CHEMICAL ANALYSIS

WATER SOURCES

MONTSERRAT WATER AUTHORITY
CHEMICAL ANALYSIS - WATER SOURCES
JANUARY '97

Sampling Date	Water Type Untreated	Location Spring Source	Temp. C	pH	Conductivity mS/cm	TDS g/l	Fluoride mg/l	Chloride mg/l	Sulphate mg/l	Analysis Date
01/17/97	Drinking water	**Blackwood**	22.3	6.39	0 330	0 165	0.35	50	ND	01/17/97
01/17/97	Drinking water	**Underwood**	21.3	7.25	0.510	0.255	0 50	90	37	01/17/97
01/17/97	Drinking water	**Gingerground**	21.5	7.21	0.321	0.160	0.30	41	ND	01/17/97
01/31/97	Drinking water	**Fogarthy**	22.1	7.50	0.316	0.158	0.30	31.5	ND	02/03/97
		Olveston:								
01/31/97	Drinking water	3rd. catchment	22.3	7.20	0.277	0.138	0.20	38.0	ND	02/03/97
01/31/97	Drinking water	2nd. catchment	22.5	7.11	0.264	0.132	0.10	25.0	3	02/03/97
		Hope:								
01/31/97	Drinking water	upper left catchment	23.4	7.25	0.282	0.141	0.10	28.5	ND	02/03/97
01/31/97	Drinking water	2nd. catchment	23.0	7 28	0.276	0.138	0.10	35.5	ND	02/03/97
		Lawyer's:								
01/31/97	Drinking water	3rd. catchment	22.4	7.80	0 255	0.127	0.20	35.5	ND	02/03/97
01/31/97	Drinking water	2nd. catchment	22.2	6.77	0.259	0.129	0.10	41.0	ND	02/03/97
01/31/97	Drinking water	**Quashie**	22.3	7.26	0.257	0.128	0.20	31.5	ND	02/03/97
			WHO GUIDELINE VALUES							
			pH.		6.5 -8.5					
			TDS:		1.0 g/l					
			Fluorides:		1.5 mg/l					
			Chlorides:		250 mg/l					
			Sulphates:		250 mg/l					

MONTSERRAT WATER AUTHORITY
CHEMICAL ANALYSIS - WATER SOURCES
JANUARY '97

Sampling Date	Water Type Untreated	Location Spring Source	Temp. C	pH	Conductivity mS/cm	TDS g/l	Fluoride mg/l	Chloride mg/l	Sulphate mg/l	Analysis Date
		Monkey: oven								
01/24/97	Drinking water	Top catchment	25.3	7.20	0.287	0.144	0.35	50	ND	01/24/97
		Killiekrankie:								
01/24/97	Drinking water	1st. oven	25.5	7 03	0.288	0.144	0.10	50	5	01/24/97
01/24/97	Drinking water	2nd. oven	25.3	7.08	0.288	0.144	0.10	50	3	01/24/97
01/24/97	Drinking water	Hydram	25.8	7.53	0.288	0.144	0.10	30	8	01/24/97
		Corbette:								
01/24/97	Drinking water	1st. valley oven	26.0	7.43	0.389	0.194	0.25	33.5	15	01/24/97
01/24/97	Drinking water	2nd. valley, 6th catch-	25.3	6.67	0.395	0.194	0.20	54	ND	01/24/97
		ment.								
		Brodericks								
01/28/97	Drinking water	Upper Brodericks	21.2	7.81	0.557	0.279	0.35	87	45	01/28/97
			WHO GUIDELINE VALUES							
			pH·		6 5 -8.5					
			TDS·		1.0 g/l					
			Fluorides:		1.5 mg/l					
			Chlorides:		250 mg/l					
			Sulphates.		250 mg/l					

MONTSERRAT WATER AUTHORITY
CHEMICAL ANALYSIS - WATER SOURCES
FEBRUARY '97

Sampling Date	Water Type Untreated	Location Spring Source	Temp. C	pH	Conductivity mS/cm	TDS g/l	Fluoride mg/l	Chloride mg/l	Sulphate mg/l	Analysis Date
02/20/97	Drinking water	**Blackwood**	22.9	6.21	0.326	0.163	0.40	50	ND	02/21/97
02/20/97	Drinking water	**Underwood**	22.4	6.19	0.327	0.163	0.35	38	ND	02/21/97
02/20/97	Drinking water	**Gingerground**	22 5	7 13	0 320	0.160	0.25	38	3	02/21/97
02/20/97	Drinking water	**Fogarthy**	22.6	7.30	0.316	0.158	0.20	46	ND	02/21/97
		Olveston:								
02/20/97	Drinking water	1st. catchment	23.0	7.73	0.292	0.146	0.10	40	ND	02/21/97
02/20/97	Drinking water	2nd. catchment	23.2	7.03	0.267	0.133	0.10	28	ND	02/21/97
02/20/97	Drinking water	3rd. catchment	23.0	7.09	0 267	0.133	0.20	36	ND	02/21/97
		Hope:								
02/20/97	Drinking water	Upper left catchment	18.2	7.10	0.280	0.140	0.05	33.5	ND	02/21/97
02/20/97	Drinking water	2nd. catchment	17.6	7.73	0.258	0.129	0.20	20.5	ND	02/21/97
02/20/97	Drinking water	Upper right catchment	17.5	7.48	0.282	0.141	0.20	41	ND	02/21/97
02/20/97	Drinking water	right of upper left	18.0	6 51	0.243	0.121	0.10	18.8	ND	02/21/97
		Lawyer's:								
02/20/97	Drinking water	left catchment	17.8	7.10	0.271	0.135	0.10	35.5	ND	02/21/97
02/20/97	Drinking water	3rd. catchment	18.1	7.61	0.259	0 129	0 20	21.8	5	02/21/97
02/20/97	Drinking water	2nd. catchment	17.6	7.73	0.258	0.129	0.20	20.5	ND	02/21/97
02/20/97	Drinking water	**Quashie**	17.7	7.32	0.259	0.129	0.10	22.5	ND	02/21/97

