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# **King County Watershed Modeling Services – Green River Water Quality Assessment, and Sammamish- Washington, Analysis and Modeling Program Watershed Modeling Calibration Report**

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In Progress



**King County**

Department of Natural Resources and Parks  
Water and Land Resources Division

**Science Section**

King Street Center, KSC-NR-0600  
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Seattle, WA 98104  
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[dnr.metrokc.gov/wlr](http://dnr.metrokc.gov/wlr)

# Section 8—Appendix A

July 2003

## Prepared for:



**King County**

Department of Natural Resources and Parks  
**Water and Land Resources Division**

201 S. Jackson St, Suite 600  
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## Prepared by:

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In conjunction with King County

Alternative formats available

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206-263-6317 TTY Relay: 711

Appendix A: Newaukum Creek UCI File

RUN

GLOBAL

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SWAMP DRAINAGES CURRENT CONDITIONS: NEWAUKUM CREEKS
*** PROJECT 20126; TANG; 07/29/2003
*** AQUA TERRA CONSULTANTS
*** TWO RAIN GAGES (40U & 44U) ARE USED
*** INITIAL PWTER PARAMETER VALUES ARE BASED ON
*** REGIONAL AND LITTLE BEAR DATA
***
*** SUBSEQUENT PARAMETER CALIBRATIONS
*** CALIBRAING LZETP
*** USE MONTHLY LZETP (FILE MLYLZET2)
*** CALIBRATING INTFW
*** USE REGIONAL VALUES (INTFW = 3.0 TO 8.0);INCL. BEDROCK
*** CALIBRATING INFILT
*** MODIFIED LITTLE BEAR VALUES (OUTWASH TO 0.80)
*** CALIBRATING LZSN
*** MODIFIED LITTLE BEAR VALUES (4.0 TO 7.0 RANGE)
*** REVISED AND EXTENDED FTABLES FOR RCHRES 31,91-92,121,131,141,172,182, AND 231
*** CALIBRATING INTFW
*** USE REGIONAL VALUES
*** MODIFY THE REGIONAL INFEXP VALUE TO 5.0 (INCL. BEDROCK GROUP)
*** DEEPFR = 0.05
***
FOR THE PERIOD OF WY1999 - WY2002
START 1991/08/01 END 2003/07/31
RUN INTERP OUTPUT LEVEL 4
RESUME 0 RUN 1 UNIT SYSTEM 1
END GLOBAL
    
```

FILES

```

<File> <Un#> <-----File Name----->***
<-ID->
WDM1 27 C:\Project\Puget\KModel\BASINS\MetData.WDM
WDM2 28 C:\Project\Puget\KModel\BASINS\Newauk\OutputWQ.WDM
MESSU 25 C:\Project\Puget\KModel\BASINS\Newauk\Newauk.ECH
61 C:\Project\Puget\KModel\BASINS\Newauk\Newauk.L61
62 C:\Project\Puget\KModel\BASINS\Newauk\Newauk.L62
63 C:\Project\Puget\KModel\BASINS\Newauk\Newauk.L63
BINO 91 C:\Project\Puget\KModel\BASINS\Newauk\Newauk.HBN
END FILES
    
```

OPN SEQUENCE

```

INGRP INDELT 00:15
*** AT ZONE A, ELEVATIONS WHERE ANNUAL PRECIP IS BELOW 50 IN.
***
*** TILL FOREST
PERLND 11
PERLND 12
PERLND 13
PERLND 14
*** TILL PASTURE/AG
PERLND 21
PERLND 22
PERLND *** 23
PERLND *** 24
*** TILL FOREST RESIDENTIAL
PERLND 31
PERLND 32
PERLND *** 33
PERLND *** 34
*** TILL LOW DENSITY RESIDENTIAL
PERLND 41
PERLND 42
PERLND *** 43
PERLND *** 44
*** TILL HIGH DENSITY RESIDENTIAL
PERLND 51
PERLND *** 52
PERLND *** 53
PERLND *** 54
*** TILL COMMERCIAL/INDUSTRIAL
PERLND *** 61
PERLND *** 62
    
```

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PERLND *** 63
PERLND *** 64
*** OUTWASH
PERLND 71
PERLND 72
PERLND 73
PERLND 74
PERLND *** 75
PERLND *** 76
*** SATURATED
PERLND 81
PERLND *** 82
PERLND *** 83
PERLND 84
PERLND *** 85
PERLND *** 86
*** AT ZONE B, ELEVATIONS WHERE ANNUAL PRECIP IS ABOVE 50 IN.
***
*** TILL FOREST
PERLND 211
PERLND 212
PERLND 213
PERLND 214
*** TILL PASTURE/AG
PERLND 221
PERLND *** 222
PERLND *** 223
PERLND *** 224
*** TILL FOREST RESIDENTIAL
PERLND 231
PERLND *** 232
PERLND *** 233
PERLND *** 234
*** TILL LOW DENSITY RESIDENTIAL
PERLND 241
PERLND *** 242
PERLND *** 243
PERLND *** 244
*** TILL HIGH DENSITY RESIDENTIAL
PERLND 251
PERLND *** 252
PERLND *** 253
PERLND *** 254
*** TILL COMMERCIAL/INDUSTRIAL
PERLND *** 261
PERLND *** 262
PERLND *** 263
PERLND *** 264
*** OUTWASH
PERLND 271
PERLND 272
PERLND 273
PERLND 274
PERLND *** 275
PERLND *** 276
*** SATURATED
PERLND 281
PERLND *** 282
PERLND *** 283
PERLND 284
PERLND *** 285
PERLND *** 286
*** ROCK FOREST
PERLND *** 311
PERLND *** 312
PERLND 313
PERLND 314
*** ROCK PASTURE/AG
PERLND *** 321
PERLND *** 322
PERLND *** 323
PERLND *** 324
*** ROCK FOREST RESIDENTIAL
PERLND 331
PERLND *** 332
PERLND *** 333

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PERLND *** 334
*** ROCK LOW DENSITY RESIDENTIAL
PERLND *** 341
PERLND *** 342
PERLND *** 343
PERLND 344
*** ROCK HIGH DENSITY RESIDENTIAL
PERLND *** 351
PERLND *** 352
PERLND *** 353
PERLND *** 354
*** ROCK COMMERCIAL/INDUSTRIAL
PERLND *** 361
PERLND *** 362
PERLND *** 363
PERLND *** 364
*** EFFECTIVE IMPERVIOUS AREA
IMPLND 91
IMPLND 92
IMPLND 93
IMPLND 94
IMPLND 291
IMPLND 292
IMPLND 293
IMPLND 294

*** NEWAUKUM CREEK
*** RCHRES FOR STREAM CHANNELS
RCHRES 11
RCHRES 21
COPY 22
RCHRES 31
RCHRES 41
RCHRES 51
RCHRES 61
RCHRES 52
RCHRES 71
RCHRES 81
RCHRES 91
RCHRES 92
RCHRES 101
RCHRES 111
RCHRES 121
RCHRES 131
RCHRES 141
RCHRES 151
RCHRES 161
RCHRES 171
RCHRES 172
RCHRES 181
RCHRES 182
RCHRES 191
RCHRES 201
RCHRES 211
RCHRES 221
RCHRES 231
RCHRES 241
RCHRES 251
RCHRES 261
RCHRES 271
RCHRES 281
RCHRES 291
*** COPY for ExpSysStats
COPY 1
*** GENERs for calcing total suspended concs
GENER 11
GENER 92
GENER 121
GENER 141
GENER 151
GENER 221
GENER 241

GENER 281
GENER 511
GENER 592

```

GENER 621  
 GENER 641  
 GENER 651  
 GENER 721  
 GENER 741  
 GENER 781  
 END INGRP  
 END OPN SEQUENCE

\*\*\*

COPY  
 TIMESERIES  
 # - # NPT NMN \*\*\*  
 1 1 0 7  
 22 1  
 END TIMESERIES  
 END COPY

PERLND  
 GEN-INFO  
 <PLS ><-----Name----->NBLKS Unit-systems Printer BinaryOut \*\*\*  
 # - # User t-series Engr Metr Engr Metr \*\*\*  
 in out \*\*\*

\*\*\* AT ZONE A, ELEVATIONS WHERE ANNUAL PRECIP IS LESS THAN 50 IN.

Line #	Description	1	2	3	4	5	6	7	8	9	10
11	TILL, FOREST, FLAT	1	1	1	1	61	0	91	0		
12	TILL, FOREST, LOW	1	1	1	1	61	0	91	0		
13	TILL, FOREST, MED	1	1	1	1	61	0	91	0		
14	TILL, FOREST, STEEP	1	1	1	1	61	0	91	0		
21	TILL, PAST/AG, FLAT	1	1	1	1	61	0	91	0		
22	TILL, PAST/AG, LOW	1	1	1	1	61	0	91	0		
23***	TILL, PAST/AG, MED	1	1	1	1	61	0	91	0		
24***	TILL, PAST/AG STEEP	1	1	1	1	61	0	91	0		
31	TILL, FOR RES, FLAT	1	1	1	1	61	0	91	0		
32	TILL, FOR RES, LOW	1	1	1	1	61	0	91	0		
33***	TILL, FOR RES, MED	1	1	1	1	61	0	91	0		
34***	TILL, FOR RES STEEP	1	1	1	1	61	0	91	0		
41	TILL, LD RES, FLAT	1	1	1	1	61	0	91	0		
42	TILL, LD RES, LOW	1	1	1	1	61	0	91	0		
43***	TILL, LD RES, MED	1	1	1	1	61	0	91	0		
44***	TILL, LD RES, STEEP	1	1	1	1	61	0	91	0		
51	TILL, HD RES, FLAT	1	1	1	1	61	0	91	0		
52***	TILL, HD RES, LOW	1	1	1	1	61	0	91	0		
53***	TILL, HD RES, MED	1	1	1	1	61	0	91	0		
54***	TILL, HD RES, STEEP	1	1	1	1	61	0	91	0		
61***	TILL, COMM/IND FLAT	1	1	1	1	61	0	91	0		
62***	TILL, COMM/IND LOW	1	1	1	1	61	0	91	0		
63***	TILL, COMM/IND MED	1	1	1	1	61	0	91	0		
64***	TILL, COMM/IND STEEP	1	1	1	1	61	0	91	0		
71	OUTWASH, FOREST	1	1	1	1	61	0	91	0		
72	OUTWASH, PASTURE	1	1	1	1	61	0	91	0		
73	OUTWASH, FOR RES	1	1	1	1	61	0	91	0		
74	OUTWASH, LD RES	1	1	1	1	61	0	91	0		
75***	OUTWASH, HD RES	1	1	1	1	61	0	91	0		
76***	OUTWASH, COMM/IND	1	1	1	1	61	0	91	0		
81	SATURATED, FOREST	1	1	1	1	61	0	91	0		
82***	SATURATED, PAST/AG	1	1	1	1	61	0	91	0		
83***	SATURATED, FOR RES	1	1	1	1	61	0	91	0		
84	SATURATED, LD RES	1	1	1	1	61	0	91	0		
85***	SATURATED, HD RES	1	1	1	1	61	0	91	0		
86***	SATURATED, COMM/IND	1	1	1	1	61	0	91	0		

\*\*\* AT ZONE B, ELEVATIONS WHERE ANNUAL PRECIP IS ABOVE 50 IN.

Line #	Description	1	2	3	4	5	6	7	8	9	10
211	TILL, FOREST, FLAT	1	1	1	1	61	0	91	0		
212	TILL, FOREST, LOW	1	1	1	1	61	0	91	0		
213	TILL, FOREST, MED	1	1	1	1	61	0	91	0		
214	TILL, FOREST, STEEP	1	1	1	1	61	0	91	0		
221	TILL, PAST/AG, FLAT	1	1	1	1	61	0	91	0		
222***	TILL, PAST/AG, LOW	1	1	1	1	61	0	91	0		
223***	TILL, PAST/AG, MED	1	1	1	1	61	0	91	0		

Newaukum Creek UCI File

224***	TILL, PAST/AG STEEP	1	1	1	1	61	0	91	0
231	TILL, FOR RES, FLAT	1	1	1	1	61	0	91	0
232***	TILL, FOR RES, LOW	1	1	1	1	61	0	91	0
233***	TILL, FOR RES, MED	1	1	1	1	61	0	91	0
234***	TILL, FOR RES STEEP	1	1	1	1	61	0	91	0
241	TILL, LD RES, FLAT	1	1	1	1	61	0	91	0
242***	TILL, LD RES, LOW	1	1	1	1	61	0	91	0
243***	TILL, LD RES, MED	1	1	1	1	61	0	91	0
244***	TILL, LD RES, STEEP	1	1	1	1	61	0	91	0
251	TILL, HD RES, FLAT	1	1	1	1	61	0	91	0
252***	TILL, HD RES, LOW	1	1	1	1	61	0	91	0
253***	TILL, HD RES, MED	1	1	1	1	61	0	91	0
254***	TILL, HD RES, STEEP	1	1	1	1	61	0	91	0
261***	TILL, COMM/IND FLAT	1	1	1	1	61	0	91	0
262***	TILL, COMM/IND LOW	1	1	1	1	61	0	91	0
263***	TILL, COMM/IND MED	1	1	1	1	61	0	91	0
264***	TILL, COMM/IND STEEP	1	1	1	1	61	0	91	0
271	OUTWASH, FOREST	1	1	1	1	61	0	91	0
272	OUTWASH, PASTURE	1	1	1	1	61	0	91	0
273	OUTWASH, FOR RES	1	1	1	1	61	0	91	0
274	OUTWASH, LD RES	1	1	1	1	61	0	91	0
275***	OUTWASH, HD RES	1	1	1	1	61	0	91	0
276***	OUTWASH, COMM/IND	1	1	1	1	61	0	91	0
281	SATURATED, FOREST	1	1	1	1	61	0	91	0
282***	SATURATED, PAST/AG	1	1	1	1	61	0	91	0
283***	SATURATED, FOR RES	1	1	1	1	61	0	91	0
284	SATURATED, LD RES	1	1	1	1	61	0	91	0
285***	SATURATED, HD RES	1	1	1	1	61	0	91	0
286***	SATURATED, COMM/IND	1	1	1	1	61	0	91	0
311***	ROCK, FOREST, FLAT	1	1	1	1	61	0	91	0
312***	ROCK, FOREST, LOW	1	1	1	1	61	0	91	0
313	ROCK, FOREST, MED	1	1	1	1	61	0	91	0
314	ROCK, FOREST, STEEP	1	1	1	1	61	0	91	0
321***	ROCK, PAST/AG, FLAT	1	1	1	1	61	0	91	0
322***	ROCK, PAST/AG, LOW	1	1	1	1	61	0	91	0
323***	ROCK, PAST/AG, MED	1	1	1	1	61	0	91	0
324***	ROCK, PAST/AG STEEP	1	1	1	1	61	0	91	0
331	ROCK, FOR RES, FLAT	1	1	1	1	61	0	91	0
332***	ROCK, FOR RES, LOW	1	1	1	1	61	0	91	0
333***	ROCK, FOR RES, MED	1	1	1	1	61	0	91	0
334***	ROCK, FOR RES STEEP	1	1	1	1	61	0	91	0
341***	ROCK, LD RES, FLAT	1	1	1	1	61	0	91	0
342***	ROCK, LD RES, LOW	1	1	1	1	61	0	91	0
343***	ROCK, LD RES, MED	1	1	1	1	61	0	91	0
344	ROCK, LD RES, STEEP	1	1	1	1	61	0	91	0
351***	ROCK, HD RES, FLAT	1	1	1	1	61	0	91	0
352***	ROCK, HD RES, LOW	1	1	1	1	61	0	91	0
353***	ROCK, HD RES, MED	1	1	1	1	61	0	91	0
354***	ROCK, HD RES, STEEP	1	1	1	1	61	0	91	0
361***	ROCK, COMM/IND FLAT	1	1	1	1	61	0	91	0
362***	ROCK, COMM/IND LOW	1	1	1	1	61	0	91	0
363***	ROCK, COMM/IND MED	1	1	1	1	61	0	91	0
364***	ROCK, COMM/IND STEEP	1	1	1	1	61	0	91	0

END GEN-INFO

ACTIVITY

<PLS > \*\*\*\*\* Active Sections \*\*\*\*\*  
 # - # ATMP SNOW PWAT SED PST PWG PQAL MSTL PEST NITR PHOS TRAC \*\*\*  
 11 364 1 0 1 1 1 1 1 0 0 0 0 0

END ACTIVITY

PRINT-INFO

<PLS > \*\*\*\*\* Print-flags \*\*\*\*\* PIVL PYR



Newaukum Creek UCI File

```

# - # ATMP SNOW PWAT SED PST PWG PQAL MSTL PEST NITR PHOS TRAC ***
11 364 5 5 5 5 5 5
END PRINT-INFO

```

```

BINARY-INFO
<PLS > ***** Print-flags ***** PIVL PYR
# - # ATMP SNOW PWAT SED PST PWG PQAL MSTL PEST NITR PHOS TRAC ***
11 364 5 5 5 5 5
END BINARY-INFO

```

\*\*\* Section ATEMP - Air Temperature \*\*\*

\*\*\* following elevation differences based on station 44u (=820 ft)

```

ATEMP-DAT
<PLS > ELDAT AIRTEMP ***
# - # (ft) (deg F) ***
11 -194.0 50.0
12 -240.0 50.0
13 -294.0 50.0
14 -371.0 50.0
21 -175.0 50.0
22 -186.0 50.0
23 -197.0 50.0
24 -269.0 50.0
31 -180.0 50.0
32 -210.0 50.0
33 -258.0 50.0
34 -346.0 50.0
41 -167.0 50.0
42 -180.0 50.0
43 -223.0 50.0
44 -321.0 50.0
51 -95.0 50.0
52 -139.0 50.0
53 -192.0 50.0
54 -292.0 50.0
61 -148.0 50.0
62 -195.0 50.0
63 -221.0 50.0
64 -364.0 50.0
71 -201.0 50.0
72 -152.0 50.0
73 -180.0 50.0
74 -159.0 50.0
75 -155.0 50.0
76 -182.0 50.0
81 -163.0 50.0
82 -172.0 50.0
83 -171.0 50.0
84 -179.0 50.0
85 -145.0 50.0
86 -178.0 50.0
211 -43.0 50.0
212 301.0 50.0
213 544.0 50.0
214 723.0 50.0
221 -90.0 50.0
222 102.0 50.0
223 446.0 50.0
224 717.0 50.0
231 -68.0 50.0
232 131.0 50.0
233 419.0 50.0
234 657.0 50.0
241 -92.0 50.0
242 -40.0 50.0
243 293.0 50.0
244 592.0 50.0
251 -78.0 50.0
252 -55.0 50.0
253 -87.0 50.0
254 24.0 50.0
261 -85.0 50.0
262 -106.0 50.0
263 -81.0 50.0
264 20.0 50.0

```

```

271      69.0      50.0
272      12.0      50.0
273      23.0      50.0
274     -23.0      50.0
275     -33.0      50.0
276     -40.0      50.0
281     -77.0      50.0
282     -94.0      50.0
283     -90.0      50.0
284    -103.0      50.0
285    -119.0      50.0
286    -117.0      50.0
311     401.0      50.0
312     394.0      50.0
313     426.0      50.0
314     924.0      50.0
321     225.0      50.0
322     360.0      50.0
323     540.0      50.0
324    1091.0      50.0
331     242.0      50.0
332     323.0      50.0
333     401.0      50.0
334     823.0      50.0
341      84.0      50.0
342     251.0      50.0
343     377.0      50.0
344     722.0      50.0
351      -9.0      50.0
352      58.0      50.0
353     109.0      50.0
354     291.0      50.0
361      77.0      50.0
362      17.0      50.0
363     353.0      50.0
364    1366.0      50.0
END ATEMP-DAT

```

\*\*\* Section PWATER \*\*\*

PWAT-PARM1

```

<PLS > PWATER variable monthly parameter value flags ***
# - # CSNO RTOP UZFG VCS VUZ VNN VIFW VIRC VLE ***
11 364 0 0 0 1 0 0 0 0 1
END PWAT-PARM1

```

PWAT-PARM2

```

*** PARAMETERS OF LBEAR55.UCI ARE USED
*** AT ZONE A, ELEVATIONS WHERE ANNUAL PRECIP IS LESS THAN 50 IN.
*** < PLS>  FOREST      LZSN      INFILT      LSUR      SLSUR      KVARY      AGWRC
*** x - x      (in)      (in/hr)      (ft)      (1/in)      (1/day)
***TILL FOREST
11      0.      6.3      0.176      350.      0.028      0.405      0.997
12      0.      5.4      0.165      300.      0.072      0.405      0.997
13      0.      4.5      0.154      250.      0.116      0.405      0.997
14      0.      3.6      0.143      200.      0.195      0.405      0.997
***TILL PASTURE/AG
21      0.      4.5      0.11      350.      0.026      0.405      0.996
22      0.      4.5      0.099      300.      0.07      0.405      0.996
23 ***      5.0      0.080      250.      0.116      0.45      0.997
24 ***      5.0      0.070      200.      0.186      0.45      0.997
***TILL FOREST RESIDENTIAL
31      0.      6.3      0.176      350.      0.028      0.405      0.997
32      0.      5.4      0.154      300.      0.072      0.405      0.997
33 ***      6.0      0.120      250.      0.116      0.45      0.998
34 ***      6.0      0.100      200.      0.195      0.45      0.998
***TILL LOW DENSITY RES
41      0.      4.5      0.11      350.      0.028      0.405      0.995
42      0.      4.5      0.099      300.      0.07      0.405      0.995
43 ***      5.0      0.080      250.      0.117      0.45      0.996
44 ***      5.0      0.070      200.      0.180      0.45      0.996
***TILL HIGH DENSITY RES
51      0.      3.6      0.088      350.      0.028      0.405      0.995
53 ***      4.0      0.060      250.      0.117      0.45      0.996
54 ***      4.0      0.050      200.      0.169      0.45      0.996
***TILL COMMERCIAL/INDUSTRIAL

```

Newaukum Creek UCI File

61 ***		4.0	0.080	350.	0.030	0.45	0.996
62 ***		4.0	0.070	300.	0.071	0.45	0.996
63 ***		4.0	0.060	250.	0.114	0.45	0.996
64 ***		4.0	0.050	200.	0.172	0.45	0.996
***OUTWASH							
71	0.	8	0.242	300.	0.089	0.27	0.995
72	0.	8	0.1155	300.	0.06	0.27	0.995
73	0.	8	0.242	300.	0.089	0.27	0.995
74	0.	8	0.165	300.	0.077	0.27	0.995
75 ***		10.0	1.200	300.	0.067	0.3	0.996
76 ***		10.0	1.200	300.	0.067	0.3	0.996
***SATURATED							
81	0.	3.6	2.2	150.	0.048	0.45	0.997
82 ***		4.0	1.500	150.	0.043	0.5	0.998
83 ***		4.0	2.200	150.	0.048	0.5	0.998
84	0.	3.6	1.5	150.	0.043	0.45	0.997
85 ***		4.0	1.200	150.	0.046	0.5	0.998
86 ***		4.0	1.200	150.	0.075	0.5	0.998
***AT ZONE B, ELEVATIONS WHERE ANNUAL PRECIP IS ABOVE 50 IN.							
***TILL FOREST							
211	0.	6.3	0.176	350.	0.028	0.405	0.997
212	0.	5.4	0.165	300.	0.072	0.405	0.997
213	0.	4.5	0.154	250.	0.116	0.405	0.997
214	0.	3.6	0.143	200.	0.195	0.405	0.997
***TILL PASTURE/AG							
221	0.	4.5	0.11	350.	0.026	0.405	0.996
222 ***		5.0	0.090	300.	0.070	0.45	0.997
223 ***		5.0	0.080	250.	0.116	0.45	0.997
224 ***		5.0	0.070	200.	0.186	0.45	0.997
***TILL FOREST RESIDENTIAL							
231	0.	6.3	0.176	350.	0.028	0.405	0.997
232 ***		6.0	0.140	300.	0.072	0.45	0.998
233 ***		6.0	0.120	250.	0.116	0.45	0.998
234 ***		6.0	0.100	200.	0.195	0.45	0.998
***TILL LOW DENSITY RES							
241	0.	4.5	0.11	350.	0.028	0.405	0.995
242 ***		5.0	0.090	300.	0.070	0.45	0.996
243 ***		5.0	0.080	250.	0.117	0.45	0.996
244 ***		5.0	0.070	200.	0.180	0.45	0.996
***TILL HIGH DENSITY RES							
251	0.	3.6	0.088	350.	0.028	0.405	0.995
252 ***		4.0	0.070	300.	0.071	0.45	0.996
253 ***		4.0	0.060	250.	0.117	0.45	0.996
254 ***		4.0	0.050	200.	0.169	0.45	0.996
***TILL COMMERCIAL/INDUSTRIAL							
261 ***		4.0	0.080	350.	0.030	0.45	0.996
262 ***		4.0	0.070	300.	0.071	0.45	0.996
263 ***		4.0	0.060	250.	0.114	0.45	0.996
264 ***		4.0	0.050	200.	0.172	0.45	0.996
***OUTWASH							
271	0.	8	0.242	300.	0.089	0.27	0.996
272	0.	8	0.1155	300.	0.06	0.27	0.996
273	0.	8	0.242	300.	0.089	0.27	0.996
274	0.	8	0.165	300.	0.077	0.27	0.996
275 ***		10.0	1.200	300.	0.067	0.3	0.997
276 ***		10.0	1.200	300.	0.067	0.3	0.997
***SATURATED							
281	0.	3.6	2.2	150.	0.048	0.45	0.997
282 ***		4.0	1.500	150.	0.043	0.5	0.998
283 ***		4.0	2.200	150.	0.048	0.5	0.998
284	0.	3.6	1.5	150.	0.043	0.45	0.997
285 ***		4.0	1.200	150.	0.046	0.5	0.998
286 ***		4.0	1.200	150.	0.075	0.5	0.998
***ROCK FOREST							
311 ***		4.0000	0.1000	400.	0.0100	0.5000	0.992
312 ***		4.0000	0.0800	400.	0.0500	0.5000	0.992
313	0.	3.6	0.12	400.	0.1	0.45	0.991
314	0.	3.6	0.08	400.	0.2	0.45	0.991
***ROCK PASTURE/AG							
321 ***		4.0000	0.1000	400.	0.0100	0.5000	0.992
322 ***		4.0000	0.0800	400.	0.0500	0.5000	0.992
323 ***		4.0000	0.0600	400.	0.1000	0.5000	0.992
324 ***		4.0000	0.0400	400.	0.2000	0.5000	0.992
***ROCK FOREST RES							
331	0.	3.6	0.2	400.	0.01	0.45	0.991

Newaukum Creek UCI File

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332 ***          4.0000    0.0800    400.    0.0500    0.5000    0.992
333 ***          4.0000    0.0600    400.    0.1000    0.5000    0.992
334 ***          4.0000    0.0400    400.    0.2000    0.5000    0.992
***ROCK LOW DENSITY RES
341 ***          4.0000    0.0600    400.    0.0100    0.5000    0.992
342 ***          4.0000    0.0500    400.    0.0200    0.5000    0.992
343 ***          4.0000    0.0400    400.    0.1000    0.5000    0.992
344          0.          3.6          0.06    400.          0.2          0.45    0.991
END PWAT-PARM2

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PWAT-PARM3

<PLS > \*\*\* PWATER input info: Part 3

#	-	#	***PETMAX	PETMIN	INFEXP	INFILD	DEEPPFR	BASETP	AGWETP
11	14				3.0	2.0	0.02	0.010	0.00
21	24				3.0	2.0	0.02	0.010	0.00
31	34				3.0	2.0	0.02	0.010	0.00
41	44				3.0	2.0	0.02	0.010	0.00
51	54				3.0	2.0	0.02	0.010	0.00
61	64				3.0	2.0	0.02	0.010	0.00
71	76				2.0	2.0	0.02	0.020	0.00
81	86				9.0	2.0	0.00	0.0	0.70
211	214				3.0	2.0	0.02	0.010	0.00
221	224				3.0	2.0	0.02	0.010	0.00
231	234				3.0	2.0	0.02	0.010	0.00
241	244				3.0	2.0	0.02	0.010	0.00
251	254				3.0	2.0	0.02	0.010	0.00
261	264				3.0	2.0	0.02	0.010	0.00
271	276				2.0	2.0	0.02	0.010	0.00
281	286				9.0	2.0	0.00	0.0	0.70
311	314				3.0	2.0	0.00	0.0	0.00
321	324				3.0	2.0	0.00	0.0	0.00
331	334				3.0	2.0	0.00	0.0	0.00
341	344				3.0	2.0	0.00	0.0	0.00
351	354				3.0	2.0	0.00	0.0	0.00
361	364				3.0	2.0	0.00	0.0	0.00

END PWAT-PARM3

PWAT-PARM4

<PLS > PWATER input info: Part 4

#	-	#	CEPSC	UZSN	NSUR	INTFW	IRC	LZETP	***
11			0.	1.275	0.35	2.85	0.7	0.	***
12			0.	0.85	0.35	2.66	0.7	0.	***
13			0.	0.51	0.35	2.375	0.7	0.	***
14			0.	0.3825	0.35	1.995	0.7	0.	***
21			0.	0.765	0.3	2.4225	0.7	0.	***
22			0.	0.51	0.3	2.261	0.7	0.	***
31			0.	1.275	0.35	2.85	0.7	0.	***
32			0.	0.85	0.35	2.66	0.7	0.	***
41			0.	0.6375	0.25	2.565	0.5	0.	***
42			0.	0.3825	0.25	2.394	0.5	0.	***
51			0.	0.6375	0.25	2.4225	0.5	0.	***
71			0.	0.6375	0.35	0.5	0.7	0.	***
72			0.	0.6375	0.3	0.5	0.7	0.	***
73			0.	0.6375	0.35	0.5	0.7	0.	***
74			0.	0.6375	0.25	0.5	0.5	0.	***
81			0.	2.55	0.5	4.5	0.7	0.	***
84			0.	2.55	0.5	4.5	0.5	0.	***
211			0.	1.275	0.35	2.85	0.7	0.	***
212			0.	0.85	0.35	2.66	0.7	0.	***
213			0.	0.51	0.35	2.375	0.7	0.	***
214			0.	0.3825	0.35	1.995	0.7	0.	***
221			0.	0.765	0.3	2.4225	0.7	0.	***
231			0.	1.275	0.35	2.85	0.7	0.	***
241			0.	0.6375	0.25	2.565	0.5	0.	***
251			0.	0.6375	0.25	2.4225	0.5	0.	***
271			0.	0.6375	0.35	0.5	0.7	0.	***
272			0.	0.6375	0.3	0.5	0.7	0.	***
273			0.	0.6375	0.35	0.5	0.7	0.	***
274			0.	0.6375	0.25	0.5	0.5	0.	***
281			0.	2.55	0.5	4.5	0.7	0.	***

Newaukum Creek UCI File

284 0. 2.55 0.5 4.5 0.5 0.  
 313 0. 0.255 0.35 1.75 0.3 0.  
 314 0. 0.17 0.35 1.25 0.2 0.  
 331 0. 0.425 0.35 2.5 0.7 0.  
 344 0. 0.0425 0.25 1.25 0.2 0.

END PWAT-PARM4

MON-INTERCEP

#	#	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	***
11	14	.20	.20	.25	.30	.38	.45	.45	.45	.38	.30	.25	.20	
21	24	.15	.15	.20	.25	.30	.35	.35	.35	.30	.25	.20	.15	
31	34	.20	.20	.25	.30	.38	.45	.45	.45	.38	.30	.25	.20	
41	64	.10	.10	.12	.14	.17	.20	.20	.20	.18	.14	.12	.10	
71		.20	.20	.25	.30	.38	.45	.45	.45	.38	.30	.25	.20	
72		.15	.15	.20	.25	.30	.35	.35	.35	.30	.25	.20	.15	
73		.20	.20	.25	.30	.38	.45	.45	.45	.38	.30	.25	.20	
74	76	.10	.10	.12	.14	.17	.20	.20	.20	.18	.14	.12	.10	
81		.20	.20	.25	.30	.38	.45	.45	.45	.38	.30	.25	.20	
82		.15	.15	.20	.25	.30	.35	.35	.35	.30	.25	.20	.15	
83		.20	.20	.25	.30	.38	.45	.45	.45	.38	.30	.25	.20	
84	86	.10	.10	.12	.14	.17	.20	.20	.20	.18	.14	.12	.10	
211	214	.20	.20	.25	.30	.38	.45	.45	.45	.38	.30	.25	.20	
221	224	.15	.15	.20	.25	.30	.35	.35	.35	.30	.25	.20	.15	
231	234	.20	.20	.25	.30	.38	.45	.45	.45	.38	.30	.25	.20	
241	264	.10	.10	.12	.14	.17	.20	.20	.20	.18	.14	.12	.10	
271		.20	.20	.25	.30	.38	.45	.45	.45	.38	.30	.25	.20	
272		.15	.15	.20	.25	.30	.35	.35	.35	.30	.25	.20	.15	
273		.20	.20	.25	.30	.38	.45	.45	.45	.38	.30	.25	.20	
274	276	.10	.10	.12	.14	.17	.20	.20	.20	.18	.14	.12	.10	
281		.20	.20	.25	.30	.38	.45	.45	.45	.38	.30	.25	.20	
282		.15	.15	.20	.25	.30	.35	.35	.35	.30	.25	.20	.15	
283		.20	.20	.25	.30	.38	.45	.45	.45	.38	.30	.25	.20	
284	286	.10	.10	.12	.14	.17	.20	.20	.20	.18	.14	.12	.10	
311	314	.20	.20	.25	.30	.38	.45	.45	.45	.38	.30	.25	.20	
321	324	.15	.15	.20	.25	.30	.35	.35	.35	.30	.25	.20	.15	
331	334	.20	.20	.25	.30	.38	.45	.45	.45	.38	.30	.25	.20	
341	364	.10	.10	.12	.14	.17	.20	.20	.20	.18	.14	.12	.10	

END MON-INTERCEP

MON-LZETPARM

#	#	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	***
11	74	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	
81	84	0.5	0.5	0.5	0.6	0.7	0.75	0.8	0.8	0.75	0.7	0.6	0.5	
211	274	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	
281	284	0.5	0.5	0.5	0.6	0.7	0.75	0.8	0.8	0.75	0.7	0.6	0.5	
313	331	0.3	0.3	0.3	0.4	0.5	0.6	0.7	0.7	0.7	0.5	0.3	0.3	
344		0.15	0.15	0.2	0.2	0.25	0.25	0.25	0.25	0.25	0.2	0.2	0.15	

END MON-LZETPARM

PWAT-STATE1

<PLS > \*\*\* Initial conditions at start of simulation

#	-	#	***	CEPS	SURS	UZS	IFWS	LZS	AGWS	GWVS
11				0.00	0.0	0.400	0.0	4.0	5.50	0.20
12				0.00	0.0	0.100	0.0	2.5	5.50	0.15
13				0.00	0.0	0.015	0.0	1.5	5.50	0.10
14				0.00	0.0	0.008	0.0	1.0	5.50	0.08
21				0.00	0.0	0.040	0.0	1.6	3.00	0.12
22				0.00	0.0	0.015	0.0	1.4	3.00	0.11
23				0.00	0.0	0.010	0.0	1.2	3.00	0.10
24				0.00	0.0	0.005	0.0	1.0	3.00	0.09
31				0.00	0.0	0.400	0.0	4.0	5.50	0.20
32				0.00	0.0	0.120	0.0	2.5	5.50	0.15
33				0.00	0.0	0.080	0.0	1.5	5.50	0.10
34				0.00	0.0	0.050	0.0	1.0	5.50	0.05
41				0.00	0.0	0.020	0.0	1.4	3.00	0.13
42				0.00	0.0	0.010	0.0	1.2	3.00	0.11
43				0.00	0.0	0.080	0.0	1.0	3.00	0.09

