

DATA LOG FOR TRANSECT ID: YK-107

PART 1: USER INPUT

SWAN 1-D / WHAFIS input

station: -1395 ft LON: -70.4143 deg E LAT: 43.3939 deg N

Bottom ELEV: -13.3352 ft-NAVD88

TWL: 9.3596 ft-NAVD88

HS: 5.739 ft TP: 13.2087 sec

Wave Direction bin: 90 deg CCW from East (90 deg sector)

Transect Direction: 102.4838 deg CCW from East

TAW/RUNUP input

toe sta: 0 ft

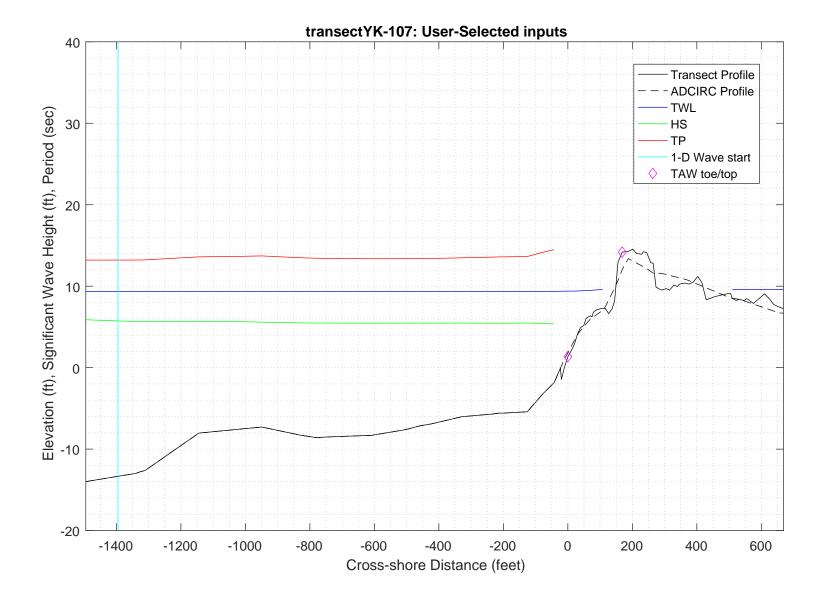
toe elev: 1.3517 ft-NAVD88

top sta: 168.5 ft

top elev: 14.1798 ft-NAVD88

Wave and water level conditions at toe to be calculated in SWAN 1-D

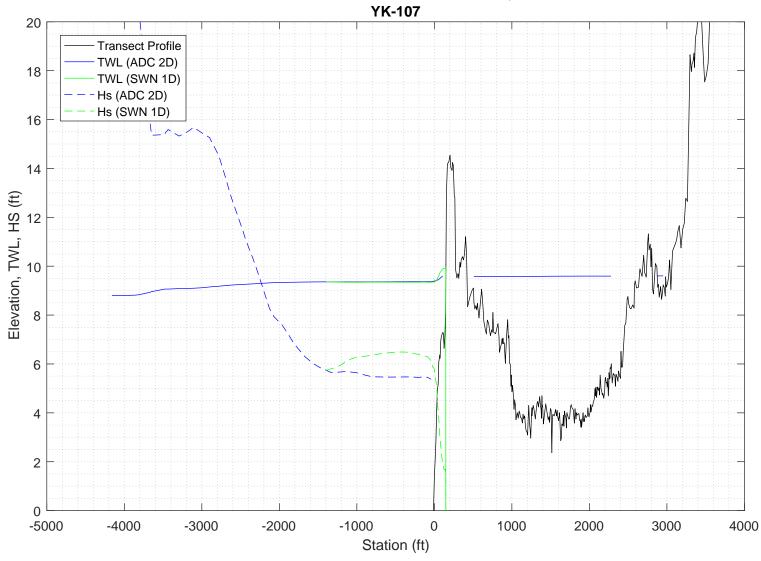
PART 1 COMPLETE_____



PART 2: SWAN 1-D swan input grid name: 2_swan/gridfiles/YK-107zmeters_xmeters.grd swan file name: 2_swan/swanfiles/YK-107.swn swan output name: 2_swan/swanfiles/YK-107.dat Boundary Conditions: TWL- 2.8528 meters HS- 1.7492 meters PER- 13.2087 seconds Batch File: 2_swan/swanfiles/runswan.dat SWAN maximum additional wave setup: 0.61291 feet SWAN output at toe: SETUP- -0.0031758 feet HS- 5.7654 feet PER-13.2478 seconds PART 2 COMPLETE_ SWAN maximum additional wave setup: 0.61291 feet SWAN output at toe: SETUP- -0.0031758 feet HS- 5.7654 feet PER-13.2478 seconds

PART 2 COMPLETE_

2-D ADCIRC+SWAN and SWAN 1-D results, Transect:



SWAN
SIMULATION OF WAVES IN NEAR SHORE AREAS
VERSION NUMBER 41.20A

```
PROJECT '2018FemaAppeal' '1'
  '100-year Wind and Wave conditions'
! -- SET commands ------
SET DEPMIN=0.01 MAXMES=999 MAXERR=3 PWTAIL=4
SET LEVEL 0
SET CARTESIAN
! -- MODE commands -----
MODE STATIONARY ONED
!-- COORDINATES commands-----
COORDINATES CART
! -- computational (CGRID) grid commands ------
                              xlenc=length of grid in meters
! mxc = number of mesh cells (one less than number of grid points)
!CGRID REGular [xpc] [ypc] [alpc] [xlenc] [ylenc] [mxc] [myc] &
     [ CIRcle | SECtor[dir1] [dir2] ] [mdc] [flow] [fhigh] [msc]
             0 0 0
CGRID REGULAR
                                472
                                        0.
                                      0.03
                                            0.8
                                                    30
Resolution in sigma-space: df/f = 0.1157
! -- READgrid --- not used in 1-D mode -----
! -- INPgrid commands ------
!INPgrid BOTtom REGular [xpinp] [ypinp] [alpinp] [mxinp] [myinp] [dxinp] [dyinp]
INPGRID BOTTOM REGULAR 0
                           0
                                   0 472 0
!READinp BOTtom [fac] 'fname1' [idla] [nhedf] [FREe|FORmat[form]|UNFormatted]
       BOTTOM -1. '../gridfiles/YK-107zmeters xmeters.grd' 1
! -- WIND [vel] [dir]
      25.1 0
WIND
! -- BOUnd SHAPespec
BOUND SHAPE JONSWAP 3.3 PEAK DSPR POWER
! -- BOUndspec
! BOU SIDE W CCW CON FILE 'swanspec.txt' 1
BOUN SIDE W CCW CONSTANT PAR 1.7492 13.2087 0 2
!-- \ {\tt BOUndnest1} \ - \ {\tt optional} \ {\tt for} \ {\tt boundary} \ {\tt from} \ {\tt parent} \ {\tt run}
!-- BOUndnest2
!-- BOUndnest3
!-- INITial -- usest to specify initial values
```

```
!----- P H Y S I C S -----
!-- GEN1 [cf10] [cf20] [cf30] [cf40] [edm1pm] [cdrag] [umin] [cfpm]
!-- GEN2 [cf10] [cf20] [cf30] [cf40] [cf50] [cf60] [edm1pm] [cdrag] [umin] [cfpm]
   GEN3 KOMEN
  whitecapping ( on by default)
!-- WCAPping KOMen [cds2] [stpm] [powst] [delta] [powk]
   WCAP KOM
  quadruplet wave interactions
!-- QUADrupl [iquad] [lambda] [Cn14] [Csh1] [Csh2]
! -- BREaking CONstant [alpha] [gamma]
    BREAK
           CON
                    1.
!-- FRICtion JONswap CONstant [cfjon]
   FRIC
          JONSWAP CON
                          0.038
!-- TRIad [itriad] [trfac] [cutfr] [a] [b] [urcrit] [urslim]
! TRIAD
           1 0.65
                          2.5
                              0.95 -0.75 0.2 0.01
 TRIAD
!-- VEGEtation [height] [diamtr] [nstems] [drag]
!-- MUD [layer] [rhom] [viscm]
!- LIMiter [ursell] [qb] deactivates quadruplets with Ursell number exceeds ursell
!-- OBSTacle -- not in 1-D
!-- SETUP [supcor]
  SETUP
         Ω
! ----- N U M E R I C S -----
!-- PROP can use BBST or GSE instead of default
! -- NUMeric -- lots of options
    NUM ACCUR npnts=100. stat 30
    NUMeric STOPC
! -----O U T P U T ------
!OUTPut OPTIons "comment' (TABLE [field]) (BLOck [ndec] [len]) (SPEC [ndec])
OUTPUT OPTIONS '%' TABLE 16
$BLOCK 9 1000 SPEC 8
!CURve 'sname' [xp1] [yp1] <[int] [xp] [yp] >
CURVE 'curve' 0
                 0
                       472 472 0
!TABLe 'sname' < HEADer NOHEADer INDexed > 'fname' <output parameters> (output time)
Table 'curve'
              HEADER 'YK-107.dat' XP YP HSIGN TPS RTP TMM10 DIR &
DSPR DEPTH SETUP
!QUANTITY XP hexp=99999
!-----
COMPUTE STATIONARY
              COMPUTATIONAL PART OF SWAN
```

```
One-dimensional mode of SWAN is activated
Gridresolution
                    : MXC
                                      473 MYC
                                                           1
                     : MCGRD
                                      474
                                       31 MDC
                    : MSC
                                                          36
                    : MTC
                                        1
                    : NSTATC
                                        O TTERMX
                                                          50
Propagation flags
                    : ITFRE
                                        1 IREFR
                                                           1
                    : IBOT
Source term flags
                                        1 ISURF
                                                           1
                    : IWCAP
                                        1 IWIND
                                                           3
                    : ITRIAD
                                        1 IOUAD
                                                           2
                    : IVEG
                                        0 ITURBV
                    : IMUD
                              0.1000E+01 DY
Spatial step
                    : DX
                                                 0.1000E+01
Spectral bin
                    : df/f
                               0.1157E+00 DDIR
                                                 0.1000E+02
                  : GRAV
Physical constants
                               0.9810E+01 RHO
                                                 0.1025E+04
                              0.2510E+02 DIR
Wind input : WSPEED Tail parameters : E(f)
                    : WSPEED
                                                 0.0000E+00
                               0.4000E+01 E(k)
                                                 0.2500E+01
                    : A(f)
                               0.5000E+01 A(k)
                                                  0.3000E+01
Accuracy parameters : DREL
                               0.1000E-01 NPNTS 0.9950E+02
                    : DHABS
                               0.0000E+00 CURVAT 0.5000E-02
                    : GRWMX
                               0.1000E+00
                    : LEVEL
                               0.0000E+00 DEPMIN 0.1000E-01
Drying/flooding
The Cartesian convention for wind and wave directions is used
Scheme for geographic propagation is SORDUP
Scheme geogr. space : PROPSC
                                  2 ICMAX
                               0.5000E+00 CDD
Scheme spectral space: CSS
                                                  0.5000E+00
Current is off
Quadruplets
                    : IQUAD
                    : LAMBDA 0.2500E+00 CNL4
                                                  0.3000E+08
                               0.5500E+01 CSH2
                    : CSH1
                                                  0.8330E+00
                    : CSH3
                              -0.1250E+01
                              0.1000E+01
Maximum Ursell nr for Snl4:
                                        1 TRFAC
                                                0.8000E+00
Triads
                    : ITRIAD
                    : CUTFR
                               0.2500E+01 URCRI 0.2000E+00
                               0.1000E-01
Minimum Ursell nr for Snl3 :
JONSWAP ('73)
                    : GAMMA
                             0.3800E-01
Vegetation is off
Turbulence is off
Fluid mud is off
                   : EMPCOF (CDS2):
: APM (STPM) :
: POWST :
W-cap Komen ('84)
                                      0.2360E-04
W-cap Komen ('84)
                                       0.3020E-02
                    : POWST
W-cap Komen ('84)
                                       0.2000E+01
W-cap Komen ('84)
                    : DELTA
                                       0.1000E+01
W-cap Komen ('84)
                    : POWK
                                  : 0.1000E+01
Wind drag is fit
Snyder/Komen wind input
Battjes&Janssen ('78): ALPHA
                               0.1000E+01 GAMMA 0.7300E+00
                   : SUPCOR 0.0000E+00
Set-up
Diffraction is off
Janssen ('89,'90)
Janssen ('89,'90)
                    : ALPHA
                               0.1000E-01 KAPPA 0.4100E+00
                    : RHOA
                               0.1280E+01 RHOW
                                                  0.1025E+04
1st and 2nd gen. wind: CF10
                               0.1880E+03 CF20
                                                 0.5900E+00
                    : CF30
                               0.1200E+00 CF40
                                                 0.2500E+03
                    : CF50
                               0.2300E-02 CF60
                                                 -0.2230E+00
                               0.0000E+00 CF80
                                               -0.5600E+00
                    : CF70
                               0.1249E-02 EDMLPM 0.3600E-02
                    : RHOAW
                    : CDRAG
                               0.1230E-02 UMIN
                    : LIM_PM
                              0.1300E+00
 First guess by 2nd generation model flags for first iteration:
                        0.1000E+23 ALFA
0 IQUAD 0
 ITER 1 GRWMX
 IWIND
            2 IWCAP
        1 IBOT 1 ISURF
0 ITURBV 0 IMUD
 ITRIAD
                        1 ISURF
                                     1
                                     0
 IVEG
 -----
iteration 1; sweep 1
          1; sweep 2
1; sweep 3
iteration
iteration
iteration
           1; sweep 4
not possible to compute, first iteration
 Options given by user are activated for proceeding calculation:
       2 GRWMX 0.1000E+00 ALFA
                                        0.0000E+00
 ITER
            3 IWCAP
 IWIND
                        1 IQUAD
                                     2
 ITRIAD
           1 IBOT
                        1 ISURF
                                     1
                       0 IMUD
 IVEG
          0 ITURBV
                                     0
 _____
iteration 2; sweep 1
iteration
            2; sweep 2
iteration
            2; sweep 3
            2; sweep 4
iteration
accuracy OK in 25.48 % of wet grid points (99.50 % required)
iteration
            3; sweep 1
            3; sweep 2
iteration
iteration
            3; sweep 3
```

```
iteration \phantom{0} 3; sweep 4 accuracy OK in \phantom{0} 0.22 % of wet grid points ( 99.50 % required)
                4; sweep 1
4; sweep 2
iteration
iteration
iteration 4; sweep 3 iteration 4; sweep 4 accuracy OK in 17.41 % of wet grid points ( 99.50 % required)
                5; sweep 1
5; sweep 2
iteration
iteration
iteration 5; sweep 3
iteration 5; sweep 4
accuracy OK in 45.44 % of wet grid points (99.50 % required)
iteration
                6; sweep 1
                6; sweep 2
iteration
iteration
              6; sweep 3
iteration
                6; sweep 4
accuracy OK in 99.58 % of wet grid points (99.50 % required)
```

STOP

% % Run:1	Table:	curve	SWAN vers	sion:41.20A						
% Xp % [m		Yp [m]	Hsig [m]	TPsmoo [sec]	RTpeak [sec]	Tm_10 [sec]	Dir [degr]	Dspr [degr]	Depth [m]	Setup [m]
6	0.	0.	1.74786	13.1110	12.4477	11.9153	0.025	31.6225	6.9200	0.000000
	1.	0.	1.74914	13.1149	12.4477	11.8783	0.025	31.5848	6.9100	-0.000019
	2.	0.	1.75056	13.1188	12.4477	11.8420	0.025	31.5624	6.9000	-0.000040
	3.	0.	1.75152	13.1226	12.4477	11.8064	0.025	31.5448	6.9000	-0.000038
	4.	0.	1.75279	13.1263	12.4477	11.7721	0.025	31.5132	6.8899	-0.000058
	5. 6.	0.	1.75413	13.1294	13.8874	11.7387	0.025	31.4922	6.8799	-0.000079
	6. 7.	0. 0.	1.75502 1.75635	13.1318 13.1341	13.8874 13.8874	11.7060 11.6745	0.025 0.025	31.4743 31.4572	6.8799 6.8699	-0.000078 -0.000099
	8.	0.	1.75720	13.1341	13.8874	11.6435	0.025	31.4405	6.8699	-0.000099
	9.	0.	1.75834	13.1386	13.8874	11.6137	0.025	31.4089	6.8599	-0.000119
-	10.	0.	1.75957	13.1407	13.8874	11.5847	0.025	31.3871	6.8499	-0.000141
	11.	0.	1.76034	13.1428	13.8874	11.5557	0.025	31.3685	6.8499	-0.000140
-	12.	0.	1.76145	13.1448	13.8874	11.5276	0.025	31.3363	6.8398	-0.000161
	13.	0.	1.76265	13.1468	13.8874	11.5001	0.025	31.3141	6.8298	-0.000182
	14.	0.	1.76339	13.1487	13.8874	11.4727	0.025	31.2977	6.8298	-0.000181
	15.	0.	1.76445	13.1506	13.8874	11.4464	0.025	31.2709	6.8198	-0.000201
	16. 17.	0. 0.	1.76559 1.76615	13.1524 13.1542	13.8874 13.8874	11.4206 11.3950	0.025 0.025	31.2531 31.2264	6.8098 6.8098	-0.000222 -0.000219
	18.	0.	1.76743	13.1542	13.8874	11.3708	0.025	31.1849	6.7897	-0.000219
	19.	0.	1.76819	13.1577	13.8874	11.3466	0.025	31.1387	6.7797	-0.000279
	20.	0.	1.76938	13.1594	13.8874	11.3232	0.026	31.0911	6.7597	-0.000320
	21.	0.	1.77023	13.1610	13.8874	11.2998	0.026	31.0558	6.7497	-0.000340
	22.	0.	1.77111	13.1626	13.8874	11.2768	0.026	31.0245	6.7396	-0.000360
	23.	0.	1.77200	13.1641	13.8874	11.2542	0.026	30.9943	6.7296	-0.000380
	24.	0.	1.77288	13.1657	13.8874	11.2321	0.026	30.9646	6.7196	-0.000400
	25. 26.	0. 0.	1.77361 1.77450	13.1671 13.1686	13.8874 13.8874	11.2103 11.1894	0.026 0.026	30.9242 30.8585	6.7096 6.6895	-0.000420 -0.000461
	20. 27.	0.	1.77563	13.1701	13.8874	11.1693	0.027	30.7739	6.6595	-0.000401
	28.	0.	1.77681	13.1716	13.8874	11.1494	0.027	30.6936	6.6294	-0.000590
	29.	0.	1.77757	13.1730	13.8874	11.1290	0.027	30.6150	6.6094	-0.000632
	30.	0.	1.77867	13.1745	13.8874	11.1094	0.027	30.5259	6.5793	-0.000699
	31.	0.	1.77976	13.1759	13.8874	11.0900	0.028	30.4335	6.5492	-0.000766
	32.	0.	1.78087	13.1773	13.8874	11.0705	0.028	30.3397	6.5192	-0.000836
	33.	0.	1.78212	13.1787	13.8874	11.0510	0.028	30.2560	6.4891	-0.000907
	34. 35.	0. 0.	1.78296 1.78418	13.1801 13.1814	13.8874 13.8874	11.0309 11.0115	0.028 0.028	30.1758 30.0858	6.4690 6.4390	-0.000954 -0.001027
	36.	0.	1.78539	13.1828	13.8874	10.9922	0.029	29.9928	6.4089	-0.001027
	37.	0.	1.78674	13.1841	13.8874	10.9728	0.029	29.9092	6.3788	-0.001177
	38.	0.	1.78765	13.1854	13.8874	10.9530	0.029	29.8291	6.3588	-0.001228
	39.	0.	1.78897	13.1867	13.8874	10.9338	0.029	29.7393	6.3287	-0.001306
	40.	0.	1.79027	13.1880	13.8874	10.9147	0.030	29.6465	6.2986	-0.001386
	41.	0.	1.79169	13.1893	13.8874	10.8957	0.030	29.5631	6.2685	-0.001467
	42.	0.	1.79267	13.1905	13.8874	10.8761	0.030	29.4834	6.2485	-0.001522
	43. 44.	0. 0.	1.79408 1.79547	13.1918 13.1930	13.8874 13.8874	10.8572 10.8382	0.031 0.031	29.3940 29.3018	6.2184 6.1883	-0.001606 -0.001691
	45.	0.	1.79704	13.1943	13.8874	10.8186	0.031	29.2193	6.1582	-0.001777
	46.	0.	1.79817	13.1954	13.8874	10.7983	0.031	29.1405	6.1382	-0.001836
4	47.	0.	1.79973	13.1966	13.8874	10.7785	0.032	29.0523	6.1081	-0.001925
	48.	0.	1.80130	13.1977	13.8874	10.7588	0.032	28.9613	6.0780	-0.002016
	49.	0.	1.80298	13.1989	13.8874	10.7390	0.032	28.8796	6.0479	-0.002108
	50.	0.	1.80420	13.2000	13.8874	10.7186	0.033	28.8016	6.0278	-0.002171
	51.	0.	1.80587	13.2011	13.8874	10.6989	0.033	28.7179	5.9977	-0.002265
	52. 53.	0. 0.	1.80756 1.80935	13.2021 13.2032	13.8874 13.8874	10.6789 10.6590	0.033 0.034	28.6357 28.5630	5.9676 5.9375	-0.002358 -0.002454
	54.	0.	1.81067	13.2042	13.8874	10.6384	0.034	28.4940	5.9175	-0.002434
	55.	0.	1.81245	13.2052	13.8874	10.6184	0.035	28.4169	5.8874	-0.002616
	56.	0.	1.81424	13.2062	13.8874	10.5984	0.036	28.3376	5.8573	-0.002715
	57.	0.	1.81614	13.2071	13.8874	10.5782	0.036	28.2669	5.8272	-0.002816
	58.	0.	1.81757	13.2080	13.8874	10.5572	0.037	28.1995	5.8071	-0.002885
į	59.	0.	1.81949	13.2089	13.8874	10.5367	0.037	28.1238	5.7770	-0.002989

