

PH: 2
ND = Not Detected

Approved By: Roger Scholl Date: 3/15/99
Roger L. Scholl, Ph.D.
Laboratory Director

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Sacramento, California
(916) 366-9089
FAX: (916) 366-9138

ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Richard Svetich

Alpha Analytical Number: 99030228-08A
Client I.D. Number: T-2

Sampled: 3/1/1999
Received: 3/2/1999
Analyzed: 3/4/1999

Total Trihalomethanes by GCMS
EPA Method 524.2

	Compound	Concentration µg/L	Reporting Limit
1	Bromodichloromethane	ND	0.500 µg/L
2	Chloroform	ND	0.500 µg/L
3	Bromoform	ND	0.500 µg/L
4	Dibromochloromethane	ND	0.500 µg/L
5	Total Trihalomethanes	ND	0.500 µg/L

PH: 2
ND = Not Detected

Approved By: Roger Scholl Date: 3/15/99
Roger L. Scholl, Ph.D.
Laboratory Director

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FAX: (916) 366-9138

ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Richard Svetich

Alpha Analytical Number: 99030228-09A
Client I.D. Number: T-3

Sampled: 3/1/1999
Received: 3/2/1999
Analyzed: 3/4/1999

Total Trihalomethanes by GCMS
EPA Method 524.2

	Compound	Concentration µg/L	Reporting Limit
1	Bromodichloromethane	ND	0.500 µg/L
2	Chloroform	ND	0.500 µg/L
3	Bromoform	ND	0.500 µg/L
4	Dibromochloromethane	ND	0.500 µg/L
5	Total Trihalomethanes	ND	0.500 µg/L

PH: 2
ND = Not Detected

Approved By: Roger Scholl Date: 3/15/99
Roger L. Scholl, Ph.D.
Laboratory Director

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(916) 366-9089
FAX: (916) 366-9138

ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Richard Svetich

Alpha Analytical Number: 99030228-06A
Client I.D. Number: FINAL EFFLUENT

Sampled: 3/1/1999
Received: 3/2/1999
Analyzed: 3/4/1999

Total Trihalomethanes by GCMS
EPA Method 524.2

	Compound	Concentration µg/L	Reporting Limit
1	Bromodichloromethane	1.13	0.500 µg/L
2	Chloroform	6.17	0.500 µg/L
3	Bromoform	ND	0.500 µg/L
4	Dibromochloromethane	ND	0.500 µg/L
5	Total Trihalomethanes	7.30	0.500 µg/L

PH: 2
ND = Not Detected

Approved By: Roger Scholl Date: 3/15/99
Roger L. Scholl, Ph.D.
Laboratory Director

nformation :
IOE TRUCKEE SANITATION DISTRICT
20 JOERGER DR.

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431
TEL: (702) 355-1044 FAX: (702) 355-0406

WorkOrder:
TTS99030228

CA
10 Days

oe Truckee Sanitation District
20 Joerger Dr.
:kee, CA 96161

TEL : (530) 587-2525
FAX : (530) 587-5840
Job :
PO :
QC Level :

Sampled by : _____

Attention : Richard Svetich

Cooler Temp : °C

02-Mar-99

e ID	Client Sample ID	Matrix	Collection Date	No. of Bottles	TAT	PWS #	Requested Tests: TTHM_DW									Sample Remarks
)30228-01	WELL 20	DW	3/1/1999	3	10		TTHM									
)30228-02	WELL TOUPS	DW	3/1/1999	3	10		TTHM									
)30228-03	WELL 36	DW	3/1/1999	3	10		TTHM									
)30228-04	WELL 21	DW	3/1/1999	3	10		TTHM									
)30228-05	WELL 31	DW	3/1/1999	3	10		TTHM									
)30228-06	FINAL EFFLUENT	DW	3/1/1999	3	10		TTHM									
)30228-07	M-2	DW	3/1/1999	3	10		TTHM									
)30228-08	T-2	DW	3/1/1999	3	10		TTHM									
)30228-09	T-3	DW	3/1/1999	3	10		TTHM									

:nts:

	Signature	Print Name	Company	Date/Time
iquished by:				
ived by:	Graciela Navarrete	G. Navarrete	Alpha	3-2-99 4:05
iquished by:				
ived by:				

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

rix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Information:
Tahoe-Truckee Sanitation Agency
13720 Joerger Dr.
Zip Truckee, CA. 96161
Number 530-587-2525 Fax 587-5840

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431
Phone (702) 355-1044
Fax (702) 355-0406

5:44 3240

Page # 1 of 1

Above	P.O. #	Job #	
	PWS #	DWR #	
Zip	Phone #	Fax #	

Analyses Required

C.A.
10 days

Date Sampled	Matrix* See Key Below	Office Use Only Lab ID Number	Sampled by	Report Attention	Sample Description	Total and type of containers ** See below	THM								REMARKS
	AQ	TS990302228-01			Well 20	3V	✓								
		02			Well Toups ✓	3v.	✓								
		03			Well 36 ✓	3v.	✓								
		04			well 21 ✓	3v.	✓								
		05			well 31 ✓	3.v.	✓								
		06			Final Effluent	3v.	✓								
		07			M-2	3v.	✓								
		08			T-2	3v.	✓								
		09			T-3	3v.	✓								

SPECIAL INSTRUCTIONS:

Relinquished by	Signature	Print Name	Company	Date	Time
		John Goodwill	Tahoe-Truckee Sanitation	3-2-99	4:05
		G. Navarrete	Alpha	3-2-99	4:05

Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

*: A-Aqueous SO-Soil WA-Waste OT-Other **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Laboratory Analysis Report

Sierra Environmental Monitoring, Inc.

Alpha Analytical

255 Glendale Avenue Suite 21
Sparks, NV 89431

Date: 3/12/99
Client: ALP-855
Taken by: Client
Report: 28313
PO #:

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
9903-0181	TTS99030320-02 - Final Eff	3/1/99		3/3/99

Parameter	Method	Result	Units Of Measure	Detection Limit	Analyst	Date Analyzed
Sodium - ICP-OES	EPA 200.7	91	mg/L	0.1	Lowe	3/10/99

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
9903-0182	TTS99030320-03 - T-3	3/1/99		3/3/99

Parameter	Method	Result	Units Of Measure	Detection Limit	Analyst	Date Analyzed
Total Recoverable Metals - Acid	EPA 200.2	Completed			Kleinworth	3/8/99
Boron - ICP-OES	EPA 200.7	<0.05	mg/L	0.05	Lowe	3/11/99

Sample for Boron preserved in Lab

Approved By: _____ **Date:** 3-12-99

Sierra Environmental Monitoring, Inc

This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.

1135 Financial Blvd.
Reno, NV 89502-2348

John Kohza, Ph.D.

ccurate

Labs & Training Center

March 12, 1999

Client: Alpha Analytical Lab
255 Glendale Ave., Ste. 21
Sparks, NV 89431

Requested by: Heidi Eskew

Work Order:	*TTS99030320*
Sample Description:	**TTS99030320-01A**
Date Samples Collected:	March 1, 1999 (Time: N/A)
Date Samples Received:	March 4, 1999 (Time: 1210)
Sample Type:	*Grab*
Sample Matrix:	***Aqueous***
Lab Log Number:	**G8378**
EPA Certified:	**ICR OK 001**
Kansas Certification:	E-10219
Oklahoma Certification:	DEQ 8316 / **Drinking Water D9602**
Method Reference:	40 CFR 136, 261 Method for Chemical Analysis of Water and Waste EPA-600/4-79-020, March, 1983. Test Method for Evaluating Solid Waste, SW-846, 1986. Latest EPA approved Standard Methods for the Examination of Water and Wastewater.

Analysis

Parameter	Results, mg/L	PQL*, mg/L	*Date/Time of Analysis*	*Analyst*	*Method*
Phenol	**0.025**	0.005	03/09/99 / 1000	SS	420.1

* Practical Quantitation Limit - the method detection limit (MDL) adjusted for any dilutions or other changes made to the sample to deal with interferences/matrix effects.
BPQL: Below Practical Quantitation Limits (if applicable).

QA/QC

Parameter	% Duplicate Recovery	% Spike Recovery
Phenol	86	109

A blank analysis was run with each batch (~10 samples per batch)

George Drye
Lab Manager

sr / Phenol-001

Reviewed by: Ken Crawford
QA/QC Officer

SURFACE WATER MONITORING - FEBRUARY, 1998

DATE OF FIRST SAMPLE 1 February 1999

DATE OF SECOND SAMPLE 15 February 1999

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.09	0.34	0.01	0.06	0.04	<0.01
NITRATE - Second Sample, mg/L	0.08	0.20	0.05	0.04	0.03	
TOTAL KJELDAHL NITROGEN, mg/L	0.1	0.1	0.2	0.2	0.3	0.2
TOTAL PHOSPHORUS, mg/L	0.06	0.04	0.02	0.02	0.02	0.08
ORTHO PHOSPHORUS, mg/L	0.04	0.03	0.02	0.01	0.01	
TOTAL COLIFORM, MPN	280	500	240	500	300	A
FECAL COLIFORM, MPN	30	<2	11	23	7	A
TOTAL IRON, mg/L	0.44	0.46	0.07	0.10	0.18	
DISSOLVED OXYGEN, mg/L	12.6	11.6	11.5	11.0	11.0	
pH	7.6	7.8	7.9	7.8	7.8	7.5
ALKALINITY, mg/L	50	54	44	42	44	184
TEMPERATURE, Degrees C First Sample	2	2	4	4	4	
TEMPERATURE, Degrees C Second Sample	2	3	5	7	6	
DISSOLVED ORGANIC CARBON, mg/L	2.2	2.0	0.7	0.5	0.6	1.2
CHLORIDE, mg/L	3.0	8.9	3.0	4.9	3.0	96
TOTAL DISSOLVED SOLIDS, mg/L	87	95	59	59	61	383
TURBIDITY, NTU	6.8	6.3	1.4	1.1	1.4	
UN-IONIZED AMMONIA, mg/L						
TRIHALOMETHANES, ppb						
BORON, mg/L (not to exceed 1.0)						
SULFATE, mg/L (not to exceed 5)						

Represents a Monthly Sample
and
Represents a Quarterly Sample

SURFACE WATER MONITORING - JANUARY, 1998

DATE OF FIRST SAMPLE 4 January 1999

DATE OF SECOND SAMPLE 18 January 1999

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.09	0.28	0.01	0.05	0.04	<0.01
NITRATE - Second Sample, mg/L	0.05	0.13	0.07	0.12	0.08	
TOTAL KJELDAHL NITROGEN, mg/L	0.1	0.3	0.1	0.2	0.2	0.2
TOTAL PHOSPHORUS, mg/L	0.04	0.06	0.02	0.02	0.02	0.07
ORTHO PHOSPHORUS, mg/L	0.02	0.03	<0.01	0.01	0.01	
TOTAL COLIFORM, MPN	80	110	50	4	7	A
FECAL COLIFORM, MPN	<2	<2	<2	<2	<2	A
TOTAL IRON, mg/L	0.28	0.50	0.06	0.05	0.08	
DISSOLVED OXYGEN, mg/L	9.7	10.4	11.8	11.8	12.3	
pH	7.8	8.0	7.8	7.7	7.8	7.6
ALKALINITY, mg/L	66	70	42	46	52	182
TEMPERATURE, Degrees C First Sample	3	3	1	3	2	
TEMPERATURE, Degrees C Second Sample	3	4	3	2	4	
DISSOLVED ORGANIC CARBON, mg/L	1.4	1.6	0.7	0.8	0.8	1.3
CHLORIDE, mg/L	3.9	7.8	3.9	5.8	4.8	94
TOTAL DISSOLVED SOLIDS, mg/L	105	114	68	75	70	382
TURBIDITY, NTU	2.9	3.5	0.8	1.0	1.0	
UN-IONIZED AMMONIA, mg/L						
TRIHALOMETHANES, ppb						
BORON, mg/L (not to exceed 1.0)						
SULFATE, mg/L (not to exceed 5)						

Represents a Monthly Sample
and
Represents a Quarterly Sample

TAHOE - TRUCKEE SANITATION AGENCY _ TRUCKEE CALIFORNIA
C. F. WOODS - GENERAL MANAGER

WELL SUMMARY - JANUARY 1999

WELL	DATE	SWL	TOC MG/L	TOTAL PHOSPHORUS MG/L	TOTAL KJELDAHL MG/L - N	NITRATE MG/L - N	TOTAL FILT- RES. MG/L	CHLORIDE MG/L	TEMP C	THM UG/L	pH	COLIFORMS TOTAL MPN/100 ML	COLIFORMS FECAL MPN/100 ML
20	1/4/99	5714.9	3.0	0.04	3.4	0.02	382	98	12		7.2		
99	1/4/99	5709.4	3.6	0.06	4.1	4.12	387	104	12		7.0		
36	1/4/99	5690.1	1.4	0.07	0.2	2.14	368	96	12		7.0		
21	1/4/99	5670.7	1.1	0.06	0.2	1.62	321	90	11		7.1		
31	1/4/99	5672.0	1.8	0.07	0.3	0.65	398	110	12		7.1		

WELL	DATE	SWL	ALKALINITY MG/L	UN-IONIZED AMMONIA MG/L
20	1/4/99	5714.9		
99	1/4/99	5709.4		
36	1/4/99	5690.1		
21	1/4/99	5670.7		
31	1/4/99	5672.0		

SURFACE WATER MONITORING - DECEMBER, 1998

DATE OF FIRST SAMPLE 1 December 1998

DATE OF SECOND SAMPLE 14 December 1998

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.07	0.09	0.09	0.08	0.06	<0.01
NITRATE - Second Sample, mg/L	0.11	0.20	0.01	0.03	0.01	
TOTAL KJELDAHL NITROGEN, mg/L	0.2	0.5	0.2	0.3	0.3	0.3
TOTAL PHOSPHORUS, mg/L	0.06	0.06	0.03	0.03	0.03	0.15
ORTHO PHOSPHORUS, mg/L	0.03	0.02	0.01	0.01	0.01	
TOTAL COLIFORM, MPN	900	900	300	300	300	A
FECAL COLIFORM, MPN	7	2	8	8	2	A
TOTAL IRON, mg/L	0.55	0.61	0.35	0.29	0.26	
DISSOLVED OXYGEN, mg/L	12.3	10.9	12.8	11.7	11.6	
pH	8.0	8.1	7.8	7.9	8.0	7.8
ALKALINITY, mg/L	60	62	34	42	40	188
TEMPERATURE, Degrees C First Sample	3	4	2	3	4	
TEMPERATURE, Degrees C Second Sample	3	3	4	6	5	
DISSOLVED ORGANIC CARBON, mg/L	2.2	2.2	1.4	1.4	1.4	1.3
CHLORIDE, mg/L	4.0	4.0	4.0	5.0	4.0	80
TOTAL DISSOLVED SOLIDS, mg/L	101	100	66	73	72	380
TURBIDITY, NTU	11.0	9.2	2.9	3.5	3.8	
UN-IONIZED AMMONIA, mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	
TRIHALOMETHANES, ppb		ND		ND	ND	
BORON, mg/L (not to exceed 1.0)					<0.05	
SULFATE, mg/L (not to exceed 5)		3.9		4.5	4.4	16.0

Represents a Monthly Sample
and
Represents a Quarterly Sample

Alpha Analytical, Inc.

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Sacramento, California
(916) 366-9089
FAX: (916) 366-9138

ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Don McKechnie

Alpha Analytical Number: 98120226-01A
Client I.D. Number: RIVER M-2

Sampled: 12/1/98
Received: 12/2/98
Analyzed: 12/3/98

Total Trihalomethanes by GCMS
E524.2

	Compound	Concentration µg/L	Reporting Limit
1	Bromodichloromethane	ND	0.500 µg/L
2	Chloroform	ND	0.500 µg/L
3	Bromoform	ND	0.500 µg/L
4	Dibromochloromethane	ND	0.500 µg/L
5	Total Trihalomethanes	ND	0.500 µg/L

ND = Not Detected

Approved By: Roger Scholl Date: 12/14/98

Roger L. Scholl, Ph.D.
Laboratory Director

Alpha Analytical, Inc.

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ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Don McKechnie

Alpha Analytical Number: 98120226-02A
Client I.D. Number: RIVER T-2

Sampled: 12/1/98
Received: 12/2/98
Analyzed: 12/3/98

Total Trihalomethanes by GCMS
E524.2

	Compound	Concentration µg/L	Reporting Limit
1	Bromodichloromethane	ND	0.500 µg/L
2	Chloroform	ND	0.500 µg/L
3	Bromoform	ND	0.500 µg/L
4	Dibromochloromethane	ND	0.500 µg/L
5	Total Trihalomethanes	ND	0.500 µg/L

ND = Not Detected

Approved By: Roger Scholl Date: 12/14/98

Roger L. Scholl, Ph.D.
Laboratory Director

Alpha Analytical, Inc.

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ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Don McKechnie

Alpha Analytical Number: 98120226-03A
Client I.D. Number: RIVER T-3

Sampled: 12/1/98
Received: 12/2/98
Analyzed: 12/3/98

Total Trihalomethanes by GCMS
E524.2

	Compound	Concentration µg/L	Reporting Limit
1	Bromodichloromethane	ND	0.500 µg/L
2	Chloroform	ND	0.500 µg/L
3	Bromoform	ND	0.500 µg/L
4	Dibromochloromethane	ND	0.500 µg/L
5	Total Trihalomethanes	ND	0.500 µg/L

ND = Not Detected

Approved By: Roger Scholl Date: 12/14/98

Roger L. Scholl, Ph.D.
Laboratory Director

Alpha Analytical, Inc.

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ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Don McKechnie

Alpha Analytical Number: 98120226-04A
Client I.D. Number: WELL 20

Sampled: 12/1/98
Received: 12/2/98
Analyzed: 12/3/98

Total Trihalomethanes by GCMS
E524.2

	Compound	Concentration µg/L	Reporting Limit
1	Bromodichloromethane	ND	0.500 µg/L
2	Chloroform	ND	0.500 µg/L
3	Bromoform	ND	0.500 µg/L
4	Dibromochloromethane	ND	0.500 µg/L
5	Total Trihalomethanes	ND	0.500 µg/L

ND = Not Detected

Approved By: Roger Scholl Date: 12/14/98

Roger L. Scholl, Ph.D.
Laboratory Director

Alpha Analytical, Inc.