Newaukum Creek UCI File

44		0.00	0.0	0.050	0.0	0.8	3.00	0.07
51		0.00	0.0	0.020	0.0	1.0	3.00	0.11
52		0.00	0.0	0.010	0.0	0.8	3.00	0.10
53		0.00	0.0	0.080	0.0	0.6	3.00	0.09
54		0.00	0.0	0.050	0.0	0.4	3.00	0.08
61		0.00	0.0	0.020	0.0	1.0	3.00	0.11
62		0.00	0.0	0.010	0.0	0.8	3.00	0.10
63		0.00	0.0	0.080	0.0	0.6	3.00	0.09
64		0.00	0.0	0.050	0.0	0.4	3.00	0.08
71		0.00	0.0	0.080	0.0	5.2	4.50	0.23
72		0.00	0.0	0.090	0.0	5.0	4.50	0.23
73		0.00	0.0	0.080	0.0	5.2	4.50	0.23
74	76	0.00	0.0	0.070	0.0	4.7	4.50	0.25
81		0.00	0.0	1.800	0.0	3.3	4.00	0.12
82		0.00	0.0	1.800	0.0	3.2	4.00	0.12
83		0.00	0.0	1.800	0.0	3.3	4.00	0.12
84	86	0.00	0.0	1.800	0.0	3.1	4.00	0.13
211		0.00	0.0	0.600	0.0	6.0	6.00	0.35
212		0.00	0.0	0.250	0.0	4.5	6.00	0.30
213		0.00	0.0	0.070	0.0	2.5	6.00	0.20
214		0.00	0.0	0.030	0.0	1.5	6.00	0.15
221		0.00	0.0	0.150	0.0	3.0	3.50	0.25
222		0.00	0.0	0.120	0.0	2.5	3.50	0.20
223		0.00	0.0	0.080	0.0	2.0	3.50	0.15
224		0.00	0.0	0.050	0.0	1.5	3.50	0.10
231		0.00	0.0	0.600	0.0	6.0	6.00	0.35
232		0.00	0.0	0.400	0.0	4.5	6.00	0.30
233		0.00	0.0	0.200	0.0	2.5	6.00	0.20
234		0.00	0.0	0.100	0.0	1.5	6.00	0.15
241		0.00	0.0	0.080	0.0	2.5	3.50	0.25
242		0.00	0.0	0.060	0.0	2.0	3.50	0.20
243		0.00	0.0	0.040	0.0	1.5	3.50	0.15
244		0.00	0.0	0.020	0.0	1.0	3.50	0.10
251		0.00	0.0	0.070	0.0	2.0	3.50	0.20
252		0.00	0.0	0.050	0.0	1.5	3.50	0.15
253		0.00	0.0	0.030	0.0	1.0	3.50	0.10
254		0.00	0.0	0.010	0.0	0.5	3.50	0.05
261		0.00	0.0	0.070	0.0	2.0	3.50	0.20
262		0.00	0.0	0.050	0.0	1.5	3.50	0.15
263		0.00	0.0	0.030	0.0	1.0	3.50	0.10
264		0.00	0.0	0.010	0.0	0.5	3.50	0.05
271		0.00	0.0	0.140	0.0	7.0	5.00	0.43
272		0.00	0.0	0.150	0.0	6.7	5.00	0.41
273		0.00	0.0	0.140	0.0	7.0	5.00	0.43
274	276	0.00	0.0	0.120	0.0	6.3	5.00	0.45
281		0.00	0.0	2.500	0.0	4.4	4.50	0.15
282		0.00	0.0	2.500	0.0	4.1	4.50	0.14
283		0.00	0.0	2.500	0.0	3.7	4.50	0.15
284	286	0.00	0.0	2.500	0.0	3.3	4.50	0.16
311		0.	0.	0.070	0.	1.6	2.00	0.15
312		0.	0.	0.050	0.	1.5	2.00	0.14
313		0.	0.	0.035	0.	1.4	2.00	0.13
314		0.	0.	0.030	0.	1.3	2.00	0.12
321		0.	0.	0.070	0.	1.0	2.00	0.15
322		0.	0.	0.050	0.	0.9	2.00	0.14
322		0.	0.	0.035	0.	0.8	2.00	0.13
323		0.	0.	0.030	0.	0.7	2.00	0.12
331		0.	0.	0.070	0.	1.6	2.00	0.15
332		0.	0.	0.050	0.	1.5	2.00	0.14
333		0.	0.	0.035	0.	1.4	2.00	0.13
334		0.	0.	0.030	0.	1.3	2.00	0.12

Newaukum Creek UCI File

341	0.	0.	0.070	0.	3.4	2.00	0.25
342	0.	0.	0.050	0.	3.2	2.00	0.20
343	0.	0.	0.035	0.	3.0	2.00	0.15
344	0.	0.	0.030	0.	2.8	2.00	0.10
351	0.	0.	0.070	0.	3.0	2.00	0.25
352	0.	0.	0.050	0.	2.8	2.00	0.20
353	0.	0.	0.035	0.	2.6	2.00	0.15
354	0.	0.	0.030	0.	2.4	2.00	0.10
361	0.	0.	0.070	0.	3.0	2.70	0.25
362	0.	0.	0.050	0.	2.8	2.80	0.20
363	0.	0.	0.035	0.	2.6	2.80	0.15
364	0.	0.	0.030	0.	2.4	2.90	0.10
990	0.	0.	0.050	0.	2.5	5.00	0.10

END PWAT-STATE1

\*\*\* Section PSTEMP - SOIL TEMPERATURE

PSTEMP-PARM1

#	#	SLTV	ULTV	LGTV	TSOP	***
11	364	1	1	1	1	

END PSTEMP-PARM1

PSTEMP-PARM2

#	#	ASLT	BSLT	ULTP1	ULTP2	LGTP1	LGTP2	***
11	364	60.0	0.25	60.0	0.20	60.0	0.20	

END PSTEMP-PARM2

MON-ASLT

#	#	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	***
11	86	36.0	36.0	37.5	40.0	44.5	48.0	51.0	51.0	49.5	46.0	41.5	38.0	
211	364	36.0	36.0	37.0	39.0	43.0	46.0	49.0	49.0	48.0	44.0	40.0	37.0	

END MON-ASLT

MON-BSLT

#	#	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	***
11	364	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	

END MON-BSLT

MON-ULTP1

#	#	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	***
11	86	37.0	37.0	38.0	40.0	44.0	47.0	48.0	48.0	47.0	45.0	43.0	38.0	
211	364	36.0	36.0	37.0	39.0	43.0	46.0	47.0	47.0	46.0	44.0	42.0	37.0	

END MON-ULTP1

MON-ULTP2

#	#	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	***
11	364	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	

END MON-ULTP2

MON-LGTP1

#	#	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	***
11	86	43.5	43.5	44.5	46.5	48.5	50.5	51.5	51.5	50.5	49.5	46.5	45.5	
211	364	42.0	42.0	43.0	45.0	47.0	49.0	50.0	50.0	49.0	48.0	45.0	44.0	

END MON-LGTP1

MON-LGTP2

#	#	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	***
11	364	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	

END MON-LGTP2

PSTEMP-TEMPS

#	#	AIRTC	SLTMP	ULTMP	LGTMP	***
11	364	60.0	55.0	55.0	51.0	

END PSTEMP-TEMPS

\*\*\* Section PWTGAS - Water Temperature and Dissolved Oxygen & CO2

PWT-PARM1

<PLS> Flags for PWTGAS \*\*\*

#	#	IDV	ICV	GDV	GCV	***
11	364	1	1	1	1	

END PWT-PARM1

Newaukum Creek UCI File

PWT-PARM2		ELEV	IDOXP	ICO2P	ADOXP	ACO2P	***
#	#						
***TILL FOREST							
11		626.	0.00	0.00	0.00	0.00	
12		580.	0.00	0.00	0.00	0.00	
13		526.	0.00	0.00	0.00	0.00	
14		449.	0.00	0.00	0.00	0.00	
***TILL PASTURE/							
21		645.	0.00	0.00	0.00	0.00	
22		634.	0.00	0.00	0.00	0.00	
23		623.	0.00	0.00	0.00	0.00	
24		551.	0.00	0.00	0.00	0.00	
***TILL FOREST RESIDENTIAL							
31		640.	0.00	0.00	0.00	0.00	
32		610.	0.00	0.00	0.00	0.00	
33		562.	0.00	0.00	0.00	0.00	
34		474.	0.00	0.00	0.00	0.00	
***TILL LOW DENSITY RES							
41		653.	0.00	0.00	0.00	0.00	
42		640.	0.00	0.00	0.00	0.00	
43		597.	0.00	0.00	0.00	0.00	
44		499.	0.00	0.00	0.00	0.00	
***TILL HIGH DENSITY RES							
51		725.	0.00	0.00	0.00	0.00	
52		681.	0.00	0.00	0.00	0.00	
53		628.	0.00	0.00	0.00	0.00	
54		528.	0.00	0.00	0.00	0.00	
***TILL COMMERCIAL INDUSTRIAL							
61		672.	0.00	0.00	0.00	0.00	
62		625.	0.00	0.00	0.00	0.00	
63		599.	0.00	0.00	0.00	0.00	
64		456.	0.00	0.00	0.00	0.00	
***OUTWASH							
71		619.	0.00	0.00	0.00	0.00	
72		668.	0.00	0.00	0.00	0.00	
73		640.	0.00	0.00	0.00	0.00	
74		661.	0.00	0.00	0.00	0.00	
75		665.	0.00	0.00	0.00	0.00	
76		638.	0.00	0.00	0.00	0.00	
***SATURATED							
81		657.	0.00	0.00	0.00	0.00	
82		648.	0.00	0.00	0.00	0.00	
83		649.	0.00	0.00	0.00	0.00	
84		641.	0.00	0.00	0.00	0.00	
85		675.	0.00	0.00	0.00	0.00	
86		642.	0.00	0.00	0.00	0.00	
***TILL FOREST UPPER WATERSHED							
211		777.	0.00	0.00	0.00	0.00	
212		1121.	0.00	0.00	0.00	0.00	
213		1364.	0.00	0.00	0.00	0.00	
214		1543.	0.00	0.00	0.00	0.00	
***TILL PASTURE							
221		730.	0.00	0.00	0.00	0.00	
222		922.	0.00	0.00	0.00	0.00	
223		1266.	0.00	0.00	0.00	0.00	
224		1537.	0.00	0.00	0.00	0.00	
***TILL FOREST RESIDENTIAL							
231		752.	0.00	0.00	0.00	0.00	
232		951.	0.00	0.00	0.00	0.00	
233		1239.	0.00	0.00	0.00	0.00	
234		1477.	0.00	0.00	0.00	0.00	
***TILL LOW DENSITY RESIDENTIAL							
241		728.	0.00	0.00	0.00	0.00	
242		780.	0.00	0.00	0.00	0.00	
243		1113.	0.00	0.00	0.00	0.00	
244		1412.	0.00	0.00	0.00	0.00	
***TILL HIGH DENSITY RESIDENTIAL							
251		742.	0.00	0.00	0.00	0.00	
252		765.	0.00	0.00	0.00	0.00	
253		733.	0.00	0.00	0.00	0.00	
254		844.	0.00	0.00	0.00	0.00	
***TILL COMMERCIAL INDUSTRIAL							
261		735.	0.00	0.00	0.00	0.00	
262		714.	0.00	0.00	0.00	0.00	
263		739.	0.00	0.00	0.00	0.00	



Newaukum Creek UCI File

```

264      840.      0.00      0.00      0.00      0.00
***OUTWASH
271      889.      0.00      0.00      0.00      0.00
272      832.      0.00      0.00      0.00      0.00
273      843.      0.00      0.00      0.00      0.00
274      797.      0.00      0.00      0.00      0.00
275      787.      0.00      0.00      0.00      0.00
276      780.      0.00      0.00      0.00      0.00
***SATURATED
281      743.      0.00      0.00      0.00      0.00
282      726.      0.00      0.00      0.00      0.00
283      730.      0.00      0.00      0.00      0.00
284      717.      0.00      0.00      0.00      0.00
285      701.      0.00      0.00      0.00      0.00
286      703.      0.00      0.00      0.00      0.00
***BEDROCK PERLND5
311      1221.     0.00      0.00      0.00      0.00
312      1214.     0.00      0.00      0.00      0.00
313      1246.     0.00      0.00      0.00      0.00
314      1744.     0.00      0.00      0.00      0.00
***BEDROCK PERLND5
321      1045.     0.00      0.00      0.00      0.00
322      1180.     0.00      0.00      0.00      0.00
323      1360.     0.00      0.00      0.00      0.00
324      1911.     0.00      0.00      0.00      0.00
***BEDROCK PERLND5
331      1062.     0.00      0.00      0.00      0.00
332      1143.     0.00      0.00      0.00      0.00
333      1221.     0.00      0.00      0.00      0.00
334      1643.     0.00      0.00      0.00      0.00
***BEDROCK PERLND5
341      904.      0.00      0.00      0.00      0.00
342      1071.     0.00      0.00      0.00      0.00
343      1197.     0.00      0.00      0.00      0.00
344      1542.     0.00      0.00      0.00      0.00
***BEDROCK PERLND5
351      811.      0.00      0.00      0.00      0.00
352      878.      0.00      0.00      0.00      0.00
353      929.      0.00      0.00      0.00      0.00
354      1111.     0.00      0.00      0.00      0.00
***BEDROCK PERLND5
361      897.      0.00      0.00      0.00      0.00
362      837.      0.00      0.00      0.00      0.00
363      1173.     0.00      0.00      0.00      0.00
364      2186.     0.00      0.00      0.00      0.00
END PWT-PARM2

```

```

MON-IFWDOX
# # JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC ***
11 364 14.5 14.5 13.5 12.5 11.0 9.5 8.5 8.5 9.5 10.5 12.0 13.5
END MON-IFWDOX

```

```

MON-GRNDDOX
# # JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC ***
11 364 12.5 12.5 11.0 10.0 10.0 9.5 9.0 9.0 9.5 10.0 10.5 11.5
END MON-GRNDDOX

```

```

MON-IFWCO2
# # JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC ***
11 86 0.15 0.15 0.16 0.18 0.23 0.29 0.35 0.35 0.35 0.35 0.20 0.16
211 364 0.10 0.10 0.12 0.15 0.21 0.26 0.31 0.31 0.31 0.31 0.18 0.11
END MON-IFWCO2

```

```

MON-GRNDCO2
# # JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC ***
11 86 0.34 0.34 0.34 0.34 0.38 0.43 0.49 0.49 0.49 0.49 0.49 0.46
211 364 0.34 0.34 0.34 0.34 0.38 0.43 0.45 0.45 0.45 0.45 0.45 0.44
END MON-GRNDCO2

```

```

PWT-GASES
*** <PLS> Initial Concentrations ***
# # SODOX SOCO2 IODOX IOCO2 AODOX AOCO2 ***
11 364 6.0 0.2 5.0 0.5 5.0 0.5
END PWT-GASES

```

\*\*\* Section SEDMNT - Sediment

```

SED-PARM1
*** <PLS > Sediment parameters 1
*** x - x CRV VSIV SDOP
    11 364 1 0 1
END SED-PARM1
    
```

```

SED-PARM2
*** <PLS > SMPF KRER JRER AFFIX COVER NVSI
*** x - x (/day) lb/ac-day

***TILL FOREST
    11 14 1.0 0.500 2.0 0.0045 0.0 10.0
***TILL PASTURE/AG
    21 24 1.0 0.500 2.0 0.0045 0.0 30.0
***TILL FOREST RESIDENTIAL
    31 34 1.0 0.500 2.0 0.0045 0.0 15.0
***TILL LOW DENSITY RES
    41 44 1.0 0.500 2.0 0.0045 0.0 40.0
***TILL HIGH DENSITY RES
    51 54 1.0 0.500 2.0 0.0045 0.0 50.0
***TILL COMMERCIAL/INDUSTRIAL
    61 64 1.0 0.500 2.0 0.0045 0.0 100.0
***OUTWASH
    71 1.0 0.600 2.0 0.0045 0.0 10.0
    72 1.0 0.600 2.0 0.0045 0.0 20.0
    73 1.0 0.600 2.0 0.0045 0.0 15.0
    74 1.0 0.600 2.0 0.0045 0.0 30.0
    75 1.0 0.600 2.0 0.0045 0.0 50.0
    76 1.0 0.600 2.0 0.0045 0.0 100.0
***SATURATED
    81 1.0 0.500 2.0 0.0045 0.0 10.0
    82 1.0 0.500 2.0 0.0045 0.0 20.0
    83 1.0 0.500 2.0 0.0045 0.0 15.0
    84 1.0 0.500 2.0 0.0045 0.0 30.0
    85 1.0 0.500 2.0 0.0045 0.0 50.0
    86 1.0 0.500 2.0 0.0045 0.0 100.0
***TILL FOREST
    211 214 1.0 0.500 2.0 0.0045 0.0 10.0
***TILL PASTURE/AG
    221 224 1.0 0.500 2.0 0.0045 0.0 30.0
***TILL FOREST RESIDENTIAL
    231 234 1.0 0.500 2.0 0.0045 0.0 15.0
***TILL LOW DENSITY RES
    241 244 1.0 0.500 2.0 0.0045 0.0 40.0
***TILL HIGH DENSITY RES
    251 254 1.0 0.500 2.0 0.0045 0.0 50.0
***TILL COMMERCIAL/INDUSTRIAL
    261 264 1.0 0.500 2.0 0.0045 0.0 100.0
***OUTWASH
    271 1.0 0.600 2.0 0.0045 0.0 10.0
    272 1.0 0.600 2.0 0.0045 0.0 20.0
    273 1.0 0.600 2.0 0.0045 0.0 15.0
    274 1.0 0.600 2.0 0.0045 0.0 30.0
    275 1.0 0.600 2.0 0.0045 0.0 50.0
    276 1.0 0.600 2.0 0.0045 0.0 100.0
***SATURATED
    281 1.0 0.500 2.0 0.0045 0.0 10.0
    282 1.0 0.500 2.0 0.0045 0.0 20.0
    283 1.0 0.500 2.0 0.0045 0.0 15.0
    284 1.0 0.500 2.0 0.0045 0.0 30.0
    285 1.0 0.500 2.0 0.0045 0.0 50.0
    286 1.0 0.500 2.0 0.0045 0.0 100.0
***BEDROCK PERLNDs
    311 314 1.0 0.200 2.0 0.0045 0.0 10.0
    321 324 1.0 0.200 2.0 0.0045 0.0 30.0
    331 334 1.0 0.200 2.0 0.0045 0.0 15.0
    341 344 1.0 0.200 2.0 0.0045 0.0 40.0
    351 354 1.0 0.200 2.0 0.0045 0.0 50.0
    361 364 1.0 0.200 2.0 0.0045 0.0 100.0
END SED-PARM2
    
```

```

SED-PARM3
*** <PLS > Sediment parameter 3
*** x - x KSER JSER KGER JGER
***TILL FOREST
    
```

```

11 14 0.20 2. 0. 2.
***TILL PASTURE/AG
21 24 0.20 2. 0. 2.
***TILL FOREST RESIDENTIAL
31 34 0.40 2. 0. 2.
***TILL LOW DENSITY RES
41 44 0.15 2. 0. 2.
***TILL HIGH DENSITY RES
51 54 0.09 2. 0. 2.
***TILL COMMERCIAL/INDUSTRIAL
61 64 0.15 2. 0. 2.
***OUTWASH
71 0.40 2. 0. 2.
72 0.60 2. 0. 2.
73 0.80 2. 0. 2.
74 0.30 2. 0. 2.
75 0.18 2. 0. 2.
76 0.30 2. 0. 2.
***SATURATED
81 0.20 2. 0. 2.
82 0.20 2. 0. 2.
83 0.40 2. 0. 2.
84 0.15 2. 0. 2.
85 0.09 2. 0. 2.
86 0.15 2. 0. 2.
***TILL FOREST UPPER WATERSHED
211 214 0.20 2. 0. 2.
***TILL PASTURE/AG
221 224 0.20 2. 0. 2.
***TILL FOREST RESIDENTIAL
231 234 0.40 2. 0. 2.
***TILL LOW DENSITY RES
241 244 0.15 2. 0. 2.
***TILL HIGH DENSITY RES
251 254 0.09 2. 0. 2.
***TILL COMMERCIAL/INDUSTRIAL
261 264 0.15 2. 0. 2.
***OUTWASH
271 0.40 2. 0. 2.
272 0.60 2. 0. 2.
273 0.80 2. 0. 2.
274 0.30 2. 0. 2.
275 0.18 2. 0. 2.
276 0.30 2. 0. 2.
***SATURATED
281 0.20 2. 0. 2.
282 0.20 2. 0. 2.
283 0.40 2. 0. 2.
284 0.15 2. 0. 2.
285 0.09 2. 0. 2.
286 0.15 2. 0. 2.
***BEDROCK PERLND
311 314 0.20 2. 0. 2.
321 324 0.20 2. 0. 2.
331 334 0.40 2. 0. 2.
341 344 0.15 2. 0. 2.
351 354 0.09 2. 0. 2.
361 364 0.15 2. 0. 2.
END SED-PARM3

```

MON-COVER

```

*** <PLS > Monthly values for erosion related cover
*** x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
***TILL FOREST
11 14 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97
***TILL PASTURE/AG
21 24 0.65 0.60 0.55 0.50 0.55 0.65 0.75 0.85 0.85 0.80 0.80 0.70
***TILL FOREST RESIDENTIAL
31 34 0.93 0.93 0.93 0.94 0.96 0.96 0.96 0.96 0.96 0.94 0.93 0.93
***TILL LOW DENSITY RES
41 44 0.90 0.90 0.90 0.91 0.93 0.93 0.93 0.93 0.93 0.91 0.90 0.90
***TILL HIGH DENSITY RES
51 54 0.70 0.70 0.70 0.73 0.75 0.75 0.75 0.75 0.75 0.73 0.70 0.70
***TILL COMMERCIAL/INDUSTRIAL
61 64 0.60 0.60 0.60 0.65 0.67 0.69 0.69 0.69 0.67 0.65 0.60 0.60
***OUTWASH

```

```

71      0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97
72      0.65 0.60 0.55 0.50 0.55 0.65 0.75 0.85 0.85 0.80 0.80 0.70
73      0.93 0.93 0.93 0.94 0.96 0.96 0.96 0.96 0.96 0.94 0.93 0.93
74      0.90 0.90 0.90 0.91 0.93 0.93 0.93 0.93 0.93 0.91 0.90 0.90
75      0.70 0.70 0.70 0.73 0.75 0.75 0.75 0.75 0.75 0.73 0.70 0.70
76      0.60 0.60 0.60 0.65 0.67 0.69 0.69 0.69 0.67 0.65 0.60 0.60
***SATURATED
81      0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97
82      0.65 0.60 0.55 0.50 0.55 0.65 0.75 0.85 0.85 0.80 0.80 0.70
83      0.93 0.93 0.93 0.94 0.96 0.96 0.96 0.96 0.96 0.94 0.93 0.93
84      0.90 0.90 0.90 0.91 0.93 0.93 0.93 0.93 0.93 0.91 0.90 0.90
85      0.70 0.70 0.70 0.73 0.75 0.75 0.75 0.75 0.75 0.73 0.70 0.70
86      0.60 0.60 0.60 0.65 0.67 0.69 0.69 0.69 0.67 0.65 0.60 0.60
***TILL FOREST UPPER WATERSHED
211    214 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97
***TILL PASTURE/AG
221    224 0.65 0.60 0.55 0.50 0.55 0.65 0.75 0.93 0.93 0.90 0.80 0.70
***TILL FOREST RESIDENTIAL
231    234 0.93 0.93 0.93 0.94 0.96 0.96 0.96 0.96 0.96 0.94 0.93 0.93
***TILL LOW DENSITY RES
241    244 0.90 0.90 0.90 0.91 0.93 0.93 0.93 0.93 0.93 0.91 0.90 0.90
***TILL HIGH DENSITY RES
251    254 0.70 0.70 0.70 0.73 0.75 0.75 0.75 0.75 0.75 0.73 0.70 0.70
***TILL COMMERCIAL/INDUSTRIAL
261    264 0.60 0.60 0.60 0.65 0.67 0.69 0.69 0.69 0.67 0.65 0.60 0.60
***OUTWASH
271      0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97
272      0.65 0.60 0.55 0.50 0.55 0.65 0.75 0.85 0.85 0.80 0.80 0.70
273      0.93 0.93 0.93 0.94 0.96 0.96 0.96 0.96 0.96 0.94 0.93 0.93
274      0.90 0.90 0.90 0.91 0.93 0.93 0.93 0.93 0.93 0.91 0.90 0.90
275      0.70 0.70 0.70 0.73 0.75 0.75 0.75 0.75 0.75 0.73 0.70 0.70
276      0.60 0.60 0.60 0.65 0.67 0.69 0.69 0.69 0.67 0.65 0.60 0.60
***SATURATED
281      0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97
282      0.65 0.60 0.55 0.50 0.55 0.65 0.75 0.85 0.85 0.80 0.80 0.70
283      0.93 0.93 0.93 0.94 0.96 0.96 0.96 0.96 0.96 0.94 0.93 0.93
284      0.90 0.90 0.90 0.91 0.93 0.93 0.93 0.93 0.93 0.91 0.90 0.90
285      0.70 0.70 0.70 0.73 0.75 0.75 0.75 0.75 0.75 0.73 0.70 0.70
286      0.60 0.60 0.60 0.65 0.67 0.69 0.69 0.69 0.67 0.65 0.60 0.60
***BEDROCK PERLINDS
311    314 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97
321    324 0.65 0.60 0.55 0.50 0.55 0.65 0.75 0.93 0.93 0.90 0.80 0.70
331    334 0.93 0.93 0.93 0.94 0.96 0.96 0.96 0.96 0.96 0.94 0.93 0.93
341    344 0.90 0.90 0.90 0.91 0.93 0.93 0.93 0.93 0.93 0.91 0.90 0.90
351    354 0.70 0.70 0.70 0.73 0.75 0.75 0.75 0.75 0.75 0.73 0.70 0.70
361    364 0.60 0.60 0.60 0.65 0.67 0.69 0.69 0.69 0.67 0.65 0.60 0.60
END MON-COVER

SED-STOR
*** <PLS >
*** x - x Detached sediment storage (tons/acre)
***TILL FOREST
11     14     0.05
***TILL PASTURE/AG
21     24     0.12
***TILL FOREST RESIDENTIAL
31     34     0.06
***TILL LOW DENSITY RES
41     44     0.06
***TILL HIGH DENSITY RES
51     54     0.05
***TILL COMMERCIAL/INDUSTRIAL
61     64     0.07
***OUTWASH
71           0.07
72           0.14
73           0.08
74           0.08
75           0.07
76           0.12
***SATURATED
81           0.07
82           0.14
83           0.08
84           0.08
85           0.07

```

```

86          0.12
***TILL FOREST UPPER WATERSHED
211 214    0.05
***TILL PASTURE/AG
221 224    0.12
***TILL FOREST RESIDENTIAL
231 234    0.06
***TILL LOW DENSITY RES
241 244    0.06
***TILL HIGH DENSITY RES
251 254    0.05
***TILL COMMERCIAL/INDUSTRIAL
261 264    0.07
***OUTWASH
271          0.07
272          0.14
273          0.08
274          0.08
275          0.07
276          0.12
***SATURATED
281          0.07
282          0.14
283          0.08
284          0.08
285          0.07

286          0.12
***Bedrock PerLnds
311 314    0.05
321 324    0.12
331 334    0.06
341 344    0.06
351 354    0.05
361 364    0.07
END SED-STOR

```

\*\*\* Section PQUAL - Water Quality Constituents \*\*\*

```

NQUALS
# # NQAL *** (1=NO3, 2=NH3, 3=PO4, 4=BOD, 5=ALK, 6=Silica, 7=E-Coli, 8=Copper, 9=FecColi)
11 364 9
END NQUALS

```

```

PQL-AD-FLAGS
      Atmospheric Deposition Flags ***
<PLS > QUAL1 QUAL2 ***
# - # F C F C ***
11 364 0 -1 0 -1
END PQL-AD-FLAGS

```

```

      QUAL #1 NO3 ***
QUAL-PROPS
*** <PLS > Identifiers and Flags
*** x - x QUALID QTID QSD VPFW VPFS QSO VQO QIFW VIQC QAGW VAQC
11 344NO2+NO3 LBS 0 0 0 2 1 1 3 1 3
END QUAL-PROPS

```

```

QUAL-INPUT
*** Storage on surface and nonseasonal parameters
*** SQO POTFW POTFS ACQOP SQOLIM WSQOP IOQC AOQC
*** <PLS > qty/ac qty/ton qty/ton qty/ qty/ in/hr qty/ft3 qty/ft3
*** x - x ac.day
11 14 0. 0. 0. 0. 1.e-6 1.5 0. 0.
21 22 0. 0. 0. 0. 1.e-6 0.5 0. 0.
31 32 0. 0. 0. 0. 1.e-6 0.9 0. 0.
41 51 0. 0. 0. 0. 1.e-6 0.5 0. 0.
71 0. 0. 0. 0. 1.e-6 1.5 0. 0.
72 0. 0. 0. 0. 1.e-6 0.5 0. 0.
73 0. 0. 0. 0. 1.e-6 0.9 0. 0.
74 0. 0. 0. 0. 1.e-6 0.5 0. 0.
81 0. 0. 0. 0. 1.e-6 1.5 0. 0.
84 0. 0. 0. 0. 1.e-6 0.5 0. 0.
211 214 0. 0. 0. 0. 1.e-6 1.5 0. 0.
221 0. 0. 0. 0. 1.e-6 0.5 0. 0.
231 0. 0. 0. 0. 1.e-6 0.9 0. 0.

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241 251      0.      0.      0.      0.      1.e-6      0.5      0.      0.
271          0.      0.      0.      0.      1.e-6      1.5      0.      0.
272          0.      0.      0.      0.      1.e-6      0.5      0.      0.
273          0.      0.      0.      0.      1.e-6      0.9      0.      0.
274          0.      0.      0.      0.      1.e-6      0.5      0.      0.
281          0.      0.      0.      0.      1.e-6      1.5      0.      0.
284          0.      0.      0.      0.      1.e-6      0.5      0.      0.
313 314      0.      0.      0.      0.      1.e-6      1.5      0.      0.
331          0.      0.      0.      0.      1.e-6      0.9      0.      0.
344          0.      0.      0.      0.      1.e-6      0.5      0.      0.
END QUAL-INPUT

```

MON-ACCUM

\*\*\* <PLS > Value at start of each month for accum rate of QUALOF (lb/ac.day)

```

*** x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
11 14 0.1 0.1 0.1 0.01 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.1 0.1
21 22.0004.0004.0004.0005.0007.0016.0016.0016.0016.0016.0024.0015
31 32.0003.0003.0003.0002.0002.0002.0002.0002.0002.0002.0002.0003
41 42.0002.0002.0002.0003.0003.0003.0003.0003.0003.0003.0003.0002
51 .0002.0002.0002.0003.0004.0004.0004.0004.0004.0004.0003.0002
71 0.1 0.1 0.1 0.01 0.03 0.03 0.03 0.03 0.03 0.03 0.1 0.1
72 .0004.0004.0004.0005.0007.0016.0016.0016.0016.0016.0024.0015
73 .0003.0003.0003.0002.0002.0002.0002.0002.0002.0002.0002.0003
74 .0002.0002.0002.0003.0003.0003.0003.0003.0003.0003.0003.0002
81 0.1 0.1 0.1 0.01 0.03 0.03 0.03 0.03 0.03 0.03 0.1 0.1
84 .0002.0002.0002.0003.0003.0003.0003.0003.0003.0003.0003.0002
211 214 0.1 0.1 0.1 0.01 0.03 0.03 0.03 0.03 0.03 0.03 0.1 0.1
221 .0004.0004.0004.0005.0007.0016.0016.0016.0016.0016.0024.0015
231 .0003.0003.0003.0002.0002.0002.0002.0002.0002.0002.0002.0003
241 .0002.0002.0002.0003.0003.0003.0003.0003.0003.0003.0003.0002
251 .0002.0002.0002.0003.0004.0004.0004.0004.0004.0004.0003.0002
271 0.1 0.1 0.1 0.01 0.03 0.03 0.03 0.03 0.03 0.03 0.1 0.1
272 .0004.0004.0004.0005.0007.0016.0016.0016.0016.0016.0024.0015
273 .0003.0003.0003.0002.0002.0002.0002.0002.0002.0002.0002.0003
274 .0002.0002.0002.0003.0003.0003.0003.0003.0003.0003.0003.0002
281 0.1 0.1 0.1 0.01 0.03 0.03 0.03 0.03 0.03 0.03 0.1 0.1
284 .0002.0002.0002.0003.0003.0003.0003.0003.0003.0003.0003.0002
313 314 0.1 0.1 0.1 0.01 0.03 0.03 0.03 0.03 0.03 0.03 0.1 0.1
331 .0003.0003.0003.0002.0002.0002.0002.0002.0002.0002.0002.0003
344 .0002.0002.0002.0003.0003.0003.0003.0003.0003.0003.0003.0002
END MON-ACCUM

```

MON-SQOLIM

\*\*\* <PLS > Value at start of month for limiting storage of QUALOF (lb/ac)

```

*** x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
11 14 0.2 0.2 0.20.0350.0450.0450.0450.0450.0450.045 0.35 0.3
21 220.0030.0030.003.0036.00540.0090.0090.0090.0090.009.0114.0072
31 32.0005.0005.0005.0005.0007.0007.0007.0007.0007.0007.0007.0005
41 42.0009.0009.0012.0012.0015.0015.0015.0015.0015.0015.0012.0012
51 .0015.0015.0019.0019.0023.0023.0023.0023.0023.0023.0019.0019
71 0.2 0.2 0.20.0350.0450.0450.0450.0450.0450.045 0.35 0.3
72 0.0030.0030.003.0036.00540.0090.0090.0090.0090.009.0114.0072
73 .0005.0005.0005.0005.0007.0007.0007.0007.0007.0007.0007.0005
74 .0009.0009.0012.0012.0015.0015.0015.0015.0015.0015.0012.0012
81 0.2 0.2 0.20.0350.0450.0450.0450.0450.0450.045 0.35 0.3
84 .0009.0009.0012.0012.0015.0015.0015.0015.0015.0015.0012.0012
211 214 0.2 0.2 0.20.0350.0450.0450.0450.0450.0450.045 0.35 0.3
221 0.0030.0030.003.0036.00540.0090.0090.0090.0090.009.0114.0072
231 .0005.0005.0005.0005.0007.0007.0007.0007.0007.0007.0007.0005
241 .0009.0009.0012.0012.0015.0015.0015.0015.0015.0015.0012.0012
251 .0015.0015.0019.0019.0023.0023.0023.0023.0023.0023.0019.0019
271 0.2 0.2 0.20.0350.0450.0450.0450.0450.0450.045 0.35 0.3
272 0.0030.0030.003.0036.00540.0090.0090.0090.0090.009.0114.0072
273 .0005.0005.0005.0005.0007.0007.0007.0007.0007.0007.0007.0005
274 .0009.0009.0012.0012.0015.0015.0015.0015.0015.0015.0012.0012
281 0.2 0.2 0.20.0350.0450.0450.0450.0450.0450.045 0.35 0.3
284 .0009.0009.0012.0012.0015.0015.0015.0015.0015.0015.0012.0012
313 314 0.2 0.2 0.20.0350.0450.0450.0450.0450.0450.045 0.35 0.3
331 .0005.0005.0005.0005.0007.0007.0007.0007.0007.0007.0007.0005
344 .0009.0009.0012.0012.0015.0015.0015.0015.0015.0015.0012.0012
END MON-SQOLIM

```

MON-IFLW-CONC

\*\*\* <PLS > Conc of QUAL in interflow outflow for each month (qty/ft3)

```

*** x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
11 141.7161.7161.235 1.040.455 0.35 0.28 0.28 0.280.3360.6721.482

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```

21 2211.5512.21 6 2.55 2.04 2.04 2.04 2.04 2.04 2.042.142 10.8 19.8

31 32 2.64 2.64 1.20.5040.5040.5040.5040.5040.5040.576 1.92 2.28
41 42 3.55 3.55 1.65 1.05 0.84 0.84 0.84 0.84 0.84 0.84 0.963.1253.125
51 7.4 7.4 3.6 2.4 2.4 2.4 2.4 2.4 2.4 2.4 6.4 6.4
71 1.7161.7161.235 1.040.455 0.35 0.28 0.28 0.280.3360.6721.482
72 11.5512.21 6 2.55 2.04 2.04 2.04 2.04 2.042.142 10.8 19.8
73 2.64 2.64 1.20.5040.5040.5040.5040.5040.5040.576 1.92 2.28
74 3.55 3.55 1.65 1.05 0.84 0.84 0.84 0.84 0.84 0.963.1253.125
81 1.7161.7161.235 1.040.455 0.35 0.28 0.28 0.280.3360.6721.482
84 3.55 3.55 1.65 1.05 0.84 0.84 0.84 0.84 0.84 0.963.1253.125
211 2141.7161.7161.235 1.040.455 0.35 0.28 0.28 0.280.3360.6721.482
221 11.5512.21 6 2.55 2.04 2.04 2.04 2.04 2.042.142 10.8 19.8
231 2.64 2.64 1.20.5040.5040.5040.5040.5040.5040.576 1.92 2.28
241 3.55 3.55 1.65 1.05 0.84 0.84 0.84 0.84 0.84 0.963.1253.125
251 7.4 7.4 3.6 2.4 2.4 2.4 2.4 2.4 2.4 2.4 6.4 6.4
271 1.7161.7161.235 1.040.455 0.35 0.28 0.28 0.280.3360.6721.482
272 11.5512.21 6 2.55 2.04 2.04 2.04 2.04 2.042.142 10.8 19.8
273 2.64 2.64 1.20.5040.5040.5040.5040.5040.5040.576 1.92 2.28
274 3.55 3.55 1.65 1.05 0.84 0.84 0.84 0.84 0.84 0.963.1253.125
281 1.7161.716 1.04 1.040.455 0.35 0.28 0.28 0.280.3360.6721.482
284 3.55 3.55 1.65 1.05 0.84 0.84 0.84 0.84 0.84 0.963.1253.125
313 3141.7161.7161.235 1.040.455 0.35 0.28 0.28 0.280.3360.6721.482
331 2.64 2.64 1.20.5040.5040.5040.5040.5040.5040.576 1.92 2.28
344 3.55 3.55 1.65 1.05 0.84 0.84 0.84 0.84 0.84 0.963.1253.125
END MON-IFLW-CONC

```

MON-GRND-CONC

```

*** <PLS > Value at start of month for conc of QUAL in groundwater (qty/ft3)
*** x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
11 140.6750.725 0.660.576 0.480.4320.4320.4320.4320.432 0.55 0.55
21 22 8.4 8.47.7527.125 6.846.5556.555 6.84 6.84 6.84 6.84 7.8
31 321.1221.122 0.96 0.84 0.84 0.84 0.84 0.84 0.84 0.96 1.e0 1.e0
41 421.5731.573 1.62 1.44 1.44 1.44 1.44 1.44 1.44 1.441.4521.573
51 3.8613.8613.8883.4563.4563.4563.4563.4563.4563.5643.861
71 0.6750.725 0.660.576 0.480.4320.4320.4320.4320.432 0.55 0.55
72 8.4 8.47.7527.125 6.846.5556.555 6.84 6.847.125 6.84 7.8
73 1.1221.122 0.96 0.84 0.84 0.84 0.84 0.84 0.84 0.96 1.e0 1.e0
74 1.5731.573 1.62 1.44 1.44 1.44 1.44 1.44 1.44 1.441.4521.573
81 0.6750.725 0.660.576 0.480.4320.4320.4320.4320.432 0.55 0.55
84 1.5731.573 1.62 1.44 1.44 1.44 1.44 1.44 1.44 1.441.4521.573
211 2140.6750.725 0.660.576 0.480.4320.4320.4320.4320.432 0.55 0.55
221 8.4 8.47.7527.125 6.846.5556.555 6.84 6.847.125 6.84 7.8
231 1.1221.122 0.96 0.84 0.84 0.84 0.84 0.84 0.84 0.96 1.e0 1.e0
241 1.5731.573 1.62 1.44 1.44 1.44 1.44 1.44 1.44 1.441.4521.573
251 3.8613.8613.8883.4563.4563.4563.4563.4563.4563.5643.861
271 0.6750.725 0.660.576 0.480.4320.4320.4320.4320.432 0.55 0.55
272 8.4 8.47.7527.125 6.846.5556.555 6.84 6.847.125 6.84 7.8
273 1.1221.122 0.96 0.84 0.84 0.84 0.84 0.84 0.84 0.96 1.e0 1.e0
274 1.5731.573 1.62 1.44 1.44 1.44 1.44 1.44 1.44 1.441.4521.573
281 0.6750.725 0.660.576 0.480.4320.4320.4320.4320.432 0.55 0.55
284 1.5731.573 1.62 1.44 1.44 1.44 1.44 1.44 1.44 1.441.4521.573
313 3140.6750.725 0.660.576 0.480.4320.4320.4320.4320.432 0.55 0.55
331 1.1221.122 0.96 0.84 0.84 0.84 0.84 0.84 0.84 0.96 1.e0 1.e0
344 1.5731.573 1.62 1.44 1.44 1.44 1.44 1.44 1.44 1.441.4521.573
END MON-GRND-CONC