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60. 0. 1.82143 13.2008 13.8974 10.5161 0.038 23.0658 5.7469 -0.003020 63. 0. 1.82331 13.2008 13.8974 10.4990 0.039 27.3772 5.7168 -0.003020 63. 0. 1.82331 13.2008 13.8974 10.4990 0.0412 27.9768 5.6666 0.003335 64. 0. 1.82735 13.2132 13.8874 10.4912 0.0412 27.7468 5.6666 0.003335 65. 0. 1.82735 13.2132 13.8874 10.4912 0.0412 27.7468 5.6666 0.003355 66. 0. 1.183188 13.2132 13.8874 10.4912 0.0412 27.7468 5.6666 0.003355 67. 0. 1.83614 13.2152 13.8874 10.5972 0.065 27.9518 5.5663 -0.003466 68. 0. 1.183188 13.2152 13.8874 10.5972 0.065 27.9518 5.5663 -0.00356 69. 0. 1.83614 13.2152 13.8874 10.5972 0.065 27.9518 5.5663 -0.00356 69. 0. 1.83614 13.2152 13.8874 10.2232 0.0612 27.3618 5.5663 -0.00356 69. 0. 1.83614 13.2152 13.8874 10.2232 0.0612 27.3618 5.5663 -0.00356 69. 0. 1.83616 13.2152 13.8874 10.2238 0.0612 27.3518 5.5663 -0.00356 69. 0. 1.83616 13.2152 13.8874 10.2238 0.0612 27.3518 5.5663 -0.00356 70. 0. 1.86510 13.2152 13.8874 10.2539 0.062 27.3666 5.5664 -0.005117 71. 0. 1.86510 13.2152 13.8874 10.2539 0.062 27.3666 5.4666 72. 0. 1.8652 13.2252 13.8874 10.2539 0.062 27.3666 5.4666 73. 0. 1.8652 13.2252 13.8874 10.1802 0.061 27.2366 5.4666 74. 0. 1.8652 13.2252 13.8874 10.1802 0.061 27.2366 5.4666 75. 0. 1.8652 13.2252 13.8874 10.1802 0.062 27.3666 5.4666 77. 0. 1.8652 13.2252 13.8874 10.1802 0.061 27.2366 5.5664 -0.00428 77. 0. 1.8652 13.2252 13.8874 10.1802 0.061 27.2366 5.5664 -0.00428 77. 0. 1.8652 13.2252 13.8874 10.1802 0.061 27.2366 5.5664 -0.00428 77. 0. 1.8652 13.2252 13.8874 10.1802 0.061 27.2366 5.5664 -0.00428 78. 0. 1.8652 13.2253 13.8874 10.1802 0.061 27.2366 5.5664 -0.00426 78. 0. 1.8652 13.2253 13.8874 10.1802 0.060 0.066 27.3467 5.5664 -0.00426 78. 0. 1.8652 13.2254 13.8874 10.1802 0.060 0.066 27.3467 5.5664 -0.00452 78. 0. 1.8652 13.2254 13.8874 10.1802 0.060 0.066 27.3467 5.5664 -0.00452 78. 0. 1.8652 13.2254 13.8874 10.1802 0.060 0.066 27.3467 5.5664 -0.00452 78. 0. 1.8652 13.2254 13.8874 10.0046 0.066 27.3467 5.5664 -0.00452 78. 0. 0										
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$ \begin{array}{c} 105. \\ 106. \\ 0. \\ 1.89980 \\ 13.2254 \\ 13.8874 \\ 9.5082 \\ 0.034 \\ 27.1244 \\ 5.1847 \\ -0.005309 \\ 1.8974 \\ -0.005304 \\ 1.89780 \\ 13.2255 \\ 13.8874 \\ 9.4932 \\ 0.030 \\ 27.1160 \\ 5.1747 \\ -0.005304 \\ 1.81877 \\ -0.005304 \\ 1.8874 \\ 9.4932 \\ 0.030 \\ 27.1160 \\ 0.024 \\ 27.1171 \\ 5.1747 \\ -0.005341 \\ 5.1747 \\ -0.005341 \\ 108. \\ 0. \\ 1.90255 \\ 13.2254 \\ 13.8874 \\ 9.4965 \\ 0.011 \\ 27.1058 \\ 5.1747 \\ -0.005333 \\ 109. \\ 0. \\ 1.90364 \\ 13.2255 \\ 13.8874 \\ 9.4966 \\ 0.011 \\ 27.1058 \\ 5.1646 \\ -0.005325 \\ 111. \\ 0. \\ 1.90413 \\ 13.2254 \\ 13.8874 \\ 9.4958 \\ 0.005 \\ 27.0997 \\ 5.1647 \\ -0.005344 \\ 112. \\ 0. \\ 1.90511 \\ 13.2254 \\ 13.8874 \\ 9.4106 \\ 359.993 \\ 27.0921 \\ 5.1546 \\ -0.005376 \\ 114. \\ 0. \\ 1.90591 \\ 13.2254 \\ 13.8874 \\ 9.3406 \\ 359.993 \\ 27.0919 \\ 5.1546 \\ -0.005376 \\ 115. \\ 0. \\ 1.90672 \\ 13.2254 \\ 13.8874 \\ 9.3878 \\ 359.987 \\ 27.0853 \\ 5.1547 \\ -0.005376 \\ 115. \\ 0. \\ 1.90704 \\ 13.2254 \\ 13.8874 \\ 9.3878 \\ 359.981 \\ 27.0743 \\ 5.1446 \\ -0.005376 \\ 117. \\ 0. \\ 1.90728 \\ 13.2254 \\ 13.8874 \\ 9.3878 \\ 359.981 \\ 27.0743 \\ 5.1446 \\ -0.005376 \\ 118. \\ 0. \\ 1.90778 \\ 13.2253 \\ 13.8874 \\ 9.3878 \\ 359.964 \\ 27.0611 \\ 5.1447 \\ -0.005376 \\ 120. \\ 0. \\ 1.90798 \\ 13.2253 \\ 13.8874 \\ 9.3555 \\ 359.964 \\ 27.0611 \\ 5.1447 \\ -0.005376 \\ 120. \\ 0. \\ 1.90877 \\ 13.2253 \\ 13.8874 \\ 9.3555 \\ 359.966 \\ 27.0224 \\ 5.1246 \\ -0.005375 \\ 121. \\ 0. \\ 1.90973 \\ 13.2252 \\ 13.8874 \\ 9.3255 \\ 13.8874 \\ 9.3255 \\ 359.950 \\ 27.0163 \\ 5.1246 \\ -0.005375 \\ 122. \\ 0. \\ 1.90973 \\ 13.2252 \\ 13.8874 \\ 9.3255 \\ 13.8874 \\ 9.3255 \\ 359.950 \\ 27.0163 \\ 5.1246 \\ -0.005375 \\ 122. \\ 0. \\ 1.91076 \\ 13.2251 \\ 13.8874 \\ 9.3255 \\ 359.945 \\ 26.9903 \\ 5.1146 \\ -0.005376 \\ 124. \\ 0. \\ 1.91192 \\ 13.2250 \\ 13.8874 \\ 9.2866 \\ 359.943 \\ 26.9731 \\ 5.1146 \\ -0.005386 \\ 5.1146 \\ -0.005386 \\ 125. \\ 0. \\ 1.91192 \\ 13.2250 \\ 13.8874 \\ 9.2866 \\ 359.943 \\ 26.9731 \\ 5.1146 \\ -0.005386 \\ 5.1146 \\ -0.005386 \\ 125. \\ 0. \\ 1.91192 \\ 13.2250 \\ 13.8874 \\ 9.2866 \\ 359.943 \\ 359.943 \\ 369.943 \\ 369.931 \\ 5.1146 \\ -0.005386 \\ 5.1146 \\ -0.005388 \\ 100.005380 \\ 100.005380 \\ 100.005380 \\ 100.00$	104.	0.	1.89755	13.2254		9.5409	0.042	27.1400	5.1947	-0.005270
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117. 0. 1.90728 13.2253 13.8874 9.3650 359.968 27.0611 5.1447 -0.005345 118. 0. 1.90798 13.2253 13.8874 9.3555 359.964 27.0485 5.1346 -0.005374 119. 0. 1.90812 13.2253 13.8874 9.3448 359.960 27.0361 5.1346 -0.005358 120. 0. 1.90877 13.2253 13.8874 9.3358 359.956 27.0224 5.1246 -0.005386 121. 0. 1.90924 13.2252 13.8874 9.3235 359.953 27.0163 5.1246 -0.005375 122. 0. 1.90973 13.2252 13.8874 9.3109 359.950 27.0043 5.1246 -0.005367 123. 0. 1.91076 13.2251 13.8874 9.2995 359.947 26.9903 5.1146 -0.005404 124. 0. 1.91136 13.2251 13.8874 9.2866 359.945 26.9846 5.1146 -0.005386 125. 0. 1.91192 13.2250 13.				13.2254						
118. 0. 1.90798 13.2253 13.8874 9.3555 359.964 27.0485 5.1346 -0.005374 119. 0. 1.90812 13.2253 13.8874 9.3448 359.960 27.0361 5.1346 -0.005358 120. 0. 1.90877 13.2253 13.8874 9.3358 359.956 27.0224 5.1246 -0.005386 121. 0. 1.90924 13.2252 13.8874 9.3235 359.953 27.0163 5.1246 -0.005375 122. 0. 1.90973 13.2252 13.8874 9.3109 359.950 27.0043 5.1246 -0.005367 123. 0. 1.91076 13.2251 13.8874 9.2995 359.947 26.9903 5.1146 -0.005396 124. 0. 1.91136 13.2251 13.8874 9.2866 359.945 26.9846 5.1146 -0.005396 125. 0. 1.91192 13.2250 13.8874 9.2736 359.943 26.9731 5.1146 -0.005388	116.	0.	1.90704	13.2254			359.974	27.0708	5.1446	-0.005361
118. 0. 1.90798 13.2253 13.8874 9.3555 359.964 27.0485 5.1346 -0.005374 119. 0. 1.90812 13.2253 13.8874 9.3448 359.960 27.0361 5.1346 -0.005358 120. 0. 1.90877 13.2253 13.8874 9.3358 359.956 27.0224 5.1246 -0.005386 121. 0. 1.90924 13.2252 13.8874 9.3235 359.953 27.0163 5.1246 -0.005375 122. 0. 1.90973 13.2252 13.8874 9.3109 359.950 27.0043 5.1246 -0.005367 123. 0. 1.91076 13.2251 13.8874 9.2995 359.947 26.9903 5.1146 -0.005396 124. 0. 1.91136 13.2251 13.8874 9.2866 359.945 26.9846 5.1146 -0.005396 125. 0. 1.91192 13.2250 13.8874 9.2736 359.943 26.9731 5.1146 -0.005388	117.	0.	1.90728	13.2253	13.8874	9.3650	359.968	27.0611	5.1447	-0.005345
119. 0. 1.90812 13.2253 13.8874 9.3448 359.960 27.0361 5.1346 -0.005358 120. 0. 1.90877 13.2253 13.8874 9.3358 359.956 27.0224 5.1246 -0.005386 121. 0. 1.90924 13.2252 13.8874 9.3235 359.953 27.0163 5.1246 -0.005375 122. 0. 1.90973 13.2252 13.8874 9.3109 359.950 27.0043 5.1246 -0.005367 123. 0. 1.91076 13.2251 13.8874 9.2995 359.947 26.9903 5.1146 -0.005396 124. 0. 1.91136 13.2251 13.8874 9.2866 359.945 26.9846 5.1146 -0.005396 125. 0. 1.91192 13.2250 13.8874 9.2736 359.943 26.9731 5.1146 -0.005388										
120. 0. 1.90877 13.2253 13.8874 9.3358 359.956 27.0224 5.1246 -0.005386 121. 0. 1.90924 13.2252 13.8874 9.3235 359.953 27.0163 5.1246 -0.005375 122. 0. 1.90973 13.2252 13.8874 9.3109 359.950 27.0043 5.1246 -0.005367 123. 0. 1.91076 13.2251 13.8874 9.2995 359.947 26.9903 5.1146 -0.005404 124. 0. 1.91136 13.2251 13.8874 9.2866 359.945 26.9846 5.1146 -0.005396 125. 0. 1.91192 13.2250 13.8874 9.2736 359.943 26.9731 5.1146 -0.005388										
121. 0. 1.90924 13.2252 13.8874 9.3235 359.953 27.0163 5.1246 -0.005375 122. 0. 1.90973 13.2252 13.8874 9.3109 359.950 27.0043 5.1246 -0.005367 123. 0. 1.91076 13.2251 13.8874 9.2995 359.947 26.9903 5.1146 -0.005404 124. 0. 1.91136 13.2251 13.8874 9.2866 359.945 26.9846 5.1146 -0.005396 125. 0. 1.91192 13.2250 13.8874 9.2736 359.943 26.9731 5.1146 -0.005388										
122. 0. 1.90973 13.2252 13.8874 9.3109 359.950 27.0043 5.1246 -0.005367 123. 0. 1.91076 13.2251 13.8874 9.2995 359.947 26.9903 5.1146 -0.005404 124. 0. 1.91136 13.2251 13.8874 9.2866 359.945 26.9846 5.1146 -0.005396 125. 0. 1.91192 13.2250 13.8874 9.2736 359.943 26.9731 5.1146 -0.005388									5.1240	
123. 0. 1.91076 13.2251 13.8874 9.2995 359.947 26.9903 5.1146 -0.005404 124. 0. 1.91136 13.2251 13.8874 9.2866 359.945 26.9846 5.1146 -0.005396 125. 0. 1.91192 13.2250 13.8874 9.2736 359.943 26.9731 5.1146 -0.005388									5.1246	
124. 0. 1.91136 13.2251 13.8874 9.2866 359.945 26.9846 5.1146 -0.005396 125. 0. 1.91192 13.2250 13.8874 9.2736 359.943 26.9731 5.1146 -0.005388				13.2252					5.1246	
124. 0. 1.91136 13.2251 13.8874 9.2866 359.945 26.9846 5.1146 -0.005396 125. 0. 1.91192 13.2250 13.8874 9.2736 359.943 26.9731 5.1146 -0.005388	123.	0.	1.91076	13.2251	13.8874	9.2995	359.947	26.9903	5.1146	-0.005404
125. 0. 1.91192 13.2250 13.8874 9.2736 359.943 26.9731 5.1146 -0.005388	124.	0.	1.91136		13.8874	9.2866	359.945	26.9846		-0.005396
120. 0. 1.71270 15.2270 15.0071 7.2021 537.712 20.7570 5.1040 -0.005420										
	120.	٠.	1.71270	13.2230	13.00/1	7.2021	557.712	20.7370	3.1010	0.000120

127.	0.	1.91343	13.2249	13.8874	9.2498	359.941	26.9479	5.1046	-0.005415
128.	0.	1.91433	13.2248	13.8874	9.2394	359.939	26.9353	5.0946	-0.005448
129.	0.	1.91476	13.2248	13.8874	9.2277	359.936	26.9312	5.0946	-0.005435
130.	0.	1.91513	13.2247	13.8874	9.2161	359.933	26.9214	5.0946	-0.005421
131.	0.	1.91600	13.2246	13.8874	9.2061	359.930	26.9096	5.0845	-0.005454
132.	0.	1.91645	13.2245	13.8874	9.1944	359.927	26.9062	5.0846	-0.005440
133.	0.	1.91685	13.2244	13.8874	9.1826	359.923	26.8972	5.0846	-0.005427
134.	0.	1.91775	13.2243	13.8874	9.1724	359.920	26.8864	5.0745	-0.005459
135.	0.	1.91815	13.2242	13.8874	9.1606	359.915	26.8765	5.0746	-0.005445
136.	0.	1.91914	13.2241	13.8874	9.1502	359.910	26.8736	5.0645	-0.005477
137.	0.	1.91932	13.2240	13.8874	9.1370	359.905	26.8971	5.0746	-0.005416
138.	0.	1.91957	13.2238	13.8874	9.1240	359.900	26.9290	5.0846	-0.005355
139.	0.	1.91987	13.2236	13.8874	9.1112	359.896	26.9641	5.0947	-0.005295
140.	0.	1.92018	13.2234	13.8874	9.0985	359.892	27.0009	5.1048	-0.005236
141.	0.	1.92041	13.2232	13.8874	9.0860	359.888	27.0271	5.1148	-0.005178
142.	0.	1.92110		13.8874	9.0751	359.884		5.1148	-0.005176
			13.2231				27.0490		
143.	0.	1.92144	13.2229	13.8874	9.0625	359.882	27.0823	5.1249	-0.005109
144.	0.	1.92183	13.2227	13.8874	9.0500	359.880	27.1193	5.1349	-0.005054
145.	0.	1.92222	13.2225	13.8874	9.0379	359.879	27.1579	5.1450	-0.005000
146.	0.	1.92261	13.2223	13.8874	9.0260	359.878	27.1973	5.1551	-0.004945
147.	0.	1.92288	13.2221	13.8874	9.0143	359.877	27.2253	5.1651	-0.004891
148.	0.	1.92361	13.2219	13.8874	9.0042	359.876	27.2488	5.1651	-0.004882
149.	0.	1.92395	13.2217	13.8874	8.9927	359.876	27.2840	5.1752	-0.004829
150.	0.	1.92433	13.2215	13.8874	8.9814	359.875	27.3228	5.1852	-0.004777
	0.	1.92473		13.8874	8.9702	359.874		5.1953	-0.004725
151.			13.2212				27.3632		
152.	0.	1.92513	13.2210	13.8874	8.9592	359.874	27.4042	5.2053	-0.004673
153.	0.	1.92543	13.2208	13.8874	8.9483	359.874	27.4339	5.2154	-0.004623
154.	0.	1.92617	13.2206	13.8874	8.9389	359.874	27.4594	5.2154	-0.004615
155.	0.	1.92651	13.2204	13.8874	8.9283	359.874	27.4967	5.2254	-0.004564
156.	0.	1.92689	13.2202	13.8874	8.9178	359.874	27.5375	5.2355	-0.004513
157.	0.	1.92729	13.2199	13.8874	8.9074	359.874	27.5796	5.2455	-0.004463
158.	0.	1.92768	13.2197	13.8874	8.8972	359.874	27.6221	5.2556	-0.004413
159.	0.	1.92808	13.2195	13.8874	8.8871	359.873	27.6647	5.2656	-0.004363
160.	0.	1.92836	13.2193	13.8874	8.8771	359.872	27.6952	5.2757	-0.004315
161.	0.	1.92906	13.2191	13.8874	8.8688	359.871	27.7212	5.2757	-0.004307
162.	0.	1.92940	13.2188	13.8874	8.8592	359.870	27.7586	5.2857	-0.004260
163.	0.	1.92978	13.2186	13.8874	8.8498	359.870	27.7990	5.2958	-0.004212
164.	0.	1.93016	13.2184	13.8874	8.8405	359.870	27.8405	5.3058	-0.004165
165.	0.	1.93056	13.2182	13.8874	8.8313	359.870	27.8822	5.3159	-0.004119
166.	0.	1.93084	13.2180	13.8874	8.8221	359.870	27.9118	5.3259	-0.004074
167.	0.	1.93154	13.2178	13.8874	8.8146	359.870	27.9376	5.3259	-0.004069
168.	0.	1.93191	13.2176	13.8874	8.8055	359.870	27.9753	5.3360	-0.004024
169.	0.	1.93231	13.2173	13.8874	8.7966	359.871	28.0158	5.3460	-0.003980
170.	0.								
		1.93273	13.2171	13.8874	8.7878	359.871	28.0576	5.3561	-0.003936
171.	0.	1.93314	13.2169	13.8874	8.7791	359.872	28.0999	5.3661	-0.003893
172.	0.	1.93344	13.2167	13.8874	8.7704	359.872	28.1301	5.3762	-0.003850
173.	0.	1.93415	13.2165	13.8874	8.7633	359.872	28.1569	5.3762	-0.003846
174.	0.	1.93443	13.2163	13.8874	8.7546	359.873	28.1837	5.3862	-0.003804
175.	0.	1.93514	13.2162	13.8874	8.7475	359.874	28.2093	5.3862	-0.003801
176.	0.	1.93553	13.2160	13.8874	8.7390	359.874	28.2479	5.3962	-0.003759
177.	0.	1.93583	13.2158	13.8874	8.7305	359.874	28.2768	5.4063	-0.003717
178.	0.	1.93655	13.2156	13.8874	8.7237	359.875	28.3029	5.4063	-0.003715
179.	0.	1.93685	13.2154	13.8874	8.7152	359.875	28.3288	5.4163	-0.003713
180.	0.	1.93758	13.2153	13.8874	8.7083	359.875	28.3535	5.4163	-0.003673
181.	0.	1.93800	13.2151	13.8874	8.6999	359.874	28.3911	5.4264	-0.003633
182.	0.	1.93833	13.2149	13.8874	8.6916	359.873	28.4188	5.4364	-0.003593
183.	0.	1.93906	13.2148	13.8874	8.6850	359.872	28.4444	5.4364	-0.003592
184.	0.	1.93948	13.2146	13.8874	8.6769	359.871	28.4825	5.4464	-0.003553
185.	0.	1.93981	13.2144	13.8874	8.6689	359.871	28.5106	5.4565	-0.003514
186.	0.	1.94054	13.2143	13.8874	8.6624	359.870	28.5374	5.4565	-0.003513
187.	0.	1.94085	13.2141	13.8874	8.6544	359.870	28.5647	5.4665	-0.003474
188.	0.	1.94146	13.2140	13.8874	8.6479	359.870	28.5790	5.4665	-0.003474
189.	0.	1.94205	13.2138	13.8874	8.6414	359.869	28.5916	5.4665	-0.003474
190.	0.	1.94251	13.2137	13.8874	8.6350	359.868	28.5920	5.4665	-0.003473
191.	0.	1.94335	13.2136	13.8874	8.6300	359.868	28.5877	5.4565	-0.003511
192.	0.	1.94389	13.2135	13.8874	8.6233	359.868	28.5935	5.4565	-0.003510
193.	0.	1.94434	13.2134	13.8874	8.6167	359.868	28.5915	5.4565	-0.003510
	•		10.2101	13.3071	0.0107	333.000	20.0710	3.1505	0.000010