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FAX: (702) 736-7523
Sacramento, California
(916) 366-9089
FAX: (916) 366-9138

ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Don McKechnie

Alpha Analytical Number: 98120226-05A
Client I.D. Number: WELL TOUPS

Sampled: 12/1/98
Received: 12/2/98
Analyzed: 12/4/98

Total Trihalomethanes by GCMS
E524.2

	Compound	Concentration µg/L	Reporting Limit
1	Bromodichloromethane	ND	0.500 µg/L
2	Chloroform	5.79	0.500 µg/L
3	Bromoform	ND	0.500 µg/L
4	Dibromochloromethane	ND	0.500 µg/L
5	Total Trihalomethanes	5.79	0.500 µg/L

ND = Not Detected

Approved By: Roger Scholl Date: 12/14/98

Roger L. Scholl, Ph.D.
Laboratory Director

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ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Don McKechnie

Alpha Analytical Number: 98120226-06A
Client I.D. Number: WELL 36

Sampled: 12/1/98
Received: 12/2/98
Analyzed: 12/4/98

Total Trihalomethanes by GCMS
E524.2

	Compound	Concentration µg/L	Reporting Limit
1	Bromodichloromethane	ND	0.500 µg/L
2	Chloroform	0.555	0.500 µg/L
3	Bromoform	ND	0.500 µg/L
4	Dibromochloromethane	ND	0.500 µg/L
5	Total Trihalomethanes	0.555	0.500 µg/L

ND = Not Detected

Approved By: Roger Scholl Date: 12/14/98

Roger L. Scholl, Ph.D.
Laboratory Director

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ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Don McKechnie

Alpha Analytical Number: 98120226-07A
Client I.D. Number: WELL 21

Sampled: 12/1/98
Received: 12/2/98
Analyzed: 12/4/98

Total Trihalomethanes by GCMS
E524.2

	Compound	Concentration µg/L	Reporting Limit
1	Bromodichloromethane	ND	0.500 µg/L
2	Chloroform	1.01	0.500 µg/L
3	Bromoform	ND	0.500 µg/L
4	Dibromochloromethane	ND	0.500 µg/L
5	Total Trihalomethanes	1.01	0.500 µg/L

ND = Not Detected

Approved By: Roger Scholl Date: 12/14/98

Roger L. Scholl, Ph.D.
Laboratory Director

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ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Don McKechnie

Alpha Analytical Number: 98120226-08A
Client I.D. Number: WELL 31

Sampled: 12/1/98
Received: 12/2/98
Analyzed: 12/4/98

Total Trihalomethanes by GCMS
E524.2

	Compound	Concentration µg/L	Reporting Limit
1	Bromodichloromethane	ND	0.500 µg/L
2	Chloroform	ND	0.500 µg/L
3	Bromoform	ND	0.500 µg/L
4	Dibromochloromethane	ND	0.500 µg/L
5	Total Trihalomethanes	ND	0.500 µg/L

ND = Not Detected

Approved By: Roger Scholl Date: 12/14/98

Roger L. Scholl, Ph.D.
Laboratory Director

Alpha Analytical, Inc.

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Sacramento, California
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ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Don McKechnie

Alpha Analytical Number: 98120226-09A
Client I.D. Number: FINAL EFFLUENT

Sampled: 12/1/98
Received: 12/2/98
Analyzed: 12/4/98

Total Trihalomethanes by GCMS
E524.2

	Compound	Concentration µg/L	Reporting Limit
1	Bromodichloromethane	1.44	0.500 µg/L
2	Chloroform	5.01	0.500 µg/L
3	Bromoform	ND	0.500 µg/L
4	Dibromochloromethane	1.42	0.500 µg/L
5	Total Trihalomethanes	7.87	0.500 µg/L

ND = Not Detected

Approved By: Roger Scholl Date: 12/14/98

Roger L. Scholl, Ph.D.
Laboratory Director

Alpha Analytical, Inc.

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ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Don McKechnie

Alpha Analytical Number: 98120226-09A
Client I.D. Number: FINAL EFFLUENT

Sampled: 12/1/98
Received: 12/2/98
Analyzed: 12/8/98

Base/Neutral/Acids by EPA Method 8270
SW8270A

	Compound	Concentration µg/L	Reporting Limit
1	2,4,6-Trichlorophenol	ND	10 µg/L
2	2,4-Dichlorophenol	ND	20 µg/L
3	2,4-Dimethylphenol	ND	10 µg/L
4	2,4-Dinitrophenol	ND	50 µg/L
5	2-Chlorophenol	ND	10 µg/L
6	2-Nitrophenol	ND	10 µg/L
7	4,6-Dinitro-2-methylphenol	ND	50 µg/L
8	4-Chloro-3-methylphenol	ND	10 µg/L
9	4-Nitrophenol	ND	50 µg/L
10	Pentachlorophenol	ND	50 µg/L
11	Phenol	ND	10 µg/L

ND = Not Detected

Approved By: Roger Scholl Date: 12/14/98

Roger L. Scholl, Ph.D.
Laboratory Director

Laboratory Analysis Report

Sierra Environmental Monitoring, Inc.

TAHOE TRUCKEE SANITATION AGENC
DON McKECHNIE
13720 JOERGER DR.
TRUCKEE CA 96160

Date : 12/14/98
Client : TTS-001
Taken by: CLIENT
Report : 26571
PO# : 09788

Sample	Collected Date	Time	SODIUM ICP MG/L	DIGESTION-TOTAL METALS	BORON ICP-OES MG/L			
FINAL EFFLUENT	12/01/98	8:50	130					
RIVER T-3	12/01/98	13:15		yes	<0.05			

Approved By: _____

TAHOE - TRUCKEE SANITATION AGENCY _ TRUCKEE CALIFORNIA
C. F. WOODS - GENERAL MANAGER

SUMMARY OF OPERATIONS
December 1998

NORTH TAHOE AND TAHOE CITY P.U.D.

DATE	*DAILY FLOW*		*7_DAY AVG. FLOW*		*PEAK FLOW*	
	MG	*ML*	*MG*	*ML*	*MG*	*L/S*
12/1/98	2.13	8.07	2.31	8.75	3.00	131
12/2/98	*Meter Error*		2.36	8.92	2.43	107
12/3/98	1.92	7.26	2.28	8.62	2.53	111
12/4/98	1.90	7.21	2.18	8.25	2.50	110
12/5/98	2.07	7.85	2.10	7.94	2.77	121
12/6/98	1.99	7.51	2.02	7.66	2.89	126
12/7/98	1.83	6.93	1.94	7.35	2.49	109
12/8/98	1.78	6.73	1.92	7.25	2.36	103
12/9/98	1.79	6.76	1.90	7.18	2.36	103
12/10/98	1.78	6.73	1.88	7.10	2.36	103
12/11/98	1.79	6.76	1.86	7.04	2.44	107
12/12/98	1.97	7.46	1.85	6.99	2.53	111
12/13/98	1.95	7.38	1.84	6.97	2.96	130
12/14/98	1.77	6.71	1.83	6.93	2.38	104
12/15/98	1.81	6.85	1.84	6.95	2.48	109
12/16/98	1.77	6.68	1.83	6.94	2.39	105
12/17/98	1.77	6.68	1.83	6.93	2.42	106
12/18/98	1.82	6.90	1.84	6.95	2.42	106
12/19/98	2.07	7.85	1.85	7.01	2.68	118
12/20/98	2.25	8.52	1.89	7.17	3.06	134
12/21/98	2.32	8.77	1.97	7.46	3.10	136
12/22/98	2.36	8.93	2.05	7.76	3.31	145
12/23/98	2.44	9.24	2.15	8.13	3.34	146
12/24/98	2.55	9.66	2.26	8.55	3.35	147
12/25/98	2.54	9.63	2.36	8.94	3.35	147
12/26/98	2.78	10.52	2.46	9.32	4.05	177
12/27/98	2.90	10.97	2.56	9.67	4.17	183
12/28/98	2.96	11.21	2.65	10.02	4.21	185
12/29/98	3.07	11.64	2.75	10.41	4.34	190
12/30/98	3.19	12.08	2.86	10.81	4.40	193
12/31/98	3.52	13.33	3.00	11.34	4.89	214
SUMMARY						
AVG	2.23	8.43	2.14	8.11	3.03	133
MAX	3.52	13.33	3.00	11.34	4.89	214
MIN	1.77	6.68	1.83	6.93	2.36	103

MONITORING & REPORTING TRACKING FORM

(6.21.01)

WDID No. 6A 290011600 Return to Cheryl by 6/15/01 CH

Board Order No. 6-90-27 Date SMR Received 5/15/01

Report Frequency: ~~M~~ IR Staff: TJP Reviewed By: AK

Report Type: ~~M~~ M Review Date: 6/2/01
(Monitoring, Pretreatment, Sludge, Other)

Date Report Due: (DAY/MONTH/YEAR) 5-15-01

Facility TTSA

Compliance X YES ____ NO

REMINDER: PLEASE COMPLETE VIOLATION FORM ON REVERSE SIDE FOR NONCOMPLIANCE

Comments: (Do you want this entered on Program comment line? (Y)/N)
Effluent Disinfection Study

If not in compliance, what is the recommended action?

Supervisor reviewed? Yes ____ No X

FYI (Current entry on program comment line - Do you want this deleted? Y/N)

DATE	LOCATION	COLILERT PRESENCE/ABSENCE		15-TUBE MPN	
		COLIFORM	FECAL COLIFORM	COLIFORM	FECAL COLIFORM
05-Mar	WELL 28	P	P	23	2
	WELL 25	P	A	13	2
	WELL 21	A	A		
	WELL 31	A	A		
12-Mar	WELL 28	P	A	30	8
	WELL 25	P	A	11	<2
	WELL 21	A	A		
	WELL 31	P	A		
19-Mar	WELL 28	P	P	4	<2
	WELL 25	P	A	2	<2
	WELL 21	A	A		
	WELL 31	A	A		
26-Mar	WELL 28	P	P	4	<2
	WELL 25	P	P	9	<2
	WELL 21	A	A		
	WELL 31	A	A		

DISPOSAL FIELD BACTERIOLOGICAL RESULTS - 2001

DATE	LOCATION	COLILERT PRESENCE/ABSENCE		15-TUBE MPN	
		COLIFORM	FECAL COLIFORM	COLIFORM	FECAL COLIFORM
02-Apr	WELL 28	P	A	11	<2
	WELL 25	P	A	4	<2
	WELL 21	A	A		
	WELL 31	P	A		
09-Apr	WELL 28	P	P	23	<2
	WELL 25	P	A	4	2
	WELL 21	A	A		
	WELL 31	P	A		
16-Apr	WELL 28	P	P	4	<2
	WELL 25	P	A	4	<2
	WELL 21	A	A		
	WELL 31	A	A		
23-Apr	WELL 28	P	A	4	<2
	WELL 25	P	P	2	<2
	WELL 21	A	A		
	WELL 31	A	A		

SURFACE WATER MONITORING - MARCH, 2001

DATE OF FIRST SAMPLE 5 March 2001

DATE OF SECOND SAMPLE 20 March 2001

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.03	0.22	0.01	0.06	0.02	<0.01
NITRATE - Second Sample, mg/L	0.01	0.09	0.04	0.07	0.02	
TOTAL KJELDAHL NITROGEN, mg/L	0.1	0.2	0.4	0.7	0.6	0.2
TOTAL PHOSPHORUS, mg/L	0.06	0.06	0.06	0.06	0.06	0.06
ORTHO PHOSPHORUS, mg/L	0.04	0.04	0.03	0.03	0.02	
TOTAL COLIFORM, MPN	11	80	13	50	30	A
FECAL COLIFORM, MPN	<2	<2	2	<2	2	A
TOTAL IRON, mg/L	0.18	0.24	0.07	0.08	0.11	
DISSOLVED OXYGEN, mg/L	11.3	11.2	11.3	11.4	11.1	
pH	7.7	7.9	8.0	7.9	7.9	7.7
ALKALINITY, mg/L	64	72	42	50	44	192
TEMPERATURE, Degrees C First Sample	3	4	4	4	5	
TEMPERATURE, Degrees C Second Sample	5	6	6	7	8	
DISSOLVED ORGANIC CARBON, mg/L	1.1	1.1	0.6	0.6	0.9	1.3
CHLORIDE, mg/L	2.9	7.3	1.6	5.0	3.8	105
TOTAL DISSOLVED SOLIDS, mg/L	97	109	56	64	63	410
TURBIDITY, NTU	2.0	2.4	1.1	1.5	2.4	
UN-IONIZED AMMONIA, mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	
TRIHALOMETHANES, ppb		ND		ND	ND	
BORON, mg/L (not to exceed 1.0)					<0.05	
SULFATE, mg/L (not to exceed 5)		2.8		3.3	3.0	

Represents a Monthly Sample
and
Represents a Quarterly Sample

MONITO G & REPORTING TRACKING FC

ENTERED 3-26-01 CH

WDID No. 6A 29001000 Return to Cheryl by 4/14/01

Board Order No. 6-90-27 Date SMR Received 3/14/01

Report Frequency : 4 Staff: TSP Reviewed By: AK

Report Type: M
(Monitoring, Pretreatment, Sludge, Other) Review Date: 3/22/01

Date Report Due: (DAY/MONTH/YEAR) 3-14-01

Facility TTSA

Compliance X YES ____NO

REMINDER: PLEASE COMPLETE VIOLATION FORM ON REVERSE SIDE FOR NONCOMPLIANCE

Comments: (Do you want this entered on Program comment line? Y(N))
Disinfection Study

If not in compliance, what is the recommended action?

Supervisor reviewed? Yes _____ No X

FYI (Current entry on program comment line - Do you want this deleted? Y/N)

DISPOSAL FIELD BACTERIOLOGICAL RESULTS - 2001

DATE	LOCATION	COLILERT PRESENCE/ABSENCE		15-TUBE MPN	
		COLIFORM	FECAL COLIFORM	COLIFORM	FECAL COLIFORM
02-Jan	WELL 28	P	P	300	130
	WELL 25	P	P	23	8
	WELL 21	A	A		
	WELL 31	P	A		
08-Jan	WELL 28	P	P	170	7
	WELL 25	P	P	50	13
	WELL 21	A	A		
	WELL 31	A	A		
15-Jan	WELL 28	P	P	50	6
	WELL 25	P	P	11	<2
	WELL 21	A	A		
	WELL 31	A	A		
22-Jan	WELL 28	P	P	22	13
	WELL 25	P	P	33	8
	WELL 21	A	A		
	WELL 31	A	A		
29-Jan	WELL 28	P	P	13	<2
	WELL 25	P	P	30	<2
	WELL 21	A	A		
	WELL 31	A	A		
05-Feb	WELL 28	P	P	27	4
	WELL 25	P	P	11	2
	WELL 21	A	A		
	WELL 31	A	A		
12-Feb	WELL 28	P	P	27	2
	WELL 25	P	P	17	2
	WELL 21	A	A		
	WELL 31	P	A		
20-Feb	WELL 28	P	P	4	2
	WELL 25	P	P	9	<2
	WELL 21	A	A		
	WELL 31	A	A		
26-Feb	WELL 28	P	P	17	2
	WELL 25	P	P	14	2
	WELL 21	A	A		
	WELL 31	A	A		
	WELL 28				
	WELL 25				
	WELL 21				
	WELL 31				

SURFACE WATER MONITORING - FEBRUARY, 2001

DATE OF FIRST SAMPLE 5 February 2001

DATE OF SECOND SAMPLE 20 February 2001

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.03	0.25	0.01	0.07	0.03	<0.01
NITRATE - Second Sample, mg/L	0.04	0.28	0.01	0.06	0.02	
TOTAL KJELDAHL NITROGEN, mg/L	0.1	0.1	0.4	0.6	0.4	0.2
TOTAL PHOSPHORUS, mg/L	0.07	0.06	0.02	0.04	0.04	0.08
ORTHO PHOSPHORUS, mg/L	0.02	0.02	0.01	0.02	0.01	
TOTAL COLIFORM, MPN	17	17	13	9	11	P
FECAL COLIFORM, MPN	<2	<2	2	<2	<2	A
TOTAL IRON, mg/L	0.17	0.18	0.04	0.04	0.06	
DISSOLVED OXYGEN, mg/L	10.9	11.2	11.4	11.0	11.8	
pH	8.0	8.0	7.9	7.8	7.9	7.6
ALKALINITY, mg/L	76	76	46	54	44	194
TEMPERATURE, Degrees C First Sample	4	6	4	5	5	
TEMPERATURE, Degrees C Second Sample	4	4	3	4	4	
DISSOLVED ORGANIC CARBON, mg/L	0.9	0.9	0.4	0.5	0.8	1.4
CHLORIDE, mg/L	1.8	8.6	1.8	5.2	4.2	108
TOTAL DISSOLVED SOLIDS, mg/L	107	116	59	70	70	419
TURBIDITY, NTU	1.6	2.0	1.0	0.6	1.1	
UN-IONIZED AMMONIA, mg/L						
TRIHALOMETHANES, ppb						
BORON, mg/L (not to exceed 1.0)						
SULFATE, mg/L (not to exceed 5)						

Represents a Monthly Sample
and
Represents a Quarterly Sample

These samples from 20 Feb 2001

SURFACE WATER MONITORING - JANUARY, 2001

DATE OF FIRST SAMPLE 2 January 2001

DATE OF SECOND SAMPLE 17 January 2001

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.03	0.19	<0.01	0.03	0.01	0.01
NITRATE - Second Sample, mg/L	0.04	0.29	0.01	0.05	0.03	
TOTAL KJELDAHL NITROGEN, mg/L	0.2	0.2	0.2	0.3	0.2	0.2
TOTAL PHOSPHORUS, mg/L	0.05	0.09	0.09	0.05	0.04	0.03
ORTHO PHOSPHORUS, mg/L	0.04	0.04	0.07	0.05	0.04	
TOTAL COLIFORM, MPN	13	27	11	9	8	A
FECAL COLIFORM, MPN	<2	<2	2	<2	<2	A
TOTAL IRON, mg/L	0.18	0.16	0.03	0.09	0.06	
DISSOLVED OXYGEN, mg/L	11.8	11.4	11.4	11.6	12.0	
pH	8.3	8.0	7.9	7.9	7.9	7.8
ALKALINITY, mg/L	70	74	44	56	42	196
TEMPERATURE, Degrees C First Sample	5	3	3	4	3	
TEMPERATURE, Degrees C Second Sample	4	3	1	1	1	
DISSOLVED ORGANIC CARBON, mg/L	1.1	1.0	0.5	0.5	0.8	1.4
CHLORIDE, mg/L	0.89	8.6	0.99	2.9	1.4	107
TOTAL DISSOLVED SOLIDS, mg/L	100	118	57	70	67	425
TURBIDITY, NTU	2.1	1.6	0.6	1.0	1.0	
UN-IONIZED AMMONIA, mg/L						
TRIHALOMETHANES, ppb						
BORON, mg/L (not to exceed 1.0)						
SULFATE, mg/L (not to exceed 5)						

Represents a Monthly Sample
and
Represents a Quarterly Sample

MONITORING & REPORTING TRACKING FORM

ENTERED 2-23-01 (CK)

WDID No. 6A 2900/1000 Return to Cheryl by 2/16/01

Board Order No. 6-90-27 Date SMR Received 1/16/01

Report Frequency: M Staff: KB Reviewed By: AK

Report Type: M Review Date: 2/17/01
(Monitoring, Pretreatment, Sludge, Other)

Date Report Due: (DAY/MONTH/YEAR) 12-1500

Facility TTSA

Compliance ~~X~~ YES X NO

REMINDER: PLEASE COMPLETE VIOLATION FORM ON REVERSE SIDE FOR NONCOMPLIANCE

Comments: (Do you want this entered on Program comment line? Y/N)

Total coliform exceeded limitations because TTSA is currently conducting tests disinfection

If not in compliance, what is the recommended action?