WHO GUIDELINE VALUES

pH:	6.5 -8.5
TDS:	1 0 g/l
Fluorides	1.5 mg/l
Chlorides:	250 mg/l
Sulphates	250 mg/l

MONTSERRAT WATER AUTHORITY
CHEMICAL ANALYSIS - WATER SOURCES
MARCH '97

Sampling Date	Water Type Untreated	Location Spring Source	Temp. C	pH	Conductivity mS/cm	TDS g/l	Fluoride mg/l	Chloride mg/l	Sulphate mg/l	Analysis Date
03/18/97	Drinking water	**Blackwood**	23.4	6.17	0.331	0.166	0.40	38	ND	03/23/97
03/18/97	Drinking water	**Underwood**	23 1	6.28	0 338	0.169	0.30	34	ND	03/23/97
03/18/97	Drinking water	**Gingerground**	23.3	6.21	0 336	0.168	0.40	48	ND	03/23/97
		Fogarthy								
03/18/97	Drinking water	1st. catchment	22.3	7.39	0 322	0.161	0.20	45	ND	03/23/97
03/18/97	Drinking water	Last catchment	22.4	7.23	0.320	0.160	0.10	64	ND	03/23/97
		Olveston:								
03/18/97	Drinking water	1st. catchment	22.9	7.23	0.267	0.134	0.05	40	ND	03/23/97
03/18/97	Drinking water	2nd. catchment	22.6	6.99	0.268	0.134	0.05	30	ND	03/23/97
03/18/97	Drinking water	3rd. catchment	22 3	6 97	0.288	0.144	0.05	32	ND	03/23/97
		Hope:								
03/18/97	Drinking water	Upper left catchment	22 7	7.30	0 282	0.141	0.20	34	ND	03/23/97
03/18/97	Drinking water	2nd. catchment	22.7	7.11	0.276	0.138	0.10	27	ND	03/23/97
03/18/97	Drinking water	Upper right catchment	22.6	7 53	0.290	0.145	0.10	32	ND	03/23/97
03/18/97	Drinking water	Right of upper left	22.7	6.34	0.252	0.126	0.05	31.5	ND	03/23/97
		Lawyer's:								
03/18/97	Drinking water	Left catchment	22.5	7.09	0.263	0.131	0.20	35.5	3	03/23/97
03/18/97	Drinking water	3rd. catchment	22.8	6.97	0.256	0.128	0.20	28	ND	03/23/97
03/18/97	Drinking water	2nd. catchment	22.3	7 61	0.255	0.127	0.20	41	ND	03/23/97
		Quashie								
03/18/97	Drinking water	2nd. catchment	22.7	7.49	0.260	0.130	0.05	30	ND	03/23/97
03/18/97	Drinking water	3rd. catchment	22.8	7.46	0.260	0.130	0.25	35.5	ND	03/23/97

WHO GUIDELINE VALUES

pH:	6.5 -8 5
TDS:	1.0 g/l
Fluorides:	1.5 mg/l

MONTSERRAT WATER AUTHORITY
CHEMICAL ANALYSIS - WATER SOURCES
MARCH '97

Sampling Date	Water Type Untreated	Location Spring Source	Temp. C	pH	Conductivity mS/cm	TDS g/l	Fluoride mg/l	Chloride mg/l	Sulphate mg/l	Analysis Date
		Monkey:								
03/20/97	Drinking water	Top catchment	24.3	7.28	0.294	0.147	0.25	50	3	03/21/97
		Killiekrankie:								
03/20/97	Drinking water	1st. oven	24.9	7.03	0.290	0.145	0.20	42	3	03/21/97
03/20/97	Drinking water	2nd. oven	25.0	7.12	0.289	0 144	0.20	40	ND	03/21/97
03/20/97	Drinking water	Hydram	25.5	7.43	0.289	0.145	0.10	52	ND	03/21/97
		Corbette:								
03/20/97	Drinking water	1st. valley oven	25.7	7.12	0 545	0.273	0.30	87	26	03/21/97
03/20/97	Drinking water	2nd. valley, 6th catch-ment.	25.4	7.01	0.547	0.274	0.25	87	24	03/21/97
			WHO GUIDELINE VALUES							
			pH:		6.5 -8.5					
			TDS:		1.0 g/l					
			Fluorides:		1.5 mg/l					
			Chlorides:		250 mg/l					
			Sulphates:		250 mg/l					