194.	0.	1.94518	13.2133	13.8874	8.6118	359.868	28.5857	5.4465	-0.003547
195.	0.	1.94569	13.2132	13.8874	8.6053	359.867	28.5895	5.4465	-0.003547
196.	0.	1.94624	13.2131	13.8874	8.5989	359.866	28.5963	5.4465	-0.003547
197.	0.	1.94671	13.2130	13.8874	8.5924	359.865	28.5939	5.4465	-0.003547
198.	0.	1.94754	13.2129	13.8874	8.5875	359.864	28.5877	5.4364	-0.003585
199.	0.	1.94806	13.2128	13.8874	8.5810	359.862	28.5920	5.4364	-0.003585
	0.	1.94861	13.2127		8.5746			5.4364	
200.				13.8874		359.861	28.5995		-0.003584
201.	0.	1.94917	13.2126	13.8874	8.5683	359.859	28.6083	5.4364	-0.003584
202.	0.	1.94972	13.2125	13.8874	8.5620	359.858	28.6174	5.4364	-0.003583
203.	0.	1.95025	13.2124	13.8874	8.5559	359.858	28.6265	5.4364	-0.003583
204.	0.	1.95068	13.2123	13.8874	8.5497	359.858	28.6250	5.4364	-0.003582
205.	0.	1.95147	13.2122	13.8874	8.5452	359.858		5.4264	-0.003619
							28.6191		
206.	0.	1.95194	13.2121	13.8874	8.5393	359.858	28.6231	5.4264	-0.003618
207.	0.	1.95244	13.2120	13.8874	8.5333	359.859	28.6302	5.4264	-0.003617
208.	0.	1.95294	13.2119	13.8874	8.5274	359.859	28.6382	5.4264	-0.003616
209.	0.	1.95345	13.2119	13.8874	8.5216	359.860	28.6463	5.4264	-0.003615
210.	0.	1.95394	13.2118	13.8874	8.5158	359.861	28.6541	5.4264	-0.003614
211.	0.	1.95434	13.2117	13.8874	8.5099	359.862	28.6520	5.4264	-0.003613
212.	0.	1.95511	13.2116	13.8874	8.5057	359.863	28.6453	5.4163	-0.003650
213.	0.	1.95555	13.2115	13.8874	8.5000	359.864	28.6482	5.4164	-0.003649
214.	0.	1.95600	13.2114	13.8874	8.4945	359.865	28.6534	5.4164	-0.003648
215.	0.	1.95645	13.2114	13.8874	8.4890	359.865	28.6594	5.4164	-0.003646
216.	0.	1.95690	13.2113	13.8874	8.4836	359.866	28.6661	5.4164	-0.003645
217.	0.	1.95736	13.2112	13.8874	8.4782	359.868	28.6732	5.4164	-0.003643
218.	0.	1.95772	13.2111	13.8874	8.4727	359.871	28.6709	5.4164	-0.003641
219.	0.	1.95845	13.2111	13.8874	8.4688	359.872	28.6649	5.4063	-0.003678
220.	0.	1.95886	13.2110	13.8874	8.4633	359.874	28.6690	5.4063	-0.003676
221.	0.	1.95929	13.2109	13.8874	8.4579	359.876	28.6760	5.4063	-0.003674
222.	0.	1.95972	13.2108	13.8874	8.4527	359.878	28.6838	5.4063	-0.003672
223.	0.	1.96014	13.2107	13.8874	8.4475	359.879	28.6918	5.4063	-0.003670
224.	0.	1.96055	13.2107	13.8874	8.4425	359.881	28.6994	5.4063	-0.003667
225.	0.	1.96084	13.2106	13.8874	8.4375	359.882	28.6970	5.4063	-0.003665
226.	0.	1.96148	13.2106	13.8874	8.4342	359.884	28.6897	5.3963	-0.003700
227.	0.	1.96180	13.2105	13.8874	8.4294	359.886	28.6920	5.3963	-0.003697
228.	0.	1.96215	13.2104	13.8874	8.4247	359.888	28.6971	5.3963	-0.003695
229.	0.	1.96251	13.2103	13.8874	8.4200	359.890	28.7031	5.3963	-0.003692
230.	0.	1.96287	13.2103	13.8874	8.4153	359.892	28.7094	5.3963	-0.003689
231.	0.	1.96323	13.2102	13.8874	8.4106	359.894	28.7159	5.3963	-0.003687
232.	0.	1.96349	13.2101	13.8874	8.4060	359.896	28.7123	5.3963	-0.003684
233.	0.	1.96411	13.2101	13.8874	8.4029	359.898	28.7045	5.3863	-0.003720
	0.								
234.		1.96439	13.2100	13.8874	8.3985	359.900	28.7063	5.3863	-0.003716
235.	0.	1.96469	13.2099	13.8874	8.3941	359.903	28.7103	5.3863	-0.003713
236.	0.	1.96499	13.2099	13.8874	8.3898	359.905	28.7149	5.3863	-0.003709
237.	0.	1.96529	13.2098	13.8874	8.3855	359.907	28.7194	5.3863	-0.003706
238.	0.	1.96557	13.2097	13.8874	8.3813	359.909	28.7238	5.3863	-0.003702
239.	0.	1.96575	13.2097	13.8874	8.3772	359.912	28.7187	5.3863	-0.003698
240.	0.	1.96630	13.2096	13.8874	8.3747	359.914	28.7094	5.3763	-0.003733
241.	0.	1.96642	13.2096	13.8874	8.3705	359.916	28.7004	5.3763	-0.003729
242.	0.	1.96684	13.2095	13.8874	8.3680	359.918	28.6796	5.3662	-0.003764
243.	0.	1.96731	13.2095	13.8874	8.3656	359.920	28.6643	5.3562	-0.003799
244.	0.	1.96739	13.2094	13.8874	8.3616	359.921	28.6523	5.3562	-0.003794
245.	0.	1.96779	13.2094	13.8874	8.3592	359.922	28.6308	5.3462	-0.003829
246.	0.	1.96826	13.2094	13.8874	8.3567	359.924	28.6164	5.3361	-0.003863
247.	0.	1.96835	13.2093	13.8874	8.3526	359.925	28.6061	5.3361	-0.003858
248.	0.	1.96876		13.8874	8.3500	359.926			-0.003893
			13.2093				28.5860	5.3261	
249.	0.	1.96922	13.2092	13.8874	8.3475	359.927	28.5719	5.3161	-0.003927
250.	0.	1.96929	13.2092	13.8874	8.3434	359.928	28.5610	5.3161	-0.003922
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251.	0.	1.96967	13.2091	13.8874	8.3410		28.5400	5.3060	-0.003956
252.	0.	1.97010	13.2091	13.8874	8.3387	359.931	28.5251	5.2960	-0.003990
253.	0.	1.97015	13.2090	13.8874	8.3347	359.933	28.5138	5.2960	-0.003983
254.	0.	1.97051	13.2090	13.8874	8.3323	359.935	28.4926	5.2860	-0.004018
255.	0.	1.97093	13.2090	13.8874	8.3300	359.937	28.4775	5.2759	-0.004051
256.	0.	1.97093	13.2089	13.8874	8.3262	359.939	28.4650	5.2760	-0.004044
257.	0.	1.97126	13.2089	13.8874	8.3240	359.941	28.4421	5.2659	-0.004078
258.	0.	1.97164	13.2088	13.8874	8.3219	359.942	28.4256	5.2559	-0.004111
259.	0.	1.97163	13.2087	13.8874	8.3181	359.942	28.4128	5.2559	-0.004103
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261.	0.	1.97238	13.2087	13.8874	8.3134	359.945	28.3760	5.2358	-0.004170
262.	0.	1.97240	13.2086	13.8874	8.3092	359.946	28.3651	5.2358	-0.004161
263.	0.	1.97277	13.2085	13.8874	8.3066	359.947	28.3452	5.2258	-0.004195
264.	0.	1.97319	13.2085	13.8874	8.3042	359.949	28.3311	5.2158	-0.004229
265.	0.	1.97319	13.2084	13.8874	8.3001	359.950	28.3195	5.2158	-0.004220
266.	0.	1.97353	13.2084	13.8874	8.2977	359.951	28.2981	5.2057	-0.004254
267.	0.	1.97393	13.2083	13.8874	8.2953	359.951	28.2827	5.1957	-0.004288
268.	0.	1.97392	13.2083	13.8874	8.2912	359.952	28.2705	5.1957	-0.004279
269.	0.	1.97426	13.2082	13.8874	8.2887	359.953	28.2489	5.1857	-0.004312
270.	0.	1.97466	13.2082	13.8874	8.2863	359.954	28.2338	5.1757	-0.004345
271.	0.	1.97464	13.2081	13.8874	8.2822	359.956	28.2224	5.1757	-0.004335
272.	0.	1.97496	13.2080	13.8874	8.2798	359.956	28.2009	5.1656	-0.004368
273.	0.	1.97523	13.2080	13.8874	8.2774	359.956	28.1759	5.1556	-0.004401
274.	0.	1.97550	13.2080	13.8874	8.2750	359.956	28.1504	5.1456	-0.004435
275.	0.	1.97576	13.2079	13.8874	8.2726	359.956	28.1250	5.1355	-0.004467
276.	0.	1.97598	13.2079	13.8874	8.2704	359.956	28.0989	5.1255	-0.004499
277.	0.	1.97618	13.2078	13.8874	8.2682	359.956	28.0727	5.1155	-0.004531
278.	0.	1.97638	13.2078	13.8874	8.2660	359.957	28.0464	5.1054	-0.004562
279.	0.	1.97656	13.2078	13.8874	8.2638	359.957	28.0201	5.0954	-0.004592
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281.	0.	1.97681	13.2077	13.8874	8.2595	359.957	27.9587	5.0753	-0.004653
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284.	0.	1.97757	13.2076	13.8874	8.2541	359.958	27.8601	5.0352	-0.004788
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287.	0.	1.97771	13.2074	13.8874	8.2458	359.957	27.8017	5.0152	-0.004827
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293.	0.	1.97783	13.2071	13.8874	8.2289	359.956	27.6877	4.9751	-0.004893
294.	0.	1.97790	13.2071	13.8874	8.2267	359.956	27.6609	4.9651	-0.004919
295.	0.	1.97803	13.2071	13.8874	8.2246	359.955	27.6414	4.9551	-0.004945
296.	0.	1.97771	13.2070	13.8874	8.2207	359.955	27.6259	4.9551	-0.004922
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307.	0.	1.97704	13.2067	13.8874	8.1953	359.959	27.3331	4.8549	-0.005117
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317.	0.	1.97526	13.2065	13.8874	8.1733	359.965	27.0436	4.7547	-0.005274
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323.	0.	1.97309	13.2065	13.8874	8.1582	359.969	26.8910	4.7047	-0.005275
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325.	0.	1.97232	13.2065	13.8874	8.1539	359.969	26.8310	4.6847	-0.005287
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328.	0.	1.97046	13.2065	13.8874	8.1437	359.972	26.7855	4.6748	-0.005189
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362.	0.	1.94791	13.2083	13.8874	8.0311	0.013	26.4173	4.5460	-0.003977
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374.	0.	1.93767	13.2095	13.8874	7.9904	0.021	26.3575	4.5267	-0.003333
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390.	0.	1.92668	13.2122	13.8874	7.9672	0.037	25.8810	4.3567	-0.003268
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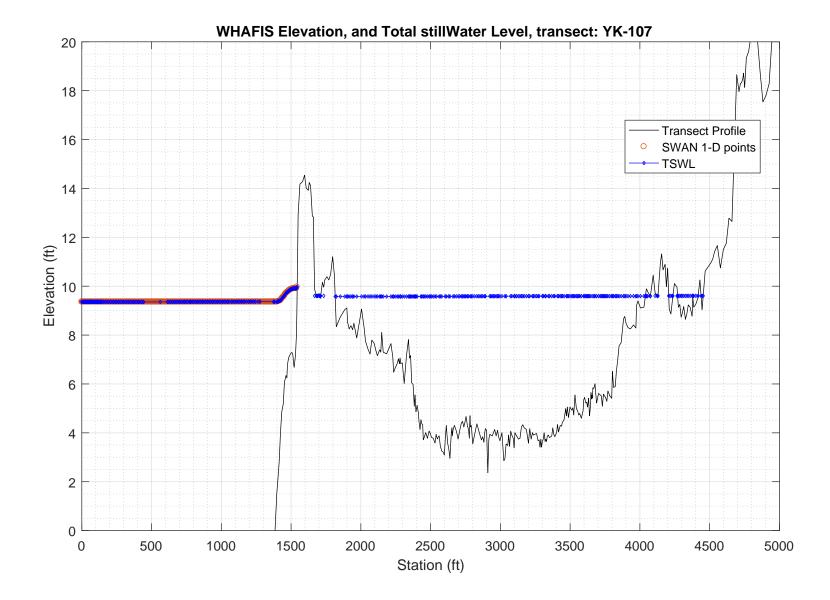
395.	0.	1.92370	13.2145	13.8874	7.9993	0.038	25.2227	4.1259	-0.004126
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405.	0.	1.89807	13.2214	13.8874	8.0652	0.039	23.7877	3.6953	-0.004710
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407.	0.	1.88938	13.2233	13.8874	8.0767	0.044	23.4943	3.6154	-0.004566
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410.	0.	1.87430	13.2265	13.8874	8.0915	0.061	23.0439	3.4958	-0.004186
411.	0.	1.86878	13.2276	13.8874	8.0953	0.071	22.8914	3.4560	-0.004014
412.	0.	1.86271	13.2288	13.8874	8.0987	0.083	22.7032	3.4162	-0.003819
413.	0.	1.85849	13.2303	13.8874	8.1113	0.098	22.4477	3.3360	-0.003978
414.	0.	1.85398	13.2320	13.8874	8.1256	0.119	22.1547	3.2458	-0.004185
415.	0.	1.84846	13.2338	13.8874	8.1386	0.146	21.8439	3.1557	-0.004322
416.	0.	1.84182	13.2357	13.8874	8.1504	0.178	21.5282	3.0656	-0.004363
417.	0.	1.83392	13.2377	13.8874	8.1610	0.214	21.2112	2.9757	-0.004291
	0.								
418.		1.82789	13.2397	13.8874	8.1700	0.257	21.3864	2.8860	-0.004045
419.	0.	1.79038	13.2394	13.8874	8.0678	0.290	21.8717	3.2412	0.001169
420.	0.	1.78695	13.2407	13.8874	8.0789	0.316	21.7124	3.1510	0.000988
421.	0.	1.78686	13.2425	13.8874	8.1054	0.357	21.2942	2.9900	0.000037
422.	0.	1.78416	13.2442	13.8874	8.1282	0.404	20.8133	2.8393	-0.000739
423.	0.	1.77711	13.2457	13.8874	8.1411	0.462	20.3221	2.7190	-0.000993
424.	0.	1.76885	13.2470	13.8874	8.1538	0.531	19.8144	2.5888	-0.001199
425.	0.	1.75730	13.2478	13.8874	8.1607	0.611	19.3535	2.4690	-0.000968
426.	0.	1.73926	13.2481	13.8874	8.1553	0.692	18.9869	2.3903	0.000312
427.	0.	1.71876	13.2478	13.8874	8.1449	0.783	18.6610	2.3220	0.002007
428.	0.	1.69686	13.2471	13.8874	8.1329	0.878	18.3383	2.2539	0.003911
429.	0.	1.67465	13.2461	13.8874	8.1219	0.978	18.0025	2.1758	0.005831
430.	0.	1.65074	13.2448	13.8874	8.1088	1.082	17.6600	2.0980	0.008016
431.	0.	1.62509	13.2433	13.8874	8.0931	1.192	17.2808	2.0205	0.010465
432.	0.	1.60137	13.2419	13.8874	8.0811	1.315	16.8145	1.9125	0.012488
433.	0.	1.57677	13.2405	13.8874	8.0686	1.454	16.2830	1.7846	0.014571
434.	0.	1.54696	13.2391	13.8874	8.0505	1.600	15.7741	1.6576	0.017601
435.	0.	1.50269	13.2374	13.8874	8.0434	1.658	15.3123	1.5632	0.023244
436.	0.	1.45271	13.2357	13.8874	8.0376	1.694	14.8856	1.4801	0.030105
437.	0.	1.39958	13.2341	13.8874	8.0295	1.734	14.5491	1.4078	0.037819
438.	0.	1.33947	13.2326	13.8874	8.0151	1.775	14.3283	1.3871	0.047119
439.	0.	1.28376	13.2314	13.8874	8.0092	1.808	14.1514	1.3655	0.055503
440.	0.	1.25644	13.2302	13.8874	7.8403	2.344	14.0481	1.3400	0.060031
441.	0.	1.22261	13.2297	13.8874	7.7965	2.551	13.6977	1.2546	0.064625
442.	0.	1.17849	13.2302	13.8874	7.8171	2.531	13.2367	1.1407	0.070730
443.	0.	1.12323	13.2315	13.8874	7.8399	2.462	12.8828	1.0695	0.079494
444.	0.	1.06340	13.2321	13.8874	7.8169	2.508	12.6618	1.0596	0.089615
445.	0.	1.01258	13.2326	13.8874	7.7649	2.697	12.6611	1.0481	0.098086
446.	0.	0.96615	13.2329	13.8874	7.7459	2.801	12.6219	1.0254	0.105394
447.	0.	0.91883	13.2330	13.8874	7.7304	2.897	12.6876	1.0427	0.112741
448.	0.	0.87766	13.2330	13.8874	7.7216	2.917	12.5276	1.0687	0.118661
449.	0.	0.85947	13.2337	13.8874	7.7620	2.864	12.1151	0.9405	0.120461
450.	0.	0.82634	13.2343	13.8874	7.7804	2.844	11.8041	0.8852	0.125206
451.	0.	0.78873	13.2351	13.8874	7.7873	2.851	11.5775	0.8609	0.130904
452.	0.	0.75357	13.2362	13.8874	7.7945	2.871	11.4001	0.8362	0.136162
453.	0.	0.71957	13.2376	13.8874	7.8026	2.916	11.2834	0.8212	0.141207
454.	0.	0.68790	13.2392	13.8874	7.8078	2.979	11.2069	0.8158	0.145811
455.	0.	0.66039	13.2412	13.8874	7.8104	3.041	11.1450	0.8097	0.149672
456.	0.	0.63623	13.2433	13.8874	7.8123	3.101	11.0886	0.8030	0.152957
457.	0.	0.61481	13.2456	13.8874	7.8139	3.159	11.0349	0.7958	0.155791
458.	0.	0.59564	13.2479	13.8874	7.8151	3.221	10.9981	0.7883	0.158268
459.	0.	0.57741	13.2502	13.8874	7.8121	3.296	11.0190	0.7906	0.160601
460.	0.	0.56059	13.2524	13.8874	7.8046	3.388	11.1189	0.8027	0.162711
461.	0.	0.54560	13.2542	13.8874	7.7925	3.521	11.3924	0.8246	0.164553
101.	٠.	0.51500	10.2012	13.30/1	, , , , , , ,	J.JLI	11.0041	0.0210	0.10100