No further action because RB approved study. Blue Form.

Supervisor reviewed? Yes ____ No X

FYI (Current entry on program comment line - Do you want this deleted? Y/N)

SURFACE WATER MONITORING - DECEMBER, 2000

DATE OF FIRST SAMPLE 4 December 2000

DATE OF SECOND SAMPLE 19 December 2000

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.02	0.11	0.02	0.02	<0.01	<0.01
NITRATE - Second Sample, mg/L	0.02	0.16	<0.01	0.02	0.01	
TOTAL KJELDAHL NITROGEN, mg/L	0.3	0.3	0.6	0.3	0.3	0.2
TOTAL PHOSPHORUS, mg/L	0.03	0.07	0.05	0.07	0.09	0.07
ORTHO PHOSPHORUS, mg/L	0.01	0.04	0.03	0.07	0.06	
TOTAL COLIFORM, MPN	13	22	22	17	21	A
FECAL COLIFORM, MPN	<2	<2	<2	<2	<3	A
TOTAL IRON, mg/L	0.18	0.16	0.04	0.05	0.24	
DISSOLVED OXYGEN, mg/L	11.3	10.8	10.5	10.4	10.5	
pH	8.4	8.4	7.9	8.0	8.0	7.9
ALKALINITY, mg/L	74	72	44	50	44	42
TEMPERATURE, Degrees C First Sample	6	6	6	6	6	
TEMPERATURE, Degrees C Second Sample	5	3	3	5	3	
DISSOLVED ORGANIC CARBON, mg/L	1.2	1.3	0.6	0.6	1.1	1.5
CHLORIDE, mg/L	1.4	7.4	6.6	3.8	4.6	109
TOTAL DISSOLVED SOLIDS, mg/L	103	126	83	82	74	426
TURBIDITY, NTU	1.5	1.4	0.5	0.5	1.4	
UN-IONIZED AMMONIA, mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	
TRIHALOMETHANES, ppb		ND		ND	ND	
BORON, mg/L (not to exceed 1.0)					<0.05	
SULFATE, mg/L (not to exceed 5)		2.4		2.8	2.4	

Represents a Monthly Sample
and
Represents a Quarterly Sample

SURFACE WATER MONITORING - OCTOBER, 2000

DATE OF FIRST SAMPLE 2 October 2000

DATE OF SECOND SAMPLE 17 October 2000

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.04	0.20	<0.01	0.02	0.01	<0.01
NITRATE - Second Sample, mg/L	0.03	0.16	<0.01	0.01	<0.01	
TOTAL KJELDAHL NITROGEN, mg/L	0.2	0.3	0.2	0.6	0.2	0.2
TOTAL PHOSPHORUS, mg/L	0.04	0.04	0.07	0.04	0.02	0.06
ORTHO PHOSPHORUS, mg/L	<0.01	0.01	0.02	0.01	0.01	
TOTAL COLIFORM, MPN	70	500	220	80	80	A
FECAL COLIFORM, MPN	<2	<2	2	<2	4	A
TOTAL IRON, mg/L	0.19	0.07	0.19	0.07	0.14	
DISSOLVED OXYGEN, mg/L	8.6	8.5	8.6	8.5	8.8	
pH	9.1	8.2	8.1	8.1	8.1	7.7
ALKALINITY, mg/L	72	74	44	46	42	194
TEMPERATURE, Degrees C First Sample	16	13	14	16	15	
TEMPERATURE, Degrees C Second Sample	11	8	11	12	12	
DISSOLVED ORGANIC CARBON, mg/L	2.0	1.6	0.7	1.1	1.5	1.5
CHLORIDE, mg/L	<0.5	1.0	1.0	3.0	3.0	103
TOTAL DISSOLVED SOLIDS, mg/L	98	124	57	68	64	419
TURBIDITY, NTU	1.8	1.6	0.8	0.8	1.6	
UN-IONIZED AMMONIA, mg/L						
TRIHALOMETHANES, ppb						
BORON, mg/L (not to exceed 1.0)						
SULFATE, mg/L (not to exceed 5)						

Represents a Monthly Sample
and
Represents a Quarterly Sample

These samples were collected 30 October 2000.

Tahoe Truckee Sanitation Agency

Benthic Invertebrates

	Sampling Location				
	M-1	M-2	T-1	T-2	T-3
Date	10/26/00	10/26/00	10/26/00	10/26/00	10/26/00
Temperature Centigrade	9	8	9	9	9
Sampling Device	Surber	Surber	Surber	Surber	Surber

Below is the number of individuals found per sampling device, which is noted, in the lower row above. The Surber Sampler represents 929 cm2 while the Hester Dendy sampler represents 1238 cm2.

Insecta					
Coleoptera (beetles)	6	1	1	5	1
Diptera (true flies)					
Ephemoptera (mayflies)				2	
Plecoptera (stoneflies)	14	7	6	6	
Tricoptera (caddisflies)					
Mollusca					
Crustacea	12	4		2	
Platyhelminthes	95	5			
Annelida (Oligochaeta)	15	12	1	5	3
Arachnoidia					
Total	142	29	8	20	4
Diversity	2.94	4.06	2.09	4.55	1.75

Notes:

Periphyton

Tahoe Truckee Sanitation Agency

Date October 26, 2000	M- 1	M-2	T-1	T-2	T-3
Date In/Out	10-12/ 10-26	10-12/ 10-26	10-12/ 10-26	10-12/ 10-26	10-12/ 10-26
Days of Exposure	14	14	14	14	14
Temperature In/Out C	12/9	14/8	13/9	13/9	12/9

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2	1.585	18.821	1.8517	3.208	1.5354
Grams ash free dry wt/m2	0.4877	6.134	0.461	1.1316	0.7162
Percent volatile	30.8	32.6	24.9	35.3	46.6

Relative Percentages

CHLOROPHYTA (Green algae)	10	20	15	35	30
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE (Diatoms)	90	80	85	65	70
CYANOPHYTA (blue green algae)					

Notes:

Periphyton
Tahoe Truckee Sanitation Agency

Date October 12, 2000	M- 1	M-2	T-1	T-2	T-3
Date In/Out	9-25/ 10-12	9-25/ 10-12	9-25/ 10-12	9-25/ 10-12	9-25/ 10-12
Days of Exposure	17	17	17	17	17
Temperature In/Out C	13/12	16/14	17/13	17/13	17/12

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2	5.734	35.669	8.835	12.341	15.370
Grams ash free dry wt/m2	2.309	13.895	2.164	4.268	3.536
Percent volatile	40.3	39.0	24.5	34.6	23.0

Relative Percentages

CHLOROPHYTA (Green algae)	20	30	10	20	20
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE (Diatoms)	80	70	90	80	80
CYANOPHYTA (blue green algae)					

Notes:

SURFACE WATER MONITORING - SEPTEMBER, 2000

DATE OF FIRST SAMPLE 5 September 2000

DATE OF SECOND SAMPLE 19 September 2000

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.05	0.27	<0.01	0.02	<0.01	<0.01
NITRATE - Second Sample, mg/L	0.06	0.27	<0.01	0.02	<0.01	
TOTAL KJELDAHL NITROGEN, mg/L	0.6	0.4	0.5	0.4	0.8	0.3
TOTAL PHOSPHORUS, mg/L	0.03	0.03	<0.01	0.03	0.01	0.03
ORTHO PHOSPHORUS, mg/L	0.01	0.01	<0.01	0.01	0.01	
TOTAL COLIFORM, MPN	13	30	23	4	13	A
FECAL COLIFORM, MPN	<2	<2	<2	<2	2	A
TOTAL IRON, mg/L	0.14	0.16	0.04	0.05	0.12	
DISSOLVED OXYGEN, mg/L	8.7	7.8	8.4	7.9	8.2	
pH	9.2	8.6	8.1	8.2	8.1	7.7
ALKALINITY, mg/L	70	76	44	50	50	192
TEMPERATURE, Degrees C First Sample	16	16	15	15	15	
TEMPERATURE, Degrees C Second Sample	18	20	18	17	17	
DISSOLVED ORGANIC CARBON, mg/L	2.0	1.9	0.5	0.6	0.9	1.5
CHLORIDE, mg/L	2.5	13.8	2.5	4.9	3.9	101
TOTAL DISSOLVED SOLIDS, mg/L	89	124	53	67	64	413
TURBIDITY, NTU	2.5	2.4	0.7	0.8	1.1	
UN-IONIZED AMMONIA, mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	
TRIHALOMETHANES, ppb		ND		ND	ND	
BORON, mg/L (not to exceed 1.0)					<0.05	
SULFATE, mg/L (not to exceed 5)		2.5		1.8	1.9	

Represents a Monthly Sample
and
Represents a Quarterly Sample

Tahoe Truckee Sanitation Agency

Benthic Invertebrates

	Sampling Location				
	M-1	M-2	T-1	T-2	T-3
Date	9/25/00	9/25/00	9/25/00	9/25/00	9/25/00
Temperature Centigrade	13	16	17	17	17
Sampling Device	Surber	Surber	Surber	Surber	Surber

Below is the number of individuals found per sampling device, which is noted, in the lower row above. The Surber Sampler represents 929 cm2 while the Hester Dendy sampler represents 1238 cm2.

Insecta					
Coleoptera (beetles)		6			
Diptera (true flies)		2			
Ephemoptera (mayflies)	2		1	2	6
Plecoptera (stoneflies)	37	16	6	6	3
Tricoptera (caddisflies)			1		2
Mollusca					
Crustacea		3			
Platyhelminthes	13	1	4	9	7
Annelida (Oligochaeta)	5	19	1		
Arachnoidia					
Total	57	47	13	17	18
Diversity	2.58	4.01	3.71	2.60	3.58

Notes:

Periphyton
Tahoe Truckee Sanitation Agency

Date September 8, 2000	M- 1	M-2	T-1	T-2	T-3
Date In/Out	8-24/9-8	8-24/9-8	* 1	8-24/9-8	*2
Days of Exposure	15	15		15	
Temperature In/Out C	19/26	22/18		21/16	

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2	2.07	5.00		22.78	
Grams ash free dry wt/m2	1.00	1.49		2.33	
Percent volatile	48.3	29.8		10.2	

Relative Percentages

CHLOROPHYTA (Green algae)	40	20		50	
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE (Diatoms)	60	80		50	
CYANOPHYTA (blue green algae)					

Notes:

1. T-1 sampler vandalized, no longer at site.

2. T-3 sampler vandalized, no longer at site.

Periphyton
Tahoe Truckee Sanitation Agency

Date September 25, 2000	M- 1	M-2	T-1	T-2	T-3
Date In/Out	9-8/9-25	9-8/9-25	* 1	9-8/9-25	9-8/9-25
Days of Exposure	17	17		17	17
Temperature In/Out C	26/13	18/16		16 /17	16/17

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2	7.48	5.79		5.50	3.46
Grams ash free dry wt/m2	3.75	1.95		2.09	1.88
Percent volatile	50.1	33.7		38.0	54.3

Relative Percentages

CHLOROPHYTA (Green algae)	50	40		20	40
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE (Diatoms)	50	60		80	60
CYANOPHYTA (blue green algae)					

Notes:

1. T-1 sampler vandalized, no longer at site.

SURFACE WATER MONITORING - AUGUST, 2000

DATE OF FIRST SAMPLE 1 August 2000

DATE OF SECOND SAMPLE 16 August 2000

CONSTITUENTS	M-1 (Martis)	M-2	T-1 (Truckee)	T-2	T-3	1-WATER (Stateline)
NITRATE - First Sample, mg/L	0.01	0.19	<0.01	0.02	0.01	<0.01
NITRATE - Second Sample, mg/L	0.06	0.33	<0.01	0.02	0.01	
TOTAL KJELDAHL NITROGEN, mg/L	0.2	0.3	0.3	0.2	0.3	0.4
TOTAL PHOSPHORUS, mg/L	0.03	0.03	0.02	0.02	0.02	0.07
ORTHO PHOSPHORUS, mg/L	0.02	0.02	0.01	<0.01	0.01	
TOTAL COLIFORM, MPN	13	240	170	130	50	A
FECAL COLIFORM, MPN	<2	4	8	13	23	A
TOTAL IRON, mg/L	0.12	0.15	0.14	0.13	0.18	
DISSOLVED OXYGEN, mg/L	6.6	7.3	6.6	6.4	7.2	
pH	9.1	8.5	8.0	8.0	7.9	7.6
ALKALINITY, mg/L	76	74	60	58	42	188
TEMPERATURE, Degrees C First Sample	18	16	18	18	16	
TEMPERATURE, Degrees C Second Sample	20	22	21	16	14	
DISSOLVED ORGANIC CARBON, mg/L	2.5	1.8	0.8	0.7	1.0	1.5
CHLORIDE, mg/L	1.0	13.5	2.0	3.5	2.5	100
TOTAL DISSOLVED SOLIDS, mg/L	85	116	50	62	54	397
TURBIDITY, NTU	1.5	1.6	0.8	0.9	1.4	
UN-IONIZED AMMONIA, mg/L						
TRIHALOMETHANES, ppb						
BORON, mg/L (not to exceed 1.0)						
SULFATE, mg/L (not to exceed 5)						

Represents a Monthly Sample
and
Represents a Quarterly Sample

Periphyton

Tahoe Truckee Sanitation Agency

Date August 25, 2000	M- 1	M-2	T-1	T-2	T-3
Date In/Out	8-8/8-24	* 1	* 2	* 3	8-8/8-25
Days of Exposure	16				17
Temperature In/Out C	21/19				20/17

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2	25.02				2.92
Grams ash free dry wt/m2	11.15				1.34
Percent volatile	44.6				45.9

Relative Percentages

CHLOROPHYTA (Green algae)	60				20
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE (Diatoms)	40				80
CYANOPHYTA (blue green algae)					

Notes:

1. M-2 sampler vandalized, no longer at site.

2. T-1 sampler vandalized, no longer at site.

3. T-2 sampler vandalized, no longer at site.

Periphyton

Tahoe Truckee Sanitation Agency

Date August 8, 2000	M- 1	M-2	T-1	T-2	T-3
Date In/Out	7-25/8-8	7-25/8-8	7-25/8-8	7-25/8-8	* 1
Days of Exposure	14	14	14	14	
Temperature In/Out C	22/21	22/23	19/22	20/23	18/20

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2	5.48	12.05	4.16	13.20	
Grams ash free dry wt/m2	3.11	4.43	1.55	4.59	
Percent volatile	56.8	36.8	37.3	34.8	

Relative Percentages

CHLOROPHYTA (Green algae)	80	60	20	80	
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE (Diatoms)	20	40	80	20	
CYANOPHYTA (blue green algae)					

Notes:

1. T-3 sampler vandalized, no longer at site.

Tahoe Truckee Sanitation Agency

Benthic Invertebrates

	Sampling Location				
	M-1	M-2	T-1	T-2	T-3
Date	8/8/00	8/8/00	8/8/00	8/8/00	8/8/00
Temperature Centigrade	21	23	22	23	20
Sampling Device	Surber	Surber	Surber	Surber	Surber

Below is the number of individuals found per sampling device, which is noted, in the lower row above. The Surber Sampler represents 929 cm2 while the Hester Dendy sampler represents 1238 cm2.

Insecta					
Coleoptera (beetles)	3	2	2		
Diptera (true flies)	81	32	7	10	9
Ephemoptera (mayflies)	21	15	6	9	13
Plecoptera (stoneflies)	5	29	5	12	7
Tricoptera (caddisflies)		4			1
Mollusca					
Crustacea					
Platyhelminthes					
Annelida (Oligochaeta)	13				
Arachnoidia	55	4		1	1
Total	178	86	20	32	31
Diversity	3.79	4.11	3.69	3.31	3.6

Notes: 1. M-1 location had extremely heavy algae growth.

