01481000 BRANDYWINE CREEK AT CHADDS FORD, PA

LOCATION.--Lat 39°52'11", long 75°35'37", Delaware County, Hydrologic Unit 02040205, on left bank 27 ft upstream from Penn Central Railroad bridge at Chadds Ford, 150 ft upstream from Harvey Run, and 1,200 ft downstream from highway bridge on U.S. Highway 1.

DRAINAGE AREA.--287 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1911 to September 1953, October 1962 to current year. Prior to October 1911, monthly discharge only, published in WSP 1302.

REVISED RECORDS.--WSP 756: Drainage area. WSP 1202: 1917-18(M), 1919-20, 1922-31(M), 1932-33, 1934(M), 1936, 1938(P), 1939(M), 1942, 1944-46(M), WDR PA-98-1: 1996-97 (M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 150.45 ft above sea level. Prior to May 21, 1927, nonrecording gage at same site and datum

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated since November 1973 by Marsh Creek Reservoir (station 01480684) about 17 mi upstream. Satellite and landline telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 19, 1955, reached a stage of 14.64 ft, gage datum, discharge, about 16,400 ft³/s.

DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP				DISCHAR	GL, CODIC	ILLITERS		EAN VALUE))) 10 BLI II	LIMBER 2000	,	
2 278 278 331 301 e270 544 750 504 298 266 213 219 3 257 816 330 307 e260 495 729 473 279 249 204 177 4 341 337 328 364 e260 464 974 448 264 371 832 207 5 750 263 319 730 e255 423 792 441 272 264 288 158 6 400 259 588 402 e250 402 668 430 477 233 224 138 7 305 243 697 358 e240 380 620 411 455 222 220 131 9 234 219 358 325 e240 377 604 370 335 207 205 131 9 234 219 358 325 e240 374 1070 357 299 197 188 134 10 736 217 423 408 e250 377 604 370 357 299 197 188 134 10 736 217 423 408 e250 376 879 378 281 227 184 134 11 779 213 553 593 e290 411 656 664 264 210 172 130 12 355 203 397 396 e380 741 621 399 288 191 187 132 133 302 202 375 361 e300 535 604 373 518 183 337 291 15 268 199 1230 e290 736 426 583 439 336 295 284 768 16 268 199 1230 e290 736 426 583 439 336 295 284 768 16 268 199 1230 e290 736 426 583 439 336 295 284 181 180 18 18 386 184 473 e240 511 626 678 110 792 400 313 258 181 180 18 18 386 184 473 e240 511 604 47 691 593 186 201 181 659 269 181 442 250 1160 447 691 593 186 201 181 659 269 181 442 250 1160 447 691 593 186 210 181 180 181 180 181 386 184 473 e240 551 160 447 691 593 186 210 181 180 181 289 288 191 187 150 177 233 303 192 396 e240 634 2570 886 1570 558 1050 191 150 177 23 303 192 396 e240 634 2570 886 1570 558 1050 191 150 177 23 303 192 396 e240 634 2570 886 1570 558 1050 191 150 177 23 303 192 396 e240 634 2570 886 1570 558 1050 191 150 177 23 303 192 396 e240 634 2570 886 1570 558 1050 191 150 177 23 303 192 396 e240 634 2570 888 982 505 175 147 165 24 278 212 358 e240 785 1690 716 695 54 491 375 285 184 340 292 299 434 306 e260 803 1100 554 491 375 285 184 340 292 299 434 306 e260 803 1100 554 491 375 285 184 340 292 299 434 306 e260 803 1100 554 491 375 285 184 340 292 299 434 306 e260 803 1100 554 491 375 285 184 340 300 207 382 298 e250 908 492 342 447 215 149 257 312 299 299 434 306 e260 803 1100 552 457 491 375 285 184 340 292 299 434 306 e260 803 1100 552 457 491 375 285 184 340 292 299 434 306 e260 803 1100 552 457 461 141 1790 257 312 299 343 1448 8983 15886 1570 982 1480 2	DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
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5 750 263 319 730 e255 423 792 441 272 264 288 158 6 400 259 588 402 e250 402 668 430 477 233 224 138 7 305 223 401 336 e250 377 604 370 335 207 205 131 8 270 223 401 336 e250 377 604 370 335 207 205 131 10 736 217 423 408 e250 369 879 378 281 227 184 134 11 779 213 553 593 e290 411 656 664 264 210 172 130 12 355 203 397 396 e380 741 621 399 258 191 187 132	3	257	816	330	307	e260	495	729	473	279	249	204	177
5 750 263 319 730 e255 423 792 441 272 264 288 158 6 400 259 588 402 e250 402 668 430 477 233 224 138 7 305 223 401 336 e250 377 604 370 335 207 205 131 8 270 223 401 336 e250 377 604 370 335 207 205 131 10 736 217 423 408 e250 369 879 378 281 227 184 134 11 779 213 553 593 e290 411 656 664 264 210 172 130 12 355 203 397 396 e380 741 621 399 258 191 187 132	4	341	337	328	364	e260	464	974	448	264	371	832	207
7 305 243 697 358 e240 380 620 411 455 222 220 131 8 270 223 401 336 e250 377 604 370 335 207 205 131 9 234 219 358 325 e240 374 1070 357 299 197 188 134 10 736 217 423 408 e250 369 879 378 281 227 184 134 134 11 779 213 553 593 e290 411 656 664 264 210 172 130 12 355 203 397 396 e380 741 621 399 258 191 187 132 13 302 202 375 361 e300 535 604 373 518 183 337 291 14 294 200 1130 330 e520 452 585 651 370 266 240 231 15 268 199 1230 e290 736 426 583 439 336 295 284 768 16 268 199 1230 e290 736 426 583 439 336 295 284 768 16 268 199 1230 e290 736 426 583 439 336 295 284 768 18 386 184 473 e240 511 626 678 1110 792 400 313 258 181 818 180 18 386 184 473 e240 511 626 1010 352 479 216 170 159 19 269 181 442 e250 1160 447 691 593 1860 210 181 263 20 366 181 442 e250 1160 447 691 593 1860 210 181 263 20 366 181 445 e260 690 987 787 706 389 207 154 229 22 286 193 450 e240 567 8860 1570 558 1050 191 150 177 23 303 192 396 e240 567 8860 1570 558 1050 191 150 177 23 303 192 396 e240 567 8860 1570 558 1050 191 150 177 254 278 212 358 e240 785 1690 716 955 368 174 155 171 252 248 221 358 e240 785 1690 716 955 368 174 155 171 252 248 221 358 e240 682 1120 562 465 283 546 137 691 282 240 682 1120 562 465 283 546 137 691 282 292 294 434 306 e240 682 1120 562 465 283 546 137 691 282 292 434 319 e260 912 1320 669 679 251 246 166 137 691 282 240 270 382 298 e250 908 492 342 447 215 149 257 31 205 229 e320 434 306 e260 803 1100 522 457 617 230 166 295 30 207 382 298 e250 908 492 342 447 215 149 257 31 205 229 e320 73 88 424 785 1100 524 477 215 149 257 31 205 229 e320 908 492 342 447 215 149 257 31 205 229 e320 908 492 342 447 215 149 257 31 205 229 e320 908 492 342 447 215 149 257 31 205 229 e320 908 492 342 447 215 149 257 31 205 229 e320 908 492 342 447 215 149 257 31 205 229 e320 908 492 342 447 215 149 257 31 205 229 e320 908 492 342 447 215 149 257 31 205 229 e320 908 492 342 447 215 149 257 31 205 229 e320 908 492 342 447 215 149 257 31 2		750	263	319	730	e255	423	792	441	272	264	288	158
8 270 223 401 336 e250 377 604 370 335 207 205 131 9 234 219 358 325 e240 374 1070 357 299 197 188 134 10 736 217 423 408 e250 369 879 378 281 227 184 134 11 779 213 553 593 e290 411 656 664 264 210 172 130 12 355 203 397 396 e380 741 621 399 258 191 187 132 13 3302 202 2375 361 e300 535 604 373 518 183 337 291 14 294 200 1130 330 e520 452 585 651 370 266 240 231 15 268 199 1230 e290 547 412 658 396 <t< td=""><td>6</td><td>400</td><td>259</td><td>588</td><td>402</td><td>e250</td><td>402</td><td>668</td><td>430</td><td>477</td><td>233</td><td>224</td><td>138</td></t<>	6	400	259	588	402	e250	402	668	430	477	233	224	138
9 234 219 358 325 e240 374 1070 357 299 197 188 134 107 1736 217 423 408 e250 369 879 378 281 227 184 134 134 11 779 213 553 593 e290 411 656 664 264 210 172 130 12 355 203 397 396 e380 741 621 399 258 191 187 132 13 302 202 375 361 e300 535 604 373 518 183 337 291 14 294 200 1130 330 e520 452 585 651 370 266 240 231 15 268 199 1230 e290 736 426 583 439 336 295 284 768 16 268 199 1230 e290 736 426 583 439 336 295 284 768 16 268 199 652 e290 547 412 658 396 332 258 204 270 17 296 186 531 e260 678 1110 792 400 313 258 181 180 183 386 184 473 e240 551 160 447 691 593 1860 210 181 263 20 366 181 449 e250 1160 447 691 593 1860 210 181 263 20 366 181 449 e250 1160 447 691 593 1860 210 181 263 20 366 181 459 e260 670 880 1570 558 1050 191 150 177 23 303 192 396 e240 634 2570 818 982 505 175 147 165 248 221 319 e250 912 1320 659 672 320 188 153 180 266 226 240 682 1120 562 465 283 546 137 691 282 286 193 450 e240 785 1690 716 955 368 174 155 171 25 248 221 319 e250 912 1320 659 672 320 188 153 180 266 226 232 274 319 e250 912 1320 659 672 320 188 153 180 266 227 2286 1610 322 e240 682 1120 562 465 283 546 137 691 282 282 286 193 3450 e240 634 2570 818 982 505 175 147 165 248 221 319 e250 912 1320 659 672 320 188 153 180 266 226 232 274 319 e250 912 1320 659 672 320 188 153 180 266 226 232 274 319 e250 912 1320 659 672 320 188 153 180 266 226 232 274 319 e250 912 1320 659 672 320 188 153 180 266 290 434 306 e260 803 1100 522 457 617 230 166 295 312 298 6240 682 1120 562 465 283 546 137 691 28 28 213 362 298 e240 682 1120 562 465 283 546 137 691 28 28 213 362 298 e250 908 492 342 447 215 149 257 31 205 299 e320 825 320 219 183 219 183 210 205 299 e320 825 320 219 183 210 181 220 546 240 251 215 296 447 215 149 257 31 205 299 e320 825 320 219 183 219 183 210 120 546 240 546 321 179 257 246 1610 322 298 e250 908 492 342 447 215 149 257 31 205 299 e320 825 320 219 183 219 183 219 183 219 183 250 219 183 250 219 18	7	305	243	697	358	e240	380	620	411	455	222	220	131
10 736 217 423 408 e250 369 879 378 281 227 184 134 11 779 213 553 593 e290 411 656 664 264 210 172 130 12 355 203 397 396 e380 741 621 399 258 191 187 132 13 302 202 375 361 e300 535 604 373 518 183 337 291 14 294 200 1130 330 e520 452 585 651 370 266 240 231 15 268 199 1230 e290 736 426 583 439 336 295 284 768 16 268 190 652 e290 547 412 658 396 332 258 204 270 <td>8</td> <td>270</td> <td>223</td> <td>401</td> <td>336</td> <td>e250</td> <td>377</td> <td>604</td> <td>370</td> <td>335</td> <td>207</td> <td>205</td> <td>131</td>	8	270	223	401	336	e250	377	604	370	335	207	205	131
10 736 217 423 408 e250 369 879 378 281 227 184 134 11 779 213 553 593 e290 411 656 664 264 210 172 130 12 355 203 397 396 e380 741 621 399 258 191 187 132 13 302 202 375 361 e300 535 604 373 518 183 337 291 14 294 200 1130 330 e520 452 585 651 370 266 240 231 15 268 199 1230 e290 736 426 583 439 336 295 284 768 16 268 190 652 e290 547 412 658 396 332 258 204 270 <td></td> <td>234</td> <td>219</td> <td>358</td> <td>325</td> <td>e240</td> <td>374</td> <td>1070</td> <td>357</td> <td>299</td> <td>197</td> <td>188</td> <td></td>		234	219	358	325	e240	374	1070	357	299	197	188	
12 355 203 397 396 e380 741 621 399 258 191 187 132 13 302 202 375 361 e300 535 604 373 518 183 337 291 15 268 199 1230 e290 736 426 583 439 336 295 284 768 16 268 190 652 e290 547 412 658 396 332 258 204 270 17 296 186 531 e260 678 1110 792 400 313 258 181 180 18 386 184 473 e240 511 626 1010 352 479 216 170 159 19 269 181 442 e250 1160 447 691 593 1860 210 181 263 <	10	736	217	423	408	e250	369	879	378	281	227	184	134
12 355 203 397 396 e380 741 621 399 258 191 187 132 13 302 202 375 361 e300 535 604 373 518 183 337 291 15 268 199 1230 e290 736 426 585 651 370 266 240 231 15 268 199 1230 e290 736 426 583 439 336 295 284 768 16 268 190 652 e290 547 412 658 396 332 258 204 270 17 296 186 531 e260 678 1110 792 400 313 258 181 180 18 386 184 473 e240 511 626 1010 352 479 216 170 159 19 269 181 442 e250 1160 447 691	11	779	213	553	593	e290	411	656	664	264	210	172	130
14 294 200 1130 330 e520 452 585 651 370 266 240 231 15 268 199 1230 e290 736 426 583 439 336 295 284 768 16 268 190 652 e290 547 412 658 396 332 258 204 270 17 296 186 531 e260 678 1110 792 400 313 258 181 180 188 386 184 473 e240 511 626 1010 352 479 216 170 159 199 269 181 442 e250 1160 447 691 593 1860 210 181 263 20 366 181 459 e260 1040 412 606 699 551 246 166 552 21 389 194 601 e250 690 987 787 706 389	12	355	203	397	396	e380	741	621	399	258	191	187	
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23 303 192 396 e240 634 2570 818 982 505 175 147 165 24 278 212 358 e240 785 1690 716 955 368 174 155 171 25 248 221 319 e250 912 1320 659 672 320 188 153 180 26 232 274 319 e260 916 1170 629 512 297 466 141 1790 27 226 1610 322 e240 682 1120 562 465 283 546 137 691 28 213 629 312 e240 1170 1960 554 491 375 285 184 340 29 209 434 306 e260 803 1100 522 457 617 230 166 295 30 207 382 298 e250 908 492 342 447 215 149 257 31 205 299 e320 825													
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29 209 434 306 e260 803 1100 522 457 617 230 166 295 30 207 382 298 e250 908 492 342 447 215 149 257 31 205 299 e320 825 320 219 183 TOTAL 10392 9343 14348 9893 15866 32526 21983 15710 13201 7769 6660 8884 MEAN 335 311 463 319 548 1049 733 507 440 251 215 296 MAX 779 1610 1230 730 1170 8860 1570 982 1860 546 832 1790	27	226	1610	322	e240	682	1120	562	465	283	546	137	691
29 209 434 306 e260 803 1100 522 457 617 230 166 295 30 207 382 298 e250 908 492 342 447 215 149 257 31 205 299 e320 825 320 219 183 TOTAL 10392 9343 14348 9893 15866 32526 21983 15710 13201 7769 6660 8884 MEAN 335 311 463 319 548 1049 733 507 440 251 215 296 MAX 779 1610 1230 730 1170 8860 1570 982 1860 546 832 1790	28	213	629	312	e240	1170	1960	554	491	375	285	184	340
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31 205 299 e320 825 320 219 183 TOTAL 10392 9343 14348 9893 15886 32526 21983 15710 13201 7769 6660 8884 MEAN 335 311 463 319 548 1049 733 507 440 251 215 296 MAX 779 1610 1230 730 1170 8860 1570 982 1860 546 832 1790		207	382	298	e250		908	492	342	447	215	149	
MEAN 335 311 463 319 548 1049 733 507 440 251 215 296 MAX 779 1610 1230 730 1170 8860 1570 982 1860 546 832 1790													
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e Estimated.