462.	0.	0.52966	13.2556	13.8874	7.7647	3.696	11.8486	0.8865	0.166472
463.	0.	0.51770	13.2564	13.8874	7.7363	3.860	12.2962	0.9478	0.167816
464.	0.	0.51000	13.2571	13.8874	7.7158	3.917	12.3965	0.9886	0.168598
465.	0.	0.51257	13.2582	13.8874	7.7329	3.870	12.1983	0.9282	0.168229
466.	0.	0.51305	13.2595	13.8874	7.7489	3.800	11.9009	0.8780	0.168045
467.	0.	0.51292	13.2612	13.8874	7.7708	3.666	11.4027	0.8179	0.167858
468.	0.	0.51701	13.2643	13.8874	7.8247	3.481	10.6888	0.6869	0.166940
469.	0.	0.51121	13.2695	13.8874	7.8832	3.110	9.4948	0.5672	0.167208
470.	0.	0.40475	13.4239	13.8874	9.1657	0.492	10.9966	0.2668	0.186816
471.	0.	-9.00000	-9.0000	-9.0000	-9.0000	-999.000	-9.0000	-99.0000	-9.000000
472.	0.	-9.00000	-9.0000	-9.0000	-9.0000	-999.000	-9.0000	-99.0000	-9.000000

PART 3: WHAFIS

WHAFIS input: YK-107.dat WHAFIS output: YK-107.out

PART 3 COMPLETE___



WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (WHAFIS VERSION 4.0G, 08_2007)

Executed on: Thu Apr 2 11:05:19 2020

Input file: C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Kennebunkport\3_whafis\whafis4\YK-107.dat
Output file: C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Kennebunkport\3_whafis\whafis4\YK-107.out
header

THIS IS A 100-YEAR CASE

THE FOLLOWING NON-DEFAULT WIND SPEEDS ARE BEING USED

WINDLE 56 14 WINDLE 5

			THE FOLLO			SPEEDS ARE	BEING USED 60.00			
T.D.	0.000	12 225	1.000	1.000	PART1 INE	PUT		FC 140	0.007	0.000
IE OF	3.000	-13.335 -13.315	0.000	9.360	9.360 0.000	9.182 0.000	13.209	56.140 0.000	0.007	0.000
OF	4.000	-13.309	0.000	9.360	0.000	0.000	0.000	0.000	0.007	0.000
OF OF	9.000 10.000	-13.276 -13.270	0.000	9.360 9.360	0.000	0.000	0.000	0.000	0.007 0.007	0.000
OF	15.000	-13.270	0.000	9.360	0.000	0.000	0.000	0.000	0.007	0.000
OF	16.000	-13.231	0.000	9.360	0.000	0.000	0.000	0.000	0.007	0.000
OF OF	21.000 22.000	-13.198 -13.192	0.000	9.360 9.360	0.000	0.000	0.000	0.000	0.007 0.006	0.000
OF	27.000	-13.160	0.000	9.360	0.000	0.000	0.000	0.000	0.007	0.000
OF	28.000 33.000	-13.153 -13.121	0.000	9.360 9.360	0.000	0.000	0.000	0.000	0.007 0.007	0.000
OF OF	34.000	-13.121	0.000	9.360	0.000	0.000	0.000	0.000	0.007	0.000
OF	39.000	-13.082	0.000	9.360	0.000	0.000	0.000	0.000	0.007	0.000
OF OF	40.000 45.000	-13.075 -13.043	0.000	9.360 9.360	0.000	0.000	0.000	0.000	0.007 0.007	0.000
OF	46.000	-13.036	0.000	9.360	0.000	0.000	0.000	0.000	0.007	0.000
OF OF	51.000 52.000	-13.004 -12.997	0.000	9.360 9.360	0.000	0.000	0.000	0.000	0.007	0.000
OF	57.000	-12.951	0.000	9.360	0.000	0.000	0.000	0.000	0.010	0.000
OF	58.000	-12.937	0.000	9.361	0.000	0.000	0.000	0.000	0.014	0.000
OF OF	63.000 64.000	-12.865 -12.851	0.000	9.361 9.361	0.000	0.000	0.000	0.000	0.014	0.000
OF	69.000	-12.780	0.000	9.361	0.000	0.000	0.000	0.000	0.014	0.000
OF OF	70.000 76.000	-12.766 -12.701	0.000	9.361 9.361	0.000	0.000	0.000	0.000	0.011 0.011	0.000
OF	79.000	-12.670	0.000	9.361	0.000	0.000	0.000	0.000	0.010	0.000
OF	84.000	-12.617	0.000	9.360	0.000	0.000	0.000	0.000	0.013	0.000
OF OF	85.000 90.000	-12.590 -12.452	0.000	9.360 9.360	0.000	0.000	0.000	0.000	0.027 0.028	0.000
OF	91.000	-12.424	0.000	9.360	0.000	0.000	0.000	0.000	0.028	0.000
OF OF	96.000 97.000	-12.286 -12.259	0.000	9.360 9.360	0.000	0.000	0.000	0.000	0.027 0.027	0.000
OF	102.000	-12.121	0.000	9.360	0.000	0.000	0.000	0.000	0.027	0.000
OF	103.000	-12.094	0.000	9.360	0.000	0.000	0.000	0.000	0.027	0.000
OF OF	108.000 109.000	-11.956 -11.928	0.000	9.360 9.360	0.000	0.000	0.000	0.000	0.028 0.027	0.000
OF	114.000	-11.791	0.000	9.360	0.000	0.000	0.000	0.000	0.027	0.000
OF OF	115.000 120.000	-11.763 -11.625	0.000	9.360 9.360	0.000	0.000	0.000	0.000	0.028 0.027	0.000
OF	121.000	-11.598	0.000	9.360	0.000	0.000	0.000	0.000	0.027	0.000
OF OF	126.000 127.000	-11.460 -11.432	0.000	9.359 9.359	0.000	0.000	0.000	0.000	0.028 0.027	0.000
OF	132.000	-11.432	0.000	9.359	0.000	0.000	0.000	0.000	0.027	0.000
OF	133.000	-11.267	0.000	9.359	0.000	0.000	0.000	0.000	0.028	0.000
OF OF	139.000 144.000	-11.102 -10.964	0.000	9.359 9.359	0.000	0.000	0.000	0.000	0.027 0.028	0.000
OF	145.000	-10.936	0.000	9.359	0.000	0.000	0.000	0.000	0.028	0.000
OF OF	156.000 157.000	-10.633 -10.606	0.000	9.359 9.359	0.000	0.000	0.000	0.000	0.027 0.027	0.000
OF	168.000	-10.303	0.000	9.359	0.000	0.000	0.000	0.000	0.028	0.000
OF	169.000	-10.275 -9.973	0.000	9.359	0.000	0.000	0.000	0.000	0.027	0.000
OF OF	180.000 181.000	-9.973 -9.945	0.000	9.358 9.358	0.000	0.000	0.000	0.000	0.027 0.027	0.000
OF	192.000	-9.642	0.000	9.358	0.000	0.000	0.000	0.000	0.028	0.000
OF OF	193.000 204.000	-9.615 -9.311	0.000	9.358 9.358	0.000	0.000	0.000	0.000	0.028 0.027	0.000
OF	205.000	-9.284	0.000	9.358	0.000	0.000	0.000	0.000	0.027	0.000
OF OF	216.000 217.000	-8.981 -8.953	0.000	9.358 9.358	0.000	0.000	0.000	0.000	0.027 0.027	0.000
OF	228.000	-8.650	0.000	9.358	0.000	0.000	0.000	0.000	0.028	0.000
OF	229.000	-8.623 -8.320	0.000	9.358	0.000	0.000	0.000	0.000	0.028 0.028	0.000
OF OF	240.000 241.000	-8.320 -8.292	0.000	9.357 9.357	0.000	0.000	0.000	0.000	0.028	0.000
OF	250.000	-8.044	0.000	9.357	0.000	0.000	0.000	0.000	0.026	0.000
OF OF	251.000 262.000	-8.031 -7.988	0.000	9.357 9.357	0.000	0.000	0.000	0.000	0.005	0.000
OF	263.000	-7.985	0.000	9.357	0.000	0.000	0.000	0.000	0.004	0.000
OF	274.000 275.000	-7.942 -7.939	0.000	9.357	0.000	0.000	0.000	0.000	0.004	0.000
OF OF	286.000	-7.896	0.000	9.357 9.357	0.000	0.000	0.000	0.000	0.004	0.000
OF	287.000	-7.893	0.000	9.357	0.000	0.000	0.000	0.000	0.004	0.000
OF OF	298.000 299.000	-7.851 -7.847	0.000	9.356 9.356	0.000	0.000	0.000	0.000	0.004	0.000
OF	310.000	-7.805	0.000	9.356	0.000	0.000	0.000	0.000	0.004	0.000
OF	311.000	-7.801	0.000	9.356	0.000	0.000	0.000	0.000	0.004	0.000
OF OF	322.000 323.000	-7.759 -7.755	0.000	9.356 9.356	0.000	0.000	0.000	0.000	0.004	0.000
OF	334.000	-7.713	0.000	9.356	0.000	0.000	0.000	0.000	0.004	0.000
OF OF	335.000 346.000	-7.709 -7.667	0.000	9.356 9.356	0.000	0.000	0.000	0.000	0.004	0.000
OF	347.000	-7.663	0.000	9.356	0.000	0.000	0.000	0.000	0.004	0.000
OF	358.000	-7.621	0.000	9.356	0.000	0.000	0.000	0.000	0.004	0.000
OF OF	359.000 370.000	-7.617 -7.575	0.000	9.356 9.356	0.000	0.000	0.000	0.000	0.004	0.000
OF	371.000	-7.571	0.000	9.356	0.000	0.000	0.000	0.000	0.004	0.000
OF OF	382.000 383.000	-7.529 -7.525	0.000	9.356 9.356	0.000	0.000	0.000	0.000	0.004	0.000
OF	394.000	-7.483	0.000	9.356	0.000	0.000	0.000	0.000	0.004	0.000
OF	395.000	-7.479	0.000	9.356	0.000	0.000	0.000	0.000	0.004	0.000
OF OF	406.000 407.000	-7.438 -7.434	0.000	9.356 9.356	0.000	0.000	0.000	0.000	0.004	0.000
OF	418.000	-7.393	0.000	9.356	0.000	0.000	0.000	0.000	0.004	0.000

OF OF OF OF OF	419.000 430.000 431.000 442.000 443.000 562.000 614.000	-7.389 -7.348 -7.344 -7.302 -7.299 -8.259 -8.581	0.000 0.000 0.000 0.000 0.000 0.000	9.356 9.356 9.356 9.356 9.356 9.358 9.359	0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000	0.004 0.004 0.004 0.004 -0.008 -0.007 -0.006	0.000 0.000 0.000 0.000 0.000 0.000
OF OF OF OF	615.000 626.000 627.000 638.000 639.000	-8.587 -8.568 -8.564 -8.528 -8.524	0.000 0.000 0.000 0.000 0.000	9.359 9.359 9.359 9.359 9.359	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.001 0.002 0.003 0.003 0.002	0.000 0.000 0.000 0.000 0.000
OF OF OF	651.000 652.000 663.000 664.000	-8.502 -8.500 -8.484 -8.483	0.000 0.000 0.000 0.000	9.359 9.359 9.359 9.359	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.002 0.001 0.002 0.002	0.000 0.000 0.000 0.000
OF OF OF OF	675.000 676.000 687.000 688.000 699.000	-8.467 -8.465 -8.449 -8.448 -8.432	0.000 0.000 0.000 0.000 0.000	9.360 9.360 9.360 9.360 9.360	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.001 0.002 0.002 0.001 0.002	0.000 0.000 0.000 0.000 0.000
OF OF OF	700.000 711.000 712.000 723.000	-8.430 -8.414 -8.413 -8.397	0.000 0.000 0.000 0.000	9.360 9.360 9.360 9.360	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.002 0.001 0.002 0.002	0.000 0.000 0.000 0.000
OF OF OF OF	724.000 735.000 736.000 747.000 748.000	-8.395 -8.379 -8.378 -8.362 -8.360	0.000 0.000 0.000 0.000 0.000	9.360 9.361 9.361 9.361 9.361	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.001 0.002 0.002 0.002 0.002	0.000 0.000 0.000 0.000 0.000
OF OF OF	759.000 760.000 772.000 778.000	-8.344 -8.343 -8.325 -8.317	0.000 0.000 0.000 0.000	9.361 9.361 9.361 9.361	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.001 0.002 0.002 0.002	0.000 0.000 0.000 0.000
OF OF OF OF	781.000 792.000 793.000 804.000 805.000	-8.312 -8.269 -8.263 -8.190 -8.183	0.000 0.000 0.000 0.000 0.000	9.361 9.361 9.361 9.362 9.362	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.003 0.004 0.007 0.007 0.007	0.000 0.000 0.000 0.000 0.000
OF OF OF OF	816.000 817.000 828.000 829.000 840.000	-8.110 -8.103 -8.030 -8.024 -7.950	0.000 0.000 0.000 0.000	9.362 9.362 9.362 9.362	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.007 0.007 0.007 0.007 0.007	0.000 0.000 0.000 0.000 0.000
OF OF OF OF	841.000 852.000 853.000 864.000	-7.944 -7.871 -7.864 -7.791	0.000 0.000 0.000 0.000 0.000	9.362 9.362 9.362 9.362 9.362	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.007 0.007 0.007 0.007	0.000 0.000 0.000 0.000
OF OF OF OF	865.000 876.000 877.000 888.000 889.000	-7.784 -7.711 -7.705 -7.631 -7.625	0.000 0.000 0.000 0.000 0.000	9.362 9.362 9.362 9.362 9.362	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.007 0.007 0.007 0.007 0.009	0.000 0.000 0.000 0.000 0.000
OF OF OF	900.000 901.000 912.000 913.000	-7.528 -7.517 -7.398 -7.387	0.000 0.000 0.000 0.000	9.363 9.363 9.363 9.363	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.009 0.011 0.011 0.011	0.000 0.000 0.000 0.000 0.000
OF OF OF OF	924.000 925.000 936.000 937.000 948.000	-7.268 -7.258 -7.148 -7.141 -7.065	0.000 0.000 0.000 0.000 0.000	9.363 9.363 9.363 9.363 9.363	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.011 0.010 0.010 0.007 0.007	0.000 0.000 0.000 0.000
OF OF OF OF	949.000 960.000 961.000 972.000 973.000	-7.058 -6.982 -6.975 -6.898 -6.888	0.000 0.000 0.000 0.000 0.000	9.363 9.363 9.363 9.363 9.363	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.007 0.007 0.007 0.007 0.009	0.000 0.000 0.000 0.000 0.000
OF OF OF OF	984.000 985.000 996.000 997.000 1008.000	-6.786 -6.777 -6.675 -6.666 -6.563	0.000 0.000 0.000 0.000	9.364 9.364 9.364 9.364 9.364	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.009 0.009 0.009 0.009 0.009	0.000 0.000 0.000 0.000 0.000
OF OF OF	1009.000 1020.000 1021.000 1032.000	-6.554 -6.452 -6.443 -6.341	0.000 0.000 0.000 0.000	9.364 9.364 9.364 9.364	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.009 0.009 0.009 0.009	0.000 0.000 0.000 0.000
OF OF OF OF	1033.000 1044.000 1045.000 1056.000 1057.000	-6.332 -6.229 -6.220 -6.118 -6.109	0.000 0.000 0.000 0.000 0.000	9.364 9.364 9.364 9.365 9.365	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.009 0.009 0.009 0.009 0.007	0.000 0.000 0.000 0.000 0.000
OF OF OF OF	1072.000 1073.000 1084.000 1085.000 1096.000	-6.002 -5.998 -5.960 -5.956 -5.918	0.000 0.000 0.000 0.000 0.000	9.365 9.365 9.365 9.366 9.366	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.007 0.004 0.004 0.004 0.004	0.000 0.000 0.000 0.000 0.000
OF OF OF OF	1097.000 1108.000 1109.000 1120.000 1121.000	-5.915 -5.876 -5.873 -5.834 -5.831	0.000 0.000 0.000 0.000 0.000	9.366 9.366 9.366 9.367 9.367	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.004 0.004 0.004 0.004 0.004	0.000 0.000 0.000 0.000 0.000
OF OF OF OF	1132.000 1133.000 1144.000 1145.000	-5.793 -5.789 -5.751 -5.747 -5.709	0.000 0.000 0.000 0.000	9.367 9.367 9.368 9.368 9.368	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.004 0.004 0.004 0.004 0.004	0.000 0.000 0.000 0.000 0.000
OF OF OF OF	1157.000 1168.000 1169.000 1181.000 1195.000	-5.705 -5.656 -5.650 -5.589 -5.577	0.000 0.000 0.000 0.000 0.000	9.368 9.369 9.369 9.369 9.369	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.004 0.004 0.005 0.005 0.003 0.001	0.000 0.000 0.000 0.000 0.000
OF	1196.000	-5.575	0.000	9.369	0.000	0.000	0.000	0.000	0.001	0.000

OFFORE OF	1207.000 1208.000 1219.000 1219.000 1220.000 1232.000 1243.000 1244.000 1276.000 1277.000 1377.900 1381.200 1397.600 1400.900 1401.800 1417.300 1417.300 1417.300 1417.300 1417.300 1418.000 1417.300 1418.000 1417.300 1418.000 1417.300 1418.000 1417.300 1418.000 1417.300 1418.000 1417.300 1418.000 1417.300 1418.000 1417.300 1418.000 1417.300 1418.000 1417.300 1418.000 1417.300 1418.000 1505.000 1505.500 1505.500 1905.500 1905.500 1905.500 1905.500 1905.500 1905.500	-5.551 -5.549 -5.526 -5.523 -5.498 -5.474 -5.473 -5.473 -5.100 -5.054 -1.285 -0.975 -0.460 1.534 1.761 1.990 2.245 2.499 2.754 3.563 3.990 4.588 4.871 9.072 5.164 5.855 6.107 6.257 6.340 6.257 6.340 7.124 7.162 7.199 6.257 6.340 7.287 7.162 7.199 7.266 7.197 7.266 7.197 7.266 7.199 7.266 7.197 7.266 7.197 7.266 7.199 7.266 7.197 7.266 7.199 7.266 7.199 7.266 7.197 7.266	0.000 0.000	9.369 9.369 9.369 9.369 9.369 9.369 9.369 9.368 9.363 9.363 9.366 9.379 9.386 9.379 9.386 9.379 9.386 9.379 9.407 9.417 9.458 9.572 9.572 9.572 9.572 9.572 9.572 9.789 9.775 9.789 9.789 9.789 9.883 9.883 9.883 9.885 9.875 9.875 9.875 9.875 9.875 9.875 9.910 9.911 9.910 9.911 9.910 9.911 9.910 9.911 9.910 9.911 9.910 9.972 9.604 9.605 9.604 9.605	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000	0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.012 0.025 0.039 0.040 0.127 0.113 0.069 0.073 0.077 0.078 0.097 0.091 0.087 0.059 0.030 0.028 0.061 0.091 0.059 0.030 0.028 0.061 0.097 0.015 0.001	0.000 0.000
IF AS IF AS IF IF IF IF	1681.600 1685.500 1692.200 1705.600 1710.000 1712.300 1816.100 1824.000 1853.500 1885.000 1899.500 1905.500	9.521 9.604 9.501 9.501 9.579 8.340 8.747 9.042 9.108 8.517	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	9.604 9.604 9.604 9.604 9.604 9.579 9.579 9.579 9.579 9.579 9.579	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	-0.021 0.000 0.012 -0.023 0.000 0.045 -0.157 -0.022 0.012 0.008 -0.026 -0.050	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