MONTSERRAT WATER AUTHORITY
CHEMICAL ANALYSIS: WATER SOURCES
MAY '97

Sampling Date	Sampling Time	Location Spring Source	Temp. 0C	pH	Conductivity mS/cm	TDS g/l	Fluorides mg/l	Chlorides mg/l	Sulphat mg/l	Analysis Date
		Ginger Ground:								
05/23/97	9:54	1st. Catchment	24.7	8.14	0 329	0.165	0.25	45	ND	05/24/97
05/23/97	10:36	2nd. Catchment	24.0	6.34	0.330	0.166	0.35	50	ND	05/24/97
05/23/97	10:19	1st. Catchment	23.6	6.67	0 398	0.199	0 30	54	7	05/24/97
		Fogarthy:								
05/09/97	7 15	1st Catchment	22 7	7.69	0 282	0 141	0 10	60	ND	05/12/97
05/09/97	7 12	4th. Catchment	22 7	7 53	0.310	0 155	0.10	44	ND	05/12/97
		Lawyer's:								
05/09/97	11.02	1st Catchment	23 4	7.67	0.255	0.127	0 10	46	ND	05/12/97
05/09/97	11.05	Middle Catchment	23.3	7.95	0 255	0.127	0 05	44	3	05/12/97
05/09/97	11:08	Left Catchment	23.3	7.87	0 255	0 127	0.05	46	ND	05/12/97
05/09/97	11:12	Top Catchment	23.4	7.30	0 259	0.129	0 10	40	ND	05/12/97
05/09/97	11 16	Uppermost Catchment	23 1	7.19	0 257	0.128	0 05	42	ND	05/12/97
		Quashie:								
05/09/97	10.37	2nd Catchment	23.1	7 85	0 259	0 129	0.10	45	ND	05/12/97
05/09/97	10 40	4th Catchment	23 2	7.50	0.259	0.129	0.10	44	3	05/12/97
		Olveston:								
05/09/97	6 31	1st. Catchment	23 1	7.23	0.268	0 134	0.20	44	3	05/12/97
05/09/97	6:33	2nd Catchment	23.0	7.34	0.267	0 133	0.05	41	3	05/12/97
05/09/97	6.37	3rd. Catchment	23.0	7.27	0 275	0.137	0 10	44	ND	05/12/97
		Hope:								
05/09/97	10:03	Upper left Catchment	23.1	7.52	0.281	0.140	0.10	32	ND	05/12/97
05/09/97	10:13	2nd. Catchment	22.7	7 67	0.275	0.137	0 05	50	ND	05/12/97
05/09/97	10:09	Upper right Catchment	22 9	7 90	0 291	0.145	0 10	40	3	05/12/97
05/09/97	10 06	Upper mid. Catchment	23 0	6.96	0.268	0.134	0.10	56	ND	05/12/97

CHEMICAL ANALYSIS: WATER SOURCES
JULY '97

Sampling Date	Sampling Time	Location Spring Source	Temp. 0C	pH	Conductivity mS/cm	TDS g/l	Fluorides mg/l	Chlorides mg/l	Sulpha mg/l	Analysis Date
		Ginger Ground:								
07/07/97	9:03	Catchment 1-A	24.6	8.34	0.327	0.163	0.35	25	ND	07/07/97
		Blackwood:								
07/07/97	10:08	2nd. Catchment	24.1	6.37	0.335	0.167	0.40	44	ND	07/07/97
		Underwood:								
07/07/97	9:52	1st Catchment	23.6	6.70	0.418	0.209	0.35	45	7	07/07/97
		Fogarthy:								
07/07/97	9:13	1st. Catchment	23.0	7.68	0.315	0.157	0.10	46	ND	07/07/97
07/07/97	9:17	4th. Catchment (top)	22.7	7.40	0.308	0.154	0.20	32	ND	07/07/97
		Lawyer's:								
07/07/97	7:03	1st. Catchment	23.2	7.44	0.256	0.128	0.10	38	ND	07/07/97
07/07/97	7.07	Middle Catchment	23.4	7.68	0.255	0.127	0.10	41	ND	07/07/97
07/07/97	7:10	Left Catchment	23.4	7.73	0.255	0.127	0.05	43	ND	07/07/97
07/07/97	7:14	Top Catchment	23.1	7.35	0.256	0.128	0.05	41	ND	07/07/97
07/07/97	7:17	Uppermost Catchment	23.1	7.09	0.255	0.127	0.20	45	ND	07/07/97
		Quashie:								
07/07/97	7.44	Left Catchment	23.0	7.50	0.258	0.129	0.10	38	ND	07/07/97
07/07/97	7:48	Catchment under trunk	23.1	7.76	0.259	0.129	0.20	36	ND	07/07/97
07/07/97	7:51	2nd Catchment	23.2	7.73	0.258	0.129	0.10	41	ND	07/07/97
		Olveston:								
07/07/97	6:40	1st. Catchment	23.1	7.41	0.268	0.134	0.20	40	ND	07/07/97
07/07/97	6:43	2nd. Catchment	23.0	7.32	0.267	0.133	0.10	22	ND	07/07/97
07/07/97	6:48	3rd Catchment	23.3	7.08	0.272	0.136	0.10	40	ND	07/07/97
		Hope:								
07/07/97	8:15	Upper left Catchment	23.0	7.29	0.282	0.141	0.05	32	ND	07/07/97
07/07/97	8:19	2nd. Catchment	22.8	7.65	0.277	0.138	0.25	28	ND	07/07/97
07/07/97	8:23	Upper right Catchment	22.8	7.86	0.294	0.147	0.20	58	7	07/07/97
07/07/97	8:28	Upper mid. Catchment	22.9	7.15	0.278	0.139	0.20	40	3	07/07/97

