

APPENDIX A.

**PARTICULATE MATTER AND
METEOROLOGICAL DATA**

MAMMOTH LAKES PARTICULATE DATA - GATEWAY HOME CENTER

YEAR	MONTH	DAY	PM-10 UG/M3	TEMP	TSP UG/M3	PM10/TSP	SULFATE UG/M3	NITRATE UG/M3	WND SPD (MPH)	WND DIR	DAY OF WK
1985	8	23	51		79	0.65	2.8	0.6			F
1985	8	29	22		42	0.52	0.9	0.5			TH
1985	9	4	30		31	0.97	0.9	0.5			W
1985	9	10	22		28	0.79	0.5	0.6			T
1985	9	16	19		19	1.00	0.5	0.3			M
1985	9	22	31		38	0.82	0.5	0.5			SUN
1985	9	28	35		49	0.71	0.5	0.4			SAT
1985	10	4	35	13	51	0.69	0.5	0.1	3.0	WSW	F
1985	10	10	48	2	67	0.72	0.5	0.5	2.1	WNW	TH
1985	10	16	57	7	80	0.71	0.5	0.2	2.3	WSW	W
1985	10	22	24	4	30	0.80	0.5	0.1	3.4	SW/WSW	T
1985	10	28	52	6	73	0.71	0.5	0.2	2.3	WNW	M
1985	11	3	41	9	67	0.61	0.5	0.2	2.1	W	SUN
1985	11	9	51	-2	156	0.33	2.6	1.4	10.3	W	SAT
1985	11	15	44	1	59	0.75	0.5	0.2	3.3	W	F
1985	11	21	21	2	40	0.53	0.7	0.1	5.8	WSW	TH
1985	11	27	19	4	27	0.70	0.5	0.3	5.8	W	W
1985	12	4	120	-1	139	0.86	1.0	1.0	1.7	W	W
1985	12	9	21	-9	32	0.66	1.0	1.0	2.2	N	M
1985	12	15	210	-2	302	0.70	1.0	1.1	1.8	WSW	SUN
1985	12	21	178	2	251	0.71	1.0	1.0	2.4	W	SAT
1985	12	27	185	2	255	0.73	1.0	1.5	2.1	WSW	F
1986	1	2	65		141	0.46	1.0	1.0	3.5	SW	TH
1986	1	8	159		244	0.65	1.0	1.1	1.9	W	W
1986	1	14	62		95	0.65	1.3	1.0	6.3	SSW	T
1986	1	20	90		158	0.57	1.0	1.0	3.4	SW	M
1986	1	26	114		160	0.71	1.0	1.0	0.7	WSW	SUN
1986	2	1	27	0	36	0.75	1.0	1.0	2.6	W	SAT
1986	2	7	85	-10	150	0.57	1.0	1.0	1.6	SE	F
1986	2	13	7	1			1.0	1.0	4.9	SW	TH
1986	3	3	65		103	0.63	1.4	1.0			M
1986	3	9	29	-2			1.0	1.0	3.9	SW/W	SUN
1986	3	15	57	-4			1.0	1.0	2.1	SW	SAT
1986	3	21	89	4	175	0.51	1.0	1.0	2.4	W	F
1986	3	27	85	-3	142	0.60	1.1	1.0	1.9	W/MNW	TH
1986	4	2	22	-5	47	0.47	1.0	1.0	4.4	NE	W
1986	4	8	24	2	43	0.56	1.0	1.0	2.6	SSW/SW	T
1986	4	14	34	2	62	0.55	1.0	1.0	2.1	W	M
1986	4	20	49	8	79	0.62	1.0	1.0	2.5	W	SUN