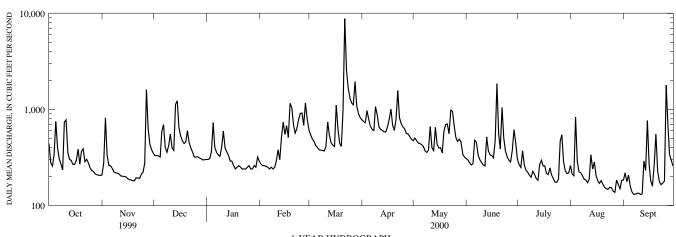
01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

STATIST	ICS OF	MONTHLY MEA	N DATA	FOR WATER	YEARS 197	4 - 2000,	BY WATER	YEAR (WY)	(SINCE	REGULAT	CION)		
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP
MEAN MAX	274 924	328 751	465 1634	546 1664	544 1308	673 1713	632 1509	522 1097	384 833	338 1153	238 562		280 906
(WY) MIN	1997 113	1997 114	1997 112	1979 106	1979 217	1994 195	1983 200	1989 249	1975 153	1975 95.8	1996 94.5		1979 93.2
(WY)	1998	1999	1999	1981	1992	1981	1985	1999	1999	1999	1995		1980
SUMMARY	STATIS	STICS	FO	R 1999 CAL	ENDAR YEAR	F	OR 2000 W	ATER YEAR		WATER	YEARS 1974	. –	2000
ANNUAL				133073			166595						
ANNUAL HIGHEST		L MEAN		365			455			435 714			1984
LOWEST HIGHEST				10100	Sep 17		8860	Mar 22		199 10600	Jan		1981 1978
LOWEST				47	Aug 5		130	Sep 11		47	Aug		1999
		DAY MINIMUM PEAK FLOW		50	Aug 2		133 a 13700	Sep 6 Mar 22		50 a 26900	Aug Sep		1999 1999
INSTANT	'ANEOUS	PEAK STAGE LOW FLOW					12.7 126			17.	.15 Sep	17	1999 1980
10 PERC				589			788	sep /		816	<u>4 5ep</u>	13	1900
50 PERC				261			329			299			
90 PERC	ENT EXC	CEEDS		82			184			126			

STATIS	TICS OF	MONTHLY M	EAN DATA	FOR WATER	YEARS	1911-1953,	1963-1973,	BY WATER	YEAR (WY)	(PRIO	R TO REGU	LATION)
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	219	301	348	444	570	605	530	435	364	309	278	230
MAX	666	625	827	1020	1130	1366	1043	946	1144	802	1089	1050
(WY)	1972	1972	1973	1936	1971	1920	1973	1952	1972	1919	1933	1971
MIN	67.7	98.3	114	145	214	247	226	175	149	91.1	82.1	59.4
(WY)	1964	1942	1966	1966	1934	1931	1963	1926	1963	1963	1930	1932

SUMMARY STATISTICS	WATER YEAR	1963-1973
ANNUAL MEAN	385	
HIGHEST ANNUAL MEAN	625	1928
LOWEST ANNUAL MEAN	218	1932
HIGHEST DAILY MEAN	9590	Aug 24 1933
LOWEST DAILY MEAN	42	Sep 12 1966
ANNUAL SEVEN-DAY MINIMUM	45	Sep 7 1966
INSTANTANEOUS PEAK FLOW	b 23800	Jun 22 1972
INSTANTANEOUS PEAK STAGE	16.56	Jun 22 1972
INSTANTANEOUS LOW FLOW	4.9	Oct 2 1942
ANNUAL RUNOFF (CFSM)	1.34	
ANNUAL RUNOFF (INCHES)	18.23	
10 PERCENT EXCEEDS	700	
50 PERCENT EXCEEDS	274	
90 PERCENT EXCEEDS	118	

- a From rating curve extended above 13,200 ft 3 /s on basis of area-velocity study at gage height 16.56 ft. b From rating curve extended above 9,000 ft 3 /s on basis of area-velocity study.



1-YEAR HYDROGRAPH OCTOBER 1, 1999 TO SEPTEMBER 30, 2000

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963 to current year.

PERIOD OF DAILY RECORD.—
SPECIFIC CONDUCTANCE: October 1965 to current year.

SPECIFIC CONDUCTANCE: October 1965 to current year.

PH: October 1965 to September 1966, December 1971 to current year.

WATER TEMPERATURES: October 1964 to current year.

DISSOLVED OXYGEN: October 1971 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1963 to September 1978.

INSTRUMENTATION.--Water-quality monitor since August 1971.

REMARKS.—Specific conductance records rated fair. pH records rated good. Water temperature and dissolved oxygen records rated fair. Data collection discontinued during winter months since 1981 water year. Other interruptions in the record were due to malfunctions of the equipment.

EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 556 microsiemens, June 16, 1991; minimum, 42 microsiemens, Nov. 26, 1979. pH: Maximum, 9.8, Apr. 9, 1975; minimum, 6.1, Feb. 22, 1976. WATER TEMPERATURE: Maximum, 31.0°C, July 18, 19, 1977, Aug. 15, 1988, July 6, 1999; minimum, 0.0°C, many days during winters. DISSOLVED OXYGEN: Maximum, 17.1 mg/L, Dec. 5, 1976; minimum, 3.0 mg/L, June 21, 1984.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027)	DIS- CHARGE, INST. (CUBIC FEET PER SECOND) (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
OCT 1999 28	1200	80020	1028	228	11.1	7.1	288	11.0	100	25	9.6
	DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC WATER UNFLTRD IT FIELD (MG/L AS CACO3) (00419)	AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	
(OCT 1999 28	3.1	. 6	14	23	56	25	.1	11	22	
	DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	BORON, DIS- SOLVED (µG/L AS B) (01020)	IRON DIS- SOLVED (µG/L AS FE) (01046)			
(OCT 1999 28	<.020	3.30	<.010	.057	164	49	50			

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	COLI- FORM, FECAL, 0.45 µM-MF (COLS./ 100 ML) (31616)
MAR 2000									
13	1135	1028	1028	516	12.3	7.7	242	6.9	800
28	1005	1028	1028	2450	9.4	7.3	175	10.8	830
APR									
10	1230	1028	1028	858	11.8	7.7	208	9.8	220
26	1330	1028	1028	632	11.0	7.6	229	11.4	36
MAY 04	1300	1028	1028	457	11.1	7.7	241	17.4	к72
16	1400	1028	1028	406	10.0	7.7	235	16.3	170
23	1600	1028	1028	936	9.6	7.5	190	14.6	K3200
JUN	1000	1020	1020	,,,,	5.0		170	11.0	10200
01	1315	1028	1028	315	10.0	7.8	256	18.1	K44
13	1215	1028	1028	599	7.2	7.4	244	20.4	1700
27	1415	1028	1028	296	8.0	7.7	265	25.1	200
JUL									
12	1500	1028	1028	199	9.6	8.0	281	24.3	K53
21	1145 1030	1028 1028	1028	217 334	8.8 8.2	7.7	278 284	21.0	140
26 AUG	1030	1028	1028	334	8.2	7.7	284	20.2	1900
02	1200	1028	1028	208	8.4	7.7	284	24.4	200
10	1430	1028	1028	196	8.6	8.0	302	26.5	110
24	1100	1028	1028	167	8.7	7.9	324	20.0	K71
SEP						, -			
05	1540	1028	1028	162	9.2	7.7	302	22.7	50
20	1240	1028	1028	429	8.6	7.5	222	18.1	3900

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

BIOLOGICAL DATA BENTHIC MACROINVERTEBRATES

REMARKS.--Samples were collected using a Hess sampler with a mesh size of 500 μ m. Each sample covered a total area of 3.2 m².

Date	10/28/99
Benthic Macroinvertebrate	Count
Nematoda (Nematodes) Nemertea (Probosas Worms)	2
Enopla	
Hoplonemertea Tetrastemmatidae	
Prostoma	4
Mollusca	4
Bivalvia (Clams)	
Veneroida	
Corbiculidae	
Corbicula	7
Sphaeriidae	15
Annelida (Segmented Worms)	13
Oligochaeta	4
Arthropoda	-
Acariformes	
Hydrachnidia (Water Mites)	7
Crustacea	•
Amphipoda (Scuds)	
Gammaridae	
Gammarus	3
Isopoda (Sow Bugs)	
Asellidae	
Caecidotea	1
Insecta	
Ephemeroptera (Mayflies)	
Baetidae	
Baetis	1
Pseudocloeon	5
Caenidae	
Caenis	3
Ephemerellidae	
Serratella	10
Heptageniidae	
Stenonema	13
Isonychiidae	
Isonychia	2
Leptophlebiidae	
Tricorythodes	1
Odonata (Dragonflies and Damselflies)	
Corduliidae	
Somatochlora	1
Gomphidae	
Dromogomphus	2
Plecoptera (Stoneflies)	
Capniidae	
Allocapnia	2
Perlidae	
Acroneuria	1
Taeniopterygidae	
Taeniopteryx	27
Megaloptera	
Corydalidae (Fishflies and Dobsonflies)
Corydalus	1

Date	10/28/99
Benthic Macroinvertebrate	Count
Trichoptera (Caddisflies)	
Glossosomatidae	
Protoptila	12
Helicopsychidae	
Helicopsyche	4
Hydropsychidae	
Cheumatopsyche	45
Hydropsyche	39
Limnephilidae	
Hydatophylax	1
Philopotamidae	
Chimarra	4
Coleoptera (Beetles)	
Elmidae (Riffle Beetles)	
Dubiraphia	8
Optioservus	611
Oulimnius	24
Stenelmis	553
Hydrophilidae	
Berosus	9
Psephenidae (Water Pennies)	
Psephenus	27
Diptera (True Flies)	
Chironomidae (Midges)	174
Simuliidae (Black Flies)	
Simulium	7
Tipulidae (Crane Flies)	
Antocha	1
Total count	1631
Total number of taxa	36
TOTAL HUMBEL OF CANA	