MONTSERRAT VOLCANO OBSERVATORY
RAINWATER ANALYSIS
MAY '97

Sampling Date	Location	Temp C	pH	Conductivity mS/cm	TDS g/l	Fluoride mg/l	Chloride mg/l	Sulphate mg/l	Analysis Date
05/11/97	Weekes	26.7	**5.56**	0.051	0.025	0.25	11.8	3	05/11/97
05/11/97	Police Head Quarters	27.1	**2.98**	*		*	*		05/11/97
05/11/97	Amersham, Upper	26.8	**2.69**	1.525	0.764	0.85	166	37	05/11/97
05/11/97	Upper Amersham trough	26.7	7.74	0.284	0.141	0.20	38	ND	05/11/97
05/11/97	Trial's Reservoir, O'flow	26.8	7.78	0.776	0.388	0.40	103	38	05/11/97
05/17/97	Weekes	29.1	**3.82**	0.272	0.136	**0.65**	50	37	05/18/97
05/17/97	Police Head Quarters	29.2	**2.73**	3.51	**1.75**	**ND**	**710**	**560**	05/18/97
05/17/97	Amersham, Upper	29.3	**2.42**	2.45	**1.22**	**ND**	**315**	107	05/18/97
05/17/97	Amersham, Lower	29.1	**2.78**	4.26	**2.13**	**ND**	**760**	97	05/18/97
05/25/97	Weekes	27.5	**2.61**	1.286	0.644	**>1.50**	133	5	05/25/97
05/25/97	Amersham, Upper	27.4	**1.96**	7.24	**3.62**	0.20	**1000**	93	05/25/97
05/25/97	Amersham, cattle trough	27.5	7.72	0.335	0.168	0.55	56	ND	05/25/97
05/25/97	Trial's Reservoir, O'flow	27.4	7.86	0.827	0.414	0.35	112	42	05/25/97
05/27/97	Hope	25.4	**2.81**	0.739	0.370	**>1.50**	70	ND	05/27/97
05/28/97	Weekes	28.3	**2.52**	1.557	0.778	**>1.50**	126	ND	05/29/97
05/28/97	Molyneaux	28.3	**2.57**	1.312	0.657	**>1.50**	94	7	05/29/97
05/28/97	Dyer's	28.2	**2.84**	0.702	0.351	1.40	80	3	05/29/97
05/28/97	Lawyer's	28.3	**3.03**	0.460	0.230	1.25	52	ND	05/29/97
05/28/97	M V O	28.3	**2.76**	0.863	0.432	**>1.50**	80	3	05/29/97

Insufficient quantities for analysis of other parameters

WHO GUIDELINE VALUES

pH:	6.5 - 8.5
TDS:	1.0 g/l
Fluorides:	1.5 mg/l
Chlorides:	250 mg/l
Sulphates:	250 mg/l

RAINWATER ANALYSIS
APRIL '97

Sampling Date	Location	Temp. C	pH	Conductivity mS/cm	TDS g/l	Fluoride mg/l	Chloride mg/l	Sulphate mg/l	Analysis Date
04/06/97	Weekes	*	*	0.653	0.327	>1.50	100.0	124	04/16/97
04/06/97	Police Head Quarters	*	*	1.015	0.508	**	**	**	04/16/97
04/06/97	Amersham, Lower	*	*	1.223	0.613	**	**	**	04/16/97
04/06/97	Amersham, Upper	*	*	1.291	0.647	**	**	**	04/16/97
04/06/97	Amersham Rd	*	*	2.79	1.39	**	**	**	04/16/97
04/12/97	Weekes	*	*	0.112	0.055	0.55	20.0	3	04/16/97
04/12/97	Police Head Quarters	*	*	0.243	0.121	>1.50	28.5	**	04/16/97
04/12/97	Amersham, Lower	*	*	0.300	0.150	>1.50	64	32	04/16/97
04/12/97	Amersham Upper	*	*	0.235	0.117	1.40	135.5	20	04/16/97
04/29/97	Weekes	27.1	5.21	0.223	0.111	1.20	54.0	8	05/12/97
04/29/97	Police Head Quarters	27.4	3.26	0.622	0.311	0.25	**	**	05/12/97
04/29/97	Amersham, Lower	27.4	2.90	1.166	0.584	>1.50	**		05/12/97
04/29/97	Amersham, Upper	27.2	2.60	1.902	0.953	0.60	**		05/12/97