MAMMOTH LAKES PARTICULATE DATA - GATEWAY HOME CENTER

YEAR	MONTH	DAY	PM-10 UG/M3	TEMP	TSP UG/M3	PM10/TSP	SULFATE UG/M3	NITRATE UG/M3	WND SPD (MPH)	WND DIR	DAY OF WK
1986	5	2	34	11	58	0.59	1.0	1.0	5.9	W	F
1986	5	8	31	5	51	0.61	1.0	1.0	4.0	N	TH
1986	5	14	23	14	40	0.58	1.0	1.0	4.8	SW/NW	W
1986	5	20	37	14	96	0.39	1.0	1.0	5.9	WSW	T
1986	5	26	41	21	57	0.72	1.1	1.0	3.8	SW	M
1986	6	1	18	19	26	0.69	1.0	1.0	2.5	NW	SUN
1986	6	7	22	14	39	0.56	1.0	1.0	4.6	NW	SAT
1986	6	13	30	20	43	0.70	1.0	1.0	3.9	WSW/W	F
1986	6	25	39	21	77	0.51	1.4	1.0	4.1	WNW	W
1986	7	2	30	24	63	0.48	1.5	1.0	4.6	NW	W
1986	7	7	24	18	54	0.44	1.8	1.0	4.0	NW	M
1986	7	13	30	22	69	0.43	2.5	1.0	5.0	WSW	SUN
1986	7	19	23	20	43	0.53	1.0	1.0	3.4	SW/WNW	SAT
1986	7	25	35	16	86	0.41	2.8	1.0	3.2	SW	F
1986	7	31	31	22	68	0.46	1.4	1.0	3.7	WNW	W
1986	8	6	33	24	51	0.65	2.3	1.0	5.0	WSW/W	T
1986	8	12	34	23	79	0.43	2.6	1.0	3.7	SW/WNW	M
1986	8	18	36	18	74	0.49	1.2	1.0	2.9	SE	SUN
1986	8	30	21	20	51	0.41	1.0	1.0	4.4	WSW	SAT
1986	9	6	35	22	63	0.56	2.0	1.2	3.3	NW	SAT
1986	9	11	38	14			0.7	0.9	3.7	WSW	TH
1986	9	17	13	8	35	0.37	0.1	0.7	7.0	WSW/W	W
1986	9	23	29	6	44	0.66	0.9	1.0	3.6	SW	T
1986	9	29	33	8	51		0.1	0.5	2.5	W	M
1986	10	5	53	10			0.0	0.0	4.4	E	SUN
1986	10	11	46	8			0.0	0.0	3.6	NNE	SAT
1986	10	17	21	7			1.2	1.3	5.5	W	F
1986	10	23	42	9			1.1	0.7	3.4	WSW	TH
1986	10	29	17	13			0.3	0.5	6.1	WSW	W
1986	11	10	69	4			0.4	0.7	2.6	W	M
1986	11	16	14	9			0.4	0.3	4.5	NW	SUN
1986	11	22	20	2			0.5	0.4	4.0	NE	SAT
1986	11	28	20	9			0.4	0.4	6.2	WSW	F
1986	12	4	41	6			0.5	0.6	3.7	WSW	TH
1986	12	10	95	0			0.5	0.9	3.1	W	W
1986	12	16	63	-1			0.9	1.3	2.9	NW	T
1986	12	22	34	4			0.5	0.2	6.8	WSW/W	M
1986	12	28	105	-1			0.6	1.3	2.6	W	SUN

MAMMOTH LAKES PARTICULATE DATA - GATEWAY HOME CENTER

YEAR	MONTH	DAY	PM-10 UG/M3	TEMP	TSP PM10/TSP UG/M3	SULFATE UG/M3	NITRATE UG/M3	WND SPD (MPH)	WND DIR	DAY OF WK
1987	1	3	20	2		0.5	0.3	4.3	SW	SAT
1987	1	9	110	-6		1.2	1.2	2.7	W	F
1987	1	15	17	-12		0.9	0.4	6.2	E	TH
1987	1	21	95	2		0.7	1.1	2.1	WNW	W
1987	1	25	69							SUN
1987	1	27	16	10		0.6	0.6	8.3	WSW	T
1987	1	30	22	3				3.4	WSW/W	F
1987	2	4	89	1				2.4	W	W
1987	2	8	82	4		1.1	1.1	2.1	W	SUN
1987	2	11	33	5				1.8	NW	W
1987	2	19	43	-5		0.7	0.5	4.9	V	TH
1987	2	21	68	-1		1.1	1.6	3.4	W	SAT
1987	2	26	88	-7		1.3	0.8	2.8	WNW	TH
1987	3	4	40					4.3		W
1987	3	10	38	2				4.5	WNW	T
1987	3	16	54					2.6	SSE	M
1987	3	22	26	0				3.4	NNE/NW	SUN
1987	3	28	98	2				3.0	WNW	SAT
1987	4	3	27	3				3.4	WSW	F
1987	4	7	34	9				3.1	W	T
1987	4	9	27	10				2.5	W	TH
1987	4	11	20	10				4.8	W	SAT
1987	4	15	41	14				3.4	NW	W
1987	4	18	34	5				7.3	W	SAT
1987	4	21	30	12				3.6	SE	T
1987	4	24	31	14				3.8	SW/NW	F
1987	4	27	20	14				3	NW	M
1987	4	30	13	7				6.1	W	TH
1987	5	3	27	12				3.1	W	SUN
1987	5	7	29	15				2.6	NW	TH
1987	5	12	16	16				3.2	NW	T
1987	5	15	16	14				2.7	NW	F
1987	5	21	22	8				2.5	NW	TH
1987	5	23	24	11				3.5	WSW	SAT
1987	5	27	17	10				3	SW/NW	W
1987	5	30	26	16				4.9	W	SAT