HERE SEED SEED SEED SEED SEED SEED SEED S	2349.000 2356.500 2364.500 2374.500 2383.000 2388.500 2395.000 2403.500 2403.500 2437.000 2447.500 2454.000 2465.000 2477.000 2489.500 2519.000 2519.000 2511.500 2541.500 2561.000 2541.500 2664.500 2612.500 2664.500 2708.000 2670.500 2684.500 2670.500 2684.500 2720.500 2729.000 2738.000 2738.000 2746.000 2754.000 2754.000 2785.500 2792.000 2785.500 2792.000 2785.500 2792.000 2785.500 2792.000 2816.000 2754.000 2754.000 2754.000 2754.000 2754.000 2754.000 2754.000 2759.000 2792.000 2792.000 2792.000 2792.000 2794.000 2794.000 2795.500 2802.000 2816.500 2910.500 2921.500 2932.000 2947.500 2959.500 2977.500 3301.500 3321.000 3321.500	7.069 6.043 5.9792 6.043 5.9792 5.551 4.865 4.3714 3.812 4.0090 4.075 6.043 3.714 3.812 4.0090 4.075 3.780 3.780 3.780 3.780 3.780 3.780 3.878 3.4515 3.681 4.3053 2.959 4.140 4.230 4.075 4.4669 4.432 4.6662 4.140 4.230 4.301 3.944 4.367 3.944 4.367 3.944 4.367 3.944 4.367 3.946 4.137 3.946 4.137 3.947 4.3908 3.876 3.970 3.986 4.137 3.970 3.9876 3.986 4.137 3.970 3.9876 4.137 3.970 3.986 4.137 3.970 3.9876 4.137 3.970 3.986 4.137 3.970 3.9876 4.333 3.7716 3.9982 4.137 3.970 3.973 3.7746 3.9982 4.137 3.5770 4.0068 3.973 3.7746	0.000 0.000	9.579 9.579 9.579 9.579 9.579 9.580 9.590	0.000 0.000	0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000	0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000	0.000 0.000	-0.044 -0.066 -0.066 -0.066 -0.066 -0.051 -0.031 -0.019 -0.028 -0.009 -0.023 -0.050 -0.033 0.017 -0.001 0.003 0.010 -0.015 -0.009 -0.009 -0.009 -0.009 -0.009 -0.009 -0.001 -0.015 -0.033 -0.015 -0.003 -0.010 -0.015 -0.003 -0.021 -0.002 -0.022 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.003 -0.015 -0.003 -0.015 -0.007 -0.009 -0.0000 -0.0015 -0.007 -0.004 -0.005 -0.007 -0.004 -0.005 -0.007 -0.009 -0.0020 -0.0015 -0.007 -0.004 -0.005 -0.005 -0.007 -0.004 -0.005 -0.005 -0.007 -0.009 -0.008 -0.009 -0.0015 -0.007 -0.009 -0.0015 -0.007 -0.009 -0.0015 -0.007 -0.009 -0.0015 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001	0.000 0.000
IF IF IF IF IF IF IF IF	3186.500 3201.500 3210.500 3230.000 3236.500 3247.500 3270.500 3277.500 3301.500 3307.500 3301.500	4.137 3.579 4.170 4.006 3.908 3.940 3.973 3.678 3.711 3.645	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	9.593 9.593 9.594 9.594 9.594 9.594 9.594 9.594 9.594 9.594 9.594	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	-0.020 0.001 0.0015 -0.010 -0.004 0.003 -0.011 -0.015 -0.001 0.001 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

	IF IF IF IF IF IF IF IF IF IF IF IF IF I	3526.000 3534.500 3534.500 3534.500 3545.000 3545.000 3569.000 3569.000 3603.500 3612.500 3612.500 3612.500 3625.000 3625.000 3638.500 3639.000 3649.500 3663.000 3673.000 3673.000 3746.000 3774.000	4.728 5.548 4.990 4.892 4.728 4.793 4.596 5.351 5.220 5.253 5.417 4.695 5.843 5.876 6.220 5.515 5.417 5.548 5.515 5.614 5.548 5.515 5.416 5.883 6.665 6.516 7.005 6.516 6.516 6.516 6.516 7.005 6.518 6.516 7.005 6.518 6.516 7.005 6.518 6.516 7.005 6.518 6.516 7.005 6.518 6.516 7.005 6.518 6.516 7.005 6.518 6.516 7.005 6.516 6.516 7.005 6.516 7.005 6.516 6.516 7.005 6.516 7.005 6.516 6.516 7.005 6.516 6.516 7.005 6.516 6.516 7.005 6.516 6.516 7.005 6.516 6.516 7.005 6.516	0.000 0.000	99.55955555555555555555555555555555555	0.000 0.000	0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000	0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000	0.035 0.014 -0.034 -0.015 -0.007 -0.007 -0.0020 0.037 -0.009 -0.013 -0.012 -0.026 0.014 0.012 -0.026 0.014 0.015 0.012 -0.026 0.011 -0.015 0.012 -0.005 -0.032 0.004 0.028 -0.009 -0.015 0.011 -0.011 -0.011 0.051 0.034 -0.031 0.034 -0.031 0.034 -0.031 0.034 -0.010 -0.015 0.011 -0.011 0.034 -0.031 0.034 -0.031 0.034 -0.011 -0.011 -0.011 -0.011 -0.011 -0.011 -0.011 -0.011 -0.011 -0.011 -0.011 -0.011 -0.011 -0.011 -0.011 -0.011 -0.011 -0.020 -0.034 -0.034 -0.042 -0.010 -0.037 -0.077 -0.004 -0.006 -0.014 -0.006 0.014 -0.043 -0.010 -0.007 -0.004 -0.006 -0.014 -0.006 -0.015 -0.010 -0.007 -0.004 -0.006 -0.010 -0.007 -0.004 -0.006 -0.010 -0.007 -0.004 -0.006 -0.015 -0.015 -0.022 -0.021 -0.022 -0.021 -0.022 -0.022 -0.022 -0.022 -0.022 -0.013 -0.022 -0.013 -0.022 -0.013 -0.022 -0.013 -0.022 -0.011 -0.022 -0.013 -0.022 -0.011 -0.022 -0.011 -0.022 -0.011	0.000 0.000
1 IE	END STATION 0.000	END ELEVATION -13.335	FETCH LENGTH 1.000	SURGE ELEV 10-YEAR 1.000	SURGE ELEV	INITIAL WAVE HEIGHT 9.182	INITIAL W. PERIOD 13.209	56.140	BOTTOM SLOPE 0.007	AVERAGE A-ZONES 0.000	
OF	END STATION 3.000	-13.315	NEW SURGE 10-YEAR 0.000	NEW SURGE 100-YEAR 9.360	0.000	0.000	0.000	0.000	BOTTOM SLOPE 0.007	AVERAGE A-ZONES 0.000	
OF	END STATION 4.000	-13.309	NEW SURGE 10-YEAR 0.000	NEW SURGE 100-YEAR 9.360	0.000	0.000	0.000	0.000	BOTTOM SLOPE 0.007	AVERAGE A-ZONES 0.000	
OF	END STATION 9.000	-13.276	NEW SURGE 10-YEAR 0.000	NEW SURGE 100-YEAR 9.360	0.000	0.000	0.000	0.000	BOTTOM SLOPE 0.007	AVERAGE A-ZONES 0.000	
OF	END STATION 10.000	END ELEVATION -13.270	NEW SURGE 10-YEAR 0.000	NEW SURGE 100-YEAR 9.360	0.000	0.000	0.000	0.000	BOTTOM SLOPE 0.007	AVERAGE A-ZONES 0.000	
OF	END STATION 15.000 END	END	NEW SURGE 10-YEAR 0.000 NEW SURGE	NEW SURGE 100-YEAR 9.360 NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM SLOPE 0.007 BOTTOM	AVERAGE A-ZONES 0.000 AVERAGE	
OF	STATION 16.000		10-YEAR 0.000	100-YEAR 9.360	0.000	0.000	0.000	0.000	SLOPE 0.007	A-ZONES 0.000	

1

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	21.000	-13.198	0.000	9.360	0.000	0.000	0.000	0.000	0.007	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 22.000	ELEVATION -13.192	10-YEAR 0.000	100-YEAR 9.360	0.000	0.000	0.000	0.000	SLOPE 0.006	A-ZONES 0.000
Or	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000		0.000		SLOPE	A-ZONES
OF	27.000 END	-13.160 END	0.000 NEW SURGE	9.360 NEW SURGE	0.000	0.000	0.000	0.000	0.007 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	28.000	-13.153	0.000	9.360	0.000	0.000	0.000	0.000	0.007	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	33.000	-13.121	0.000	9.360	0.000	0.000	0.000	0.000	0.007	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 34.000	ELEVATION -13.114	10-YEAR 0.000	100-YEAR 9.360	0.000	0.000	0.000	0.000	SLOPE 0.007	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 39.000	ELEVATION	10-YEAR 0.000	100-YEAR 9.360	0.000	0.000	0.000	0.000	SLOPE 0.007	A-ZONES 0.000
OF	39.000 END	-13.082 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	40.000 END	-13.075 END	0.000 NEW SURGE	9.360 NEW SURGE	0.000	0.000	0.000	0.000	0.007 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	45.000	-13.043	0.000	9.360	0.000	0.000	0.000	0.000	0.007	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	46.000	-13.036	0.000	9.360	0.000	0.000	0.000	0.000	0.007	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 51.000	ELEVATION -13.004	10-YEAR 0.000	100-YEAR 9.360	0.000	0.000	0.000	0.000	SLOPE 0.007	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
0.11	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	52.000 END	-12.997 END	0.000 NEW SURGE	9.360 NEW SURGE	0.000	0.000	0.000	0.000	0.009 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	57.000 END	-12.951 END	0.000 NEW SURGE	9.360	0.000	0.000	0.000	0.000	0.010	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	A-ZONES
OF	58.000	-12.937	0.000	9.361	0.000	0.000	0.000	0.000	0.014	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	63.000	-12.865	0.000	9.361	0.000	0.000	0.000	0.000	0.014	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 64.000	ELEVATION -12.851	10-YEAR 0.000	100-YEAR 9.361	0.000	0.000	0.000	0.000	SLOPE 0.014	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	69.000 END	-12.780 END	0.000 NEW SURGE	9.361 NEW SURGE	0.000	0.000	0.000	0.000	0.014 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	70.000	-12.766	0.000	9.361	0.000	0.000	0.000	0.000	0.011	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	76.000	-12.701	0.000	9.361	0.000	0.000	0.000	0.000	0.011	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	79.000	-12.670	0.000	9.361	0.000	0.000	0.000	0.000	0.010	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 84.000	ELEVATION -12.617	10-YEAR 0.000	100-YEAR 9.360	0.000	0.000	0.000	0.000	SLOPE 0.013	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
		ELEVATION	10-YEAR	100-YEAR	0.000		0.000		SLOPE	A-ZONES
OF	85.000 END	-12.590 END	0.000 NEW SURGE	9.360 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	90.000 END	-12.452	0.000 NEW SURGE	9.360 NEW SURGE	0.000	0.000	0.000	0.000	0.028	0.000 AVERAGE
	STATION	END ELEVATION	10-YEAR	100-YEAR					BOTTOM SLOPE	A-ZONES
OF	91.000	-12.424	0.000	9.360	0.000	0.000	0.000	0.000	0.028	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	96.000	-12.286	0.000	9.360	0.000	0.000	0.000	0.000	0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 97.000	ELEVATION -12.259	10-YEAR 0.000	100-YEAR 9.360	0.000	0.000	0.000	0.000	SLOPE 0.027	A-ZONES 0.000
Or	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
0.11		ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	102.000 END	-12.121 END	0.000 NEW SURGE	9.360 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	103.000 END	-12.094 END	0.000 NEW SURGE	9.360 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
		ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	108.000	-11.956	0.000	9.360	0.000	0.000	0.000	0.000	0.028	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	109.000	-11.928	0.000	9.360	0.000	0.000	0.000	0.000	0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 114.000	ELEVATION -11.791	10-YEAR 0.000	100-YEAR 9.360	0.000	0.000	0.000	0.000	SLOPE 0.027	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	3.000	0.000	0.000	0.000	BOTTOM	AVERAGE
O.E.		ELEVATION	10-YEAR	100-YEAR	0.000	0 000	0 000	0 000	SLOPE	A-ZONES
OF	115.000 END	-11.763 END	0.000 NEW SURGE	9.360 NEW SURGE	0.000	0.000	0.000	0.000	0.028 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	120.000 END	-11.625 END	0.000 NEW SURGE	9.360 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	121.000	-11.598	0.000	9.360	0.000	0.000	0.000	0.000	0.027	0.000

	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	126.000	-11.460	0.000	9.359	0.000	0.000	0.000	0.000	0.028	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	127.000	-11.432	0.000	9.359	0.000	0.000	0.000	0.000	0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 132.000	ELEVATION -11.295	10-YEAR 0.000	100-YEAR 9.359	0.000	0.000	0.000	0.000	SLOPE 0.027	A-ZONES 0.000
O1	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
OF	STATION 133.000	ELEVATION -11.267	10-YEAR 0.000	100-YEAR 9.359	0.000	0.000	0.000	0.000	SLOPE 0.028	A-ZONES 0.000
OF	END	-11.267 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	139.000 END	-11.102 END	0.000 NEW SURGE	9.359 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	144.000	-10.964	0.000	9.359	0.000	0.000	0.000	0.000	0.028	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	145.000	-10.936	0.000	9.359	0.000	0.000	0.000	0.000	0.028	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	156.000	-10.633	0.000	9.359	0.000	0.000	0.000	0.000	0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 157.000	ELEVATION -10.606	10-YEAR 0.000	100-YEAR 9.359	0.000	0.000	0.000	0.000	SLOPE 0.027	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 168.000	ELEVATION -10.303	10-YEAR 0.000	100-YEAR 9.359	0.000	0.000	0.000	0.000	SLOPE 0.028	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
0.11	STATION 169.000	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	169.000 END	-10.275 END	0.000 NEW SURGE	9.359 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	180.000 END	-9.973 END	0.000 NEW SURGE	9.358 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	181.000	-9.945	0.000	9.358	0.000	0.000	0.000	0.000	0.027	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	192.000	-9.642	0.000	9.358	0.000	0.000	0.000	0.000	0.028	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	193.000	-9.615	0.000	9.358	0.000	0.000	0.000	0.000	0.028	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 204.000	ELEVATION -9.311	10-YEAR 0.000	100-YEAR 9.358	0.000	0.000	0.000	0.000	SLOPE 0.027	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 205.000	ELEVATION -9.284	10-YEAR 0.000	100-YEAR 9.358	0.000	0.000	0.000	0.000	SLOPE 0.027	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR 0.000	100-YEAR	0.000	0.000	0.000	0 000	SLOPE	A-ZONES
OF	216.000 END	-8.981 END	NEW SURGE	9.358 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	217.000 END	-8.953 END	0.000 NEW SURGE	9.358 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	228.000 END	-8.650 END	0.000 NEW SURGE	9.358 NEW SURGE	0.000	0.000	0.000	0.000	0.028 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	229.000	-8.623	0.000	9.358	0.000	0.000	0.000	0.000	0.028	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	240.000	-8.320	0.000	9.357	0.000	0.000	0.000	0.000	0.028	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	241.000	-8.292	0.000	9.357	0.000	0.000	0.000	0.000	0.028	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	250.000	-8.044	0.000	9.357	0.000	0.000	0.000	0.000	0.026	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 251.000	ELEVATION -8.031	10-YEAR 0.000	100-YEAR 9.357	0.000	0.000	0.000	0.000	SLOPE 0.005	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 262.000	ELEVATION -7.988	10-YEAR 0.000	100-YEAR 9.357	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
OF	STATION 263.000	ELEVATION -7.985	10-YEAR 0.000	100-YEAR 9.357	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES 0.000
OF	END	=7.983 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
0.11	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	274.000 END	-7.942 END	0.000 NEW SURGE	9.357 NEW SURGE	0.000	0.000	0.000	0.000	0.004 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	275.000 END	-7.939 END	0.000 NEW SURGE	9.357 NEW SURGE	0.000	0.000	0.000	0.000	0.004 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	286.000 END	-7.896 END	0.000 NEW SURGE	9.357 NEW SURGE	0.000	0.000	0.000	0.000	0.004 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	287.000	-7.893	0.000	9.357	0.000	0.000	0.000	0.000	0.004	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	298.000	-7.851	0.000	9.356	0.000	0.000	0.000	0.000	0.004	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	299.000	-7.847	0.000	9.356	0.000	0.000	0.000	0.000	0.004	0.000
	END	END	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM	AVERAGE
OF	STATION 310.000	ELEVATION -7.805	0.000	9.356	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES 0.000
		-	-			-	-		-	

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	311.000	-7.801	0.000	9.356	0.000	0.000	0.000	0.000	0.004	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 322.000	ELEVATION -7.759	10-YEAR 0.000	100-YEAR 9.356	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
OF	STATION 323.000	ELEVATION -7.755	10-YEAR 0.000	100-YEAR 9.356	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES 0.000
OF	523.000 END	-7.755 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	334.000 END	-7.713 END	0.000 NEW SURGE	9.356 NEW SURGE	0.000	0.000	0.000	0.000	0.004 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	335.000 END	-7.709 END	0.000	9.356	0.000	0.000	0.000	0.000	0.004 BOTTOM	0.000
	STATION	ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					SLOPE	AVERAGE A-ZONES
OF	346.000	-7.667	0.000	9.356	0.000	0.000	0.000	0.000	0.004	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	347.000	-7.663	0.000	9.356	0.000	0.000	0.000	0.000	0.004	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 358.000	ELEVATION -7.621	10-YEAR 0.000	100-YEAR 9.356	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 359.000	ELEVATION -7.617	10-YEAR 0.000	100-YEAR 9.356	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000				SLOPE	A-ZONES
OF	370.000 END	-7.575 END	0.000 NEW SURGE	9.356 NEW SURGE	0.000	0.000	0.000	0.000	0.004 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	371.000 END	-7.571 END	0.000 NEW SURGE	9.356 NEW SURGE	0.000	0.000	0.000	0.000	0.004 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	382.000	-7.529	0.000	9.356	0.000	0.000	0.000	0.000	0.004	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	383.000	-7.525	0.000	9.356	0.000	0.000	0.000	0.000	0.004	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	394.000	-7.483	0.000	9.356	0.000	0.000	0.000	0.000	0.004	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 395.000	ELEVATION -7.479	10-YEAR 0.000	100-YEAR 9.356	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
OF	STATION 406.000	ELEVATION -7.438	10-YEAR 0.000	100-YEAR 9.356	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES 0.000
OF	END	-7.436 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	407.000 END	-7.434 END	0.000 NEW SURGE	9.356 NEW SURGE	0.000	0.000	0.000	0.000	0.004 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	418.000 END	-7.393 END	0.000 NEW SURGE	9.356	0.000	0.000	0.000	0.000	0.004	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	A-ZONES
OF	419.000	-7.389	0.000	9.356	0.000	0.000	0.000	0.000	0.004	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	430.000	-7.348	0.000	9.356	0.000	0.000	0.000	0.000	0.004	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	431.000	-7.344	0.000	9.356	0.000	0.000	0.000	0.000	0.004	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 442.000	ELEVATION -7.302	10-YEAR 0.000	100-YEAR 9.356	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 443.000	ELEVATION -7.299	10-YEAR 0.000	100-YEAR 9.356	0.000	0.000	0.000	0.000	SLOPE -0.008	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
0.0	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	562.000 END	-8.259 END	0.000 NEW SURGE	9.358 NEW SURGE	0.000	0.000	0.000	0.000	-0.007 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000		SLOPE	A-ZONES
OF	614.000 END	-8.581 END	0.000 NEW SURGE	9.359 NEW SURGE	0.000	0.000	0.000	0.000	-0.006 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	615.000 END	-8.587 END	0.000 NEW SURGE	9.359 NEW SURGE	0.000	0.000	0.000	0.000	0.001 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	626.000	-8.568	0.000	9.359	0.000	0.000	0.000	0.000	0.002	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	627.000	-8.564	0.000	9.359	0.000	0.000	0.000	0.000	0.003	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	638.000	-8.528	0.000	9.359	0.000	0.000	0.000	0.000	0.003	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 639.000	ELEVATION -8.524	10-YEAR 0.000	100-YEAR 9.359	0.000	0.000	0.000	0.000	SLOPE 0.002	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 651.000	ELEVATION -8.502	10-YEAR 0.000	100-YEAR 9.359	0.000	0.000	0.000	0.000	SLOPE 0.002	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
O.E.	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0 000	0.000	0 000	SLOPE	A-ZONES
OF	652.000 END	-8.500 END	0.000 NEW SURGE	9.359 NEW SURGE	0.000	0.000	0.000	0.000	0.001 BOTTOM	0.000 AVERAGE
0=	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	663.000 END	-8.484 END	0.000 NEW SURGE	9.359 NEW SURGE	0.000	0.000	0.000	0.000	0.002 BOTTOM	0.000 AVERAGE
_	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	664.000	-8.483	0.000	9.359	0.000	0.000	0.000	0.000	0.002	0.000