```

QUAL-PROPS

```

*** <PLS > Identifiers and Flags
*** x - x QUALID QTID QSD VPFW VPFS QSO VQO QIFW VIQC QAGW VAQC
11 344NH3 LBS 0 0 0 2 1 1 3 1 3
END QUAL-PROPS

```

QUAL-INPUT

```

*** Storage on surface and nonseasonal parameters
*** SQO POTFW POTFS ACQOP SQOLIM WSQOP IOQC AOQC
*** <PLS > qty/ac qty/ton qty/ton qty/ qty/ ac.day in/hr qty/ft3 qty/ft3
*** x - x
11 14 0. 0. 0. 0. 1.e-6 1.5 0. 0.
21 22 0. 0. 0. 0. 1.e-6 0.5 0. 0.
31 32 0. 0. 0. 0. 1.e-6 0.9 0. 0.
41 51 0. 0. 0. 0. 1.e-6 0.5 0. 0.
71 0. 0. 0. 0. 1.e-6 1.5 0. 0.
72 0. 0. 0. 0. 1.e-6 0.5 0. 0.
73 0. 0. 0. 0. 1.e-6 0.9 0. 0.
74 0. 0. 0. 0. 1.e-6 0.5 0. 0.

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81      0.      0.      0.      0.      1.e-6      1.5      0.      0.
84      0.      0.      0.      0.      1.e-6      0.5      0.      0.
211    214      0.      0.      0.      0.      1.e-6      1.5      0.      0.
221      0.      0.      0.      0.      1.e-6      0.5      0.      0.
231      0.      0.      0.      0.      1.e-6      0.9      0.      0.
241    251      0.      0.      0.      0.      1.e-6      0.5      0.      0.
271      0.      0.      0.      0.      1.e-6      1.5      0.      0.
272      0.      0.      0.      0.      1.e-6      0.5      0.      0.
273      0.      0.      0.      0.      1.e-6      0.9      0.      0.
274      0.      0.      0.      0.      1.e-6      0.5      0.      0.
281      0.      0.      0.      0.      1.e-6      1.5      0.      0.
284      0.      0.      0.      0.      1.e-6      0.5      0.      0.
313    314      0.      0.      0.      0.      1.e-6      1.5      0.      0.
331      0.      0.      0.      0.      1.e-6      0.9      0.      0.
344      0.      0.      0.      0.      1.e-6      0.5      0.      0.
END QUAL-INPUT

```

MON-ACCUM

\*\*\* <PLS > Value at start of each month for accum rate of QUALOF (lb/ac.day)

```

*** x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
11 141.e-51.e-51.e-51.e-5.00022.e-52.e-52.e-52.e-52.e-51.e-51.e-5
21 22 0.06 0.06 0.030.045 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.12
31 32.0001.0001.0001.0001.0001.0001.0001.0001.0001.0001.0001.0001
41 426.e-5.0001.0036.0072.0108.0144.0144.0144.01440.0180.045.0125
51 7.e-5.00010.0060.0120.018.0225.0225.0225.0225 0.03 0.07 0.02
71 1.e-51.e-51.e-51.e-5.00022.e-52.e-52.e-52.e-52.e-51.e-51.e-5
72 0.06 0.06 0.030.045 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.12
73 .0001.0001.0001.0001.0001.0001.0001.0001.0001.0001.0001.0001
74 6.e-5.0001.0036.0072.0108.0144.0144.0144.01440.0180.045.0125
81 1.e-51.e-51.e-51.e-5.00022.e-52.e-52.e-52.e-52.e-51.e-51.e-5
84 6.e-5.0001.0036.0072.0108.0144.0144.0144.01440.0180.045.0125
211 2141.e-51.e-51.e-51.e-5.00022.e-52.e-52.e-52.e-52.e-51.e-51.e-5
221 0.06 0.06 0.030.045 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.12
231 .0001.0001.0001.0001.0001.0001.0001.0001.0001.0001.0001.0001
241 6.e-5.0001.0036.0072.0108.0144.0144.0144.01440.0180.045.0125
251 7.e-5.00010.0060.0120.018.0225.0225.0225.0225 0.03 0.07 0.02
271 1.e-51.e-51.e-51.e-5.00022.e-52.e-52.e-52.e-52.e-51.e-51.e-5
272 0.06 0.06 0.030.045 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.12
273 .0001.0001.0001.0001.0001.0001.0001.0001.0001.0001.0001.0001
274 6.e-5.0001.0036.0072.0108.0144.0144.0144.01440.0180.045.0125
281 1.e-51.e-51.e-51.e-5.00022.e-52.e-52.e-52.e-52.e-51.e-51.e-5
284 6.e-5.0001.0036.0072.0108.0144.0144.0144.01440.0180.045.0125
313 3141.e-51.e-51.e-51.e-5.00022.e-52.e-52.e-52.e-52.e-51.e-51.e-5
331 .0001.0001.0001.0001.0001.0001.0001.0001.0001.0001.0001.0001
344 6.e-5.0001.0036.0072.0108.0144.0144.0144.01440.0180.045.0125
END MON-ACCUM

```

MON-SQOLIM

\*\*\* <PLS > Value at start of month for limiting storage of QUALOF (lb/ac)

```

*** x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
11 146.e-56.e-58.e-58.e-5.0012.0002.0002.0002.0002.00029.e-59.e-5
21 22 0.45 0.45 0.27 0.27 0.3 0.3 0.3 0.3 0.3 0.3 0.6
31 32.0006.0006.0001.0001.0002.0002.0002.0002.0002.0002.0009.0009
41 42.0006.00060.0180.0360.0540.0720.0720.0720.072 0.090.225 0.05
51 .0006.0008 0.03 0.06 0.09.1125.1125.1125.1125 0.15 0.37 0.08
71 6.e-56.e-58.e-58.e-5.0012.0002.0002.0002.0002.00029.e-59.e-5
72 0.45 0.45 0.27 0.27 0.3 0.3 0.3 0.3 0.3 0.3 0.6
73 .0006.0006.0001.0001.0002.0002.0002.0002.0002.0002.0009.0009
74 .0006.00060.0180.0360.0540.0720.0720.0720.072 0.090.225 0.05
81 6.e-56.e-58.e-58.e-5.0012.0002.0002.0002.0002.00029.e-59.e-5
84 .0006.00060.0180.0360.0540.0720.0720.0720.072 0.090.225 0.05
211 2146.e-56.e-58.e-58.e-5.0012.0002.0002.0002.0002.00029.e-59.e-5
221 0.45 0.45 0.27 0.27 0.3 0.3 0.3 0.3 0.3 0.3 0.6
231 .0006.0006.0001.0001.0002.0002.0002.0002.0002.0002.0009.0009
241 .0006.00060.0180.0360.0540.0720.0720.0720.072 0.090.225 0.05
251 .0006.0008 0.03 0.06 0.09.1125.1125.1125.1125 0.15 0.37 0.08
271 6.e-56.e-58.e-58.e-5.0012.0002.0002.0002.0002.00029.e-59.e-5
272 0.45 0.45 0.27 0.27 0.3 0.3 0.3 0.3 0.3 0.3 0.6
273 .0006.0006.0001.0001.0002.0002.0002.0002.0002.0002.0009.0009
274 .0006.00060.0180.0360.0540.0720.0720.0720.072 0.090.225 0.05
281 6.e-56.e-58.e-58.e-5.0012.0002.0002.0002.0002.00029.e-59.e-5
284 .0006.00060.0180.0360.0540.0720.0720.0720.072 0.090.225 0.05
313 3146.e-56.e-58.e-58.e-5.0012.0002.0002.0002.0002.00029.e-59.e-5
331 .0006.0006.0001.0001.0002.0002.0002.0002.0002.0002.0009.0009
344 .0006.00060.0180.0360.0540.0720.0720.0720.072 0.090.225 0.05
END MON-SQOLIM

```



```

MON-IFLW-CONC
*** <PLS > Conc of QUAL in interflow outflow for each month (qty/ft3)
*** x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
11 14.0211.0202.0074.0074.0074.0074.0074.0074.0074.008.0084.0221
21 22.2688.26880.1120.1120.1120.1120.1120.1120.1120.1120.112.2688
31 32.0317.0302.0147.0147.0147.0147.0147.0147.0147.0161.0202.0331
41 51.0096.0096 0.02 0.02 0.02 0.02 0.02 0.020.0160.012.0396.0132
71 .0211.0202.0074.0074.0074.0074.0074.0074.0074.008.0084.0221
72 .2688.26880.1120.1120.1120.1120.1120.1120.1120.1120.112.2688
73 .0317.0302.0147.0147.0147.0147.0147.0147.0147.0161.0202.0331
74 .0096.0096 0.02 0.02 0.02 0.02 0.02 0.020.0160.012.0396.0132
81 .0211.0202.0074.0074.0074.0074.0074.0074.0074.008.0084.0221
84 .0096.0096 0.02 0.02 0.02 0.02 0.02 0.020.0160.012.0396.0132
211 214.0211.0202.0074.0074.0074.0074.0074.0074.0074.008.0084.0221
221 .2688.26880.1120.1120.1120.1120.1120.1120.1120.112.2688
231 .0317.0302.0147.0147.0147.0147.0147.0147.0147.0161.0202.0331
241 251.0096.0096 0.02 0.02 0.02 0.02 0.02 0.020.0160.012.0396.0132
271 .0211.0202.0074.0074.0074.0074.0074.0074.0074.008.0084.0221
272 .2688.26880.1120.1120.1120.1120.1120.1120.1120.112.2688
273 .0317.0302.0147.0147.0147.0147.0147.0147.0147.0161.0202.0331
274 .0096.0096 0.02 0.02 0.02 0.02 0.02 0.020.0160.012.0396.0132
281 .0211.0202.0074.0074.0074.0074.0074.0074.0074.008.0084.0221
284 .0096.0096 0.02 0.02 0.02 0.02 0.02 0.020.0160.012.0396.0132
313 314.0211.0202.0074.0074.0074.0074.0074.0074.0074.008.0084.0221
331 .0317.0302.0147.0147.0147.0147.0147.0147.0147.0161.0202.0331
344 .0096.0096 0.02 0.02 0.02 0.02 0.02 0.020.0160.012.0396.0132
END MON-IFLW-CONC

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MON-GRND-CONC
*** <PLS > Value at start of month for conc of QUAL in groundwater (qty/ft3)
*** x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
11 14.0148.00940.008.0094.0108.0122.01360.015.0164.0178.0192.0216
21 22.0173.0173.0112.0112.0112.0112.0112.0112.0112.0112.0112.0173
31 320.0110.008.0048.0055.00620.007.0077.0084.0091.0098.01060.015
41 42.0259.02160.009.0074.0074.0074.0074.0074.0074.008.0105.0105.0126
51 0.105 0.090.029.0233.0233.0233.0233.0233.0264.0335.0348.0528
71 .0148.00940.008.0094.0108.0122.01360.015.0164.0178.0192.0216
72 .0173.0173.0112.0112.0112.0112.0112.0112.0112.0112.0112.0173
73 0.0110.008.0048.0055.00620.007.0077.0084.0091.0098.01060.015
74 .0259.02160.009.0074.0074.0074.0074.0074.008.0105.0105.0126
81 .0148.00940.008.0094.0108.0122.01360.015.0164.0178.0192.0216
84 .0259.02160.009.0074.0074.0074.0074.0074.008.0105.0105.0126
211 214.0148.00940.008.0094.0108.0122.01360.015.0164.0178.0192.0216
221 .0173.0173.0112.0112.0112.0112.0112.0112.0112.0112.0112.0173
231 0.0110.008.0048.0055.00620.007.0077.0084.0091.0098.01060.015
241 .0259.02160.009.0074.0074.0074.0074.0074.008.0105.0105.0126
251 0.105 0.090.029.0233.0233.0233.0233.0233.0264.0335.0348.0528
271 .0148.00940.008.0094.0108.0122.01360.015.0164.0178.0192.0216
272 .0173.0173.0112.0112.0112.0112.0112.0112.0112.0112.0112.0173
273 0.0110.008.0048.0055.00620.007.0077.0084.0091.0098.01060.015
274 .0259.02160.009.0074.0074.0074.0074.0074.008.0105.0105.0126
281 .0148.00940.008.0094.0108.0122.01360.015.0164.0178.0192.0216
284 .0259.02160.009.0074.0074.0074.0074.0074.008.0105.0105.0126
313 314.0148.00940.008.0094.0108.0122.01360.015.0164.0178.0192.0216
331 0.0110.008.0048.0055.00620.007.0077.0084.0091.0098.01060.015
344 .0259.02160.009.0074.0074.0074.0074.0074.008.0105.0105.0126
END MON-GRND-CONC

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QUAL-PROPS
*** <PLS > Identifiers and Flags
*** x - x QUALID QTID QSD VPFW VPFS QSO VQO QIFW VIQC QAGW VAQC
11 344PO4 LBS 1 1 0 0 0 1 3 1 3
END QUAL-PROPS

```

```

QUAL-INPUT
*** Storage on surface and nonseasonal parameters
*** SQO POTFW POTFS ACQOP SQOLIM WSQOP IOQC AOQC
*** <PLS > qty/ac qty/ton qty/ton qty/ qty/ac in/hr qty/ft3 qty/ft3
*** x - x ac.day
11 344 0. 0. 0. 0. 1.e-6 0. 0. 0.
END QUAL-INPUT

```

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MON-POTFW
*** <PLS > Value at start of each month for washoff potency factor (lb/ton)

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Newaukum Creek UCI File

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*** x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
11 140.0250.0250.0250.0250.0250.0060.0060.0060.0060.0060.0060.025
21 22 20.4 20.4 20.4 14.4 14.4 15.6 15.6 15.6 15.6 15.6 15.6 22.1
31 32 0.4 0.4 0.4 0.4 0.4 0.4 0.18 0.18 0.18 0.18 0.18 0.4
41 42 0.8 0.8 0.8 0.8 0.80.8450.8450.8450.8450.8451.105 0.68
51 0.8 0.8 0.8 0.8 0.80.8250.8250.8250.8250.825 1.05 0.7
71 0.0250.0250.0250.0250.0250.0060.0060.0060.0060.0060.0060.025
72 20.4 20.4 20.4 14.4 14.4 15.6 15.6 15.6 15.6 15.6 15.6 22.1
73 0.4 0.4 0.4 0.4 0.4 0.18 0.18 0.18 0.18 0.18 0.18 0.4
74 0.8 0.8 0.8 0.8 0.80.8450.8450.8450.8450.8451.105 0.68
81 0.0250.0250.0250.0250.0250.0060.0060.0060.0060.0060.0060.025
84 0.8 0.8 0.8 0.8 0.80.8450.8450.8450.8450.8450.8451.105 0.68
211 2140.0250.0250.0250.0250.0250.0060.0060.0060.0060.0060.0060.025
221 20.4 20.4 20.4 14.4 14.4 15.6 15.6 15.6 15.6 15.6 15.6 22.1
231 0.4 0.4 0.4 0.4 0.4 0.18 0.18 0.18 0.18 0.18 0.18 0.4
241 0.8 0.8 0.8 0.8 0.80.8450.8450.8450.8450.8451.105 0.68
251 0.8 0.8 0.8 0.8 0.80.8250.8250.8250.8250.825 1.05 0.7
271 0.0250.0250.0250.0250.0250.0060.0060.0060.0060.0060.0060.025
272 20.4 20.4 20.4 14.4 14.4 15.6 15.6 15.6 15.6 15.6 15.6 22.1
273 0.4 0.4 0.4 0.4 0.4 0.18 0.18 0.18 0.18 0.18 0.18 0.4
274 0.8 0.8 0.8 0.8 0.80.8450.8450.8450.8450.8451.105 0.68
281 0.0250.0250.0250.0250.0250.0060.0060.0060.0060.0060.0060.025
284 0.8 0.8 0.8 0.8 0.80.8450.8450.8450.8450.8451.105 0.68
313 3140.0250.0250.0250.0250.0250.0060.0060.0060.0060.0060.0060.025
331 0.4 0.4 0.4 0.4 0.4 0.18 0.18 0.18 0.18 0.18 0.18 0.4
344 0.8 0.8 0.8 0.8 0.80.8450.8450.8450.8450.8451.105 0.68
END MON-POTFW

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MON-IFLW-CONC

```

*** <PLS > Conc of QUAL in interflow outflow for each month (qty/ft3)
*** x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
11 14.0172.0172.0172.0172.0172.0108.0108.0108.0108.0108.0028.0028
21 220.7280.7280.7280.7280.7283.0243.0243.0243.0243.0243.0242.736 0.84
31 32.0255.0255.0255.0255.0294.0576.0576.0576.0576.0576.0486.0392
41 42.0372.0372.0372.0372.0412.0864.0864.0864.0864.0864.08640.049
51 .0451.0451.0451.04510.049.0907.0907.09070.0950.0950.095.0627
71 .0172.0172.0172.0172.0172.0108.0108.0108.0108.0108.0028.0028
72 0.7280.7280.7280.7280.7283.0243.0243.0243.0243.0242.736 0.84
73 .0255.0255.0255.0255.0294.0576.0576.0576.0576.0576.0486.0392
74 .0372.0372.0372.0372.0412.0864.0864.0864.0864.0864.08640.049
81 .0172.0172.0172.0172.0172.0108.0108.0108.0108.0108.0028.0028
84 .0372.0372.0372.0372.0412.0864.0864.0864.0864.0864.08640.049
211 214.0172.0172.0172.0172.0172.0108.0108.0108.0108.0108.0028.0028
221 0.7280.7280.7280.7280.7283.0243.0243.0243.0243.0242.736 0.84
231 .0255.0255.0255.0255.0294.0576.0576.0576.0576.0576.0486.0392
241 .0372.0372.0372.0372.0412.0864.0864.0864.0864.0864.08640.049
251 .0451.0451.0451.04510.049.0907.0907.09070.0950.0950.095.0627
271 .0172.0172.0172.0172.0172.0108.0108.0108.0108.0108.0028.0028
272 0.7280.7280.7280.7280.7283.0243.0243.0243.0243.0242.736 0.84
273 .0255.0255.0255.0255.0294.0576.0576.0576.0576.0576.0486.0392
274 .0372.0372.0372.0372.0412.0864.0864.0864.0864.0864.08640.049
281 .0172.0172.0172.0172.0172.0108.0108.0108.0108.0108.0028.0028
284 .0372.0372.0372.0372.0412.0864.0864.0864.0864.0864.08640.049
313 314.0172.0172.0172.0172.0172.0108.0108.0108.0108.0108.0028.0028
331 .0255.0255.0255.0255.0294.0576.0576.0576.0576.0576.0486.0392
344 .0372.0372.0372.0372.0412.0864.0864.0864.0864.0864.08640.049
END MON-IFLW-CONC

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MON-GRND-CONC

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*** <PLS > Value at start of month for conc of QUAL in groundwater (qty/ft3)
*** x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
11 140.0220.0220.0220.0220.0220.027.0389.0389.0389.0389.0324.0279
21 22.0336.0336.0336.0336.0532.0259.0259.02590.018.0084.0084.0336
31 32.0168.0168.0168.0168.0294.0616.0616.0616.0616.0616.0518.0252
41 42.0126.0126.0126.0126.0202.0662.0662.0662.0662.0662.0576.0189
51 .0154.0154.0154.0154.0154.0459.0459.0459.0459.0459.0428.0175
71 0.0220.0220.0220.0220.0220.027.0389.0389.0389.0389.0324.0279
72 .0336.0336.0336.0336.0532.0259.0259.02590.018.0084.0084.0336
73 .0168.0168.0168.0168.0294.0616.0616.0616.0616.0616.0518.0252
74 .0126.0126.0126.0126.0202.0662.0662.0662.0662.0662.0576.0189
81 0.0220.0220.0220.0220.0220.027.0389.0389.0389.0389.0324.0279
84 .0126.0126.0126.0126.0202.0662.0662.0662.0662.0662.0576.0189
211 2140.0220.0220.0220.0220.0220.027.0389.0389.0389.0389.0324.0279
221 .0336.0336.0336.0336.0532.0259.0259.02590.018.0084.0084.0336
231 .0168.0168.0168.0168.0294.0616.0616.0616.0616.0616.0518.0252

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241 .0126.0126.0126.0126.0202.0662.0662.0662.0662.0662.0576.0189
251 .0154.0154.0154.0154.0154.0459.0459.0459.0459.0459.0428.0175
271 0.0220.0220.0220.0220.0220.027.0389.0389.0389.0389.0324.0279
272 .0336.0336.0336.0336.0532.0259.0259.0259.018.0084.0084.0336
273 .0168.0168.0168.0168.0294.0616.0616.0616.0616.0616.0518.0252
274 .0126.0126.0126.0126.0202.0662.0662.0662.0662.0662.0576.0189
281 0.0220.0220.0220.0220.0220.027.0389.0389.0389.0389.0324.0279
284 .0126.0126.0126.0126.0202.0662.0662.0662.0662.0662.0576.0189
313 3140.0220.0220.0220.0220.0220.027.0389.0389.0389.0389.0324.0279
331 .0168.0168.0168.0168.0294.0616.0616.0616.0616.0616.0518.0252
344 .0126.0126.0126.0126.0202.0662.0662.0662.0662.0662.0576.0189
END MON-GRND-CONC

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QUAL-PROPS

\*\*\* <PLS > Identifiers and Flags

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*** x - x QUALID QTID QSD VPFW VPFS QSO VQO QIFW VIQC QAGW VAQC
11 344BOD/Organics LBS 0 0 0 2 1 1 3 1 3
END QUAL-PROPS

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QUAL-INPUT

\*\*\* Storage on surface and nonseasonal parameters

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*** SQO POTFW POTFS ACQOP SQOLIM WSQOP IOQC AOQC
*** <PLS > qty/ac qty/ton qty/ton qty/ ac.day
*** x - x
11 14 0. 0. 0. 0. 1.e-6 0.7 0. 0.
21 22 0. 0. 0. 0. 1.e-6 0.5 0. 0.
31 32 0. 0. 0. 0. 1.e-6 0.6 0. 0.
41 51 0. 0. 0. 0. 1.e-6 0.5 0. 0.
71 0. 0. 0. 0. 1.e-6 0.7 0. 0.
72 0. 0. 0. 0. 1.e-6 0.5 0. 0.
73 0. 0. 0. 0. 1.e-6 0.6 0. 0.
74 0. 0. 0. 0. 1.e-6 0.5 0. 0.
81 0. 0. 0. 0. 1.e-6 0.7 0. 0.
84 0. 0. 0. 0. 1.e-6 0.5 0. 0.
211 214 0. 0. 0. 0. 1.e-6 0.7 0. 0.
221 0. 0. 0. 0. 1.e-6 0.5 0. 0.
231 0. 0. 0. 0. 1.e-6 0.6 0. 0.
241 251 0. 0. 0. 0. 1.e-6 0.5 0. 0.
271 0. 0. 0. 0. 1.e-6 0.7 0. 0.
272 0. 0. 0. 0. 1.e-6 0.5 0. 0.
273 0. 0. 0. 0. 1.e-6 0.6 0. 0.
274 0. 0. 0. 0. 1.e-6 0.5 0. 0.
281 0. 0. 0. 0. 1.e-6 0.7 0. 0.
284 0. 0. 0. 0. 1.e-6 0.5 0. 0.
313 314 0. 0. 0. 0. 1.e-6 0.7 0. 0.
331 0. 0. 0. 0. 1.e-6 0.6 0. 0.
344 0. 0. 0. 0. 1.e-6 0.5 0. 0.
END QUAL-INPUT

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MON-ACCUM

\*\*\* <PLS > Value at start of each month for accum rate of QUALOF (lb/ac.day)

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*** x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
11 14 2.34 2.34 5.2 6.4 8.4 8.4 8.4 8.4 12 12 12 4.5
21 22 1.05 1.05 1.05 1.25 1.5 1.5 1.5 1.5 1.65 1.65 3.3 3.3
31 32 4.62 4.62 4.62 5.28 5.94 5.94 5.94 5.94 5.94 4.62 4.62 4.62
41 42.2805.2805.2805.3245.3795.3795.3795.3795.3795.2805.2805.2805
51 .3465.3465.3465.5170.5720.5720.5720.5720.495.3465.3465.3465
71 2.34 2.34 5.2 6.4 8.4 8.4 8.4 8.4 12 12 12 4.5
72 1.05 1.05 1.05 1.25 1.5 1.5 1.5 1.5 1.65 1.65 3.3 3.3
73 4.62 4.62 4.62 5.28 5.94 5.94 5.94 5.94 5.94 4.62 4.62 4.62
74 .2805.2805.2805.319.3795.3795.3795.3795.3795.2805.2805.2805
81 2.34 2.34 5.2 6.4 8.4 8.4 8.4 8.4 12 12 12 4.5
84 .2805.2805.2805.319.3795.3795.3795.3795.3795.2805.2805.2805
211 214 2.34 2.34 5.2 6.4 8.4 8.4 8.4 8.4 12 12 12 4.5
221 1.05 1.05 1.05 1.25 1.5 1.5 1.5 1.5 1.65 1.65 3.3 3.3
231 4.62 4.62 4.62 5.28 5.94 5.94 5.94 5.94 5.94 4.62 4.62 4.62
241 .2805.2805.2805.3245.3795.3795.3795.3795.3795.2805.2805.2805
251 .3465.3465.3465.5170.5720.5720.5720.5720.495.3465.3465.3465
271 2.34 2.34 5.2 6.4 8.4 8.4 8.4 8.4 12 12 12 4.5
272 1.05 1.05 1.05 1.25 1.5 1.5 1.5 1.5 1.65 1.65 3.3 3.3
273 4.62 4.62 4.62 5.28 5.94 5.94 5.94 5.94 5.94 4.62 4.62 4.62
274 .2805.2805.2805.319.3795.3795.3795.3795.3795.2805.2805.2805
281 2.34 2.34 5.2 6.4 8.4 8.4 8.4 8.4 12 12 12 4.5
284 .2805.2805.2805.319.3795.3795.3795.3795.3795.2805.2805.2805
313 3140.7020.702 1.56 1.92 2.52 2.52 2.52 2.52 3.6 3.6 3.6 1.35
331 1.3861.3861.3861.5841.7821.7821.7821.7821.7821.3861.3861.386

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344 .0842.0842.0842.0974.1138.1138.1138.1138.1138.0842.0842.0842  
 END MON-ACCUM

MON-SQOLIM

\*\*\* <PLS > Value at start of month for limiting storage of QUALOF (lb/ac)  
 \*\*\* x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC  
 11 14 27 27 60 72 96 96 96 96 144 144 144 43.2  
 21 22 30 30 30 42 54 54 54 54 60 60 60 54  
 31 32 66 66 66 74.8 85.8 85.8 85.8 85.8 112.2 112.2 66 66  
 41 42 4.95 4.95 4.95 5.5 6.27 6.27 6.27 6.27 7.26 7.26 4.95 4.95  
 51 7.92 7.92 7.92 9.24 10.56 10.56 10.56 10.56 13.2 13.2 7.92 7.92  
 71 27 27 60 72 96 96 96 96 144 144 144 43.2  
 72 30 30 30 42 54 54 54 54 60 60 60 54  
 73 66 66 66 74.8 85.8 85.8 85.8 85.8 112.2 112.2 66 66  
 74 4.95 4.95 4.95 5.5 6.27 6.27 6.27 6.27 7.26 7.26 4.95 4.95  
 81 27 27 60 72 96 96 96 96 144 144 144 43.2  
 84 4.95 4.95 4.95 5.5 6.27 6.27 6.27 6.27 7.26 7.26 4.95 4.95  
 211 214 27 27 60 72 96 96 96 96 144 144 144 43.2  
 221 30 30 30 42 54 54 54 54 60 60 60 54  
 231 66 66 66 74.8 85.8 85.8 85.8 85.8 112.2 112.2 66 66  
 241 4.95 4.95 4.95 5.5 6.27 6.27 6.27 6.27 7.26 7.26 4.95 4.95  
 251 7.92 7.92 7.92 9.24 10.56 10.56 10.56 10.56 13.2 13.2 7.92 7.92  
 271 27 27 60 72 96 96 96 96 144 144 144 43.2  
 272 30 30 30 42 54 54 54 54 60 60 60 54  
 273 66 66 66 74.8 85.8 85.8 85.8 85.8 112.2 112.2 66 66  
 274 4.95 4.95 4.95 5.5 6.27 6.27 6.27 6.27 7.26 7.26 4.95 4.95  
 281 27 27 60 72 96 96 96 96 144 144 144 43.2  
 284 4.95 4.95 4.95 5.5 6.27 6.27 6.27 6.27 7.26 7.26 4.95 4.95  
 313 314 8.1 8.1 18 21.6 28.8 28.8 28.8 28.8 43.2 43.2 43.2 12.96  
 331 19.8 19.8 19.8 22.4 25.7 25.7 25.7 25.7 33.3 33.3 19.8 19.8  
 344 1.4851 1.4851 1.485 1.651 1.8811 1.8811 1.8811 1.8812 1.782 1.781 1.4851 1.485  
 END MON-SQOLIM

MON-IFLW-CONC

\*\*\* <PLS > Conc of QUAL in interflow outflow for each month (qty/ft3)  
 \*\*\* x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC  
 11 142.3762 3762.3764 3764.104 5.94 5.94 5.94 5.94 5.948 3167.1283 564  
 21 2223.7623 7623.7627 72 3.e1 3.e1 3.e1 3.e1 131.6831 68 37.8 30.6  
 31 324.3564 3564.3565 4456.5346 5346.5346 5348.7128 7124.3564 356  
 41 427.1287 1287.1287 614 1.e1 1.e1 1.e1 1.e1 1.e1 1.e1 8.91 8.91  
 51 8.91 8.91 8.91 1.e1 1.e1 1.e1 1.e1 1.e1 2.e1 2.e1 8.91 8.91  
 71 2.3762 3762.3764 104 5.94 5.94 5.94 5.94 5.948 3167.1283 564  
 72 23.7623 7623.7627 72 3.e1 3.e1 3.e1 3.e1 131.6831 68 37.8 30.6  
 73 4.3564 3564.3565 4456.5346 5346.5346 5348.7128 7124.3564 356  
 74 7.1287 1287.1287 614 1.e1 1.e1 1.e1 1.e1 1.e1 1.e1 8.91 8.91  
 81 2.3762 3762.3764 104 5.94 5.94 5.94 5.94 5.948 3167.1283 564  
 84 7.1287 1287.1287 614 1.e1 1.e1 1.e1 1.e1 1.e1 1.e1 8.91 8.91  
 211 214 2.3762 3762.3764 104 5.94 5.94 5.94 5.94 5.948 3167.1283 564  
 221 23.7623 7623.7627 72 3.e1 3.e1 3.e1 3.e1 131.6831 68 37.8 30.6  
 231 4.3564 3564.3565 4456.5346 5346.5346 5348.7128 7124.3564 356  
 241 7.1287 1287.1287 614 1.e1 1.e1 1.e1 1.e1 1.e1 1.e1 8.91 8.91  
 251 8.91 8.91 8.91 1.e1 1.e1 1.e1 1.e1 1.e1 2.e1 2.e1 8.91 8.91  
 271 2.3762 3762.3764 104 5.94 5.94 5.94 5.94 5.948 3167.1283 564  
 272 23.7623 7623.7627 72 3.e1 3.e1 3.e1 3.e1 131.6831 68 37.8 30.6  
 273 4.3564 3564.3565 4456.5346 5346.5346 5348.7128 7124.3564 356  
 274 7.1287 1287.1287 614 1.e1 1.e1 1.e1 1.e1 1.e1 1.e1 8.91 8.91  
 281 2.3762 3762.3764 104 5.94 5.94 5.94 5.94 5.948 3167.1283 564  
 284 7.1287 1287.1287 614 1.e1 1.e1 1.e1 1.e1 1.e1 1.e1 8.91 8.91  
 313 314 2.3762 3762.3764 104 5.94 5.94 5.94 5.94 5.948 3167.1283 564  
 331 4.3564 3564.3565 4456.5346 5346.5346 5348.7128 7124.3564 356  
 344 7.1287 1287.1287 614 1.e1 1.e1 1.e1 1.e1 1.e1 1.e1 8.91 8.91  
 END MON-IFLW-CONC

MON-GRND-CONC

\*\*\* <PLS > Value at start of month for conc of QUAL in groundwater (qty/ft3)  
 \*\*\* x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC  
 11 14 2.97 2.97 2.97 3.96 3.e0 3.e0 3.e0 3.e0 3.e0 3.861 2.97 2.97  
 21 2213.8613 8613.8615 84 2.e1 2.e1 2.e1 2.e1 117.8217 8213.8613 86  
 31 32 3.96 3.96 3.96 4.953 8613.8613 8613.8615 1485.148 3.96 3.96  
 41 42 3.e0 3.e0 3.e0 3.807 2.97 2.97 2.97 2.973 5643.564 3.e0 3.e0  
 51 4.4554 4554.4555 4274.1584 1584.1584 1584.7524 7524.4554 455  
 71 2.97 2.97 2.97 3.96 3.e0 3.e0 3.e0 3.e0 3.e0 3.861 2.97 2.97  
 72 13.8613 8613.8615 84 2.e1 2.e1 2.e1 2.e1 117.8217 8213.8613 86  
 73 3.96 3.96 3.96 4.953 8613.8613 8613.8615 1485.148 3.96 3.96  
 74 3.e0 3.e0 3.e0 3.807 2.97 2.97 2.97 2.973 5643.564 3.e0 3.e0  
 81 2.97 2.97 2.97 3.96 3.e0 3.e0 3.e0 3.e0 3.e0 3.861 2.97 2.97

```

84      3.e0 3.e0 3.e03.807 2.97 2.97 2.97 2.973.5643.564 3.e0 3.e0

211 214 2.97 2.97 2.97 3.96 3.e0 3.e0 3.e0 3.e0 3.e03.861 2.97 2.97
221      13.8613.8613.8615.84 2.e1 2.e1 2.e1 2.e117.8217.8213.8613.86
231      3.96 3.96 3.96 4.953.8613.8613.8613.8615.1485.148 3.96 3.96
241      3.e0 3.e0 3.e03.807 2.97 2.97 2.97 2.973.5643.564 3.e0 3.e0
251      4.4554.4554.4555.4274.1584.1584.1584.1584.7524.7524.4554.455
271      2.97 2.97 2.97 3.96 3.e0 3.e0 3.e0 3.e0 3.e03.861 2.97 2.97
272      13.8613.8613.8615.84 2.e1 2.e1 2.e1 2.e117.8217.8213.8613.86
273      3.96 3.96 3.96 4.953.8613.8613.8613.8615.1485.148 3.96 3.96
274      3.e0 3.e0 3.e03.807 2.97 2.97 2.97 2.973.5643.564 3.e0 3.e0
281      2.97 2.97 2.97 3.96 3.e0 3.e0 3.e0 3.e0 3.e03.861 2.97 2.97
284      3.e0 3.e0 3.e03.807 2.97 2.97 2.97 2.973.5643.564 3.e0 3.e0
313 314 2.97 2.97 2.97 3.96 3.e0 3.e0 3.e0 3.e0 3.e03.861 2.97 2.97
331      3.96 3.96 3.96 4.953.8613.8613.8613.8615.1485.148 3.96 3.96
344      3.e0 3.e0 3.e03.807 2.97 2.97 2.97 2.973.5643.564 3.e0 3.e0
END MON-GRND-CONC

```

QUAL-PROPS

```

*** <PLS > Identifiers and Flags
*** x - x      QUALID      QTID  QSD  VPFW  VPFS  QSO  VQO  QIFW  VIQC  QAGW  VAQC
      11 344Alkalinity      LBS    0    0    0    2    1    1    3    1    3
END QUAL-PROPS

```

QUAL-INPUT

```

***      Storage on surface and nonseasonal parameters
***      SQO  POTFW  POTFS  ACQOP  SQOLIM  WSQOP  IOQC  AOQC
*** <PLS > qty/ac qty/ton qty/ton      qty/      qty/ac      in/hr  qty/ft3  qty/ft3
*** x - x      ac.day
      11 14      2.    0.    0.    0.    1.e-6    0.7    0.    0.
      21 22      2.    0.    0.    0.    1.e-6    0.5    0.    0.
      31 32      2.    0.    0.    0.    1.e-6    0.6    0.    0.
      41 51      2.    0.    0.    0.    1.e-6    0.5    0.    0.
      71      2.    0.    0.    0.    1.e-6    0.7    0.    0.
      72      2.    0.    0.    0.    1.e-6    0.5    0.    0.
      73      2.    0.    0.    0.    1.e-6    0.6    0.    0.
      74      2.    0.    0.    0.    1.e-6    0.5    0.    0.
      81      2.    0.    0.    0.    1.e-6    0.7    0.    0.
      84      2.    0.    0.    0.    1.e-6    0.5    0.    0.
      211 214    2.    0.    0.    0.    1.e-6    0.7    0.    0.
      221      2.    0.    0.    0.    1.e-6    0.5    0.    0.
      231      2.    0.    0.    0.    1.e-6    0.6    0.    0.
      241 251    2.    0.    0.    0.    1.e-6    0.5    0.    0.
      271      2.    0.    0.    0.    1.e-6    0.7    0.    0.
      272      2.    0.    0.    0.    1.e-6    0.5    0.    0.
      273      2.    0.    0.    0.    1.e-6    0.6    0.    0.
      274      2.    0.    0.    0.    1.e-6    0.5    0.    0.
      281      2.    0.    0.    0.    1.e-6    0.7    0.    0.
      284      2.    0.    0.    0.    1.e-6    0.5    0.    0.
      313 314    2.    0.    0.    0.    1.e-6    0.7    0.    0.
      331      2.    0.    0.    0.    1.e-6    0.6    0.    0.
      344      2.    0.    0.    0.    1.e-6    0.5    0.    0.
END QUAL-INPUT

```

MON-ACCUM