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YEAR	MONTH	DAY	PM-10 UG/M3	TEMP	TSP PM10/TSP UG/M3	SULFATE UG/M3	NITRATE UG/M3	WND SPD (MPH)	WND DIR	DAY OF WK
1987	6	2	22	20				3.1	W	T
1987	6	5	29	20				3.3	W	F
1987	6	8	12	16				2.8	NW	M
1987	6	14	23	19				5	W	SUN
1987	6	17	20	18				5.5	W	W
1987	6	20	22	21				5.5	W	SAT
1987	6	24	34	21				3.8	NW	W
1987	6	26	34	21				3.9	NW	F
1987	6	30	35	19				4.1	W/NW	T
1987	7	2	23	15				4.3	WSW/NW	TH
1987	7	8	28	23				4.1	WSW	W
1987	7	14	29	23				3.9	WNW	T
1987	7	20	19	14				4.1	WSW	M
1987	7	26	16	18				4.5	WNW	SUN
1987	8	1	21							SAT
1987	8	7	23							F
1987	8	13	29							TH
1987	8	19	35							W
1987	8	25	38							T
1987	8	31	39							M
1987	9	6	86							SUN
1987	9	12	38							SAT
1987	9	18	30	14				3.7	SW/WNW	F
1987	9	24	31	14				3.3	W	TH
1987	9	30	23	14				3.5	WSW	W
1987	10	6	27	16				3.5	SW	T
1987	10	12	16							M
1987	10	18	34					2.6	W	SUN
1987	10	24	34					1.6	WSW	SAT
1987	10	30	38					1.9	W	F
1987	11	23	83	0				1.6	W	M
1987	11	25	96	-6				4	ENE	W
1987	11	29	71	-3				2.1	W	SUN
1987	12	5	12	2				3.9	WSW	SAT
1987	12	11	45	0				3	NNW	F
1987	12	17	40	-8				1.3	W	TH
1987	12	23	10	-13				3	NE	W
1987	12	29	26	-8				2	SE	T

MAMMOTH LAKES PARTICULATE DATA - GATEWAY HOME CENTER

YEAR	MONTH	DAY	PM-10 UG/M3	TEMP	TSP PM10/TSP UG/M3	SULFATE UG/M3	NITRATE UG/M3	WND SPD (MPH)	WND DIR	DAY OF WK
1988	1	4	14	1				3.9	SW	M
1988	1	10	37	4				4.8	SW	SUN
1988	1	16	22	-5				5.6	WSW	SAT
1988	1	22	131	0				3	W	F
1988	1	28	70	3				3.3	SW	TH
1988	2	3	111	-6				3.1	W	W
1988	2	9	73	6				3.5	W	T
1988	2	15	70	5				2.6	SW	M(H)
1988	2	21	75	3				2.7	W	SUN
1988	2	27	56	2				1.5	ENE	SAT
1988	3	4	60	5				3.1	W	F
1988	3	10	27	-6				3.5	NNE	TH
1988	3	16	63	-1				3.1	W	W
1988	3	22	13	8				5.2	WSW	T
1988	3	28	45	2				3.3	W	M
1988	4	3		7				5.1	SW/WSW	
1988	4	9		7				3.4	WSW/W	
1988	4	15	7	3				4.3	N	
1988	4	21	19	-2				3.5	WNW	
1988	4	27	22	12				3.5	SW	
1988	5	3	14							
1988	5	9	15							
1988	5	15	14							
1988	5	21	16							
1988	5	27	17							
1988	6	2	7							
1988	6	8	12							
1988	6	14	21							
1988	6	22	8							
1988	6	26	16							
1988	7	2	20							
1988	7	8	24							
1988	7	14	22							
1988	7	20	29							
1988	7	26	22							
1988	8	1	20							
1988	8	7	20							
1988	8	13	16							
1988	8	19	31							
1988	8	25	21							

