

GROUND - WATER - QUALITY RECORDS

The following remark codes may appear with the water-quality data in this section:

PRINTED OUTPUT	REMARK
E	Estimated value.
M	Constituent was detected but not quantified.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
K	Results based on colony count outside the acceptance range (non-ideal colony count).
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted).
D	Biological organism count equal to or greater than 15 percent (dominant).
&	Biological organism estimated as dominant.
M	Constituent was detected but not quantified.

The following geologic unit codes or aquifer codes may appear with the water-quality data in this section:

CODE	GEOLOGIC UNIT/AQUIFER
000MMPS	METAMORPHOSED SEDIMENTARY ROCKS
000MPVS	METAMORPHOSED VOLCANIC AND SEDIMENTARY ROCKS
110QRNR	COLUMBIA AQUIFER
121CSPKU	YORKTOWN-EASTOVER AQUIFER
124EOCN	CHICKAHOMINY-PINEY POINT AQUIFER
125PLCN	AQUIA AQUIFER
211CRCSU	UPPER POTOMAC AQUIFER
217PPSC	MIDDLE POTOMAC AQUIFER
217PTXN	LOWER POTOMAC AQUIFER
231BLBF	BALLS BLUFF FORMATION
231MNSS	MANASSAS FORMATION
231VINT	VINTA FORMATION
231NWRK	NEWARK GROUP
324NRTN	NORTON FORMATION
324WISE	WISE FORMATION
327LEE	LEE FORMATION
330MSSP	MISSISSIPPIAN SYSTEM
331BLFD	BLUEFIELD FORMATION
340HRVL	HUNTERVILLE CHERT
341BRLR	BRALLIER FORMATION
341CMNG	CHEMUNG FORMATION
341MLBR	MILLBORO SHALE
347DVSL	DEVONIAN-SILURIAN SYSTEMS
361MRBG	MARTINSBURG SHALE
364EGLS	EGGLESTON FORMATION
364MCSN	MOCCASIN FORMATION
371ELBK	ELBROOK FORMATION
377ROME	ROME FORMATION
377SHDY	SHADY FORMATION
400GRGS	GRANITE GNEISS
400PCMB	PRECAMBRIAN ERATHEM

QUALITY OF GROUND WATER

DATA LISTED BY COUNTY

MULTIPLE STATION ANALYSES

Local identifier	Station number	Geologic unit	Date	Time	Sample type	Depth of well, feet below LSD (72008)	Depth to bot sample intrval feet below LSD (72016)	Depth to top sample intrval feet below LSD (72015)	Depth to water level, feet below LSD (72019)
CAROLINE COUNTY									
51M 22	375729077254301	121CSPKU	04-21-03	1130	Environmental	13.4	13	11	5.01
51M 23	375729077254302	121CSPKU	04-21-03	1155	Environmental	11.5	11	9.2	4.83
51M 24	375729077254303	121CSPKU	04-21-03	1215	Environmental	7.5	7.5	2.7	4.74
50M 27	375806077322301	400PCMB	04-03-03	1030	Environmental	24.8	25	20	19.83
50M 26	375807077322101	400PCMB	04-03-03	1120	Environmental	9.1	8.9	6.9	2.79
50M 31	375807077322102	111SDMN	04-03-03	1135	Environmental	6.75	6.0	4.4	2.65
50M 32	375807077322103	111SDMN	04-03-03	1150	Environmental	4.30	3.5	1.9	1.98
50M 25	375808077322001	110QRNR	04-03-03	1245	Environmental	3.6	3.4	1.4	0.22
50M 21	375810077321901	400PCMB	04-03-03	1525	Environmental	10.1	9.9	7.9	4.74
50M 22	375810077321902	400PCMB	04-03-03	1540	Environmental	7.6	7.4	5.4	3.17
50M 14	375842077321301	400PCMB	04-16-03	1150	Environmental	47.5	47	42	4.89
		400PCMB	04-16-03	1155	Replicate	47.5	47	42	4.89
		400PCMB	04-16-03	1200	Replicate	47.5	47	42	4.89
50M 15	375842077321302	121CSPKU	04-16-03	1230	Environmental	27.0	27	25	4.79
51M28	375845077253701	121CSPKU	04-22-03	1000	Environmental	13.3	13	7.8	-0.11
		121CSPKU	04-22-03	1005	Replicate	13.3	13	7.8	-0.11
51M29	375845077253702	121CSPKU	04-22-03	1055	Environmental	4.4	3.9	2.3	0.43
51M30	375845077253703	121CSPKU	04-22-03	1030	Environmental	2.3	1.8	0.20	0.51
		121CSPKU	04-22-03	1035	Replicate	2.3	1.8	0.20	0.51
50M 13	375853077315903	121CSPKU	04-16-03	1010	Environmental	10.2	10	8.0	1.20
50M 9	375904077315401	400PCMB	04-15-03	1610	Environmental	10.35	10	9.2	2.89
50M 8	375908077314801	121CSPKU	04-15-03	1450	Environmental	8.5	8.3	6.0	-0.25
51M 21	385748077255801	121CSPKU	04-16-03	1420	Environmental	17.53	18	13	7.97
51M 20	385759077254501	121CSPKU	04-17-03	1000	Environmental	14.89	15	9.9	6.07
50M 7	385806077322501	400PCMB	04-03-03	0945	Environmental	46.28	46	41	23.73
50M 4	385812077321801	400PCMB	04-03-03	1400	Environmental	15.49	15	10	4.72
50M 18	385812077321802	400PCMB	04-03-03	1415	Environmental	14.7	14	12	4.59
50M 19	385812077321803	121CSPKU	04-03-03	1425	Environmental	11.5	11	9.3	4.34
50M 20	385812077321804	111SDMN	04-03-03	1455	Environmental	8.55	8.1	6.5	3.51
50M 2	385814077321401	400PCMB	04-15-03	1004	Environmental	39.94	40	35	9.45
50M 3	385814077321402	121CSPKU	04-15-03	1050	Environmental	25.14	25	20	6.30
50M 16	385814077321403	121CSPKU	04-15-03	1120	Environmental	16.2	16	11	3.43
50M 17	385814077321404	121CSPKU	04-15-03	1140	Environmental	10.5	10	4.7	3.23
51M 17	385819077254501	121CSPKU	04-21-03	1555	Environmental	13.98	14	9.0	6.45
51M 15	385832077253501	121CSPKU	04-21-03	1350	Environmental	25.29	25	20	13.16
CLARKE COUNTY									
46WS 1	390405078014201	371CCCG	08-13-03	0930	Environmental	--	--	--	--
46WS 22	390457078033801	367BKMN	08-13-03	1520	Environmental	--	--	--	--
46WS 3	390519078023701	371CCCG	08-13-03	1150	Environmental	--	--	--	--
46WS 2	390653078041401	367BKMN	08-20-03	1555	Environmental	--	--	--	--
46XS 8	391029078012701	367BKMN	08-13-03	1755	Environmental	--	--	--	--
FREDERICK COUNTY									
FAY SPRING	01616075	364EDBG	08-11-03	1450	Environmental	--	--	--	--
VAUCLUSE									
SPRING	01635070	367BKMN	08-12-03	1830	Environmental	--	--	--	--
44W 8	390226078170601	367BKMN	08-15-03	1045	Environmental	155	--	--	--
45Y 5	391757078095402	361MRBG	08-12-03	1415	Environmental	200	--	--	--
GLOUCESTER COUNTY									
57H 22	372621076404203	125PLCN	02-11-03	1040	Environmental	370	370	350	88.25
JAMES CITY COUNTY									
56GS 3	371524076480801	110QRNR	05-13-03	1345	Environmental	--	--	--	--
56H 40	372313076480602	211CRCSU	01-30-03	1615	Environmental	490	480	400	187.00
56H 28 SOW 177D	372506076511704	125PLCN	02-14-03	1040	Environmental	321	300	290	179.49