Problematic pH probe insufficient quantities

WHO GUIDELINE VALUES

pH:	6.5 - 8.5
TDS:	1.0 g/l
Fluorides:	1.5 mg/l
Chlorides:	250 mg/l
Sulphates	250 mg/l

MONTSERRAT VOLCANO OBSERVATORY
RAINWATER ANALYSIS
MARCH - APRIL '97

Sampling Date	Location	Temp. C	pH	Conductivity mS/cm	TDS g/l	Fluoride mg/l	Chloride mg/l	Sulphate mg/l	Analysis Date
03/31/97	Weekes			0.058	0.028	0.20	10.3	ND	04/01/97
03/31/97	Police Head Quarters			1.553	0.727	**>1.50**	16.6	20	04/01/97
03/31/97	Amersham, Lower			1.394	0.698	1.40	158	50	04/01/97
03/31/97	Amersham, Upper			1.566	0.784	1.50	16.2	39	04/01/97
04/06/97	Weekes			0.653	0.327	**>1.50**	100.0	124	04/16/97
04/06/97	Police Head Quarters			1.015	0.508				
04/06/97	Amersham, Lower			1.223	0.613				
04/06/97	Amersham, Upper			1.291	0.647				
04/06/97	Amersham Rd.			2.79	**1.39**				
04/12/97	Weekes			0.112	0.055	0.55	20.0	3	04/16/97
04/12/97	Police Head Quarters			0.243	0.121	**>1.50**	28.5		04/16/97
04/12/97	Amersham, Lower			0.300	0.150	**>1.50**	64	32	04/16/97
04/12/97	Amersham, Upper			0.235	0.117	**1.40**	135.5	20	04/16/97
				WHO GUIDELINE VALUES					
				pH:	6.5 - 8.5				
				TDS:	1.0 g/l				
				Fluorides:	1.5 mg/l				
				Chlorides:	250 mg/l				
				Sulphates:	250 mg/l				

MONTSERRAT VOLCANO OBSERVATORY
RAINWATER ANALYSIS
MARCH '97

Sampling Date	Location	Temp. C	pH	Conductivity mS/cm	TDS g/l	Fluoride mg/l	Chloride mg/l	Sulphate mg/l	Analysis Date
03/03/97	Weekes	18.9	**6.20**	0.402	0.201	0.65	44.0	3	03/03/97
03/03/97	Police Head Quarters	18.9	**3.31**	0.237	0.118	0.80	53	3	03/03/97
03/03/97	Amersham, Lower	18.6	**2.85**	0.427	0.213	1.40	58	3	03/03/97
03/03/97	Amersham, Upper	18.7	**2.60**	0.448	0.224	**>1.50**	158	24	03/03/97
03/03/97	Trial's Res: o' flow	18 7	7.68	0.618	0.309	0.35	90	38	03/03/97
03/09/97	Weekes	19.5	6.49	0.172	0.086	0.30	27.0	ND	03/10/97
03/09/97	Police Head Quarters	19.8	**2.57**	0.926	0.464	**>1.50**	97	ND	03/10/97
03/09/97	Amersham, Lower	19.3	**2.55**	1.162	0.582	**>1.50**	115	16	03/10/97
03/09/97	Amersham, Upper	19.1	**2.39**	2.12	1.05	**>1.50**	250	25	03/10/97
03/16/97	Weekes	20.5	**6.11**	0.070	0.035	0.10	14.4	ND	03/17/97
03/16/97	Police Head Quarters	20.2	**2.81**	0.571	0.285	1.40	68	3	03/17/97
03/16/97	Amersham, Lower	19.7	**2.70**	0.731	0.366	**>1.50**	100	8	03/17/97
03/16/97	Amersham, Upper	19.8	**2.39**	1.883	0.942	1.35	232	34	03/17/97
03/16/97	Trial's Res: o' flow	20.2	7.55	0.659	0.33	0.55	83	40	03/17/97
03/23/97	Amersham, Upper	17.1	**2.28**	2 41	**1.20**	1.45	211	36	03/23/97
03/23/97	Trial's Res: o' flow	17.3	7.63	0.675	0.388	0.40	76	39	03/23/97
				WHO GUIDELINE VALUES					
				pH:	6.5 - 8.5				
				TDS:	1.0 g/l				
				Fluorides:	1.5 mg/l				
				Chlorides:	250 mg/l				
				Sulphates:	250 mg/l				