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		1	NOVEMBER		I	DECEMBER			JANUARY	
1 2	243 266	202 243	225 257	356 	325	341	264	249	253			
3	278	266	272									
4 5	273 259	259 217	269 235	269 271	234 260	253 266						
6	249	218	236	273	266	270						
7 8	263 270	249 262	259 267	280 289	271 276	277 280						
9	274	267	270	293	280	285						
10	276	216	261	294	280	284						
11 12	219 252	201 219	211 236	294 298	279 289	287 293						
13	264	252	260	299	290	293						
14	275	263	272	294	282	290						
15	277	273	276	297	281	288						
16	277	272	275	290	285	288						
17 18	279 278	262 261	271 270	294 294	289 289	292 291						
19	266	250	258	292	284	289						
20	270	262	266	288	282	286						
21	270	254	260	287	279	283						
22 23	271	256	263	286	280 279	283 283						
23	316 289	271 278	286 284	286 285	279	283						
25	290	275	281	279	271	275						
26	289	280	285	274	263	271						
27	288	281	285	264	178	207						
28	292	284	287	232	197	218						
29 30	286 286	281 281	284 284	251 261	231 246	246 256						
31	334	283	288									
MONTH	334	201	266	356	178	277	264	249	253			
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN FEBRUAR		MAX	MIN MARCH	MEAN	MAX	MIN APRIL	MEAN	MAX	MIN MAY	MEAN
1	MAX			MAX 250		MEAN 245	MAX 226		MEAN 223	MAX 239		MEAN
1 2		FEBRUAR	 	250 257	MARCH 241 249	245 253	226 224	APRIL 221 222	223 223	239 241	MAY 234 234	237 238
1 2 3		FEBRUAR 	 	250 257 259	MARCH 241 249 255	245 253 257	226 224 222	221 222 221	223 223 222	239 241 242	MAY 234 234 233	237 238 238
1 2		FEBRUAR	 	250 257	MARCH 241 249	245 253	226 224	APRIL 221 222	223 223	239 241	MAY 234 234	237 238
1 2 3 4		FEBRUAR	 	250 257 259 262	MARCH 241 249 255 258	245 253 257 260	226 224 222 223	221 222 221 208	223 223 222 217	239 241 242 247	MAY 234 234 233 237	237 238 238 243
1 2 3 4 5		FEBRUAR	Y	250 257 259 262 266 268 268	MARCH 241 249 255 258 259 261 258	245 253 257 260 263 265 263	226 224 222 223 221 226 228	221 222 221 208 208 221 221 224	223 223 222 217 215 224 226	239 241 242 247 249 248 248	MAY 234 234 233 237 245 244 244	237 238 238 243 246 246
1 2 3 4 5	 	FEBRUAR	.y	250 257 259 262 266 268 268 262	MARCH 241 249 255 258 259 261 258 259	245 253 257 260 263 265 263 260	226 224 222 223 221 226 228 230	221 222 221 208 208 208 221 224 225	223 223 222 217 215 224 226 228	239 241 242 247 249 248 248 249	MAY 234 234 233 237 245 244 244 245	237 238 238 243 246 246 246 247
1 2 3 4 5		FEBRUAR	Y	250 257 259 262 266 268 268	MARCH 241 249 255 258 259 261 258	245 253 257 260 263 265 263	226 224 222 223 221 226 228	221 222 221 208 208 221 221 224	223 223 222 217 215 224 226	239 241 242 247 249 248 248	MAY 234 234 233 237 245 244 244	237 238 238 243 246 246
1 2 3 4 5 6 7 8 9		FEBRUAR	 	250 257 259 262 266 268 268 262 262	MARCH 241 249 255 258 259 261 258 259 258	245 253 257 260 263 265 263 260 261	226 224 222 223 221 226 228 230 229	221 222 221 208 208 208 221 224 225 206	223 223 222 217 215 224 226 228 218	239 241 242 247 249 248 248 249 253	234 234 233 237 245 244 244 245 246	237 238 238 243 246 246 246 247 250
1 2 3 4 5 6 7 8 9		FEBRUAR	 	250 257 259 262 266 268 268 262 262	241 249 255 258 259 261 258 259 258 259	245 253 257 260 263 265 263 260 261 260	226 224 222 223 221 226 228 230 229 214	221 222 221 208 208 221 224 225 206 205	223 223 222 217 215 224 226 228 218 210	239 241 242 247 249 248 248 249 253 254	MAY 234 234 233 237 245 244 244 245 246 246	237 238 238 243 246 246 246 247 250 251
1 2 3 4 5 6 7 8 9 10		FEBRUAR	 	250 257 259 262 266 268 268 262 262 262 262 264 265 244	241 249 255 258 259 261 258 259 258 257 258 257	245 253 257 260 263 265 263 260 261 260 261 250 241	226 224 222 223 221 226 228 230 229 214 227 229 228	221 222 221 208 208 208 221 224 225 206 205	223 223 222 217 215 224 226 228 218 210 222 227 225	239 241 242 247 249 248 248 249 253 254 253 240 249	MAY 234 234 237 245 244 244 245 246 217 222 229	237 238 238 243 246 246 247 250 251 230 234 245
1 2 3 4 5 6 7 8 9 10		FEBRUAR	Y	250 257 259 262 266 268 268 262 262 262 262	241 249 255 258 259 261 258 259 258 259 258 257	245 253 257 260 263 265 263 260 261 260	226 224 222 223 221 226 228 230 229 214	221 222 221 208 208 208 221 224 225 206 205	223 223 222 217 215 224 226 228 218 210	239 241 242 247 249 248 248 249 253 254	MAY 234 234 237 245 244 244 246 246 247 222	237 238 238 243 246 246 247 250 251
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUAR	Y	250 257 259 262 266 268 268 262 262 262 262 264 265 244 247 246	241 249 255 258 259 261 258 259 258 257 258 257 258 242 239 243 242	245 253 257 260 263 265 263 260 261 260 261 250 241 245 244	226 224 222 223 221 226 228 230 229 214 227 229 228 227	221 222 221 208 208 208 221 224 225 206 205 214 224 220 224 220 224 221	223 223 222 217 215 224 226 228 218 210 222 227 225 225 225	239 241 242 247 249 248 248 249 253 254 253 240 249 248 249	MAY 234 234 237 245 244 244 245 246 217 222 229 215 221	237 238 238 243 246 246 247 250 251 230 234 245 234 233
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUAR		250 257 259 262 266 268 268 262 262 262 262 264 265 244 247 246	241 249 255 258 259 261 258 259 258 257 258 242 239 242 243 242 244 217	245 253 257 260 263 265 263 260 261 260 261 250 241 245 244	226 224 222 223 221 226 228 230 229 214 227 229 228 227 227	221 222 221 208 208 208 221 224 225 206 205 214 224 220 224 221 221 229	223 223 222 217 215 224 226 228 218 210 222 227 225 225 225 225	239 241 242 247 249 248 248 249 253 254 253 240 249 248 242	234 234 233 237 245 244 244 245 246 246 217 222 229 215 221	237 238 238 243 246 246 246 247 250 251 230 234 245 233 238 237
1 2 3 4 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18		FEBRUAR	 	250 257 259 262 266 268 268 262 262 262 262 264 265 244 247 246 249 244 239	241 249 255 258 259 261 258 259 258 257 258 242 239 243 242 239 243 242	245 253 257 260 263 265 263 260 261 260 241 245 244 248 248 224 230	226 224 222 223 221 226 228 230 229 214 227 229 228 227 227	221 222 221 208 208 208 221 224 225 206 205 214 224 220 224 221 213 209 204	223 223 222 217 215 224 226 228 218 210 222 227 225 225 225 225 225 222	239 241 242 247 249 248 248 249 253 254 253 240 249 248 242 244 242	234 234 233 237 245 244 244 245 246 246 222 229 215 221 233 234 235	237 238 238 243 246 246 247 250 251 230 234 245 234 233 238 237 238
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		FEBRUAR	Y	250 257 259 262 266 268 268 262 262 262 262 244 247 246 249 244 239 251	241 249 255 258 259 261 258 259 258 257 258 242 243 242 243 242 244 217 219 238	245 253 257 260 263 265 263 260 261 260 261 250 241 245 244 248 224 230 247	226 224 222 223 221 226 228 230 229 214 227 229 228 227 227 227	221 222 221 208 208 208 221 224 225 206 205 214 224 220 224 221 220 224 220 224 221	223 223 222 217 215 224 226 228 218 210 222 227 225 225 225 225 225 225 227 213 207 216	239 241 242 247 249 248 248 249 253 254 253 240 249 248 242 244 239 242 245	234 234 233 237 245 244 244 246 246 246 217 222 229 215 221 233 234 233 234 235	237 238 238 243 246 246 247 250 251 230 234 245 234 233 238 237 238 238
1 2 3 4 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20		FEBRUAR	Y	250 257 259 262 266 268 268 262 262 262 262 264 244 247 246 249 244 239 251 257	241 249 255 258 259 261 258 259 258 257 258 242 239 243 242 239 243 247	245 253 257 260 263 265 263 260 261 260 241 245 245 244 248 224 230 247 254	226 224 222 223 221 226 228 230 229 214 227 229 228 227 227 227 227 227 227	221 222 221 208 208 208 221 224 225 206 205 214 224 220 224 220 224 220 224 221	223 223 222 217 215 224 226 228 218 210 222 227 225 225 225 225 225 225 225	239 241 242 247 249 248 248 249 253 254 253 240 249 248 242 244 239 242 245 225	234 234 233 237 245 244 244 245 246 246 217 222 229 215 221 233 234 235 212	237 238 243 246 246 246 247 250 251 230 234 245 234 233 238 237 238 238 209
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		FEBRUAR	Y	250 257 259 262 266 268 268 262 262 262 262 244 247 246 249 244 239 251 257	241 249 255 258 259 261 258 259 258 257 258 242 243 242 243 242 244 217 219 238 247	245 253 257 260 263 265 263 260 261 250 241 245 244 248 224 230 247 254	226 224 222 223 221 226 228 230 229 214 227 229 228 227 227 227 226 215 213 223 228 232	221 222 221 208 208 208 221 224 225 206 205 214 224 220 224 221 213 209 204 227 222	223 223 222 217 215 224 226 228 218 210 222 227 225 225 225 225 225 225 225 225	239 241 242 247 249 248 248 249 253 254 253 240 249 248 242 245 245 225	234 234 233 237 245 244 244 245 246 246 217 222 229 215 221 233 234 235 212 202	237 238 238 243 246 246 247 250 251 230 234 245 234 233 238 237 238 238 209
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		FEBRUAR	Y	250 257 259 262 266 268 268 262 262 262 262 262 244 247 246 249 244 239 251 257	241 249 255 258 259 261 258 259 258 257 258 242 243 242 243 242 244 217 219 238 247	245 253 257 260 263 265 261 260 261 250 241 245 244 230 247 254 236 114	226 224 222 223 221 226 228 230 229 214 227 229 228 227 227 227 226 215 213 228 223 228	221 222 221 208 208 208 221 224 225 206 205 214 224 220 224 221 213 209 204 207 222 221	223 223 222 217 215 224 226 228 218 210 222 227 225 225 225 225 225 225 225 225	239 241 242 247 249 248 248 249 253 254 253 240 249 248 242 242 244 239 242 245 225	234 234 2337 245 244 244 245 246 246 246 222 229 215 221 233 234 235 212 202	237 238 238 243 246 246 246 247 250 251 230 234 245 233 238 237 238 238 209
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		FEBRUAR	Y	250 257 259 262 266 268 268 262 262 262 262 244 247 246 249 244 239 251 257	241 249 255 258 259 261 258 259 258 257 258 242 243 242 243 242 244 217 219 238 247	245 253 257 260 263 265 263 260 261 250 241 245 244 248 224 230 247 254	226 224 222 223 221 226 228 230 229 214 227 229 228 227 227 227 226 215 213 223 228 232	221 222 221 208 208 208 221 224 225 206 205 214 224 220 224 221 213 209 204 227 222	223 223 222 217 215 224 226 228 218 210 222 227 225 225 225 225 225 225 225 225	239 241 242 247 249 248 248 249 253 254 253 240 249 248 242 245 245 225	234 234 233 237 245 244 244 245 246 246 217 222 229 215 221 233 234 235 212 202	237 238 238 243 246 246 247 250 251 230 234 245 234 233 238 237 238 238 209 205 219 206 210
1 2 3 4 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		FEBRUAR		250 257 259 262 266 268 268 262 262 262 262 244 247 246 249 257 255 186 182	241 249 255 258 259 261 258 259 258 257 258 242 239 242 243 242 217 219 238 247	245 253 257 260 263 265 263 261 260 261 250 241 250 241 245 244 230 247 254 236 247 254	226 224 222 223 221 226 228 230 229 214 227 229 228 227 227 227 227 227 227 228 232 232 232 232 231 231 231 231 231 231	221 222 221 208 208 208 221 224 225 206 205 214 224 220 224 221 213 209 204 207 222 213 168 193	223 223 222 217 215 224 226 228 218 210 222 227 225 225 225 225 225 225 225 225	239 241 242 247 249 248 248 249 253 254 253 240 249 248 242 245 225 225 225	234 234 2337 245 244 244 245 246 246 217 222 229 215 221 233 234 235 212 202	237 238 243 246 246 247 250 251 230 234 245 233 238 237 238 238 209 205 219 206
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26		FEBRUAR	Y	250 257 259 262 266 268 268 262 262 262 262 244 247 246 249 244 235 257 255 186 182 207 214	241 249 255 258 259 261 258 259 258 257 258 242 243 242 243 242 244 217 219 238 247 156 95 119 182 207	245 253 257 260 263 265 263 260 261 250 241 245 244 248 224 236 247 254 247 254 211	226 224 222 223 221 226 228 230 229 214 227 229 214 227 227 228 227 227 228 2215 213 223 228 232 215 220 227	221 222 221 208 208 208 221 224 225 206 205 214 224 220 224 221 213 209 204 207 222 213 168 193 214 220	223 223 222 217 215 224 226 228 218 210 222 227 225 225 225 225 225 225 225 225	239 241 242 247 249 248 248 249 253 254 253 240 249 248 242 244 239 245 225 225 225 224 224 222 232	234 234 233 237 245 244 244 246 246 246 217 222 229 215 221 233 234 235 212 202	237 238 238 243 246 246 247 250 251 230 234 245 234 245 237 238 238 237 238 238 209 205 219 206 210 222
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27		FEBRUAR	Y	250 257 259 262 266 268 268 262 262 262 262 262 244 247 246 249 244 239 251 257 255 186 182 207 214	241 249 255 258 259 261 258 259 258 257 258 242 244 217 219 238 247 156 95 119 182 207	245 253 257 260 263 265 263 261 260 261 250 241 245 244 230 247 254 236 114 158 196 211	226 224 222 223 221 226 228 230 229 214 227 229 228 227 227 227 226 215 213 228 223 223 228 223 223 223 223 223 22	221 222 221 208 208 208 221 224 225 206 205 214 224 220 224 221 213 209 204 227	223 223 222 217 215 224 226 228 218 210 222 227 225 225 225 225 225 225 225 225	239 241 242 247 249 248 248 249 253 254 253 240 249 248 242 245 225 225 224 224 222 223 239 241	234 234 2337 245 244 244 245 246 246 246 222 229 215 221 233 234 235 212 202	237 238 238 243 246 246 246 247 250 251 230 234 245 234 233 238 237 238 209 205 219 206 210 222
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28		FEBRUAR	Y	250 257 259 262 266 268 268 262 262 262 262 264 265 244 247 246 249 251 257 255 186 182 207 214	241 249 255 258 259 261 258 259 258 257 258 242 239 242 242 239 242 247 217 219 238 247 156 95 119 182 207	245 253 257 260 263 265 263 260 261 260 261 250 241 245 244 230 247 254 236 114 158 196 211	226 224 222 223 221 226 228 230 229 214 227 229 228 227 227 227 228 232 232 232 235 235 236	221 222 221 208 208 208 224 224 225 206 205 214 224 220 224 221 213 209 204 207 222 213 168 193 214 220 222	223 223 222 217 215 224 226 228 218 210 222 227 225 225 225 225 225 225 225 225	239 241 242 247 249 248 248 249 253 254 263 240 249 248 242 245 225 225 225 225 225 225 225 225	234 234 233 237 245 244 244 245 246 246 217 222 229 215 221 233 234 235 211 202 190 201 201 201 201 201 201 201 201 201 20	237 238 243 246 246 246 247 250 251 230 234 245 233 238 237 238 209 205 219 206 210 222 235 238 242
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27		FEBRUAR	Y	250 257 259 262 266 268 268 262 262 262 262 262 244 247 246 249 244 239 251 257 255 186 182 207 214	241 249 255 258 259 261 258 259 258 257 258 242 244 217 219 238 247 156 95 119 182 207	245 253 257 260 263 265 263 261 260 261 250 241 245 244 230 247 254 236 114 158 196 211	226 224 222 223 221 226 228 230 229 214 227 229 228 227 227 227 226 215 213 228 223 223 228 223 223 223 223 223 22	221 222 221 208 208 208 221 224 225 206 205 214 224 220 224 221 213 209 204 227	223 223 222 217 215 224 226 228 218 210 222 227 225 225 225 225 225 225 225 225	239 241 242 247 249 248 248 249 253 254 253 240 249 248 242 245 225 225 224 224 222 223 239 241	234 234 2337 245 244 244 245 246 246 246 222 229 215 221 233 234 235 212 202	237 238 238 243 246 246 246 247 250 251 230 234 245 234 233 238 237 238 209 205 219 206 210 222
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29		FEBRUAR	Y	250 257 259 262 266 268 268 262 262 262 262 264 244 247 246 249 244 239 251 257 255 186 182 207 214	241 249 255 258 259 261 258 259 258 257 258 242 239 243 242 244 217 219 238 247 156 95 119 182 207	245 253 257 260 263 265 261 260 261 250 241 245 244 248 224 230 247 254 211 258 211 215 214 188 207	226 224 222 223 221 226 228 230 229 214 227 229 228 227 227 227 228 227 227 228 227 227	221 222 221 208 208 208 221 224 225 206 205 214 224 220 224 221 213 209 204 207 222 213 168 193 214 220 224 221	223 223 222 217 215 224 226 228 218 210 222 227 225 225 225 225 225 225 225 225	239 241 242 247 249 248 248 249 253 254 253 240 249 248 242 245 225 225 225 224 224 224 224 224	234 234 233 237 245 244 244 246 246 246 217 222 229 215 221 233 234 235 212 202 199 210 190 201 201 201 201 201 201 201 201 201 20	237 238 238 243 246 246 247 250 251 230 234 245 234 245 237 238 238 209 205 219 206 210 222 235 238 242 242

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST		S	EPTEMBE	R
1 2 3 4 5	260 254 256 257 243	247 232 235 232 220	255 249 253 248 232	246 260 263 270 258	234 246 256 247 237	242 255 260 257 248	290 294 300 302 262	276 275 291 154 215	285 284 295 223 240	323 317 315 319 306	307 301 305 293 289	315 309 309 303 298
6 7 8 9 10	224 209 214 248 251	209 194 203 203 248	220 200 209 220 249	284 290 294	 277 280 284	 281 284 288	288 297 303 306 306	262 286 296 302 301	280 291 300 304 303	317 328 357 335 350	302 317 326 329 329	307 324 330 333 332
11 12 13 14 15	254 258 252 240 243	251 249 217 215 236	253 256 244 228 239	287 282 289 291 264	276 278 279 248 231	281 280 285 284 252	311 311 308 303 299	302 307 209 256 268	305 309 244 282 282	341 348 352 278 265	332 327 265 257 178	338 334 320 265 216
16 17 18 19 20	251 254 224	243 250 145	247 252 186	272 272 276 282 284	254 258 268 274 274	267 266 271 278 279	296 306 308 309 311	279 296 304 302 305	287 302 306 306 308	254 280 301 313 283	209 254 280 283 217	233 266 291 304 235
21 22 23 24 25	242 242 233 248 258	224 192 201 233 248	233 215 218 240 253	279 287 293 293 301	274 278 286 289 292	277 283 288 291 296	313 318 331 327 330	305 308 315 321 322	309 312 319 324 325	278 307 319 335 334	234 278 307 319 303	256 293 313 322 328
26 27 28 29 30 31	263 266 265 253 251	258 260 210 209 221	261 264 255 224 231	300 242 267 285 292 294	242 216 237 267 285 283	280 227 250 279 288 290	337 337 331 329 315 324	321 322 318 311 306 308	325 327 328 318 310 314	308 246 280 287 291	170 188 246 279 279	205 214 261 282 285
MONTH	266	145	237	301	216	273	337	154	298	357	170	291