QUALITY OF GROUND WATER
DATA LISTED BY COUNTY—Continued

401

MULTIPLE STATION ANALYSES

Local identifier	Date	Altitude of land surface feet (72000)	Flow rate, instantaneous gal/min (00059)	Pump or flow period prior to sampling, minutes (72004)	Sampling depth, feet (00003)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd 25 degC (00095)	Temperature, air, deg C (00020)
CAROLINE COUNTY											
51M 22	04-21-03	110	--	--	--	755	3.9	38	5.0	218	--
51M 23	04-21-03	110	--	--	--	755	6.2	60	4.5	239	--
51M 24	04-21-03	110	--	--	--	754	5.2	51	5.4	328	--
50M 27	04-03-03	240	--	--	--	749	8.3	82	4.8	125	--
50M 26	04-03-03	215	--	--	--	749	5.7	51	4.8	76	--
50M 31	04-03-03	215	--	--	--	749	1.2	11	4.6	83	--
50M 32	04-03-03	215	--	--	--	749	7.3	65	6.2	51	--
50M 25	04-03-03	210	--	--	--	749	5.5	49	--	70	--
50M 21	04-03-03	220	--	--	--	749	4.1	36	--	45	--
50M 22	04-03-03	220	--	--	--	749	0.7	6	--	33	--
50M 14	04-16-03	265	--	--	--	--	7.3	--	5.5	36	--
	04-16-03	265	--	--	--	--	7.3	--	5.5	36	--
	04-16-03	265	--	--	--	--	7.3	--	5.5	36	--
50M 15	04-16-03	265	--	--	--	--	7.6	--	4.2	23	--
51M28	04-22-03	175	--	--	--	747	1.7	16	4.6	231	--
	04-22-03	175	--	--	--	747	1.7	16	4.6	231	--
51M29	04-22-03	175	--	--	--	746	1.7	17	5.5	224	--
51M30	04-22-03	175	--	--	--	747	3.9	42	6.2	234	--
	04-22-03	175	--	--	--	747	3.9	42	6.2	234	--
50M 13	04-16-03	240	--	--	--	--	5.4	--	5.6	18	--
50M 9	04-15-03	215	--	--	--	--	<0.3	--	5.4	324	--
50M 8	04-15-03	200	--	--	--	--	M	--	6.5	455	--
51M 21	04-16-03	185	--	--	--	--	3.9	--	4.8	75	--
51M 20	04-17-03	115	--	--	--	--	2.9	--	4.8	314	--
50M 7	04-03-03	240	--	--	--	749	0.5	5	6.3	66	--
50M 4	04-03-03	235	--	--	--	749	6.7	62	--	43	--
50M 18	04-03-03	235	--	--	--	749	6.0	55	--	63	--
50M 19	04-03-03	235	--	--	--	749	6.1	53	--	46	--
50M 20	04-03-03	235	--	--	--	749	3.0	26	--	70	--
50M 2	04-15-03	250	--	--	--	--	2.2	--	6.1	52	--
50M 3	04-15-03	250	--	--	--	--	3.9	--	5.2	52	--
50M 16	04-15-03	250	--	--	--	--	4.2	--	4.6	49	--
50M 17	04-15-03	250	--	--	--	--	4.0	--	4.0	46	--
51M 17	04-21-03	130	--	--	--	750	3.5	33	6.0	158	--
51M 15	04-21-03	190	--	--	--	--	5.4	--	4.3	73	--
CLARKE COUNTY											
46WS 1	08-13-03	470	--	--	--	--	7.8	--	6.8	569	--
46WS 22	08-13-03	535	--	--	--	--	2.6	--	6.8	604	--
46WS 3	08-13-03	510	--	--	--	--	6.2	--	6.7	563	--
46WS 2	08-20-03	608	--	--	--	--	0.9	--	6.3	533	--
46XS 8	08-13-03	580	--	--	--	--	5.2	--	6.7	659	--
FREDERICK COUNTY											
FAY SPRING VAUCLUSE SPRING	08-11-03	--	--	--	--	--	6.5	--	6.9	694	--
	08-12-03	--	--	--	--	--	6.5	--	6.8	546	--
44W 8	08-15-03	735	--	--	--	--	5.8	--	6.8	720	--
45Y 5	08-12-03	770	--	--	--	--	0.3	--	7.0	840	--
GLOUCESTER COUNTY											
57H 22	02-11-03	6	2.9	105	110	757	1.0	10	8.8	821	4.1
JAMES CITY COUNTY											
56GS 3	05-13-03	45	--	--	--	765	1.5	15	6.9	348	--
56H 40	01-30-03	105	3.4	250	190	762	0.4	4	7.9	829	1.3
56H 28 SOW 177D	02-14-03	103	2.8	107	220	759	1.7	18	7.9	580	3.5