MAMMOTH LAKES PARTICULATE DATA - GATEWAY HOME CENTER

YEAR	MONTH	DAY	PM-10 UG/M3	TEMP	TSP PM10/TSP UG/M3	SULFATE UG/M3	NITRATE UG/M3	WND SPD (MPH)	WND DIR	DAY OF WK
1989	3	5	28							
1989	3	11	21							
1989	3	17	11							
1989	3	23	17							
1989	3	29	13							
1989	4	4	26							
1989	4	10	29							
1989	4	16	9							
1989	4	22	13							
1989	4	28	23							
1989	5	4	17							
1989	5	10	12							
1989	5	16	13							
1989	5	22	17							
1989	5	28	12							
1989	6	3	6							
1989	6	9	12							
1989	6	15	22							
1989	6	21	27							
1989	6	27	26							
1989	7	3	22							
1989	7	9	21							
1989	7	15	11							
1989	7	21	21							
1989	7	27	17							
1989	8	2	11							
1989	8	8	18							
1989	8	14	11							
1989	8	20	16							
1989	8	26	19							
1989	9	7	25							
1989	9	13	21							
1989	9	19	9							
1989	9	25	12							

SUMMARY OF WINTER 89/90 PM-10 DATA
AT MAMMOTH LAKES GATEWAY HOME CENTER

NOVEMBER 1989		$\mu\text{g}/\text{m}^3$
06	Monday	18
12	Sunday	7
18	Saturday	71
24	Friday	26
30	Thursday	105

DECEMBER 1989		
06	Wednesday	81
12	Tuesday	91
18	Monday	62
24	Sunday	130
30	Saturday	162

JANUARY 1990		
05	Friday	157
11	Thursday	85
18	Thursday	65
23	Tuesday	115
29	Monday	13

FEBRUARY 1990		
04	Sunday	69
10	Saturday	162
16	Friday	45
22	Thursday	121
28	Wednesday	51

MARCH 1990		
06	Tuesday	75
12	Monday	49
18	Sunday	32
24	Saturday	31
30	Friday	38

**Dichot Data Analysis for Days
Exceeding 100 ug/m3**

<u>Date</u>	<u>Total ug/m3</u>	<u>Fine ug/m3</u>	<u>Coarse</u>		<u>Cinders on Road? & Comments</u>	<u>Wind</u>	
			<u>ug/m3</u>	<u>%CrS</u>		<u>MPH</u>	<u>Dir</u>
12/26/87	125.9	113.2	12.7	10%	yes, hvy traffic	0-3	S
12/30/87	132.8	118.7	14.1	11%	yes	2-4	SE
12/31/87	142.8	121.1	21.7	15%	yes, inv. noon	2-4	SE
01/01/88	117.4	103.0	14.4	12%	yes	1-4	ESE
01/22/88	143.8	98.6	45.2	31%	yes	2-4	NE
01/23/88	157.8	97.4	60.4	38%	yes, light OMR	5	NNW
02/03/88	104.3	69.8	34.5	33%	light 203 & OMR	4-6	SE
02/05/88	148.2	98.1	50.1	34%	light 203 & OMR	3-5	NW
02/06/88	163.0	115.2	47.8	29%	no cinders	4	SW
02/13/88	137.6	88.0	49.6	36%	no cinders	4-7	ENE
02/14/88	144.0	81.7	62.3	43%	no cinders	2-4	ESE
02/19/88	148.5	105.4	43.1	29%	no cinders	7-10	NNE