2. M-2 location had heavy algae growth.

SURFACE WATER MONITORING - MAY, 2000

DATE OF FIRST SAMPLE 1 May 2000

DATE OF SECOND SAMPLE 16 May 2000

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.01	0.08	0.02	0.04	0.01	<0.01
NITRATE - Second Sample, mg/L	0.01	0.10	0.02	0.04	0.01	
TOTAL KJELDAHL NITROGEN, mg/L	<0.1	0.2	0.1	0.1	0.2	0.1
TOTAL PHOSPHORUS, mg/L	0.03	0.03	0.02	0.02	0.02	0.10
ORTHO PHOSPHORUS, mg/L	0.02	0.02	0.01	0.01	0.01	
TOTAL COLIFORM, MPN	7	110	13	12	2	A
FECAL COLIFORM, MPN	<2	2	2	<2	<2	A
TOTAL IRON, mg/L	0.36	0.36	0.16	0.17	0.26	
DISSOLVED OXYGEN, mg/L	9.1	8.7	10.2	9.9	9.6	
pH	8.1	8.1	8.0	8.0	8.0	7.7
ALKALINITY, mg/L	44	50	32	34	32	192
TEMPERATURE, Degrees C First Sample	12	12	7	8	8	
TEMPERATURE, Degrees C Second Sample	10	7	4	5	6	
DISSOLVED ORGANIC CARBON, mg/L	2.7	2.5	1.4	1.5	1.6	1.5
CHLORIDE, mg/L	1.9	4.3	2.9	4.3	2.4	94
TOTAL DISSOLVED SOLIDS, mg/L	81	88	54	64	59	385
TURBIDITY, NTU	3.6	3.9	1.3	2.1	2.0	
UN-IONIZED AMMONIA, mg/L						
TRIHALOMETHANES, ppb						
BORON, mg/L (not to exceed 1.0)						
SULFATE, mg/L (not to exceed 5)						

Represents a Monthly Sample
and
Represents a Quarterly Sample

Tahoe-Truckee Sanitation Agency

Benthic Invertebrates

	Sampling Location				
July 25, 2000	M-1	M-2	T-1	T-2	T-3
Date	7/25	7/25	7/25	7/25	7/25
Temperature Centigrade	22	22	19	20	18
Sampling Device	Surber	Surber	Surber	Surber	Surber

Below is the number of individuals found per sampling device, which is noted, in the lower row above. The Surber Sampler represents 929 cm2 while the Hester Dendy sampler represents 1238 cm2.

Insecta					
Coleoptera (beetles)	3	1	1		
Diptera (true flies)	15	18	6	4	4
Ephemoptera (mayflies)	1	27	4	4	3
Plecoptera (stoneflies)			2	4	2
Tricoptera (caddisflies)			5	11	1
Mollusca	1				
Crustacea		1			
Platyhelminthes	5				
Annelida (Oligochaeta)	9		1		1
Arachnoidia	1				
Total	35	47	19	23	11
Diversity	4.51	2.34	4.90	3.54	4.34

Notes:

Periphyton

Tahoe Truckee Sanitation Agency

Year July 25, 2000	M- 1	M-2	T-1	T-2	T-3
Date In/Out	7-6/7-25	7-6/7-25	7-6/7-25	7-6/7-25	7-6/7-25
Days of Exposure	19	19	19	19	19
Temperature In/Out C	16/22	18/22	14/19	15/20	15/18

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2	1.	1.42	4.52	4.53	1.44
Grams ash free dry wt/m2		0.44	2.22	1.25	.42
Percent volatile		31.0%	49.1%	23.0%	29.2%

Relative Percentages

CHLOROPHYTA (Green algae)		50		5	
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE (Diatoms)		50	100	95	100
CYANOPHYTA (Blue green algae)					

Notes:

1. The sampler at location M-1 had been removed from the water flow.
2. There were many Dipteran larvae grazing on all the samplers in the Truckee river.

Periphyton
Tahoe Truckee Sanitation Agency

Year July 6, 2000	M- 1	M-2	T-1	T-2	T-3
Date In/Out	6-20/7-6	6-20/7-6	6-20/7-6	6-20/7-6	6-20/7-6
Days of Exposure	16	16	16	16	16
Temperature In/Out C	18/16	21/18	16/14	17/15	16/15

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2	1.	4.46	2.	10.53	5.60
Grams ash free dry wt/m2		1.69		6.00	2.64
Percent volatile		37.9%		57.0%	47.1%

Relative Percentages

CHLOROPHYTA (Green algae)		15			
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE (Diatoms)		85		100	100
CYANOPHYTA (Blue green algae)					

Notes:

1. The sampler at location M-1 was missing.
2. The sampler at location T-1 was missing.
3. The samplers at locations T-2 and T-3 were heavily infested with grazing Dipterans.

Periphyton

Tahoe Truckee Sanitation Agency

Year May 23, 2000	M- 1	M-2	T-1	T-2	T-3
Date In/Out	5-9/5-23	5-9/5-23	5-9/5-23	5-9/5-23	5-9/5-23
Days of Exposure	14	14	14	14	14
Temperature In/Out C	13/6	8/8	8/9	8/11	9/11

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2	QNS	1.69	4.13	16.73	9.32
Grams ash free dry wt/m2		0.97	1.01	2.79	1.79
Percent volatile		57.4%	24.4%	16.7%	19.2%

Relative Percentages

CHLOROPHYTA **(Green algae)**			60	55	40
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE **(Diatoms)**	100	100	40	45	60
CYANOPHYTA **(Blue green algae)**					

Notes:

1. There was insufficient bioaccumulation on the sampler located at station M-1 for enumeration.

Periphyton
Tahoe Truckee Sanitation Agency

Year May 2000	M- 1	M-2	T-1	T-2	T-3
Date In/Out	4-17/5-9	4-17/5-9	4-17/5-9	4-17/5-9	4-17/5-9
Days of Exposure	22	22	22	22	22
Temperature In/Out C	8/13	8/10	6/8	6/8	6/9

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2	0.80	1.60	5.07	18.51	8.30
Grams ash free dry wt/m2	0.26	0.86	2.14	2.47	2.49
Percent volatile	32.5%	53.8%	42.2%	13.3%	30.0%

Relative Percentages

CHLOROPHYTA (Green algae)		50	60	80	50
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE (Diatoms)	100	50	40	20	50
CYANOPHYTA (Blue green algae)					

Notes:

SURFACE WATER MONITORING - JULY, 2000

DATE OF FIRST SAMPLE 3 July 2000

DATE OF SECOND SAMPLE 17 July 2000

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.02	0.17	0.01	0.02	0.01	<0.01
NITRATE - Second Sample, mg/L	0.02	0.16	<0.01	0.02	<0.01	
TOTAL KJELDAHL NITROGEN, mg/L	0.2	0.4	0.3	0.8	0.1	0.2
TOTAL PHOSPHORUS, mg/L	0.04	0.05	0.02	0.02	0.02	0.05
ORTHO PHOSPHORUS, mg/L	0.01	0.02	0.01	0.01	0.01	
TOTAL COLIFORM, MPN	50	30	22	50	30	A
FECAL COLIFORM, MPN	<2	8	2	23	<2	A
TOTAL IRON, mg/L	0.19	0.16	0.04	0.05	0.10	
DISSOLVED OXYGEN, mg/L	7.0	7.4	7.7	7.4	7.6	
pH	9.1	8.3	8.0	8.0	7.9	7.7
ALKALINITY, mg/L	70	70	42	46	38	186
TEMPERATURE, Degrees C First Sample	20	19	15	16	15	
TEMPERATURE, Degrees C Second Sample	20	18	16	17	17	
DISSOLVED ORGANIC CARBON, mg/L	2.0	1.8	0.7	0.7	0.9	1.6
CHLORIDE, mg/L	2.0	9.5	2.0	3.5	2.5	96
TOTAL DISSOLVED SOLIDS, mg/L	99	121	63	72	66	390
TURBIDITY, NTU	2.0	1.9	1.0	1.0	1.4	
UN-IONIZED AMMONIA, mg/L						
TRIHALOMETHANES, ppb						
BORON, mg/L (not to exceed 1.0)						
SULFATE, mg/L (not to exceed 5)						

Represents a Monthly Sample
and
Represents a Quarterly Sample

SURFACE WATER MONITORING - JUNE, 2000

DATE OF FIRST SAMPLE 1 June 2000

DATE OF SECOND SAMPLE 15 June 2000

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.01	0.09	0.01	0.02	<0.01	0.01
NITRATE - Second Sample, mg/L	0.05	0.09	0.01	0.02	<0.01	
TOTAL KJELDAHL NITROGEN, mg/L	0.2	0.4	0.2	0.3	0.3	0.3
TOTAL PHOSPHORUS, mg/L	0.03	0.04	0.02	0.02	0.02	0.08
ORTHO PHOSPHORUS, mg/L	0.01	0.02	0.01	0.01	0.01	
TOTAL COLIFORM, MPN	8	7	300	30	11	A
FECAL COLIFORM, MPN	2	<2	240	<2	<2	A
TOTAL IRON, mg/L	0.38	0.24	0.25	0.35	0.20	
DISSOLVED OXYGEN, mg/L	8.1	8.8	12.3	11.4	11.0	
pH	8.1	8.0	7.6	7.8	7.9	7.6
ALKALINITY, mg/L	60	58	34	36	36	186
TEMPERATURE, Degrees C First Sample	16	16	10	11	10	
TEMPERATURE, Degrees C Second Sample	19	22	16	17	17	
DISSOLVED ORGANIC CARBON, mg/L	2.0	1.9	0.8	0.8	0.9	1.4
CHLORIDE, mg/L	2.5	7.4	2.0	4.0	2.0	97
TOTAL DISSOLVED SOLIDS, mg/L	81	99	47	54	54	388
TURBIDITY, NTU	2.4	2.1	2.1	2.2	1.6	
UN-IONIZED AMMONIA, mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	
TRIHALOMETHANES, ppb		ND		ND	ND	
BORON, mg/L (not to exceed 1.0)					<0.05	
SULFATE, mg/L (not to exceed 5)		2.8		2.5	2.2	

Represents a Monthly Sample
and
Represents a Quarterly Sample

Tahoe-Truckee Sanitation Agency

Benthic Invertebrates

June 2000	Sampling Location M-1	M-2	T-1	T-2	T-3
Date	6-15	6-15	6-15	6-15	6-15
Temperature Centigrade	19	14	16	17	17
Sampling Device	Surber	Surber	Surber	Surber	Surber

Below is the number of individuals found per sampling device, which is noted, in the lower row above. The Surber Sampler represents 929 cm2 while the Hester Dendy sampler represents 1238 cm2.

Insecta					
Coleoptera (beetles)					
Diptera (true flies)		72	5	4	11
Ephemoptera (mayflies)	33	10	6	12	7
Plecoptera (stoneflies)		4	3	5	2
Tricoptera (caddisflies)	7	3	7	16	14
Mollusca					
Crustacea					
Platyhelminthes	3				
Annelida (Oligochaeta)	4	3	3	2	4
Arachnoidia		1			1
Total	47	93	24	39	39
Diversity	2.50	2.32	4.72	3.97	4.54

Notes:

Periphyton

Tahoe Truckee Sanitation Agency

Year June 20, 2000	M- 1	M-2	T-1	T-2	T-3
Date In/Out	6-6/6-20	6-6/6-20	6-6/6-20	6-6/6-20	6-6/6-20
Days of Exposure	14	14	14	14	14
Temperature In/Out C	8/18	8/21	11/16	11/17	11/16

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2	5.51	17.31	4.24	50.57	4.80
Grams ash free dry wt/m2	4.05	7.90	1.19	6.71	0.98
Percent volatile	73.5%	45.6%	28.1%	13.3%	20.4%

Relative Percentages

CHLOROPHYTA (Green algae)	20	30	10	5	
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE (Diatoms)	80	70	90	95	100
CYANOPHYTA (Blue green algae)					

Notes:

1. There appeared to be many grazing Dipterans on the sample substrate from location M-1.

Periphyton
Tahoe Truckee Sanitation Agency

Year June 6, 2000	M- 1	M-2	T-1	T-2	T-3
Date In/Out	5-23/6-6	5-23/6-6	5-23/6-6	5-23/6-6	5-23/6-6
Days of Exposure	14	14	14	14	14
Temperature In/Out C	6/8	8/8	9/11	11/11	11/11

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2	1.69	7. 36	1.	6.33	2.
Grams ash free dry wt/m2	0.83	0.97		1.17	
Percent volatile	49.1	43.1		18.5%	

Relative Percentages

CHLOROPHYTA (Green algae)				5	
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE (Diatoms)	100	100	100	95	
CYANOPHYTA (Blue green algae)					

Notes:

1. The sampler at location T-1 had lost 6 out of 8 substrate slides. The slide holder will be replaced.
2. The sampler at location T-3 had been vandalized and was missing from the sample location.

SURFACE WATER MONITORING - APRIL, 2000

DATE OF FIRST SAMPLE 3 April 2000

DATE OF SECOND SAMPLE 17 April 2000

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.01	0.17	0.03	0.10	0.03	0.02
NITRATE - Second Sample, mg/L	0.02	0.10	0.03	0.06	0.03	
TOTAL KJELDAHL NITROGEN, mg/L	0.1	0.4	0.2	0.6	0.3	0.2
TOTAL PHOSPHORUS, mg/L	0.03	0.04	0.02	0.02	0.03	0.07
ORTHO PHOSPHORUS, mg/L	0.01	0.02	0.01	0.01	0.01	
TOTAL COLIFORM, MPN	2	17	14	14	7	A
FECAL COLIFORM, MPN	2	<2	<2	<2	<2	
TOTAL IRON, mg/L	0.32	0.35	0.16	0.20	0.26	
DISSOLVED OXYGEN, mg/L	10.3	9.6	10.8	10.7	10.1	
pH	8.0	7.8	7.9	7.9	8.1	7.8
ALKALINITY, mg/L	48	50	34	40	38	194
TEMPERATURE, Degrees C First Sample	8	10	6	7	7	
TEMPERATURE, Degrees C Second Sample	8	8	6	6	6	
DISSOLVED ORGANIC CARBON, mg/L	2.7	2.7	1.4	1.6	1.6	1.5
CHLORIDE, mg/L	3.4	5.4	4.4	5.9	3.4	98
TOTAL DISSOLVED SOLIDS, mg/L	67	74	49	58	53	387
TURBIDITY, NTU	3.9	4.0	1.5	2.0	2.3	
UN-IONIZED AMMONIA, mg/L						
TRIHALOMETHANES, ppb						
BORON, mg/L (not to exceed 1.0)						
SULFATE, mg/L (not to exceed 5)						

Represents a Monthly Sample
and
Represents a Quarterly Sample

Laboratory Analysis Report

Sierra Environmental Monitoring, Inc.

Tahoe Truckee Sanitation Agency
Attn: Don McKechnie
13720 Joerger Dr.
Truckee, CA 96160

Date: 4/13/2000
Client: TTS-001
Taken by: Client
Report: 34385
PO #: 11322

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200004-0127	Final Effluent	4/2/2000		4/4/2000

Parameter	Method	Result	Units Of Measure	Detection Limit	Analyst	Date Analyzed
Magnesium - ICP-OES	EPA 200.7	5	mg/L	0.1	Faulstich	4/10/2000
Total Recoverable Metals - Acid	EPA 200.2	Completed			Kleinworth	4/6/2000
Arsenic - ICP-MS	EPA 200.8	< 0.005	mg/L	0.005	Lambert	4/7/2000
Barium - ICP-MS	EPA 200.8	< 0.005	mg/L	0.005	Lambert	4/7/2000
Boron - ICP-OES	EPA 200.7	0.18	mg/L	0.05	Faulstich	4/11/2000
Cadmium - ICP-MS	EPA 200.8	< 0.005	mg/L	0.005	Lambert	4/7/2000
Chromium - ICP-MS	EPA 200.8	< 0.005	mg/L	0.005	Lambert	4/7/2000
Silver - ICP-MS	EPA 200.8	< 0.005	mg/L	0.005	Lambert	4/7/2000
Copper - ICP-MS	EPA 200.8	< 0.005	mg/L	0.005	Lambert	4/7/2000
Lead - ICP-MS	EPA 200.8	< 0.005	mg/L	0.005	Lambert	4/7/2000
Manganese - ICP-MS	EPA 200.8	0.009	mg/L	0.001	Lambert	4/7/2000
Nickel - ICP-MS	EPA 200.8	< 0.005	mg/L	0.005	Lambert	4/7/2000
Selenium - ICP-MS	EPA 200.8	< 0.005	mg/L	0.005	Lambert	4/7/2000
Strontium - ICP-OES	EPA 200.7	<0.05	mg/L	0.05	Faulstich	4/6/2000
Zinc - ICP-MS	EPA 200.8	< 0.05	mg/L	0.05	Lambert	4/7/2000

Approved By: _____ **Date:** 4-13-00
Sierra Environmental Monitoring, Inc

This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.