QUALITY OF GROUND WATER
DATA LISTED BY COUNTY—Continued

MULTIPLE STATION ANALYSES

Local identifier	Date	Temper- ature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alka- linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicar- bonate, wat flt incrm. titr., field, mg/L (00453)	Carbon- ate, wat flt incrm. titr., field, mg/L (00452)	Bromide water, fltrd, mg/L (71870)	Chlor- ide, water, fltrd, mg/L (00940)
CAROLINE COUNTY											
51M 22	04-21-03	13.7	--	--	--	--	--	--	--	--	--
51M 23	04-21-03	14.0	--	--	--	--	--	--	--	--	--
51M 24	04-21-03	14.4	--	--	--	--	--	--	--	--	--
50M 27	04-03-03	14.0	--	--	--	--	--	--	--	--	--
50M 26	04-03-03	9.9	--	--	--	--	--	--	--	--	--
50M 31	04-03-03	9.2	--	--	--	--	--	--	--	--	--
50M 32	04-03-03	9.3	--	--	--	--	--	--	--	--	--
50M 25	04-03-03	9.4	--	--	--	--	--	--	--	--	--
50M 21	04-03-03	9.3	--	--	--	--	--	--	--	--	--
50M 22	04-03-03	8.5	--	--	--	--	--	--	--	--	--
50M 14	04-16-03	17.5	--	--	--	--	--	--	--	--	--
	04-16-03	17.5	--	--	--	--	--	--	--	--	--
	04-16-03	17.5	--	--	--	--	--	--	--	--	--
50M 15	04-16-03	17.5	--	--	--	--	--	--	--	--	--
51M28	04-22-03	12.0	--	--	--	--	--	--	--	--	--
	04-22-03	12.0	--	--	--	--	--	--	--	--	--
51M29	04-22-03	13.2	--	--	--	--	--	--	--	--	--
51M30	04-22-03	17.5	--	--	--	--	--	--	--	--	--
	04-22-03	17.5	--	--	--	--	--	--	--	--	--
50M 13	04-16-03	14.6	--	--	--	--	--	--	--	--	--
50M 9	04-15-03	17.0	--	--	--	--	--	--	--	--	--
50M 8	04-15-03	15.6	--	--	--	--	--	--	--	--	--
51M 21	04-16-03	14.2	--	--	--	--	--	--	--	--	--
51M 20	04-17-03	12.5	--	--	--	--	--	--	--	--	--
50M 7	04-03-03	14.6	--	--	--	--	--	--	--	--	--
50M 4	04-03-03	11.1	--	--	--	--	--	--	--	--	--
50M 18	04-03-03	10.7	--	--	--	--	--	--	--	--	--
50M 19	04-03-03	8.8	--	--	--	--	--	--	--	--	--
50M 20	04-03-03	8.3	--	--	--	--	--	--	--	--	--
50M 2	04-15-03	15.5	--	--	--	--	--	--	--	--	--
50M 3	04-15-03	16.8	--	--	--	--	--	--	--	--	--
50M 16	04-15-03	13.0	--	--	--	--	--	--	--	--	--
50M 17	04-15-03	13.3	--	--	--	--	--	--	--	--	--
51M 17	04-21-03	12.0	--	--	--	--	--	--	--	--	--
51M 15	04-21-03	13.8	--	--	--	--	--	--	--	--	--
CLARKE COUNTY											
46WS 1	08-13-03	13.0	--	--	--	--	--	--	--	--	--
46WS 22	08-13-03	12.3	--	--	--	--	--	--	--	--	--
46WS 3	08-13-03	12.2	--	--	--	--	--	--	--	--	--
46WS 2	08-20-03	13.6	--	--	--	--	--	--	--	--	--
46XS 8	08-13-03	12.5	--	--	--	--	--	--	--	--	--
FREDERICK COUNTY											
FAY SPRING	08-11-03	13.0	--	--	--	--	--	--	--	--	--
VAUCLUSE	08-12-03	12.8	--	--	--	--	--	--	--	--	--
SPRING	08-15-03	14.6	--	--	--	--	--	--	--	--	--
44W 8	08-12-03	13.4	--	--	--	--	--	--	--	--	--
45Y 5											
GLOUCESTER COUNTY											
57H 22	02-11-03	18.1	1.63	0.530	7.04	206	515	607	10	0.03	6.71
JAMES CITY COUNTY											
56GS 3	05-13-03	14.9	68.0	1.06	0.94	3.55	162	198	<1	0.03	8.48
56H 40	01-30-03	18.7	3.74	1.24	7.83	202	384	465	1	0.19	46.2
56H 28 SOW 177D	02-14-03	18.4	9.37	3.00	10.2	118	314	381	<1	0.06	11.4