```

*** <PLS > Value at start of each month for accum rate of QUALOF (lb/ac.day)
*** x - x      JAN  FEB  MAR  APR  MAY  JUN  JUL  AUG  SEP  OCT  NOV  DEC
      11 140.0120.0120.0120.0140.0140.0140.0140.0140.0140.0120.0120.012
      21 220.0420.0420.0420.0440.0440.0440.0440.0440.0440.0420.0420.042
      31 320.0120.0120.0120.0140.0140.0140.0140.0140.0140.0120.0120.012
      41 420.0160.0160.0160.0170.0170.0170.0170.0170.0170.0160.0160.016
      51      0.0210.0210.0210.0220.0220.0220.0220.0220.0220.0210.0210.021
      71      0.0120.0120.0120.0140.0140.0140.0140.0140.0140.0120.0120.012
      72      0.0420.0420.0420.0440.0440.0440.0440.0440.0440.0420.0420.042
      73      0.0120.0120.0120.0140.0140.0140.0140.0140.0140.0120.0120.012
      74      0.0160.0160.0160.0170.0170.0170.0170.0170.0170.0160.0160.016
      81      0.0120.0120.0120.0140.0140.0140.0140.0140.0140.0120.0120.012
      84      0.0160.0160.0160.0170.0170.0170.0170.0170.0170.0160.0160.016
      211 2140.0120.0120.0120.0140.0140.0140.0140.0140.0140.0120.0120.012
      221      0.0420.0420.0420.0440.0440.0440.0440.0440.0440.0420.0420.042
      231      0.0120.0120.0120.0140.0140.0140.0140.0140.0140.0120.0120.012
      241      0.0160.0160.0160.0170.0170.0170.0170.0170.0170.0160.0160.016
      251      0.0210.0210.0210.0220.0220.0220.0220.0220.0220.0210.0210.021
      271      0.0120.0120.0120.0140.0140.0140.0140.0140.0140.0120.0120.012
      272      0.0420.0420.0420.0440.0440.0440.0440.0440.0440.0420.0420.042
      273      0.0120.0120.0120.0140.0140.0140.0140.0140.0140.0120.0120.012

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274 0.0160.0160.0160.0170.0170.0170.0170.0170.0170.0160.0160.016  
 281 0.0120.0120.0120.0140.0140.0140.0140.0140.0140.0120.0120.012  
 284 0.0160.0160.0160.0170.0170.0170.0170.0170.0170.0160.0160.016  
 313 3310.0120.0120.0120.0140.0140.0140.0140.0140.0140.0120.0120.012  
 344 0.0160.0160.0160.0170.0170.0170.0170.0170.0170.0160.0160.016  
 END MON-ACCUM

MON-SQOLIM

\*\*\* <PLS > Value at start of month for limiting storage of QUALOF (lb/ac)  
 \*\*\* x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC  
 11 14 0.06 0.06 0.06 0.08 0.08 0.08 0.08 0.08 0.12 0.12 0.06 0.06  
 21 22 0.2 0.2 0.2 0.2 0.2 0.2 0.22 0.22 0.22 0.2 0.2 0.2 0.2  
 31 32 0.12 0.12 0.12 0.12 0.08 0.08 0.08 0.08 0.12 0.12 0.12 0.12  
 41 42 0.13 0.13 0.13 0.13 0.13 0.14 0.14 0.14 0.13 0.13 0.13 0.13  
 51 0.17 0.17 0.17 0.17 0.17 0.18 0.18 0.18 0.17 0.17 0.17 0.17  
 71 0.12 0.12 0.12 0.12 0.08 0.08 0.08 0.08 0.12 0.12 0.12 0.12  
 72 0.2 0.2 0.2 0.2 0.2 0.22 0.22 0.22 0.2 0.2 0.2 0.2  
 73 0.12 0.12 0.12 0.12 0.08 0.08 0.08 0.08 0.12 0.12 0.12 0.12  
 74 0.13 0.13 0.13 0.13 0.13 0.14 0.14 0.14 0.13 0.13 0.13 0.13  
 81 0.12 0.12 0.12 0.12 0.08 0.08 0.08 0.08 0.12 0.12 0.12 0.12  
 84 0.13 0.13 0.13 0.13 0.13 0.14 0.14 0.14 0.13 0.13 0.13 0.13  
 211 214 0.06 0.06 0.06 0.08 0.08 0.08 0.08 0.08 0.12 0.12 0.06 0.06  
 221 0.2 0.2 0.2 0.2 0.2 0.22 0.22 0.22 0.2 0.2 0.2 0.2  
 231 0.12 0.12 0.12 0.12 0.08 0.08 0.08 0.08 0.12 0.12 0.12 0.12  
 241 0.13 0.13 0.13 0.13 0.13 0.14 0.14 0.14 0.13 0.13 0.13 0.13  
 251 0.17 0.17 0.17 0.17 0.17 0.18 0.18 0.18 0.17 0.17 0.17 0.17  
 271 0.12 0.12 0.12 0.12 0.08 0.08 0.08 0.08 0.12 0.12 0.12 0.12  
 272 0.2 0.2 0.2 0.2 0.2 0.22 0.22 0.22 0.2 0.2 0.2 0.2  
 273 0.12 0.12 0.12 0.12 0.08 0.08 0.08 0.08 0.12 0.12 0.12 0.12  
 274 0.13 0.13 0.13 0.13 0.13 0.14 0.14 0.14 0.13 0.13 0.13 0.13  
 281 0.12 0.12 0.12 0.12 0.08 0.08 0.08 0.08 0.12 0.12 0.12 0.12  
 284 0.13 0.13 0.13 0.13 0.13 0.14 0.14 0.14 0.13 0.13 0.13 0.13  
 313 314 0.06 0.06 0.06 0.08 0.08 0.08 0.08 0.08 0.12 0.12 0.06 0.06  
 331 0.12 0.12 0.12 0.12 0.08 0.08 0.08 0.08 0.12 0.12 0.12 0.12  
 344 0.13 0.13 0.13 0.13 0.13 0.14 0.14 0.14 0.13 0.13 0.13 0.13  
 END MON-SQOLIM

MON-IFLW-CONC

\*\*\* <PLS > Conc of QUAL in interflow outflow for each month (qty/ft3)  
 \*\*\* x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC  
 11 14 12 12 18 20 24 24 24 20 20 20 16 14  
 21 22 64 64 72 72 76 76 76 76 72 68 64  
 31 32 4.2 4.2 8.4 11.2 15.4 15.4 15.4 15.4 8.4 5.6 4.2  
 41 42 2.5 2.5 3.5 7.6 9 9 9 9 9 5 2.5  
 51 5 5.2 6.5 15 15 15 15 15 15 13 10 5  
 71 12 12 18 20 24 24 24 20 20 20 16 14  
 72 64 64 72 72 76 76 76 76 72 68 64  
 73 4.2 4.2 8.4 11.2 15.4 15.4 15.4 15.4 8.4 5.6 4.2  
 74 2.5 2.5 3.5 7.6 9 9 9 9 9 5 2.5  
 81 12 12 18 20 24 24 24 20 20 20 16 14  
 84 2.5 2.5 3.5 7.6 9 9 9 9 9 5 2.5  
 211 214 12 12 18 20 24 24 24 20 20 20 16 14  
 221 64 64 72 72 76 76 76 76 72 68 64  
 231 4.2 4.2 8.4 11.2 15.4 15.4 15.4 15.4 8.4 5.6 4.2  
 241 2.5 2.5 3.5 7.6 9 9 9 9 9 5 2.5  
 251 5 5.2 6.5 15 15 15 15 15 15 13 10 5  
 271 12 12 18 20 24 24 24 20 20 20 16 14  
 272 64 64 72 72 76 76 76 76 72 68 64  
 273 4.2 4.2 8.4 11.2 15.4 15.4 15.4 15.4 8.4 5.6 4.2  
 274 2.5 2.5 3.5 7.6 9 9 9 9 9 5 2.5  
 281 12 12 18 20 24 24 24 20 20 20 16 14  
 284 2.5 2.5 3.5 7.6 9 9 9 9 9 5 2.5  
 313 314 12 12 18 20 24 24 24 20 20 20 16 14  
 331 4.2 4.2 8.4 11.2 15.4 15.4 15.4 15.4 8.4 5.6 4.2  
 344 2.5 2.5 3.5 7.6 9 9 9 9 9 5 2.5  
 END MON-IFLW-CONC

MON-GRND-CONC

\*\*\* <PLS > Value at start of month for conc of QUAL in groundwater (qty/ft3)  
 \*\*\* x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC  
 11 14 39.6 39.6 39.6 37.4 42.5 51 51 51 51 52.7 52.7 51  
 21 22 105 105 105 108 111 152 156 158 156 156 150  
 31 32 45.5 45.5 48.1 50.7 53.3 55.9 61.1 61.1 61.1 62.4 62.4 61.1  
 41 42 17.4 17.4 18 18.6 19.2 20.4 21.6 21.6 21.6 21.6 21 21  
 51 46.7546.75 48.4 45 46 46 46 46 46 45 49.5  
 71 39.6 39.6 39.6 37.4 42.5 51 51 51 51 52.7 52.7 51

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72      105 105 105 108 111 152 156 158 158 156 156 150
73      45.5 45.5 48.1 50.7 53.3 55.9 61.1 61.1 61.1 62.4 62.4 61.1
74      17.4 17.4 18 18.6 19.2 20.4 21.6 21.6 21.6 21.6 21 21

81      39.6 39.6 39.6 37.4 42.5 51 51 51 51 52.7 52.7 51
84      17.4 17.4 18 18.6 19.2 20.4 21.6 21.6 21.6 21.6 21 21
211 214 39.6 39.6 39.6 37.4 42.5 51 51 51 51 52.7 52.7 51
221      105 105 105 108 111 152 156 158 158 156 156 150
231      45.5 45.5 48.1 50.7 53.3 55.9 61.1 61.1 61.1 62.4 62.4 61.1
241      17.4 17.4 18 18.6 19.2 20.4 21.6 21.6 21.6 21.6 21 21
251      46.7546.75 48.4 45 46 46 46 46 46 46 45 49.5
271      39.6 39.6 39.6 37.4 42.5 51 51 51 51 52.7 52.7 51
272      105 105 105 108 111 152 156 158 158 156 156 150
273      45.5 45.5 48.1 50.7 53.3 55.9 61.1 61.1 61.1 62.4 62.4 61.1
274      17.4 17.4 18 18.6 19.2 20.4 21.6 21.6 21.6 21.6 21 21
281      39.6 39.6 39.6 37.4 42.5 51 51 51 51 52.7 52.7 51
284      17.4 17.4 18 18.6 19.2 20.4 21.6 21.6 21.6 21.6 21 21
313 314 39.6 39.6 39.6 37.4 42.5 51 51 51 51 52.7 52.7 51
331      45.5 45.5 48.1 50.7 53.3 55.9 61.1 61.1 61.1 62.4 62.4 61.1
344      17.4 17.4 18 18.6 19.2 20.4 21.6 21.6 21.6 21.6 21 21
END MON-GRND-CONC

```

QUAL-PROPS

```

*** <PLS > Identifiers and Flags
*** x - x QUALID QTID QSD VPFW VPFS QSO VQO QIFW VIQC QAGW VAQC
11 344Silica LBS 0 0 0 2 1 1 3 1 3
END QUAL-PROPS

```

QUAL-INPUT

```

*** Storage on surface and nonseasonal parameters
*** SQO POTFW POTFS ACQOP SQOLIM WSQOP IOQC AOQC
*** <PLS > qty/ac qty/ton qty/ton qty/ ac.day qty/ac in/hr qty/ft3 qty/ft3
*** x - x
11 14 0. 0. 0. 0. 1.e-6 0.7 0. 0.
21 22 0. 0. 0. 0. 1.e-6 0.5 0. 0.
31 32 0. 0. 0. 0. 1.e-6 0.6 0. 0.
41 51 0. 0. 0. 0. 1.e-6 0.5 0. 0.
71 0. 0. 0. 0. 1.e-6 0.7 0. 0.
72 0. 0. 0. 0. 1.e-6 0.5 0. 0.
73 0. 0. 0. 0. 1.e-6 0.6 0. 0.
74 0. 0. 0. 0. 1.e-6 0.5 0. 0.
81 0. 0. 0. 0. 1.e-6 0.7 0. 0.
84 0. 0. 0. 0. 1.e-6 0.5 0. 0.
211 214 0. 0. 0. 0. 1.e-6 0.7 0. 0.
221 0. 0. 0. 0. 1.e-6 0.5 0. 0.
231 0. 0. 0. 0. 1.e-6 0.6 0. 0.
241 251 0. 0. 0. 0. 1.e-6 0.5 0. 0.
271 0. 0. 0. 0. 1.e-6 0.7 0. 0.
272 0. 0. 0. 0. 1.e-6 0.5 0. 0.
273 0. 0. 0. 0. 1.e-6 0.6 0. 0.
274 0. 0. 0. 0. 1.e-6 0.5 0. 0.
281 0. 0. 0. 0. 1.e-6 0.7 0. 0.
284 0. 0. 0. 0. 1.e-6 0.5 0. 0.
313 314 0. 0. 0. 0. 1.e-6 0.7 0. 0.
331 0. 0. 0. 0. 1.e-6 0.6 0. 0.
344 0. 0. 0. 0. 1.e-6 0.5 0. 0.
END QUAL-INPUT

```

MON-ACCUM

```

*** <PLS > Value at start of each month for accum rate of QUALOF (lb/ac.day)
*** x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
11 344 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
END MON-ACCUM

```

MON-SQOLIM

```

*** <PLS > Value at start of month for limiting storage of QUALOF (lb/ac)
*** x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
11 344 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
END MON-SQOLIM

```

MON-IFLW-CONC

```

*** <PLS > Conc of QUAL in interflow outflow for each month (qty/ft3)
*** x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
11 344 7. 7. 9. 9. 11. 13. 13. 13. 13. 13. 11. 9.
END MON-IFLW-CONC

```

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MON-GRND-CONC  
 \*\*\* <PLS > Value at start of month for conc of QUAL in groundwater (qty/ft3)  
 \*\*\* x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC  
 11 344 11. 11. 12.5 14. 15.5 17. 18. 18. 18. 18. 18. 14.  
 END MON-GRND-CONC

QUAL-PROPS  
 \*\*\* <PLS > Identifiers and Flags  
 \*\*\* x - x QUALID QTID QSD VPFW VPFS QSO VQO QIFW VIQC QAGW VAQC  
 11 344E-Coli 10^9 0 0 0 2 1 1 1 1 1 1  
 END QUAL-PROPS

QUAL-INPUT  
 \*\*\* Storage on surface and nonseasonal parameters  
 \*\*\* SQO POTFW POTFS ACQOP SQOLIM WSQOP IOQC AOQC  
 \*\*\* <PLS > qty/ac qty/ton qty/ton qty/ ac.day qty/ac in/hr qty/ft3 qty/ft3  
 \*\*\* x - x  
 11 344 0. 0. 0. 0. 1.e-6 2. 0. 0.  
 END QUAL-INPUT

MON-ACCUM  
 \*\*\* <PLS > Value at start of each month for accum rate of QUALOF (lb/ac.day)  
 \*\*\* x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC  
 11 14 0.2 0.2 0.2 0.2 0.2 7.2 7.2 7.2 7.2 7.2 2.8 0.2  
 21 22 0.37 0.37 0.37 0.37 18.5 92.5 92.5 92.5 92.5 92.5 40.7 40.7  
 31 32 1.2 1.2 1.2 12 12 12 12 12 12 12 12 12 1.2  
 41 42 5 5 5 24 24 24 24 24 24 24 24 5  
 51 10.5 10.5 10.5 45 45 45 45 45 45 45 45 10.5  
 71 0.2 0.2 0.2 0.2 0.2 7.2 7.2 7.2 7.2 7.2 2.8 0.2  
 72 0.37 0.37 0.37 0.37 18.5 92.5 92.5 92.5 92.5 92.5 40.7 40.7  
 73 1.2 1.2 1.2 12 12 12 12 12 12 12 12 1.2  
 74 5 5 5 24 24 24 24 24 24 24 24 5  
 81 0.2 0.2 0.2 0.2 0.2 7.2 7.2 7.2 7.2 7.2 2.8 0.2  
 84 5 5 5 24 24 24 24 24 24 24 24 5  
 211 214 0.2 0.2 0.2 0.2 0.2 7.2 7.2 7.2 7.2 7.2 2.8 0.2  
 221 0.37 0.37 0.37 0.37 18.5 92.5 92.5 92.5 92.5 92.5 40.7 40.7  
 231 1.2 1.2 1.2 12 12 12 12 12 12 12 12 1.2  
 241 5 5 5 24 24 24 24 24 24 24 24 5  
 251 10.5 10.5 10.5 45 45 45 45 45 45 45 45 10.5  
 271 0.2 0.2 0.2 0.2 0.2 7.2 7.2 7.2 7.2 7.2 2.8 0.2  
 272 0.37 0.37 0.37 0.37 18.5 92.5 92.5 92.5 92.5 92.5 40.7 40.7  
 273 1.2 1.2 1.2 12 12 12 12 12 12 12 12 1.2  
 274 5 5 5 24 24 24 24 24 24 24 24 5  
 281 0.2 0.2 0.2 0.2 0.2 7.2 7.2 7.2 7.2 7.2 2.8 0.2  
 284 5 5 5 24 24 24 24 24 24 24 24 5  
 313 314 0.2 0.2 0.2 0.2 0.2 7.2 7.2 7.2 7.2 7.2 2.8 0.2  
 331 1.2 1.2 1.2 12 12 12 12 12 12 12 12 1.2  
 344 5 5 5 24 24 24 24 24 24 24 24 5  
 END MON-ACCUM

MON-SQOLIM  
 \*\*\* <PLS > Value at start of month for limiting storage of QUALOF (lb/ac)  
 \*\*\* x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC  
 11 14 2.5 2.5 2.5 2.5 2.5 90 90 90 90 90 35 2.5  
 21 22 2.4 2.4 2.4 2.4 120 600 600 600 600 600 264 264  
 31 32 12 12 12 120 120 120 120 120 120 120 12  
 41 42 30 30 30 144 144 144 144 144 144 144 30  
 51 63 63 63 270 270 270 270 270 270 270 63  
 71 2.5 2.5 2.5 2.5 2.5 90 90 90 90 90 35 2.5  
 72 2.4 2.4 2.4 2.4 120 600 600 600 600 600 264 264  
 73 12 12 12 120 120 120 120 120 120 120 12  
 74 30 30 30 144 144 144 144 144 144 144 30  
 81 2.5 2.5 2.5 2.5 2.5 90 90 90 90 90 35 2.5  
 84 30 30 30 144 144 144 144 144 144 144 30  
 211 214 2.5 2.5 2.5 2.5 2.5 90 90 90 90 90 35 2.5  
 221 2.4 2.4 2.4 2.4 120 600 600 600 600 600 264 264  
 231 12 12 12 120 120 120 120 120 120 120 12  
 241 30 30 30 144 144 144 144 144 144 144 30  
 251 63 63 63 270 270 270 270 270 270 270 63  
 271 2.5 2.5 2.5 2.5 2.5 90 90 90 90 90 35 2.5  
 272 2.4 2.4 2.4 2.4 120 600 600 600 600 600 264 264  
 273 12 12 12 120 120 120 120 120 120 120 12  
 274 30 30 30 144 144 144 144 144 144 144 30  
 281 2.5 2.5 2.5 2.5 2.5 90 90 90 90 90 35 2.5  
 284 30 30 30 144 144 144 144 144 144 144 30  
 313 314 2.5 2.5 2.5 2.5 2.5 90 90 90 90 90 35 2.5



331 12 12 12 120 120 120 120 120 120 120 120 12  
 344 30 30 30 144 144 144 144 144 144 144 144 30  
 END MON-SQOLIM

MON-IFLW-CONC

\*\*\* <PLS > Conc of QUAL in interflow outflow for each month (qty/ft3)  
 \*\*\* x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC  
 11 148.e-78.e-78.e-78.e-78.e-7.0001.0001.0001.0001.00013.e-58.e-7  
 21 226.e-66.e-66.e-66.e-66.e-6.0036.0036.0036.0036.0036.00066.e-6  
 31 321.e-61.e-61.e-61.e-61.e-6.0001.0001.0001.0001.00013.e-51.e-6  
 41 421.e-61.e-61.e-61.e-61.e-6.0001.0001.0001.0001.00017.e-51.e-6  
 51 3.e-63.e-63.e-63.e-63.e-6.0004.0004.0004.0004.0004.00023.e-6  
 71 8.e-78.e-78.e-78.e-78.e-7.0001.0001.0001.0001.00013.e-58.e-7  
 72 6.e-66.e-66.e-66.e-66.e-6.0036.0036.0036.0036.0036.00066.e-6  
 73 1.e-61.e-61.e-61.e-61.e-6.0001.0001.0001.0001.00013.e-51.e-6  
 74 1.e-61.e-61.e-61.e-61.e-6.0001.0001.0001.0001.00017.e-51.e-6  
 81 8.e-78.e-78.e-78.e-78.e-7.0001.0001.0001.0001.00013.e-58.e-7  
 84 1.e-61.e-61.e-61.e-61.e-6.0001.0001.0001.0001.00017.e-51.e-6  
 211 2148.e-78.e-78.e-78.e-78.e-7.0001.0001.0001.0001.00013.e-58.e-7  
 221 6.e-66.e-66.e-66.e-66.e-6.0036.0036.0036.0036.0036.00066.e-6  
 231 1.e-61.e-61.e-61.e-61.e-6.0001.0001.0001.0001.00013.e-51.e-6  
 241 1.e-61.e-61.e-61.e-61.e-6.0001.0001.0001.0001.00017.e-51.e-6  
 251 3.e-63.e-63.e-63.e-63.e-6.0004.0004.0004.0004.0004.00023.e-6  
 271 8.e-78.e-78.e-78.e-78.e-7.0001.0001.0001.0001.00013.e-58.e-7  
 272 6.e-66.e-66.e-66.e-66.e-6.0036.0036.0036.0036.0036.00066.e-6  
 273 1.e-61.e-61.e-61.e-61.e-6.0001.0001.0001.0001.00013.e-51.e-6  
 274 1.e-61.e-61.e-61.e-61.e-6.0001.0001.0001.0001.00017.e-51.e-6  
 281 8.e-78.e-78.e-78.e-78.e-7.0001.0001.0001.0001.00013.e-58.e-7  
 284 1.e-61.e-61.e-61.e-61.e-6.0001.0001.0001.0001.00017.e-51.e-6  
 313 3148.e-78.e-78.e-78.e-78.e-7.0001.0001.0001.0001.00013.e-58.e-7  
 331 1.e-61.e-61.e-61.e-61.e-6.0001.0001.0001.0001.00013.e-51.e-6  
 344 1.e-61.e-61.e-61.e-61.e-6.0001.0001.0001.0001.00017.e-51.e-6  
 END MON-IFLW-CONC

MON-GRND-CONC

\*\*\* <PLS > Value at start of month for conc of QUAL in groundwater (qty/ft3)  
 \*\*\* x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC  
 11 142.e-72.e-72.e-72.e-72.e-75.e-67.e-67.e-65.e-65.e-62.e-72.e-7  
 21 221.e-51.e-51.e-51.e-51.e-51.e-51.e-51.e-51.e-51.e-51.e-51.e-5  
 31 324.e-64.e-64.e-64.e-64.e-68.e-61.e-51.e-58.e-68.e-64.e-64.e-6  
 41 423.e-63.e-63.e-63.e-63.e-65.e-57.e-57.e-55.e-55.e-53.e-63.e-6  
 51 5.e-65.e-65.e-65.e-65.e-69.e-5.0001.00019.e-59.e-55.e-65.e-6  
 71 2.e-72.e-72.e-72.e-72.e-75.e-67.e-67.e-65.e-65.e-62.e-72.e-7  
 72 1.e-51.e-51.e-51.e-51.e-51.e-51.e-51.e-51.e-51.e-51.e-51.e-5  
 73 4.e-64.e-64.e-64.e-64.e-68.e-61.e-51.e-58.e-68.e-64.e-64.e-6  
 74 3.e-63.e-63.e-63.e-63.e-65.e-57.e-57.e-55.e-55.e-53.e-63.e-6  
 81 2.e-72.e-72.e-72.e-72.e-75.e-67.e-67.e-65.e-65.e-62.e-72.e-7  
 84 3.e-63.e-63.e-63.e-63.e-65.e-57.e-57.e-55.e-55.e-53.e-63.e-6  
 211 2142.e-72.e-72.e-72.e-72.e-75.e-67.e-67.e-65.e-65.e-62.e-72.e-7  
 221 1.e-51.e-51.e-51.e-51.e-51.e-51.e-51.e-51.e-51.e-51.e-51.e-5  
 231 4.e-64.e-64.e-64.e-64.e-68.e-61.e-51.e-58.e-68.e-64.e-64.e-6  
 241 3.e-63.e-63.e-63.e-63.e-65.e-57.e-57.e-55.e-55.e-53.e-63.e-6  
 251 5.e-65.e-65.e-65.e-65.e-69.e-5.0001.00019.e-59.e-55.e-65.e-6  
 271 2.e-72.e-72.e-72.e-72.e-75.e-67.e-67.e-65.e-65.e-62.e-72.e-7  
 272 1.e-51.e-51.e-51.e-51.e-51.e-51.e-51.e-51.e-51.e-51.e-51.e-5  
 273 4.e-64.e-64.e-64.e-64.e-68.e-61.e-51.e-58.e-68.e-64.e-64.e-6  
 274 3.e-63.e-63.e-63.e-63.e-65.e-57.e-57.e-55.e-55.e-53.e-63.e-6  
 281 2.e-72.e-72.e-72.e-72.e-75.e-67.e-67.e-65.e-65.e-62.e-72.e-7  
 284 3.e-63.e-63.e-63.e-63.e-65.e-57.e-57.e-55.e-55.e-53.e-63.e-6  
 313 3142.e-72.e-72.e-72.e-72.e-75.e-67.e-67.e-65.e-65.e-62.e-72.e-7  
 331 4.e-64.e-64.e-64.e-64.e-68.e-61.e-51.e-58.e-68.e-64.e-64.e-6  
 344 3.e-63.e-63.e-63.e-63.e-65.e-57.e-57.e-55.e-55.e-53.e-63.e-6  
 END MON-GRND-CONC

QUAL-PROPS

\*\*\* <PLS > Identifiers and Flags  
 \*\*\* x - x QUALID QTID QSD VPFW VPFS QSO VQO QIFW VIQC QAGW VAQC  
 11 344COPPER LBS 1 1 0 0 0 1 3 1 3  
 END QUAL-PROPS

QUAL-INPUT

\*\*\* Storage on surface and nonseasonal parameters  
 \*\*\* SQO POTFW POTFS ACQOP SQOLIM WSQOP IOQC AOQC  
 \*\*\* <PLS > qty/ac qty/ton qty/ton qty/ qty/ac in/hr qty/ft3 qty/ft3  
 \*\*\* x - x ac.day

11 344 0. 0. 0. 0. 1.e-6 0. 0. 0.  
 END QUAL-INPUT

MON-POTFW

\*\*\* <PLS > Value at start of each month for washoff potency factor (lb/ton)  
 \*\*\* x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC  
 11 140.1750.1750.1750.1750.175 0.35 0.35 0.35 0.35 0.35 0.35 0.35  
 21 22 0.3 0.3 0.3 0.3 0.3 0.7 0.7 0.7 0.7 0.70.3250.325  
 31 32 0.22 0.22 0.22 0.22 0.220.1650.1650.1650.1650.165 0.22  
 41 42.1375.1375.1375.1375.1375 0.11 0.11 0.11 0.11 0.11 0.11.1375  
 51 .1375.1375.1375.1375.1375 0.11 0.11 0.11 0.11 0.11 0.11.1625  
 71 0.1750.1750.1750.1750.175 0.35 0.35 0.35 0.35 0.35 0.35 0.35  
 72 0.3 0.3 0.3 0.3 0.3 0.7 0.7 0.7 0.7 0.70.3250.325  
 73 0.22 0.22 0.22 0.22 0.220.1650.1650.1650.1650.165 0.22  
 74 .1375.1375.1375.1375.1375 0.11 0.11 0.11 0.11 0.11 0.11.1375  
 81 0.1750.1750.1750.1750.175 0.35 0.35 0.35 0.35 0.35 0.35 0.35  
 84 .1375.1375.1375.1375.1375 0.11 0.11 0.11 0.11 0.11 0.11.1375  
 211 2140.1750.1750.1750.1750.175 0.35 0.35 0.35 0.35 0.35 0.35 0.35  
 221 0.3 0.3 0.3 0.3 0.3 0.7 0.7 0.7 0.7 0.70.3250.325  
 231 0.22 0.22 0.22 0.22 0.22 0.220.1650.1650.1650.1650.165 0.22  
 241 .1375.1375.1375.1375.1375 0.11 0.11 0.11 0.11 0.11 0.11.1375  
 251 .1375.1375.1375.1375.1375 0.11 0.11 0.11 0.11 0.11 0.11.1625  
 271 0.1750.1750.1750.1750.175 0.35 0.35 0.35 0.35 0.35 0.35 0.35  
 272 0.3 0.3 0.3 0.3 0.3 0.7 0.7 0.7 0.7 0.70.3250.325  
 273 0.22 0.22 0.22 0.22 0.22 0.220.1650.1650.1650.1650.165 0.22  
 274 .1375.1375.1375.1375.1375 0.11 0.11 0.11 0.11 0.11 0.11.1375  
 281 0.1750.1750.1750.1750.175 0.35 0.35 0.35 0.35 0.35 0.35 0.35  
 284 .1375.1375.1375.1375.1375 0.11 0.11 0.11 0.11 0.11 0.11.1375  
 313 314 0.35 0.35 0.35 0.35 0.35 0.7 0.7 0.7 0.7 0.7 0.7 0.7  
 331 0.44 0.44 0.44 0.44 0.44 0.33 0.33 0.33 0.33 0.33 0.33 0.44  
 344 0.2750.2750.2750.2750.275 0.22 0.22 0.22 0.22 0.22 0.220.275  
 END MON-POTFW

MON-IFLW-CONC

\*\*\* <PLS > Conc of QUAL in interflow outflow for each month (qty/ft3)  
 \*\*\* x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC  
 11 14.0012.0012.0012.0012.0012.0006.0006.0006.0006.0006.0006.0012  
 21 22.0048.0048.0048.00480.0020.0020.0020.0020.0020.002.0048.0048  
 31 32.0016.0016.0016.0016.0016.0008.0008.0008.0008.0008.0008.0016  
 41 420.0020.0020.0020.0020.0020.0020.0020.0020.0020.0020.0020.002  
 51 0.0040.0040.0040.0040.0040.0040.0040.0040.0040.0040.0040.004  
 71 .0012.0012.0012.0012.0012.0006.0006.0006.0006.0006.0006.0012  
 72 .0048.0048.0048.00480.0020.0020.0020.0020.0020.002.0048.0048  
 73 .0016.0016.0016.0016.0016.0008.0008.0008.0008.0008.0008.0016  
 74 0.0020.0020.0020.0020.0020.0020.0020.0020.0020.0020.0020.002  
 81 .0012.0012.0012.0012.0012.0006.0006.0006.0006.0006.0006.0012  
 84 0.0020.0020.0020.0020.0020.0020.0020.0020.0020.0020.0020.002  
 211 214.0012.0012.0012.0012.0012.0006.0006.0006.0006.0006.0006.0012  
 221 .0048.0048.0048.00480.0020.0020.0020.0020.0020.002.0048.0048  
 231 .0016.0016.0016.0016.0016.0008.0008.0008.0008.0008.0008.0016  
 241 0.0020.0020.0020.0020.0020.0020.0020.0020.0020.0020.0020.002  
 251 0.0040.0040.0040.0040.0040.0040.0040.0040.0040.0040.0040.004  
 271 .0012.0012.0012.0012.0012.0006.0006.0006.0006.0006.0006.0012  
 272 .0048.0048.0048.00480.0020.0020.0020.0020.0020.002.0048.0048  
 273 .0016.0016.0016.0016.0016.0008.0008.0008.0008.0008.0008.0016  
 274 0.0020.0020.0020.0020.0020.0020.0020.0020.0020.0020.0020.002  
 281 .0012.0012.0012.0012.0012.0006.0006.0006.0006.0006.0006.0012  
 284 0.0020.0020.0020.0020.0020.0020.0020.0020.0020.0020.0020.002  
 313 314.0024.0024.0024.0024.0024.0012.0012.0012.0012.0012.0012.0024  
 331 .0032.0032.0032.0032.0032.0016.0016.0016.0016.0016.0016.0032  
 344 0.0040.0040.0040.0040.0040.0040.0040.0040.0040.0040.0040.004  
 END MON-IFLW-CONC

MON-GRND-CONC

\*\*\* <PLS > Value at start of month for conc of QUAL in groundwater (qty/ft3)  
 \*\*\* x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC  
 11 14.0002.0002.0002.0002.0002.0002.0002.0002.0002.0002.0002.0002  
 21 22.0001.0001.0001.00018.e-58.e-58.e-58.e-58.e-58.e-5.0001.0001  
 31 32.0002.0002.0002.0002.0002.0002.0002.0002.0002.0002.0002.0002  
 41 42.0004.0004.0004.0004.0004.0004.0004.0004.0004.0004.0004.0004  
 51 .0034.0034.0034.0034.00340.120.0120.0120.0120.0120.012.0034  
 71 .0002.0002.0002.0002.0002.0002.0002.0002.0002.0002.0002.0002  
 72 .0001.0001.0001.00018.e-58.e-58.e-58.e-58.e-58.e-5.0001.0001  
 73 .0002.0002.0002.0002.0002.0002.0002.0002.0002.0002.0002.0002  
 74 .0004.0004.0004.0004.0004.0004.0004.0004.0004.0004.0004.0004  
 81 .0002.0002.0002.0002.0002.0002.0002.0002.0002.0002.0002.0002

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84      .0004.0004.0004.0004.0004.0004.0004.0004.0004.0004.0004.0004
211 214.0002.0002.0002.0002.0002.0002.0002.0002.0002.0002.0002.0002
221      .0001.0001.0001.00018.e-58.e-58.e-58.e-58.e-58.e-5.0001.0001
231      .0002.0002.0002.0002.0002.0002.0002.0002.0002.0002.0002.0002
241      .0004.0004.0004.0004.0004.0004.0004.0004.0004.0004.0004.0004
251      .0034.0034.0034.0034.00340.0120.0120.0120.0120.0120.012.0034
271      .0002.0002.0002.0002.0002.0002.0002.0002.0002.0002.0002.0002
272      .0001.0001.0001.00018.e-58.e-58.e-58.e-58.e-58.e-5.0001.0001
273      .0002.0002.0002.0002.0002.0002.0002.0002.0002.0002.0002.0002
274      .0004.0004.0004.0004.0004.0004.0004.0004.0004.0004.0004.0004
281      .0002.0002.0002.0002.0002.0002.0002.0002.0002.0002.0002.0002
284 331.0004.0004.0004.0004.0004.0004.0004.0004.0004.0004.0004.0004
344      .0008.0008.0008.0008.0008.0008.0008.0008.0008.0008.0008.0008
END MON-GRND-CONC

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QUAL-PROPS

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*** <PLS > Identifiers and Flags
*** x - x   QUALID      QTID  QSD  VPFW  VPFS  QSO  VQO  QIFW  VIQC  QAGW  VAQC
11  344FecColi      10^9    0    0    0    2    1    1    1    1    1
END QUAL-PROPS

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QUAL-INPUT

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***      Storage on surface and nonseasonal parameters
***      SQO  POTFW  POTFS  ACQOP  SQOLIM  WSQOP  IOQC  AOQC
*** <PLS > qty/ac qty/ton qty/ton  qty/  qty/ac  in/hr  qty/ft3  qty/ft3
*** x - x      ac.day
11  344      0.      0.      0.      0.  1.e-6      2.      0.      0.
END QUAL-INPUT