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN I	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
2111		OCTOBER			OVEMBER			DECEMBE			JANUAR'	
		OCIOBER		N	OVEMBER	•	_	JECEMBE	.K		UANUAR	1
1	7.6	7.5	7.5	7.0	6.9	7.0	7.4	7.2	7.3			
2	7.6 7.6	7.5 7.5	7.6 7.6									
4	7.5	7.5	7.5	7.1	7.0	7.1						
5	7.5	7.4	7.5	7.3	7.1	7.2						
6	7.6	7.5	7.5	7.3	7.2	7.2						
7	7.7	7.6	7.6	7.3	7.2	7.2						
8	7.7	7.6	7.7	7.4	7.2	7.3						
9 10	7.7 7.6	7.6 7.4	7.6 7.5	7.4 7.4	7.3	7.3 7.3						
10	7.0	/.4	7.5	7.4	1.2	7.3						
11	7.4	7.1	7.2	7.3	7.1	7.2						
12	7.3	7.2	7.2	7.4	7.2	7.3						
13	7.4	7.3	7.3	7.4	7.3	7.4						
14 15	7.4 7.4	7.3 7.3	7.3 7.3	7.5 7.5	7.3	7.4 7.4						
13	7.4	7.3	7.3	7.3	7.3	7.4						
16	7.4	7.3	7.3	7.6	7.4	7.5						
17	7.3	7.2	7.3	7.7	7.4	7.6						
18 19	7.3 7.3	7.2 7.2	7.2	7.7 7.7	7.5 7.4	7.6 7.6						
20	7.3	7.2	7.3 7.3	7.7	7.4	7.6 7.6						
20	,.5	7.3	,.5	7.0	7.5	7.0						
21	7.3	7.2	7.3	7.6	7.4	7.4						
22	7.4	7.3	7.3	7.4	7.3	7.3						
23	7.4 7.4	7.2	7.3 7.3	7.4 7.3	7.2 7.2	7.3 7.2						
24 25	7.4	7.3 7.3	7.3	7.3	7.2	7.2						
23	,	7.3	, . 1	,.2	,	7.2						
26	7.4	7.3	7.4	7.3	7.2	7.2						
27	7.4	7.3	7.4	7.2	6.9	7.0						
28	7.4 7.4	7.3 7.3	7.3 7.3	7.1 7.2	7.0 7.1	7.1 7.1						
29 30	7.4	7.3	7.3	7.2	7.1	7.1 7.2						
31	7.4	7.0	7.3									
MAX	7.7	7.6	7.7	7.8	7.5	7.6	7.4	7.2	7.3			
MIN	7.3	7.0	7.2	7.0	6.9	7.0	7.4	7.2	7.3			

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		FEBRUA	RY		MARCH			APRIL			MAY	
1 2 3 4 5		 	 	7.8 7.9 7.9 8.0 8.0	7.5 7.5 7.6 7.6 7.6	7.6 7.7 7.7 7.8 7.8	7.8 7.8 7.8 7.6 8.0	7.4 7.4 7.4 7.4 7.4	7.5 7.5 7.6 7.4 7.5	7.8 7.8 7.9 8.2 8.4	7.5 7.5 7.5 7.5 7.5	7.6 7.6 7.7 7.7 7.8
6 7 8 9 10	 		 	8.1 8.2 8.5 8.5 8.7	7.6 7.6 7.6 7.6 7.6	7.8 7.9 8.0 8.1 8.1	8.1 8.3 8.3 7.9 8.1	7.5 7.5 7.5 7.5 7.5	7.7 7.8 7.8 7.7	8.4 8.4 8.3 8.1 7.9	7.5 7.4 7.4 7.4 7.4	7.8 7.8 7.8 7.7 7.6
11 12 13 14 15	 		 	8.5 7.8 8.4 8.5 8.6	7.6 7.5 7.6 7.6 7.6	7.7 7.6 7.8 8.0 8.0	8.0 8.3 8.3 8.4	7.5 7.5 7.6 7.6 7.6	7.8 7.8 7.9 7.9	7.5 7.6 7.6 7.4 7.5	7.4 7.3 7.4 7.4 7.4	7.4 7.5 7.5 7.4 7.5
16 17 18 19 20	 		 	8.6 8.1 7.9 8.2 8.2	7.6 7.4 7.4 7.4 7.4	8.0 7.5 7.6 7.7 7.8	8.1 7.8 7.6 7.8 7.9	7.4 7.4 7.5 7.5 7.5	7.7 7.5 7.5 7.6 7.7	7.6 7.6 7.6 7.5 7.6	7.4 7.5 7.5 7.4 7.4	7.5 7.6 7.5 7.5 7.5
21 22 23 24 25			 	7.9 7.2 7.3 7.4 7.5	7.0 7.0 7.1 7.3 7.4	7.5 7.1 7.2 7.4 7.4	7.7 7.5 7.6 7.6 7.6	7.5 7.4 7.5 7.5 7.5	7.5 7.5 7.5 7.6 7.5	7.6 7.6 7.6 7.6 7.6	7.5 7.5 7.4 7.5 7.5	7.5 7.5 7.6 7.5 7.5
26 27 28 29 30 31	7.7 7.7 7.6 7.6	7.5 7.5 7.5 7.5	7.6 7.6 7.5 	7.6 7.6 7.5 7.5 7.6 7.7	7.4 7.4 7.3 7.4 7.4	7.5 7.5 7.4 7.5 7.5	7.7 7.6 7.7 7.7 7.8	7.5 7.5 7.6 7.5 7.5	7.6 7.6 7.6 7.6	7.7 7.6 7.7 7.8 7.8 7.9	7.5 7.5 7.6 7.6 7.6	7.6 7.6 7.6 7.6 7.7
MAX MIN	7.7 7.6	7.5 7.5	7.6 7.5	8.7 7.2	7.6 7.0	8.1 7.1	8.4 7.5	7.6 7.4	7.9 7.4	8.4 7.4	7.6 7.3	7.8 7.4
DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
DAY	MAX	MIN JUNE	MEDIAN	MAX	MIN JULY	MEDIAN	MAX	MIN AUGUST		MAX	MIN SEPTEMB	
DAY 1 2 3 4 5	MAX 8.1 8.4 8.6 8.7 8.7		7.8 7.9 8.1 8.1 8.2	7.7 7.8 7.8 7.7 7.8		7.6 7.6 7.6 7.6 7.6 7.6	7.7 8.0 7.8 7.7 7.7			7.9 7.6 7.6 7.5 7.7		
1 2 3 4	8.1 8.4 8.6 8.7	7.6 7.6 7.6 7.6 7.6	7.8 7.9 8.1 8.1	7.7 7.8 7.8 7.7	7.5 7.6 7.5 7.5	7.6 7.6 7.6 7.6	7.7 8.0 7.8 7.7	7.5 7.4 7.6 7.3	7.6 7.7 7.7 7.5	7.9 7.6 7.6 7.5	7.4 7.4 7.3 7.3	7.5 7.5 7.4 7.4
1 2 3 4 5 6 7 8 9	8.1 8.4 8.6 8.7 8.7 8.3 8.0 8.1 8.1	7.6 7.6 7.6 7.6 7.6 7.6 7.5 7.5	7.8 7.9 8.1 8.1 8.2 7.7 7.7 7.8 7.8	7.7 7.8 7.8 7.7 7.8 8.1 8.1	7.5 7.6 7.5 7.5 7.4	7.6 7.6 7.6 7.6 7.6 7.8	7.7 8.0 7.8 7.7 7.7 7.7 7.8 7.8 7.9	7.5 7.4 7.6 7.3 7.5 7.6 7.6 7.6 7.6	7.6 7.7 7.5 7.6 7.7 7.7	7.9 7.6 7.6 7.5 7.7 7.9 8.1 8.1 8.2	7.4 7.4 7.3 7.3 7.3 7.5 7.6 7.6	7.5 7.5 7.4 7.5 7.6 7.7 7.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.1 8.4 8.6 8.7 8.7 8.3 8.0 8.1 7.9 7.8 7.5	7.6 7.6 7.6 7.6 7.6 7.6 7.5 7.5 7.5 7.5 7.4 7.4	7.8 7.9 8.1 8.2 7.7 7.7 7.8 7.7 7.6 7.5 7.5	7.7 7.8 7.8 7.7 7.8 8.1 8.1 8.1 8.1 8.1	7.5 7.6 7.5 7.5 7.4 7.7 7.7 7.6 7.6 7.6 7.5	7.6 7.6 7.6 7.6 7.6 7.8 7.8 7.8 7.7	7.7 8.0 7.8 7.7 7.7 7.7 7.8 7.8 7.9 8.1 8.1 8.2 7.9	7.5 7.4 7.6 7.3 7.5 7.6 7.6 7.5 7.6 7.7 7.7	7.6 7.7 7.5 7.6 7.7 7.7 7.8 7.8 7.8 7.9	7.9 7.6 7.5 7.7 7.9 8.1 8.1 8.2 8.2 8.2	7.4 7.4 7.3 7.3 7.3 7.5 7.6 7.6 7.6 7.6 7.6	7.5 7.5 7.4 7.4 7.5 7.6 7.7 7.7 7.7 7.7 7.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	8.1 8.4 8.6 8.7 8.7 8.3 8.0 8.1 7.9 7.6 7.5 7.5 7.5 7.6	7.6 7.6 7.6 7.6 7.6 7.5 7.5 7.5 7.5 7.4 7.4 7.4 7.5	7.8 7.9 8.1 8.1 8.2 7.7 7.7 7.8 7.8 7.7 7.6 7.5 7.5 7.5 7.5	7.7 7.8 7.8 7.7 7.8 8.1 8.1 8.1 8.1 8.1 7.8 7.7	7.5 7.6 7.5 7.5 7.4 7.7 7.7 7.6 7.6 7.6 7.5 7.4 7.5 7.5	7.6 7.6 7.6 7.6 7.6 7.6 7.8 7.8 7.7 7.7 7.6	7.7 8.0 7.8 7.7 7.7 7.7 7.8 7.9 8.1 8.1 8.2 7.9 7.7 7.8 7.9	7.5 7.4 7.6 7.3 7.5 7.6 7.6 7.6 7.7 7.7 7.4 7.5 7.6	7.6 7.7 7.5 7.6 7.7 7.7 7.8 7.8 7.9 7.6 7.7 7.8	7.9 7.6 7.5 7.7 7.9 8.1 8.2 8.2 8.2 8.3 7.6 7.5	7.4 7.4 7.3 7.3 7.3 7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	7.5 7.5 7.4 7.4 7.5 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	8.1 8.4 8.6 8.7 8.7 8.3 8.0 8.1 7.9 7.8 7.65 7.5 7.5 7.5 7.5 7.5 7.5	7.6 7.6 7.6 7.6 7.6 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.8 7.9 8.1 8.1 8.2 7.7 7.7 7.8 7.7 7.6 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.7 7.8 7.7 7.8 7.7 7.8 8.1 8.1 8.1 8.1 8.1 8.1 7.8 7.7 7.8 7.8 7.9 7.9 7.9 7.9	7.5 7.6 7.5 7.5 7.4 7.7 7.7 7.6 7.6 7.6 7.5 7.4 7.5 7.6 7.6 7.6 7.6	7.6 7.6 7.6 7.6 7.6 7.6 7.8 7.8 7.7 7.7 7.6 7.6 7.6 7.6 7.7	7.7 8.0 7.8 7.7 7.7 7.7 7.8 7.9 8.1 8.1 8.2 7.9 7.7 7.8 7.9 8.0 8.1 8.2 8.4 8.4	7.5 7.4 7.6 7.3 7.5 7.6 7.6 7.6 7.7 7.7 7.4 7.5 7.6 7.6 7.7 7.7 7.4 7.5 7.6 7.7	7.6 7.7 7.5 7.6 7.7 7.8 7.8 7.9 7.6 7.7 7.8 7.9 7.9	7.9 7.6 7.5 7.7 7.9 8.1 8.2 8.2 8.2 8.3 7.6 7.5 7.6 7.7 7.8 7.7 7.8 7.7	7.4 7.4 7.3 7.3 7.3 7.5 7.6 7.6 7.6 7.6 7.6 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.4 7.4 7.5 7.6 7.7 7.7 7.7 7.7 7.7 7.6 7.5 7.6 7.6 7.6 7.6 7.6 7.6