DATA LISTED BY COUNTY—Continued

MULTIPLE STATION ANALYSES

Local identifier	Date	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Sulfide water, unfltrd field, mg/L (99119)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)
CAROLINE COUNTY											
51M 22	04-21-03	--	--	--	--	--	E.09	<0.015	6.53	<0.002	<0.007
51M 23	04-21-03	--	--	--	--	--	E.09	<0.015	10.9	<0.002	<0.007
51M 24	04-21-03	--	--	--	--	--	0.12	<0.015	17.1	<0.002	<0.007
50M 27	04-03-03	--	--	--	--	--	<0.10	<0.015	7.51	<0.002	0.009
50M 26	04-03-03	--	--	--	--	--	<0.10	<0.015	3.80	<0.002	<0.007
50M 31	04-03-03	--	--	--	--	--	E.09	<0.015	2.45	<0.002	<0.007
50M 32	04-03-03	--	--	--	--	--	0.22	0.038	E.015	<0.002	<0.007
50M 25	04-03-03	--	--	--	--	--	E.06	E.013	2.45	<0.002	<0.007
50M 21	04-03-03	--	--	--	--	--	E.09	E.009	<0.022	<0.002	<0.007
50M 22	04-03-03	--	--	--	--	--	E.09	E.011	<0.022	<0.002	<0.007
50M 14	04-16-03	--	--	--	--	--	<0.10	<0.015	0.295	<0.002	<0.007
	04-16-03	--	--	--	--	--	<0.10	<0.015	0.288	<0.002	<0.007
	04-16-03	--	--	--	--	--	<0.10	<0.015	0.30	<0.002	<0.007
50M 15	04-16-03	--	--	--	--	--	<0.10	<0.015	0.672	<0.002	<0.007
51M28	04-22-03	--	--	--	--	--	E.08	<0.015	16.8	<0.002	<0.007
	04-22-03	--	--	--	--	--	E.09	<0.015	17.0	<0.002	<0.007
51M29	04-22-03	--	--	--	--	--	0.22	E.009	16.4	E.002	<0.007
51M30	04-22-03	--	--	--	--	--	0.23	E.010	16.0	<0.002	<0.007
	04-22-03	--	--	--	--	--	0.19	E.008	15.1	<0.002	<0.007
50M 13	04-16-03	--	--	--	--	--	<0.10	<0.015	0.090	<0.002	<0.007
50M 9	04-15-03	--	--	--	--	--	1.3	1.29	E.015	<0.002	<0.007
50M 8	04-15-03	--	--	--	--	--	9.9	8.17	E.019	<0.002	<0.007
51M 21	04-16-03	--	--	--	--	--	E.06	<0.015	<0.022	<0.002	<0.007
51M 20	04-17-03	--	--	--	--	--	0.14	0.021	7.00	0.006	<0.007
50M 7	04-03-03	--	--	--	--	--	E.06	E.008	0.096	<0.002	0.036
50M 4	04-03-03	--	--	--	--	--	<0.10	<0.015	3.40	<0.002	<0.007
50M 18	04-03-03	--	--	--	--	--	<0.10	<0.015	2.29	<0.002	<0.007
50M 19	04-03-03	--	--	--	--	--	<0.10	<0.015	2.85	<0.002	<0.007
50M 20	04-03-03	--	--	--	--	--	0.17	0.034	<0.06	<0.002	<0.007
50M 2	04-15-03	--	--	--	--	--	E.06	<0.015	0.317	<0.002	<0.007
50M 3	04-15-03	--	--	--	--	--	<0.10	<0.015	2.82	<0.002	<0.007
50M 16	04-15-03	--	--	--	--	--	<0.10	<0.015	3.24	<0.002	<0.007
50M 17	04-15-03	--	--	--	--	--	<0.10	<0.015	2.88	<0.002	<0.007
51M 17	04-21-03	--	--	--	--	--	0.17	E.009	8.83	<0.002	<0.007
51M 15	04-21-03	--	--	--	--	--	<0.10	<0.015	2.62	<0.002	<0.007
CLARKE COUNTY											
46WS 1	08-13-03	--	--	--	--	--	--	--	--	--	--
46WS 22	08-13-03	--	--	--	--	--	--	--	--	--	--
46WS 3	08-13-03	--	--	--	--	--	--	--	--	--	--
46WS 2	08-20-03	--	--	--	--	--	--	--	--	--	--
46XS 8	08-13-03	--	--	--	--	--	--	--	--	--	--
FREDERICK COUNTY											
FAY SPRING	08-11-03	--	--	--	--	--	--	--	--	--	--
VAUCLUSE	08-12-03	--	--	--	--	--	--	--	--	--	--
SPRING	08-15-03	--	--	--	--	--	--	--	--	--	--
44W 8	08-12-03	--	--	--	--	--	--	--	--	--	--
45Y 5	08-12-03	--	--	--	--	--	--	--	--	--	--
GLOUCESTER COUNTY											
57H 22	02-11-03	2.90	15.6	6.5	0.020	543	--	--	--	--	--
JAMES CITY COUNTY											
56GS 3	05-13-03	<0.17	13.0	9.3	--	211	<0.10	E.011	1.23	E.002	0.200
56H 40	01-30-03	2.13	26.7	27.3	0.010	532	--	--	--	--	--
56H 28 SOW 177D	02-14-03	1.62	21.1	10.1	<0.005	371	--	--	--	--	--