```

MON-ACCUM

```

*** <PLS > Value at start of each month for accum rate of QUALOF (lb/ac.day)
*** x - x   JAN  FEB  MAR  APR  MAY  JUN  JUL  AUG  SEP  OCT  NOV  DEC
11  14  0.18  0.18  0.18  0.18  0.18  12  12  12  12  12  3.6  0.18
21  220.8140.8140.8140.814 59.2162.8162.8162.8162.8162.8 66.6 66.6
31  32  0.64  0.64  0.64  16  16  16  16  16  16  16  16  0.64
41  42  2.4  2.4  2.4  20  20  20  20  20  20  20  20  2.4
51      10.5 10.5 10.5 75 75 75 75 75 75 75 75 10.5
71      0.18 0.18 0.18 0.18 0.18 12 12 12 12 12 12 3.6 0.18
72      0.8140.8140.8140.814 59.2162.8162.8162.8162.8162.8 66.6 66.6
73      0.64 0.64 0.64 16 16 16 16 16 16 16 16 0.64
74      2.4 2.4 2.4 20 20 20 20 20 20 20 20 2.4
81      0.18 0.18 0.18 0.18 0.18 12 12 12 12 12 12 3.6 0.18
84      2.4 2.4 2.4 20 20 20 20 20 20 20 20 2.4
211 214 0.18 0.18 0.18 0.18 0.18 12 12 12 12 12 12 3.6 0.18
221      0.8140.8140.8140.814 59.2162.8162.8162.8162.8162.8 66.6 66.6
231      0.64 0.64 0.64 16 16 16 16 16 16 16 16 0.64
241      2.4 2.4 2.4 20 20 20 20 20 20 20 20 2.4
251      10.5 10.5 10.5 75 75 75 75 75 75 75 75 10.5
271      0.18 0.18 0.18 0.18 0.18 12 12 12 12 12 12 3.6 0.18
272      0.8140.8140.8140.814 59.2162.8162.8162.8162.8162.8 66.6 66.6
273      0.64 0.64 0.64 16 16 16 16 16 16 16 16 0.64
274      2.4 2.4 2.4 20 20 20 20 20 20 20 20 2.4
281      0.18 0.18 0.18 0.18 0.18 12 12 12 12 12 12 3.6 0.18
284      2.4 2.4 2.4 20 20 20 20 20 20 20 20 2.4
313 314 0.18 0.18 0.18 0.18 0.18 12 12 12 12 12 12 3.6 0.18
331      0.64 0.64 0.64 16 16 16 16 16 16 16 16 0.64
344      2.4 2.4 2.4 20 20 20 20 20 20 20 20 2.4
END MON-ACCUM

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MON-SQOLIM

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*** <PLS > Value at start of month for limiting storage of QUALOF (lb/ac)
*** x - x   JAN  FEB  MAR  APR  MAY  JUN  JUL  AUG  SEP  OCT  NOV  DEC
11  14  2.25  2.25  2.25  2.25  2.25  150 150 150 150 150 45 2.25
21  22  5.28  5.28  5.28  5.28  384 1056 1056 1056 1056 1056 432 432
31  32  6.4  6.4  6.4  160 160 160 160 160 160 160 160 6.4
41  42  14.4 14.4 14.4 120 120 120 120 120 120 120 120 14.4
51      63  63  63  450 450 450 450 450 450 450 450 63
71      2.25 2.25 2.25 2.25 2.25 150 150 150 150 150 150 45 2.25
72      5.28 5.28 5.28 5.28 384 1056 1056 1056 1056 1056 1056 432 432
73      6.4  6.4  6.4  160 160 160 160 160 160 160 160 6.4
74      14.4 14.4 14.4 120 120 120 120 120 120 120 120 14.4
81      2.25 2.25 2.25 2.25 2.25 150 150 150 150 150 150 45 2.25
84      14.4 14.4 14.4 120 120 120 120 120 120 120 120 14.4
211 214 2.25 2.25 2.25 2.25 2.25 150 150 150 150 150 45 2.25
221      5.28 5.28 5.28 5.28 384 1056 1056 1056 1056 1056 432 432
231      6.4  6.4  6.4  160 160 160 160 160 160 160 160 6.4

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Newaukum Creek UCI File

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241      14.4 14.4 14.4 120 120 120 120 120 120 120 120 14.4
251      63 63 63 450 450 450 450 450 450 450 450 63
271      2.25 2.25 2.25 2.25 2.25 150 150 150 150 150 45 2.25
272      5.28 5.28 5.28 5.28 384 1056 1056 1056 1056 1056 432 432
273      6.4 6.4 6.4 160 160 160 160 160 160 160 160 6.4
274      14.4 14.4 14.4 120 120 120 120 120 120 120 120 14.4
281      2.25 2.25 2.25 2.25 2.25 150 150 150 150 150 45 2.25
284      14.4 14.4 14.4 120 120 120 120 120 120 120 120 14.4
313 314 2.25 2.25 2.25 2.25 2.25 150 150 150 150 150 45 2.25
331      6.4 6.4 6.4 160 160 160 160 160 160 160 160 6.4
344      14.4 14.4 14.4 120 120 120 120 120 120 120 120 14.4
END MON-SQOLIM

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MON-IFLW-CONC

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*** <PLS > Conc of QUAL in interflow outflow for each month (qty/ft3)
*** x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
11 144.e-74.e-74.e-74.e-74.e-7.0002.0002.0002.0002.00023.e-54.e-7
21 226.e-66.e-66.e-66.e-66.e-6.0036.0036.0036.0036.0036.00066.e-6
31 325.e-75.e-75.e-75.e-75.e-7.0002.0002.0002.0002.00024.e-55.e-7
41 421.e-61.e-61.e-61.e-61.e-6.0002.0002.0002.0002.00011.e-6
51 3.e-63.e-63.e-63.e-63.e-6.0006.0006.0006.0006.0006.00043.e-6
71 4.e-74.e-74.e-74.e-74.e-7.0002.0002.0002.0002.00023.e-54.e-7
72 6.e-66.e-66.e-66.e-66.e-6.0036.0036.0036.0036.0036.00066.e-6
73 5.e-75.e-75.e-75.e-75.e-7.0002.0002.0002.0002.00024.e-55.e-7
74 1.e-61.e-61.e-61.e-61.e-6.0002.0002.0002.0002.00011.e-6
81 4.e-74.e-74.e-74.e-74.e-7.0002.0002.0002.0002.00023.e-54.e-7
84 1.e-61.e-61.e-61.e-61.e-6.0002.0002.0002.0002.00011.e-6
211 2144.e-74.e-74.e-74.e-74.e-7.0002.0002.0002.0002.00023.e-54.e-7
221 6.e-66.e-66.e-66.e-66.e-6.0036.0036.0036.0036.0036.00066.e-6
231 5.e-75.e-75.e-75.e-75.e-7.0002.0002.0002.0002.00024.e-55.e-7
241 1.e-61.e-61.e-61.e-61.e-6.0002.0002.0002.0002.00011.e-6
251 3.e-63.e-63.e-63.e-63.e-6.0006.0006.0006.0006.0006.00043.e-6
271 4.e-74.e-74.e-74.e-74.e-7.0002.0002.0002.0002.00023.e-54.e-7
272 6.e-66.e-66.e-66.e-66.e-6.0036.0036.0036.0036.0036.00066.e-6
273 5.e-75.e-75.e-75.e-75.e-7.0002.0002.0002.0002.00024.e-55.e-7
274 1.e-61.e-61.e-61.e-61.e-6.0002.0002.0002.0002.00011.e-6
281 4.e-74.e-74.e-74.e-74.e-7.0002.0002.0002.0002.00023.e-54.e-7
284 1.e-61.e-61.e-61.e-61.e-6.0002.0002.0002.0002.00011.e-6
313 3144.e-74.e-74.e-74.e-74.e-7.0002.0002.0002.0002.00023.e-54.e-7
331 5.e-75.e-75.e-75.e-75.e-7.0002.0002.0002.0002.00024.e-55.e-7
344 1.e-61.e-61.e-61.e-61.e-6.0002.0002.0002.0002.00011.e-6
END MON-IFLW-CONC

```

MON-GRND-CONC

```

*** <PLS > Value at start of month for conc of QUAL in groundwater (qty/ft3)
*** x - x JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
11 142.e-72.e-72.e-72.e-72.e-74.e-66.e-66.e-64.e-64.e-62.e-72.e-7
21 221.e-51.e-51.e-51.e-51.e-54.e-56.e-56.e-54.e-54.e-51.e-51.e-5
31 322.e-62.e-62.e-62.e-62.e-62.e-53.e-53.e-52.e-52.e-52.e-62.e-6
41 423.e-63.e-63.e-63.e-63.e-68.e-5.0001.00018.e-58.e-53.e-63.e-6
51 5.e-65.e-65.e-65.e-65.e-6.0001.0001.0001.0001.00015.e-65.e-6
71 2.e-72.e-72.e-72.e-72.e-74.e-66.e-66.e-64.e-64.e-62.e-72.e-7
72 1.e-51.e-51.e-51.e-51.e-54.e-56.e-56.e-54.e-54.e-51.e-51.e-5
73 2.e-62.e-62.e-62.e-62.e-62.e-53.e-53.e-52.e-52.e-52.e-62.e-6
74 3.e-63.e-63.e-63.e-63.e-68.e-5.0001.00018.e-58.e-53.e-63.e-6
81 2.e-72.e-72.e-72.e-72.e-74.e-66.e-66.e-64.e-64.e-62.e-72.e-7
84 3.e-63.e-63.e-63.e-63.e-68.e-5.0001.00018.e-58.e-53.e-63.e-6
211 2142.e-72.e-72.e-72.e-72.e-74.e-66.e-66.e-64.e-64.e-62.e-72.e-7
221 1.e-51.e-51.e-51.e-51.e-54.e-56.e-56.e-54.e-54.e-51.e-51.e-5
231 2.e-62.e-62.e-62.e-62.e-62.e-53.e-53.e-52.e-52.e-52.e-62.e-6
241 3.e-63.e-63.e-63.e-63.e-68.e-5.0001.00018.e-58.e-53.e-63.e-6
251 5.e-65.e-65.e-65.e-65.e-6.0001.0001.0001.0001.00015.e-65.e-6
271 2.e-72.e-72.e-72.e-72.e-74.e-66.e-66.e-64.e-64.e-62.e-72.e-7
272 1.e-51.e-51.e-51.e-51.e-54.e-56.e-56.e-54.e-54.e-51.e-51.e-5
273 2.e-62.e-62.e-62.e-62.e-62.e-53.e-53.e-52.e-52.e-52.e-62.e-6
274 3.e-63.e-63.e-63.e-63.e-68.e-5.0001.00018.e-58.e-53.e-63.e-6
281 2.e-72.e-72.e-72.e-72.e-74.e-66.e-66.e-64.e-64.e-62.e-72.e-7
284 3.e-63.e-63.e-63.e-63.e-68.e-5.0001.00018.e-58.e-53.e-63.e-6
313 3142.e-72.e-72.e-72.e-72.e-74.e-66.e-66.e-64.e-64.e-62.e-72.e-7
331 2.e-62.e-62.e-62.e-62.e-62.e-53.e-53.e-52.e-52.e-52.e-62.e-6
344 3.e-63.e-63.e-63.e-63.e-68.e-5.0001.00018.e-58.e-53.e-63.e-6
END MON-GRND-CONC

```

END PERLND

IMPLND

```

GEN-INFO
<ILS ><-----Name----->      Unit-systems  Printer      ***
# - #                               User  t-series  Engr Metr BinaryOut ***
                               in  out                               Engr Metr ***
***AT ZONE A, ELEVATIONS WHERE ANNUAL PRECIP IS LESS THAN 50 IN.
91   LD RESIDENTIAL EIA      1   1   1   63   0   91   0
92   HD RESIDENTIAL EIA      1   1   1   63   0   91   0
93   COMMERC/INDUST EIA      1   1   1   63   0   91   0
94   ROAD EIA                1   1   1   63   0   91   0
***AT ZONE B, ELEVATIONS WHERE ANNUAL PRECIP IS ABOVE 50 in.
291  LD RESIDENTIAL EIA      1   1   1   63   0   91   0
292  HD RESIDENTIAL EIA      1   1   1   63   0   91   0
293  COMMERC/INDUST EIA      1   1   1   63   0   91   0
294  ROAD EIA                1   1   1   63   0   91   0
END GEN-INFO

ACTIVITY
<ILS > ***** Active Sections ****
# - # ATMP SNOW IWAT          ***
91 294 1 0 1 1 1 1
END ACTIVITY

PRINT-INFO
<ILS > ***** Print-flags ***** PIVL  PYR
# - # ATMP SNOW IWAT          *****
91 294 5 0 5 5 5 5 1 9
END PRINT-INFO

BINARY-INFO
<ILS > ***** Print-flags ***** PIVL  PYR
# - # ATMP SNOW IWAT SLDS IWTG IQAL *****
91 294 5 0 5 5 5 5 1 9
END BINARY-INFO

*** following elevation differences based on Station 44u (=820 ft)
ATEMP-DAT
<ILS >      ELDAT      AIRTEMP ***
# - #      (ft)      (deg F) ***
91      -223.0      45.0
92      -180.0      45.0
93      -232.0      45.0
94      -116.0      45.0
291      12.0      45.0
292      -49.0      45.0
293      -91.0      45.0
294      -79.0      45.0
END ATEMP-DAT

IWAT-PARM1
<ILS >      Flags      ***
# - # CSNO RTOP  VRS  VNN  RTLI  ***
1 999 0 0 0 0 0
END IWAT-PARM1

IWAT-PARM2
<ILS >      ***
# - #      LSUR      SLSUR      NSUR      RETSC      ***
91      500.00  0.0100  0.1000  0.1000
92      500.00  0.0100  0.1000  0.1000
93      500.00  0.0100  0.1000  0.1000
94      500.00  0.0100  0.1000  0.1000
291     500.00  0.0100  0.1000  0.1000
292     500.00  0.0100  0.1000  0.1000
293     500.00  0.0100  0.1000  0.1000
294     500.00  0.0100  0.1000  0.1000
END IWAT-PARM2

IWAT-PARM3
<ILS >      ***
# - #      PETMAX  PETMIN      ***
91 294
END IWAT-PARM3

IWAT-STATE1
<ILS >  IWATER state variables      ***
# - #      RETS      SURS      ***

```

91 294 0.0000 0.0000  
 END IWAT-STATE1

IWT-PARM1  
 # # WTFV CSNO \*\*\*  
 91 294 1 0  
 END IWT-PARM1

IWT-PARM2  
 # # ELEV AWTF BWTF \*\*\*  
 91 597.0 45.0 0.7  
 92 640.0 45.0 0.7  
 93 588.0 45.0 0.7  
 94 704.0 45.0 0.7  
 291 832.0 45.0 0.7  
 292 771.0 45.0 0.7  
 293 729.0 45.0 0.7  
 294 741.0 45.0 0.7  
 END IWT-PARM2

MON-AWTF  
 <ILS > Values of AWTF at start of each month (degF) \*\*\*  
 # - # JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC \*\*\*  
 91 294 36.0 36.0 37.5 40.0 44.5 48.0 51.0 51.0 49.5 46.0 41.5 38.0  
 END MON-AWTF

MON-BWTF  
 <ILS > Values of BWTF at start of each month (degF/degF) \*\*\*  
 # - # JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC \*\*\*  
 1 999 .70 .70 .70 .70 .70 .70 .70 .70 .70 .70 .70 .70  
 END MON-BWTF

\*\*\* Section SOLIDS - Sediment

SLD-PARM1  
 <ILS > Flags \*\*\*  
 # - # VASD VRSD SDOF \*\*\*  
 1 999 0 0 1  
 END SLD-PARM1

SLD-PARM2  
 \*\*\* KEIM JEIM ACCSDP REMSDP  
 <ILS > \*\*\* tons/ /day  
 # - # \*\*\* ac.day  
 91 0.014 2. 0.0050 0.025  
 92 0.014 2. 0.0060 0.025  
 93 0.014 2. 0.0070 0.025  
 94 0.014 2. 0.0050 0.025  
 291 0.014 2. 0.0050 0.030  
 292 0.014 2. 0.0060 0.030  
 293 0.014 2. 0.0070 0.030  
 294 0.014 2. 0.0050 0.030  
 END SLD-PARM2

SLD-STOR  
 <ILS > Solids storage (tons/acre) \*\*\*  
 # - # \*\*\*  
 91 0.050  
 92 0.060  
 93 0.070  
 94 0.050  
 291 0.050  
 292 0.600  
 293 0.070  
 294 0.050  
 END SLD-STOR

\*\*\* Section IQUAL - Water Quality Constituents

NQUALS  
 # # NQAL \*\*\* (1=NO3, 2=NH3, 3=PO4, 4=BOD, 5=ALK, 6=Silica, 7=E-Coli, 8=Copper, 9=FecColi)  
 1 999 9  
 END NQUALS

IQL-AD-FLAGS  
 Atmospheric Deposition Flags \*\*\*

```
<PLS > QUAL1 QUAL2 ***
# - # F C F C ***
1 999 0 -1 0 -1
```

END IQL-AD-FLAGS

QUAL-PROPS

```
*** <ILS > Identifiers and Flags
*** x - x QUALID QTID QSD VPFW QSO VQO
91 294NO2+NO3 LBS 0 0 2 0
END QUAL-PROPS
```

QUAL-INPUT

```
*** Storage on surface and nonseasonal parameters
*** SQO POTFW ACQOP SQOLIM WSQOP
*** <ILS > qty/ac qty/ton qty/ qty/ in/hr
*** x - x ac.day
91 0.06 0. 0.0003 0.0036 0.5
92 0.09 0. 0.0006 0.0072 0.5
93 0.2 0. 0.0012 0.0144 0.5
94 0.09 0. 0.0006 0.0072 0.5
291 0.06 0. 0.0003 0.0036 0.5
292 0.09 0. 0.0006 0.0072 0.5
293 0.2 0. 0.0012 0.0144 0.5
294 0.09 0. 0.0006 0.0072 0.5
END QUAL-INPUT
```

QUAL-PROPS

```
*** <ILS > Identifiers and Flags
*** x - x QUALID QTID QSD VPFW QSO VQO
91 294NH3 LBS 0 0 2 0
END QUAL-PROPS
```

QUAL-INPUT

```
*** Storage on surface and nonseasonal parameters
*** SQO POTFW ACQOP SQOLIM WSQOP
*** <ILS > qty/ac qty/ton qty/ qty/ in/hr
*** x - x ac.day
91 0.0003 0. 0.0001 0.0003 0.5
92 0.0005 0. 0.0002 0.0005 0.5
93 0.0009 0. 0.0004 0.0009 0.5
94 0.0004 0. 0.0001 0.0004 0.5
291 0.0003 0. 0.0001 0.0003 0.5
292 0.0005 0. 0.0002 0.0005 0.5
293 0.0009 0. 0.0004 0.0009 0.5
294 0.0004 0. 0.0001 0.0004 0.5
END QUAL-INPUT
```

QUAL-PROPS

```
*** <ILS > Identifiers and Flags
*** x - x QUALID QTID QSD VPFW QSO VQO
91 294PO4 LBS 1 0 2 0
END QUAL-PROPS
```

QUAL-INPUT

```
*** Storage on surface and nonseasonal parameters
*** SQO POTFW ACQOP SQOLIM WSQOP
*** <ILS > qty/ac qty/ton qty/ qty/ in/hr
*** x - x ac.day
91 0.003 0.50.000015 0.0001 0.5
92 0.006 0.5 0.00003 0.0002 0.5
93 0.009 0.50.000045 0.0003 0.5
94 0.006 0.5 0.00003 0.0002 0.5
291 0.003 0.50.000015 0.0001 0.5
292 0.006 0.5 0.00003 0.0002 0.5
293 0.009 0.50.000045 0.0003 0.5
294 0.006 0.5 0.00003 0.0002 0.5
END QUAL-INPUT
```

QUAL-PROPS

```
*** <ILS > Identifiers and Flags
*** x - x QUALID QTID QSD VPFW QSO VQO
91 294BOD/Organics LBS 0 0 2 0
END QUAL-PROPS
```

QUAL-INPUT

```

***          Storage on surface and nonseasonal parameters
***          SQO  POTFW  ACQOP  SQOLIM  WSQOP
*** <ILS >  qty/ac qty/ton  qty/  qty/ac  in/hr
*** x - x          ac.day
    91 294      1.      0.  0.099      2.7  0.5
END QUAL-INPUT

```

```

QUAL-PROPS
*** <ILS >  Identifiers and Flags
*** x - x          QUALID  QTID  QSD  VPFW  QSO  VQO
    91 294Alkalinity      LBS    0    0    2    0
END QUAL-PROPS

```

```

QUAL-INPUT
***          Storage on surface and nonseasonal parameters
***          SQO  POTFW  ACQOP  SQOLIM  WSQOP
*** <ILS >  qty/ac qty/ton  qty/  qty/ac  in/hr
*** x - x          ac.day
    91      2.03      0.  0.0022  0.0092  0.5
    92      2.03      0.  0.0023  0.0095  0.5
    93      2.03      0.  0.0024  0.0092  0.5
    94      2.03      0.  0.0021  0.0096  0.5
   291      2.03      0.  0.0022  0.0092  0.5
   292      2.03      0.  0.0023  0.0095  0.5
   293      2.03      0.  0.0024  0.0092  0.5
   294      2.03      0.  0.0021  0.0096  0.5
END QUAL-INPUT

```

```

QUAL-PROPS
*** <ILS >  Identifiers and Flags
*** x - x          QUALID  QTID  QSD  VPFW  QSO  VQO
    91 294Silica          LBS    0    0    2    0
END QUAL-PROPS

```

```

QUAL-INPUT
***          Storage on surface and nonseasonal parameters
***          SQO  POTFW  ACQOP  SQOLIM  WSQOP
*** <ILS >  qty/ac qty/ton  qty/  qty/ac  in/hr
*** x - x          ac.day
    91 294  0.003      0.  0.003      0.024  0.5
END QUAL-INPUT

```

```

QUAL-PROPS
*** <ILS >  Identifiers and Flags
*** x - x          QUALID  QTID  QSD  VPFW  QSO  VQO
    91 294E-Coli          10^9    0    0    2    0
END QUAL-PROPS

```

```

QUAL-INPUT
***          Storage on surface and nonseasonal parameters
***          SQO  POTFW  ACQOP  SQOLIM  WSQOP
*** <ILS >  qty/ac qty/ton  qty/  qty/ac  in/hr
*** x - x          ac.day
    91      0.2      0.  0.35      2.25  0.5
    92      0.3      0.  0.6       3.5   0.5
    93      0.4      0.  0.75     4.5   0.5
    94      0.1      0.  0.25     1.25  0.5
   291      0.2      0.  0.35     2.25  0.5
   292      0.3      0.  0.6       3.5   0.5
   293      0.4      0.  0.75     4.5   0.5
   294      0.1      0.  0.25     1.25  0.5
END QUAL-INPUT

```

```

QUAL-PROPS
*** <ILS >  Identifiers and Flags
*** x - x          QUALID  QTID  QSD  VPFW  QSO  VQO
    91 294COPPER          LBS    1    0    0    0
END QUAL-PROPS

```

```

QUAL-INPUT
***          Storage on surface and nonseasonal parameters
***          SQO  POTFW  ACQOP  SQOLIM  WSQOP
*** <ILS >  qty/ac qty/ton  qty/  qty/ac  in/hr
*** x - x          ac.day
    91 93      0.  0.25      0.  1.e-6  1.64

```



```

94      0.  0.325  0.  1.e-6  1.64
291 293  0.  0.25  0.  1.e-6  1.64
294      0.  0.325  0.  1.e-6  1.64
END QUAL-INPUT

```

```

QUAL-PROPS
*** <ILS > Identifiers and Flags
*** x - x QUALID QTID QSD VPFW QSO VQO
91 294FecColi 10^9 0 0 2 0
END QUAL-PROPS

```

```

QUAL-INPUT
*** Storage on surface and nonseasonal parameters
*** SQO POTFW ACQOP SQOLIM WSQOP
*** <ILS > qty/ac qty/ton qty/ qty/ in/hr
*** x - x ac.day
91      0.2  0.  0.28  1.8  0.5
92      0.3  0.  0.48  2.8  0.5
93      0.4  0.  0.6  3.6  0.5
94      0.1  0.  0.2  1  0.5
291     0.2  0.  0.28  1.8  0.5
292     0.3  0.  0.48  2.8  0.5
293     0.4  0.  0.6  3.6  0.5
294     0.1  0.  0.2  1  0.5
END QUAL-INPUT

```

END IMPLND

EXT SOURCES

```

***
<-Volume-> <Member> SsysSgap<--Mult-->Tran <-Target vols> <-Grp> <-Member-> ***
<Name> # <Name> # tem strg<-factor->strg <Name> # # <Name> # # ***
**** ATM DEPOSITION
*** The conversion factor for (mg/l) to (lb/cf) = 6.245E-5.
*** We are dividing this by 2 to take the average from 2 stations.
WDM1 2001 NO3D ENGL 3.122E-5SAME PERLND 1 999 EXTNL PQADCN 1 1
WDM1 2001 NO3D ENGL 3.122E-5SAME IMPLND 1 999 EXTNL IQADCN 1
WDM1 2002 NO3D ENGL 3.122E-5SAME PERLND 1 999 EXTNL PQADCN 1 1
WDM1 2002 NO3D ENGL 3.122E-5SAME IMPLND 1 999 EXTNL IQADCN 1
WDM1 2011 NH3D ENGL 3.122E-5SAME PERLND 1 999 EXTNL PQADCN 2 1
WDM1 2011 NH3D ENGL 3.122E-5SAME IMPLND 1 999 EXTNL IQADCN 2
WDM1 2012 NH3D ENGL 3.122E-5SAME PERLND 1 999 EXTNL PQADCN 2 1
WDM1 2012 NH3D ENGL 3.122E-5SAME IMPLND 1 999 EXTNL IQADCN 2

*** Palmer 3 ESE used for Air Temp, Sea-Tac for other 4 cons
WDM1 130 ATEM ENGL 1.SAME PERLND 1 999 EXTNL GATMP
WDM1 130 ATEM ENGL 1.SAME IMPLND 1 999 EXTNL GATMP
WDM1 130 ATEM ENGL 1.SAME RCHRES 1 999 EXTNL GATMP
WDM1 12 DEWP ENGL 1.SAME RCHRES 1 999 EXTNL DEWTMP
WDM1 13 AWND ENGL 1.DIV RCHRES 1 999 EXTNL WIND
WDM1 11 SOLR ENGL 1.DIV RCHRES 1 999 EXTNL SOLRAD
WDM1 14 CLOU ENGL 1.SAME RCHRES 1 999 EXTNL CLOUD

*** ZONE B, ANNUAL PRECIPITATION ABOVE 50 IN.
WDM1 1011 PREC ENGL 0.9160 PERLND 211 364 EXTNL PREC
WDM1 1011 PREC ENGL 0.9160 IMPLND 291 294 EXTNL PREC
*** ZONE A, ANNUAL PRECIPITATION LESS THAN 50 IN.
WDM1 1010 PREC ENGL 1.0762 PERLND 11 164 EXTNL PREC
WDM1 1010 PREC ENGL 1.0762 IMPLND 91 94 EXTNL PREC
WDM1 1002 EVAP ENGL 0.78 PERLND 11 364 EXTNL PETINP
WDM1 1002 EVAP ENGL 0.78 IMPLND 91 294 EXTNL PETINP
END EXT SOURCES

```

```

GENER
OPCODE
# # OPCD ***
11 281 19
511 781 16
END OPCODE
END GENER

```

NETWORK

```

<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Target vols> <-Grp> <-Member-> ***
<Name> # <Name> # #<-factor->strg <Name> # # <Name> # # ***
*** Calculating Total Suspended Concentration of Cu

```

```

*** Converting Total Suspended Sorbed Copper (LB) to (ug)
RCHRES 11 GQUAL RSQAL 4 3 4.5359e8 GENER 11 INPUT ONE
*** Converting AC-FT to L
RCHRES 11 HYDR VOL 1.2335e6 GENER 11 INPUT TWO
*** Need to add dissolved Conc.
GENER 11 OUTPUT TIMSER GENER 511 INPUT ONE
RCHRES 11 GQUAL DQAL 3 GENER 511 INPUT TWO

*** Converting Total Suspended Sorbed Copper (LB) to (ug)
RCHRES 92 GQUAL RSQAL 4 3 4.5359e8 GENER 92 INPUT ONE
*** Converting AC-FT to L
RCHRES 92 HYDR VOL 1.2335e6 GENER 92 INPUT TWO
*** Need to add dissolved Conc.
GENER 92 OUTPUT TIMSER GENER 592 INPUT ONE
RCHRES 92 GQUAL DQAL 3 GENER 592 INPUT TWO

*** Converting Total Suspended Sorbed Copper (LB) to (ug)
RCHRES 121 GQUAL RSQAL 4 3 4.5359e8 GENER 121 INPUT ONE
*** Converting AC-FT to L
RCHRES 121 HYDR VOL 1.2335e6 GENER 121 INPUT TWO
*** Need to add dissolved Conc.
GENER 121 OUTPUT TIMSER GENER 621 INPUT ONE
RCHRES 121 GQUAL DQAL 3 GENER 621 INPUT TWO

*** Converting Total Suspended Sorbed Copper (LB) to (ug)
RCHRES 141 GQUAL RSQAL 4 3 4.5359e8 GENER 141 INPUT ONE
*** Converting AC-FT to L
RCHRES 141 HYDR VOL 1.2335e6 GENER 141 INPUT TWO
*** Need to add dissolved Conc.
GENER 141 OUTPUT TIMSER GENER 641 INPUT ONE
RCHRES 141 GQUAL DQAL 3 GENER 641 INPUT TWO

*** Converting Total Suspended Sorbed Copper (LB) to (ug)
RCHRES 151 GQUAL RSQAL 4 3 4.5359e8 GENER 151 INPUT ONE
*** Converting AC-FT to L
RCHRES 151 HYDR VOL 1.2335e6 GENER 151 INPUT TWO
*** Need to add dissolved Conc.
GENER 151 OUTPUT TIMSER GENER 651 INPUT ONE
RCHRES 151 GQUAL DQAL 3 GENER 651 INPUT TWO

*** Converting Total Suspended Sorbed Copper (LB) to (ug)
RCHRES 221 GQUAL RSQAL 4 3 4.5359e8 GENER 221 INPUT ONE
*** Converting AC-FT to L
RCHRES 221 HYDR VOL 1.2335e6 GENER 221 INPUT TWO
*** Need to add dissolved Conc.
GENER 221 OUTPUT TIMSER GENER 721 INPUT ONE
RCHRES 221 GQUAL DQAL 3 GENER 721 INPUT TWO

*** Converting Total Suspended Sorbed Copper (LB) to (ug)
RCHRES 241 GQUAL RSQAL 4 3 4.5359e8 GENER 241 INPUT ONE
*** Converting AC-FT to L
RCHRES 241 HYDR VOL 1.2335e6 GENER 241 INPUT TWO
*** Need to add dissolved Conc.
GENER 241 OUTPUT TIMSER GENER 741 INPUT ONE
RCHRES 241 GQUAL DQAL 3 GENER 741 INPUT TWO

*** Converting Total Suspended Sorbed Copper (LB) to (ug)
RCHRES 281 GQUAL RSQAL 4 3 4.5359e8 GENER 281 INPUT ONE
*** Converting AC-FT to L
RCHRES 281 HYDR VOL 1.2335e6 GENER 281 INPUT TWO
*** Need to add dissolved Conc.
GENER 281 OUTPUT TIMSER GENER 781 INPUT ONE
RCHRES 281 GQUAL DQAL 3 GENER 781 INPUT TWO
END NETWORK

```

\*\*\*

EXT TARGETS

```

<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Volume-> <Member> Tsys Tgap Amd ***
<Name> # <Name> # <-factor->strg <Name> # <Name> tem strg strg***
COPY 22 OUTPUT MEAN 1 48.4 WDM2 1022 FLOW ENGL REPL

```

\*\*\* Writing out Hourly Water Temperature from Soil Layers (Deg F)