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Alpha Analytical,
255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Don McKechnie

Alpha Analytical Number: TTS00040425-01A
Client I.D. Number: Well 24

Sampled: 04/03/00
Received: 04/04/00
Analyzed: 04/05/00

Volatile Organics by GC/MS
EPA Method 624/SW8260B

	Compound	Concentration µg/L	Reporting Limit
1	Chloromethane	ND	2.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L
4	Bromomethane	ND	1.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L
7	Dichloromethane	ND	2.0 µg/L
8	trans-1,2-Dichloroethene	ND	1.0 µg/L
9	1,1-Dichloroethane	ND	1.0 µg/L
10	cis-1,2-Dichloroethene	ND	1.0 µg/L
11	Chloroform	ND	1.0 µg/L
12	1,2-Dichloroethane	ND	1.0 µg/L
13	1,1,1-Trichloroethane	ND	1.0 µg/L
14	Carbon tetrachloride	ND	1.0 µg/L
15	Benzene	ND	0.50 µg/L
16	1,2-Dichloropropane	ND	1.0 µg/L
17	Trichloroethene	ND	1.0 µg/L
18	Bromodichloromethane	ND	1.0 µg/L
19	2-Chloroethylvinylether	ND	2.0 µg/L
20	cis-1,3-Dichloropropene	ND	1.0 µg/L
21	trans-1,3-Dichloropropene	ND	1.0 µg/L
22	1,1,2-Trichloroethane	ND	1.0 µg/L
23	Toluene	ND	0.50 µg/L
24	Dibromochloromethane	ND	1.0 µg/L
25	Tetrachloroethene	ND	1.0 µg/L
26	Chlorobenzene	ND	1.0 µg/L
27	Ethylbenzene	ND	0.50 µg/L
28	m,p-Xylene	ND	0.50 µg/L
29	Bromoform	ND	1.0 µg/L
30	o-Xylene	ND	0.50 µg/L
31	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
32	1,3-Dichlorobenzene	ND	1.0 µg/L
33	1,4-Dichlorobenzene	ND	1.0 µg/L
34	1,2-Dichlorobenzene	ND	1.0 µg/L

ND = Not Detected

Approved By: R Scholl Date: 4/14/00

Roger L. Scholl, Ph.D.
Laboratory Director

Alpha Analytical,
255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Don McKechnie

Alpha Analytical Number: TTS00040425-02A
Client I.D. Number: Well 20

Sampled: 04/03/00
Received: 04/04/00
Analyzed: 04/05/00

Volatile Organics by GC/MS
EPA Method 624/SW8260B

	Compound	Concentration µg/L	Reporting Limit		Compound	Concentration µg/L	Reporting Limit
1	Chloromethane	ND	2.0 µg/L	25	Tetrachloroethene	ND	1.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L	26	Chlorobenzene	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L	27	Ethylbenzene	ND	0.50 µg/L
4	Bromomethane	ND	1.0 µg/L	28	m,p-Xylene	ND	0.50 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L	29	Bromoform	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L	30	o-Xylene	ND	0.50 µg/L
7	Dichloromethane	ND	2.0 µg/L	31	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8	trans-1,2-Dichloroethene	ND	1.0 µg/L	32	1,3-Dichlorobenzene	ND	1.0 µg/L
9	1,1-Dichloroethane	ND	1.0 µg/L	33	1,4-Dichlorobenzene	ND	1.0 µg/L
10	cis-1,2-Dichloroethene	ND	1.0 µg/L	34	1,2-Dichlorobenzene	ND	1.0 µg/L
11	Chloroform	ND	1.0 µg/L				
12	1,2-Dichloroethane	ND	1.0 µg/L				
13	1,1,1-Trichloroethane	ND	1.0 µg/L				
14	Carbon tetrachloride	ND	1.0 µg/L				
15	Benzene	ND	0.50 µg/L				
16	1,2-Dichloropropane	ND	1.0 µg/L				
17	Trichloroethene	ND	1.0 µg/L				
18	Bromodichloromethane	ND	1.0 µg/L				
19	2-Chloroethylvinylether	ND	2.0 µg/L				
20	cis-1,3-Dichloropropene	ND	1.0 µg/L				
21	trans-1,3-Dichloropropene	ND	1.0 µg/L				
22	1,1,2-Trichloroethane	ND	1.0 µg/L				
23	Toluene	ND	0.50 µg/L				
24	Dibromochloromethane	ND	1.0 µg/L				

ND = Not Detected

Approved By: R Scholl Date: 4/14/00

Roger L. Scholl, Ph.D.
Laboratory Director

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255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
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Tahoe-Truckee Sanitation Agency

ANALYTICAL REPORT

Tahoe Truckee Sanitation District
13720 Joerger Dr.
Truckee, CA 96161

Job#:
Phone: (530) 587-2525
Attn: Don McKechnie

Volatile Organic Compounds (VOCs) EPA Method 8260B

		Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	**Well 1**					
Lab ID :	TTS00040425-03A	Chloroform	1.0	1.0 µg/L	04/03/00	04/05/00
		Bromodichloromethane	ND	1.0 µg/L	04/03/00	04/05/00
		Dibromochloromethane	ND	1.0 µg/L	04/03/00	04/05/00
		Bromoform	ND	1.0 µg/L	04/03/00	04/05/00
		Total Trihalomethanes	1.0	1.0 µg/L	04/03/00	04/05/00
Client ID :	**Well 23**					
Lab ID :	TTS00040425-04A	Chloroform	ND	1.0 µg/L	04/03/00	04/05/00
		Bromodichloromethane	ND	1.0 µg/L	04/03/00	04/05/00
		Dibromochloromethane	ND	1.0 µg/L	04/03/00	04/05/00
		Bromoform	ND	1.0 µg/L	04/03/00	04/05/00
		Total Trihalomethanes	ND	1.0 µg/L	04/03/00	04/05/00
Client ID :	**Well 22**					
Lab ID :	TTS00040425-05A	Chloroform	ND	1.0 µg/L	04/03/00	04/05/00
		Bromodichloromethane	ND	1.0 µg/L	04/03/00	04/05/00
		Dibromochloromethane	ND	1.0 µg/L	04/03/00	04/05/00
		Bromoform	ND	1.0 µg/L	04/03/00	04/05/00
		Total Trihalomethanes	ND	1.0 µg/L	04/03/00	04/05/00

ND = Not Detected

Approved By: R Scholl Date: 4/14/00

Roger L. Scholl, Ph.D.
Laboratory Director

SURFACE WATER MONITORING - MARCH, 2000

DATE OF FIRST SAMPLE 1 March 2000

DATE OF SECOND SAMPLE 15 March 2000

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.07	0.31	0.03	0.15	0.11	<0.01
NITRATE - Second Sample, mg/L	0.02	0.20	0.02	0.10	0.06	
TOTAL KJELDAHL NITROGEN, mg/L	<0.1	0.2	0.7	0.3	0.2	0.2
TOTAL PHOSPHORUS, mg/L	0.04	0.04	0.02	0.03	0.03	0.07
ORTHO PHOSPHORUS, mg/L	0.02	0.02	0.01	0.01	0.02	
TOTAL COLIFORM, MPN	40	900	7	30	14	A
FECAL COLIFORM, MPN	<2	<2	<2	<2	2	A
TOTAL IRON, mg/L	0.53	0.51	0.10	0.15	0.19	
DISSOLVED OXYGEN, mg/L	12.0	13.0	13.0	11.4	11.7	
pH	7.7	7.8	7.8	7.7	7.8	7.7
ALKALINITY, mg/L	44	48	42	42	48	190
TEMPERATURE, Degrees C First Sample	3	4	2	3	3	
TEMPERATURE, Degrees C Second Sample	6	8	8	9	8	
DISSOLVED ORGANIC CARBON, mg/L	2.9	2.6	0.9	1.1	1.1	1.4
CHLORIDE, mg/L	5.0	7.4	7.4	8.9	8.9	101
TOTAL DISSOLVED SOLIDS, mg/L	82	93	64	78	77	399
TURBIDITY, NTU	6.4	6.4	1.2	2.0	2.4	
UN-IONIZED AMMONIA, mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	
TRIHALOMETHANES, ppb		ND		ND	ND	
BORON, mg/L (not to exceed 1.0)					<0.05	
SULFATE, mg/L (not to exceed 5)		3.9		4.1	4.5	

Represents a Monthly Sample
and
Represents a Quarterly Sample

SURFACE WATER MONITORING - FEBRUARY, 2000

DATE OF FIRST SAMPLE 1 February 2000

DATE OF SECOND SAMPLE 14 February 2000

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.17	0.39	0.06	0.11	0.22	<0.01
NITRATE - Second Sample, mg/L	0.06	0.18	0.11	0.16	0.14	
TOTAL KJELDAHL NITROGEN, mg/L	0.2	0.4	0.2	0.2	0.1	0.1
TOTAL PHOSPHORUS, mg/L	0.06	0.05	0.03	0.03	0.03	0.08
ORTHO PHOSPHORUS, mg/L	0.03	0.03	0.01	0.01	0.01	
TOTAL COLIFORM, MPN	500	300	30	7	7	A
FECAL COLIFORM, MPN	4	<2	4	<2	<2	A
TOTAL IRON, mg/L	0.49	0.45	0.12	0.13	0.14	
DISSOLVED OXYGEN, mg/L	10.5	10.8	11.2	10.7	11.0	
pH	7.7	7.8	7.8	7.9	7.7	7.6
ALKALINITY, mg/L	46	52	40	44	46	192
TEMPERATURE, Degrees C First Sample	3	4	3	5	5	
TEMPERATURE, Degrees C Second Sample	4	3	2	2	3	
DISSOLVED ORGANIC CARBON, mg/L	3.6	3.4	0.9	1.3	1.2	1.5
CHLORIDE, mg/L	4.4	8.3	6.8	5.8	9.7	100
TOTAL DISSOLVED SOLIDS, mg/L	76	91	63	69	80	392
TURBIDITY, NTU	7.2	6.7	1.6	2.8	2.4	
UN-IONIZED AMMONIA, mg/L						
TRIHALOMETHANES, ppb						
BORON, mg/L (not to exceed 1.0)						
SULFATE, mg/L (not to exceed 5)						

Represents a Monthly Sample
and
Represents a Quarterly Sample

SURFACE WATER MONITORING - JANUARY, 2000

DATE OF FIRST SAMPLE 3 January 2000

DATE OF SECOND SAMPLE 13 January 2000

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	<0.01	0.2	0.02	0.07	0.03	0.01
NITRATE - Second Sample, mg/L	0.01	0.22	0.01	0.08	0.05	
TOTAL KJELDAHL NITROGEN, mg/L	0.2	0.3	0.7	0.4	0.2	0.2
TOTAL PHOSPHORUS, mg/L	0.05	0.05	0.02	0.02	0.02	0.07
ORTHO PHOSPHORUS, mg/L	0.02	0.02	0.01	0.02	0.01	
TOTAL COLIFORM, MPN	7	4	7	8	8	A
FECAL COLIFORM, MPN	2	<2	<2	<2	2	A
TOTAL IRON, mg/L	0.27	0.22	0.04	0.06	0.09	
DISSOLVED OXYGEN, mg/L	10.8	11.4	12.0	11.9	12.2	
pH	8.1	8.0	7.9	7.8	7.9	7.8
ALKALINITY, mg/L	72	72	46	54	44	166
TEMPERATURE, Degrees C First Sample	4	4	1	2	2	
TEMPERATURE, Degrees C Second Sample	4	4	4	4	5	
DISSOLVED ORGANIC CARBON, mg/L	0.9	0.9	0.4	0.4	0.9	1.3
CHLORIDE, mg/L	2.9	7.3	3.4	8.3	4.4	99
TOTAL DISSOLVED SOLIDS, mg/L	107	119	72	85	74	403
TURBIDITY, NTU	2.4	2.5	0.8	1.4	1.5	
UN-IONIZED AMMONIA, mg/L						
TRIHALOMETHANES, ppb						
BORON, mg/L (not to exceed 1.0)						
SULFATE, mg/L (not to exceed 5)						

Represents a Monthly Sample
and
Represents a Quarterly Sample

[redacted]

SURFACE WATER MONITORING - JULY, 2003

DATE OF FIRST SAMPLE 1 July 2003

DATE OF SECOND SAMPLE 17 July 2003

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.03	0.07	<0.01	0.01	0.01	0.38
NITRATE - Second Sample, mg/L	0.06	0.12	<0.01	0.02	<0.01	
TOTAL KJELDAHL NITROGEN, mg/L	0.2	0.2	0.2	<0.1	0.1	<0.1
TOTAL PHOSPHORUS, mg/L	0.02	0.03	0.02	0.02	0.03	0.09
ORTHO PHOSPHORUS, mg/L	0.01	0.01	<0.01	<0.01	<0.01	0.08
TOTAL COLIFORM, MPN	22	130	8	14	14	A
FECAL COLIFORM, MPN	<2	22	<2	<2	2	A
TOTAL IRON, mg/L	0.22	0.26	0.39	0.26	0.62	0.05
DISSOLVED OXYGEN, mg/L	8.0	8.0	9.8	9.1	9.1	
pH	8.7	8.2	8.0	7.7	7.8	8.0
ALKALINITY, mg/L	44	52	24	26	26	70
TEMPERATURE, Degrees C First Sample	19	20	10	12	12	
TEMPERATURE, Degrees C Second Sample	20	17	13	14	15	
DISSOLVED ORGANIC CARBON, mg/L	2.64	2.58	1.43	1.44	1.48	0.05
CHLORIDE, mg/L	2.12	8.69	2.45	4.22	3.39	9.16
TOTAL DISSOLVED SOLIDS, mg/L	94	111	60	69	64	134
TURBIDITY, NTU	1.5	2.0	2.4	2.9	5.0	
UN-IONIZED AMMONIA, mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	
TRIHALOMETHANES, ppb		ND		ND	ND	
BORON, mg/L (not to exceed 1.0)					<0.05	
SULFATE, mg/L (not to exceed 5)		2.04		1.83	1.93	

Represents a Monthly Sample
and
Represents a Quarterly Sample

Tahoe-Truckee Sanitation Agency

Periphyton

09-Jun-03

Location	M-1	M-2	T-1	T-2	T-3
Date (in/out)	5-28/6-9	5-28/6-9	5-14/6-9	5-14/6-9	5-28/6-9
Days of Exposure	12	12	26	26	12
Temperature (in/out) C	18/19	20/20	7/11	10/13	12/14

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device anchored to the stream bottom and allowed to colonize for 10 to 26 days.

grams/m^2 (dry wt.)	0.8763	2.3965	6.8885	13.3274	11.9634
grams/m^2 (ash free dry wt.)	0.545	0.7315	2.8956	7.2619	1.0897
Percent Volatile	62.17	30.52	42.04	54.49	9.11

Relative Percentages

Chlorophyta (green algae)	90	40	20	30	50
Chrysophyta (golden brown algae)					
Bacillariophyceae (diatoms)	10	60	80	70	50
Cyanophyta (blue green algae)					

Notes: 1. T-3 sample was very gritty

2. T-1 and T-2 days of exposure are different due to high flows/access problems in late May.

Tahoe-Truckee Sanitation Agency

Periphyton

25-Jun-03

Location	M-1	M-2	T-1	T-2	T-3
Date (in/out)	6-9/6-25	6-9/6-25	6-9/6-25	6-9/6-25	6-9/6-25
Days of Exposure	16	16	16	16	16
Temperature (in/out) C	19/18	20/20	11/14	13/17	14/16

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device anchored to the stream bottom and allowed to colonize for 10 to 26 days.

grams/m^2 (dry wt.)	1.5621	13.5636	6.1805	9.0411	31.7482
grams/m^2 (ash free dry wt.)	0.720	3.5966	1.1122	2.065	4.5155
Percent Volatile	46.10	26.52	18.00	22.84	14.22

Relative Percentages

Chlorophyta (green algae)	90	50	40	30	40
Chrysophyta (golden brown algae)					
Bacillariophyceae (diatoms)	10	50	60	70	60
Cyanophyta (blue green algae)					

Notes:

Tahoe-Truckee Sanitation Agency

Benthic Invertebrates

Location	M-1	M-2	T-1	T-2	T-3
Date	06/25/2003	06/25/2003	06/25/2003	06/25/2003	06/25/2003
Temperature (^{0}C)	18	20	14	17	16
Sampling Device	Surber	Surber	Surber	Surber	Surber

Below is listed the number of individuals found per sampling device. The Surber sampler represents 929 cm 2 while the Hester Dendy sampler represents 1238 cm 2.

Insecta	M-1	M-2	T-1	T-2	T-3
Coleoptera (beetles)	3	12			
Diptera (true flies)	5	1			
Ephemeroptera (mayflies)	6	5	6	7	4
Plecoptera (stoneflies)			5	6	
Trichoptera (caddisflies)	3	2	5	5	8
Megaloptera (hellgrammites)			1		
Nematoda	3	4	2	9	9
Mollusca	2				
Crustacea	2	4	1	1	
Platyhelminthes	2				
Annelida (Oligochaeta)		5	3	5	
Arachnoidia	2		1	1	4

Total	28	33	24	34	25
Diversity	8.24	5.62	6.45	5.78	3.74

Notes:

LOW FREQUENCY REPORT ON THE FINAL EFFLUENT - 2003

MONTH	SAMPLE DATE	IRON mg/L	PHENOL ug/L	SULFATE mg/L	TFR mg/L	SODIUM mg/L	CALCIUM mg/L	THM ug/L	METALS *
		M	Q	Q	Q	Q	Q	Q	A
JAN	01/13/03	0.12							
FEB	02/06/03	0.09							
MAR	03/03/03		ND			120		11.0	
MAR	03/05/03	0.12					18.8		
MAR	03/09/03			16.6	437				
APR	04/09/03	0.06							
MAY	05/20/03	0.08							
JUN	06/04/03		ND			130		10.0	
JUN	06/06/03			15.2					
JUN	06/08/03				392				
JUN	06/15/03						18.8		
JUN	06/26/03	0.10							
JUL									
AUG									
SEP									
SEP									
SEP									
SEP									
OCT									
NOV									
DEC									
DEC									
DEC									
DEC									
DEC									

Represents a Monthly Analysis
Represents a Quarterly Analysis
Represents an Annual Analysis

Notes: * See separate report from reference laboratory.