QUALITY OF GROUND WATER
DATA LISTED BY COUNTY—Continued

MULTIPLE STATION ANALYSES

Local identifier	Date	Phos- phorus, water, fltrd, mg/L (00666)	Iron, water, fltrd, ug/L (01046)	Mangan- ese, water, fltrd, ug/L (01056)	Tritium 2-sigma water unfltrd pCi/L (75985)	Tritium water unfltrd pCi/L (07000)
CAROLINE COUNTY						
51M 22	04-21-03	E.003	--	--	--	--
51M 23	04-21-03	E.003	--	--	--	--
51M 24	04-21-03	0.006	--	--	--	--
50M 27	04-03-03	0.010	--	--	--	--
50M 26	04-03-03	<0.004	--	--	--	--
50M 31	04-03-03	<0.004	--	--	--	--
50M 32	04-03-03	E.003	--	--	--	--
50M 25	04-03-03	<0.004	--	--	--	--
50M 21	04-03-03	E.003	--	--	--	--
50M 22	04-03-03	<0.004	--	--	--	--
50M 14	04-16-03	E.004	--	--	--	--
	04-16-03	E.003	--	--	--	--
	04-16-03	E.004	--	--	--	--
50M 15	04-16-03	<0.004	--	--	--	--
51M28	04-22-03	<0.004	--	--	--	--
	04-22-03	<0.004	--	--	--	--
51M29	04-22-03	E.004	--	--	--	--
51M30	04-22-03	E.003	--	--	--	--
	04-22-03	E.003	--	--	--	--
50M 13	04-16-03	<0.004	--	--	--	--
50M 9	04-15-03	<0.004	--	--	--	--
50M 8	04-15-03	0.025	--	--	--	--
51M 21	04-16-03	E.003	--	--	--	--
51M 20	04-17-03	E.002	--	--	--	--
50M 7	04-03-03	0.037	--	--	--	--
50M 4	04-03-03	<0.004	--	--	--	--
50M 18	04-03-03	<0.004	--	--	--	--
50M 19	04-03-03	<0.004	--	--	--	--
50M 20	04-03-03	<0.004	--	--	--	--
50M 2	04-15-03	0.006	--	--	--	--
50M 3	04-15-03	E.002	--	--	--	--
50M 16	04-15-03	E.002	--	--	--	--
50M 17	04-15-03	<0.004	--	--	--	--
51M 17	04-21-03	E.003	--	--	--	--
51M 15	04-21-03	<0.004	--	--	--	--
CLARKE COUNTY						
46WS 1	08-13-03	--	--	--	1.6	24
46WS 22	08-13-03	--	--	--	1.3	23
46WS 3	08-13-03	--	--	--	1.6	26
46WS 2	08-20-03	--	--	--	1.6	26
46XS 8	08-13-03	--	--	--	1.6	24
FREDERICK COUNTY						
FAY SPRING	08-11-03	--	--	--	1.6	25
VAUCLUSE						
SPRING	08-12-03	--	--	--	1.6	24
44W 8	08-15-03	--	--	--	1.6	28
45Y 5	08-12-03	--	--	--	1.9	29
GLOUCESTER COUNTY						
57H 22	02-11-03	--	39	2.4	--	--
JAMES CITY COUNTY						
56GS 3	05-13-03	0.20	<10	<2.0	--	--
56H 40	01-30-03	--	34	8.5	--	--
56H 28 SOW 177D	02-14-03	--	25	12.4	--	--

QUALITY OF GROUND WATER
DATA LISTED BY COUNTY—Continued

405

MULTIPLE STATION ANALYSES

Local identifier	Station number	Geologic unit	Date	Time	Sample type	Depth of well, feet below LSD (72008)	Depth to bot sample intrval feet below LSD (72016)	Depth to top sample intrval feet below LSD (72015)	Depth to water level, feet below LSD (72019)
KING WILLIAM COUNTY									
56J 13	373317076490401	217PTXN	02-13-03	1130	Environmental	1,280	1,280	938	--
55J 17	373523076523403	211CRCSU	03-05-03	0915	Environmental	495	490	470	217.10
WARREN COUNTY									
46VS 1	385338078063901	400CTCN	08-14-03	1440	Environmental	--	--	--	--
46V 1	385341078063301	400CTCN	08-14-03	1700	Environmental	--	--	--	--
45VS 2	385843078110701	364LCLR	08-21-03	1140	Environmental	--	--	--	--
45VS 1	385937078082901	367BKMN	08-14-03	1030	Environmental	--	--	--	--
CITY OF CHESAPEAKE									
61B 2 SOW 091A	364227076074701	121CSPKU	08-20-03	1620	Environmental	97.0	97	92	8.60
61B 7 SOW 091D	364227076074704	110QRNR	08-20-03	1515	Environmental	22.0	22	17	2.72
CITY OF NEWPORT NEWS									
58F 7	370908076343501	211CRCSU	05-02-03	1130	Environmental	543	543	493	115.00
CITY OF SUFFOLK									
57C 22 SOW 099B	364703076383702	217PPSC	08-27-03	1145	Environmental	694	694	684	171.13
57C 23 SOW 099C	364703076383703	211CRCSU	06-11-03	1520	Environmental	478	478	468	171.20
CITY OF VIRGINIA BEACH									
62B 18	364126076013401	121CSPKU	08-26-03	1250	Environmental	135	130	120	6.13
62B 22	364325076011501	121CSPKU	08-25-03	1505	Environmental	135	130	120	10.71
		121CSPKU	08-25-03	1520	Replicate	135	130	120	10.71
62C 2 SOW 092A	364713076030701	121CSPKU	08-21-03	1330	Environmental	102	102	97	13.46
62C 3 SOW 092B	364715076030801	121CSPKU	08-21-03	1500	Environmental	58	58	53	7.60
62C 9 SOW 172A	364745076004301	121CSPKU	08-19-03	1040	Environmental	170	165	155	10.32
62C 10 SOW 172B	364745076004302	121CSPKU	08-19-03	1250	Environmental	280	280	270	13.80
62C 11 SOW 172C	364745076004303	--	08-20-03	0920	Blank	--	--	--	--
		110QRNR	08-20-03	0925	Environmental	--	30	20	21.40
62C 22	364746076004301	121CSPKU	08-19-03	1510	Environmental	145	140	130	12.45
CITY OF WINCHESTER									
OLD TOWN SPRING	01615515	371CCCG	08-12-03	1000	Environmental	--	--	--	--