MONTSERRAT VOLCANO OBSERVATORY
RAINWATER ANALYSIS
FEBRUARY '97

Sampling Date	Location	Temp. C	pH	Conductivity mS/cm	TDS g/l	Fluoride mg/l	Chloride mg/l	Sulphate mg/l	Analysis Date
02/09/97	Weekes	21.8	5.35	0.131	0.065	0.75	15.2	20	02/09/97
02/09/97	Police Head Quarters	22.0	2.96	1.202	0.602	0.95	232	200	02/09/97
02/09/97	Amersham, Lower	21.7	2.90	0.987	0.494	0.95	194	162	02/09/97
02/09/97	Amersham, Upper	21.9	2.48	2.02	1.00	1.00	380	54	02/09/97
02/09/97	Amersham stream	21.6	3.56	2.90	1.44	>1.50	450	130	02/09/97
02/16/97	Weekes	22.9	5.89	0.152	0.075	0.30	30.0	ND	02/17/97
02/16/97	Police Head Quarters	23.3	2.59	1.135	0.568	>1.50	335	22	02/17/97
02/16/97	Amersham, Upper	22.8	2.29	3.26	1.63	ND	570	87	02/17/97
02/16/97	Amersham, Lower	22.6	2.58	1.327	0.665	1.40	194	52	02/17/97
02/16/97	Amersham, Stream	22.2	6.47	3.03	1.51	1.25	900	ND	02/17/97
02/23/97	Fairfield	20.7	7.74	0.604	0.302	0.40	57	39	02/24/97
02/23/97	Police Head Quarters	20.6	2.93	0.463	0.231	>1.50	45	ND	02/24/97
02/23/97	Amersham, Upper	20.5	2.60	1.134	0.567	>1.50	166	16	02/24/97
02/23/97	Amersham, Lower	20.4	2.78	0.756	0.378	>1.50	420	17	02/24/97
02/23/97	Amersham, Stream	20.7	3.99	2.85	1.42	1.30	500	ND	02/24/97

WHO GUIDELINE VALUES	
pH:	6.5 - 8.5
TDS:	1.0 g/l
Fluorides:	1.5 mg/l
Chlorides:	250 mg/l
Sulphates:	250 mg/l

MONTSERRAT VOLCANO OBSERVATORY
RAINWATER ANALYSIS
JANUARY '97 - FEBRUARY '97

Sampling Date	Location	Temp. C	pH	Conductivity mS/cm	TDS g/l	Fluoride mg/l	Chloride mg/l	Sulphate mg/l	Analysis Date
01/26/97	Weekes	23.1	**4.83**	0.186	0.093	0.40	50.0	14	01/27/97
01/26/97	Police Head Quarters	23.2	**3.19**	1.010	0.506	0.65	232.0	ND	01/27/97
01/26/97	Amersham, Lower	23.1	**3.09**	1.983	0.994	ND	**1000.0**	ND	01/27/97
01/26/97	Amersham, Upper	23.3	**2.68**	1.503	0.753	0 25	31.5	93	01/27/97
01/26/97	Amersham, Lwr., Pond	23.2	**3.38**	**4.780**	**2.380**	**>1.5**	**500**	**850**	01/27/97
01/28/97	Weekes	24.6	6.29	0.060	0.029				01/28/97
01/28/97	Amersham, Lower	24.6	2.73	0.905	0.453				01/28/97
01/28/97	Amersham, Upper	24.3	2.69	1.148	0.575				01/28/97
02/02/97	Weekes	23.6	**2.74**	0.894	0.447	**>1.5**	78	3	02/02/97
02/02/97	Police Head Quarters	23.5	**2.96**	0.483	0.241	1.15	33.5	3	02/02/97
02/02/97	Amersham, Lower	23.2	**2.91**	0.639	0.320	1.45	66	ND	02/02/97
02/02/97	Amersham, Upper	23.4	**2.64**	**1.271**	0.637	**>1.5**	140	13	02/02/97
02/09/97	Weekes	21.8	**5.4**	0.131	0.065	0.75	15.2	20	02/09/97
02/09/97	Police Head Quarters	22.0	**3.0**	1.202	0.602	0.95	232	200	02/09/97
02/09/97	Amersham, Lower	21.7	**2.9**	0.987	0.494	0.95	194	162	02/09/97
02/09/97	Amersham, Upper	21.9	**2.5**	**2.02**	1.00	1.00	**380**	54	02/09/97
02/09/97	Amersham stream	21.6	**3.6**	**2.90**	**1.44**	**>1.50**	**450**	130	02/09/97
				WHO GUIDELINE VALUES					
				pH:	6.5 - 8.5				
				TDS:	1.0 g/l				
				Fluorides:	1 5 mg/l				
				Chlorides:	250 mg/l				
				Sulphates:	250 mg/l				