\*\*\* For Deg C change ENGL to METR

```

PERLND 41 PWATER SURO WDM2 6100 SURO ENGL REPL
PERLND 41 PWATER IFWO WDM2 6101 IFWO ENGL REPL
PERLND 41 PWATER AGWO WDM2 6102 AGWO ENGL REPL
PERLND 51 PWATER SURO WDM2 6200 SURO ENGL REPL

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Newaukum Creek UCI File

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PERLND 51 PWATER IFWO          WDM2 6201 IFWO      ENGL      REPL
PERLND 51 PWATER AGWO          WDM2 6202 AGWO      ENGL      REPL

RCHRES 11 HYDR   RO      1 1          WDM2 1100 FLOW      ENGL AGGR REPL
RCHRES 11 CONS   CON      1          WDM2 1101 ALKN      ENGL AGGR REPL
RCHRES 11 HTRCH  TW      1          WDM2 1102 WTEM      METR AGGR REPL
RCHRES 11 SEDTRN SSED    1          WDM2 1103 SAND      ENGL AGGR REPL
RCHRES 11 SEDTRN SSED    2          WDM2 1104 SILT     ENGL AGGR REPL
RCHRES 11 SEDTRN SSED    3          WDM2 1105 CLAY     ENGL AGGR REPL
RCHRES 11 SEDTRN SSED    4          WDM2 1106 SSED     ENGL AGGR REPL
RCHRES 11 GQUAL  DQAL    1          WDM2 1107 SLCA     ENGL AGGR REPL
  *** following factor of 0.1 converts from #cfu/1 to #cfu/100ml
RCHRES 11 GQUAL  DQAL    2      0.1      WDM2 1108 ECOL     ENGL AGGR REPL
RCHRES 11 OXRX   DOX          WDM2 1109 DOXX     ENGL AGGR REPL
RCHRES 11 OXRX   BOD          WDM2 1110 BODX     ENGL AGGR REPL
RCHRES 11 NUTRX  DNUST    1          WDM2 1111 NO3X     ENGL AGGR REPL
RCHRES 11 NUTRX  DNUST    2          WDM2 1112 NH3X     ENGL AGGR REPL
RCHRES 11 NUTRX  DNUST    4          WDM2 1113 PO4X     ENGL AGGR REPL
RCHRES 11 PLANK  BALCLA  1          WDM2 1114 BALG     ENGL AGGR REPL
RCHRES 11 PLANK  PKST3   4          WDM2 1115 ORGN     ENGL AGGR REPL
RCHRES 11 PLANK  PKST3   5          WDM2 1116 ORGP     ENGL AGGR REPL
RCHRES 11 PLANK  PKST3   6          WDM2 1117 ORGC     ENGL AGGR REPL

RCHRES 11 PLANK  PKST4   1          WDM2 1118 TNXX     ENGL AGGR REPL
RCHRES 11 PLANK  PKST4   2          WDM2 1119 TPXX     ENGL AGGR REPL
RCHRES 11 PHCARB PHST    1          WDM2 1120 TICX     ENGL AGGR REPL
RCHRES 11 PHCARB PHST    3          WDM2 1121 PHXX     ENGL AGGR REPL
RCHRES 11 GQUAL  DQAL    3          WDM2 1122 CUDX     ENGL AGGR REPL
  *** following factor of 0.1 converts from #cfu/1 to #cfu/100ml
RCHRES 11 GQUAL  DQAL    4      0.1      WDM2 1123 FCOL     ENGL AGGR REPL
GENER  511 OUTPUT TIMSER          AVER WDM2 1124 TCUX     ENGL AGGR REPL

RCHRES 92 HYDR   RO      1 1          WDM2 1500 FLOW      ENGL AGGR REPL
RCHRES 92 CONS   CON      1          WDM2 1501 ALKN      ENGL AGGR REPL
RCHRES 92 HTRCH  TW      1          WDM2 1502 WTEM      METR AGGR REPL
RCHRES 92 SEDTRN SSED    1          WDM2 1503 SAND      ENGL AGGR REPL
RCHRES 92 SEDTRN SSED    2          WDM2 1504 SILT     ENGL AGGR REPL
RCHRES 92 SEDTRN SSED    3          WDM2 1505 CLAY     ENGL AGGR REPL
RCHRES 92 SEDTRN SSED    4          WDM2 1506 SSED     ENGL AGGR REPL
RCHRES 92 GQUAL  DQAL    1          WDM2 1507 SLCA     ENGL AGGR REPL
  *** following factor of 0.1 converts from #cfu/1 to #cfu/100ml
RCHRES 92 GQUAL  DQAL    2      0.1      WDM2 1508 ECOL     ENGL AGGR REPL
RCHRES 92 OXRX   DOX          WDM2 1509 DOXX     ENGL AGGR REPL
RCHRES 92 OXRX   BOD          WDM2 1510 BODX     ENGL AGGR REPL
RCHRES 92 NUTRX  DNUST    1          WDM2 1511 NO3X     ENGL AGGR REPL
RCHRES 92 NUTRX  DNUST    2          WDM2 1512 NH3X     ENGL AGGR REPL
RCHRES 92 NUTRX  DNUST    4          WDM2 1513 PO4X     ENGL AGGR REPL
RCHRES 92 PLANK  BALCLA  1          WDM2 1514 BALG     ENGL AGGR REPL
RCHRES 92 PLANK  PKST3   4          WDM2 1515 ORGN     ENGL AGGR REPL
RCHRES 92 PLANK  PKST3   5          WDM2 1516 ORGP     ENGL AGGR REPL
RCHRES 92 PLANK  PKST3   6          WDM2 1517 ORGC     ENGL AGGR REPL
RCHRES 92 PLANK  PKST4   1          WDM2 1518 TNXX     ENGL AGGR REPL
RCHRES 92 PLANK  PKST4   2          WDM2 1519 TPXX     ENGL AGGR REPL
RCHRES 92 PHCARB PHST    1          WDM2 1520 TICX     ENGL AGGR REPL
RCHRES 92 PHCARB PHST    3          WDM2 1521 PHXX     ENGL AGGR REPL
RCHRES 92 GQUAL  DQAL    3          WDM2 1522 CUDX     ENGL AGGR REPL
  *** following factor of 0.1 converts from #cfu/1 to #cfu/100ml
RCHRES 92 GQUAL  DQAL    4      0.1      WDM2 1523 FCOL     ENGL AGGR REPL
GENER  592 OUTPUT TIMSER          AVER WDM2 1524 TCUX     ENGL AGGR REPL

RCHRES 121 HYDR  RO      1 1          WDM2 1600 FLOW      ENGL AGGR REPL
RCHRES 121 CONS  CON      1          WDM2 1601 ALKN      ENGL AGGR REPL
RCHRES 121 HTRCH TW      1          WDM2 1602 WTEM      METR AGGR REPL
RCHRES 121 SEDTRN SSED    1          WDM2 1603 SAND      ENGL AGGR REPL
RCHRES 121 SEDTRN SSED    2          WDM2 1604 SILT     ENGL AGGR REPL
RCHRES 121 SEDTRN SSED    3          WDM2 1605 CLAY     ENGL AGGR REPL
RCHRES 121 SEDTRN SSED    4          WDM2 1606 SSED     ENGL AGGR REPL
RCHRES 121 GQUAL DQAL    1          WDM2 1607 SLCA     ENGL AGGR REPL
  *** following factor of 0.1 converts from #cfu/1 to #cfu/100ml
RCHRES 121 GQUAL DQAL    2      0.1      WDM2 1608 ECOL     ENGL AGGR REPL
RCHRES 121 OXRX  DOX          WDM2 1609 DOXX     ENGL AGGR REPL
RCHRES 121 OXRX  BOD          WDM2 1610 BODX     ENGL AGGR REPL
RCHRES 121 NUTRX DNUST    1          WDM2 1611 NO3X     ENGL AGGR REPL
RCHRES 121 NUTRX DNUST    2          WDM2 1612 NH3X     ENGL AGGR REPL
RCHRES 121 NUTRX DNUST    4          WDM2 1613 PO4X     ENGL AGGR REPL
RCHRES 121 PLANK BALCLA  1          WDM2 1614 BALG     ENGL AGGR REPL

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Newaukum Creek UCI File

RCHRES	121	PLANK	PKST3	4		WDM2	1615	ORGN	ENGL	AGGR	REPL	
RCHRES	121	PLANK	PKST3	5		WDM2	1616	ORGP	ENGL	AGGR	REPL	
RCHRES	121	PLANK	PKST3	6		WDM2	1617	ORGC	ENGL	AGGR	REPL	
RCHRES	121	PLANK	PKST4	1		WDM2	1618	TNXX	ENGL	AGGR	REPL	
RCHRES	121	PLANK	PKST4	2		WDM2	1619	TPXX	ENGL	AGGR	REPL	
RCHRES	121	PHCARB	PHST	1		WDM2	1620	TICX	ENGL	AGGR	REPL	
RCHRES	121	PHCARB	PHST	3		WDM2	1621	PHXX	ENGL	AGGR	REPL	
RCHRES	121	GQUAL	DQAL	3		WDM2	1622	CUDX	ENGL	AGGR	REPL	
*** following factor of 0.1 converts from #cfu/l to #cfu/100ml												
RCHRES	121	GQUAL	DQAL	4	0.1	WDM2	1623	FCOL	ENGL	AGGR	REPL	
GENER	621	OUTPUT	TIMSER			AVER	WDM2	1624	TCUX	ENGL	AGGR	REPL
RCHRES	141	HYDR	RO	1	1	WDM2	1700	FLOW	ENGL	AGGR	REPL	
RCHRES	141	CONS	CON	1		WDM2	1701	ALKN	ENGL	AGGR	REPL	
RCHRES	141	HTRCH	TW	1		WDM2	1702	WTEM	METR	AGGR	REPL	
RCHRES	141	SEDTRN	SSED	1		WDM2	1703	SAND	ENGL	AGGR	REPL	
RCHRES	141	SEDTRN	SSED	2		WDM2	1704	SILT	ENGL	AGGR	REPL	
RCHRES	141	SEDTRN	SSED	3		WDM2	1705	CLAY	ENGL	AGGR	REPL	
RCHRES	141	SEDTRN	SSED	4		WDM2	1706	SSED	ENGL	AGGR	REPL	
RCHRES	141	GQUAL	DQAL	1		WDM2	1707	SLCA	ENGL	AGGR	REPL	
*** following factor of 0.1 converts from #cfu/l to #cfu/100ml												
RCHRES	141	GQUAL	DQAL	2	0.1	WDM2	1708	ECOL	ENGL	AGGR	REPL	
RCHRES	141	OXR	DOX			WDM2	1709	DOXX	ENGL	AGGR	REPL	
RCHRES	141	OXR	BOD			WDM2	1710	BODX	ENGL	AGGR	REPL	
RCHRES	141	NUTRX	DNUST	1		WDM2	1711	NO3X	ENGL	AGGR	REPL	
RCHRES	141	NUTRX	DNUST	2		WDM2	1712	NH3X	ENGL	AGGR	REPL	
RCHRES	141	NUTRX	DNUST	4		WDM2	1713	PO4X	ENGL	AGGR	REPL	
RCHRES	141	PLANK	BALCLA	1		WDM2	1714	BALG	ENGL	AGGR	REPL	
RCHRES	141	PLANK	PKST3	4		WDM2	1715	ORGN	ENGL	AGGR	REPL	
RCHRES	141	PLANK	PKST3	5		WDM2	1716	ORGP	ENGL	AGGR	REPL	
RCHRES	141	PLANK	PKST3	6		WDM2	1717	ORGC	ENGL	AGGR	REPL	
RCHRES	141	PLANK	PKST4	1		WDM2	1718	TNXX	ENGL	AGGR	REPL	
RCHRES	141	PLANK	PKST4	2		WDM2	1719	TPXX	ENGL	AGGR	REPL	
RCHRES	141	PHCARB	PHST	1		WDM2	1720	TICX	ENGL	AGGR	REPL	
RCHRES	141	PHCARB	PHST	3		WDM2	1721	PHXX	ENGL	AGGR	REPL	
RCHRES	141	GQUAL	DQAL	3		WDM2	1722	CUDX	ENGL	AGGR	REPL	
*** following factor of 0.1 converts from #cfu/l to #cfu/100ml												
RCHRES	141	GQUAL	DQAL	4	0.1	WDM2	1723	FCOL	ENGL	AGGR	REPL	
GENER	641	OUTPUT	TIMSER			AVER	WDM2	1724	TCUX	ENGL	AGGR	REPL
RCHRES	151	HYDR	RO	1	1	WDM2	1200	FLOW	ENGL	AGGR	REPL	
RCHRES	151	CONS	CON	1		WDM2	1201	ALKN	ENGL	AGGR	REPL	
RCHRES	151	HTRCH	TW	1		WDM2	1202	WTEM	METR	AGGR	REPL	
RCHRES	151	SEDTRN	SSED	1		WDM2	1203	SAND	ENGL	AGGR	REPL	
RCHRES	151	SEDTRN	SSED	2		WDM2	1204	SILT	ENGL	AGGR	REPL	
RCHRES	151	SEDTRN	SSED	3		WDM2	1205	CLAY	ENGL	AGGR	REPL	
RCHRES	151	SEDTRN	SSED	4		WDM2	1206	SSED	ENGL	AGGR	REPL	
RCHRES	151	GQUAL	DQAL	1		WDM2	1207	SLCA	ENGL	AGGR	REPL	
*** following factor of 0.1 converts from #cfu/l to #cfu/100ml												
RCHRES	151	GQUAL	DQAL	2	0.1	WDM2	1208	ECOL	ENGL	AGGR	REPL	
RCHRES	151	OXR	DOX			WDM2	1209	DOXX	ENGL	AGGR	REPL	
RCHRES	151	OXR	BOD			WDM2	1210	BODX	ENGL	AGGR	REPL	
RCHRES	151	NUTRX	DNUST	1		WDM2	1211	NO3X	ENGL	AGGR	REPL	
RCHRES	151	NUTRX	DNUST	2		WDM2	1212	NH3X	ENGL	AGGR	REPL	
RCHRES	151	NUTRX	DNUST	4		WDM2	1213	PO4X	ENGL	AGGR	REPL	
RCHRES	151	PLANK	BALCLA	1		WDM2	1214	BALG	ENGL	AGGR	REPL	
RCHRES	151	PLANK	PKST3	4		WDM2	1215	ORGN	ENGL	AGGR	REPL	
RCHRES	151	PLANK	PKST3	5		WDM2	1216	ORGP	ENGL	AGGR	REPL	
RCHRES	151	PLANK	PKST3	6		WDM2	1217	ORGC	ENGL	AGGR	REPL	
RCHRES	151	PLANK	PKST4	1		WDM2	1218	TNXX	ENGL	AGGR	REPL	
RCHRES	151	PLANK	PKST4	2		WDM2	1219	TPXX	ENGL	AGGR	REPL	
RCHRES	151	PHCARB	PHST	1		WDM2	1220	TICX	ENGL	AGGR	REPL	
RCHRES	151	PHCARB	PHST	3		WDM2	1221	PHXX	ENGL	AGGR	REPL	
RCHRES	151	GQUAL	DQAL	3		WDM2	1222	CUDX	ENGL	AGGR	REPL	
*** following factor of 0.1 converts from #cfu/l to #cfu/100ml												
RCHRES	151	GQUAL	DQAL	4	0.1	WDM2	1223	FCOL	ENGL	AGGR	REPL	
GENER	651	OUTPUT	TIMSER			AVER	WDM2	1224	TCUX	ENGL	AGGR	REPL
RCHRES	221	HYDR	RO	1	1	WDM2	1800	FLOW	ENGL	AGGR	REPL	
RCHRES	221	CONS	CON	1		WDM2	1801	ALKN	ENGL	AGGR	REPL	
RCHRES	221	HTRCH	TW	1		WDM2	1802	WTEM	METR	AGGR	REPL	
RCHRES	221	SEDTRN	SSED	1		WDM2	1803	SAND	ENGL	AGGR	REPL	
RCHRES	221	SEDTRN	SSED	2		WDM2	1804	SILT	ENGL	AGGR	REPL	
RCHRES	221	SEDTRN	SSED	3		WDM2	1805	CLAY	ENGL	AGGR	REPL	
RCHRES	221	SEDTRN	SSED	4		WDM2	1806	SSED	ENGL	AGGR	REPL	

Newaukum Creek UCI File

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RCHRES 221 GQUAL DQAL 1 WDM2 1807 SLCA ENGL AGGR REPL
*** following factor of 0.1 converts from #cfu/1 to #cfu/100ml
RCHRES 221 GQUAL DQAL 2 0.1 WDM2 1808 ECOL ENGL AGGR REPL
RCHRES 221 OXRX DOX WDM2 1809 DOXX ENGL AGGR REPL
RCHRES 221 OXRX BOD WDM2 1810 BODX ENGL AGGR REPL
RCHRES 221 NUTRX DNUST 1 WDM2 1811 NO3X ENGL AGGR REPL
RCHRES 221 NUTRX DNUST 2 WDM2 1812 NH3X ENGL AGGR REPL
RCHRES 221 NUTRX DNUST 4 WDM2 1813 PO4X ENGL AGGR REPL
RCHRES 221 PLANK BALCLA 1 WDM2 1814 BALG ENGL AGGR REPL
RCHRES 221 PLANK PKST3 4 WDM2 1815 ORGN ENGL AGGR REPL
RCHRES 221 PLANK PKST3 5 WDM2 1816 ORGP ENGL AGGR REPL
RCHRES 221 PLANK PKST3 6 WDM2 1817 ORGC ENGL AGGR REPL
RCHRES 221 PLANK PKST4 1 WDM2 1818 TNXX ENGL AGGR REPL
RCHRES 221 PLANK PKST4 2 WDM2 1819 TPXX ENGL AGGR REPL
RCHRES 221 PHCARB PHST 1 WDM2 1820 TICX ENGL AGGR REPL
RCHRES 221 PHCARB PHST 3 WDM2 1821 PHXX ENGL AGGR REPL
RCHRES 221 GQUAL DQAL 3 WDM2 1822 CUDX ENGL AGGR REPL
*** following factor of 0.1 converts from #cfu/1 to #cfu/100ml
RCHRES 221 GQUAL DQAL 4 0.1 WDM2 1823 FCOL ENGL AGGR REPL
GENER 721 OUTPUT TIMSER AVER WDM2 1824 TCUX ENGL AGGR REPL

RCHRES 241 HYDR RO 1 1 WDM2 1300 FLOW ENGL AGGR REPL
RCHRES 241 CONS CON 1 WDM2 1301 ALKN ENGL AGGR REPL
RCHRES 241 HTRCH TW 1 WDM2 1302 WTEM METR AGGR REPL
RCHRES 241 SEDTRN SSED 1 WDM2 1303 SAND ENGL AGGR REPL
RCHRES 241 SEDTRN SSED 2 WDM2 1304 SILT ENGL AGGR REPL
RCHRES 241 SEDTRN SSED 3 WDM2 1305 CLAY ENGL AGGR REPL
RCHRES 241 SEDTRN SSED 4 WDM2 1306 SSED ENGL AGGR REPL
RCHRES 241 GQUAL DQAL 1 WDM2 1307 SLCA ENGL AGGR REPL
*** following factor of 0.1 converts from #cfu/1 to #cfu/100ml
RCHRES 241 GQUAL DQAL 2 0.1 WDM2 1308 ECOL ENGL AGGR REPL
RCHRES 241 OXRX DOX WDM2 1309 DOXX ENGL AGGR REPL
RCHRES 241 OXRX BOD WDM2 1310 BODX ENGL AGGR REPL
RCHRES 241 NUTRX DNUST 1 WDM2 1311 NO3X ENGL AGGR REPL
RCHRES 241 NUTRX DNUST 2 WDM2 1312 NH3X ENGL AGGR REPL
RCHRES 241 NUTRX DNUST 4 WDM2 1313 PO4X ENGL AGGR REPL
RCHRES 241 PLANK BALCLA 1 WDM2 1314 BALG ENGL AGGR REPL
RCHRES 241 PLANK PKST3 4 WDM2 1315 ORGN ENGL AGGR REPL
RCHRES 241 PLANK PKST3 5 WDM2 1316 ORGP ENGL AGGR REPL
RCHRES 241 PLANK PKST3 6 WDM2 1317 ORGC ENGL AGGR REPL
RCHRES 241 PLANK PKST4 1 WDM2 1318 TNXX ENGL AGGR REPL
RCHRES 241 PLANK PKST4 2 WDM2 1319 TPXX ENGL AGGR REPL

RCHRES 241 PHCARB PHST 1 WDM2 1320 TICX ENGL AGGR REPL
RCHRES 241 PHCARB PHST 3 WDM2 1321 PHXX ENGL AGGR REPL
RCHRES 241 GQUAL DQAL 3 WDM2 1322 CUDX ENGL AGGR REPL
*** following factor of 0.1 converts from #cfu/1 to #cfu/100ml
RCHRES 241 GQUAL DQAL 4 0.1 WDM2 1323 FCOL ENGL AGGR REPL
GENER 741 OUTPUT TIMSER AVER WDM2 1324 TCUX ENGL AGGR REPL

RCHRES 281 HYDR RO 1 1 WDM2 1400 FLOW ENGL AGGR REPL
RCHRES 281 CONS CON 1 WDM2 1401 ALKN ENGL AGGR REPL
RCHRES 281 HTRCH TW 1 WDM2 1402 WTEM METR AGGR REPL
RCHRES 281 SEDTRN SSED 1 WDM2 1403 SAND ENGL AGGR REPL
RCHRES 281 SEDTRN SSED 2 WDM2 1404 SILT ENGL AGGR REPL
RCHRES 281 SEDTRN SSED 3 WDM2 1405 CLAY ENGL AGGR REPL
RCHRES 281 SEDTRN SSED 4 WDM2 1406 SSED ENGL AGGR REPL
RCHRES 281 GQUAL DQAL 1 WDM2 1407 SLCA ENGL AGGR REPL
*** following factor of 0.1 converts from #cfu/1 to #cfu/100ml
RCHRES 281 GQUAL DQAL 2 0.1 WDM2 1408 ECOL ENGL AGGR REPL
RCHRES 281 OXRX DOX WDM2 1409 DOXX ENGL AGGR REPL
RCHRES 281 OXRX BOD WDM2 1410 BODX ENGL AGGR REPL
RCHRES 281 NUTRX DNUST 1 WDM2 1411 NO3X ENGL AGGR REPL
RCHRES 281 NUTRX DNUST 2 WDM2 1412 NH3X ENGL AGGR REPL
RCHRES 281 NUTRX DNUST 4 WDM2 1413 PO4X ENGL AGGR REPL
RCHRES 281 PLANK BALCLA 1 WDM2 1414 BALG ENGL AGGR REPL
RCHRES 281 PLANK PKST3 4 WDM2 1415 ORGN ENGL AGGR REPL
RCHRES 281 PLANK PKST3 5 WDM2 1416 ORGP ENGL AGGR REPL
RCHRES 281 PLANK PKST3 6 WDM2 1417 ORGC ENGL AGGR REPL
RCHRES 281 PLANK PKST4 1 WDM2 1418 TNXX ENGL AGGR REPL
RCHRES 281 PLANK PKST4 2 WDM2 1419 TPXX ENGL AGGR REPL
RCHRES 281 PHCARB PHST 1 WDM2 1420 TICX ENGL AGGR REPL
RCHRES 281 PHCARB PHST 3 WDM2 1421 PHXX ENGL AGGR REPL
RCHRES 281 GQUAL DQAL 3 WDM2 1422 CUDX ENGL AGGR REPL
*** following factor of 0.1 converts from #cfu/1 to #cfu/100ml
RCHRES 281 GQUAL DQAL 4 0.1 WDM2 1423 FCOL ENGL AGGR REPL

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Newaukum Creek UCI File

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GENER 781 OUTPUT TIMSER          AVER WDM2 1424 TCUX          ENGL AGGR REPL
*** ExpSysStats
RCHRES 281 ROFLOW ROVOL 1 1 7.23e-4SUM WDM2 101 SIMQ 1 ENGL AGGR REPL
COPY 1 OUTPUT MEAN 1 1 6.025e-5SUM WDM2 102 SURO 1 ENGL AGGR REPL
COPY 1 OUTPUT MEAN 2 1 6.025e-5SUM WDM2 103 IFWO 1 ENGL AGGR REPL
COPY 1 OUTPUT MEAN 3 1 6.025e-5SUM WDM2 104 AGWO 1 ENGL AGGR REPL
COPY 1 OUTPUT MEAN 4 1 6.025e-5SUM WDM2 105 PETX 1 ENGL AGGR REPL
COPY 1 OUTPUT MEAN 5 1 6.025e-5SUM WDM2 106 SAET 1 ENGL AGGR REPL
COPY 1 OUTPUT MEAN 6 1 6.025e-5AVER WDM2 107 UZSX 1 ENGL AGGR REPL
COPY 1 OUTPUT MEAN 7 1 6.025e-5AVER WDM2 108 LZSX 1 ENGL AGGR REPL

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RCHRES 11 HYDR TAU *** WDM2 4011 TAUX ENGL AGGR REPL
RCHRES 21 HYDR TAU *** WDM2 4021 TAUX ENGL AGGR REPL
RCHRES 31 HYDR TAU *** WDM2 4031 TAUX ENGL AGGR REPL
RCHRES 41 HYDR TAU *** WDM2 4041 TAUX ENGL AGGR REPL
RCHRES 51 HYDR TAU *** WDM2 4051 TAUX ENGL AGGR REPL
RCHRES 52 HYDR TAU *** WDM2 4052 TAUX ENGL AGGR REPL
RCHRES 61 HYDR TAU *** WDM2 4061 TAUX ENGL AGGR REPL
RCHRES 71 HYDR TAU *** WDM2 4071 TAUX ENGL AGGR REPL
RCHRES 81 HYDR TAU *** WDM2 4081 TAUX ENGL AGGR REPL
RCHRES 91 HYDR TAU *** WDM2 4091 TAUX ENGL AGGR REPL
RCHRES 92 HYDR TAU *** WDM2 4092 TAUX ENGL AGGR REPL
RCHRES 101 HYDR TAU *** WDM2 4101 TAUX ENGL AGGR REPL
RCHRES 111 HYDR TAU *** WDM2 4111 TAUX ENGL AGGR REPL
RCHRES 121 HYDR TAU *** WDM2 4121 TAUX ENGL AGGR REPL
RCHRES 131 HYDR TAU *** WDM2 4131 TAUX ENGL AGGR REPL
RCHRES 141 HYDR TAU *** WDM2 4141 TAUX ENGL AGGR REPL
RCHRES 151 HYDR TAU *** WDM2 4151 TAUX ENGL AGGR REPL
RCHRES 161 HYDR TAU *** WDM2 4161 TAUX ENGL AGGR REPL
RCHRES 171 HYDR TAU *** WDM2 4171 TAUX ENGL AGGR REPL
RCHRES 172 HYDR TAU *** WDM2 4172 TAUX ENGL AGGR REPL
RCHRES 181 HYDR TAU *** WDM2 4181 TAUX ENGL AGGR REPL
RCHRES 182 HYDR TAU *** WDM2 4182 TAUX ENGL AGGR REPL
RCHRES 191 HYDR TAU *** WDM2 4191 TAUX ENGL AGGR REPL
RCHRES 201 HYDR TAU *** WDM2 4201 TAUX ENGL AGGR REPL
RCHRES 211 HYDR TAU *** WDM2 4211 TAUX ENGL AGGR REPL
RCHRES 221 HYDR TAU *** WDM2 4221 TAUX ENGL AGGR REPL
RCHRES 231 HYDR TAU *** WDM2 4231 TAUX ENGL AGGR REPL
RCHRES 241 HYDR TAU *** WDM2 4241 TAUX ENGL AGGR REPL
RCHRES 251 HYDR TAU *** WDM2 4251 TAUX ENGL AGGR REPL
RCHRES 261 HYDR TAU *** WDM2 4261 TAUX ENGL AGGR REPL
RCHRES 271 HYDR TAU *** WDM2 4271 TAUX ENGL AGGR REPL
RCHRES 281 HYDR TAU *** WDM2 4281 TAUX ENGL AGGR REPL
RCHRES 291 HYDR TAU *** WDM2 4291 TAUX ENGL AGGR REPL

```

END EXT TARGETS

SCHEMATIC

ZONE B (RAINFALL IS GREATER THAN 50. INCHES) \*\*\*

Sub Basin 11 \*\*\*

```

<-Source-> <--Area--> <-Target-> MBLK ***
<Name> # <-factor-> <Name> # Tbl# ***
PERLND 212 86.602 RCHRES 11 5
PERLND 213 136.451 RCHRES 11 5
PERLND 214 374.815 RCHRES 11 5
PERLND 271 120.246 RCHRES 11 5
PERLND 314 504.312 RCHRES 11 5
IMPLND 291 3.983 RCHRES 11 2
IMPLND 292 0.421 RCHRES 11 2
IMPLND 293 1.581 RCHRES 11 2
IMPLND 294 0.533 RCHRES 11 2

```

Sub Basin 21 \*\*\*

```

<-Source-> <--Area--> <-Target-> MBLK ***
<Name> # <-factor-> <Name> # Tbl# ***
PERLND 271 35.987 RCHRES 21 5
PERLND 313 7.107 RCHRES 21 5
PERLND 314 39.962 RCHRES 21 5
IMPLND 291 0.023 RCHRES 21 2

```

Sub Basin 31 \*\*\*

```

<-Source-> <--Area--> <-Target-> MBLK ***
<Name> # <-factor-> <Name> # Tbl# ***
PERLND 241 51.534 RCHRES 31 5
PERLND 271 141.777 RCHRES 31 5

```

PERLND 272	63.554	RCHRES 31	5	
PERLND 274	71.288	RCHRES 31	5	
PERLND 273	30.408	RCHRES 31	5	
IMPLND 291	4.698	RCHRES 31	2	
IMPLND 292	3.198	RCHRES 31	2	
IMPLND 293	0.320	RCHRES 31	2	
Sub Basin 41	***			
<-Source->	<--Area-->	<-Target->	MBLK	***
<Name> #	<-factor->	<Name> #	Tbl#	***
PERLND 212	53.925	RCHRES 41	5	
PERLND 213	134.502	RCHRES 41	5	
PERLND 214	260.045	RCHRES 41	5	
PERLND 271	156.827	RCHRES 41	5	
PERLND 314	283.053	RCHRES 41	5	
IMPLND 291	2.288	RCHRES 41	2	
IMPLND 292	0.331	RCHRES 41	2	
Sub Basin 51	***			
<-Source->	<--Area-->	<-Target->	MBLK	***
<Name> #	<-factor->	<Name> #	Tbl#	***
PERLND 271	219.632	RCHRES 51	5	
PERLND 272	40.094	RCHRES 51	5	
PERLND 274	67.048	RCHRES 51	5	
PERLND 273	20.219	RCHRES 51	5	
IMPLND 291	2.936	RCHRES 51	2	
IMPLND 292	0.533	RCHRES 51	2	
IMPLND 293	1.564	RCHRES 51	2	
Sub Basin 61	***			
<-Source->	<--Area-->	<-Target->	MBLK	***
<Name> #	<-factor->	<Name> #	Tbl#	***
PERLND 271	219.963	RCHRES 61	5	
PERLND 272	21.855	RCHRES 61	5	
PERLND 274	23.444	RCHRES 61	5	
PERLND 314	71.408	RCHRES 61	5	
PERLND 344	42.472	RCHRES 61	5	
IMPLND 291	1.500	RCHRES 61	2	
IMPLND 292	0.124	RCHRES 61	2	
IMPLND 293	0.267	RCHRES 61	2	
Sub Basin 71	***			
<-Source->	<--Area-->	<-Target->	MBLK	***
<Name> #	<-factor->	<Name> #	Tbl#	***
PERLND 211	16.528	RCHRES 71	1	
PERLND 221	47.026	RCHRES 71	1	
PERLND 241	19.987	RCHRES 71	1	
PERLND 271	128.871	RCHRES 71	1	
PERLND 272	17.988	RCHRES 71	1	
PERLND 274	34.082	RCHRES 71	1	
PERLND 281	19.873	RCHRES 71	1	
IMPLND 291	2.008	RCHRES 71	2	
IMPLND 292	0.074	RCHRES 71	2	
IMPLND 293	0.160	RCHRES 71	2	
IMPLND 294	0.675	RCHRES 71	2	
Sub Basin 81	***			
<-Source->	<--Area-->	<-Target->	MBLK	***
<Name> #	<-factor->	<Name> #	Tbl#	***
PERLND 211	90.358	RCHRES 81	1	
PERLND 221	133.774	RCHRES 81	1	
PERLND 241	253.454	RCHRES 81	1	
PERLND 271	419.372	RCHRES 81	1	
PERLND 274	240.896	RCHRES 81	1	
PERLND 314	122.536	RCHRES 81	1	
IMPLND 291	11.921	RCHRES 81	2	
IMPLND 292	6.959	RCHRES 81	2	
IMPLND 293	3.962	RCHRES 81	2	
IMPLND 294	7.552	RCHRES 81	2	
Sub Basin 91	***			
<-Source->	<--Area-->	<-Target->	MBLK	***
<Name> #	<-factor->	<Name> #	Tbl#	***
PERLND 221	103.287	RCHRES 91	1	
PERLND 241	115.546	RCHRES 91	1	

PERLND 271	35.622	RCHRES 91	1	
PERLND 272	38.593	RCHRES 91	1	
PERLND 274	71.703	RCHRES 91	1	
PERLND 331	35.296	RCHRES 91	1	
IMPLND 291	4.783	RCHRES 91	2	
IMPLND 292	3.674	RCHRES 91	2	
IMPLND 293	2.736	RCHRES 91	2	
IMPLND 294	3.181	RCHRES 91	2	

Sub Basin 101 \*\*\*

<-Source->	<--Area-->	<-Target->	MBLK	***
<Name> #	<-factor->	<Name> #	Tbl#	***
PERLND 211	43.069	RCHRES 101	5	
PERLND 221	201.972	RCHRES 101	5	
PERLND 241	257.652	RCHRES 101	5	
PERLND 251	94.997	RCHRES 101	5	
PERLND 274	74.828	RCHRES 101	5	
IMPLND 291	6.977	RCHRES 101	2	
IMPLND 292	87.167	RCHRES 101	2	
IMPLND 293	24.645	RCHRES 101	2	
IMPLND 294	36.461	RCHRES 101	2	

Sub Basin 111 \*\*\*

<-Source->	<--Area-->	<-Target->	MBLK	***
<Name> #	<-factor->	<Name> #	Tbl#	***
PERLND 211	104.102	RCHRES 111	5	
PERLND 221	191.580	RCHRES 111	5	
PERLND 241	225.136	RCHRES 111	5	
PERLND 271	409.999	RCHRES 111	5	
PERLND 272	76.282	RCHRES 111	5	
PERLND 274	195.650	RCHRES 111	5	
PERLND 284	87.762	RCHRES 111	5	
PERLND 314	101.099	RCHRES 111	5	
IMPLND 291	14.093	RCHRES 111	2	
IMPLND 292	37.605	RCHRES 111	2	
IMPLND 293	4.709	RCHRES 111	2	
IMPLND 294	12.189	RCHRES 111	2	

Sub Basin 121 \*\*\*

<-Source->	<--Area-->	<-Target->	MBLK	***
<Name> #	<-factor->	<Name> #	Tbl#	***
PERLND 211	40.038	RCHRES 121	1	
PERLND 221	29.404	RCHRES 121	1	
PERLND 241	84.177	RCHRES 121	1	
PERLND 271	89.788	RCHRES 121	1	
PERLND 274	89.211	RCHRES 121	1	
PERLND 284	51.630	RCHRES 121	1	
IMPLND 291	3.634	RCHRES 121	2	
IMPLND 292	5.665	RCHRES 121	2	
IMPLND 293	2.079	RCHRES 121	2	
IMPLND 294	4.105	RCHRES 121	2	

Sub Basin 131 \*\*\*

<-Source->	<--Area-->	<-Target->	MBLK	***
<Name> #	<-factor->	<Name> #	Tbl#	***
PERLND 211	116.212	RCHRES 131	1	
PERLND 221	185.792	RCHRES 131	1	
PERLND 241	345.235	RCHRES 131	1	
PERLND 231	60.845	RCHRES 131	1	
PERLND 284	68.318	RCHRES 131	1	
IMPLND 291	9.124	RCHRES 131	2	
IMPLND 292	21.983	RCHRES 131	2	
IMPLND 293	9.542	RCHRES 131	2	
IMPLND 294	18.817	RCHRES 131	2	

ZONE A (RAINFALL IS LESS THAN 50. INCHES) \*\*\*

Sub Basin 141 \*\*\*

<-Source->	<--Area-->	<-Target->	MBLK	***
<Name> #	<-factor->	<Name> #	Tbl#	***
PERLND 11	26.719	RCHRES 141	1	
PERLND 21	92.661	RCHRES 141	1	
PERLND 41	99.468	RCHRES 141	1	
PERLND 31	31.601	RCHRES 141	1	
PERLND 81	65.424	RCHRES 141	1	



Newaukum Creek UCI File

PERLND	84	37.996	RCHRES	141	1
IMPLND	91	5.637	RCHRES	141	2
IMPLND	92	11.213	RCHRES	141	2
IMPLND	93	1.812	RCHRES	141	2
IMPLND	94	3.376	RCHRES	141	2
Sub Basin 151 ***					
<-Source->		<--Area-->	<-Target->		MBLK ***
<Name>	#	<-factor->	<Name>	#	Tbl# ***
PERLND	41	60.210	RCHRES	151	5
PERLND	51	94.858	RCHRES	151	5
PERLND	31	28.823	RCHRES	151	5
IMPLND	91	4.025	RCHRES	151	2
IMPLND	92	62.105	RCHRES	151	2
IMPLND	93	3.021	RCHRES	151	2
IMPLND	94	15.388	RCHRES	151	2
Sub Basin 161 ***					
<-Source->		<--Area-->	<-Target->		MBLK ***
<Name>	#	<-factor->	<Name>	#	Tbl# ***
PERLND	21	2.287	RCHRES	161	1
PERLND	22	1.982	RCHRES	161	1
PERLND	41	10.591	RCHRES	161	1
PERLND	42	4.037	RCHRES	161	1
PERLND	51	4.192	RCHRES	161	1
PERLND	31	2.565	RCHRES	161	1
PERLND	32	2.391	RCHRES	161	1
PERLND	84	3.129	RCHRES	161	1
IMPLND	91	0.786	RCHRES	161	2
IMPLND	92	2.729	RCHRES	161	2
IMPLND	94	0.888	RCHRES	161	2
Sub Basin 171 ***					
<-Source->		<--Area-->	<-Target->		MBLK ***
<Name>	#	<-factor->	<Name>	#	Tbl# ***
PERLND	11	40.155	RCHRES	171	5
PERLND	21	159.101	RCHRES	171	5
PERLND	41	180.438	RCHRES	171	5
PERLND	51	87.335	RCHRES	171	5
PERLND	31	64.374	RCHRES	171	5
IMPLND	91	9.196	RCHRES	171	2
IMPLND	92	57.744	RCHRES	171	2
IMPLND	93	10.661	RCHRES	171	2
IMPLND	94	15.459	RCHRES	171	2
Sub Basin 181 ***					
<-Source->		<--Area-->	<-Target->		MBLK ***
<Name>	#	<-factor->	<Name>	#	Tbl# ***
PERLND	11	148.794	RCHRES	181	5
PERLND	21	208.562	RCHRES	181	5
PERLND	41	241.466	RCHRES	181	5
PERLND	31	68.966	RCHRES	181	5
IMPLND	91	9.852	RCHRES	181	2
IMPLND	92	10.033	RCHRES	181	2
IMPLND	93	5.810	RCHRES	181	2
IMPLND	94	14.162	RCHRES	181	2
Sub Basin 191 ***					
<-Source->		<--Area-->	<-Target->		MBLK ***
<Name>	#	<-factor->	<Name>	#	Tbl# ***
PERLND	11	66.964	RCHRES	191	1
PERLND	21	174.834	RCHRES	191	1
PERLND	41	161.659	RCHRES	191	1
PERLND	31	35.701	RCHRES	191	1
PERLND	81	130.481	RCHRES	191	1
PERLND	84	76.586	RCHRES	191	1
IMPLND	91	7.250	RCHRES	191	2
IMPLND	92	3.818	RCHRES	191	2
IMPLND	93	4.158	RCHRES	191	2
IMPLND	94	9.293	RCHRES	191	2
Sub Basin 201 ***					
<-Source->		<--Area-->	<-Target->		MBLK ***
<Name>	#	<-factor->	<Name>	#	Tbl# ***
PERLND	11	12.842	RCHRES	201	1
PERLND	21	49.803	RCHRES	201	1

Newaukum Creek UCI File

PERLND	41	86.829	RCHRES	201	1
IMPLND	91	1.100	RCHRES	201	2
IMPLND	92	0.955	RCHRES	201	2
IMPLND	93	1.155	RCHRES	201	2
IMPLND	94	0.746	RCHRES	201	2
Sub Basin 211 ***					
<-Source->		<--Area-->	<-Target->		MBLK ***
<Name>	#	<-factor->	<Name>	#	Tbl# ***
PERLND	11	161.094	RCHRES	211	1
PERLND	21	298.059	RCHRES	211	1
PERLND	41	443.364	RCHRES	211	1
IMPLND	91	5.818	RCHRES	211	2
IMPLND	92	11.756	RCHRES	211	2
IMPLND	93	8.102	RCHRES	211	2
IMPLND	94	18.604	RCHRES	211	2
Sub Basin 221 ***					
<-Source->		<--Area-->	<-Target->		MBLK ***
<Name>	#	<-factor->	<Name>	#	Tbl# ***
PERLND	11	33.909	RCHRES	221	1
PERLND	21	144.624	RCHRES	221	1
PERLND	41	156.520	RCHRES	221	1
PERLND	72	49.614	RCHRES	221	1
PERLND	74	38.685	RCHRES	221	1
PERLND	84	44.982	RCHRES	221	1
IMPLND	91	4.045	RCHRES	221	2
IMPLND	92	5.752	RCHRES	221	2
IMPLND	93	4.638	RCHRES	221	2
IMPLND	94	8.511	RCHRES	221	2
Sub Basin 231 ***					
<-Source->		<--Area-->	<-Target->		MBLK ***
<Name>	#	<-factor->	<Name>	#	Tbl# ***
PERLND	11	188.690	RCHRES	231	1
PERLND	12	101.778	RCHRES	231	1
PERLND	14	55.549	RCHRES	231	1
PERLND	21	190.925	RCHRES	231	1
PERLND	41	227.345	RCHRES	231	1
PERLND	31	55.971	RCHRES	231	1
IMPLND	91	7.996	RCHRES	231	2
IMPLND	92	4.640	RCHRES	231	2
IMPLND	93	3.927	RCHRES	231	2
IMPLND	94	16.898	RCHRES	231	2
Sub Basin 241 ***					
<-Source->		<--Area-->	<-Target->		MBLK ***
<Name>	#	<-factor->	<Name>	#	Tbl# ***
PERLND	11	143.211	RCHRES	241	1
PERLND	21	157.967	RCHRES	241	1
PERLND	41	254.913	RCHRES	241	1
PERLND	71	120.942	RCHRES	241	1
PERLND	72	58.334	RCHRES	241	1
PERLND	74	115.230	RCHRES	241	1
PERLND	81	77.296	RCHRES	241	1
IMPLND	91	9.175	RCHRES	241	2
IMPLND	92	12.785	RCHRES	241	2
IMPLND	93	3.856	RCHRES	241	2
IMPLND	94	15.299	RCHRES	241	2
Sub Basin 251 ***					
<-Source->		<--Area-->	<-Target->		MBLK ***
<Name>	#	<-factor->	<Name>	#	Tbl# ***
PERLND	11	36.616	RCHRES	251	1
PERLND	12	35.492	RCHRES	251	1
PERLND	21	55.371	RCHRES	251	1
PERLND	41	62.602	RCHRES	251	1
PERLND	74	20.958	RCHRES	251	1
PERLND	84	13.157	RCHRES	251	1
IMPLND	91	2.035	RCHRES	251	2
IMPLND	92	2.690	RCHRES	251	2
IMPLND	93	3.145	RCHRES	251	2
IMPLND	94	5.331	RCHRES	251	2
Sub Basin 261 ***					
<-Source->		<--Area-->	<-Target->		MBLK ***

Newaukum Creek UCI File

<Name>	#	<-factor->	<Name>	#	Tbl#	***
PERLND	11	61.191	RCHRES	261	1	
PERLND	12	37.340	RCHRES	261	1	
PERLND	13	23.298	RCHRES	261	1	
PERLND	14	174.021	RCHRES	261	1	
PERLND	21	56.938	RCHRES	261	1	
PERLND	41	88.831	RCHRES	261	1	
IMPLND	91	2.643	RCHRES	261	2	
IMPLND	92	0.405	RCHRES	261	2	
IMPLND	93	0.373	RCHRES	261	2	

Sub Basin 271 \*\*\*

<-Source->		<--Area-->	<-Target->	MBLK	***	
<Name>	#	<-factor->	<Name>	#	Tbl#	***
PERLND	11	107.518	RCHRES	271	1	
PERLND	21	38.412	RCHRES	271	1	
PERLND	41	116.422	RCHRES	271	1	
PERLND	71	152.335	RCHRES	271	1	
PERLND	74	155.587	RCHRES	271	1	
PERLND	73	61.915	RCHRES	271	1	
IMPLND	91	10.390	RCHRES	271	2	
IMPLND	92	9.114	RCHRES	271	2	
IMPLND	93	1.883	RCHRES	271	2	
IMPLND	94	4.584	RCHRES	271	2	

Sub Basin 281 \*\*\*

<-Source->		<--Area-->	<-Target->	MBLK	***	
<Name>	#	<-factor->	<Name>	#	Tbl#	***
PERLND	11	119.298	RCHRES	281	1	
PERLND	14	118.860	RCHRES	281	1	
PERLND	21	29.259	RCHRES	281	1	
PERLND	41	44.603	RCHRES	281	1	
PERLND	31	19.655	RCHRES	281	1	
IMPLND	91	2.808	RCHRES	281	2	
IMPLND	92	0.298	RCHRES	281	2	
IMPLND	93	0.995	RCHRES	281	2	
IMPLND	94	5.402	RCHRES	281	2	

Sub Basin 291 \*\*\*

<-Source->		<--Area-->	<-Target->	MBLK	***	
<Name>	#	<-factor->	<Name>	#	Tbl#	***
PERLND	11	72.985	RCHRES	291	1	
PERLND	14	79.643	RCHRES	291	1	
PERLND	41	22.993	RCHRES	291	1	
PERLND	71	17.877	RCHRES	291	1	
IMPLND	91	1.093	RCHRES	291	2	
IMPLND	92	0.058	RCHRES	291	2	

\*\*\* NEWAUKUM RCHRES AND FTABLES

\*\*\* THE MFACTOR CONVERTS ACRE-FEET OF RUNOFF TO INCHES.