QUALITY OF GROUND WATER
DATA LISTED BY COUNTY—Continued

MULTIPLE STATION ANALYSES

Local identifier	Date	Altitude of land surface feet (72000)	Flow rate, instantaneous gal/min (00059)	Pump or flow period prior to sampling, minutes (72004)	Sampling depth, feet (00003)	Turbidity, water, unfltrd field, NTU (61028)	Barometric pressure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)
KING WILLIAM COUNTY											
56J 13	02-13-03	27	1,500	--	--	--	759	0.3	3	7.9	1,440
55J 17	03-05-03	90	34.0	43	--	--	752	--	--	8.1	440
WARREN COUNTY											
46VS 1	08-14-03	1,790	--	--	--	--	--	10.0	--	5.6	60
46V 1	08-14-03	1,790	--	--	--	--	--	11.0	--	7.1	120
45VS 2	08-21-03	500	--	--	--	--	--	5.0	--	6.3	560
45VS 1	08-14-03	550	--	--	--	--	--	4.3	--	6.8	450
CITY OF CHESAPEAKE											
61B 2 SOW 091A	08-20-03	15	4.1	45	50.0	--	--	2.1	23	7.4	1,690
61B 7 SOW 091D	08-20-03	15	2.7	40	19.0	--	--	0.5	5	5.9	325
CITY OF NEWPORT NEWS											
58F 7	05-02-03	31	480	1,640	210	--	755	0.3	3	7.8	2,100
CITY OF SUFFOLK											
57C 22 SOW 099B	08-27-03	72	3.5	329	175	--	759	1.8	20	8.1	730
57C 23 SOW 099C	06-11-03	72	4.5	140	190	--	759	0.1	1	8.0	640
CITY OF VIRGINIA BEACH											
62B 18	08-26-03	10	0.80	--	48.0	--	762	1.9	21	8.2	946
62B 22	08-25-03	10	4.1	50	48.0	--	763	0.5	6	7.9	355
	08-25-03	10	4.1	50	48.0	--	763	0.5	6	7.9	355
62C 2 SOW 092A	08-21-03	14	4.0	80	49.0	--	--	0.8	8	7.3	690
62C 3 SOW 092B	08-21-03	14	2.7	73	47.0	35	--	0.2	2	6.4	225
62C 9 SOW 172A	08-19-03	17	5.4	55	50.0	--	766	0.5	6	7.8	427
62C 10 SOW 172B	08-19-03	17	3.7	70	60.0	--	766	5.8	62	7.6	5,190
62C 11 SOW 172C	08-20-03	19	--	--	--	--	--	--	--	--	--
	08-20-03	19	2.6	35	28.0	--	--	0.2	2	6.8	252
62C 22	08-19-03	17	4.1	43	50.0	--	766	0.2	3	7.6	428
CITY OF WINCHESTER											
OLD TOWN SPRING	08-12-03	--	--	--	--	--	--	6.2	--	6.8	690

QUALITY OF GROUND WATER
DATA LISTED BY COUNTY—Continued

407

MULTIPLE STATION ANALYSES

Local identifier	Date	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Calcium water, fltnd, mg/L (00915)	Magnes- ium, water, fltnd, mg/L (00925)	Potas- sium, water, fltnd, mg/L (00935)	Sodium, water, fltnd, mg/L (00930)	Alka- linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicar- bonate, wat flt incrm. titr., field, mg/L (00453)	Carbon- ate, wat flt incrm. titr., field, mg/L (00452)	Bromide water, fltnd, mg/L (71870)
KING WILLIAM COUNTY											
56J 13	02-13-03	7.4	24.8	2.48	0.510	3.55	324	591	712	4	0.46
55J 17	03-05-03	14.1	18.9	0.62	0.169	3.09	114	252	304	2	0.03
WARREN COUNTY											
46VS 1	08-14-03	--	10.4	--	--	--	--	--	--	--	--
46V 1	08-14-03	--	11.2	--	--	--	--	--	--	--	--
45VS 2	08-21-03	--	13.3	--	--	--	--	--	--	--	--
45VS 1	08-14-03	--	13.7	--	--	--	--	--	--	--	--
CITY OF CHESAPEAKE											
61B 2 SOW 091A	08-20-03	--	18.2	57.4	26.3	22.8	210	271	331	<1	1.14
61B 7 SOW 091D	08-20-03	--	18.7	11.5	10.4	1.38	17.9	74	90	<1	0.15
CITY OF NEWPORT NEWS											
58F 7	05-02-03	24.0	20.6	3.82	1.80	12.4	431	373	448	3	1.58
CITY OF SUFFOLK											
57C 22 SOW 099B	08-27-03	33.3	21.0	2.72	1.64	8.15	167	379	462	<1	0.06
57C 23 SOW 099C	06-11-03	32.0	19.6	1.06	0.310	5.88	150	338	405	4	0.04
CITY OF VIRGINIA BEACH											
62B 18	08-26-03	--	19.7	12.0	8.86	19.1	163	278	339	<1	0.43
62B 22	08-25-03	--	17.5	47.4	5.06	1.03	12.9	97	E119	<1	0.11
	08-25-03	--	17.5	47.1	5.02	0.97	12.7	97	E119	<1	0.11
62C 2 SOW 092A	08-21-03	--	17.6	81.0	15.9	9.26	33.6	284	347	<1	0.14
62C 3 SOW 092B	08-21-03	--	17.3	6.74	4.93	1.09	23.0	59	E71	<1	0.25
62C 9 SOW 172A	08-19-03	--	17.4	55.3	6.81	5.49	17.9	178	217	<1	0.05
62C 10 SOW 172B	08-19-03	--	17.8	44.5	63.2	37.5	892	349	426	<1	4.80
62C 11 SOW 172C	08-20-03	--	--	1.30	0.126	E.13	0.39	--	--	--	0.06
	08-20-03	--	17.2	26.9	4.47	1.36	13.3	102	124	<1	0.19
62C 22	08-19-03	--	17.5	58.0	5.44	4.73	16.7	183	223	<1	0.04
CITY OF WINCHESTER											
OLD TOWN SPRING	08-12-03	--	13.4	--	--	--	--	--	--	--	--