MONTSERRAT VOLCANO OBSERVATORY
RAINWATER ANALYSIS
JANUARY '97

Sampling Date	Location	Temp. C	pH	Conductivity mS/cm	TDS g/l	Fluoride mg/l	Chloride mg/l	Sulphate mg/l	Analysis Date
01/06/97	Weekes	27.2	5.25	0.032	0.016	0.10	8.3	ND	01/06/97
01/06/97	Police Head Quarters	27.5	2.87	1.046	0.524	1.45	166	59	01/06/97
01/06/97	Amersham, Lower	27.0	2.88	0.942	0.471	>1.50	137	31	01/06/97
01/06/97	Amersham, Upper	27.2	2.75	1.154	0.578	>1.50	129	15	01/06/97
01/06/97	Amersham, Lwr., Pond	27.2	3.17	1.414	0.708	0.10	218	21	01/06/97
01/26/97	Weekes	23.1	**4.83**	0.186	0.093	0.40	50.0	14	01/27/97
01/26/97	Police Head Quarters	23.2	**3.19**	**1.010**	0.506	0.65	232.0	ND	01/27/97
01/26/97	Amersham, Lower	23.1	**3.09**	**1.983**	0.994	ND	**1000.0**	ND	01/27/97
01/26/97	Amersham, Upper	23.3	**2.68**	**1.503**	0.753	0.25	31.5	93	01/27/97
01/26/97	Amersham, Lwr., Pond	23.2	**3.38**	**4.780**	**2.380**	**>1.5**	**500**	**850**	01/27/97
01/28/97	Weekes	24.6	6.29	0.060	0.029				01/28/97
01/28/97	Amersham, Lower	24.6	2 73	0.905	0.453				01/28/97
01/28/97	Amersham, Upper	24.3	2.69	1.148	0.575				01/28/97
02/02/97	Weekes	23.6	**2.74**	0.894	0.447	**>1.5**	78	3	02/02/97
02/02/97	Police Head Quarters	23.5	**2.96**	0.483	0.241	1.15	33.5	3	02/02/97
02/02/97	Amersham, Lower	23.2	**2.91**	0.639	0.320	1.45	66	ND	02/02/97
02/02/97	Amersham, Upper	23.4	**2.64**	**1.271**	0.637	**>1.5**	140	13	02/02/97

WHO GUIDELINE VALUES	
pH:	6 5 - 8.5
TDS:	1000 mg/l
Fluorides:	1.5 mg/l
Chlorides:	250 mg/l
Sulphates:	250 mg/l

MONTSERRAT VOLCANO OBSERVATORY
RAINWATER ANALYSIS

Sampling Date	Location	Temp. C	pH	Conductivity mS/cm	TDS g/l	Fluoride mg/l	Chloride mg/l	Sulphate mg/l	Analysis Date
12/8/96	Weekes	26.0	3.97	0.057	0.028	0.35	7.2	ND	1/4/97
12/8/96	Police Head Quarters	25.8	3.35	0.175	0.087	0.85	17.6	5	1/4/97
12/8/96	Amersham, Upper	26.1	3.28	0.249	0.124	1.00	26.0	10	1/4/97
12/8/96	Amersham, Lower	26.2	3.61	0.113	0 056	0.80	16.6	5	1/4/97
12/8/96	Amersham, Lwr., Pond	26.2	3 57	0.780	0.390	1.35	115		1/4/97
12/15/96	Weekes	25.9	5.26	0.034	0.017	0.25	6.6	ND	1/4/97
12/15/96	Police Head Quarters	26.1	3.51	0.144	0.072	0.65	17.1	ND	1/4/97
12/15/96	Amersham, Upper	26.1	3.18	0.267	0.133	0.85	26.0	3	1/4/97
12/15/96	Amersham, Lower	26.0	3.18	0 279	0.139	0.90	30.0	ND	1/4/97
12/15/96	Amersham, Lwr., Pond	26.0	3.27	1.062	0.532	1.40	200	290	1/4/97
12/23/96	Weekes	25.8	5.09	0.012	0 006	0.20	1.6	ND	1/4/97
12/23/96	Police Head Quarters	25.7	4.56	0.020	0.009	0.20	3.0	ND	1/4/97
12/23/96	Amersham, Upper	26.1	3.46	0.185	0.092	1.00	24.0	19	1/4/97
12/23/96	Amersham, Lower	26.0	3.84	0.083	0.041	0.95	11.5	7	1/4/97
12/23/96	Amersham, Lwr., Pond	25 9	3.82	0.722	0.361	1.30	122	170	1/4/97
12/29/96	Weekes	25.4	3.68	0.100	0.050	0.50	13.3	3	1/4/97
12/29/96	Police Head Quarters	25.6	2.88	0 621	0.311	>1.5	8.7	50	1/4/97
12/29/96	Amersham, Upper	25.3	2.56	1.301	0.652	>1.5	133	10	1/4/97
12/29/96	Amersham, Lower	25.5	2.92	0.575	0.288	>1.5	85	ND	1/4/97
12/29/96	Amersham, Lwr., Pond	25.6	3.03	1.028	0.515	0.55	188	3	1/4/97

WHO GUIDELINE VALUES	
pH:	6.5 - 8.5
TDS:	1000 mg/l
Fluorides:	1.5 mg/l
Chlorides:	250 mg/l
Sulphates:	250 mg/l