RCHRES	11	RCHRES	31	3
RCHRES	11	COPY	22	4
RCHRES	21	RCHRES	31	3
RCHRES	21	COPY	22	4
RCHRES	31	RCHRES	91	3
RCHRES	41	RCHRES	51	3
RCHRES	51	RCHRES	52	3
RCHRES	61	RCHRES	52	3
RCHRES	52	RCHRES	92	3
RCHRES	71	RCHRES	92	3
RCHRES	81	RCHRES	91	3
RCHRES	91	RCHRES	92	3
RCHRES	92	RCHRES	121	3
RCHRES	101	RCHRES	111	3
RCHRES	111	RCHRES	121	3
RCHRES	121	RCHRES	131	3
RCHRES	131	RCHRES	141	3
RCHRES	141	RCHRES	172	3
RCHRES	151	RCHRES	161	3
RCHRES	161	RCHRES	172	3
RCHRES	171	RCHRES	172	3
RCHRES	181	RCHRES	201	3
RCHRES	172	RCHRES	182	3
RCHRES	182	RCHRES	201	3
RCHRES	191	RCHRES	201	3

Newaukum Creek UCI File

RCHRES 201	RCHRES 221	3
RCHRES 211	RCHRES 221	3
RCHRES 221	RCHRES 231	3
RCHRES 231	RCHRES 261	3
RCHRES 241	RCHRES 251	3
RCHRES 251	RCHRES 261	3
RCHRES 261	RCHRES 281	3
RCHRES 271	RCHRES 281	3
RCHRES 281	RCHRES 291	3

\*\*\* COPY Operations for HSPEXP

IMPLND 91	83.849	COPY 1	91
IMPLND 92	196.095	COPY 1	91
IMPLND 93	53.536	COPY 1	91
IMPLND 94	133.941	COPY 1	91
IMPLND 291	67.968	COPY 1	91
IMPLND 292	167.734	COPY 1	91
IMPLND 293	51.565	COPY 1	91
IMPLND 294	83.513	COPY 1	91
PERLND 11	1219.99	COPY 1	90
PERLND 12	174.61	COPY 1	90
PERLND 13	23.298	COPY 1	90
PERLND 14	428.073	COPY 1	90
PERLND 21	1658.803	COPY 1	90
PERLND 22	1.982	COPY 1	90
PERLND 31	307.656	COPY 1	90
PERLND 32	2.391	COPY 1	90
PERLND 41	2258.25	COPY 1	90
PERLND 42	4.037	COPY 1	90
PERLND 51	186.385	COPY 1	90
PERLND 71	291.154	COPY 1	90
PERLND 72	107.948	COPY 1	90
PERLND 73	61.915	COPY 1	90
PERLND 74	330.46	COPY 1	90
PERLND 81	273.201	COPY 1	90
PERLND 84	175.85	COPY 1	90
PERLND 211	410.307	COPY 1	90
PERLND 212	140.527	COPY 1	90
PERLND 213	270.953	COPY 1	90
PERLND 214	634.86	COPY 1	90
PERLND 221	892.835	COPY 1	90
PERLND 231	60.845	COPY 1	90
PERLND 241	1352.72	COPY 1	90
PERLND 251	94.997	COPY 1	90
PERLND 271	1978.08	COPY 1	90
PERLND 272	258.366	COPY 1	90
PERLND 273	50.627	COPY 1	90
PERLND 274	868.15	COPY 1	90
PERLND 281	19.873	COPY 1	90
PERLND 284	207.71	COPY 1	90
PERLND 313	7.107	COPY 1	90
PERLND 314	1122.37	COPY 1	90
PERLND 331	35.296	COPY 1	90
PERLND 344	42.472	COPY 1	90

END SCHEMATIC

RCHRES

GEN-INFO

RCHRES	Name	Nexits	Unit	Systems	Printer	BinaryOut***
# - #	<----->	<----->	User	T-series	Engl Metr	LKFG Engl Metr***
			in	out		***
11		1	1	1	62 0	91 0
21		1	1	1	62 0	91 0
31		1	1	1	62 0	91 0
41		1	1	1	62 0	91 0
51		1	1	1	62 0	91 0
52		1	1	1	62 0	91 0
61		1	1	1	62 0	91 0
71		1	1	1	62 0	91 0
81		1	1	1	62 0	91 0
91		1	1	1	62 0	91 0
92		1	1	1	62 0	91 0
101		1	1	1	62 0	91 0
111		1	1	1	62 0	91 0
121		1	1	1	62 0	91 0
131		1	1	1	62 0	91 0

Newaukum Creek UCI File

```

141          1  1  1  1  62  0  0  91  0
151          1  1  1  1  62  0  0  91  0
161          1  1  1  1  62  0  0  91  0
171          1  1  1  1  62  0  0  91  0
172          1  1  1  1  62  0  0  91  0
181          1  1  1  1  62  0  0  91  0
182          1  1  1  1  62  0  0  91  0
191          1  1  1  1  62  0  0  91  0
201          1  1  1  1  62  0  0  91  0
211          1  1  1  1  62  0  0  91  0
221          1  1  1  1  62  0  0  91  0
231          1  1  1  1  62  0  0  91  0
241          1  1  1  1  62  0  0  91  0
251          1  1  1  1  62  0  0  91  0
261          1  1  1  1  62  0  0  91  0
271          1  1  1  1  62  0  0  91  0
281          1  1  1  1  62  0  0  91  0
291          1  1  1  1  62  0  0  91  0
END GEN-INFO

```

```

ACTIVITY
RCHRES ***** Active Sections *****
# - # HYFG ADFG CNFG HTFG SDFG GQFG OXFG NUFG PKFG PHFG          ***
11 291 1  1  1  1  1  1  1  1  1  1  1  1
END ACTIVITY

```

```

PRINT-INFO
RCHRES ***** Printout Flags ***** PIVL  PYR
# - # HYDR ADCA CONS HEAT  SED  GQL OXRX NUTR PLNK PHCB *****
11 291  5  5  5  5  5  5  5  5  5  5  5  1  9
END PRINT-INFO

```

```

BINARY-INFO
RCHRES ***** Printout Flags ***** PIVL  PYR
# - # HYDR ADCA CONS HEAT  SED  GQL OXRX NUTR PLNK PHCB *****
11 291  5  5  5  5  5  5  5  5  5  5  5  1  9
END BINARY-INFO

```

```

HYDR-PARM1
RCHRES Flags for each HYDR Section          ***
# - # VC A1 A2 A3 ODFVFG for each *** ODGTFG for each  FUNCT for each
      FG FG FG FG possible exit *** possible exit  possible exit
      * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
11 291 0 1 1 1  4 0 0 0 0  0  0 0 0 0 0  2 2 2 2 2
END HYDR-PARM1

```

```

HYDR-PARM2
RCHRES
# - # FTABNO      LEN      DELTH      STCOR      KS      DB50          ***
<-----><-----><-----><-----><-----><-----><----->          ***
11          11      2.25     1600.          0.5
21          21      0.40      420.           0.5
31          31      1.50      270.           0.5
41          41      2.10     1880.          0.5
51          51      1.75      260.           0.5
52          52      0.55       62.           0.5
61          61      1.50      440.           0.5
71          71      1.40      110.           0.5
81          81      2.50      210.           0.5
91          91      0.50       12.           0.5
92          92      0.30       8.            0.5
101         101     1.20       70.           0.5
111         111     1.35       60.           0.5
121         121     1.00       30.           0.5
131         131     0.60       10.           0.5
141         141     0.65        5.           0.5
151         151     0.55      20.           0.5
161         161     0.35      65.           0.5
171         171     1.00      85.           0.5
172         172     0.05        5.           0.5
181         181     1.25      62.           0.5
182         182     0.60      12.           0.5
191         191     1.60      42.           0.5
201         201     0.40        8.           0.5
211         211     2.00      10.           0.5
221         221     0.75      30.           0.5

```

```

231      231      1.75      100.      0.5
241      241      1.50      180.      0.5
251      251      0.90      140.      0.5
261      261      1.10      200.      0.5
271      271      2.25      240.      0.5
281      281      0.50      60.      0.5
291      291      0.75      60.      0.5
END HYDR-PARM2

```

HYDR-INIT

```

RCHRES Initial conditions for each HYDR section ***
# - # *** VOL Initial value of COLIND Initial value of OUTDGT ***
*** ac-ft for each possible exit for each possible exit
<-----><-----> <---><---><---><---><---> *** <---><---><---><---><--->
11 0.5 4.0
21 0.5 4.0
31 0.5 4.0
41 0.5 4.0
51 0.5 4.0
52 0.5 4.0
61 0.5 4.0
71 0.5 4.0
81 0.5 4.0
91 0.5 4.0
92 0.5 4.0
101 0.5 4.0
111 0.5 4.0
121 0.5 4.0
131 0.5 4.0
141 0.5 4.0
151 0.5 4.0
161 0.5 4.0
171 0.5 4.0
172 0.5 4.0
181 0.5 4.0
182 0.5 4.0
191 0.5 4.0
201 0.5 4.0
211 0.5 4.0
221 0.5 4.0
231 0.5 4.0
241 0.5 4.0
251 0.5 4.0
261 0.5 4.0
271 0.5 4.0
281 0.5 4.0
291 0.5 4.0
END HYDR-INIT

```

HT-BED-FLAGS

```

RCHRES ***
# - # BDFG TGFG TSTP ***
11 291 2 3
END HT-BED-FLAGS

```

\*\*\* The following ELDAT based on Station 44u (=820 ft)

```

HEAT-PARM
RCHRES *** ELEV ELDAT CFSAX KATRAD KCOND KEVAP
# - # *** (ft) (ft)
11 1800.0 980.0 0.70 9.0 6.12 2.50
21 1210.0 390.0 0.70 9.0 6.12 2.50
31 865.0 45.0 0.75 9.0 6.12 2.50
41 1980.0 1160.0 0.75 9.0 6.12 2.50
51 910.0 90.0 0.70 9.0 6.12 2.50
52 749.0 -71.0 0.70 9.0 6.12 2.50
61 1000.0 180.0 0.70 9.0 6.12 2.50
71 785.0 -35.0 0.70 9.0 6.12 2.50
81 835.0 15.0 0.70 9.0 6.12 2.50
91 724.0 -96.0 0.70 9.0 6.12 2.50
92 714.0 -106.0 0.70 9.0 6.12 2.50
101 805.0 -15.0 0.60 9.0 6.12 2.50
111 740.0 -80.0 0.65 9.0 6.12 2.50
121 695.0 -125.0 0.70 9.0 6.12 2.50
131 675.0 -145.0 0.70 9.0 6.12 2.50
141 667.5 -152.5 0.70 9.0 6.12 2.50
151 740.0 -80.0 0.60 9.0 6.12 2.50

```

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161	697.5	-122.5	0.65	9.0	6.12	2.50
171	707.5	-112.5	0.75	9.0	6.12	2.50
172	657.5	-162.5	0.75	9.0	6.12	2.50
181	669.0	-151.0	0.75	9.0	6.12	2.50
182	644.0	-176.0	0.75	9.0	6.12	2.50
191	659.0	-161.0	0.75	9.0	6.12	2.50
201	634.0	-186.0	0.75	9.0	6.12	2.50
211	635.0	-185.0	0.75	9.0	6.12	2.50
221	615.0	-205.0	0.70	9.0	6.12	2.50
231	550.0	-270.0	0.60	9.0	6.12	2.50
241	730.0	-90.0	0.60	9.0	6.12	2.50
251	570.0	-250.0	0.40	9.0	6.12	2.50
261	400.0	-420.0	0.00	9.0	6.12	2.50
271	420.0	-400.0	0.30	9.0	6.12	2.50
281	270.0	-550.0	0.00	9.0	6.12	2.50
291	210.0	-610.0	0.00	9.0	6.12	2.50

END HEAT-PARM

HT-BED-PARM

RCHRES	MUDDEP	TGRND	KMUD	KGRND	***
# - #	(ft)	(degF)	(kcal/m2/C/hr)	***	
11 291	2.0		80.	1.42	

END HT-BED-PARM

MON-HT-TGRND

RCHRES	Temperature of ground (degF)													***
#	#	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	***
11	121	41.	42.	44.	46.	48.	49.	51.	51.	50.	47.	44.	42.	
131	221	42.	43.	45.	47.	50.	52.	53.	53.	52.	49.	46.	43.	
231		43.	44.	46.	48.	51.	53.	54.	54.	53.	50.	47.	44.	
241		42.	43.	45.	47.	50.	52.	53.	53.	52.	49.	46.	43.	
251	291	45.	46.	48.	50.	53.	55.	56.	56.	55.	52.	49.	46.	

END MON-HT-TGRND

HEAT-INIT

RCHRES	TW	AIRTMP	***
# - #	(deg F)	(deg F)	***
11 291	50.0	50.0	

END HEAT-INIT

SANDFG

RCHRES	***	
# - #	SDFG	***
11 291	3	

END SANDFG

SED-GENPAM

RCHRES	BEDWID	BEDWRN	POR	***
# - #	(ft)	(ft)	(-)	***
11	8.0	4.0	0.4	
21	8.0	4.0	0.4	
31	8.0	4.0	0.4	
41	8.0	4.0	0.4	
51	8.0	4.0	0.4	
52	8.0	4.0	0.4	
61	8.0	4.0	0.4	
71	8.0	4.0	0.4	
81	8.0	4.0	0.4	
91	8.0	4.0	0.4	
92	8.0	4.0	0.4	
101	8.0	4.0	0.4	
111	8.0	4.0	0.4	
121	8.0	4.0	0.4	
131	8.0	4.0	0.4	
141	8.0	4.0	0.4	
151	8.0	4.0	0.4	
161	8.0	4.0	0.4	
171	8.0	4.0	0.4	
172	8.0	4.0	0.4	
181	8.0	4.0	0.4	
182	8.0	4.0	0.4	
191	8.0	4.0	0.4	
201	8.0	4.0	0.4	
211	8.0	4.0	0.4	
221	8.0	4.0	0.4	
231	8.0	4.0	0.4	

```

241      8.0      4.0      0.4
251      8.0      4.0      0.4
261      8.0      4.0      0.4
271      8.0      4.0      0.4
281      8.0      4.0      0.4
291      8.0      4.0      0.4
END SED-GENPARM

```

```

SAND-PM
RCHRES ***      D      W      RHO      KSAND      EXPSND
# - # ***      (in)      (in/sec)      (gm/cm3)
11      31      0.005      0.02      2.5      0.03      2.5
41      0.005      0.02      2.5      0.025      2.5
51      0.005      0.02      2.5      0.032      2.5
52      0.005      0.02      2.5      0.06      2.5
61      0.005      0.02      2.5      0.025      2.5
71      0.005      0.02      2.5      0.035      2.5
81      0.005      0.02      2.5      0.042      2.5
91      0.005      0.02      2.5      0.013      2.5
92      0.005      0.02      2.5      0.03      2.5
101     0.005      0.02      2.5      0.037      2.5
111     0.005      0.02      2.5      0.035      2.5
121     0.005      0.02      2.5      0.026      2.5
131     0.005      0.02      2.5      0.022      2.5
141     0.005      0.02      2.5      0.04      2.5
151     0.005      0.02      2.5      0.013      2.5
161     171     0.005      0.02      2.5      0.04      2.5
172     0.005      0.02      2.5      0.01      2.5
181     0.005      0.02      2.5      0.035      2.5
182     0.005      0.02      2.5      0.012      2.5
191     0.005      0.02      2.5      0.04      2.5
201     0.005      0.02      2.5      0.012      2.5
211     0.005      0.02      2.5      0.055      2.5
221     0.005      0.02      2.5      0.0065     2.5
231     0.005      0.02      2.5      0.0025     2.5
241     0.005      0.02      2.5      0.05      2.5
251     0.005      0.02      2.5      0.045      2.5
261     0.005      0.02      2.5      0.003      2.5
271     0.005      0.02      2.5      0.011      2.5
281     0.005      0.02      2.5      0.0065     2.5
291     0.005      0.02      2.5      0.014      2.5
END SAND-PM

```

```

SILT-CLAY-PM      SILT PARAMETERS
RCHRES ***      D      W      RHO      TAUCD      TAUCS      M
# - # ***      (in)      (in/sec)      (gm/cm3)      (lb/ft2)      (lb/ft2)      lb/ft2.d
11      0.0006      .0035      2.2      0.800      2.65      0.5
21      0.0006      .0035      2.2      0.200      0.60      0.5
31      0.0006      .0035      2.2      0.400      2.00      0.5
41      0.0006      .0035      2.2      0.700      3.40      0.5
51      0.0006      .0035      2.2      0.210      1.30      0.5
52      0.0006      .0035      2.2      0.650      2.00      0.5
61      0.0006      .0035      2.2      0.270      1.50      0.5
71      0.0006      .0035      2.2      0.080      0.34      0.5
81      0.0006      .0035      2.2      0.170      0.78      0.5
91      0.0006      .0035      2.2      0.080      0.34      0.5
92      0.0006      .0035      2.2      0.280      0.70      0.5
101     0.0006      .0035      2.2      0.120      0.72      0.5
111     0.0006      .0035      2.2      0.150      0.78      0.5
121     0.0006      .0035      2.2      0.420      0.85      0.5
131     0.0006      .0035      2.2      0.300      0.50      0.5
141     0.0006      .0035      2.2      0.100      0.24      0.5
151     0.0006      .0035      2.2      0.040      0.30      0.5
161     0.0006      .0035      2.2      0.110      0.90      0.5
171     0.0006      .0035      2.2      0.120      0.75      0.5
172     0.0006      .0035      2.2      1.000      2.30      0.5
181     0.0006      .0035      2.2      0.130      0.43      0.5
182     0.0006      .0035      2.2      0.170      0.40      0.5
191     0.0006      .0035      2.2      0.052      0.28      0.5
201     0.0006      .0035      2.2      0.260      0.45      0.5
211     0.0006      .0035      2.2      0.025      0.063     0.5
221     0.0006      .0035      2.2      0.450      0.90      0.5
231     0.0006      .0035      2.2      0.550      2.00      0.5
241     0.0006      .0035      2.2      0.210      0.61      0.5

251     0.0006      .0035      2.2      0.350      0.90      0.5

```



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```

261      0.0006      .0035      2.2      1.100      3.70      0.5
271      0.0006      .0035      2.2      0.200      0.47      0.5
281      0.0006      .0035      2.2      1.000      2.80      0.5
291      0.0006      .0035      2.2      0.550      1.90      0.5
END SILT-CLAY-PM

```

```

SILT-CLAY-PM
*** RCHRES      D      W      RHO      TAUCD      TAUCS      M
*** x - x      (in) (in/sec) gm/cm3 lb/ft2 lb/ft2 lb/ft2.d
11      0.00006      .0004      2.0      0.800      2.65      0.5
21      0.00006      .0004      2.0      0.200      0.60      0.5
31      0.00006      .0004      2.0      0.400      2.00      0.5
41      0.00006      .0004      2.0      0.700      3.40      0.5
51      0.00006      .0004      2.0      0.210      1.30      0.5
52      0.00006      .0004      2.0      0.650      2.00      0.5
61      0.00006      .0004      2.0      0.270      1.50      0.5
71      0.00006      .0004      2.0      0.080      0.34      0.5
81      0.00006      .0004      2.0      0.170      0.78      0.5
91      0.00006      .0004      2.0      0.080      0.34      0.5
92      0.00006      .0004      2.0      0.280      0.70      0.5
101     0.00006      .0004      2.0      0.120      0.72      0.5
111     0.00006      .0004      2.0      0.150      0.78      0.5
121     0.00006      .0004      2.0      0.420      0.85      0.5
131     0.00006      .0004      2.0      0.300      0.50      0.5
141     0.00006      .0004      2.0      0.100      0.24      0.5
151     0.00006      .0004      2.0      0.040      0.30      0.5
161     0.00006      .0004      2.0      0.110      0.90      0.5
171     0.00006      .0004      2.0      0.120      0.75      0.5
172     0.00006      .0004      2.0      1.000      2.30      0.5
181     0.00006      .0004      2.0      0.130      0.43      0.5
182     0.00006      .0004      2.0      0.170      0.40      0.5
191     0.00006      .0004      2.0      0.052     0.28      0.5
201     0.00006      .0004      2.0      0.260      0.45      0.5
211     0.00006      .0004      2.0      0.025     0.063     0.5
221     0.00006      .0004      2.0      0.450      0.90      0.5
231     0.00006      .0004      2.0      0.550      2.00      0.5
241     0.00006      .0004      2.0      0.210      0.61      0.5
251     0.00006      .0004      2.0      0.350      0.90      0.5
261     0.00006      .0004      2.0      1.100      3.70      0.5
271     0.00006      .0004      2.0      0.200      0.47      0.5
281     0.00006      .0004      2.0      1.000      2.80      0.5
291     0.00006      .0004      2.0      0.550      1.90      0.5
END SILT-CLAY-PM

```

```

SSED-INIT
RCHRES *** Suspended sed concs (mg/l)
x - x *** Sand Silt Clay
11 291 0.0 0.0 0.0
END SSED-INIT

```

```

BED-INIT
*** RCHRES      BEDDEP      Initial bed composition
*** x - x      (ft)      Sand      Silt      Clay
11      2.0      0.65      0.15      0.20
21      2.0      0.65      0.15      0.20
31      2.0      0.65      0.15      0.20
41      2.0      0.65      0.15      0.20
51      2.0      0.65      0.15      0.20
52      2.0      0.65      0.15      0.20
61      2.0      0.65      0.15      0.20
71      2.0      0.65      0.15      0.20
81      2.0      0.65      0.15      0.20
91      2.0      0.65      0.15      0.20
92      2.0      0.65      0.15      0.20
101     2.0      0.65      0.15      0.20
111     2.0      0.65      0.15      0.20
121     2.0      0.65      0.15      0.20
131     2.0      0.65      0.15      0.20
141     2.0      0.65      0.15      0.20
151     2.0      0.65      0.15      0.20
161     2.0      0.65      0.15      0.20
171     2.0      0.65      0.15      0.20
172     2.0      0.65      0.15      0.20
181     2.0      0.65      0.15      0.20
182     2.0      0.65      0.15      0.20
191     2.0      0.65      0.15      0.20

```

```

201      2.0      0.65      0.15      0.20
211      2.0      0.65      0.15      0.20
221      2.0      0.65      0.15      0.20
231      2.0      0.65      0.15      0.20
241      2.0      0.65      0.15      0.20
251      2.0      0.65      0.15      0.20
261      2.0      0.65      0.15      0.20
271      2.0      0.65      0.15      0.20
281      2.0      0.65      0.15      0.20
291      2.0      0.65      0.15      0.20
END BED-INIT

```

```

NCONS
RCHRES      ***
# - #NCONS  ***
11 291      1
END NCONS

```

```

CONS-DATA
RCHRES      Data for conservative constituent No. 1      ***
# - #<---Substance-id--->      Conc      ID      CONV      QTYID ***
11 291 Alkalinity as CaCO3      20.0      mg/l      16019.      LBS
END CONS-DATA

```

```

GQ-GENDATA
RCHRES NGQL TPGF PHFG ROFG CDFG SDFG PYFG LAT ***
# - # ***
11 291      4      1      1      1      47.8
END GQ-GENDATA

```

```

GQ-QALDATA
RCHRES      Data for general constituent No. 1      ***
# - #<-----GQID-----><-----DQAL>      CONCID      CONV      QTYID ***
11 291      Silica      5.      mg      16019.      LBS
END GQ-QALDATA

```

```

GQ-QALFG
RCHRES HDRL OXID PHOT VOLT BIOD GEN SDAS ***
# - # ***
11 291      0      0      0      0      1      0
END GQ-QALFG

```

```

GQ-GENDECAY
RCHRES      FSTDEC      THFST ***
# - # ***
11 291      0.00010      1.07
END GQ-GENDECAY

```

```

GQ-QALDATA
RCHRES      Data for general constituent No. 2      ***
# - #<-----GQID----->      DQAL      CONCID      CONV      QTYID ***
11 291      E-Coli      200.0      #CFU 3.531E+07      10^9CFU
END GQ-QALDATA

```

```

GQ-QALFG
RCHRES HDRL OXID PHOT VOLT BIOD GEN SDAS ***
# - # ***
11 291      0      0      0      0      1      0
END GQ-QALFG

```

```

GQ-GENDECAY
RCHRES      FSTDEC      THFST ***
# - # ***
11 291      1.0      1.07
END GQ-GENDECAY

```

```

GQ-QALDATA
RCHRES      Data for general constituent No. 3      ***
# - #<-----GQID----->      DQAL      CONCID      CONV      QTYID ***
11 291      Copper      0.0      UG 1.6019E07      LBS
END GQ-QALDATA

```

```

GQ-QALFG
*** RCHRES HDRL OXID PHOT VOLT BIOD GEN SDAS
*** x - x
11 291      0      0      0      0      0      1

```

END GQ-QALFG

GQ-SEDDECAY  
 \*\*\* RCHRES KSUSP THSUSP KBED THBED  
 \*\*\* x - x /day /day  
 11 291 0. 1.07 0. 1.07  
 END GQ-SEDDECAY

GQ-KD  
 \*\*\* PARTITION COEFFICIENTS \*\*\*  
 RCHRES SUS SAND SUS SILT SUS CLAY BED SAND BED SILT BED CLAY\*\*\*  
 # - # l/mg l/mg l/mg l/mg l/mg l/mg\*\*\*  
 11 291 .00025 .00075 .00075 .00025 .00075 .00075  
 END GQ-KD

GQ-ADRATE  
 \*\*\* ADSORPTION/DESORPTION RATE PARAMETERS \*\*\*  
 RCHRES SUS SAND SUS SILT SUS CLAY BED SAND BED SILT BED CLAY\*\*\*  
 # - # \*\*\*  
 11 291 25. 25. 25. 0.0002 0.0002 0.0002  
 END GQ-ADRATE

GQ-ADTHETA  
 \*\*\* ADSORPTION/DESORPTION TEMP CORRECTION PARAMETERS \*\*\*  
 RCHRES ADPM1 ADPM2 ADPM3 ADPM4 ADPM5 ADPM6\*\*\*  
 # - # \*\*\*  
 11 291 1.07 1.07 1.07 1.07 1.07 1.07  
 END GQ-ADTHETA

GQ-SEDCONC  
 \*\*\* INITIAL CONC ON SEDIMENTS \*\*\*  
 RCHRES SQAL1 SQAL2 SQAL3 SQAL4 SQAL5 SQAL6\*\*\*  
 # - # UG/MG UG/MG UG/MG\*\*\*  
 11 141 0.01 0.1 0.1 0.00040 0.0008 0.0008  
 151 0.01 0.1 0.1 0.00100 0.0020 0.0020  
 161 0.01 0.1 0.1 0.00080 0.0016 0.0016  
 171 0.01 0.1 0.1 0.00050 0.0010 0.0010  
 172 0.01 0.1 0.1 0.00060 0.0012 0.0012  
 181 0.01 0.1 0.1 0.00040 0.0008 0.0008  
 182 0.01 0.1 0.1 0.00060 0.0012 0.0012  
 191 0.01 0.1 0.1 0.00050 0.0010 0.0010  
 201 0.01 0.1 0.1 0.00070 0.0014 0.0014  
 211 0.01 0.1 0.1 0.00060 0.0012 0.0012  
 221 231 0.01 0.1 0.1 0.00080 0.0016 0.0016  
 241 251 0.01 0.1 0.1 0.00100 0.0020 0.0020  
 261 291 0.01 0.1 0.1 0.00030 0.0006 0.0006  
 END GQ-SEDCONC

GQ-QALDATA  
 RCHRES Data for general constituent No. 4 \*\*\*  
 # - # <-----GQID-----> DQAL CONCID CONV QTYID \*\*\*  
 11 291 FecColi 200.0 #CFU 3.531E+07 10^9CFU  
 END GQ-QALDATA

GQ-QALFG  
 RCHRES HDRL OXID PHOT VOLT BIOD GEN SDAS \*\*\*  
 # - # \*\*\*  
 11 291 0 0 0 0 0 1 0  
 END GQ-QALFG

GQ-GENDECAY  
 RCHRES FSTDEC THFST \*\*\*  
 # - # \*\*\*  
 11 291 1.0 1.07  
 END GQ-GENDECAY

BENTH-FLAG  
 RCHRES BENF \*\*\*  
 # - # \*\*\*  
 11 81 0  
 91 1  
 92 0  
 101 111 1  
 121 141 0  
 151 171 1  
 172 0

```

181      1
182      0
191      1
201      0
211      1
221 231  0
241 251  1
261      0
271      1
281 291  0
END BENTH-FLAG

```

```

OX-FLAGS
RCHRES REAM ***
# - # ***
11 291 3
END OX-FLAGS

```

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OX-GENPARM
RCHRES   KBOD20   TCBOB   KODSET   SUPSAT ***
# - #     /hr      (-)     (ft/hr)  (-)     ***
11      .006     1.047   .027     1.3
21      .006     1.047   .027     1.3
31      .006     1.047   .027     1.3
41      .006     1.047   .027     1.3
51      .006     1.047   .027     1.3
52      .006     1.047   .027     1.3
61      .006     1.047   .027     1.3
71      .006     1.047   .027     1.3
81      .006     1.047   .027     1.3
91      .006     1.047   .027     1.3
92      .006     1.047   .027     1.3
101     .006     1.047   .027     1.3
111     .006     1.047   .027     1.3
121     .006     1.047   .027     1.3
131     .006     1.047   .027     1.3
141     .006     1.047   .027     1.3
151     .006     1.047   .027     1.3
161     .006     1.047   .027     1.3
171     .006     1.047   .027     1.3
172     .006     1.047   .027     1.3
181     .006     1.047   .027     1.3
182     .006     1.047   .027     1.3
191     .006     1.047   .027     1.3
201     .006     1.047   .027     1.3
211     .006     1.047   .027     1.3
221     .006     1.047   .027     1.3
231     .006     1.047   .027     1.3
241     .006     1.047   .027     1.3
251     .006     1.047   .027     1.3
261     .006     1.047   .027     1.3
271     .006     1.047   .027     1.3
281     .006     1.047   .027     1.3
291     .006     1.047   .027     1.3
END OX-GENPARM

```

```

OX-REAPARM
*****
RCHRES   TCGINV   REAK   EXPRED   EXPREV ***
# - #     /hr      /hr     /hr     /hr     ***
11      81      1.07   .40     -1.673  .969
91     151     1.07   .02     -1.673  .969
161    172     1.07   .20     -1.673  .969
181    241     1.07   .02     -1.673  .969
251    291     1.07   .40     -1.673  .969
END OX-REAPARM

```

```

OX-BENPARM
RCHRES   BENOD   TCBOB   EXPOD   BRBOD (A)  BRBOD (2)  EXPREL***
# - #     mg/m2.hr  (-)     /hr     mg/m2.hr  mg/m2.hr  ***
11      50.     1.074   1.22   0.001   0.001     2.82
21      50.     1.074   1.22   0.001   0.001     2.82
31      50.     1.074   1.22   0.001   0.001     2.82
41      50.     1.074   1.22   0.001   0.001     2.82
51      50.     1.074   1.22   0.001   0.001     2.82
52      50.     1.074   1.22   0.001   0.001     2.82

```

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61	50.	1.074	1.22	0.001	0.001	2.82
71	50.	1.074	1.22	0.001	0.001	2.82
81	50.	1.074	1.22	0.001	0.001	2.82
91	50.	1.074	1.22	0.001	0.001	2.82
92	50.	1.074	1.22	0.001	0.001	2.82
101	50.	1.074	1.22	0.001	0.001	2.82
111	50.	1.074	1.22	0.001	0.001	2.82
121	50.	1.074	1.22	0.001	0.001	2.82
131	50.	1.074	1.22	0.001	0.001	2.82
141	50.	1.074	1.22	0.001	0.001	2.82
151	50.	1.074	1.22	0.001	0.001	2.82
161	50.	1.074	1.22	0.001	0.001	2.82
171	50.	1.074	1.22	0.001	0.001	2.82
172	50.	1.074	1.22	0.001	0.001	2.82
181	50.	1.074	1.22	0.001	0.001	2.82
182	50.	1.074	1.22	0.001	0.001	2.82
191	50.	1.074	1.22	0.001	0.001	2.82
201	50.	1.074	1.22	0.001	0.001	2.82
211	50.	1.074	1.22	0.001	0.001	2.82
221	50.	1.074	1.22	0.001	0.001	2.82
231	50.	1.074	1.22	0.001	0.001	2.82
241	50.	1.074	1.22	0.001	0.001	2.82
251	50.	1.074	1.22	0.001	0.001	2.82
261	50.	1.074	1.22	0.001	0.001	2.82
271	50.	1.074	1.22	0.001	0.001	2.82
281	50.	1.074	1.22	0.001	0.001	2.82
291	50.	1.074	1.22	0.001	0.001	2.82

END OX-BENPARM

OX-TCGINV \*\*\*  
 RCHRES TCGINV \*\*\* \*\*\*  
 # - # (-) \*\*\* \*\*\*  
 11 291 1.07 \*\*\*  
 END OX-TCGINV \*\*\*

OX-INIT  
 RCHRES DOX BOD SATDO \*\*\*  
 # - # mg/l mg/l mg/l \*\*\*  
 11 291 10. 1.0 14.  
 END OX-INIT

NUT-FLAGS  
 RCHRES TAM NO2 PO4 AMV DEN ADNH ADPO PHFG \*\*\*  
 # - # \*\*\*  
 11 291 1 0 1 0 1 0 1  
 END NUT-FLAGS

CONV-VAL1  
 RCHRES CVBO CVBPC CVBPN BPCNTC \*\*\*  
 # - # mg/mg mols/mol mols/mol \*\*\*  
 11 291 1.63 106. 16. 49.  
 END CONV-VAL1

NUT-BENPARM  
 RCHRES BRTAM(1) BRTAM(2) BRPO4(1) BRPO4(2) ANAER\*\*\*  
 # - # mg/m2.hr mg/m2.hr mg/m2.hr mg/m2.hr mg/l\*\*\*  
 11 291 0.0 0.0 0.0 0.0 .001  
 END NUT-BENPARM

NUT-NITDENIT  
 RCHRES KTAM20 KNO220 TCNIT KNO320 TCDEN DENOXT \*\*\*  
 # - # /hr /hr /hr /hr mg/l \*\*\*  
 11 .015 .002 1.070 .002 1.04 5.  
 21 .015 .002 1.070 .002 1.04 5.  
 31 .015 .002 1.070 .002 1.04 5.  
 41 .015 .002 1.070 .002 1.04 5.  
 51 .015 .002 1.070 .002 1.04 5.  
 52 .015 .002 1.070 .002 1.04 5.  
 61 .015 .002 1.070 .002 1.04 5.  
 71 .015 .002 1.070 .002 1.04 5.  
 81 .015 .002 1.070 .002 1.04 5.  
 91 .015 .002 1.070 .002 1.04 5.  
 92 .015 .002 1.070 .002 1.04 5.  
 101 .015 .002 1.070 .002 1.04 5.  
 111 .015 .002 1.070 .002 1.04 5.  
 121 .015 .002 1.070 .002 1.04 5.

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131	.015	.002	1.070	.002	1.04	5.
141	.015	.002	1.070	.002	1.04	5.
151	.015	.002	1.070	.002	1.04	5.
161	.015	.002	1.070	.002	1.04	5.
171	.015	.002	1.070	.002	1.04	5.
172	.015	.002	1.070	.002	1.04	5.
181	.015	.002	1.070	.002	1.04	5.
182	.015	.002	1.070	.002	1.04	5.
191	.015	.002	1.070	.002	1.04	5.
201	.015	.002	1.070	.002	1.04	5.
211	.015	.002	1.070	.002	1.04	5.
221	.015	.002	1.070	.002	1.04	5.
231	.015	.002	1.070	.002	1.04	5.
241	.015	.002	1.070	.002	1.04	5.
251	.015	.002	1.070	.002	1.04	5.
261	.015	.002	1.070	.002	1.04	5.
271	.015	.002	1.070	.002	1.04	5.
281	.015	.002	1.070	.002	1.04	5.
291	.015	.002	1.070	.002	1.04	5.