QUALITY OF GROUND WATER
DATA LISTED BY COUNTY—Continued

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	Page		Page
A		CHESAPEAKE (INDEPENDENT CITY)	
ACCOMACK COUNTY		Quality of ground water	405–408
Well 64H 5 SOW 102C	44	Well 59C 29 SOW 163A	92
Well 64H 6 SOW 102A	45	Well 59C 30 SOW 163B	93
Well 64H 7 SOW 102B	46	Well 59C 31 SOW 163C	94
Well 64K 7 SOW 106C	47	Well 60B 3 SOW 090A	95
Well 64K 8 SOW 106B	48	Well 60B 4 SOW 090B	96
Well 64K 9 SOW 106A	49	Well 60C 41 SOW 164	97
Well 64K 10 SOW 108A	50	Well 61B 5 SOW 091B	98
Well 64K 11 SOW 108B	51	Well 61B 6 SOW 091C	99
Well 64K 12 SOW 108C	52	Well 61B 12 SOW 091E	100
Well 65K 23 SOW 109C	53	Well 61B 13 SOW 091F	101
Well 65K 24 SOW 109A	54	Well 61B 14 SOW 091G	102
Well 65K 25 SOW 109B	55	Well 61B 15 SOW 091H	103
Well 65K 26 SOW 109S	56	Well 61B 16 SOW 091J	104
Well 65K 27 SOW 114A	57	Well 61B 17 SOW 091K	105
Well 65K 28 SOW 114B	58	Well 61B 19 SOW 091M	106
Well 65K 29 SOW 114C	59	CHESTERFIELD COUNTY	
Well 65K 30 SOW 114S	60	Well 51H 92	107
Well 65K 59 SOW 183A	61	Well 51H 95	108
Well 65K 60 SOW 183B	62	Well 51H130	109
Well 65K 61 SOW 183C	63	Well 52G 22	110
Well 65K 62 SOW 183D	64	Well 52G 24	111
Well 66K 2 SOW 101C	65	CLARKE COUNTY	
Well 66K 3 SOW 101B	66	Quality of ground water	400–404
Well 66K 4 SOW 101A	67	Well 46W175	112
Well 66L 1 SOW 107C	68	COLONIAL HEIGHTS (INDEPENDENT CITY)	
Well 66L 2 SOW 107A	69	WELL 51G 1	113
Well 66L 3 SOW 107B	70	Contents	v
Well 66M 16 SOW 110A	71	Conversion factors	inside back cover
Well 66M 17 SOW 110B	72		
Well 66M 18 SOW 110C	73	D	
Well 66M 19 SOW 110S	74	Definition of terms	13–28
Well 66M 23 SOW 181A	75		
Well 66M 24 SOW 181B	76	E	
Well 66M 25 SOW 181C	77		
Well 66M 26 SOW 181D	78	ESSEX COUNTY	
Well 66M 27 SOW 181E	79	Well 55N 2	114
Well 67M 10 SOW 115A	80	Explanation of ground-water records	5–12
Well 67M 11 SOW 115B	81		
Well 67M 13 SOW 115D	82	F	
ALBEMARLE COUNTY		FAIRFAX COUNTY	
Well 43N 1 SOW 028	83	Well 52V 2	115
APPOMATTOX COUNTY		Figure 1. Monthly ground-water levels at key observation	
Well 41H 2 SOW 012	84	wells in water-table aquifer	4
ARLINGTON COUNTY		2. Ground-water levels in selected observation	
Well 54V 3	85	wells in confined Coastal Plain aquifers	6
AUGUSTA COUNTY		3. System of numbering wells	7
Well 38P 1 SOW 070	86	4. Map of Virginia showing location of ground-water	
		observation wells	34–35
B		5. Map of southeastern Virginia showing location	
BUCKINGHAM COUNTY		of ground-water observation wells	36–37
Well 41H 3	87	6. Map of York-James peninsula and vicinity in	
		Virginia showing location of ground-water	
C		observation wells	38–39
CAROLINE COUNTY		7. Map of Delmarva peninsula in Virginia showing	
Quality of ground water	400–404	location of ground-water observation wells	40
Well 52N 5	88	8. Map of Frederick County in Virginia showing	
Well 52N 6	89	location of ground-water observation wells	41
Well 53M 1	90	9. Map of Virginia Beach in Virginia showing location	
CHARLES CITY COUNTY		of ground-water observation wells	42
Well 54G 13 SOW 067	91	FRANKLIN (INDEPENDENT CITY)	
		Well 55B 67 SOW 145D	116

	Page		Page
FREDERICK COUNTY		I	
Quality of ground water	400-404	Illustrations, list of.....	v
Well 44W 2	117	Introduction	1
Well 44W 4	118	ISLE OF WIGHT COUNTY	
Well 44W 5	119	Well 55B 16	171
Well 44W 6	120	Well 55B 36	172
Well 44W 7	121	Well 55B 62 SOW 096B.....	173
Well 44W 8	122	Well 57C 25 SOW 149	174
Well 44W 9	123	Well 57C 26 SOW 149B.....	175
Well 44W 10	124	Well 57C 28 SOW 149D	176
Well 44W 11	125	Well 57D 21 SOW 143A	177
Well 44W 12	126	Well 57D 22 SOW 143B	178
Well 44W 13	127	Well 57D 23 SOW 143C	179
Well 44W 14	128	Well 57E 10 SOW 144B	180
Well 44W 16	129	Well 57E 14 SOW 144A	181
Well 44W 17	130	Well 57E 15 SOW 144C.....	182
Well 44W 18	131	J	
Well 44W 19	132	JAMES CITY COUNTY	
Well 44X 2	133	Quality of ground water.....	400-404
Well 44X 5	134	Well 55H 20	183
Well 44X 6	135	Well 56F 1 SOW 018.....	184
Well 45W 16	136	Well 56G 57	185
Well 45W 17	137	Well 56H 22 SOW 135A	186
Well 45X 3	138	Well 56H 25 SOW 177A	187
Well 45X 4	139	Well 56H 26 SOW 177B	188
Well 45X 9	140	Well 56H 27 SOW 177C	189
Well 45X 11	141	Well 56H 28 SOW 177D	190
Well 45X 12	142	Well 56H 29 SOW 177E.....	191
Well 45X 13	143	Well 56H 30 SOW 177F.....	192
Well 45X 14	144	Well 56H 31 SOW 135B	193
Well 45X 15	145	Well 57H 14 SOW 095	194
Well 45Y 1	146	K	
Well 45Y 2	147	KING AND QUEEN COUNTY	
Well 45Y 3	148	Well 54K 6 SOW 064	195
Well 45Y 4	149	Well 54L 10	196
Well 45Y 5	150	Well 56J 11 SOW 073	197
Well 45Y 6	151	Well 57J 3 SOW 074	198
Well 45Y 8	152	KING GEORGE COUNTY	
Well 46X108	153	Well 54Q 21	199
Well 46X110	154	Well 54Q 55	200
Well 46Y 1	155	Well 54Q 56	201
G		Well 54Q 57	202
GLOUCESTER COUNTY		Well 54Q 58	203
Quality of ground water	400-404	Well 54Q 61	204
Well 57H 20 SOW 192A.....	156	Well 54Q 62	205
Well 57H 21 SOW 192B.....	157	Well 54Q 65	206
Well 57H 22 SOW 192C.....	158	Well 54Q 66	207
Well 58H 6 SOW 168A	159	Well 54Q 69	208
Well 58H 7 SOW 168B	160	Well 54Q 70	209
Well 58H 8 SOW 168C	161	Well 54Q 71	210
Ground-water level records.....	44-397	Well 54Q 72	211
H		Well 54Q 73	212
HANOVER COUNTY		Well 54Q 74	213
Well 51M 11	162	Well 54Q 79	214
Well 52J 56	163	Well 54Q 81	215
Well 53K 19 SOW 080	164	Well 54Q 86	216
HENRICO COUNTY		Well 54R 2	217
Well 50J 1 SOW 023.....	165	KING WILLIAM COUNTY	
Well 51J 13	166	Quality of ground water.....	405-408
Well 51K 14 SOW 137	167	Well 56J 2	218
Well 52H 3 SOW 136	168	Well 56J 10	219
Well 52H 16	169		
Well 52H 17	170		