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER	1		JANUARY	
1 2	17.5 17.0	16.0 15.5	16.5 16.0	14.0	13.0	13.5	6.0	4.0	4.5			
3 4	17.5 17.5	16.0	17.0									
5	17.0	17.0 14.5	17.0 15.5	11.5 9.5	9.5 8.5	10.5 9.0						
6	14.5	13.0	14.0	11.0	9.0	10.0						
7 8	14.0 13.0	12.5 11.5	13.5 12.5	10.5 9.5	9.5 8.5	10.0 9.0						
9 10	14.5 16.0	12.5 14.5	13.5 15.0	9.0 11.5	8.0 9.0	8.5 10.0						
11	17.5	16.0	16.5	12.0	10.5	11.5						
12 13	16.5 15.0	15.0 13.5	15.5 14.5	10.5 10.5	9.5 9.5	9.5 10.0						
14	15.0	14.0	14.5	10.5	9.5	10.0						
15	14.0	12.5	13.0	10.0	9.0	9.5						
16 17	13.5 15.0	11.5 13.5	12.5 14.0	9.0 6.5	6.5 5.5	8.0 6.0						
18 19	15.5 14.5	14.5 13.0	15.0 13.0	6.0 6.5	5.0 5.0	5.5 6.0						
20	13.0	12.5	12.5	8.5	6.0	7.5						
21 22	13.0 12.5	12.0 11.0	12.5 12.0	11.0 11.5	8.5 10.5	10.0 11.0						
23	12.5	11.5	12.0	13.0	11.5	12.5						
24 25	11.5 11.0	10.5 10.0	11.0 10.5	14.0 14.0	13.0 13.5	14.0						
26	11.5	10.0	10.5	14.0	13.0	13.5						
27 28	11.5 11.5	10.5 10.5	11.0 11.0	14.0 12.0	12.0 9.5	13.5 10.5						
29 30	11.0 12.0	10.0 10.5	10.5 11.0	9.5 8.0	8.0 6.0	8.5 7.0						
31	13.0	11.5	12.5									
MONTH	17.5	10.0	13.4	14.0	5.0	9.9	6.0	4.0	4.5			
DΔV	MAX	MTN	MEAN	MΔΥ	MTN	MEDN	мдх	MTN	MEAN	MΔΥ	MTN	MEAN
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		MIN FEBRUARY			MARCH			APRIL			MAY	
1 2		FEBRUARY		7.5 7.5	MARCH 6.0 6.5	6.5 7.0	11.5 12.0	APRIL 9.0 10.5	10.5 11.0	15.0 16.0	MAY 12.5 14.0	14.0 15.0
1 2 3 4		FEBRUARY	 	7.5 7.5 7.5 7.5	MARCH 6.0 6.5 6.0 5.5	6.5 7.0 6.5 6.5	11.5 12.0 13.5 14.0	9.0 10.5 12.0 13.0	10.5 11.0 12.5 13.5	15.0 16.0 16.5 17.5	MAY 12.5 14.0 13.5 14.5	14.0 15.0 15.0 16.0
1 2 3 4 5		FEBRUARY		7.5 7.5 7.5 7.5 8.5	MARCH 6.0 6.5 6.0 5.5 6.0	6.5 7.0 6.5 6.5 7.5	11.5 12.0 13.5	9.0 10.5 12.0 13.0 10.5	10.5 11.0 12.5	15.0 16.0 16.5 17.5 19.5	MAY 12.5 14.0 13.5	14.0 15.0 15.0 16.0 18.0
1 2 3 4		FEBRUARY	 	7.5 7.5 7.5 7.5	MARCH 6.0 6.5 6.0 5.5	6.5 7.0 6.5 6.5	11.5 12.0 13.5 14.0	9.0 10.5 12.0 13.0	10.5 11.0 12.5 13.5	15.0 16.0 16.5 17.5	MAY 12.5 14.0 13.5 14.5	14.0 15.0 15.0 16.0
1 2 3 4 5		FEBRUARY		7.5 7.5 7.5 7.5 8.5 8.5 9.0	MARCH 6.0 6.5 6.0 5.5 6.0 7.0 7.0 8.5	6.5 7.0 6.5 6.5 7.5 8.0 8.0	11.5 12.0 13.5 14.0 13.0 12.0 13.0	9.0 10.5 12.0 13.0 10.5 9.0 11.0 12.0	10.5 11.0 12.5 13.5 11.0 10.5 12.0 13.5	15.0 16.0 16.5 17.5 19.5 21.0 22.0 22.5	MAY 12.5 14.0 13.5 14.5 16.5 18.0 19.5 20.0	14.0 15.0 15.0 16.0 18.0
1 2 3 4 5		FEBRUARY		7.5 7.5 7.5 7.5 8.5 8.5	MARCH 6.0 6.5 6.0 5.5 6.0 7.0	6.5 7.0 6.5 6.5 7.5	11.5 12.0 13.5 14.0 13.0	9.0 10.5 12.0 13.0 10.5	10.5 11.0 12.5 13.5 11.0	15.0 16.0 16.5 17.5 19.5	MAY 12.5 14.0 13.5 14.5 16.5	14.0 15.0 15.0 16.0 18.0
1 2 3 4 5 6 7 8 9 10		FEBRUARY		7.5 7.5 7.5 7.5 8.5 9.0 11.5 12.5 13.0	MARCH 6.0 6.5 6.0 5.5 6.0 7.0 7.0 8.5 10.5 11.5	6.5 7.0 6.5 6.5 7.5 8.0 8.0 10.0 11.5 12.0	11.5 12.0 13.5 14.0 13.0 12.0 13.0 15.0 14.5 11.5	9.0 10.5 12.0 13.0 10.5 9.0 11.0 12.0 10.0 9.0	10.5 11.0 12.5 13.5 11.0 10.5 12.0 13.5 11.5 10.0	15.0 16.0 16.5 17.5 19.5 21.0 22.0 22.5 23.0 23.0	MAY 12.5 14.0 13.5 14.5 16.5 18.0 19.5 20.0 21.0 20.5	14.0 15.0 15.0 16.0 18.0 19.5 21.0 21.5 22.0 21.5
1 2 3 4 5 6 7 8 9		FEBRUARY		7.5 7.5 7.5 7.5 8.5 8.5 9.0 11.5 12.5 13.0	6.0 6.5 6.0 5.5 6.0 7.0 7.0 8.5 10.5	6.5 7.0 6.5 6.5 7.5 8.0 8.0 10.0 11.5 12.0	11.5 12.0 13.5 14.0 13.0 12.0 13.0 15.0 14.5 11.5	9.0 10.5 12.0 13.0 10.5 9.0 11.0 12.0 10.0 9.0	10.5 11.0 12.5 13.5 11.0 10.5 12.0 13.5 11.5 10.0	15.0 16.0 16.5 17.5 19.5 21.0 22.0 22.5 23.0 20.5 20.5 21.5	MAY 12.5 14.0 13.5 14.5 16.5 18.0 19.5 20.0 21.0 20.5	14.0 15.0 15.0 16.0 18.0 21.5 22.0 21.5 22.0 21.5
1 2 3 4 5 6 7 8 9 10		FEBRUARY		7.5 7.5 7.5 7.5 8.5 8.5 9.0 11.5 12.5 13.0	MARCH 6.0 6.5 6.0 5.5 6.0 7.0 7.0 8.5 10.5 11.5	6.5 7.0 6.5 6.5 7.5 8.0 8.0 10.0 11.5 12.0	11.5 12.0 13.5 14.0 13.0 12.0 13.0 15.0 14.5 11.5	9.0 10.5 12.0 10.5 9.0 11.0 12.0 10.0 9.0	10.5 11.0 12.5 13.5 11.0 10.5 12.0 13.5 11.5 10.0	15.0 16.0 16.5 17.5 19.5 21.0 22.0 22.5 23.0 23.0 20.5	MAY 12.5 14.0 13.5 14.5 16.5 18.0 19.5 20.0 21.0 20.5	14.0 15.0 16.0 18.0 19.5 21.0 21.5 22.0 21.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14		FEBRUARY		7.5 7.5 7.5 7.5 8.5 9.0 11.5 12.5 13.0	MARCH 6.0 6.5 6.0 5.5 6.0 7.0 7.0 8.5 10.5 11.5 10.0 7.5 6.5 7.0 7.5	6.5 7.0 6.5 6.5 7.5 8.0 8.0 10.0 11.5 12.0 11.0 9.0 7.5 8.5 9.0	11.5 12.0 13.5 14.0 13.0 12.0 13.0 15.0 14.5 11.5	9.0 10.5 12.0 10.5 9.0 11.0 12.0 10.0 9.0 10.0 9.0	10.5 11.0 12.5 13.5 11.0 10.5 12.0 13.5 11.5 10.0	15.0 16.0 16.5 17.5 19.5 21.0 22.0 22.5 23.0 20.5 20.5 21.5 21.0	12.5 14.0 13.5 14.5 16.5 18.0 19.5 20.0 21.0 20.5 17.5 18.0 19.0 18.5 17.0	14.0 15.0 16.0 18.0 19.5 21.0 21.5 22.0 21.5 18.5 19.0 20.0 20.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY		7.5 7.5 7.5 7.5 8.5 9.0 11.5 12.5 13.0 12.0 8.0 9.5 10.0	MARCH 6.0 6.5 6.0 7.0 7.0 8.5 10.5 11.5 10.0 7.5 6.5 7.0 8.0	6.5 7.0 6.5 6.5 7.5 8.0 8.0 10.0 11.5 12.0 11.0 9.0 7.5 8.5 9.0	11.5 12.0 13.5 14.0 13.0 12.0 13.0 15.0 14.5 11.5 11.5 11.5	9.0 10.5 12.0 13.0 10.5 9.0 11.0 10.0 9.0 10.0 9.5 9.0 11.0	10.5 11.0 12.5 13.5 11.0 10.5 12.0 13.5 10.0 10.5 11.5 10.5 11.5 10.5	15.0 16.0 16.5 17.5 19.5 21.0 22.0 23.0 23.0 20.5 21.5 21.5 21.0 19.5	MAY 12.5 14.0 13.5 14.5 16.5 18.0 19.5 20.0 21.0 20.5 17.5 18.0 19.0 19.0 15.5	14.0 15.0 16.0 18.0 19.5 21.0 21.5 22.0 21.5 18.5 19.0 20.0 20.0 18.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		FEBRUARY		7.5 7.5 7.5 7.5 8.5 9.0 11.5 12.5 13.0 10.0 8.0 9.5 10.0	MARCH 6.0 6.5 6.0 7.0 7.0 7.0 8.5 10.5 11.5 10.0 7.5 6.5 7.0 7.5 9.0 8.0 5.5 5.5	6.5 7.0 6.5 6.5 7.5 8.0 8.0 11.5 12.0 11.0 9.0 7.5 8.5 9.0	11.5 12.0 13.5 14.0 13.0 12.0 13.0 15.0 14.5 11.5 11.5 11.5 12.0	9.0 10.5 12.0 13.0 10.5 9.0 11.0 12.0 10.0 9.0 10.0 9.5 9.0 11.0	10.5 11.0 12.5 13.5 11.0 10.5 12.0 13.5 11.5 10.0 10.5 11.5 11.5	15.0 16.0 16.5 17.5 19.5 21.0 22.0 23.0 23.0 20.5 20.5 21.5 21.0 19.5	MAY 12.5 14.0 13.5 14.5 16.5 18.0 19.5 20.0 21.0 20.5 17.5 18.0 19.0 18.5 17.0	14.0 15.0 15.0 16.0 18.0 19.5 21.0 21.5 22.0 21.5 18.5 19.0 20.0 20.0 18.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		FEBRUARY		7.5 7.5 7.5 7.5 8.5 9.0 11.5 12.5 13.0 10.0 8.0 9.5 10.0 10.5 11.0 8.0 8.0 8.5	MARCH 6.0 6.5 6.0 7.0 7.0 7.0 8.5 10.5 11.5 10.0 7.5 6.5 7.0 7.5 9.0 8.0 5.5 7.0	6.5 7.0 6.5 6.5 7.5 8.0 8.0 10.0 11.5 12.0 11.0 9.0 7.5 8.5 9.0	11.5 12.0 13.5 14.0 13.0 15.0 15.0 15.0 12.5 11.5 11.5 11.5 11.5 11.5 12.5 11.5	9.0 10.5 12.0 10.5 9.0 11.0 12.0 10.0 9.0 10.0 9.5 9.0 11.0	10.5 11.0 12.5 13.5 11.0 10.5 12.0 13.5 11.5 10.0 10.5 11.5 11.5 10.5 11.5 11	15.0 16.0 16.5 17.5 19.5 21.0 22.0 22.5 23.0 23.0 20.5 21.5 21.5 21.0 19.5	12.5 14.0 13.5 14.5 16.5 18.0 19.5 20.0 21.0 20.5 17.5 18.0 19.0 19.0 19.5 17.0	14.0 15.0 16.0 18.0 19.5 21.0 21.5 22.0 21.5 18.5 19.0 20.0 20.0 16.5 17.0 18.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		FEBRUARY		7.5 7.5 7.5 7.5 8.5 9.0 11.5 12.5 13.0 10.0 8.0 9.5 10.0	MARCH 6.0 6.5 6.0 7.0 7.0 7.0 8.5 10.5 11.5 10.0 7.5 6.5 7.0 7.5 9.0 8.0 5.5 5.5	6.5 7.0 6.5 6.5 7.5 8.0 8.0 11.5 12.0 11.0 9.0 7.5 8.5 9.0	11.5 12.0 13.5 14.0 13.0 12.0 13.0 15.0 14.5 11.5 11.5 11.5 12.0	9.0 10.5 12.0 13.0 10.5 9.0 11.0 12.0 10.0 9.0 10.0 9.5 9.0 11.0	10.5 11.0 12.5 13.5 11.0 10.5 12.0 13.5 11.5 10.0 10.5 11.5 11.5 10.5 11.5	15.0 16.0 16.5 17.5 19.5 21.0 22.0 23.0 23.0 20.5 20.5 21.5 21.0 19.5	MAY 12.5 14.0 13.5 14.5 16.5 18.0 19.5 20.0 21.0 20.5 17.5 18.0 19.0 18.5 17.0	14.0 15.0 15.0 16.0 18.0 19.5 21.0 21.5 22.0 21.5 18.5 19.0 20.0 20.0 18.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		FEBRUARY		7.5 7.5 7.5 7.5 8.5 9.0 11.5 12.5 13.0 10.0 8.0 9.5 11.0 8.0 8.0 8.5 10.0	MARCH 6.0 6.5 6.0 7.0 7.0 7.0 8.5 10.5 11.5 10.0 7.5 6.5 7.0 7.5 9.0 8.0 5.5 7.0 6.5 7.0	6.5 7.0 6.5 6.5 7.5 8.0 8.0 10.0 11.5 12.0 11.0 9.0 7.5 8.5 9.0	11.5 12.0 13.5 14.0 13.0 15.0 15.0 14.5 11.5 11.5 11.5 12.5 11.5 12.0 16.0 15.0 14.5 12.0	9.0 10.5 12.0 13.0 10.5 9.0 11.0 12.0 10.0 9.0 10.0 9.5 9.0 11.0 12.0 11.5	10.5 11.0 12.5 13.5 11.0 10.5 12.0 13.5 11.5 10.0 10.5 11.5 10.5 11.5 11.5 13.5 11.5 11.5	15.0 16.0 16.5 17.5 19.5 21.0 22.0 23.0 23.0 20.5 21.5 21.5 21.0 19.5 17.5 18.0 19.5 19.0 17.0	12.5 14.0 13.5 14.5 16.5 18.0 19.5 20.0 21.0 20.5 17.5 18.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19	14.0 15.0 16.0 18.0 19.5 21.0 21.5 22.0 21.5 18.5 19.0 20.0 20.0 18.0 16.5 17.0 18.0 15.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		FEBRUARY		7.5 7.5 7.5 7.5 8.5 9.0 11.5 12.5 13.0 12.0 10.0 8.0 9.5 10.0	MARCH 6.0 6.5 6.0 7.0 7.0 7.0 8.5 10.5 11.5 10.0 7.5 6.5 7.0 7.5 9.0 8.0 5.5 7.0 6.5 5.5	6.5 7.0 6.5 6.5 7.5 8.0 8.0 10.0 11.5 12.0 11.0 9.0 7.5 8.5 9.0	11.5 12.0 13.5 14.0 13.0 12.0 13.0 15.0 14.5 11.5 11.5 11.5 11.5 12.0 16.0 16.0 15.0 14.5 12.0	9.0 10.5 12.0 13.0 10.5 9.0 11.0 12.0 10.0 9.0 10.0 9.5 9.0 11.0 12.0 11.5 9.5 9.5 11.5	10.5 11.0 12.5 13.5 11.0 10.5 12.0 13.5 11.5 10.0 10.5 11.5 10.5 11.5 10.5 11.5	15.0 16.0 16.5 17.5 19.5 21.0 22.0 23.0 23.0 20.5 21.5 21.5 21.0 19.5 17.5 18.0 19.5 19.0 19.0 17.0	MAY 12.5 14.0 13.5 14.5 16.5 18.0 19.5 20.0 20.5 17.5 18.0 19.0 19.0 15.0 17.0 17.0 14.0	14.0 15.0 15.0 16.0 18.0 19.5 21.0 21.5 22.0 21.5 18.5 19.0 20.0 20.0 18.0 16.5 17.0 18.0 15.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26		FEBRUARY		7.5 7.5 7.5 7.5 8.5 9.0 11.5 12.5 13.0 10.0 9.5 10.0 8.0 8.0 8.5 10.0 8.5 10.0 8.5 11.0 8.0 8.5 11.0 8.0 8.5	MARCH 6.0 6.5 6.0 7.0 7.0 7.0 8.5 10.5 11.5 10.0 7.5 6.5 7.0 7.5 9.0 8.0 5.5 7.0 6.5 7.5 8.5 9.5	6.5 7.0 6.5 6.5 7.5 8.0 8.0 11.5 12.0 11.0 9.0 7.5 8.5 9.0 10.0 7.0 7.0 8.0 7.5 8.5 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10	11.5 12.0 13.5 14.0 13.0 12.0 13.0 14.5 11.5 11.5 11.5 12.0 16.0 16.0 16.0 15.0 12.5 12.0 16.0 13.0	### APRIL 9.0 10.5 12.0 13.0 10.5 9.0 11.0 12.0 10.0 9.0 11.0 11.5 9.5 9.5 11.5 12.0 11.0 11.0 11.5 9.5 9.5 11.5	10.5 11.0 12.5 13.5 11.0 10.5 12.0 10.5 11.5 10.5 11.5 10.5 11.5 11.5 11	15.0 16.0 16.5 17.5 19.5 21.0 22.0 23.0 23.0 20.5 20.5 21.5 21.0 19.5 17.5 18.0 19.5 19.0 17.0	MAY 12.5 14.0 13.5 14.5 16.5 18.0 19.5 20.0 21.0 20.5 17.5 18.0 19.0 18.5 17.0 15.0 17.0 14.0 13.5 14.0 13.5 14.5 16.5	14.0 15.0 15.0 16.0 18.0 19.5 21.0 21.5 22.0 21.5 18.5 19.0 20.0 20.0 18.0 16.5 17.0 18.0 15.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28		FEBRUARY		7.5 7.5 7.5 7.5 8.5 9.0 11.5 12.5 13.0 12.0 8.0 8.0 8.0 8.0 8.5 10.0 11.5 11.5 11.5 11.5	MARCH 6.0 6.5 6.0 7.0 7.0 8.5 10.5 11.5 10.0 7.5 6.5 7.0 7.5 9.0 8.0 5.5 7.0 6.5 5.5 7.0 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10	6.5 7.0 6.5 6.5 7.5 8.0 8.0 10.0 11.5 12.0 11.0 9.0 7.5 8.5 9.0 10.0 7.0 8.5 9.0 10.0 10.0 11.5 11.0 11.0 11.0 11.0 11	11.5 12.0 13.5 14.0 13.0 12.0 13.0 15.0 14.5 11.5 11.5 12.5 11.5 12.0 16.0 11.5 12.0 14.5 12.0 13.5 12.0 13.5	9.0 10.5 12.0 11.0 11.0 11.0 11.0 10.0 9.0 11.0 10.0 9.5 9.0 11.0 12.0 11.5 9.5 9.5 11.5	10.5 11.0 12.5 13.5 11.0 10.5 12.0 13.5 10.0 10.5 11.5 10.0 10.5 11.5 11.5 12.0 10.5 11.5 12.0 10.5 11.5	15.0 16.0 16.5 17.5 19.5 21.0 22.0 23.0 23.0 20.5 21.5 21.5 21.0 19.5 17.5 18.0 19.5 19.0 19.5 19.0 19.5 19.5	MAY 12.5 14.0 13.5 14.5 16.5 18.0 19.5 20.0 21.0 20.5 17.5 18.0 19.0 19.0 15.5 17.0 15.5 17.0 15.5 17.0 14.5 16.5	14.0 15.0 16.0 18.0 19.5 21.0 21.5 22.0 21.5 19.0 20.0 18.0 16.5 17.0 18.0 17.0 18.0 17.0 18.0 17.0 18.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30		FEBRUARY		7.5 7.5 7.5 7.5 8.5 9.0 11.5 12.5 13.0 10.0 8.0 9.5 10.0 8.0 8.0 8.5 10.5 10.5 10.5 11.5 11.5 11.5 11.5	MARCH 6.0 6.5 6.0 7.0 7.0 7.0 8.5 10.5 11.5 10.0 7.5 6.5 7.0 7.5 9.0 8.0 5.5 5.5 7.0 6.5 9.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10	6.5 7.0 6.5 6.5 7.5 8.0 8.0 10.0 11.5 12.0 11.0 9.0 7.5 8.5 9.0 10.0 7.0 8.0 7.0 8.0	11.5 12.0 13.5 14.0 13.0 12.0 13.0 14.5 11.5 11.5 11.5 12.0 16.0 16.0 11.5 12.0 15.0 14.5 12.0	### APRIL 9.0 10.5 12.0 13.0 10.5 9.0 11.0 12.0 10.0 9.0 10.0 11.5 9.5 9.5 11.5 12.0 11.0 11.0 11.5 9.5 11.5	10.5 11.0 12.5 13.5 11.0 10.5 12.0 10.5 11.5 10.0 10.5 11.5 10.0 10.5 11.5 11	15.0 16.0 16.5 17.5 19.5 21.0 22.0 23.0 23.0 20.5 20.5 21.5 21.0 19.5 17.5 18.0 19.5 17.0 14.0 14.0 15.0 18.0	12.5 14.0 13.5 14.5 16.5 18.0 19.5 20.0 20.5 17.5 18.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19	14.0 15.0 16.0 18.0 19.5 21.0 21.5 22.0 21.5 18.5 19.0 20.0 20.0 18.0 16.5 17.0 18.0 14.0 14.0 14.0 14.0 16.5 17.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29		FEBRUARY		7.5 7.5 7.5 7.5 7.5 8.5 8.5 9.0 11.5 12.5 13.0 10.0 8.0 9.5 10.0 8.0 8.5 10.5 11.0 8.0 8.5 10.5 11.5 11.5 11.5	MARCH 6.0 6.5 6.0 7.0 7.0 8.5 10.5 11.5 10.0 7.5 9.0 8.0 5.5 7.0 6.5 7.0 6.5 7.5 8.5 9.5 10.5 10.5 10.5	6.5 7.0 6.5 6.5 7.5 8.0 8.0 11.5 12.0 11.0 9.0 7.5 8.5 9.0 10.0 7.0 7.0 8.0 7.5 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10	11.5 12.0 13.5 14.0 13.0 12.0 13.0 14.5 11.5 11.5 11.5 12.0 16.0 16.0 15.0 12.5 12.0 16.0 12.5 12.0 15.0	### APRIL 9.0 10.5 12.0 13.0 10.5 9.0 11.0 10.0 9.0 10.0 10.0 11.5 9.5 9.5 11.5 12.0 11.0 11.0 11.5 12.0 11.0 11.5 12.0 11.5 12.0 11.5	10.5 11.0 12.5 13.5 11.0 10.5 12.0 10.5 11.5 10.5 11.5 10.5 11.5 11.5 12.0 12.5 11.5 11.5 11.5	15.0 16.0 16.5 17.5 19.5 21.0 22.0 23.0 23.0 20.5 20.5 21.5 21.0 19.5 17.5 18.0 19.5 19.0 17.0	12.5 14.0 13.5 14.5 16.5 18.0 19.5 20.0 21.0 20.5 17.5 18.0 19.0 19.0 15.5 17.0 15.5 17.0 15.5 17.0 15.5 17.0 14.0 13.5 14.5 14.5 14.5	14.0 15.0 16.0 18.0 19.5 21.0 21.5 22.0 21.5 18.5 19.0 20.0 20.0 18.0 16.5 17.0 18.0 15.0