WELL 31 MONITORING RESULTS - JUNE, 2003

Date of Collection	02-Jun	09-Jun	16-Jun	23-Jun	30-Jun
STATIC WELL LEVEL - W	5672.98	5672.72	5672.43	5672.17	5671.92
CHEMICAL OXYGEN DEMAND - W	<11	<11	<11	<11	<11
TOTAL ORGANIC CARBON - W	1.50	1.54	1.63	1.67	1.11
TOTAL DISSOLVED SOLIDS - W	400	391	410	388	403
TEMPERATURE - DEGREES C - W	12	14	14	13	14
CHLORINE RESIDUAL - W	<0.05	<0.05	<0.05	<0.05	<0.05
CHLORIDE - W	109	109	108	107	106
TOTAL PHOSPHORUS - W	0.08	0.08	0.08	0.08	0.07
AMMONIA NITROGEN - W	<0.1	<0.1	<0.1	<0.1	<0.1
UN-IONIZED AMMONIA - W	<0.1	<0.1	<0.1	<0.1	<0.1
TOTAL KJELDAHL NITROGEN - W	0.4	0.4	0.3	0.2	0.4
NITRATE - W	0.40	0.40	0.34	0.25	0.20
DISSOLVED OXYGEN - W	1.60	3.09	2.40	2.12	1.82
pH - W	7.0	7.4	7.1	6.8	6.8
ALKALINITY - W	166	160	162	168	170
MPN - FECAL - W	<2	<2	<2	<2	<2
PURGABLE HALOCARBONS / PURGABLE AROMATICS (APR) EPA Method 624 - upon request					
TRIHALOMETHANES (JUN) EPA Method SW8260B	ND	-	-	-	

TAHOE - TRUCKEE SANITATION AGENCY _ TRUCKEE CALIFORNIA
C. F. WOODS - GENERAL MANAGER

WELL SUMMARY - June 4, 2003

WELL	DATE	SWL	TOC MG/L	TOTAL PHOSPHORUS MG/L	AMMONIA MG/L - N	TOTAL KJELDAHL MG/L - N	NITRATE MG/L - N	TOTAL FILT- RES. MG/L	CHLORIDE MG/L	TEMP C	THM UG/L	pH	COLIFORMS TOTAL MPN/100 ML	COLIFORMS FECAL MPN/100 ML
20	6/4/2003	5714.5	3.0	0.02	<0.1	0.70	<0.01	407	112	13	ND	7.5		
99	6/4/2003	5709.6	3.3	0.14	<0.1	0.4	0.40	397	114	12	ND	7.5		
34	6/4/2003	5680.4	2.0	0.06	<0.1	0.3	0.55	401	109	13	ND	7.1		
36	6/4/2003	5691.1	1.7	0.08	<0.1	0.1	1.09	414	112	14	ND	7.1		
25	6/4/2003	5702.1	2.1	0.13	<0.1	0.1	0.01	379	109	14	ND	7.3		

WELL	DATE	SWL	ALKALINITY MG/L	UN-IONIZED AMMONIA MG/L	PURGEABLE Halocarbons & Aromatics
20	6/4/2003	5714.5	176	<0.1	
99	6/4/2003	5709.6	154	<0.1	
34	6/4/2003	5680.4	164	<0.1	
36	6/4/2003	5691.1	170	<0.1	
25	6/4/2003	5702.1	150	<0.1	

SURFACE WATER MONITORING - JUNE, 2003

DATE OF FIRST SAMPLE 4 June 2003

DATE OF SECOND SAMPLE 17 June 2003

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.03	0.07	<0.01	0.01	0.01	0.38
NITRATE - Second Sample, mg/L	0.06	0.12	<0.01	0.02	<0.01	
TOTAL KJELDAHL NITROGEN, mg/L	0.2	0.2	0.2	<0.1	0.1	<0.1
TOTAL PHOSPHORUS, mg/L	0.02	0.03	0.02	0.02	0.03	0.09
ORTHO PHOSPHORUS, mg/L	0.01	0.01	<0.01	<0.01	<0.01	0.08
TOTAL COLIFORM, MPN	22	130	8	14	14	A
FECAL COLIFORM, MPN	<2	22	<2	<2	2	A
TOTAL IRON, mg/L	0.22	0.26	0.39	0.26	0.62	0.05
DISSOLVED OXYGEN, mg/L	8.0	8.0	9.8	9.1	9.1	
pH	8.7	8.2	8.0	7.7	7.8	8.0
ALKALINITY, mg/L	44	52	24	26	26	70
TEMPERATURE, Degrees C First Sample	19	20	10	12	12	
TEMPERATURE, Degrees C Second Sample	20	17	13	14	15	
DISSOLVED ORGANIC CARBON, mg/L	2.64	2.58	1.43	1.44	1.48	0.05
CHLORIDE, mg/L	2.12	8.69	2.45	4.22	3.39	9.16
TOTAL DISSOLVED SOLIDS, mg/L	94	111	60	69	64	134
TURBIDITY, NTU	1.5	2.0	2.4	2.9	5.0	
UN-IONIZED AMMONIA, mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	
TRIHALOMETHANES, ppb		ND		ND	ND	
BORON, mg/L (not to exceed 1.0)					<0.05	
SULFATE, mg/L (not to exceed 5)		2.04		1.83	1.93	

Represents a Monthly Sample
and
Represents a Quarterly Sample

[redacted]

SURFACE WATER MONITORING - MAY, 2003

DATE OF FIRST SAMPLE 6 May 2003

DATE OF SECOND SAMPLE 20 May 2003

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.04	0.01	0.01	0.02	<0.01	0.42
NITRATE - Second Sample, mg/L	0.01	0.04	0.02	0.02	0.01	
TOTAL KJELDAHL NITROGEN, mg/L	0.3	0.3	0.2	0.2	0.2	0.1
TOTAL PHOSPHORUS, mg/L	0.03	0.03	0.01	0.01	0.02	0.06
ORTHO PHOSPHORUS, mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	0.06
TOTAL COLIFORM, MPN	30	<2	23	11	7	A
FECAL COLIFORM, MPN	4	<2	<2	<2	<2	A
TOTAL IRON, mg/L	0.22	0.25	0.11	0.13	0.26	0.02
DISSOLVED OXYGEN, mg/L	9.9	9.2	11.5	10.6	10.8	
pH	7.5	7.9	7.9	7.9	8.1	7.3
ALKALINITY, mg/L	46	46	38	40	40	60
TEMPERATURE, Degrees C First Sample	11	12	8	9	9	
TEMPERATURE, Degrees C Second Sample	14	15	10	11	11	
DISSOLVED ORGANIC CARBON, mg/L	2.40	2.44	1.26	1.42	1.58	0.16
CHLORIDE, mg/L	8.2	5.4	4.5	7.1	4.5	7.9
TOTAL DISSOLVED SOLIDS, mg/L	87	73	63	80	67	111
TURBIDITY, NTU	3.4	2.8	1.3	1.2	1.9	
UN-IONIZED AMMONIA, mg/L						
TRIHALOMETHANES, ppb						
BORON, mg/L (not to exceed 1.0)						
SULFATE, mg/L (not to exceed 5)						

Represents a Monthly Sample
and
Represents a Quarterly Sample

Tahoe-Truckee Sanitation Agency

Periphyton

14-May-03

Location	M-1	M-2	T-1	T-2	T-3
Date (in/out)	5-01/5-14	5-01/5-14	5-01/5-14	5-01/5-14	5-01/5-14
Days of Exposure	13	13	13	13	13
Temperature (in/out) C	10/12	10/13	7/7	9/10	9/12

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device anchored to the stream bottom and allowed to colonize for 10 to 26 days.

grams/m^2 (dry wt.)	0.0953	0.8153	0.762	2.507	5.1397
grams/m^2 (ash free dry wt.)	0.050	0.6706	0.4343	1.2916	1.4668
Percent Volatile	52.00	82.25	56.99	51.52	28.54

Relative Percentages

Chlorophyta (green algae)	90	80	50	70	50
Chrysophyta (golden brown algae)					
Bacillariophyceae (diatoms)	10	20	50	30	50
Cyanophyta (blue green algae)					

Notes: 1.

Tahoe-Truckee Sanitation Agency

Periphyton

28-May-03

Location	M-1	M-2	T-1	T-2	T-3
Date (in/out)	5-14/5-28	5-14/5-28	* 1	* 2	5-14/5-28
Days of Exposure	14	14			14
Temperature (in/out) C	12/18	13/20			12/14

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device anchored to the stream bottom and allowed to colonize for 10 to 26 days.

grams/m^2 (dry wt.)	1.0516	2.7927	* 1	* 2	11.8453
grams/m^2 (ash free dry wt.)	0.758	1.3678			3.4633
Percent Volatile	72.10	48.98			29.24

Relative Percentages

Chlorophyta (green algae)	60	20	* 1	* 2	10
Chrysophyta (golden brown algae)					
Bacillariophyceae (diatoms)	40	80			90
Cyanophyta (blue green algae)					

Notes: 1. No data @ T-1, high flows - unsafe access

2. No data @ T-2, high flows - unsafe access

LOW FREQUENCY REPORT ON THE FINAL EFFLUENT - 2003

MONTH	SAMPLE DATE	IRON mg/L	PHENOL ug/L	SULFATE mg/L	TFR mg/L	SODIUM mg/L	CALCIUM mg/L	THM ug/L	METALS *
		M	Q	Q	Q	Q	Q	Q	A
JAN	01/13/03	0.12							
FEB	02/06/03	0.09							
MAR	03/03/03		ND			120		11.0	
MAR	03/05/03	0.12					18.8		
MAR	03/09/03			16.6	437				
APR	04/09/03	0.06							
MAY	05/20/03	0.08							
JUN									
JUN									
JUN									
JUN									
JUN									
JUL									
AUG									
SEP									
SEP									
SEP									
SEP									
OCT									
NOV									
DEC									
DEC									
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DEC									
DEC									

Represents a Monthly Analysis
Represents a Quarterly Analysis
[redacted]
Represents an Annual Analysis

Notes: * See separate report from reference laboratory.

WELL 31 MONITORING RESULTS - MAY, 2003

Date of Collection	05-May	12-May	19-May	26-May	
STATIC WELL LEVEL - W	5673.08	5672.98	5672.98	5672.90	
CHEMICAL OXYGEN DEMAND - W	<11	<11	<11	<11	
TOTAL ORGANIC CARBON - W	1.38	1.55	1.56	1.53	
TOTAL DISSOLVED SOLIDS - W	414	410	399	412	
TEMPERATURE - DEGREES C - W	12	13	14	12	
CHLORINE RESIDUAL - W	<0.05	<0.05	<0.05	<0.05	
CHLORIDE - W	113	112	110	111	
TOTAL PHOSPHORUS - W	0.09	0.10	0.08	0.08	
AMMONIA NITROGEN - W	<0.1	<0.1	<0.1	<0.1	
UN-IONIZED AMMONIA - W	<0.1	<0.1	<0.1	<0.1	
TOTAL KJELDAHL NITROGEN - W	0.4	0.3	0.2	0.4	
NITRATE - W	0.39	0.39	0.40	0.40	
DISSOLVED OXYGEN - W	2.40	1.47	3.04	1.70	
pH - W	6.7	6.8	7.1	6.8	
ALKALINITY - W	164	162	158	160	
MPN - FECAL - W	<2	<2	<2	<2	
PURGABLE HALOCARBONS / PURGABLE AROMATICS EPA Method 624 - ug/L					

TAHOE - TRUCKEE SANITATION AGENCY _ TRUCKEE CALIFORNIA
C. F. WOODS - GENERAL MANAGER

WELL SUMMARY - May 1, 2003

WELL	DATE	SWL	TOC MG/L	TOTAL PHOSPHORUS MG/L	AMMONIA MG/L - N	TOTAL KJELDAHL MG/L - N	NITRATE MG/L - N	TOTAL FILT- RES. MG/L	CHLORIDE MG/L	TEMP C	THM UG/L	pH	COLIFORMS TOTAL MPN/100 ML	COLIFORMS FECAL MPN/100 ML
20	5/1/2003	5715.3	2.6	0.03	0.40	1.10	<0.01	423	112	11		7.2		
99	5/1/2003	5710.1	2.8	0.14	<0.1	0.6	0.67	407	113	11		7.0		
34	5/1/2003	5680.7	1.8	0.11	<0.1	0.4	0.64	430	114	14		7.0		
36	5/1/2003	5691.3	1.5	0.08	<0.1	0.3	1.14	442	117	14		7.2		
25	5/1/2003	5703.1	1.9	0.12	<0.1	0.4	0.13	390	101	12		7.4		

WELL	DATE	SWL	ALKALINITY MG/L	UN-IONIZED AMMONIA MG/L	PURGEABLE Halocarbons & Aromatics
20	5/1/2003	5715.3	180	<0.1	
99	5/1/2003	5710.1	152	<0.1	
34	5/1/2003	5680.7	170	<0.1	
36	5/1/2003	5691.3	174	<0.1	
25	5/1/2003	5703.1	156	<0.1	

[redacted]

SURFACE WATER MONITORING - APRIL, 2003

DATE OF FIRST SAMPLE 1 April 2003

DATE OF SECOND SAMPLE 15 April 2003

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.01	0.05	0.03	0.05	<0.01	0.39
NITRATE - Second Sample, mg/L	0.01	0.04	0.02	0.04	0.02	
TOTAL KJELDAHL NITROGEN, mg/L	0.2	0.2	0.1	0.1	0.2	0.1
TOTAL PHOSPHORUS, mg/L	0.03	0.03	0.01	0.03	0.03	0.10
ORTHO PHOSPHORUS, mg/L	0.03	0.03	0.01	0.02	0.01	0.09
TOTAL COLIFORM, MPN	4	2	11	17	4	A
FECAL COLIFORM, MPN	<2	<2	<2	2	<2	A
TOTAL IRON, mg/L	0.30	0.37	0.26	0.22	0.32	
DISSOLVED OXYGEN, mg/L	11.6	10.7	12.6	11.0	10.7	
pH	7.8	7.8	7.9	7.7	7.8	7.9
ALKALINITY, mg/L	42	42	38	38	36	72
TEMPERATURE, Degrees C First Sample	9	9	5	6	7	
TEMPERATURE, Degrees C Second Sample	6	6	5	6	7	
DISSOLVED ORGANIC CARBON, mg/L	2.9	2.9	1.3	1.5	1.6	<0.1
CHLORIDE, mg/L	5.06	7.52	5.23	4.79	12.30	9.54
TOTAL DISSOLVED SOLIDS, mg/L	77	83	53	61	60	112
TURBIDITY, NTU	4.7	4.2	1.2	2.0	3.0	
UN-IONIZED AMMONIA, mg/L						
TRIHALOMETHANES, ppb						
BORON, mg/L (not to exceed 1.0)						
SULFATE, mg/L (not to exceed 5)						

Represents a Monthly Sample
and
Represents a Quarterly Sample

Sierra Environmental Monitoring, Inc.

Laboratory Analysis Report

Tahoe Truckee Sanitation Agency
Attn: Greg Schleusner
13720 Joerger Dr.
Truckee, CA 96160

Date: 4/16/2003
Client: TTS-001
Taken by: G. Schleusner
Report: 52608
PO #: 13585

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200304-0171	Final Eff	4/1/2003	8:00 AM	4/2/2003

Parameter	Method	Result	Units Of Measure	Detection Limit	Analyst	Date Analyzed
Magnesium - ICP-OES	EPA 200.7	5.3	mg/L	0.2	Layman	4/10/2003
Total Recoverable Metals - Acid	EPA 200.2	Completed			Kleinworth	4/3/2003
Arsenic - ICP-MS	EPA 200.8	0.003	mg/L	0.005	Tretten	4/14/2003
Barium - ICP-MS	EPA 200.8	<0.002	mg/L	0.005	Tretten	4/14/2003
Boron - ICP-OES	EPA 200.7	0.21	mg/L	0.05	Layman	4/4/2003
Cadmium - ICP-MS	EPA 200.8	<0.002	mg/L	0.005	Tretten	4/14/2003
Chromium - ICP-MS	EPA 200.8	<0.004	mg/L	0.01	Tretten	4/14/2003
Silver - ICP-MS	EPA 200.8	<0.002	mg/L	0.005	Tretten	4/14/2003
Copper - ICP-MS	EPA 200.8	0.003	mg/L	0.005	Tretten	4/14/2003
Lead - ICP-MS	EPA 200.8	<0.002	mg/L	0.005	Tretten	4/14/2003
Manganese - ICP-MS	EPA 200.8	0.019	mg/L	0.005	Tretten	4/14/2003
Nickel - ICP-MS	EPA 200.8	<0.002	mg/L	0.005	Tretten	4/14/2003
Selenium - ICP-MS	EPA 200.8	<0.006	mg/L	0.015	Tretten	4/14/2003
Strontium - ICP-OES	EPA 200.7	0.07	mg/L	0.05	Layman	4/10/2003
Zinc - ICP-MS	EPA 200.8	0.047	mg/L	0.05	Tretten	4/14/2003

Approved By: John Kobza
Sierra Environmental Monitoring, Inc

Date: 4/16/03

LOW FREQUENCY REPORT ON THE FINAL EFFLUENT - 2003

MONTH	SAMPLE DATE	IRON mg/L	PHENOL ug/L	SULFATE mg/L	TFR mg/L	SODIUM mg/L	CALCIUM mg/L	THM ug/L	METALS *
		M	Q	Q	Q	Q	Q	Q	A
JAN	01/13/03	0.12							
FEB	02/06/03	0.09							
MAR	03/03/03		ND			120		11.0	
MAR	03/05/03	0.12					18.8		
MAR	03/09/03			16.6	437				
APR	04/09/03	0.06							*
MAY									
JUN									
JUN									
JUN									
JUN									
JUN									
JUL									
AUG									
SEP									
SEP									
SEP									
SEP									
OCT									
NOV									
DEC									
DEC									
DEC									
DEC									
DEC									

Represents a Monthly Analysis
Represents a Quarterly Analysis
Represents a Semi-Annual Analysis
Represents an Annual Analysis

Notes: * See separate report from reference laboratory.