	Page		Page
L			
LANCASTER COUNTY		Well 63G 15 SOW 104C	253
Well 59K 1 SOW 015	220	Well 63G 16 SOW 104B	254
Well 59K 9	221	Well 63G 17 SOW 104A	255
LOUDOUN COUNTY		Well 63G 22 SOW 111A	256
Well 49Y 1 SOW 022	222	Well 63G 23 SOW 111B	257
Well 50W 4C	223	Well 63G 25 SOW 111S	258
LOUISA COUNTY		Well 63H 4 SOW 103C	259
Well 45N 1	224	Well 63H 5 SOW 103B	260
Well 45N 4	225	Well 63H 6 SOW 103A	261
Well 46N 1 SOW 056	226	Well 63J 1 SOW 113A	262
M		Well 63J 2 SOW 113B	263
Map of Delmarva peninsula in Virginia showing location		Well 63J 3 SOW 113C	264
of ground-water observation wells	40	Well 64J 9 SOW 112A	265
Map of Frederick County in Virginia showing location		Well 64J 10 SOW 112B	266
of ground-water observation wells	41	Well 64J 11 SOW 112C	267
Map of southeastern Virginia showing location of		O	
ground-water observation wells	36-37	ORANGE COUNTY	
Map of Virginia Beach in Virginia showing location of		Well 45P 1 SOW 030	268
ground-water observation wells	42	P	
Map of Virginia showing location of ground-water		PATRICK COUNTY	
observation wells	34-35	Well 30C 1 SOW 010	269
Map of York-James peninsula and vicinity in Virginia		PORTSMOUTH (INDEPENDENT CITY)	
showing location of ground-water observation		Well 60C 27	270
wells	38-39	Well 60D 2	271
MATHEWS COUNTY		Preface	iii
Well 59H 1	227	PRINCE GEORGE COUNTY	
MIDDLESEX COUNTY		Well 52E 2	272
Well 58J 5	228	Well 52F 1 SOW 038	273
Well 59J 16	229	PRINCE WILLIAM COUNTY	
Well 59J 25	230	Well 49U 1	274
Well 59J 27	231	Well 49V 1	275
MONTGOMERY COUNTY		Well 51S 7	276
Well 27F 2 SOW 019	232	Well 52S 4	277
N		Well 53T 2 SOW 029	278
NEW KENT COUNTY		Publications on techniques of water resources	
Well 53J 6	233	investigations	29-33
Well 55J 6	234	PULASKI COUNTY	
NEWPORT NEWS (INDEPENDENT CITY)		Well 25E 1 SOW 009	279
Quality of ground water	405-408	Well 25E 2 SOW 059	280
Well 58F 1 SOW 002	235	Q	
Well 58F 50 SOW 171A	236	Quality of Ground Water	399-408
Well 58F 51 SOW 171B	237	R	
Well 58F 52 SOW 171C	238	Records collected by the State of Virginia	2
Well 58F 53 SOW 171D	239	RICHMOND COUNTY	
Well 58F 54 SOW 171E	240	Well 57M 4	281
Well 58F 55 SOW 171F	241	ROANOKE (INDEPENDENT CITY)	
NORFOLK (INDEPENDENT CITY)		Well 31G 1 SOW 008	282
Well 61C 1	242	ROCKBRIDGE COUNTY	
NORTHAMPTON COUNTY		Well 35K 1 SOW 063	283
Well 62G 15 SOW 121	243	ROCKINGHAM COUNTY	
Well 63F 15 SOW 105A	244	Well 41Q 1	284
Well 63F 16 SOW 105C	245	S	
Well 63F 17 SOW 105B	246	SOUTHAMPTON COUNTY	
Well 63F 34	247	Well 51B 3	285
Well 63F 51 SOW 182A	248	Well 52A 1	286
Well 63F 52 SOW 182B	249		
Well 63F 53 SOW 182C	250		
Well 63F 54 SOW 182D	251		
Well 63F 55 SOW 182E	252		

[illegible]

CONVERSION FACTORS

Multiply	By	To obtain
Length		
inch (in.)	2.54×10^1	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^0	kilometer
Area		
acre	4.047×10^3	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi ²)	2.590×10^0	square kilometer
Volume		
gallon (gal)	3.785×10^0	liter
	3.785×10^0	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^3	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft ³)	2.832×10^1	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft ³ /s) d]	2.447×10^3	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^3	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
Flow		
cubic foot per second (ft ³ /s)	2.832×10^1	liter per second
	2.832×10^1	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^1	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
Mass		
ton (short)	9.072×10^{-1}	megagram or metric ton

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

$$^{\circ}\text{F} = (1.8 \times ^{\circ}\text{C}) + 32$$