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1 2 3 4 5	19.5 22.0 22.5 21.5 19.5	16.0 19.0 20.5 19.5 18.5	18.0 20.5 21.5 20.5 19.0	23.0 23.5 24.0 24.5 26.0	20.5 21.0 22.0 22.5 23.0	22.0 22.5 23.0 23.5 24.5	25.0 26.0 25.5 24.0 23.5	24.0 24.0 24.0 22.0 21.5	24.5 25.0 24.5 23.0 22.5	24.5 24.5 24.5 24.5 23.5	22.5 23.5 23.0 23.5 21.0	23.5 24.0 24.0 24.0 22.0
6 7 8 9 10	18.5 18.5 19.5 21.5 23.5	16.0 15.0 17.0 18.5 20.5	17.0 16.5 18.5 20.0 22.0	23.0 23.0 25.0	20.5 20.5 20.5 22.5	22.0 22.0 23.5	23.0 24.0 25.5 26.5 26.5	21.0 21.0 23.0 24.5 25.0	21.5 22.5 24.5 25.5 25.5	21.0 20.0 19.5 21.0 22.5	18.5 17.0 17.0 18.0 20.0	19.5 18.5 18.5 19.5 21.0
11 12 13 14 15	25.0 25.0 23.0 19.0 18.5	22.5 23.0 19.0 18.0 17.5	24.0 24.5 21.0 18.0 18.0	25.0 24.5 23.5 22.5 21.5	23.5 22.0 22.0 21.0 20.5	24.5 23.5 23.0 21.5 21.0	26.0 25.0 23.0 20.0 22.0	24.5 23.0 19.5 19.5 19.0	25.5 24.0 20.5 20.0 20.5	22.5 23.5 23.0 21.5 21.0	21.0 21.0 21.5 19.5	21.5 22.5 22.5 21.0 20.0
16 17 18 19 20	21.0 23.5 22.0	18.5 20.5 19.0	19.5 22.0 20.5	21.5 22.0 23.5 23.0 21.5	20.0 20.0 21.0 20.0 19.0	21.0 21.0 22.5 21.5 20.0	23.5 23.0 22.0 20.5 21.0	21.5 21.0 20.0 18.5 19.0	22.5 22.0 21.0 20.0 20.0	19.5 17.5 17.5 17.5 19.5	17.5 15.5 16.0 16.5 17.0	18.0 17.0 17.0 17.0 18.0
21 22 23 24 25	22.0 22.0 23.5 23.5 25.5	20.5 20.5 21.0 21.5 22.5	21.0 21.5 22.0 22.5 23.5	22.5 23.5 23.5 22.5 21.5	20.0 21.0 21.0 21.0 20.0	21.0 22.5 22.5 21.5 21.0	21.0 21.0 20.5 21.0 22.5	18.0 18.0 19.0 19.5 20.0	19.5 19.5 20.0 20.5 21.5	20.0 19.0 18.0 18.5 18.5	18.5 17.5 17.0 17.0	19.0 18.5 17.0 17.5 17.5
26 27 28 29 30 31	26.0 25.5 24.5 22.5 22.5	24.0 24.5 22.0 21.0 20.5	25.0 25.0 23.5 21.5 21.5	21.0 20.5 23.0 23.5 24.5 25.0	19.5 19.5 20.0 22.0 22.5 23.5	20.5 20.0 21.5 22.5 23.5 24.0	22.5 22.5 22.5 22.0 23.0 23.5	20.0 20.5 21.0 21.5 21.0 22.0	21.5 21.5 22.0 22.0 22.0 23.0	15.5 14.5 15.0 14.5 14.0	13.0 12.5 13.5 13.5 12.5	13.5 13.5 14.5 14.0 13.5
MONTH	26.0	15.0	21.0	26.0	19.0	22.2	26.5	18.0	22.2	24.5	12.5	18.9

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER	£		NOVEMBER	!		DECEMBER	!		JANUARY	
1				9.9	8.4	9.1	13.1	11.9	12.6			
2												
3												
4				10.0	8.9	9.5						
5				10.9	9.9	10.4						
6				10.8	9.9	10.3						
7				10.6	9.5	10.1						
8				11.3	10.0	10.7						
9				11.6	10.4	11.0						
10				11.3	10.0	10.6						
11				10.2	9.1	9.7						
12				11.6	9.7	10.6						
13				11.9	10.1	11.0						
14				11.7	10.2	10.9						
15				12.0	10.1	11.1						
16				12.5	10.6	11.6						
17				13.5	11.6	12.5						
18				13.8	12.4	13.1						
19				13.8	12.4	13.1						
20				13.4	11.8	12.5						
21				12.3	10.6	11.4						
22				11.2	9.9	10.5						
23				10.9	9.3	10.0						
24				10.1	8.7	9.4						
25				9.2	8.4	8.8						
26				9.9	8.7	9.2						
27				9.4	8.5	9.0						
28				10.3	9.4	9.9						
29	10.9	9.6	10.3	11.2	10.3	10.8						
30	10.9	9.6	10.2	12.1	11.0	11.6						
31	10.7	9.2	9.9									
MONTH	10.9	9.2	10.1	13.8	8.4	10.7	13.1	11.9	12.6			