WELL 31 MONITORING RESULTS - APRIL, 2003

Date of Collection	07-Apr	14-Apr	21-Apr	28-Apr	
STATIC WELL LEVEL - W	5672.76	5672.76	5673.09	5673.05	
CHEMICAL OXYGEN DEMAND - W	<11	<11	<11	<11	
TOTAL ORGANIC CARBON - W	1.75	1.64	1.54	1.58	
TOTAL DISSOLVED SOLIDS - W	443	423	424	408	
TEMPERATURE - DEGREES C - W	13	13	12	12	
CHLORINE RESIDUAL - W	<0.05	<0.05	<0.05	<0.05	
CHLORIDE - W	121	115	115	112	
TOTAL PHOSPHORUS - W	0.07	0.08	0.08	0.08	
AMMONIA NITROGEN - W	<0.1	<0.1	<0.1	<0.1	
UN-IONIZED AMMONIA - W	<0.1	<0.1	<0.1	<0.1	
TOTAL KJELDAHL NITROGEN - W	0.3	0.3	0.3	0.3	
NITRATE - W	0.50	0.41	0.35	0.37	
DISSOLVED OXYGEN - W	4.10	2.98	3.68	2.38	
pH - W	6.8	6.9	7.0	6.7	
ALKALINITY - W	176	176	176	168	
MPN - FECAL - W	<2	<2	<2	<2	
PURGABLE HALOCARBONS / PURGABLE AROMATICS EPA Method 624 - ug/L	N.D.	-	-	-	

TAHOE - TRUCKEE SANITATION AGENCY _ TRUCKEE CALIFORNIA
C. F. WOODS - GENERAL MANAGER

WELL SUMMARY - April 1, 2003

WELL	DATE	SWL	TOC MG/L	TOTAL PHOSPHORUS MG/L	AMMONIA MG/L - N	TOTAL KJELDAHL MG/L - N	NITRATE MG/L - N	TOTAL FILT- RES. MG/L	CHLORIDE MG/L	TEMP C	THM UG/L	pH	COLIFORMS TOTAL MPN/100 ML	COLIFORMS FECAL MPN/100 ML
20	4/1/2003	5715.2	2.8	0.01	0.50	1.00	0.66	458	112	11		7.2	<2	<2
99	4/1/2003	5709.7	3.3	0.11	<0.1	0.6	0.59	402	120	10		7.1	2	<2
34	4/1/2003	5678.8	2.9	0.07	<0.1	0.4	1.40	454	120	13		7.1		
36	4/1/2003	5691.1	1.6	0.05	<0.1	0.3	0.05	462	119	12		7.0		
25	4/1/2003	5703.2	2.3	0.08	<0.1	0.4	0.99	435	110	12		7.6		

WELL	DATE	SWL	ALKALINITY MG/L	UN-IONIZED AMMONIA MG/L	PURGEABLE Halocarbons & Aromatics
20	4/1/2003	5715.2	188	<0.1	ND
99	4/1/2003	5709.7	168	<0.1	1.1
34	4/1/2003	5678.8	180	<0.1	
36	4/1/2003	5691.1	176	<0.1	
25	4/1/2003	5703.2	166	<0.1	

TAHOE - TRUCKEE SANITATION AGENCY _ TRUCKEE CALIFORNIA
C. F. WOODS - GENERAL MANAGER

WELL SUMMARY - ***April-03***

WELL	DATE	SWL	TOC MG/L	TOTAL PHOSPHORUS MG/L	TOTAL KJELDAHL MG/L - N	AMMONIA NH4 MG/L - N	AMMONIA UNIONIZED MG/L - N	NITRATE MG/L - N	TOTAL FILT- RES. MG/L	CHLORIDE MG/L	TEMP C	THM UG/L	pH	ALKA MG/L
1	4/1/2003	5721.7	4.2	0.12	1.2	0.6	<0.1	0.71	425	124	13	ND	7	168
23	4/1/2003	5706.2	3.5	0.08	0.6	<0.1	<0.1	0.21	426	120	11	1.1	7	168
26	4/1/2003	5702.8	0.3	0.09	0.8	0.2	<0.1	0.02	417	121	12	ND	7	168

	COLIFORMS		PURGEABLE	
	TOTAL	FECAL	Halocarbons	Aromatics
	MPN/100 ML			
1	<2	<2		
23	4	<2		
26	<2	<2		

SURFACE WATER MONITORING - FEBRUARY, 2002

DATE OF FIRST SAMPLE 4 February 2002

DATE OF SECOND SAMPLE 21 February 2002

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.06	0.33	0.03	0.17	0.10	0.41
NITRATE - Second Sample, mg/L	0.09	0.14	0.03	0.11	0.08	
TOTAL KJELDAHL NITROGEN, mg/L	0.2	0.3	0.4	0.4	0.4	0.1
TOTAL PHOSPHORUS, mg/L	0.03	0.05	0.04	0.07	0.16	0.40
ORTHO PHOSPHORUS, mg/L	0.01	0.02	<0.01	0.01	0.01	
TOTAL COLIFORM, MPN	17	17	7	8	8	A
FECAL COLIFORM, MPN	<2	<2	<2	<2	<2	A
TOTAL IRON, mg/L	0.22	0.19	0.07	0.09	0.27	
DISSOLVED OXYGEN, mg/L	12.4	11.3	14.0	12.0	11.6	
pH	7.9	7.9	7.8	7.8	7.9	8.0
ALKALINITY, mg/L	68	72	44	50	48	82
TEMPERATURE, Degrees C First Sample	3	2	0	2	2	
TEMPERATURE, Degrees C Second Sample	2	5	6	10	9	
DISSOLVED ORGANIC CARBON, mg/L	2.1	1.9	0.8	0.9	1.3	0.1
CHLORIDE, mg/L	5.9	18.0	6.9	13.0	6.9	6.9
TOTAL DISSOLVED SOLIDS, mg/L	110	129	76	96	80	124
TURBIDITY, NTU	2.2	1.8	0.6	0.8	1.7	
UN-IONIZED AMMONIA, mg/L						
TRIHALOMETHANES, ppb						
BORON, mg/L (not to exceed 1.0)						
SULFATE, mg/L (not to exceed 5)						

Represents a Monthly Sample
and
Represents a Quarterly Sample

SURFACE WATER MONITORING - JANUARY, 2002

DATE OF FIRST SAMPLE 7 January 2002

DATE OF SECOND SAMPLE 21 January 2002

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.06	0.18	0.05	0.09	0.09	0.30
NITRATE - Second Sample, mg/L	0.07	0.31	0.03	0.15	0.12	
TOTAL KJELDAHL NITROGEN, mg/L	0.2	0.7	1.2	1.2	1.3	0.1
TOTAL PHOSPHORUS, mg/L	0.03	0.04	0.02	0.02	0.03	0.10
ORTHO PHOSPHORUS, mg/L	0.02	0.01	<0.01	<0.01	<0.01	
TOTAL COLIFORM, MPN	240	300	170	130	130	A
FECAL COLIFORM, MPN	<2	2	<2	13	<2	A
TOTAL IRON, mg/L	0.31	0.32	0.18	0.17	0.27	
DISSOLVED OXYGEN, mg/L	12.3	11.9	12.2	10.7	12.1	
pH	7.6	7.7	8.0	7.9	7.8	8.0
ALKALINITY, mg/L	60	60	36	38	40	72
TEMPERATURE, Degrees C First Sample	3	3	3	5	4	
TEMPERATURE, Degrees C Second Sample	3	3	0	2	2	
DISSOLVED ORGANIC CARBON, mg/L	3.0	2.8	1.4	1.6	1.6	0.1
CHLORIDE, mg/L	8.9	15.2	6.9	9.7	9.7	10.2
TOTAL DISSOLVED SOLIDS, mg/L	103	116	61	75	78	113
TURBIDITY, NTU	4.7	4.6	1.4	1.6	2.8	
UN-IONIZED AMMONIA, mg/L						
TRIHALOMETHANES, ppb						
BORON, mg/L (not to exceed 1.0)						
SULFATE, mg/L (not to exceed 5)						

Represents a Monthly Sample
and
Represents a Quarterly Sample

SURFACE WATER MONITORING - DECEMBER, 2001

DATE OF FIRST SAMPLE 3 December 2001

DATE OF SECOND SAMPLE 18 December 2001

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.06	0.23	0.03	0.09	0.08	0.41
NITRATE - Second Sample, mg/L	0.06	0.33	0.01	0.07	0.06	
TOTAL KJELDAHL NITROGEN, mg/L	0.3	0.3	0.3	0.3	0.2	0.1
TOTAL PHOSPHORUS, mg/L	0.05	0.04	0.03	0.13	0.09	0.55
ORTHO PHOSPHORUS, mg/L	0.02	0.02	0.01	0.01	0.04	
TOTAL COLIFORM, MPN	80	70	170	110	27	A
FECAL COLIFORM, MPN	4	2	2	<2	<2	A
TOTAL IRON, mg/L	0.27	0.25	0.14	0.12	0.27	
DISSOLVED OXYGEN, mg/L	11.7	11.7	13.5	12.9	13.0	
pH	7.8	7.8	7.7	7.7	7.6	7.9
ALKALINITY, mg/L	70	74	42	46	44	72
TEMPERATURE, Degrees C First Sample	3	4	0	2	2	
TEMPERATURE, Degrees C Second Sample	2	4	0	2	1	
DISSOLVED ORGANIC CARBON, mg/L	3.5	3.2	1.0	1.3	1.3	0.2
CHLORIDE, mg/L	2.5	10.4	7.0	9.2	9.3	7.5
TOTAL DISSOLVED SOLIDS, mg/L	104	120	67	78	76	104
TURBIDITY, NTU	4.6	3.6	1.2	1.3	3.3	
UN-IONIZED AMMONIA, mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	
TRIHALOMETHANES, ppb		ND		ND	ND	
BORON, mg/L (not to exceed 1.0)					<0.05	
SULFATE, mg/L (not to exceed 5)		5.0		5.8	4.9	

Represents a Monthly Sample
and
Represents a Quarterly Sample

SURFACE WATER MONITORING - NOVEMBER, 2001

DATE OF FIRST SAMPLE 5 November 2001

DATE OF SECOND SAMPLE 19 November 2001

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER *
NITRATE - First Sample, mg/L	0.06	0.24	<0.01	0.04	0.01	0.36
NITRATE - Second Sample, mg/L	0.08	0.29	<0.01	0.06	0.01	
TOTAL KJELDAHL NITROGEN, mg/L	0.2	0.2	0.2	0.2	<0.1	<0.1
TOTAL PHOSPHORUS, mg/L	0.03	0.04	0.01	0.01	0.02	0.11
ORTHO PHOSPHORUS, mg/L	0.01	0.01	<0.01	<0.01	0.01	0.09
TOTAL COLIFORM, MPN	<2	4	4	8	23	A
FECAL COLIFORM, MPN	<2	<2	<2	<2	<2	A
TOTAL IRON, mg/L	0.16	0.11	0.03	0.04	0.13	0.04
DISSOLVED OXYGEN, mg/L	10.5	10.6	9.6	9.8	10.0	
pH	9.2	8.9	8.1	8.0	7.7	8.0
ALKALINITY, mg/L	78	80	50	56	52	84
TEMPERATURE, Degrees C First Sample	10	11	12	11	10	
TEMPERATURE, Degrees C Second Sample	8	7	7	8	7	
DISSOLVED ORGANIC CARBON, mg/L	2.8	3.1	1.6	1.2	1.8	0.1
CHLORIDE, mg/L	1.0	10.9	2.0	3.5	3.5	9.9
TOTAL DISSOLVED SOLIDS, mg/L	91	119	53	65	66	115
TURBIDITY, NTU	2.4	1.5	0.4	0.4	1.4	
UN-IONIZED AMMONIA, mg/L						
TRIHALOMETHANES, ppb						
BORON, mg/L (not to exceed 1.0)						
SULFATE, mg/L (not to exceed 5)						

Represents a Monthly Sample
and
Represents a Quarterly Sample

* As of ~13 October 2001 the one-water is "city water", supplied by TDPUD.

SURFACE WATER MONITORING - OCTOBER, 2001

DATE OF FIRST SAMPLE 1 October 2001

DATE OF SECOND SAMPLE 16 October 2001

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.10	0.50	<0.01	0.04	0.01	0.25
NITRATE - Second Sample, mg/L	0.07	0.42	0.01	0.43	0.02	
TOTAL KJELDAHL NITROGEN, mg/L	0.9	0.7	0.6	0.6	0.4	0.2
TOTAL PHOSPHORUS, mg/L	0.05	0.05	0.01	0.01	0.02	0.04
ORTHO PHOSPHORUS, mg/L	0.03	0.04	0.01	0.01	0.01	
TOTAL COLIFORM, MPN	27	50	30	30	23	A
FECAL COLIFORM, MPN	<2	7	2	<2	2	A
TOTAL IRON, mg/L	0.12	0.11	0.04	0.04	0.09	
DISSOLVED OXYGEN, mg/L	8.7	8.4	8.8	8.3	8.6	
pH	9.3	8.9	8.1	8.2	8.2	7.5
ALKALINITY, mg/L	76	86	42	46	44	208
TEMPERATURE, Degrees C First Sample	16	17	16	17	16	
TEMPERATURE, Degrees C Second Sample	11	10	13	14	11	
DISSOLVED ORGANIC CARBON, mg/L	3.8	3.5	0.8	0.8	1.1	1.5
CHLORIDE, mg/L	1.3	16.9	3.2	3.9	4.9	107
TOTAL DISSOLVED SOLIDS, mg/L	100	145	61	64	60	427
TURBIDITY, NTU	1.8	1.4	0.5	0.5	0.8	
UN-IONIZED AMMONIA, mg/L						
TRIHALOMETHANES, ppb						
BORON, mg/L (not to exceed 1.0)						
SULFATE, mg/L (not to exceed 5)						

Represents a Monthly Sample
and
Represents a Quarterly Sample

Tahoe-Truckee Sanitation Agency

Periphyton

09-Oct-01

Location	M-1	M-2	T-1	T-2	T-3
Date (in/out)	9-25/10-9	9-25/10-9	9-25/10-9	9-25/10-9	9-25/10-9
Days of Exposure	14	14	14	14	14
Temperature (in/out) C	16/13	15/10	16/13	17/14	18/14

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device anchored to the stream bottom and allowed to colonize for 10 to 26 days.

grams/m^2 (dry wt.)	2.019	24.3261	1.4707	14.6149	6.6838
grams/m^2 (ash free dry wt.)	1.208	9.0717	0.4115	3.2939	3.0168
Percent Volatile	59.81	37.29	27.98	22.54	45.14

Relative Percentages

Chlorophyta (green algae)	80	70	10	40	40
Chrysophyta (golden brown algae)					
Bacillariophyceae (diatoms)	20	30	90	60	60
Cyanophyta (blue green algae)					

Notes:

Tahoe-Truckee Sanitation Agency

Periphyton

24-Oct-01

Location	M-1	M-2	T-1	T-2	T-3
Date (in/out)	10-09/10-24	10-09/10-24	10-09/10-24	10-09/10-24	10-09/10-24
Days of Exposure	15	15	15	15	15
Temperature (in/out) C	13/11	10/13	13/11	14/10	14/10

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device anchored to the stream bottom and allowed to colonize for 10 to 26 days.

grams/m^2 (dry wt.)	3.827	13.3996	1.1773	9.2316	0.2476
grams/m^2 (ash free dry wt.)	1.700	4.9462	0.3315	3.5338	0.1029
Percent Volatile	44.43	36.91	28.16	38.28	41.56

Relative Percentages

Chlorophyta (green algae)	20	40	15	30	5
Chrysophyta (golden brown algae)					
Bacillariophyceae (diatoms)	80	60	85	70	95
Cyanophyta (blue green algae)					

Notes:

Tahoe-Truckee Sanitation Agency

Benthic Invertebrates

Location	M-1	M-2	T-1	T-2	T-3
Date	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001
Temperature (^{0}C)	11	10	13	14	11
Sampling Device	Surber	Surber	Surber	Surber	Surber

Below is listed the number of individuals found per sampling device. The Surber sampler represents 929 cm 2 while the Hester Dendy sampler represents 1238 cm 2.

Insecta	M-1	M-2	T-1	T-2	T-3
Coleoptera (beetles)	2	6		1	
Diptera (true flies)	12		1	3	
Ephemeroptera (mayflies)		2	1		5
Plecoptera (stoneflies)	3		4	3	4
Trichoptera (caddisflies)	73	8	18	7	10
Mollusca					
Crustacea	3	2			
Platyhelminthes	7				
Annelida (Oligochaeta)	14	16	1	2	
Arachnoidia	3			1	1

Total	117	41	25	17	20
Diversity	3.55	5.27	2.5	4.77	3.21

Notes:

MONITORING & REPORTING TRACKING FORM

ENTERED 12-3-01

WDID No. 6A 29001000 Return to Cheryl by 9 / 8 / 4

Board Order No. 6-96-27 Date SMR Received 6 / 8 / 01

Report Frequency: Irregular Staff: SP Reviewed By: AK

Report Type: M Review Date: 10/10/01
(Monitoring, Pretreatment, Sludge, Other)

Date Report Due: (DAY/MONTH/YEAR) 6-8-01

Facility TTSA

Compliance X YES ____ NO

REMINDER: PLEASE COMPLETE VIOLATION FORM ON REVERSE SIDE FOR NONCOMPLIANCE

Comments: (Do you want this entered on Program comment line? Y/N)

TTSA This is not part of TTSA's monitoring program. This report is in regards to their disinfection study.

If not in compliance, what is the recommended action?

Supervisor reviewed? Yes ____ No X

FYI (Current entry on program comment line - Do you want this deleted? Y/N)

DISPOSAL FIELD BACTERIOLOGICAL RESULTS - 2001

DATE	LOCATION	COLILERT PRESENCE/ABSENCE		15-TUBE MPN	
		COLIFORM	FECAL COLIFORM	COLIFORM	FECAL COLIFORM
01-May	WELL 28	P	A	<2	<2
	WELL 25	P	A	<2	<2
	WELL 21	A	A		
	WELL 31	A	A		
07-May	WELL 28	P	A	80	<2
	WELL 25	P	A	2	<2
	WELL 21	A	A		
	WELL 31	P	A		
14-May	WELL 28	P	P	38	2
	WELL 25	P	A	4	<2
	WELL 21	A	A		
	WELL 31	P	A		
21-May	WELL 28	P	A	30	<2
	WELL 25	P	A	2	<2
	WELL 21	A	A		
	WELL 31	P	A		
29-May	WELL 28	P	P	8	<2
	WELL 25	P	A	2	<2
	WELL 21	A	A		
	WELL 31	P	A		

SURFACE WATER MONITORING - SEPTEMBER, 2001

DATE OF FIRST SAMPLE 4 September 2001

DATE OF SECOND SAMPLE 17 September 2001

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.10	0.55	0.01	0.03	0.01	0.19
NITRATE - Second Sample, mg/L	0.07	0.50	<0.01	0.03	0.01	
TOTAL KJELDAHL NITROGEN, mg/L	0.6	0.4	0.7	0.7	0.9	0.3
TOTAL PHOSPHORUS, mg/L	0.06	0.06	0.02	0.03	0.02	0.03
ORTHO PHOSPHORUS, mg/L	0.03	0.03	0.01	0.02	<0.01	
TOTAL COLIFORM, MPN	130	500	110	110	50	A
FECAL COLIFORM, MPN	<2	30	2	<2	2	A
TOTAL IRON, mg/L	0.09	0.12	0.07	0.06	0.10	
DISSOLVED OXYGEN, mg/L	8.7	9.3	8.3	8.1	8.4	
pH	9.4	8.1	8.1	8.1	8.3	7.7
ALKALINITY, mg/L	72	92	48	48	46	206
TEMPERATURE, Degrees C First Sample	19	15	17	19	18	
TEMPERATURE, Degrees C Second Sample	15	14	16	18	18	
DISSOLVED ORGANIC CARBON, mg/L	3.2	2.6	0.6	0.6	0.9	1.4
CHLORIDE, mg/L	3.6	23.3	1.7	3.3	3.1	106
TOTAL DISSOLVED SOLIDS, mg/L	136	175	68	107	76	436
TURBIDITY, NTU	1.9	1.1	0.7	0.7	1.3	
UN-IONIZED AMMONIA, mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	
TRIHALOMETHANES, ppb		ND		ND	ND	
BORON, mg/L (not to exceed 1.0)					0.09	
SULFATE, mg/L (not to exceed 5)		5.2		2.6	2.5	

Represents a Monthly Sample
and
Represents a Quarterly Sample

Tahoe-Truckee Sanitation Agency

Periphyton

11-Sep-01

Location	M-1	M-2	T-1	T-2	T-3
Date (in/out)	8-27/9-11	8-27/9-11		8-27/9-11	
Days of Exposure	15	15		15	
Temperature (in/out)	19/16	15/12		19/16	

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device anchored to the stream bottom and allowed to colonize for 10 to 26 days.

grams/m^2 (dry wt.)	1.680	23.1269		3.2614	
grams/m^2 (ash free dry wt.)	0.789	8.2402		1.2459	
Percent Volatile	46.94	35.63		38.20	

Relative Percentages

Chlorophyta (green algae)	20	50		10	
Chrysophyta (golden brown algae)					
Bacillariophyceae (diatoms)	80	50		90	
Cyanophyta (blue green algae)					

Notes: 1.) T-1 sampler vandalized-no data

2.) T-3 sampler vandalized-no data

Tahoe-Truckee Sanitation Agency

Periphyton

25-Sep-01

Location	M-1	M-2	T-1	T-2	T-3
Date (in/out)	9-11/9-25	9-11/9-25	9-11/9-25	9-11/9-25	
Days of Exposure	14	14	14	14	
Temperature (in/out)	16/16	12/15	16/16	16/17	

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device anchored to the stream bottom and allowed to colonize for 10 to 26 days.

grams/m^2 (dry wt.)	4.854	18.9375	1.0668	8.3325	
grams/m^2 (ash free dry wt.)	2.217	7.0143	0.32	1.0973	
Percent Volatile	45.68	37.04	30.00	13.17	

Relative Percentages

Chlorophyta (green algae)	40	35	10	5	
Chrysophyta (golden brown algae)					
Bacillariophyceae (diatoms)	60	65	90	95	
Cyanophyta (blue green algae)					

Notes: 1.) T-3 sampler vandalized-no data

Tahoe-Truckee Sanitation Agency

Benthic Invertebrates

Location	M-1	M-2	T-1	T-2	T-3
Date	09/17/2001	09/17/2001	09/17/2001	09/17/2001	09/17/2001
Temperature (^{0}C)	15	14	16	18	18
Sampling Device	Surber	Surber	Surber	Surber	Surber

Below is listed the number of individuals found per sampling device. The Surber sampler represents 929 cm 2 while the Hester Dendy sampler represents 1238 cm 2.