	EMD	EMD	NEW GUDGE	NEW CHOCE					рошшом	ALTED A CE
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	675.000	-8.467	0.000	9.360	0.000	0.000	0.000	0.000	0.001	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	676.000	-8.465	0.000	9.360	0.000	0.000	0.000	0.000	0.002	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 687.000	ELEVATION -8.449	10-YEAR 0.000	100-YEAR 9.360	0.000	0.000	0.000	0.000	SLOPE 0.002	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
0.17	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	688.000 END	-8.448 END	0.000 NEW SURGE	9.360 NEW SURGE	0.000	0.000	0.000	0.000	0.001 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	699.000 END	-8.432 END	0.000 NEW SURGE	9.360 NEW SURGE	0.000	0.000	0.000	0.000	0.002 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	700.000	-8.430	0.000	9.360	0.000	0.000	0.000	0.000	0.002	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	711.000	-8.414	0.000	9.360	0.000	0.000	0.000	0.000	0.001	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM SLOPE	AVERAGE A-ZONES
OF	STATION 712.000	ELEVATION -8.413	10-YEAR 0.000	100-YEAR 9.360	0.000	0.000	0.000	0.000	0.002	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 723.000	ELEVATION -8.397	10-YEAR 0.000	100-YEAR 9.360	0.000	0.000	0.000	0.000	SLOPE 0.002	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	724.000 END	-8.395 END	0.000 NEW SURGE	9.360 NEW SURGE	0.000	0.000	0.000	0.000	0.001 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	735.000 END	-8.379 END	0.000 NEW SURGE	9.361 NEW SURGE	0.000	0.000	0.000	0.000	0.002 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	736.000	-8.378	0.000	9.361	0.000	0.000	0.000	0.000	0.002	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	747.000	-8.362	0.000	9.361	0.000	0.000	0.000	0.000	0.002	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	748.000	-8.360	0.000	9.361	0.000	0.000	0.000	0.000	0.002	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 759.000	ELEVATION -8.344	10-YEAR 0.000	100-YEAR 9.361	0.000	0.000	0.000	0.000	SLOPE 0.001	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
OF	STATION 760.000	ELEVATION -8.343	10-YEAR 0.000	100-YEAR 9.361	0.000	0.000	0.000	0.000	SLOPE 0.002	A-ZONES 0.000
OF	END	-0.343 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	772.000 END	-8.325 END	0.000 NEW SURGE	9.361 NEW SURGE	0.000	0.000	0.000	0.000	0.002 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	778.000 END	-8.317 END	0.000 NEW SURGE	9.361 NEW SURGE	0.000	0.000	0.000	0.000	0.002 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	781.000	-8.312	0.000	9.361	0.000	0.000	0.000	0.000	0.003	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	792.000	-8.269	0.000	9.361	0.000	0.000	0.000	0.000	0.004	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	793.000	-8.263	0.000	9.361	0.000	0.000	0.000	0.000	0.007	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 804.000	ELEVATION -8.190	10-YEAR 0.000	100-YEAR 9.362	0.000	0.000	0.000	0.000	SLOPE 0.007	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 805.000	ELEVATION -8.183	10-YEAR 0.000	100-YEAR 9.362	0.000	0.000	0.000	0.000	SLOPE 0.007	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
OF	STATION 816.000	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	816.000 END	-8.110 END	0.000 NEW SURGE	9.362 NEW SURGE	0.000	0.000	0.000	0.000	0.007 BOTTOM	0.000 AVERAGE
0.7	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0 000	0.000	0 000	SLOPE	A-ZONES
OF	817.000 END	-8.103 END	0.000 NEW SURGE	9.362 NEW SURGE	0.000	0.000	0.000	0.000	0.007 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	828.000 END	-8.030 END	0.000 NEW SURGE	9.362 NEW SURGE	0.000	0.000	0.000	0.000	0.007 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	829.000	-8.024	0.000	9.362	0.000	0.000	0.000	0.000	0.007	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	840.000	-7.950	0.000	9.362	0.000	0.000	0.000	0.000	0.007	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	841.000	-7.944	0.000	9.362	0.000	0.000	0.000	0.000	0.007	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 852.000	ELEVATION -7.871	10-YEAR 0.000	100-YEAR 9.362	0.000	0.000	0.000	0.000	SLOPE 0.007	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	2.000		2.300		BOTTOM	AVERAGE
OF	STATION 853.000	ELEVATION -7.864	10-YEAR 0.000	100-YEAR 9.362	0.000	0.000	0.000	0.000	SLOPE 0.007	A-ZONES 0.000
OI.	END	END	NEW SURGE	NEW SURGE	3.000	0.000	5.000	0.000	BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR	0 000	0 000	0.000	0 000	SLOPE	A-ZONES
OF	864.000 END	-7.791 END	0.000 NEW SURGE	9.362 NEW SURGE	0.000	0.000	0.000	0.000	0.007 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR		0.00-	0.00-	0.00	SLOPE	A-ZONES
OF	865.000 END	-7.784 END	0.000 NEW SURGE	9.362 NEW SURGE	0.000	0.000	0.000	0.000	0.007 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	876.000	-7.711	0.000	9.362	0.000	0.000	0.000	0.000	0.007	0.000

	EMD	END	NEW CUDCE	NEW CUDGE					DOTTOM	ALTEDACE
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	877.000	-7.705	0.000	9.362	0.000	0.000	0.000	0.000	0.007	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	888.000	-7.631	0.000	9.362	0.000	0.000	0.000	0.000	0.007	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	889.000	-7.625	0.000	9.362	0.000	0.000	0.000	0.000	0.009	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	900.000	-7.528	0.000	9.363	0.000	0.000	0.000	0.000	0.009	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 901.000	ELEVATION -7.517	10-YEAR 0.000	100-YEAR 9.363	0.000	0.000	0.000	0.000	SLOPE 0.011	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 912.000	ELEVATION -7.398	10-YEAR 0.000	100-YEAR 9.363	0.000	0.000	0.000	0.000	SLOPE 0.011	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
OF	STATION 913.000	ELEVATION -7.387	10-YEAR 0.000	100-YEAR 9.363	0.000	0.000	0.000	0.000	SLOPE 0.011	A-ZONES 0.000
OF	END	-7.367 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR 0.000	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	924.000 END	-7.268 END	NEW SURGE	9.363 NEW SURGE	0.000	0.000	0.000	0.000	0.011 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000				SLOPE	A-ZONES
OF	925.000 END	-7.258 END	0.000 NEW SURGE	9.363 NEW SURGE	0.000	0.000	0.000	0.000	0.010 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	936.000 END	-7.148 END	0.000 NEW SURGE	9.363 NEW SURGE	0.000	0.000	0.000	0.000	0.010 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	937.000 END	-7.141 END	0.000 NEW SURGE	9.363 NEW SURGE	0.000	0.000	0.000	0.000	0.007 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	948.000 END	-7.065 END	0.000 NEW SURGE	9.363 NEW SURGE	0.000	0.000	0.000	0.000	0.007 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	949.000	-7.058	0.000	9.363	0.000	0.000	0.000	0.000	0.007	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	960.000	-6.982	0.000	9.363	0.000	0.000	0.000	0.000	0.007	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	961.000	-6.975	0.000	9.363	0.000	0.000	0.000	0.000	0.007	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	972.000	-6.898	0.000	9.363	0.000	0.000	0.000	0.000	0.007	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	973.000	-6.888	0.000	9.363	0.000	0.000	0.000	0.000	0.009	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 984.000	ELEVATION -6.786	10-YEAR 0.000	100-YEAR 9.364	0.000	0.000	0.000	0.000	SLOPE 0.009	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 985.000	ELEVATION -6.777	10-YEAR 0.000	100-YEAR 9.364	0.000	0.000	0.000	0.000	SLOPE 0.009	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 996.000	ELEVATION -6.675	10-YEAR 0.000	100-YEAR 9.364	0.000	0.000	0.000	0.000	SLOPE 0.009	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 997.000	ELEVATION -6.666	10-YEAR 0.000	100-YEAR 9.364	0.000	0.000	0.000	0.000	SLOPE 0.009	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
OF	STATION 1008.000	ELEVATION -6.563	10-YEAR 0.000	100-YEAR 9.364	0.000	0.000	0.000	0.000	SLOPE 0.009	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
OF	STATION 1009.000	ELEVATION -6.554	10-YEAR 0.000	100-YEAR 9.364	0.000	0.000	0.000	0.000	SLOPE 0.009	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR 0.000	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES 0.000
OF	1020.000 END	-6.452 END	NEW SURGE	9.364 NEW SURGE	0.000	0.000	0.000	0.000	0.009 BOTTOM	AVERAGE
0.77	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	1021.000 END	-6.443 END	0.000 NEW SURGE	9.364 NEW SURGE	0.000	0.000	0.000	0.000	0.009 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1032.000 END	-6.341 END	0.000 NEW SURGE	9.364 NEW SURGE	0.000	0.000	0.000	0.000	0.009 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1033.000 END	-6.332 END	0.000 NEW SURGE	9.364 NEW SURGE	0.000	0.000	0.000	0.000	0.009 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1044.000 END	-6.229 END	0.000 NEW SURGE	9.364 NEW SURGE	0.000	0.000	0.000	0.000	0.009 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1045.000	-6.220	0.000	9.364	0.000	0.000	0.000	0.000	0.009	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	1056.000	-6.118	0.000	9.365	0.000	0.000	0.000	0.000	0.009	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	1057.000	-6.109	0.000	9.365	0.000	0.000	0.000	0.000	0.007	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	1072.000	-6.002	0.000	9.365	0.000	0.000	0.000	0.000	0.007	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	1073.000	-5.998	0.000	9.365	0.000	0.000	0.000	0.000	0.004	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	1084.000	-5.960	0.000	9.365	0.000	0.000	0.000	0.000	0.004	0.000

	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1085.000	-5.956	0.000	9.366	0.000	0.000	0.000	0.000	0.004	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	1096.000	-5.918	0.000	9.366	0.000	0.000	0.000	0.000	0.004	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 1097.000	ELEVATION -5.915	10-YEAR 0.000	100-YEAR 9.366	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1108.000 END	-5.876 END	0.000 NEW SURGE	9.366 NEW SURGE	0.000	0.000	0.000	0.000	0.004 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1109.000	-5.873	0.000	9.366	0.000	0.000	0.000	0.000	0.004	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	1120.000	-5.834	0.000	9.367	0.000	0.000	0.000	0.000	0.004	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 1121.000	ELEVATION -5.831	10-YEAR 0.000	100-YEAR 9.367	0.000	0.000	0.000	0 000	SLOPE 0.004	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1132.000 END	-5.793 END	0.000 NEW SURGE	9.367 NEW SURGE	0.000	0.000	0.000	0.000	0.004 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1133.000	-5.789	0.000	9.367	0.000	0.000	0.000	0.000	0.004	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	1144.000	-5.751	0.000	9.368	0.000	0.000	0.000	0.000	0.004	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 1145.000	ELEVATION -5.747	10-YEAR 0.000	100-YEAR 9.368	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES 0.000
OF	END	-5.747 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1156.000	-5.709	0.000 NEW SURGE	9.368	0.000	0.000	0.000	0.000	0.004	0.000 AVERAGE
	END STATION	END ELEVATION	10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	A-ZONES
OF	1157.000	-5.705	0.000	9.368	0.000	0.000	0.000	0.000	0.004	0.000
	END	END ELEVATION	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 1168.000	-5.656	10-YEAR 0.000	100-YEAR 9.369	0.000	0.000	0.000	0.000	SLOPE 0.005	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
0.0	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	1169.000 END	-5.650 END	0.000 NEW SURGE	9.369 NEW SURGE	0.000	0.000	0.000	0.000	0.005 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1181.000	-5.589	0.000	9.369	0.000	0.000	0.000	0.000	0.003	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	1195.000	-5.577	0.000	9.369	0.000	0.000	0.000	0.000	0.001	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 1196.000	ELEVATION -5.575	10-YEAR 0.000	100-YEAR 9.369	0.000	0.000	0.000	0.000	SLOPE 0.002	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
0.0	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	1207.000 END	-5.551 END	0.000 NEW SURGE	9.369 NEW SURGE	0.000	0.000	0.000	0.000	0.002 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1208.000	-5.549	0.000	9.369	0.000	0.000	0.000	0.000	0.002	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	1219.000	-5.526	0.000	9.369	0.000	0.000	0.000	0.000	0.002	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 1220.000	ELEVATION -5.523	10-YEAR 0.000	100-YEAR 9.369	0.000	0.000	0.000	0.000	SLOPE 0.002	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1232.000 END	-5.498 END	0.000 NEW SURGE	9.369 NEW SURGE	0.000	0.000	0.000	0.000	0.002 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1243.000	-5.474	0.000	9.369	0.000	0.000	0.000	0.000	0.002	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	1244.000	-5.472	0.000	9.369	0.000	0.000	0.000	0.000	0.002	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 1262.000	ELEVATION -5.433	10-YEAR 0.000	100-YEAR 9.369	0.000	0.000	0.000	0.000	SLOPE 0.012	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1276.000 END	-5.100 END	0.000 NEW SURGE	9.368 NEW SURGE	0.000	0.000	0.000	0.000	0.025 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1277.000	-5.054	0.000	9.368	0.000	0.000	0.000	0.000	0.039	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	1374.700	-1.285	0.000	9.363	0.000	0.000	0.000	0.000	0.040	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 1377.900	ELEVATION -0.975	10-YEAR 0.000	100-YEAR 9.363	0.000	0.000	0.000	0.000	SLOPE 0.127	A-ZONES 0.000
Or	END	-0.975 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1381.200 END	-0.460 END	0.000 NEW SURGE	9.360 NEW SURGE	0.000	0.000	0.000	0.000	0.127 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	AVERAGE A-ZONES
IF	1397.600	1.534	0.000	9.361	0.000	0.000	0.000	0.000	0.113	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	1400.900	1.761	0.000	9.366	0.000	0.000	0.000	0.000	0.069	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 1404.200	ELEVATION 1.990	10-YEAR 0.000	100-YEAR 9.372	0.000	0.000	0.000	0.000	SLOPE 0.073	A-ZONES 0.000
TT,	1707.200	1.330	0.000	9.3/2	0.000	0.000	0.000	0.000	0.0/3	0.000

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	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	1407.500	2.245	0.000	9.379	0.000	0.000	0.000	0.000	0.077	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	1410.800	2.499	0.000	9.386	0.000	0.000	0.000	0.000	0.078	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 1414.000	ELEVATION 2.754	10-YEAR 0.000	100-YEAR 9.394	0.000	0.000	0.000	0.000	SLOPE 0.097	A-ZONES 0.000
IF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1417.300 END	3.132 END	0.000 NEW SURGE	9.401 NEW SURGE	0.000	0.000	0.000	0.000	0.123 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1420.600	3.563	0.000	9.407	0.000	0.000	0.000	0.000	0.131	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	1423.900	3.994	0.000	9.417	0.000	0.000	0.000	0.000	0.112	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	1427.200	4.305	0.000	9.436	0.000	0.000	0.000	0.000	0.091	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 1430.400	ELEVATION 4.588	10-YEAR 0.000	100-YEAR 9.458	0.000	0.000	0.000	0.000	SLOPE 0.087	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
IF	1433.700 END	4.871 END	0.000 NEW SURGE	9.484 NEW SURGE	0.000	0.000	0.000	0.000	0.059 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1437.000 END	4.979 END	0.000 NEW SURGE	9.514 NEW SURGE	0.000	0.000	0.000	0.000	0.030 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1440.300	5.072	0.000	9.542	0.000	0.000	0.000	0.000	0.028	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	1443.600	5.164	0.000	9.557	0.000	0.000	0.000	0.000	0.061	0.000
	END	END	NEW SURGE	NEW SURGE 100-YEAR					BOTTOM	AVERAGE A-ZONES
IF	STATION 1446.800	ELEVATION 5.468	10-YEAR 0.000	9.572	0.000	0.000	0.000	0.000	SLOPE 0.106	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 1450.100	ELEVATION 5.855	10-YEAR 0.000	100-YEAR 9.592	0.000	0.000	0.000	0.000	SLOPE 0.097	A-ZONES 0.000
II	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000			SLOPE	A-ZONES
IF	1453.400 END	6.107 END	0.000 NEW SURGE	9.620 NEW SURGE	0.000	0.000	0.000	0.000	0.049 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1456.700 END	6.179 END	0.000 NEW SURGE	9.654 NEW SURGE	0.000	0.000	0.000	0.000	0.023 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1460.000	6.257	0.000	9.681	0.000	0.000	0.000	0.000	0.024	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	1463.300	6.340	0.000	9.705	0.000	0.000	0.000	0.000	0.010	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 1466.500	ELEVATION 6.323	10-YEAR 0.000	100-YEAR 9.729	0.000	0.000	0.000	0.000	SLOPE -0.015	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
IF	STATION 1469.800	ELEVATION 6.245	10-YEAR 0.000	100-YEAR 9.749	0.000	0.000	0.000	0.000	SLOPE 0.053	A-ZONES 0.000
II	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000			SLOPE	A-ZONES
IF	1473.100 END	6.672 END	0.000 NEW SURGE	9.755 NEW SURGE	0.000	0.000	0.000	0.000	0.095 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1476.400 END	6.872 END	0.000 NEW SURGE	9.770 NEW SURGE	0.000	0.000	0.000	0.000	0.046 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1479.700	6.974	0.000	9.789	0.000	0.000	0.000	0.000	0.031	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	1482.900	7.076	0.000	9.806	0.000	0.000	0.000	0.000	0.023	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	1486.200	7.124	0.000	9.823	0.000	0.000	0.000	0.000	0.013	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 1489.500	ELEVATION 7.162	10-YEAR 0.000	100-YEAR 9.838	0.000	0.000	0.000	0.000	SLOPE 0.011	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 1492.800	ELEVATION 7.199	10-YEAR 0.000	100-YEAR 9.851	0.000	0.000	0.000	0.000	SLOPE 0.011	A-ZONES 0.000
TL	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1496.100 END	7.233 END	0.000 NEW SURGE	9.861 NEW SURGE	0.000	0.000	0.000	0.000	0.009 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1499.300	7.260	0.000	9.871	0.000	0.000	0.000	0.000	0.008	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	1502.600	7.287	0.000	9.879	0.000	0.000	0.000	0.000	0.003	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	1505.900	7.279	0.000	9.887	0.000	0.000	0.000	0.000	-0.003	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 1509.200	ELEVATION 7.266	10-YEAR 0.000	100-YEAR 9.893	0.000	0.000	0.000	0.000	SLOPE -0.012	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE			-		BOTTOM	AVERAGE
IF	STATION 1512.500	ELEVATION 7.197	10-YEAR 0.000	100-YEAR 9.899	0.000	0.000	0.000	0.000	SLOPE -0.042	A-ZONES 0.000
11	END	END	NEW SURGE	NEW SURGE	3.000	0.000	3.000	0.000	BOTTOM	AVERAGE
TE	STATION	ELEVATION	10-YEAR	100-YEAR	0 000	0 000	0 000	0.000	SLOPE	A-ZONES
IF	1515.700	6.993	0.000	9.906	0.000	0.000	0.000	0.000	-0.063	0.000