END NUT-NITDENIT

NUT-BEDCONC

RCHRES Bed concentrations of NH4 & PO4 (mg/mg) \*\*\*  
 # - # NH4-sand NH4-silt NH4-clay PO4-sand PO4-silt PO4-clay \*\*\*  
 11 291 0.00010 0.00020 0.00030 0.00005 0.00030 0.00040  
 END NUT-BEDCONC

NUT-ADSPARM

RCHRES Partition coefficients for NH4 AND PO4 (l/mg) \*\*\*  
 # - # NH4-sand NH4-silt NH4-clay PO4-sand PO4-silt PO4-clay \*\*\*  
 11 291 0.0001 0.0001 0.0001 10. 10. 10.  
 END NUT-ADSPARM

NUT-DINIT

RCHRES NO3 TAM NO2 PO4 PH \*\*\*  
 # - # mg/l mg/l mg/l mg/l \*\*\*  
 11 291 1.0 .05 .030 7.  
 END NUT-DINIT

NUT-ADSINIT

RCHRES Initial suspended NH4 and PO4 concentrations (mg/mg) \*\*\*  
 # - # NH4-sand NH4-silt NH4-clay PO4-sand PO4-silt PO4-clay \*\*\*  
 11 291 0. 0. 0. 0. 0. 0.  
 END NUT-ADSINIT

PLNK-FLAGS

RCHRES PHYF ZOOF BALF SDLT AMRF DECF NSFG ZFOO BNFG\*\*\*  
 # - # \*\*\*  
 11 291 0 0 1 0 0 1 0 0 0  
 END PLNK-FLAGS

PLNK-PARM1

RCHRES \*\*\*RATCLP NONREF LITSED ALNPR EXTB MALGR PARADF  
 # - # \*\*\* /ft /hr  
 11 291 .68 .5 0. .35 .30 .120  
 END PLNK-PARM1

PLNK-PARM2

RCHRES \*\*\* CMLLT CMMN CMMNP CMMPTALGRH TALGRL TALGRM  
 # - # \*\*\*ly/min mg/l mg/l mg/l deg F deg F degF  
 11 291 .010 0.025 .0001 .005 85.0 45.0 65.  
 END PLNK-PARM2

PLNK-PARM3

RCHRES ALR20 ALDH ALDL OXALD NALDH PALDH \*\*\*  
 # - # /hr /hr /hr /hr mg/l mg/l \*\*\*  
 11 291 .004 .001 .001 .03 .010 .002  
 END PLNK-PARM3

PHYTO-PARM

RCHRES SEED MXSTAY OREF CLALDH PHYSET REFSET \*\*\*  
 # - # mg/l mg/l ug/l ft/hr ft/hr \*\*\*  
 11 291 1.0 1.5 400. 20. 0.02 0.120  
 END PHYTO-PARM

```

BENAL-PARM
RCHRES      MBAL      CFBALR      CFBALG      ***
# - #      mg/m2
11 291      2000.      0.50      0.80
END BENAL-PARM

PLNK-INIT
RCHRES      PHYTO      ZOO      BENAL      ORN      ORP      ORC ***
# - #      mg/l      org/l      mg/m2      mg/l      mg/l      mg/l ***
11 291      0.5      1000.      0.06      0.02      0.5
END PLNK-INIT

PH-PARM1
RCHRES      PHCN      ALKC ***
# - #      ***
11 291      50      1
END PH-PARM1

PH-PARM2
RCHRES      CFCINV      BRCO2 (1)      BRCO2 (2) ***
# - #      mg/m2/hr      mg/m2/hr ***
11 291      0.913      62.      62.
END PH-PARM2

PH-INIT
RCHRES      TIC      CO2      PH ***
# - #      mg/l      mg/l      ***
11 291      20.      10.      7.0
END PH-INIT

END RCHRES
***

FTABLES
FTABLE      11
*** NEWK 12
ROWS COLS ***
*** Second row added by RAD to prevent depth from dropping under 2"
10      4
DEPTH      AREA      VOLUME      DISCH      FLO-THRU ***
(FE)      (ACRES)      (AC-FT)      (CFS)      (MIN) ***
0.0      0.0      0.0      0.0      0.0
0.2      0.5      0.2      3.0
0.750      2.523      1.76      52.91      24.2
1.500      2.864      3.78      167.42      16.4
2.250      3.205      6.06      331.52      13.3
3.000      3.545      8.59      543.12      11.5
3.750      5.182      11.86      857.56      10.0
4.500      6.818      16.36      1252.16      9.5
5.250      8.455      22.09      1739.96      9.2
6.000      10.091      29.05      2331.95      9.0
END FTABLE 11
FTABLE      21
*** NEWK 6B
ROWS COLS ***
9      4
DEPTH      AREA      VOLUME      DISCH      FLO-THRU ***
(FE)      (ACRES)      (AC-FT)      (CFS)      (MIN) ***
0.0      0.0      0.0      0.0      0.0
1.250      0.461      0.50      134.74      2.7
2.500      0.582      1.15      446.22      1.9
3.750      0.703      1.95      928.13      1.5
5.000      0.824      2.91      1593.97      1.3
5.750      1.115      3.64      2205.20      1.2
6.500      1.406      4.58      2924.57      1.1
7.250      1.697      5.75      3768.42      1.1
8.000      1.988      7.13      4750.26      1.1
END FTABLE 21
FTABLE      31
*** NEWK 6A
ROWS COLS ***
10      4
DEPTH      AREA      VOLUME      DISCH      FLO-THRU ***
(FE)      (ACRES)      (AC-FT)      (CFS)      (MIN) ***
0.0      0.0      0.0      0.0      0.0
1.000      0.773      0.75      17.60      30.9
2.000      0.818      1.55      48.44      23.2

```

3.000	0.864	2.39	86.07	20.1
4.000	0.909	3.27	128.98	18.4
5.000	1.273	4.36	195.44	16.2
6.000	1.636	5.82	278.08	15.2
7.000	2.000	7.64	379.90	14.6
8.000	2.364	9.82	503.42	14.2
9.000	2.730	12.00	630.00	

END FTABLE 31  
 FTABLE 41  
 \*\*\* NEWK 5  
 ROWS COLS \*\*\*  
 9 4

DEPTH (FT)	AREA (ACRES)	VOLUME (AC-FT)	DISCH (CFS)	FLO-THRU (MIN)	***
0.0	0.0	0.0	0.0	0.0	***
0.750	2.355	1.65	59.36	20.1	
1.500	2.673	3.53	187.85	13.6	
2.250	2.991	5.66	371.97	11.0	
3.000	3.309	8.02	609.39	9.6	
3.750	4.836	11.07	962.20	8.4	
4.500	6.364	15.27	1404.94	7.9	
5.250	7.891	20.62	1952.27	7.7	
6.000	9.418	27.11	2616.49	7.5	

END FTABLE 41  
 FTABLE 51  
 \*\*\* NEWK 10  
 ROWS COLS \*\*\*  
 9 4

DEPTH (FT)	AREA (ACRES)	VOLUME (AC-FT)	DISCH (CFS)	FLO-THRU (MIN)	***
0.0	0.0	0.0	0.0	0.0	***
2.000	2.758	4.88	152.03	23.3	
4.000	3.394	11.03	488.08	16.4	
6.000	4.030	18.45	990.92	13.5	
8.000	4.667	27.15	1669.13	11.8	
8.500	5.939	29.80	1916.45	11.3	
9.000	7.212	33.09	2183.50	11.0	
9.500	8.485	37.02	2473.86	10.9	
10.000	9.758	41.58	2790.48	10.8	

END FTABLE 51  
 \*\*\* NEWK 10  
 FTABLE 52  
 ROWS COLS \*\*\*  
 9 4

DEPTH (FT)	AREA (ACRES)	VOLUME (AC-FT)	DISCH (CFS)	FLO-THRU (MIN)	***
0.0	0.0	0.0	0.0	0.0	***
2.000	2.758	4.88	74.24	47.7	
4.000	3.394	11.03	238.34	33.6	
6.000	4.030	18.45	483.89	27.7	
8.000	4.667	27.15	815.08	24.2	
8.500	5.939	29.80	935.85	23.1	
9.000	7.212	33.09	1066.26	22.5	
9.500	8.485	37.02	1208.05	22.2	
10.000	9.758	41.58	1362.66	22.2	

END FTABLE 52  
 FTABLE 61  
 \*\*\* NEWK 11  
 ROWS COLS \*\*\*  
 9 4

DEPTH (FT)	AREA (ACRES)	VOLUME (AC-FT)	DISCH (CFS)	FLO-THRU (MIN)	***
0.0	0.0	0.0	0.0	0.0	***
1.250	1.182	1.42	51.53	20.0	
2.500	1.273	2.95	146.77	14.6	
3.750	1.364	4.60	267.66	12.5	
5.000	1.455	6.36	409.78	11.3	
5.750	3.091	8.07	539.52	10.9	
6.500	4.727	11.00	708.46	11.3	
7.250	6.364	15.16	932.31	11.8	
8.000	8.000	20.55	1224.00	12.2	

END FTABLE 61  
 FTABLE 71  
 \*\*\* NEWK 9  
 ROWS COLS \*\*\*  
 9 4



DEPTH (FT)	AREA (ACRES)	VOLUME (AC-FT)	DISCH (CFS)	FLO-THRU (MIN)	***
0.0	0.0	0.0	0.0	0.0	***
1.500	1.145	1.62	35.85	32.9	***
3.000	1.273	3.44	103.01	24.2	***
4.500	1.400	5.44	190.55	20.7	***
6.000	1.527	7.64	296.48	18.7	***
6.500	2.545	8.65	348.59	18.0	***
7.000	3.564	10.18	408.54	18.1	***
7.500	4.582	12.22	479.10	18.5	***
8.000	5.600	14.76	562.55	19.1	***
END FTABLE 71					
FTABLE 81					
*** NEWK 7					
ROWS COLS ***					
9 4					
DEPTH (FT)	AREA (ACRES)	VOLUME (AC-FT)	DISCH (CFS)	FLO-THRU (MIN)	***
0.0	0.0	0.0	0.0	0.0	***
0.750	2.424	1.48	12.76	84.0	***
1.500	3.333	3.64	45.73	57.7	***
2.250	4.242	6.48	101.19	46.5	***
3.000	5.152	10.00	182.50	39.8	***
3.500	6.970	13.03	268.50	35.2	***
4.000	8.788	16.97	371.79	33.1	***
4.500	10.606	21.82	494.57	32.0	***
5.000	12.424	27.58	638.67	31.3	***
END FTABLE 81					
FTABLE 91					
*** NEWK 8					
ROWS COLS ***					
10 4					
DEPTH (FT)	AREA (ACRES)	VOLUME (AC-FT)	DISCH (CFS)	FLO-THRU (MIN)	***
0.0	0.0	0.0	0.0	0.0	***
1.000	0.265	0.26	19.45	9.7	***
2.000	0.273	0.53	56.06	6.9	***
3.000	0.281	0.81	101.90	5.8	***
4.000	0.289	1.09	154.27	5.1	***
5.000	0.418	1.45	229.79	4.6	***
6.000	0.546	1.93	323.43	4.3	***
7.000	0.675	2.54	438.81	4.2	***
8.000	1.959	3.85	579.84	4.8	***
9.000	3.250	5.20	725.00		***
END FTABLE 91					
FTABLE 92					
*** NEWK 8					
ROWS COLS ***					
10 4					
DEPTH (FT)	AREA (ACRES)	VOLUME (AC-FT)	DISCH (CFS)	FLO-THRU (MIN)	***
0.0	0.0	0.0	0.0	0.0	***
1.000	0.265	0.26	15.88	11.9	***
2.000	0.273	0.53	45.77	8.4	***
3.000	0.281	0.81	83.20	7.0	***
4.000	0.289	1.09	125.96	6.3	***
5.000	0.418	1.45	187.62	5.6	***
6.000	0.546	1.93	264.08	5.3	***
7.000	0.675	2.54	358.28	5.1	***
8.000	1.959	3.85	473.43	5.9	***
16.000	12.000	14.30	1400.00		***
END FTABLE 92					
FTABLE 101					
*** NEWK 20					
ROWS COLS ***					
10 4					
DEPTH (FT)	AREA (ACRES)	VOLUME (AC-FT)	DISCH (CFS)	FLO-THRU (MIN)	***
0.0	0.0	0.0	0.0	0.0	***
0.750	0.509	0.35	5.00	51.5	***
1.500	0.582	0.76	14.74	37.6	***
2.250	0.655	1.23	27.91	31.9	***
3.000	0.727	1.75	44.35	28.6	***
3.500	1.891	2.40	62.03	28.1	***
4.000	3.055	3.64	87.08	30.3	***

4.500	4.218	5.45	122.70	32.3
5.000	5.382	7.85	171.52	33.2
7.000	10.000	17.50	370.00	

END FTABLE101  
 FTABLE 111  
 \*\*\* NEWK 16  
 ROWS COLS \*\*\*  
 9 4

DEPTH (FT)	AREA (ACRES)	VOLUME (AC-FT)	DISCH (CFS)	FLO-THRU (MIN)	***
0.0	0.0	0.0	0.0	0.0	***
1.250	1.064	1.28	20.06	46.3	
2.500	1.145	2.66	57.13	33.8	
3.750	1.227	4.14	104.19	28.9	
5.000	1.309	5.73	159.51	26.1	
5.750	2.782	7.26	210.01	25.1	
6.500	4.255	9.90	275.77	26.1	
7.250	5.727	13.64	362.90	27.3	
8.000	7.200	18.49	476.44	28.2	

END FTABLE111  
 FTABLE 121  
 \*\*\* NEWK 14  
 ROWS COLS \*\*\*  
 10 4

DEPTH (FT)	AREA (ACRES)	VOLUME (AC-FT)	DISCH (CFS)	FLO-THRU (MIN)	***
0.0	0.0	0.0	0.0	0.0	***
0.500	0.879	0.43	4.64	67.5	
1.000	0.909	0.88	14.00	45.6	
1.500	0.939	1.34	26.35	37.0	
2.000	0.970	1.82	41.02	32.2	
3.250	1.273	3.22	97.11	24.1	
4.500	1.576	5.00	174.81	20.8	
5.750	5.333	8.45	276.60	22.2	
7.000	11.394	18.91	481.08	28.5	
17.000	60.000	103.00	2120.00		

END FTABLE121  
 FTABLE 131  
 \*\*\* NEWK 18  
 ROWS COLS \*\*\*  
 10 4

DEPTH (FT)	AREA (ACRES)	VOLUME (AC-FT)	DISCH (CFS)	FLO-THRU (MIN)	***
0.0	0.0	0.0	0.0	0.0	***
0.500	0.382	0.19	2.42	55.9	
1.000	0.400	0.38	7.19	38.5	
1.500	0.418	0.59	13.43	31.7	
2.000	0.436	0.80	20.81	27.9	
3.250	0.800	1.57	51.26	22.3	
4.500	1.164	2.80	98.51	20.6	
5.750	1.527	4.48	166.28	19.6	
7.000	4.509	7.93	249.61	23.1	
25.000	50.000	65.00	1600.00		

END FTABLE131  
 FTABLE 141  
 \*\*\* NEWK 19  
 ROWS COLS \*\*\*  
 10 4

DEPTH (FT)	AREA (ACRES)	VOLUME (AC-FT)	DISCH (CFS)	FLO-THRU (MIN)	***
0.0	0.0	0.0	0.0	0.0	***
0.500	0.571	0.28	2.35	86.7	
1.000	0.591	0.57	7.09	58.5	
1.500	0.611	0.87	13.34	47.4	
2.000	0.630	1.18	20.77	41.3	
2.500	2.994	2.09	32.49	46.7	
3.000	5.358	4.18	53.06	57.1	
3.500	7.721	7.45	86.91	62.2	
4.000	10.085	11.90	137.68	62.7	
20.000	86.000	155.00	1770.00		

END FTABLE141  
 FTABLE 151  
 \*\*\* NEWK 22; 36" CMP CULVERT  
 ROWS COLS \*\*\*  
 \*\*\* Second row added by RAD to prevent depth from dropping under 2"  
 13 4

Depth (ft)	Area (ac)	Vol (ac-ft)	Q (cfs)	*** ***
0.	0.	0.	0.	
0.2	0.00025	0.0001	.0001	
0.4	0.14	0.09	3.7	
0.68	0.28	0.18	13.2	
1.85	0.3	0.36	22.7	
3.54	1.61	1.2	32.2	
4.32	3.82	3.27	41.7	
4.98	5.79	6.45	51.1	
5.73	8.19	11.67	60.6	
6.58	10.58	19.65	70.1	
6.92	11.38	23.34	79.6	
7.01	11.42	24.42	88.8	
7.25	11.49	27.12	133.2	

END FTABLE151  
FTABLE 161  
\*\*\* NEWK 21  
9 4

DEPTH (FT)	AREA (ACRES)	VOLUME (AC-FT)	DISCH (CFS)	FLO-THRU (MIN)	*** ***
0.0	0.0	0.0	0.0	0.0	
0.750	0.286	0.20	19.44	7.6	
1.500	0.318	0.43	59.49	5.2	
2.250	0.350	0.68	114.64	4.3	
3.000	0.382	0.95	183.54	3.8	
5.500	0.594	2.17	598.75	2.6	
8.000	0.806	3.92	1247.21	2.3	
10.500	1.018	6.20	2150.31	2.1	
13.000	1.230	9.02	3330.19	2.0	

END FTABLE161  
FTABLE 171  
\*\*\* NEWK 20  
ROWS COLS \*\*\*  
9 4

DEPTH (FT)	AREA (ACRES)	VOLUME (AC-FT)	DISCH (CFS)	FLO-THRU (MIN)	*** ***
0.0	0.0	0.0	0.0	0.0	
0.750	0.424	0.30	6.04	35.5	
1.500	0.485	0.64	17.79	26.0	
2.250	0.545	1.02	33.69	22.0	
3.000	0.606	1.45	53.54	19.7	
3.500	1.576	2.00	74.88	19.4	
4.000	2.545	3.03	105.12	20.9	
4.500	3.515	4.55	148.12	22.3	
5.000	4.485	6.55	207.05	23.0	

END FTABLE171  
FTABLE 172  
\*\*\* NEWK 19  
ROWS COLS \*\*\*  
10 4

DEPTH (FT)	AREA (ACRES)	VOLUME (AC-FT)	DISCH (CFS)	FLO-THRU (MIN)	*** ***
0.0	0.0	0.0	0.0	0.0	
0.500	0.088	0.04	10.38	3.0	
1.000	0.091	0.09	31.30	2.0	
1.500	0.094	0.13	58.91	1.7	
2.000	0.097	0.18	91.72	1.4	
2.500	0.461	0.32	143.46	1.6	
3.000	0.824	0.64	234.32	2.0	
3.500	1.188	1.15	383.79	2.2	
4.000	1.552	1.83	607.98	2.2	
8.000	5.400	7.70	2575.00		

END FTABLE172  
FTABLE 181  
\*\*\* NEWK 20  
ROWS COLS \*\*\*  
9 4

DEPTH (FT)	AREA (ACRES)	VOLUME (AC-FT)	DISCH (CFS)	FLO-THRU (MIN)	*** ***
0.0	0.0	0.0	0.0	0.0	
0.750	0.530	0.37	4.61	58.2	
1.500	0.606	0.80	13.59	42.5	
2.250	0.682	1.28	25.74	36.1	
3.000	0.758	1.82	40.90	32.3	
3.500	1.970	2.50	57.20	31.7	

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    4.000    3.182    3.79    80.30    34.2
    4.500    4.394    5.68    113.15   36.5
    5.000    5.606    8.18    158.16   37.6
END FTABLE181
FTABLE    182
*** NEWK 19
ROWS COLS ***
  10      4
  DEPTH    AREA    VOLUME    DISCH    FLO-THRU ***
  (FT)     (ACRES)  (AC-FT)   (CFS)    (MIN)     ***
    0.0     0.0      0.0      0.0      0.0
    0.500   0.527   0.26     3.79     49.6
    1.000   0.545   0.53    11.43    33.5
    1.500   0.564   0.80    21.51    27.2
    2.000   0.582   1.09    33.49    23.6
    2.500   2.764   1.93    52.38    26.7
    3.000   4.945   3.85    85.56    32.7
    3.500   7.127   6.87   140.14    35.6
    4.000   9.309   10.98   222.00    35.9
    14.000  50.000  100.00  2000.00
END FTABLE182
FTABLE    191
*** NEWK 17
ROWS COLS ***
  9       4
  DEPTH    AREA    VOLUME    DISCH    FLO-THRU ***
  (FT)     (ACRES)  (AC-FT)   (CFS)    (MIN)     ***
    0.0     0.0      0.0      0.0      0.0
    1.500   0.824   1.20    11.93    73.0
    3.000   0.873   2.47    31.37    57.2
    4.500   0.921   3.82    54.32    51.0
    6.000   0.970   5.24    80.06    47.5
    7.250   1.455   6.75   114.22    42.9
    8.500   1.939   8.87   156.97    41.0
    9.750   2.424   11.60   210.59    40.0
    11.000  10.279  18.62   280.26    48.2
END FTABLE191
FTABLE    201
*** NEWK 20
ROWS COLS ***
  11      4
  DEPTH    AREA    VOLUME    DISCH    FLO-THRU ***
  (FT)     (ACRES)  (AC-FT)   (CFS)    (MIN)     ***
    0.0     0.0      0.0      0.0      0.0
    0.750   0.170   0.12     2.93    29.3
    1.500   0.194   0.25     8.63    21.4
    2.250   0.218   0.41    16.34    18.2
    3.000   0.242   0.58    25.97    16.3
    3.500   0.630   0.80    36.32    16.0
    4.000   1.018   1.21    50.99    17.3
    4.500   1.406   1.82    71.85    18.4
    5.000   1.794   2.62   100.43    18.9
    10.000  5.800   10.75   400.00
    30.000  20.0    45.0   1600.0
END FTABLE201
FTABLE    211
*** NEWK 20
ROWS COLS ***
  10      4
  DEPTH    AREA    VOLUME    DISCH    FLO-THRU ***
  (FT)     (ACRES)  (AC-FT)   (CFS)    (MIN)     ***
    0.0     0.0      0.0      0.0      0.0
    0.750   0.848   0.59     1.46   293.1
    1.500   0.970   1.27     4.32   214.1
    2.250   1.091   2.05     8.17   181.7
    3.000   1.212   2.91    12.98   162.7
    3.500   3.152   4.00    18.16   159.9
    4.000   5.091   6.06    25.50   172.6
    4.500   7.030   9.09    35.92   183.7
    5.000   8.970  13.09    50.22   189.3
    9.000   25.0    45.0    170.0
END FTABLE211
FTABLE    221
*** NEWK 20
ROWS COLS ***
  11      4

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DEPTH      AREA      VOLUME      DISCH      FLO-THRU ***
(FT)      (ACRES)     (AC-FT)     (CFS)      (MIN) ***
0.0        0.0         0.0         0.0        0.0
0.750     0.318      0.22        4.14       38.9
1.500     0.364      0.48        12.20      28.4
2.250     0.409      0.77        23.11      24.1
3.000     0.455      1.09        36.73      21.6
3.500     1.182      1.50        51.37      21.2
4.000     1.909      2.27        72.11      22.9
4.500     2.636      3.41        101.61     24.4
5.000     3.364      4.91        142.03     25.1
15.000    17.900     34.90       950.00
25.000    32.0       65.0        1750.0
END FTABLE221
FTABLE    231
*** NEWK 4B
ROWS COLS ***
10      4
DEPTH      AREA      VOLUME      DISCH      FLO-THRU ***
(FT)      (ACRES)     (AC-FT)     (CFS)      (MIN) ***
0.0        0.0         0.0         0.0        0.0
1.250     1.750      2.15        30.69      51.0
2.500     1.803      4.38        86.63      36.7
3.750     1.856      6.66        155.23     31.2
5.000     1.909      9.02        232.57     28.1
6.000     2.333     11.14       321.09     25.2
7.000     2.758     13.68       423.85     23.4
8.000     3.182     16.65       542.35     22.3
9.000     11.667    24.08       690.18     25.3
19.000    100.0     100.0       2300.0
END FTABLE231
FTABLE    241
*** NEWK 2
ROWS COLS ***
*** Second row added by RAD to prevent depth from dropping under 2"
10      4
DEPTH      AREA      VOLUME      DISCH      FLO-THRU ***
(FT)      (ACRES)     (AC-FT)     (CFS)      (MIN) ***
0.0        0.0         0.0         0.0        0.0
0.2        0.00025    0.0001      .0001      .0001
0.750     0.818      0.51        8.45       43.9
1.500     1.091      1.23        28.86      30.9
2.250     1.364      2.15        61.79      25.2
3.000     1.636      3.27        108.81     21.8
3.500     2.727      4.36        159.15     19.9
4.000     3.818      6.00        222.27     19.6
4.500     4.909      8.18        301.27     19.7
5.000     6.000     10.91       398.74     19.9
END FTABLE241
FTABLE    251
*** NEWK 1
ROWS COLS ***
9      4
DEPTH      AREA      VOLUME      DISCH      FLO-THRU ***
(FT)      (ACRES)     (AC-FT)     (CFS)      (MIN) ***
0.0        0.0         0.0         0.0        0.0
0.750     0.491      0.31        9.62       23.2
1.500     0.655      0.74        32.85      16.3
2.250     0.818      1.29        70.35      13.3
3.000     0.982      1.96       123.89     11.5
3.500     1.527      2.59       180.95     10.4
4.000     2.073      3.49       251.44     10.1
4.500     2.618      4.66       338.22     10.0
5.000     3.164      6.11       443.67     10.0
END FTABLE251
FTABLE    261
*** NEWK 4A
ROWS COLS ***
9      4
DEPTH      AREA      VOLUME      DISCH      FLO-THRU ***
(FT)      (ACRES)     (AC-FT)     (CFS)      (MIN) ***
0.0        0.0         0.0         0.0        0.0
1.000     2.933      2.80       109.55     18.6
2.000     3.200      5.87       347.67     12.3
3.000     3.467      9.20       686.36      9.7
4.000     3.733     12.80     1117.33      8.3

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5.000	4.800	17.07	1718.52	7.2
6.000	5.867	22.40	2446.49	6.6
7.000	6.933	28.80	3313.01	6.3
8.000	8.000	36.27	4328.07	6.1

END FTABLE261  
 FTABLE 271  
 \*\*\* NEWK 4C  
 ROWS COLS \*\*\*  
 9 4

DEPTH (FT)	AREA (ACRES)	VOLUME (AC-FT)	DISCH (CFS)	FLO-THRU (MIN)	***
0.0	0.0	0.0	0.0	0.0	***
1.250	1.159	1.24	16.25	55.2	
2.500	1.500	2.90	51.72	40.7	
3.750	1.841	4.99	105.89	34.2	
5.000	2.182	7.50	180.65	30.1	
5.250	4.909	8.39	203.74	29.9	
5.500	7.636	9.95	230.72	31.3	
5.750	10.364	12.20	263.36	33.6	
6.000	13.091	15.14	303.07	36.3	

END FTABLE271  
 FTABLE 281  
 \*\*\* NEWK 4A  
 ROWS COLS \*\*\*  
 9 4

DEPTH (FT)	AREA (ACRES)	VOLUME (AC-FT)	DISCH (CFS)	FLO-THRU (MIN)	***
0.0	0.0	0.0	0.0	0.0	***
1.000	1.333	1.27	89.00	10.4	
2.000	1.455	2.67	282.45	6.9	
3.000	1.576	4.18	557.60	5.4	
4.000	1.697	5.82	907.72	4.7	
5.000	2.182	7.76	1396.13	4.0	
6.000	2.667	10.18	1987.54	3.7	
7.000	3.152	13.09	2691.50	3.5	
8.000	3.636	16.48	3516.14	3.4	

END FTABLE281  
 FTABLE 291  
 \*\*\* NEWK 3  
 ROWS COLS \*\*\*  
 9 4

DEPTH (FT)	AREA (ACRES)	VOLUME (AC-FT)	DISCH (CFS)	FLO-THRU (MIN)	***
0.0	0.0	0.0	0.0	0.0	***
0.250	2.545	0.60	9.25	47.3	
0.500	2.818	1.27	30.00	30.8	
0.750	3.091	2.01	60.37	24.2	
1.000	3.364	2.82	99.96	20.5	
2.000	4.321	6.66	376.01	12.9	
3.000	5.278	11.46	800.62	10.4	
4.000	6.234	17.22	1372.00	9.1	
5.000	7.191	23.93	2092.65	8.3	

END FTABLE291

END FTABLES

MASS-LINK

<Volume>	<-Grp>	<-Member-><--Mult-->	<Target>	<-Grp>	<-Member->***
<Name>		<Name> # #<-factor->	<Name>		<Name> # #***
MASS-LINK	1				
conversion from acre-inches to acre-ft (1/12)				***	
PERLND PWATER PERO		0.0833333	RCHRES	INFLOW IVOL	
PERLND SEDMNT SOSED	1	0.05	RCHRES	INFLOW ISED	1
PERLND SEDMNT SOSED	1	0.70	RCHRES	INFLOW ISED	2
PERLND SEDMNT SOSED	1	0.25	RCHRES	INFLOW ISED	3
PERLND PWTGAS POHT		1.0	RCHRES	INFLOW IHEAT	
PERLND PWTGAS PODOXM		1.0	RCHRES	INFLOW OXIF	1
PERLND PWATER SURO		6.0	RCHRES	INFLOW PHIF	1
PERLND PWTGAS IOCO2M		50.0	RCHRES	INFLOW PHIF	1
PERLND PWTGAS AOCO2M		50.0	RCHRES	INFLOW PHIF	1
PERLND PQUAL POQUAL	1	1.0	RCHRES	INFLOW NUIF1	1
PERLND PQUAL POQUAL	2	1.0	RCHRES	INFLOW NUIF1	2
PERLND PQUAL POQUAL	3	1.0	RCHRES	INFLOW NUIF1	4
PERLND PQUAL POQUAL	4	0.35	RCHRES	INFLOW OXIF	2
PERLND PQUAL POQUAL	4	0.040	RCHRES	INFLOW PKIF	3
PERLND PQUAL POQUAL	4	0.0030	RCHRES	INFLOW PKIF	4

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PERLND    PQUAL    POQUAL  4      1.20    RCHRES    INFLOW    PKIF    5
PERLND    PQUAL    IOQUAL  5      1.0     RCHRES    INFLOW    ICON    1
PERLND    PQUAL    AOQUAL  5      1.0     RCHRES    INFLOW    ICON    1
PERLND    PWATER    SURO    12.0    RCHRES    INFLOW    ICON    1
PERLND    PQUAL    POQUAL  6      1.0     RCHRES    INFLOW    IDQAL   1
PERLND    PQUAL    POQUAL  7      1.0     RCHRES    INFLOW    IDQAL   2
PERLND    PQUAL    SOQS   2      0.05    RCHRES    INFLOW    ISQAL   1 3
PERLND    PQUAL    SOQS   2      0.35    RCHRES    INFLOW    ISQAL   2 3
PERLND    PQUAL    SOQS   2      0.60    RCHRES    INFLOW    ISQAL   3 3
PERLND    PQUAL    IOQUAL  8      1.0     RCHRES    INFLOW    IDQAL   3
PERLND    PQUAL    AOQUAL  8      1.0     RCHRES    INFLOW    IDQAL   3
PERLND    PQUAL    POQUAL  9      1.0     RCHRES    INFLOW    IDQAL   4
  END MASS-LINK    1

  MASS-LINK    2
IMPLND    IWATER    SURO    0.0833333  RCHRES    INFLOW    IVOL
IMPLND    SOLIDS    SOSLD   1      0.05    RCHRES    INFLOW    ISED    1
IMPLND    SOLIDS    SOSLD   1      0.70    RCHRES    INFLOW    ISED    2
IMPLND    SOLIDS    SOSLD   1      0.25    RCHRES    INFLOW    ISED    3
IMPLND    IWTGAS    SOHT    1.0     RCHRES    INFLOW    IHEAT
IMPLND    IWTGAS    SODOXM  1.0     RCHRES    INFLOW    OXIF    1
IMPLND    IWATER    SURO    3.0     RCHRES    INFLOW    PHIF    1
IMPLND    IQUAL    SOQUAL  1      1.0     RCHRES    INFLOW    NUIF1   1
IMPLND    IQUAL    SOQUAL  2      1.0     RCHRES    INFLOW    NUIF1   2
IMPLND    IQUAL    SOQUAL  3      1.0     RCHRES    INFLOW    NUIF1   4
IMPLND    IQUAL    SOQUAL  4      0.35    RCHRES    INFLOW    OXIF    2
IMPLND    IQUAL    SOQUAL  4      0.040   RCHRES    INFLOW    PKIF    3
IMPLND    IQUAL    SOQUAL  4      0.0040  RCHRES    INFLOW    PKIF    4
IMPLND    IQUAL    SOQUAL  4      1.20    RCHRES    INFLOW    PKIF    5
IMPLND    IWATER    SURO    12.0    RCHRES    INFLOW    ICON    1
IMPLND    IQUAL    SOQUAL  6      1.0     RCHRES    INFLOW    IDQAL   1
IMPLND    IQUAL    SOQUAL  7      1.0     RCHRES    INFLOW    IDQAL   2
IMPLND    IQUAL    SOQS   2      0.05    RCHRES    INFLOW    ISQAL   1 3
IMPLND    IQUAL    SOQS   2      0.35    RCHRES    INFLOW    ISQAL   2 3
IMPLND    IQUAL    SOQS   2      0.60    RCHRES    INFLOW    ISQAL   3 3
IMPLND    IQUAL    SOQUAL  9      1.0     RCHRES    INFLOW    IDQAL   4
  END MASS-LINK    2

  MASS-LINK    3
RCHRES    ROFLOW
  END MASS-LINK    3

  MASS-LINK    4
RCHRES    ROFLOW    COPY    INPUT    MEAN
  END MASS-LINK    4

  MASS-LINK    5
  conversion from acre-inches to acre-ft (1/12)    ***
PERLND    PWATER    PERO    0.0833333  RCHRES    INFLOW    IVOL
PERLND    SEDMNT    SOSED   1      0.05    RCHRES    INFLOW    ISED    1
PERLND    SEDMNT    SOSED   1      0.70    RCHRES    INFLOW    ISED    2
PERLND    SEDMNT    SOSED   1      0.25    RCHRES    INFLOW    ISED    3
PERLND    PWTGAS    POHT    1.0     RCHRES    INFLOW    IHEAT
PERLND    PWTGAS    PODOXM  1.0     RCHRES    INFLOW    OXIF    1
PERLND    PWATER    SURO    5.0     RCHRES    INFLOW    PHIF    1
PERLND    PWTGAS    IOCO2M  30.0    RCHRES    INFLOW    PHIF    1
PERLND    PWTGAS    AOCO2M  30.0    RCHRES    INFLOW    PHIF    1
PERLND    PQUAL    POQUAL  1      1.0     RCHRES    INFLOW    NUIF1   1
PERLND    PQUAL    POQUAL  2      1.0     RCHRES    INFLOW    NUIF1   2
PERLND    PQUAL    POQUAL  3      1.0     RCHRES    INFLOW    NUIF1   4
PERLND    PQUAL    POQUAL  4      0.35    RCHRES    INFLOW    OXIF    2
PERLND    PQUAL    POQUAL  4      0.040   RCHRES    INFLOW    PKIF    3
PERLND    PQUAL    POQUAL  4      0.0030  RCHRES    INFLOW    PKIF    4
PERLND    PQUAL    POQUAL  4      1.20    RCHRES    INFLOW    PKIF    5
PERLND    PQUAL    IOQUAL  5      1.0     RCHRES    INFLOW    ICON    1
PERLND    PQUAL    AOQUAL  5      1.0     RCHRES    INFLOW    ICON    1
PERLND    PWATER    SURO    12.0    RCHRES    INFLOW    ICON    1
PERLND    PQUAL    POQUAL  6      1.0     RCHRES    INFLOW    IDQAL   1
PERLND    PQUAL    POQUAL  7      1.0     RCHRES    INFLOW    IDQAL   2
PERLND    PQUAL    SOQS   2      0.05    RCHRES    INFLOW    ISQAL   1 3
PERLND    PQUAL    SOQS   2      0.35    RCHRES    INFLOW    ISQAL   2 3
PERLND    PQUAL    SOQS   2      0.60    RCHRES    INFLOW    ISQAL   3 3
PERLND    PQUAL    IOQUAL  8      1.0     RCHRES    INFLOW    IDQAL   3
PERLND    PQUAL    AOQUAL  8      1.0     RCHRES    INFLOW    IDQAL   3
PERLND    PQUAL    POQUAL  9      1.0     RCHRES    INFLOW    IDQAL   4
  END MASS-LINK    5

```

Newaukum Creek UCI File

```

    MASS-LINK          90
<-Volume-> <-Grp> <-Member-><--Mult--> <-Target vols> <-Grp> <-Member-> ***
<Name> <Name> x x<-factor-> <Name> <Name> x x ***
PERLND    PWATER SURO          COPY          INPUT MEAN    1
PERLND    PWATER IFWO          COPY          INPUT MEAN    2
PERLND    PWATER AGWO          COPY          INPUT MEAN    3
PERLND    PWATER PET           COPY          INPUT MEAN    4
PERLND    PWATER TAET          COPY          INPUT MEAN    5
PERLND    PWATER UZS           COPY          INPUT MEAN    6
PERLND    PWATER LZS           COPY          INPUT MEAN    7
    END MASS-LINK      90

    MASS-LINK          91
<-Volume-> <-Grp> <-Member-><--Mult--> <-Target vols> <-Grp> <-Member-> ***
<Name> <Name> x x<-factor-> <Name> <Name> x x ***
IMPLND    IWATER SURO          COPY          INPUT MEAN    1
IMPLND    IWATER PET           COPY          INPUT MEAN    4
IMPLND    IWATER IMPEV         COPY          INPUT MEAN    5

    END MASS-LINK      91

END MASS-LINK

END RUN

```