Insecta	M-1	M-2	T-1	T-2	T-3
Coleoptera (beetles)		15		4	
Diptera (true flies)	27			3	2
Ephemeroptera (mayflies)	1	3	6	3	14
Plecoptera (stoneflies)		2		1	1
Trichoptera (caddisflies)	21	8	3	7	
Mollusca					
Crustacea	2	4			
Platyhelminthes	10			1	1
Annelida (Oligochaeta)	3	8	1	15	5
Arachnoidia	6	1		1	

Total	70	41	10	35	23
Diversity	4.55	5.27	2.45	5.26	3.06

Notes:

SURFACE WATER MONITORING - AUGUST, 2001

DATE OF FIRST SAMPLE 1 August 2001

DATE OF SECOND SAMPLE 13 August 2001

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.06	0.47	<0.01	0.03	<0.01	0.12
NITRATE - Second Sample, mg/L	0.06	0.51	0.01	0.03	0.01	
TOTAL KJELDAHL NITROGEN, mg/L	0.7	0.8	1.0	0.4	0.3	0.2
TOTAL PHOSPHORUS, mg/L	0.10	0.08	0.06	0.09	0.07	0.07
ORTHO PHOSPHORUS, mg/L	0.03	0.04	0.04	0.05	0.05	
TOTAL COLIFORM, MPN	50	220	80	80	23	<2
FECAL COLIFORM, MPN	23	17	7	4	2	<2
TOTAL IRON, mg/L	0.16	0.21	0.10	0.10	0.19	
DISSOLVED OXYGEN, mg/L	7.8	8.7	8.2	8.0	7.7	
pH	9.6	8.0	7.9	8.0	8.1	7.5
ALKALINITY, mg/L	70	88	44	48	44	198
TEMPERATURE, Degrees C First Sample	20	14	15	17	18	
TEMPERATURE, Degrees C Second Sample	20	17	18	20	20	
DISSOLVED ORGANIC CARBON, mg/L	3.1	2.4	0.5	0.6	0.9	1.3
CHLORIDE, mg/L	1.5	25.6	1.9	3.9	2.5	107
TOTAL DISSOLVED SOLIDS, mg/L	87	159	56	59	55	431
TURBIDITY, NTU	2.9	1.8	0.7	0.7	1.5	
UN-IONIZED AMMONIA, mg/L						
TRIHALOMETHANES, ppb						
BORON, mg/L (not to exceed 1.0)						
SULFATE, mg/L (not to exceed 5)						

Represents a Monthly Sample
and
Represents a Quarterly Sample

Periphyton
Tahoe Truckee Sanitation Agency

Date August 13, 2001	M- 1	M-2	T-1	T-2	T-3
Date In/Out	7-27/ 8-13	7-27/ 8-13	7-27/ 8-13		7-27/ 8-13
Days of Exposure	17	17	17		17
Temperature In/Out C	19/20	13/17	16/18		19/20

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2	5.2692	11.6777	1.7602		2.7395
Grams ash free dry wt/m2	2.1374	3.8138	0.5944		1.2032
Percent volatile	40.6	32.7	33.8		43.9

Relative Percentages

CHLOROPHYTA (Green algae)	80	50	50		60
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE (Diatoms)	20	50	50		40
CYANOPHYTA (blue green algae)					

Notes:

1. T-2 Sampler vandalized – No data

Tahoe-Truckee Sanitation Agency

Periphyton

27-Aug-01

Location	M-1	M-2	T-1	T-2	T-3
Date (in/out)	8-13/8-27	8-13/8-27		8-13/8-27	
Days of Exposure	14	14		14	
Temperature (in/out)	20/19	17/15		20/19	

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device anchored to the stream bottom and allowed to colonize for 10 to 26 days.

grams/m^2 (dry wt.)	2.957	16.848		3.783	
grams/m^2 (ash free dry wt.)	1.425	5.943		0.892	
Percent Volatile	48.19	35.27		23.58	

Relative Percentages

Chlorophyta (green algae)	25	40		50	
Chrysophyta (golden brown algae)					
Bacillariophyceae (diatoms)	75	60		50	
Cyanophyta (blue green algae)					

Notes: 1.) T-1 sampler vandalized-no data

2.) T-3 sampler vandalized-no data

Tahoe Truckee Sanitation Agency

Benthic Invertebrates

	Sampling Location				
	M-1	M-2	T-1	T-2	T-3
Date	08/13/01	08/13/01	08/13/01	08/13/01	08/13/01
Temperature Centigrade	20	17	18	20	20
Sampling Device	Surber	Surber	Surber	Surber	Surber

Below is the number of individuals found per sampling device, which is noted, in the lower row above. The Surber Sampler represents 929 cm2 while the Hester Dendy sampler represents 1238 cm2.

Insecta					
Coleoptera (beetles)		5		5	
Diptera (true flies)	1			1	
Ephemoptera (mayflies)	28		1	9	3
Plecoptera (stoneflies)	5	4	5	6	2
Tricoptera (caddisflies)	25	20	6	9	3
Mollusca					
Crustacea	6	4			
Platyhelminthes	15				
Annelida (Oligochaeta)	12	1		6	
Arachnoidia	8				
Total	100	34	12	36	8
Diversity	6.10	3.33	2.51	5.30	2.95

Notes:

SURFACE WATER MONITORING - JULY, 2001

DATE OF FIRST SAMPLE 2 July 2001

DATE OF SECOND SAMPLE 17 July 2001

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.04	0.31	<0.01	0.03	0.01	0.04
NITRATE - Second Sample, mg/L	0.06	0.43	0.01	0.04	0.01	
TOTAL KJELDAHL NITROGEN, mg/L	0.8	0.6	0.7	1.1	1.1	0.4
TOTAL PHOSPHORUS, mg/L	0.07	0.09	0.03	0.07	0.06	0.07
ORTHO PHOSPHORUS, mg/L	0.01	0.04	0.02	0.07	0.04	
TOTAL COLIFORM, MPN	110	300	20	11	8	A
FECAL COLIFORM, MPN	2	23	4	2	8	A
TOTAL IRON, mg/L	0.09	0.19	0.12	0.13	0.18	
DISSOLVED OXYGEN, mg/L	7.7	8.7	8.4	8.4	8.0	
pH	9.5	8.3	8.0	8.1	8.2	7.7
ALKALINITY, mg/L	68	80	44	46	42	196
TEMPERATURE, Degrees C First Sample	21	16	16	19	19	
TEMPERATURE, Degrees C Second Sample	20	16	15	17	18	
DISSOLVED ORGANIC CARBON, mg/L	2.2	2.0	0.5	0.7	1.1	1.4
CHLORIDE, mg/L	3.1	20.4	2.1	5.8	3.2	110
TOTAL DISSOLVED SOLIDS, mg/L	104	145	62	74	66	423
TURBIDITY, NTU	8.0	3.2	0.9	0.7	1.6	
UN-IONIZED AMMONIA, mg/L						
TRIHALOMETHANES, ppb						
BORON, mg/L (not to exceed 1.0)						
SULFATE, mg/L (not to exceed 5)						

Represents a Monthly Sample
and
Represents a Quarterly Sample

Periphyton

Tahoe Truckee Sanitation Agency

Date July 10, 2001	M- 1	M-2	T-1	T-2	T-3
Date In/Out	6-26/ 7-10	6-26/ 7-10	6-26/ 7-10	6-26/ 7-10	6-26/ 7-10
Days of Exposure	14	14	14	14	14
Temperature In/Out C	13/16	17/17	14/18	17/19	16/18

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2	3.8481	5.3416	3.5242	7.1780	2.1679
Grams ash free dry wt/m2	1.5164	2.3736	1.4439	1.7564	0.9411
Percent volatile	39.4	44.4	41.0	24.5	43.4

Relative Percentages

CHLOROPHYTA (Green algae)	40	10	15	50	30
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE (Diatoms)	60	90	85	50	70
CYANOPHYTA (blue green algae)					

Notes:

Periphyton
Tahoe Truckee Sanitation Agency

Date July 27, 2001	M- 1	M-2	T-1	T-2	T-3
Date In/Out		7-10/ 7-27	7-10/ 7-27	7-10/ 7-27	7-10/ 7-27
Days of Exposure		17	17	17	17
Temperature In/Out C		17/13	18/16	19/19	18/19

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2		13.2359	6.4122	7.4790	3.7986
Grams ash free dry wt/m2		3.9243	1.7907	1.7910	1.6002
Percent volatile		29.6	27.9	23.9	42.1

Relative Percentages

CHLOROPHYTA (Green algae)		40	10	20	20
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE (Diatoms)		60	90	80	80
CYANOPHYTA (blue green algae)					

Notes:

1. M-1 Sampler vandalized – No data

Tahoe Truckee Sanitation Agency

Benthic Invertebrates

	Sampling Location				
	M-1	M-2	T-1	T-2	T-3
Date	07/17/01	07/17/01	0717/01	07/17/01	07/17/01
Temperature Centigrade	20	16	15	17	18
Sampling Device	Surber	Surber	Surber	Surber	Surber

Below is the number of individuals found per sampling device, which is noted, in the lower row above. The Surber Sampler represents 929 cm2 while the Hester Dendy sampler represents 1238 cm2.

Insecta					
Coleoptera (beetles)		11		3	
Diptera (true flies)		1		2	
Ephemoptera (mayflies)	30	3	4	11	13
Plecoptera (stoneflies)		2	2	10	5
Tricoptera (caddisflies)	18	10	4	7	15
Mollusca					
Crustacea	16	3			
Platyhelminthes	13				
Annelida (Oligochaeta)	54	11	2	8	3
Arachnoidia	4	2	1		2
Total	135	43	13	41	38
Diversity	4.72	5.94	4.48	5.24	3.88

Notes:

NITORING & REPORTING TRAC..NG FORM ENTERED 8-16-01 CH

WDID No. 6A 290011000 Return to Cheryl by 8/10/01

Board Order No. 6- 90-27 Date SMR Received 7/20/01

Report Frequency : I Staff: JSP Reviewed By: TJP

Report Type: M Review Date: 08/01/01
(Monitoring, Pretreatment, Sludge, Other)

Date Report Due: (DAY/MONTH/YEAR) 7-10-01

Facility TTSA X Regular

Compliance X YES ____NO

REMINDER: PLEASE COMPLETE VIOLATION FORM ON REVERSE SIDE FOR NONCOMPLIANCE

Comments: (Do you want this entered on Program comment line? Y/N)

If not in compliance, what is the recommended action?

Supervisor reviewed? Yes _____ No _____

FYI (Current entry on program comment line - Do you want this deleted? Y/N)

DISPOSAL FIELD BACTERIOLOGICAL RESULTS - 2001

DATE	LOCATION	COLILERT PRESENCE/ABSENCE		15-TUBE MPN	
		COLIFORM	FECAL COLIFORM	COLIFORM	FECAL COLIFORM
04-Jun	WELL 28	P	A	50	2
	WELL 25	P	A	4	<2
	WELL 21	A	A		
	WELL 31	P	A		
11-Jun	WELL 28	P	A	2	<2
	WELL 25	P	A	4	<2
	WELL 21	A	A		
	WELL 31	A	A		
18-Jun	WELL 28	P	A	<2	<2
	WELL 25	P	A	2	<2
	WELL 21	P	A		
	WELL 31	A	A		
25-Jun	WELL 28	P	A	8	<2
	WELL 25	P	A	4	<2
	WELL 21	A	A		
	WELL 31	A	A		
	WELL 28				
	WELL 25				
	WELL 21				
	WELL 31				

SURFACE WATER MONITORING - JUNE, 2001

DATE OF FIRST SAMPLE 4 June 2001

DATE OF SECOND SAMPLE 19 June 2001

CONSTITUENTS	M-1	M-2	T-1	T-2	T-3	1-WATER
NITRATE - First Sample, mg/L	0.04	0.19	0.01	0.04	<0.01	<0.01
NITRATE - Second Sample, mg/L	0.04	0.20	<0.01	0.03	<0.01	
TOTAL KJELDAHL NITROGEN, mg/L	0.3	0.4	0.5	0.4	0.6	0.1
TOTAL PHOSPHORUS, mg/L	0.06	0.06	0.02	0.05	0.07	0.05
ORTHO PHOSPHORUS, mg/L	0.04	0.04	0.01	0.02	0.04	
TOTAL COLIFORM, MPN	50	80	70	30	8	A
FECAL COLIFORM, MPN	4	11	4	4	<2	A
TOTAL IRON, mg/L	0.13	0.11	0.08	0.10	0.14	
DISSOLVED OXYGEN, mg/L	9.0	9.1	9.6	9.2	8.7	
pH	9.1	8.3	8.0	7.9	8.1	7.7
ALKALINITY, mg/L	64	74	40	46	38	194
TEMPERATURE, Degrees C First Sample	19	15	11	14	14	
TEMPERATURE, Degrees C Second Sample	14	18	15	17	18	
DISSOLVED ORGANIC CARBON, mg/L	2.1	1.9	0.6	0.7	1.1	1.3
CHLORIDE, mg/L	3.2	17.6	2.5	5.5	3.7	109
TOTAL DISSOLVED SOLIDS, mg/L	95	130	54	63	61	416
TURBIDITY, NTU	1.4	1.1	0.8	0.8	1.1	
UN-IONIZED AMMONIA, mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	
TRIHALOMETHANES, ppb		ND		ND	ND	
BORON, mg/L (not to exceed 1.0)					<0.05	
SULFATE, mg/L (not to exceed 5)		5.0		3.0	2.5	

Represents a Monthly Sample
and
Represents a Quarterly Sample

Tahoe Truckee Sanitation Agency

Benthic Invertebrates

	Sampling Location				
	M-1	M-2	T-1	T-2	T-3
Date	6/19/01	6/19/01	6/19/01	6/19/01	6/19/01
Temperature Centigrade	14	18	15	17	18
Sampling Device	Surber	Surber	Surber	Surber	Surber

Below is the number of individuals found per sampling device, which is noted, in the lower row above. The Surber Sampler represents 929 cm2 while the Hester Dendy sampler represents 1238 cm2.

Insecta					
Coleoptera (beetles)	1	3	2		
Diptera (true flies)					
Ephemoptera (mayflies)	15	5	5	5	2
Plecoptera (stoneflies)	2	3		9	4
Tricoptera (caddisflies)	7	1	2	4	5
Mollusca					
Crustacea	5	1		1	1
Platyhelminthes	8			1	
Annelida (Oligochaeta)	10	4	2	8	7
Arachnoidia	3				
Total	51	17	11	28	19
Diversity	6.30	5.19	3.63	4.71	4.22

Notes:

Periphyton

Tahoe Truckee Sanitation Agency

Date June 12, 2001	M- 1	M-2	T-1	T-2	T-3
Date In/Out	5-29/ 6-12	5-29/ 6-12	5-29/ 6-12	5-29/ 6-12	5-29/ 6-12
Days of Exposure	14	14	14	14	14
Temperature In/Out C	14/12	18/20	13/16	16/17	16/17

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2	1.4326	17.9408	3.7300	19.0462	1.4859
Grams ash free dry wt/m2	0.6020	6.4706	1.3183	5.1549	0.4077
Percent volatile	42.0	36.1	35.3	27.1	27.4

Relative Percentages

CHLOROPHYTA (Green algae)	50	30	20	60	50
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE (Diatoms)	50	70	80	40	50
CYANOPHYTA (blue green algae)					

Notes:

Periphyton

Tahoe Truckee Sanitation Agency

Date June 26. 2001	M- 1	M-2	T-1	T-2	T-3
Date In/Out	6-12/ 6-26	6-12/ 6-26		6-12/ 6-26	6-12/ 6-26
Days of Exposure	14	14		14	14
Temperature In/Out C	12/13	20/17		17/17	17/16

The sampling technique is an artificial substrate consisting of glass slides (25x75mm) held in a flotation device that is anchored to the stream bottom. This is allowed to colonize for 10 to 26 days.

Grams dry wt./m2	1.6574	13.9220		16.0433	1.8212
Grams ash free dry wt/m2	0.6287	5.0902		4.4026	0.8458
Percent volatile	37.9	36.6		27.4	46.4

Relative Percentages

CHLOROPHYTA (Green algae)	30	20		35	50
CHRYSOPHYTA (Golden brown algae)					
BACILLARIOPHYCEAE (Diatoms)	70	80		65	50
CYANOPHYTA (blue green algae)					

Notes:

1. T-1 sampler vandalized – no data available