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	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	1519.000	6.788	0.000	9.910	0.000	0.000	0.000	0.000	-0.047	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	1522.300	6.681	0.000	9.913	0.000	0.000	0.000	0.000	0.013	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 1525.600	ELEVATION 6.875	10-YEAR 0.000	100-YEAR 9.911	0.000	0.000	0.000	0.000	SLOPE 0.054	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
IF	STATION 1528.900	ELEVATION 7.038	10-YEAR 0.000	100-YEAR 9.911	0.000	0.000	0.000	0.000	SLOPE 0.056	A-ZONES 0.000
Tr	1528.900 END	7.038 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1532.100 END	7.239 END	0.000 NEW SURGE	9.910 NEW SURGE	0.000	0.000	0.000	0.000	0.093 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1535.400	7.644	0.000	9.907	0.000	0.000	0.000	0.000	0.123	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	1538.700	8.049	0.000	9.908	0.000	0.000	0.000	0.000	0.221	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	1542.000	9.105	0.000	9.972	0.000	0.000	0.000	0.000	0.370	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 1543.900	ELEVATION 9.972	10-YEAR 0.000	100-YEAR 9.972	0.000	0.000	0.000	0.000	SLOPE 0.457	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
7.0	STATION 1681.600	ELEVATION 9.604	10-YEAR 0.000	100-YEAR 9.604	0.000	0.000	0.000	0.000	SLOPE -0.021	A-ZONES 0.000
AS	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1685.500 END	9.521 END	0.000 NEW SURGE	9.604 NEW SURGE	0.000	0.000	0.000	0.000	0.000 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1692.200 END	9.604 END	0.000 NEW SURGE	9.604 NEW SURGE	0.000	0.000	0.000	0.000	0.012 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
AS	1705.600	9.604	0.000	9.604	0.000	0.000	0.000	0.000	-0.023	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	1710.000	9.501	0.000	9.604	0.000	0.000	0.000	0.000	0.000	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 1712.300	ELEVATION 9.604	10-YEAR 0.000	100-YEAR 9.604	0.000	0.000	0.000	0.000	SLOPE 0.045	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
AS	STATION 1816.100	ELEVATION 9.579	10-YEAR 0.000	100-YEAR 9.579	0.000	0.000	0.000	0.000	SLOPE -0.157	A-ZONES 0.000
AD	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000			SLOPE	A-ZONES
IF	1824.000 END	8.340 END	0.000 NEW SURGE	9.579 NEW SURGE	0.000	0.000	0.000	0.000	-0.022 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1853.500 END	8.747 END	0.000 NEW SURGE	9.579 NEW SURGE	0.000	0.000	0.000	0.000	0.012 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1885.000	9.042	0.000	9.579	0.000	0.000	0.000	0.000	0.008	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	1899.500	9.108	0.000	9.579	0.000	0.000	0.000	0.000	-0.026	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	1905.500	8.517	0.000	9.579	0.000	0.000	0.000	0.000	-0.050	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	1916.500	8.251	0.000	9.580	0.000	0.000	0.000	0.000	-0.006	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 1929.000	ELEVATION 8.386	10-YEAR 0.000	100-YEAR 9.580	0.000	0.000	0.000	0.000	SLOPE -0.001	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
IF	STATION 1941.000	ELEVATION 8.222	10-YEAR 0.000	100-YEAR 9.580	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES 0.000
T1,	END	END	NEW SURGE	NEW SURGE	3.000	0.000	0.000	0.000	BOTTOM	AVERAGE
T F2	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0 000	0.000	0 000	SLOPE -0.012	A-ZONES
IF	1950.000 END	8.481 END	0.000 NEW SURGE	9.580 NEW SURGE	0.000	0.000	0.000	0.000	-0.012 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1970.500 END	7.881 END	0.000 NEW SURGE	9.580 NEW SURGE	0.000	0.000	0.000	0.000	0.011 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2005.000 END	9.062	0.000 NEW SURGE	9.580 NEW SURGE	0.000	0.000	0.000	0.000	0.008 BOTTOM	0.000 AVERAGE
	STATION	END ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2023.000	8.320	0.000	9.580	0.000	0.000	0.000	0.000	-0.046	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	2033.500	7.749	0.000	9.580	0.000	0.000	0.000	0.000	-0.032	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 2051.500	ELEVATION 7.421	10-YEAR 0.000	100-YEAR 9.580	0.000	0.000	0.000	0.000	SLOPE -0.016	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 2066.000	ELEVATION 7.224	10-YEAR 0.000	100-YEAR 9.581	0.000	0.000	0.000	0.000	SLOPE 0.014	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	3.000	000	2.000	000	BOTTOM	AVERAGE
IF	STATION 2078.500	ELEVATION 7.795	10-YEAR 0.000	100-YEAR 9.581	0.000	0.000	0.000	0.000	SLOPE 0.015	A-ZONES 0.000
TL	2078.500 END	7.795 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0 000	0.000	0 000	SLOPE	A-ZONES
IF	2095.500 END	7.661 END	0.000 NEW SURGE	9.581 NEW SURGE	0.000	0.000	0.000	0.000	-0.015 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2108.000	7.365	0.000	9.581	0.000	0.000	0.000	0.000	-0.022	0.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	2118.500	7.159	0.000	9.581	0.000	0.000	0.000	0.000	0.001	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 2135.500	ELEVATION 7.402	10-YEAR 0.000	100-YEAR 9.580	0.000	0.000	0.000	0.000	SLOPE 0.006	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 2143.000	ELEVATION 7.300	10-YEAR 0.000	100-YEAR 9.580	0.000	0.000	0.000	0.000	SLOPE 0.051	A-ZONES 0.000
TL	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2149.500 END	8.110 END	0.000 NEW SURGE	9.580 NEW SURGE	0.000	0.000	0.000	0.000	0.000 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2160.500 END	7.300 END	0.000 NEW SURGE	9.580	0.000	0.000	0.000	0.000	-0.025	0.000
	STATION	ELEVATION	10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	2185.000	7.234	0.000	9.579	0.000	0.000	0.000	0.000	0.006	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	2215.500	7.651	0.000	9.578	0.000	0.000	0.000	0.000	-0.003	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 2229.000	ELEVATION 7.106	10-YEAR 0.000	100-YEAR 9.578	0.000	0.000	0.000	0.000	SLOPE -0.060	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 2235.000	ELEVATION 6.480	10-YEAR 0.000	100-YEAR 9.578	0.000	0.000	0.000	0.000	SLOPE -0.024	A-ZONES 0.000
II	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000				SLOPE	A-ZONES
IF	2247.000 END	6.667 END	0.000 NEW SURGE	9.578 NEW SURGE	0.000	0.000	0.000	0.000	0.014 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2260.500 END	6.831 END	0.000 NEW SURGE	9.578 NEW SURGE	0.000	0.000	0.000	0.000	0.016 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2269.500	7.028	0.000	9.578	0.000	0.000	0.000	0.000	0.011	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	2281.500	7.060	0.000	9.578	0.000	0.000	0.000	0.000	-0.012	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	2285.500	6.831	0.000	9.578	0.000	0.000	0.000	0.000	-0.013	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 2297.000	ELEVATION 6.864	10-YEAR 0.000	100-YEAR 9.578	0.000	0.000	0.000	0.000	SLOPE -0.032	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
IF	STATION 2311.000	ELEVATION 6.020	10-YEAR 0.000	100-YEAR 9.579	0.000	0.000	0.000	0.000	SLOPE 0.010	A-ZONES 0.000
TL	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2327.000 END	7.159 END	0.000 NEW SURGE	9.579 NEW SURGE	0.000	0.000	0.000	0.000	0.059 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2341.500 END	7.815 END	0.000 NEW SURGE	9.579	0.000	0.000	0.000	0.000	-0.004	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	A-ZONES
IF	2349.000	7.060	0.000	9.579	0.000	0.000	0.000	0.000	-0.044	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	2356.500	7.159	0.000	9.579	0.000	0.000	0.000	0.000	-0.066	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	2364.500	6.043	0.000	9.579	0.000	0.000	0.000	0.000	-0.066	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 2374.500	ELEVATION 5.978	10-YEAR 0.000	100-YEAR 9.580	0.000	0.000	0.000	0.000	SLOPE -0.051	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 2383.000	ELEVATION 5.092	10-YEAR 0.000	100-YEAR 9.580	0.000	0.000	0.000	0.000	SLOPE -0.031	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
TTP	STATION	ELEVATION E EE1	10-YEAR 0.000	100-YEAR	0 000	0.000	0 000	0.000	SLOPE -0.019	A-ZONES 0.000
IF	2388.500 END	5.551 END	NEW SURGE	9.580 NEW SURGE	0.000	0.000	0.000	0.000	-0.019 BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000		SLOPE	A-ZONES
IF	2395.000 END	4.862 END	0.000 NEW SURGE	9.580 NEW SURGE	0.000	0.000	0.000	0.000	-0.028 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2403.500 END	5.125 END	0.000 NEW SURGE	9.580 NEW SURGE	0.000	0.000	0.000	0.000	-0.009 BOTTOM	0.000 AVERAGE
		ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2431.000	4.534	0.000	9.580	0.000	0.000	0.000	0.000	-0.023	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	2437.000	4.370	0.000	9.580	0.000	0.000	0.000	0.000	-0.050	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	2447.500	3.714	0.000	9.580	0.000	0.000	0.000	0.000	-0.033	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 2454.000	ELEVATION 3.812	10-YEAR 0.000	100-YEAR 9.580	0.000	0.000	0.000	0.000	SLOPE 0.017	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 2465.000	ELEVATION 4.009	10-YEAR 0.000	100-YEAR 9.580	0.000	0.000	0.000	0.000	SLOPE -0.001	A-ZONES 0.000
± F	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
TP	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0 000	0.000	0 000	SLOPE	A-ZONES
IF	2477.000 END	3.780 END	0.000 NEW SURGE	9.580 NEW SURGE	0.000	0.000	0.000	0.000	0.003 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
IF	2489.500 END	4.075 END	0.000 NEW SURGE	9.581 NEW SURGE	0.000	0.000	0.000	0.000	0.010 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2497.500	3.976	0.000	9.581	0.000	0.000	0.000	0.000	-0.015	0.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	2506.500	3.812	0.000	9.581	0.000	0.000	0.000	0.000	-0.009	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2519.000 END	3.780 END	0.000 NEW SURGE	9.581 NEW SURGE	0.000	0.000	0.000	0.000	-0.009 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2531.500	3.583	0.000	9.581	0.000	0.000	0.000	0.000	0.004	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 2541.500	ELEVATION 3.878	10-YEAR 0.000	100-YEAR 9.581	0.000	0.000	0.000	0.000	SLOPE 0.010	A-ZONES 0.000
TI	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2561.000	3.878	0.000	9.581	0.000	0.000	0.000	0.000	-0.015	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	2570.000	3.451	0.000	9.581	0.000	0.000	0.000	0.000	-0.033	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 2580.000	ELEVATION 3.255	10-YEAR 0.000	100-YEAR 9.582	0.000	0.000	0.000	0.000	SLOPE 0.007	A-ZONES 0.000
IF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2604.500	3.681	0.000	9.582	0.000	0.000	0.000	0.000	0.032	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	2612.500	4.305	0.000	9.583	0.000	0.000	0.000	0.000	-0.013	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0 000	0.000	0.000	0 000	SLOPE	A-ZONES
IF	2630.000 END	3.353 END	0.000 NEW SURGE	9.583 NEW SURGE	0.000	0.000	0.000	0.000	-0.052 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2638.500	2.959	0.000	9.583	0.000	0.000	0.000	0.000	0.025	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	2661.500	4.140	0.000	9.584	0.000	0.000	0.000	0.000	0.042	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000			SLOPE	A-ZONES
IF	2670.500 END	4.305 END	0.000 NEW SURGE	9.584 NEW SURGE	0.000	0.000	0.000	0.000	-0.003 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2684.500	4.075	0.000	9.585	0.000	0.000	0.000	0.000	-0.021	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 2697.500	ELEVATION 3.747	10-YEAR 0.000	100-YEAR 9.585	0.000	0.000	0.000	0.000	SLOPE 0.000	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2708.000 END	4.075 END	0.000 NEW SURGE	9.585 NEW SURGE	0.000	0.000	0.000	0.000	0.029 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2720.500	4.403	0.000	9.585	0.000	0.000	0.000	0.000	0.019	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 2729.000	ELEVATION 4.469	10-YEAR 0.000	100-YEAR 9.586	0.000	0.000	0.000	0.000	SLOPE -0.009	A-ZONES 0.000
TI	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2738.000 END	4.239 END	0.000 NEW SURGE	9.586 NEW SURGE	0.000	0.000	0.000	0.000	-0.002 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2746.000	4.432	0.000	9.586	0.000	0.000	0.000	0.000	0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 2754.000	ELEVATION 4.665	10-YEAR 0.000	100-YEAR 9.586	0.000	0.000	0.000	0.000	SLOPE -0.009	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2764.500 END	4.272 END	0.000 NEW SURGE	9.587 NEW SURGE	0.000	0.000	0.000	0.000	-0.029 BOTTOM	0.000 AVERAGE
		ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2772.000	4.140	0.000	9.587	0.000	0.000	0.000	0.000	-0.002	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 2785.500	ELEVATION 4.239	10-YEAR 0.000	100-YEAR 9.587	0.000	0.000	0.000	0.000	SLOPE 0.008	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	3.000	3.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2792.000 END	4.301 END	0.000 NEW SURGE	9.587 NEW SURGE	0.000	0.000	0.000	0.000	-0.042 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2802.000	3.547	0.000	9.587	0.000	0.000	0.000	0.000	-0.015	0.000
	END	END ELEVATION	NEW SURGE	NEW SURGE 100-YEAR					BOTTOM	AVERAGE A-ZONES
IF	STATION 2816.000	3.944	10-YEAR 0.000	9.588	0.000	0.000	0.000	0.000	SLOPE 0.028	0.000
2.2	END	END	NEW SURGE	NEW SURGE	5.000	0.000	5.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2831.500 END	4.367 END	0.000 NEW SURGE	9.588 NEW SURGE	0.000	0.000	0.000	0.000	0.007 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2843.000	4.137	0.000	9.588	0.000	0.000	0.000	0.000	-0.020	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 2854.000	ELEVATION 3.908	10-YEAR 0.000	100-YEAR 9.589	0.000	0.000	0.000	0.000	SLOPE -0.020	A-ZONES 0.000
2.2	END	END	NEW SURGE	NEW SURGE	5.000	0.000	5.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2864.500 END	3.711 END	0.000 NEW SURGE	9.589 NEW SURGE	0.000	0.000	0.000	0.000	-0.003 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2873.500	3.842	0.000	9.589	0.000	0.000	0.000	0.000	0.012	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 2887.000	ELEVATION 3.973	10-YEAR 0.000	100-YEAR 9.590	0.000	0.000	0.000	0.000	SLOPE 0.017	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	3.000	3.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0 000	0 000	0.000	SLOPE	A-ZONES
IF	2892.500	4.170	0.000	9.590	0.000	0.000	0.000	0.000	-0.001	0.000

	END	END	NEW SURGE	NEW SURGE					BOTTOM SLOPE	AVERAGE
IF	STATION 2924.500	ELEVATION 3.940	10-YEAR 0.000	100-YEAR 9.590	0.000	0.000	0.000	0.000	-0.007	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2932.000 END	3.908	0.000 NEW SURGE	9.591	0.000	0.000	0.000	0.000	-0.004	0.000
	STATION	END ELEVATION	10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	2941.500	3.875	0.000	9.591	0.000	0.000	0.000	0.000	0.005	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
T 17	STATION	ELEVATION 4.006	10-YEAR 0.000	100-YEAR	0 000	0 000	0 000	0 000	SLOPE 0.015	A-ZONES 0.000
IF	2950.500 END	4.006 END	NEW SURGE	9.591 NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2959.000	4.137	0.000	9.591	0.000	0.000	0.000	0.000	-0.007	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	2970.000	3.875	0.000	9.591	0.000	0.000	0.000	0.000	-0.002	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2980.000 END	4.104 END	0.000 NEW SURGE	9.591 NEW SURGE	0.000	0.000	0.000	0.000	-0.002 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	2987.000	3.842	0.000	9.591	0.000	0.000	0.000	0.000	-0.025	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 2997.000	ELEVATION 3.678	10-YEAR 0.000	100-YEAR 9.592	0.000	0.000	0.000	0.000	SLOPE 0.007	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3011.000 END	4.006 END	0.000 NEW SURGE	9.592 NEW SURGE	0.000	0.000	0.000	0.000	-0.020 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3033.000	2.956	0.000	9.592	0.000	0.000	0.000	0.000	-0.015	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 3041.000	ELEVATION 3.547	10-YEAR 0.000	100-YEAR 9.592	0.000	0.000	0.000	0.000	SLOPE 0.027	A-ZONES 0.000
TI	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3074.000	4.071	0.000	9.592	0.000	0.000	0.000	0.000	0.009	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	3082.000	3.908	0.000	9.592	0.000	0.000	0.000	0.000	-0.028	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION 3099.000	ELEVATION	10-YEAR 0.000	100-YEAR	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES 0.000
IF	END	3.382 END	NEW SURGE	9.592 NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3104.500	4.006	0.000	9.592	0.000	0.000	0.000	0.000	0.029	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	3116.000	3.875	0.000	9.593	0.000	0.000	0.000	0.000	-0.010	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
IF	3129.500 END	3.743 END	0.000 NEW SURGE	9.593 NEW SURGE	0.000	0.000	0.000	0.000	-0.004 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3140.500	3.776	0.000	9.593	0.000	0.000	0.000	0.000	0.023	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	3151.000	4.236	0.000	9.593	0.000	0.000	0.000	0.000	0.028	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
IF	3160.500 END	4.334 END	0.000 NEW SURGE	9.593 NEW SURGE	0.000	0.000	0.000	0.000	-0.002 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3171.000	4.203	0.000	9.593	0.000	0.000	0.000	0.000	-0.008	0.000
	END	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	3186.500	4.137	0.000	9.593	0.000	0.000	0.000	0.000	-0.020	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0 000	0 000	SLOPE	A-ZONES
IF	3201.500 END	3.579 END	0.000 NEW SURGE	9.593 NEW SURGE	0.000	0.000	0.000	0.000	0.001 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3210.500	4.170	0.000	9.593	0.000	0.000	0.000	0.000	0.015	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	3230.000	4.006	0.000	9.594	0.000	0.000	0.000	0.000	-0.010	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 3236.500	ELEVATION 3.908	10-YEAR 0.000	100-YEAR 9.594	0.000	0.000	0.000	0.000	SLOPE -0.004	A-ZONES 0.000
IF	3236.500 END	3.908 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3247.500	3.940	0.000	9.594	0.000	0.000	0.000	0.000	0.003	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	3259.500	3.973	0.000	9.594	0.000	0.000	0.000	0.000	-0.011	0.000
	END	END	NEW SURGE	NEW SURGE		-	-		BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
IF	3270.500 END	3.678 END	0.000 NEW SURGE	9.594 NEW SURGE	0.000	0.000	0.000	0.000	-0.015 BOTTOM	0.000 AVERAGE
		ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3277.500	3.711	0.000	9.594	0.000	0.000	0.000	0.000	-0.001	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 3301.500	ELEVATION 3.645	10-YEAR 0.000	100-YEAR 9.594	0.000	0.000	0.000	0.000	SLOPE 0.001	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	3.000	0.000	0.000	3.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR		0.00-	0.00-	0.00	SLOPE	A-ZONES
IF	3307.500 END	3.743 END	0.000 NEW SURGE	9.594 NEW SURGE	0.000	0.000	0.000	0.000	0.000 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3321.000	3.645	0.000	9.594	0.000	0.000	0.000	0.000	0.000	0.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	3325.500	3.743	0.000	9.594	0.000	0.000	0.000	0.000	0.011	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3344.000 END	3.908 END	0.000 NEW SURGE	9.594 NEW SURGE	0.000	0.000	0.000	0.000	0.002 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3352.000	3.809	0.000	9.594	0.000	0.000	0.000	0.000	-0.001	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 3368.500	ELEVATION 3.875	10-YEAR 0.000	100-YEAR 9.595	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES 0.000
TT	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3383.000 END	3.940 END	0.000 NEW SURGE	9.595 NEW SURGE	0.000	0.000	0.000	0.000	-0.002 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3390.000	3.842	0.000	9.595	0.000	0.000	0.000	0.000	0.015	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 3409.500	ELEVATION 4.334	10-YEAR 0.000	100-YEAR 9.595	0.000	0.000	0.000	0.000	SLOPE 0.007	A-ZONES 0.000
TT	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3417.000 END	4.039 END	0.000 NEW SURGE	9.595 NEW SURGE	0.000	0.000	0.000	0.000	-0.002	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					BOTTOM SLOPE	A-ZONES
IF	3429.000	4.301	0.000	9.595	0.000	0.000	0.000	0.000	0.011	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 3438.000	ELEVATION 4.268	10-YEAR 0.000	100-YEAR 9.595	0.000	0.000	0.000	0.000	SLOPE 0.008	A-ZONES 0.000
TT	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3445.000 END	4.432 END	0.000 NEW SURGE	9.595	0.000	0.000	0.000	0.000	0.014	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	A-ZONES
IF	3456.500	4.531	0.000	9.595	0.000	0.000	0.000	0.000	0.009	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 3473.500	ELEVATION 4.695	10-YEAR 0.000	100-YEAR 9.595	0.000	0.000	0.000	0.000	SLOPE 0.022	A-ZONES 0.000
TL	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3480.000 END	5.056 END	0.000 NEW SURGE	9.595	0.000	0.000	0.000	0.000	-0.004	0.000
	STATION	ELEVATION	10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	3488.000	4.629	0.000	9.595	0.000	0.000	0.000	0.000	0.000	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 3499.000	ELEVATION 5.056	10-YEAR 0.000	100-YEAR 9.595	0.000	0.000	0.000	0.000	SLOPE 0.013	A-ZONES 0.000
IF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3511.500	4.924	0.000	9.595	0.000	0.000	0.000	0.000	-0.002	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	3519.500	5.023	0.000	9.595	0.000	0.000	0.000	0.000	-0.014	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 3526.000	ELEVATION 4.728	10-YEAR 0.000	100-YEAR 9.595	0.000	0.000	0.000	0.000	SLOPE 0.035	A-ZONES 0.000
IF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3534.500 END	5.548 END	0.000 NEW SURGE	9.595 NEW SURGE	0.000	0.000	0.000	0.000	0.014 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3545.000	4.990	0.000	9.595	0.000	0.000	0.000	0.000	-0.034	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 3554.000	ELEVATION 4.892	10-YEAR 0.000	100-YEAR 9.595	0.000	0.000	0.000	0.000	SLOPE -0.015	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
		ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3562.000 END	4.728 END	0.000 NEW SURGE	9.595 NEW SURGE	0.000	0.000	0.000	0.000	-0.007 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3569.000	4.793	0.000	9.595	0.000	0.000	0.000	0.000	-0.007	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE					BOTTOM	AVERAGE A-ZONES
IF	3580.500	4.596	0.000	100-YEAR 9.595	0.000	0.000	0.000	0.000	SLOPE 0.020	0.000
	END	END	NEW SURGE	NEW SURGE		-	-		BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
IF	3597.500 END	5.351 END	0.000 NEW SURGE	9.595 NEW SURGE	0.000	0.000	0.000	0.000	0.037 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3603.500	5.450	0.000	9.595	0.000	0.000	0.000	0.000	-0.009	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	3612.500	5.220	0.000	9.595	0.000	0.000	0.000	0.000	-0.013	0.000
-	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
IF	3619.000 END	5.253 END	0.000 NEW SURGE	9.595 NEW SURGE	0.000	0.000	0.000	0.000	-0.013 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3625.000	5.056	0.000	9.595	0.000	0.000	0.000	0.000	0.012	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	3632.500	5.417	0.000	9.595	0.000	0.000	0.000	0.000	-0.026	0.000
	END	END	NEW SURGE	NEW SURGE		-	-		BOTTOM	AVERAGE
717	STATION	ELEVATION	10-YEAR 0.000	100-YEAR	0 000	0 000	0 000	0.000	SLOPE 0 014	A-ZONES 0.000
IF	3639.000 END	4.695 END	NEW SURGE	9.595 NEW SURGE	0.000	0.000	0.000	0.000	0.014 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3649.500	5.646	0.000	9.595	0.000	0.000	0.000	0.000	0.048	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	3663.000	5.843	0.000	9.595	0.000	0.000	0.000	0.000	0.010	0.000