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUAR	Y		MARCH			APRIL			MAY	
1 2				12.9 12.3	10.9 10.7	11.9 11.4	11.5 11.5	10.0 10.0	10.8 10.6	11.1 10.6	9.6 9.4	10.3
3 4				12.6 13.0	10.1 11.5	11.7 12.4		9.8 9.2	10.4 9.5	11.1 11.4	9.3 9.2	10.1 10.2
5				12.6	11.2	11.9	11.8	9.6	10.7	11.2	8.7	9.8
6 7				12.8 13.0	10.3 11.2	11.7 12.1	12.0 12.1	10.4	11.1 10.8	11.1 10.7	8.1 7.7	9.4 9.1
8 9				13.0 12.8	10.4 9.7	11.7 11.2	11.6 11.6	9.6 9.2	10.4 10.5	10.4 9.9	7.3 7.0	8.7 8.4
10				13.1	9.6	11.4	12.4	10.8	11.5	9.5	6.8	7.9
11 12				11.5 11.8	10.0 10.0	10.8 10.8	12.0 12.3	10.3 10.4	11.1 11.3	8.7 9.0	7.5 7.7	8.0 8.2
13				15.1	11.0	12.8	12.7	10.5	11.5	8.9	7.4	8.0
14 15				15.3 14.3	11.8 12.4	13.6 13.5	12.8 11.7	10.7 10.1	11.7 10.9	8.2 9.2	7.4 7.8	7.7 8.6
16				14.1	10.0	12.3	11.4	9.6	10.4	10.0	8.6	9.2
17 18				12.1 13.5	9.4 10.9	10.6 12.3	9.9 11.2	8.5 9.9	9.2 10.6	9.7 9.4	8.8 8.4	9.2 8.8
19 20				14.1 14.0	11.7 11.1	12.8 12.5	12.1 11.0	10.6 9.7	11.2 10.4	8.6 9.7	8.0 8.5	8.3 9.1
21				12.1	10.7	11.5	9.8	9.2	9.5	9.9	9.7	9.8
22 23							10.2 10.6	9.8 10.0	10.0 10.3	9.8 9.7	9.6 9.2	9.6 9.6
24				10.3	9.5	10.0	10.8	9.8	10.4	9.2	8.5	9.0
25 26	12.5	11.4	11.9	10.1	9.5 9.4	9.8 9.7	10.5 11.2	9.6	10.0	9.0 9.4	8.4	8.7
27	12.8	11.7	12.3	10.6	9.5	10.1	11.0	10.3	10.7	9.1	8.4	8.8
28 29	12.3 13.4	9.1 12.2	11.4 12.9	9.6 10.4	9.3 9.5	9.5 10.0	11.3 10.9	10.5 9.9	10.9 10.5	9.5 9.4	8.8 8.7	9.1 9.1
30 31				11.1 11.3	10.2 10.2	10.6 10.7	10.6	10.5 9.9 9.6	10.1	9.4 9.8 10.1	8.7 8.8	9.2 9.3
MONTH	13.4	9.1	12.1	15.3	9.3	11.4	12.8	8.5	10.6	11.4	6.8	9.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN		MIN SEPTEMBE	
1	10.3	JUNE 8.4	9.2	8.7	JULY 7.6	8.1	8.8	AUGUST	7.8	9.1	SEPTEMBE 6.9	7.8
1 2 3	10.3 10.1 10.5	JUNE 8.4 7.6 7.1	9.2 8.7 8.6	8.7 8.7 8.7	JULY 7.6 7.6 7.4	8.1 8.1 7.9	8.8 9.2 8.7	7.1 7.2 6.9	7.8 8.0 7.7	9.1 8.6 8.9	SEPTEMBE 6.9 6.8 6.7	7.8 7.6 7.6
1 2	10.3 10.1	JUNE 8.4 7.6 7.1	9.2 8.7	8.7 8.7	JULY 7.6 7.6	8.1 8.1	8.8 9.2	7.1 7.2	7.8 8.0	9.1 8.6	SEPTEMBE 6.9 6.8	7.8 7.6
1 2 3 4 5	10.3 10.1 10.5 11.0 11.1	8.4 7.6 7.1 7.3 7.5	9.2 8.7 8.6 9.0 9.3	8.7 8.7 8.7 8.2 8.4	7.6 7.6 7.4 7.1 6.8	8.1 8.1 7.9 7.6 7.5	8.8 9.2 8.7 7.6 8.3	7.1 7.2 6.9 7.2 7.2	7.8 8.0 7.7 7.4 7.7	9.1 8.6 8.9 8.2 9.2	6.9 6.8 6.7 6.7 7.0	7.8 7.6 7.6 7.3 7.9
1 2 3 4 5	10.3 10.1 10.5 11.0 11.1	8.4 7.6 7.1 7.3 7.5	9.2 8.7 8.6 9.0 9.3	8.7 8.7 8.7 8.2 8.4	7.6 7.6 7.4 7.1 6.8	8.1 8.1 7.9 7.6 7.5	8.8 9.2 8.7 7.6 8.3	7.1 7.2 6.9 7.2 7.2	7.8 8.0 7.7 7.4 7.7	9.1 8.6 8.9 8.2 9.2	6.9 6.8 6.7 6.7	7.8 7.6 7.6 7.3 7.9
1 2 3 4 5	10.3 10.1 10.5 11.0 11.1 8.9 9.8	3.4 7.6 7.1 7.3 7.5 7.8 8.1	9.2 8.7 8.6 9.0 9.3 8.3 8.8	8.7 8.7 8.7 8.2 8.4	7.6 7.6 7.4 7.1 6.8	8.1 8.1 7.9 7.6 7.5	8.8 9.2 8.7 7.6 8.3 8.3	7.1 7.2 6.9 7.2 7.2 7.4 7.6 7.1 6.6	7.8 8.0 7.7 7.4 7.7 7.8 8.0 7.7 7.5	9.1 8.6 8.9 8.2 9.2 10.1 10.7 11.0	6.9 6.8 6.7 7.0 7.9 8.5 8.7 8.5	7.8 7.6 7.6 7.3 7.9 8.8 9.3 9.6 9.4
1 2 3 4 5 6 7 8 9	10.3 10.1 10.5 11.0 11.1 8.9 9.8 9.8 9.3 8.6	3.4 7.6 7.1 7.3 7.5 7.8 8.1 7.7 7.3 6.7	9.2 8.7 8.6 9.0 9.3 8.3 8.8 8.7 8.2	8.7 8.7 8.7 8.2 8.4 9.7 9.9	7.6 7.6 7.4 7.1 6.8	8.1 8.1 7.9 7.6 7.5	8.8 9.2 8.7 7.6 8.3 8.3 8.7 8.6 8.7	7.1 7.2 6.9 7.2 7.2 7.4 7.6 7.1 6.6	7.8 8.0 7.7 7.4 7.7 7.8 8.0 7.7 7.5 7.4	9.1 8.6 8.9 8.2 9.2 10.1 10.7 11.0 10.8	6.9 6.8 6.7 6.7 7.0 7.9 8.5 8.7	7.8 7.6 7.6 7.3 7.9 8.8 9.3 9.6 9.4
1 2 3 4 5 6 7 8 9 10	10.3 10.1 10.5 11.0 11.1 8.9 9.8 9.8 9.3 8.6	3.4 7.6 7.1 7.3 7.5 7.8 8.1 7.7 7.3 6.7	9.2 8.7 8.6 9.0 9.3 8.3 8.8 8.7 7.5	8.7 8.7 8.2 8.4 9.7 9.9 9.5	7.6 7.6 7.4 7.1 6.8 7.9 8.0 7.6	8.1 8.1 7.9 7.6 7.5 8.7 8.8 8.4	8.8 9.2 8.7 7.6 8.3 8.7 8.6 8.7 8.7	7.1 7.2 6.9 7.2 7.2 7.4 7.6 7.1 6.6 6.4	7.8 8.0 7.7 7.4 7.7 7.8 8.0 7.7 7.5 7.4	9.1 8.6 8.9 8.2 9.2 10.1 10.7 11.0 10.8 10.5	6.9 6.8 6.7 6.7 7.0 7.9 8.5 8.7 8.5	7.8 7.6 7.6 7.3 7.9 8.8 9.3 9.6 9.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14	10.3 10.1 10.5 11.0 11.1 8.9 9.8 9.3 8.6 7.0 7.5 7.8	3.4 7.6 7.1 7.3 7.5 7.8 8.1 7.7 7.3 6.7 6.2 5.7 6.3 7.2	9.2 8.7 8.6 9.0 9.3 8.3 8.8 7.5 7.0 6.4 6.4 7.5	8.7 8.7 8.2 8.4 9.7 9.9 9.5 9.4 9.7 9.9	7.6 7.6 7.4 7.1 6.8 7.9 8.0 7.6 7.1 7.4 7.6 7.5	8.1 8.1 7.9 7.6 7.5 8.7 8.8 8.4 8.0 8.4 8.5 8.0	8.8 9.2 8.7 7.6 8.3 8.7 8.6 8.7 8.7 8.7	7.1 7.2 6.9 7.2 7.2 7.4 7.6 7.1 6.6 6.4 6.4 6.5 6.9	7.8 8.0 7.7 7.4 7.7 7.8 8.0 7.7 7.5 7.4 7.6 7.0 7.3	9.1 8.6 8.9 8.2 9.2 10.1 10.7 11.0 10.8 10.5	6.9 6.8 6.7 6.7 7.0 7.9 8.5 8.7 8.5 8.0 7.7 7.5 7.4	7.8 7.6 7.6 7.3 7.9 8.8 9.3 9.4 9.0 8.7 8.5 7.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	10.3 10.1 10.5 11.0 11.1 8.9 9.8 9.8 9.3 8.6 7.9 7.5 7.8 8.3	3.4 7.6 7.1 7.3 7.5 7.8 8.1 7.7 7.3 6.7 6.2 5.7 6.3 7.2	9.2 8.7 8.6 9.0 9.3 8.3 8.7 8.7 7.5 7.5 7.5	8.7 8.7 8.7 8.2 8.4 9.7 9.9 9.5 9.4 9.7 9.9 8.8 8.7	7.6 7.6 7.4 7.1 6.8 7.9 8.0 7.6 7.1 7.4 7.5	8.1 8.1 7.9 7.6 7.5 8.7 8.8 8.4 8.4 8.5 8.0 8.0	8.8 9.2 8.7 7.6 8.3 8.7 8.6 8.7 8.7 8.7 8.7 8.7 8.7	7.1 7.2 6.9 7.2 7.2 7.4 7.6 7.1 6.6 6.4 6.5 6.9 6.9	7.8 8.0 7.7 7.4 7.7 7.8 8.0 7.7 7.5 7.5 7.6 7.0 7.3 7.7	9.1 8.6 8.9 8.2 9.2 10.1 10.7 11.0 10.8 10.5	6.9 6.8 6.7 7.0 7.9 8.5 8.7 8.5 8.7 7.4 7.4	7.8 7.6 7.6 7.3 7.9 8.8 9.3 9.6 9.4 9.0 8.7 8.5 7.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	10.3 10.1 10.5 11.0 11.1 8.9 9.8 9.8 9.3 8.6 7.9 7.5 7.8 8.3	3.4 7.6 7.1 7.3 7.5 7.8 8.1 7.7 7.3 6.7 6.2 5.7 6.3 7.4	9.2 8.7 8.6 9.0 9.3 8.3 8.8 8.7 7.5 7.0 6.4 6.9 7.5 7.8	8.7 8.7 8.2 8.4 9.7 9.9 9.5 9.4 9.7 9.9 8.8 8.7	7.6 7.6 7.1 6.8 7.9 8.0 7.6 7.1 7.6 7.5 7.7	8.1 8.1 7.9 7.6 7.5 8.7 8.8 8.4 8.4 8.5 8.0 8.4 8.5 8.0	8.8 9.2 8.7 7.6 8.3 8.7 8.6 8.7 8.7 8.7 8.9 9.1 7.6 7.8 8.5	7.1 7.2 6.9 7.2 7.4 7.6 7.1 6.6 6.4 6.4 6.5 6.9 7.1	7.8 8.0 7.7 7.4 7.7 7.8 8.0 7.7 7.5 7.4 7.6 7.0 7.3 7.7	9.1 8.6 8.9 8.2 9.2 10.1 10.7 11.0 10.8 10.5 10.3 8.9 9.3 8.2	6.9 6.8 6.7 6.7 7.0 7.9 8.5 8.7 8.5 8.0 7.7 7.5 7.4 7.7	7.8 7.6 7.6 7.3 7.9 8.8 9.3 9.4 9.0 8.7 7.9 8.7 8.5 7.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	10.3 10.1 10.5 11.0 11.1 8.9 9.8 9.8 9.3 8.6 7.9 7.5 7.8 8.3	3.4 7.6 7.1 7.3 7.5 7.8 8.1 7.7 7.3 6.7 6.2 5.7 6.3 7.2 7.4	9.2 8.7 8.6 9.0 9.3 8.3 8.8 7.5 7.5 7.5 7.5 7.5	8.7 8.7 8.7 8.2 8.4 9.7 9.9 9.5 9.4 9.7 9.9 8.8 8.7	7.6 7.6 7.4 7.1 6.8 7.9 8.0 7.6 7.1 7.4 7.6 7.5 7.7	8.1 8.1 7.9 7.6 7.5 8.7 8.4 8.4 8.5 8.0 8.0 8.1 8.2 8.4	8.8 9.2 8.7 7.6 8.3 8.7 8.6 8.7 8.7 8.7 8.9 9.1 7.6 7.8 8.5	7.1 7.2 6.9 7.2 7.4 7.6 7.1 6.6 6.4 6.5 6.9 7.1 6.5 6.2 7.0	7.8 8.0 7.7 7.4 7.7 7.8 8.0 7.7 7.5 7.4 7.5 7.6 7.0 7.3 7.7	9.1 8.6 8.9 8.2 9.2 10.1 10.7 11.0 10.8 10.5 10.3 10.3 8.9 9.3 8.2 9.1 10.0	6.9 6.8 6.7 7.0 7.9 8.5 8.7 8.5 8.7 7.4 7.7 7.9 8.6 8.9	7.8 7.6 7.6 7.3 7.9 8.8 9.3 9.6 9.0 8.7 7.9 8.5 7.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	10.3 10.1 10.5 11.0 11.1 8.9 9.8 9.8 9.3 8.6 7.9 7.5 7.8 8.3	3.4 7.6 7.1 7.3 7.5 7.8 8.1 7.7 7.3 6.7 6.2 5.7 6.3 7.4	9.2 8.7 8.6 9.0 9.3 8.3 8.8 8.7 7.5 7.0 6.4 6.9 7.5 7.8	8.7 8.7 8.2 8.4 9.7 9.9 9.5 9.4 9.7 9.9 8.8 8.7	7.6 7.6 7.1 6.8 7.9 8.0 7.6 7.1 7.6 7.5 7.7	8.1 8.1 7.9 7.6 7.5 8.7 8.8 8.4 8.4 8.5 8.0 8.4 8.5 8.0	8.8 9.2 8.7 7.6 8.3 8.7 8.6 8.7 8.7 8.7 8.9 9.1 7.6 7.8 8.5	7.1 7.2 6.9 7.2 7.4 7.6 7.1 6.6 6.4 6.4 6.5 6.9 7.1	7.8 8.0 7.7 7.4 7.7 7.8 8.0 7.7 7.5 7.4 7.6 7.0 7.3 7.7	9.1 8.6 8.9 8.2 9.2 10.1 10.7 11.0 10.8 10.5 10.3 8.9 9.3 8.2	6.9 6.8 6.7 6.7 7.0 7.9 8.5 8.7 8.5 8.0 7.7 7.5 7.4 7.7	7.8 7.6 7.6 7.3 7.9 8.8 9.3 9.4 9.0 8.7 7.9 8.7 8.5 7.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	10.3 10.1 11.0 11.1 8.9 9.8 9.3 8.6 7.9 7.0 7.5 7.8 8.3 7.9 7.6 	3.4 7.6 7.1 7.3 7.5 7.8 8.1 7.7 7.3 6.7 6.2 5.7 6.3 7.2 7.4 7.1 6.5 7.5	9.2 8.7 8.6 9.0 9.3 8.3 8.8 8.2 7.5 7.0 6.4 6.4 7.5 7.8 7.5 7.0	8.7 8.7 8.2 8.4 9.7 9.9 9.5 9.4 9.7 9.9 8.8 8.7 9.1 9.3 9.1 9.5	7.6 7.6 7.4 7.1 6.8 7.9 8.0 7.6 7.1 7.4 7.5 7.7 7.6 7.7 7.7 7.7 7.8 7.9	8.1 8.1 7.6 7.5 7.5 8.7 8.8 8.4 8.0 8.4 8.0 8.4 8.0 8.4 8.5 8.4 8.5 8.5	8.8 9.2 8.7 7.6 8.3 8.7 8.6 8.7 8.7 8.9 9.1 7.6 7.8 8.5 8.3 8.7	7.1 7.2 6.9 7.2 7.4 7.6 7.1 6.6 6.4 6.5 6.9 7.1 6.5 6.2 7.0 7.2 7.5	7.8 8.0 7.7 7.4 7.7 7.8 8.0 7.7 7.5 7.4 7.5 7.6 7.0 7.3 7.7 7.3 7.3 8.3 8.3	9.1 8.6 8.9 8.2 9.2 10.1 10.7 11.0 10.8 10.5 10.3 8.9 9.3 8.2 9.1 10.0 10.4 9.2 8.8	6.9 6.8 6.7 6.7 7.0 7.9 8.5 8.7 8.5 8.0 7.7 7.4 7.4 7.7 7.9 8.6 8.9 8.5 8.4	7.8 7.6 7.6 7.3 7.9 8.8 9.3 9.4 9.0 8.7 7.9 8.5 9.2 8.5 9.2 8.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	10.3 10.1 10.5 11.0 11.1 8.9 9.8 9.8 9.3 8.6 7.0 7.5 7.8 8.3 7.9 7.6 7.9	3.4 7.6 7.1 7.3 7.5 7.8 8.1 7.7 7.3 6.7 6.2 5.7 6.3 7.4 7.1 6.5 7.5 7.5 7.5 7.7 7.3	9.2 8.7 8.6 9.0 9.3 8.3 8.8 8.7 8.2 7.5 7.0 6.4 6.9 7.5 7.8 7.5 7.7	8.7 8.7 8.7 8.2 8.4 9.7 9.9 9.5 9.4 9.7 9.9 8.8 8.7 9.1 7.9 9.5	7.6 7.6 7.1 6.8 7.9 8.0 7.6 7.1 7.6 7.5 7.7 7.6 7.2 7.9 7.8 7.6 7.1	8.1 8.1 7.6 7.5 8.7 8.4 8.4 8.5 8.0 8.4 8.5 8.0 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	8.8 9.2 8.7 7.6 8.3 8.7 8.6 8.7 8.7 8.9 9.1 7.6 7.8 8.5 8.3 8.7 7.5 9.2 9.5	7.1 7.2 6.9 7.2 7.4 7.6 7.1 6.6 6.4 6.5 6.9 7.1 6.5 6.2 7.0 7.2 7.5	7.8 8.0 7.7 7.4 7.7 7.8 8.0 7.7 7.5 7.4 7.6 7.0 7.3 7.3 7.2 8.1 8.3 8.5 8.5 8.4	9.1 8.6 8.9 8.2 9.2 10.1 10.7 11.0 10.8 10.5 10.3 8.9 9.3 8.2 9.1 10.0 10.4 9.2 8.8	6.9 6.8 6.7 7.0 7.9 8.5 8.7 7.5 7.4 7.7 7.9 8.6 8.9 8.4 8.1 8.3 8.6	7.8 7.6 7.6 7.3 7.9 8.8 9.6 9.0 8.7 7.9 8.5 9.5 8.5 9.5 8.5 8.5 8.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	10.3 10.1 10.5 11.0 11.1 8.9 9.8 9.3 8.6 7.0 7.5 7.8 8.3 7.9 7.6 7.9	3.4 7.6 7.1 7.3 7.5 7.8 8.1 7.7 7.3 6.7 6.2 5.7 6.3 7.4 7.1 6.5 7.5 7.4	9.2 8.7 8.6 9.0 9.3 8.3 8.8 8.2 7.5 7.0 6.4 6.9 7.8 7.5 7.7 7.7	8.7 8.7 8.2 8.4 9.7 9.9 9.5 9.4 9.7 9.9 8.8 8.7	7.6 7.6 7.4 7.1 6.8 7.9 8.0 7.6 7.1 7.4 7.5 7.7 7.6 7.7 7.6 7.7 7.6 7.7 7.6 7.7 7.6	8.1 8.1 7.9 7.6 7.5 8.7 8.8 8.4 8.0 8.4 8.5 8.0 8.2 8.4 8.3 7.6 8.5 8.5 8.5	8.8 9.2 8.7 7.6 8.3 8.7 8.6 8.7 8.7 8.7 8.9 9.1 7.6 7.8 8.5	7.1 7.2 6.9 7.2 7.4 7.6 7.1 6.6 6.4 6.5 6.9 7.1 6.5 6.2 7.0 7.2 7.8	7.8 8.0 7.7 7.4 7.7 7.8 8.0 7.7 7.5 7.4 7.5 7.6 7.3 7.7 7.3 7.3 8.3	9.1 8.6 8.9 8.2 9.2 10.1 10.7 11.0 10.8 10.5 10.3 8.9 9.3 8.2 9.1 10.0 10.4 9.2 8.8	6.9 6.8 6.7 7.0 7.9 8.5 8.7 8.5 8.7 7.5 4 7.7 7.4 7.7 7.9 8.6 8.9 8.5 8.9	7.8 7.6 7.6 7.3 7.9 8.8 9.6 9.0 8.7 7.9 8.5 7.9 8.5 9.6 8.5 9.5 8.5 8.5 8.5 8.5 8.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	10.3 10.1 11.0 11.1 8.9 9.8 9.3 8.6 7.9 7.0 7.5 7.8 8.3 7.9 7.6 7.6 7.9 7.9 7.9	## STANCE State	9.2 8.6 9.0 9.3 8.3 8.8 7.5 7.0 4.9 7.5 7.5 7.7 7.5 7.5 7.5 7.5 7.5	8.7 8.7 8.2 8.4 9.7 9.9 9.5 9.4 9.7 9.9 8.8 8.7 9.1 7.9 9.5 9.5 9.4 9.5 8.6 9.6 8.5	7.6 7.6 7.1 6.8 7.9 8.0 7.6 7.1 7.4 7.5 7.7 7.6 7.2 7.9 7.8 7.6 7.1 7.8 8.0	8.1 8.1 7.6 7.5 7.6 7.5 8.7 8.8 8.4 8.0 8.4 8.0 8.2 8.3 7.6 8.5 8.3 8.4 8.7 8.3	8.8 9.2 8.7 7.6 8.3 8.7 8.7 8.7 8.7 8.9 9.1 7.6 7.8 8.5 8.3 8.7 7.5 9.2 9.5 9.5	7.1 7.2 6.9 7.2 7.4 7.6 6.4 6.4 6.5 6.9 7.1 6.5 6.2 7.5 7.7 7.8 7.6 7.3 7.4 7.1	7.8 8.0 7.7 7.4 7.7 7.8 8.0 7.7 7.5 7.4 7.5 7.6 7.3 7.7 7.3 7.3 8.3 8.5 8.7 8.4 8.4	9.1 8.6 8.9 8.2 9.2 10.1 10.7 11.0 10.8 10.5 10.3 8.9 9.3 8.2 9.1 10.0 4 9.2 8.8 9.2 9.7 9.6 9.6	6.9 6.8 6.7 6.7 7.0 7.9 8.5 8.0 7.7 7.4 7.4 7.7 7.9 8.6 8.9 8.5 8.4 8.3 8.4 8.3 8.4 8.3	7.86 7.66 7.39 8.83 9.44 9.0 8.59 8.5 9.28 8.5 8.88 8.88 8.88 8.88 9.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	10.3 10.1 11.0 11.1 8.9 9.8 9.8 9.3 8.6 7.0 7.5 7.5 8.3 7.6 7.6 7.9 7.6 7.9 7.9 7.9 8.0 8.0	## 3.4 ## 7.6 ## 7.5 ## 7.5 ## 7.3 ## 7.5 ## 7.3 ## 7.3 ## 7.3 ## 7.3 ## 7.4 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ## 7.5 ##	9.27 8.6 9.3 8.8 8.7 7.5 7.0 6.4 9.5 7.5 7.7 7.7 7.7 7.6 7.5 7.4 7.5	8.7 8.7 8.2 8.4 9.7 9.9 9.5 9.4 9.7 9.3 9.1 7.9 9.5 8.8 8.7	7.6 7.6 7.1 6.8 7.9 8.0 7.6 7.14 7.65 7.5 7.7 7.6 7.2 7.8 8.0 8.0 8.2 8.0	8.1 8.1 7.6 7.5 8.7 8.8 8.4 8.5 8.0 8.4 8.3 7.6 8.3 8.4 8.3 8.4 8.3 8.4 8.3 8.4 8.3 8.4 8.3 8.4 8.3 8.4 8.3 8.4 8.5 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	8.8 9.2 8.7 7.6 8.3 8.7 8.6 8.7 8.7 8.9 9.1 7.6 7.8 8.5 8.3 8.7 7.5 9.2 9.5 9.8 10.0 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10	7.1 7.2 6.9 7.2 7.4 7.6 7.1 6.5 6.9 7.1 6.5 6.9 7.1 6.5 7.7 7.8 7.6 7.3 7.4 7.1 7.1 7.2	7.8 8.0 7.7 7.4 7.7 7.8 8.0 7.7 7.5 7.4 7.5 7.6 7.0 7.3 7.7 7.3 7.2 8.1 8.4 8.4 8.4 8.4 8.4 8.5 8.1	9.1 8.6 8.9 8.2 9.2 10.1 10.7 11.0 10.8 10.5 10.3 8.9 9.3 8.2 9.1 10.0 10.4 9.2 8.8 9.2 9.7 9.1 9.6 9.6	6.9 6.8 6.7 7.0 7.9 8.5 8.7 7.5 8.7 7.5 8.7 7.5 8.9 8.9 8.9 8.5 8.9 8.9 8.9 8.9	7.86 7.66 7.39 8.3 9.64 9.0 7.59 8.5 7.9 8.5 9.8 8.5 9.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 9.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27	10.3 10.1 11.0 11.1 8.9 9.8 9.3 8.6 7.0 7.5 7.8 8.3 7.6 7.6 7.6 7.6 7.6 7.6 7.9 7.6	3.4 7.6 7.1 7.3 7.5 7.8 8.1 7.7 7.3 6.7 6.2 5.7 6.2 5.7 7.4 7.1 6.5 7.5 7.4 7.3 7.2 7.6 7.5 7.6 7.6 7.6 7.7 7.3 7.2 7.6 7.6 7.7 7.3 7.2 7.6 7.6 7.6 7.7 7.6 7.7 7.7 7.7 7.7 7.7	9.2 8.7 8.0 9.3 8.3 8.8 7.5 7.0 6.4 9.5 7.5 7.7 7.5 7.4 7.5 7.4 7.5 7.5	8.7 8.7 8.7 8.2 8.4 9.7 9.9 9.5 9.4 9.7 9.3 9.1 9.3 9.1 9.5 8.8 8.7	7.6 7.6 7.7 7.1 6.8 7.9 8.0 7.6 7.1 7.4 7.5 7.7 7.6 7.7 7.6 7.7 7.6 7.1 7.8 8.0 8.2	8.1 8.1 7.6 7.5 8.7 8.8 8.4 8.0 8.4 8.0 8.4 8.5 8.3 8.4 8.5 8.5 8.3 8.4 8.7	8.8 9.2 8.7 7.6 8.3 8.7 8.6 8.7 8.7 8.7 8.9 9.1 7.6 7.8 8.5 8.3 8.7 7.5 9.2 9.5 9.8 10.2 9.8 10.0 10.2	7.1 7.2 6.9 7.2 7.4 7.6 6.4 6.5 6.9 7.1 6.5 6.9 7.1 6.5 7.0 7.2 7.8 7.6 7.1	7.8 8.0 7.4 7.7 7.8 8.0 7.7 7.5 7.4 7.5 7.6 7.3 7.7 7.3 7.3 8.3 8.4 8.4 8.4 8.4	9.1 8.6 8.9 8.2 9.2 10.1 10.7 11.0 10.8 10.5 10.3 8.9 9.3 8.2 9.1 10.0 10.4 9.2 8.8 9.2 9.7 9.6 9.6	6.9 6.8 6.7 7.0 7.9 8.5 8.7 8.5 8.0 7.5 4 7.5 4 7.7 7.9 8.6 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9	7.86 7.66 7.39 8.36 9.0 8.5 9.2 8.5 9.5 8.5 8.8 8.8 8.8 8.8 8.8 9.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	10.3 10.1 11.0 11.1 8.9 9.8 9.3 8.6 7.9 7.05 7.8 8.3 7.9 7.6 7.6 7.6 7.9 7.6 7.9 7.9 7.9	## STANCE S. 4	9.27 8.69.03 8.38.87 7.57 7.54 7.57 7.54 7.55 7.56	8.7 8.7 8.2 8.4 9.7 9.9 9.5 9.4 9.7 9.9 8.8 8.7 9.1 7.9 9.5 9.4 9.5 8.6 9.6 8.5 8.6 9.9	7.6 7.6 7.1 6.8 7.9 8.0 7.6 7.1 7.4 7.5 7.7 7.6 7.2 7.9 7.8 8.0 8.2 8.0 7.5	8.1 8.1 7.6 7.5 7.5 8.7 8.8 8.4 8.0 8.4 8.5 8.3 8.4 8.7 8.3 8.4 8.3 8.4 8.3	8.8 9.2 8.7 7.6 8.3 8.7 8.6 8.7 8.7 8.9 9.1 7.6 7.8 8.5 8.3 8.7 7.5 9.2 9.5 9.8 10.2 9.8 10.0 10.2 10.6 9.4 9.3	7.1 7.2 6.9 7.2 7.4 7.6 6.4 6.5 6.9 7.1 6.5 6.2 7.5 7.7 7.8 7.6 7.3 7.4 7.1 7.0 7.2 7.1	7.8 8.0 7.4 7.7 7.8 8.0 7.5 7.5 7.5 7.6 7.3 7.7 7.3 8.3 8.7 7.3 8.4 8.4 8.4 8.4 8.5 8.5 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	9.1 8.6 8.9 8.2 9.2 10.1 10.7 11.0 10.8 10.5 10.3 8.9 9.3 8.2 9.1 10.4 9.2 8.8 9.7 9.1 9.6 9.6	6.9 6.8 6.7 7.0 7.9 8.5 8.0 7.7 7.4 7.4 7.7 7.9 8.6 9.8 8.3 8.4 8.3 9.5 8.3 9.5 9.5	7.86 7.66 7.39 8.83 9.44 9.0 8.75 9.20 8.55 8.88 8.88 8.88 8.88 9.69
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	10.3 10.1 11.0 11.1 8.9 9.8 9.3 8.6 7.0 7.5 7.8 8.3 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.9 7.6 7.6 7.9 7.6 7.9 7.9	3.4 7.6 7.1 7.3 7.5 7.8 8.1 7.7 7.3 6.7 6.2 5.7 6.2 7.4 7.1 6.5 7.5 7.4 7.5 7.5 7.6 7.5 7.6 7.5 7.6	9.2 8.7 9.0 9.3 8.3 8.8 7.5 7.6 4.9 7.5 7.7 7.5 7.5 7.5 7.5 7.5 7.5	8.7 8.7 8.2 8.4 9.7 9.9 9.5 9.4 9.7 9.9 8.8 8.7 9.1 9.3 9.1 9.5 8.6 9.6 8.6 9.0 9.1	7.6 7.6 7.1 6.8 7.9 8.0 7.6 7.1 7.4 7.5 7.7 7.6 7.7 7.6 7.7 7.6 7.1 7.8 8.0 8.2 8.0 7.5	8.1 8.1 7.6 7.5 8.8 8.4 8.0 8.4 8.0 8.2 8.3 8.4 8.5 8.3 8.4 8.7 8.3 8.4 8.2 8.3	8.8 9.2 7.6 8.3 8.7 8.6 8.7 8.7 8.9 9.1 7.6 7.8 8.7 7.5 9.5 9.8 10.2 9.8 10.2 10.0 10.2 10.6 9.4 9.8	7.1 7.2 6.9 7.2 7.4 7.6 6.4 6.5 6.9 7.1 6.5 6.9 7.1 6.5 7.0 7.2 7.8 7.6 7.1 7.1 7.1	7.8 8.0 7.4 7.7 7.8 8.0 7.7 7.5 7.4 7.5 7.6 7.3 7.7 7.3 7.3 8.3 8.4 8.4 8.4 8.4 8.4 8.5 8.1 8.2	9.1 8.6 8.9 8.2 9.2 10.1 10.7 11.0 10.8 10.5 10.3 8.9 9.3 8.2 9.1 10.0 10.4 9.2 8.8 9.2 9.7 9.6 9.6	5. SEPTEMBE 6.9 6.87 6.77 7.0 7.9 8.57 8.57 7.54 7.7 7.9 8.69 8.4 8.3 8.64 8.3 9.15 9.35 9.8	7.86 7.66 7.37 7.9 8.83 9.64 9.0 8.75 7.92 8.5 9.29 8.5 9.58 8.8 8.8 8.8 8.8 8.8 9.69 10.2