MONTSERRAT VOLCANO OBSERVATORY
RAINWATER ANALYSIS

Sampling Date	Location	Temp. C	pH	Conductivity mS/cm	TDS g/l	Fluoride mg/l	Chloride mg/l	Sulphate mg/l	Analysis Date
11/14/96	Weekes	28.0	3.89	0 064	0.031	0.35	9.2	ND	11/18/96
11/14/96	Police Head Quarters	28 3	3.60	0.113	0.056	0.20	14.4	3	11/18/96
11/14/96	Amersham, Upper	28.2	3.27	0.261	0.130	0.60	28.5	ND	11/18/96
11/14/96	Amersham, Lower	28.3	3.59	0.116	0.058	0.35	16.2	ND	11/18/96
11/17/96	Weekes	27.9	6.47	0.154	0.077	0.55	20	3	11/18/96
11/17/96	Police Head Quarters	27.9	3.45	0.184	0.092	0.55	27	3	11/18/96
11/17/96	Amersham, Upper	28.1	2.99	0.520	0.260	1.25	80	3	11/18/96
11/17/96	Amersham, Lower	27.5	3.58	0.174	0.087	0.60	25	ND	11/18/96
11/17/96	Amersham, Lwr., Pond	27.4	3.62	1.200	0.601	0.85	148	170	11/18/96
11/24/96	Weekes	27.8	3.69	0.086	0.043	0.40	9.7	ND	11/25/96
11/24/96	Police Head Quarters	27.7	5.79	0.027	0.013	0.20	0.7	3	11/25/96
11/24/96	Amersham, Upper	28.0	3.32	0.205	0.102	0.90	22.5	8	11/25/96
11/24/96	Amersham, Lower	28.0	3.90	0.063	0.031	0.65	7.2	5	11/25/96
12/1/96	Weekes	27.4	4.04	0.032	0.015	0.30	3.8	3	12/2/96
12/1/96	Police Head Quarters	27.6	3.52	0.094	0.046	0.35	8.5	3	12/2/96
12/1/96	Amersham, Upper	27.7	3.16	0.224	0.112	1.00	22.5	12	12/2/96
12/1/96	Amersham, Lower	27.6	3 44	0.158	0.079	0.90	16.6	3	12/2/96
12/1/96	Amersham, Lwr., Pond	27.3	3.48	0.585	0.293	0.95	100.0	148	12/2/96
				WHO GUIDELINE VALUES					
				pH:	6.5 - 8.5				
				TDS:	1000 mg/l				
				Fluorides:	1.5 mg/l				
				Chlorides:	250 mg/l				
				Sulphates:	250 mg/l				

MONTSERRAT VOLCANO OBSERVATORY
RAINWATER ANALYSIS
SEPTEMBER '96 - NOVEMBER '96

Sampling Date	Location	Temp. C	pH	Conductivity mS/cm	TDS g/l	Fluoride mg/l	Chloride mg/l	Sulphate mg/l	Analysis Date
30/09/96	Weekes'	25.8	3.92	0.153	0.076	0.60	35.5	17	30/09/96
20/10/96	Weekes'	27.9	3.53	0.134	0.067	0.60	17.1	ND	21/10/96
26/10/96	Weekes'	27.3	4.19	0.041	0.020	0.20	6.6	ND	30/10/96
4/11/96	Weekes'	27.6	6.35	0 058	0.028	0.40	6.6	ND	5/11/96
10/11/96	Weekes'	27.8	4.16	0.076	0.037	0 40	12.9	ND	11/11/96
30/09/96	Police Station, Plymouth	26.0	3.78	1.683	0.844	1.00	410.0	185	30/09/96
20/10/96	Police Station, Plymouth	26.0	4.22	0.035	0.017	0.40	5.2	ND	21/10/96
26/10/96	Police Station, Plymouth	27.9	3.58	0.109	0.054	0.55	14.8	3	30/10/96
4/11/96	Police Station, Plymouth	27.5	3 80	0.066	0.033	0 35	7.8	ND	5/11/96
10/11/96	Police Station, Plymouth	28.0	3.71	0.107	0.053	0.25	17.1	3	11/11/96
30/09/96	Amersham, Upper	25.6	3.18	1.498	0.750	0.85	355.0	162	30/09/96
20/10/96	Amersham, Upper	28.8	3.68	0.637	0.319	1.10	100.0	36	21/10/96
26/10/96	Amersham, Upper	28.1	3.07	0.365	0.182	0.70	58.0	7	30/10/96
4/11/96	Amersham, Upper	27.0	3.26	0.194	0.097	0.65	20.0	3	5/11/96
10/11/96	Amersham, Upper	27.7	3.43	0.198	0 099	0.50	38.0	3	11/11/96
20/10/96	Amersham, Lower	28.2	2.98	0.106	0 052	0.50	11.8	9	21/10/96
26/10/96	Amersham, Lower	28.1	3.47	0 140	0.070	0.50	18.2	5	30/10/96
4/11/96	Amersham, Lower	27.6	3.41	0.161	0.080	0.55	17.1	ND	5/11/96
10/11/96	Amersham, Lower	27.9	3.04	0.506	0.253	0.10	78.0	18	11/11/96
4/11/96	Amersham, Lwr., Pond	27 7	3.67	1.558	0.780	1.20	300.0	170	5/11/96
10/11/96	Amersham, Lwr., Pond	27 9	3.70	1 636	0.820	1.20	300.0	170	11/11/96
				WHO GUIDELINES VALUES					
				pH:	**6.5 - 8.5**				
				TDS:	**1000 mg/l**				
				Fluorides:	**1.5 mg/l**				
				Chlorides:	**250 mg/l**				
				Sulphates:	**250 mg/l**				