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

CROSS-SECTION ANALYSES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE TI	OXYGEN, DIS- SOLVED (MG/L) (00300)	UNITS)	SPE- CIFIC CON- DUCT- ANCE (µS/CM) (00095)		SAMPLE LOC- ATION, CROSS SECTION (FT FM R BK) (72103)	SAM- PLING DEPTH (FEET)
AUG						
	14 7.9	7.5	169	22.6	109	. 5
	16 7.9	7.5	169	22.6	104	. 5
	17 8.0	7.4	169	22.6	99	. 5
	19 8.0	7.4	169	22.6	94	. 5
	24 8.0	7.4	169	22.6	89	. 5
	26 8.0	7.4	170	22.6	84	. 5
	28 8.0 30 8.0	7.4 7.4	172 171	22.6 22.6	79 74	.5 .5
	30 8.0	7.4	171	22.6	69	.5
	33 8.0	7.3	171	22.6	64	.5
	35 8.0	7.3	171	22.6	59	.5
	37 7.8	7.3	171	22.6	54	.5
	40 7.7	7.4	171	22.6	44	.5
	43 7.9	7.3	172	22.6	39	.5
	44 7.9	7.4	171	22.6	34	.5
	45 7.9	7.4	172	22.6	29	.5
	47 7.9	7.4	172	22.6	24	.5
	48 7.9	7.4	173	22.6	19	. 5
	50 7.8	7.4	173	22.6	14	. 5
	51 7.9	7.3	173	22.6	9	. 5
	52 7.7	7.5	173	22.6	4	.5