	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
TE	STATION	ELEVATION	10-YEAR	100-YEAR	0 000	0 000	0 000	0 000	SLOPE	A-ZONES
IF	3673.000 END	5.876 END	0.000 NEW SURGE	9.595 NEW SURGE	0.000	0.000	0.000	0.000	0.011 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3678.000	6.007	0.000	9.595	0.000	0.000	0.000	0.000	-0.040	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3689.500	5.220	0.000	9.595	0.000	0.000	0.000	0.000	-0.015	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	3704.000	5.614	0.000	9.595	0.000	0.000	0.000	0.000	0.012	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3716.500	5.548	0.000	9.595	0.000	0.000	0.000	0.000	-0.005	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	3724.000	5.515	0.000	9.595	0.000	0.000	0.000	0.000	-0.032	0.000
	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3731.000	5.089	0.000	9.595	0.000	0.000	0.000	0.000	0.004	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE A-ZONES
IF	STATION 3739.000	ELEVATION 5.581	10-YEAR 0.000	100-YEAR 9.595	0.000	0.000	0.000	0.000	SLOPE 0.028	0.000
	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3746.000	5.515	0.000	9.595	0.000	0.000	0.000	0.000	-0.009	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 3754.000	ELEVATION 5.450	10-YEAR 0.000	100-YEAR 9.595	0.000	0.000	0.000	0.000	SLOPE -0.014	A-ZONES 0.000
IF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3763.000	5.285	0.000	9.595	0.000	0.000	0.000	0.000	0.015	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 3771.000	ELEVATION 5.712	10-YEAR 0.000	100-YEAR 9.595	0.000	0.000	0.000	0.000	SLOPE 0.011	A-ZONES 0.000
TI	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3784.000	5.515	0.000	9.595	0.000	0.000	0.000	0.000	-0.011	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 3798.000	ELEVATION 5.417	10-YEAR 0.000	100-YEAR 9.595	0.000	0.000	0.000	0.000	SLOPE 0.051	A-ZONES 0.000
IF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3803.500	6.516	0.000	9.595	0.000	0.000	0.000	0.000	0.034	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 3811.000	ELEVATION 5.860	10-YEAR 0.000	100-YEAR 9.595	0.000	0.000	0.000	0.000	SLOPE -0.031	A-ZONES 0.000
IF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3823.500	5.889	0.000	9.595	0.000	0.000	0.000	0.000	0.032	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 3831.500	ELEVATION 6.516	10-YEAR 0.000	100-YEAR 9.595	0.000	0.000	0 000	0.000	SLOPE 0.062	A-ZONES 0.000
IF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3841.500	7.005	0.000	9.595	0.000	0.000	0.000	0.000	0.054	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 3851.000	ELEVATION 7.566	10-YEAR 0.000	100-YEAR 9.595	0.000	0.000	0.000	0.000	SLOPE 0.028	A-ZONES 0.000
IF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3865.500	7.680	0.000	9.595	0.000	0.000	0.000	0.000	0.034	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 3883.000	ELEVATION 8.665	10-YEAR 0.000	100-YEAR 9.595	0.000	0.000	0.000	0.000	SLOPE 0.042	A-ZONES 0.000
IF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3891.500	8.763	0.000	9.595	0.000	0.000	0.000	0.000	-0.010	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 3901.000	ELEVATION 8.481	10-YEAR 0.000	100-YEAR 9.595	0.000	0.000	0.000	0.000	SLOPE -0.020	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	3.000	0.000	0.000	5.550	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3915.000	8.304	0.000	9.595	0.000	0.000	0.000	0.000	-0.007	0.000
	END	END	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM	AVERAGE
IF	STATION 3932.000	ELEVATION 8.251	0.000	9.595	0.000	0.000	0.000	0.000	SLOPE 0.003	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3954.500	8.415	0.000	9.595	0.000	0.000	0.000	0.000	0.001	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	3971.500	8.287	0.000	9.595	0.000	0.000	0.000	0.000	0.037	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	3976.000	9.206	0.000 NEW SURGE	9.595	0.000	0.000	0.000	0.000	0.077	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	3986.000	9.400	0.000	9.595	0.000	0.000	0.000	0.000	-0.004	0.000
	END	END	NEW SURGE	NEW SURGE		-	-		BOTTOM	AVERAGE
		ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	4004.000	9.108	0.000	9.595	0.000	0.000	0.000	0.000	-0.006	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	4029.000	9.140	0.000	9.595	0.000	0.000	0.000	0.000	0.014	0.000
	END	END	NEW SURGE	NEW SURGE		-	-		BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0 000	0 000	0.000	SLOPE	A-ZONES
IF	4039.600 END	9.595 END	0.000 NEW SURGE	9.595 NEW SURGE	0.000	0.000	0.000	0.000	0.043 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
AS	4073.900	9.595	0.000	9.595	0.000	0.000	0.000	0.000	-0.010	0.000

	END	END	NEW SURGE 10-YEAR	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 4075.000	ELEVATION 9.583	0.000	100-YEAR 9.595	0.000	0.000	0.000	0.000	SLOPE 0.000	A-ZONES 0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	4075.300	9.595	0.000	9.595	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
AS	4123.100	9.604	0.000	9.604	0.000	0.000	0.000	0.000	-0.009	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 4129.000	ELEVATION 9.550	10-YEAR 0.000	100-YEAR 9.604	0.000	0.000	0.000	0.000	SLOPE 0.000	A-ZONES 0.000
LF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	4129.700	9.604	0.000	9.604	0.000	0.000	0.000	0.000	0.077	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
AS	4206.700	9.604	0.000	9.604	0.000	0.000	0.000	0.000	-0.144	0.000
	END STATION	END	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	4210.500	ELEVATION 9.058	0.000	9.604	0.000	0.000	0.000	0.000	-0.049	0.000
LL	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	4222.000	8.861	0.000	9.604	0.000	0.000	0.000	0.000	0.015	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	4232.500	9.387	0.000	9.604	0.000	0.000	0.000	0.000	0.049	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	4237.000	9.604	0.000	9.604	0.000	0.000	0.000	0.000	0.048	0.000
	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
AS	4270.400	9.603	0.000	9.603	0.000	0.000	0.000	0.000	-0.083	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	4276.000	9.140	0.000	9.603	0.000	0.000	0.000	0.000	-0.022	0.000
	END	END	NEW SURGE 10-YEAR	NEW SURGE					BOTTOM SLOPE	AVERAGE A-ZONES
IF	STATION 4286.000	ELEVATION 9.255	0.000	100-YEAR 9.603	0.000	0.000	0.000	0.000	-0.021	0.000
LF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	4296.000	8.730	0.000	9.603	0.000	0.000	0.000	0.000	-0.022	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	4303.000	8.875	0.000	9.603	0.000	0.000	0.000	0.000	0.024	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 4314.000	ELEVATION 9.170	10-YEAR 0.000	100-YEAR 9.603	0.000	0.000	0.000	0.000	SLOPE -0.010	A-ZONES 0.000
LF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	4326.500	8.645	0.000	9.604	0.000	0.000	0.000	0.000	-0.011	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0 000	0 000	0 000	0 000	SLOPE	A-ZONES
IF	4338.000	8.911 END	0.000 NEW SURGE	9.604	0.000	0.000	0.000	0.000	0.029 BOTTOM	0.000
	END STATION	ELEVATION	10-YEAR	NEW SURGE 100-YEAR					SLOPE	AVERAGE A-ZONES
IF	4347.000	9.236	0.000	9.604	0.000	0.000	0.000	0.000	0.010	0.000
	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	4360.000	9.140	0.000	9.604	0.000	0.000	0.000	0.000	-0.017	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0 000	0 000	0 000	0 000	SLOPE	A-ZONES
IF	4374.500	8.776	0.000 NEW SURGE	9.604	0.000	0.000	0.000	0.000	0.022 BOTTOM	0.000
	END STATION	ELEVATION	10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	4379.000	9.567	0.000	9.604	0.000	0.000	0.000	0.000	0.032	0.000
	END		NEW SURGE		0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
		ELEVATION	10-YEAR	100-YEAR						A-ZONES
IF	4386.000	9.140	0.000	9.604	0.000	0.000	0.000	0.000	SLOPE -0.013	0.000
	END		NEW SURGE						BOTTOM	AVERAGE
		ELEVATION	10-YEAR	100-YEAR		0.000	0.000		SLOPE	A-ZONES
IF	4401.500	9.272	0.000		0.000	0.000	0.000	0.000	0.013 BOTTOM	0.000 AVERAGE
	END	ELEVATION	NEW SURGE 10-YEAR	100-YEAR						AVERAGE A-ZONES
IF	4416.500	9.531	0.000	9.604	0.000	0.000	0.000	0.000	SLOPE 0.020	0.000
	END		NEW SURGE	NEW SURGE	3.000	3.000	0.000	0.000	BOTTOM	
		ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
ΙF	4417.900	9.604	0.000	9.604	0.000	0.000	0.000	0.000	0.052	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	
		ELEVATION		100-YEAR	0 000	0 000	0.000	0.000	SLOPE -0.076	A-ZONES
AS	4438.600		0.000		0.000	0.000	0.000	0.000		
	END	ELEVATION	NEW SURGE	100					BOTTOM	AVERAGE
IF		9.042	0.000	9.604	0.000	0.000	0.000	0.000	0.000	U UUU
			NEW SURGE	NEW SURGE	5.000	0.000	0.000	0.000	SLOPE 0.000 BOTTOM	AVERAGE
		ELEVATION		100-YEAR					SLOPE	A-ZONES
IF	4453.900	9.604	0.000	9.604	0.000	0.000	0.000	0.000		0.000
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SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2:				ST ELEVATIONS WAVE CREST
IE	0.00	9.18	13.21	15.79
OF	3.00	9.19	13.21	15.79
OF	4.00	9.19	13.21	15.79
OF	9.00	9.19	13.21	15.79
OF	10.00	9.19	13.21	15.79
OF	15.00	9.20	13.21	15.80
OF	16.00	9.20	13.21	15.80

OFF	21.00 22.00 27.00 28.00 27.00 28.00 27.00 28.00 39.00 34.00 39.00 45.00 45.00 55.00 57.00 58.00 63.00 64.00 69.00 70.00 76.00 91.00 96.00 91.00 97.00 102.00 103.00 103.00 109.00 114.00 121.00 121.00 121.00 125.00 127.00 132.00 139.00 144.00 156.00 157.00 169.00 169.00 170.00	9.20 9.21 9.21 9.22 9.22 9.22 9.22 9.22 9.23 9.24 9.25 9.26 9.27 9.29 9.30 9.33 9.33 9.33 9.33 9.33 9.33 9.38 9.38 9.38 9.38 9.38 9.38 9.38 9.38 9.39 9.30 9.40 9.40 9.55 9.55 9.55 9.58 9.64 9.70 9.77 9.83 9.94 9.99 9.90 9.90 9.91 9.92 9.93 9.92 9.93 9.94 9.96	13. 21 13	15. 80 15. 81 15. 83 15. 83 16. 83 16. 93 16. 94 16. 94 16
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OF	675.00	10.08	13.21	16.42
OF	676.00	10.08	13.21	16.42
OF	687.00	10.08	13.21	16.42
OF	688.00	10.09	13.21	16.42
OF	699.00	10.09	13.21	16.42
OF	700.00	10.09	13.21	16.42
OF	711.00	10.09	13.21	16.42
OF	712.00	10.09	13.21	16.42
OF	723.00	10.09	13.21	16.42
OF	724.00	10.09	13.21	16.43
OF	735.00	10.09	13.21	16.43
OF	736.00	10.10	13.21	16.43
OF	747.00	10.10	13.21	16.43
OF	748.00	10.10	13.21	16.43
OF	759.00	10.10	13.21	16.43
OF	760.00	10.10	13.21	16.43
OF	772.00	10.10	13.21	16.43
OF	778.00	10.10	13.21	16.43
	781.00		13.21	16.43
OF	792.00	10.10 10.10	13.21	16.43
OF	793.00	10.10	13.21	16.43
OF OF	804.00	10.10	13.21	16.43
OF	805.00	10.10	13.21	16.43
	816.00	10.10	13.21	16.43
OF OF	817.00	10.09	13.21	16.43
OF	828.00	10.09	13.21	16.42
OF	829.00	10.09	13.21	16.42
OF	840.00	10.08	13.21	16.42
OF	841.00	10.08	13.21	16.42
OF	852.00	10.08	13.21	16.41
OF	853.00	10.08	13.21	16.42
OF	864.00	10.07	13.21	16.41
OF	865.00	10.07	13.21	16.41
OF	876.00	10.07	13.21	16.41
OF	877.00	10.07	13.21	16.41
OF	888.00	10.06	13.21	16.40
OF	889.00	10.06	13.21	16.40
OF	900.00	10.05	13.21	16.40
OF	901.00	10.05	13.21	16.40
OF	912.00	10.04	13.21	16.39
OF	913.00	10.04	13.21	16.39
OF	924.00	10.03	13.21	16.38
OF	925.00	10.03	13.21	16.38
OF	936.00	10.02	13.21	16.38
OF	937.00	10.02	13.21	16.38
OF	948.00	10.01	13.21	16.37
OF	949.00	10.01	13.21	16.37
OF	960.00	10.00	13.21	16.37
OF	961.00	10.01	13.21	16.37
OF	972.00	10.00	13.21	16.36
OF	973.00	10.00	13.21	16.36
OF	984.00	9.99	13.21	16.36
OF	985.00	9.99	13.21	16.36
OF	996.00	9.98	13.21	16.35
OF	997.00	9.98	13.21	16.35
OF	1008.00	9.97	13.21	16.34
OF	1009.00	9.97	13.21	16.34
OF	1020.00	9.96	13.21	16.33
OF	1021.00	9.96 9.94	13.21	16.33
OF OF	1032.00 1033.00	9.94	13.21 13.21	16.32 16.33
OF	1044.00	9.93	13.21	16.32
OF	1045.00	9.93	13.21	16.32
OF	1056.00	9.92	13.21	16.31
OF	1057.00	9.92	13.21	16.31
OF	1072.00	9.91	13.21	16.30
OF	1073.00	9.91	13.21	16.30
OF	1084.00	9.91	13.21	16.30
OF	1085.00	9.91	13.21	16.30
OF	1096.00	9.90	13.21	16.30
OF	1097.00	9.91	13.21	16.30
OF	1108.00	9.90	13.21	16.30
OF	1109.00	9.90	13.21	16.30
OF	1120.00	9.90	13.21	16.30
OF	1121.00	9.90	13.21	16.30
OF	1132.00	9.90	13.21	16.30
OF	1133.00	9.90	13.21	16.30
OF	1144.00	9.90 9.90	13.21	16.30 16.30
OF	1145.00 1156.00	9.90	13.21 13.21	16.30 16.29
OF OF	1157.00	9.89	13.21	16.29
OF	1168.00	9.89	13.21	16.29
OF	1169.00	9.89	13.21	16.29
OF	1181.00	9.88	13.21	16.29
OF	1195.00	9.88	13.21	16.29
OF	1196.00	9.89	13.21	16.29
OF	1207.00	9.88	13.21	16.29
OF	1208.00	9.89	13.21	16.29
OF	1219.00	9.88	13.21	16.29
OF	1220.00	9.89	13.21	16.29
OF	1232.00	9.88	13.21	16.29
OF	1243.00	9.88	13.21	16.29
OF	1244.00	9.88	13.21	16.29
OF	1262.00	9.88	13.21	16.28
OF	1276.00	9.83	13.21	16.25
OF	1277.00	9.82	13.21	16.24
OF	1374.70	8.15	13.21	15.07
OF	1377.90	7.92	13.21	14.91
OF	1381.20	7.53	13.21	14.63
IF	1397.60	6.02 5.85	13.21	13.58
IF IF	1400.90 1404.20	5.85 5.68	13.21 13.21	13.46 13.35
TL	1704.20	3.08	13.41	13.35

IFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	1407.50 1410.80 14117.30 1420.60 14147.20 1430.40 1427.20 1430.40 1433.70 1437.00 1446.80 1450.10 1446.80 1450.10 1456.70 1460.00 1463.30 1466.50 1469.80 1479.70 1482.90 1482.90 1482.90 1482.90 1486.20 1489.50 1499.30 1502.60 1505.90 1505.90 1505.90 1515.50 1515.70 1519.00 1522.30 1515.70 1519.00 1522.30 1512.50 1518.70 1518.70 1518.70 1519.00 1522.30 1515.70 1519.00 1522.30 1509.20 1512.50 1515.70 1519.00 1522.30 1509.20 1512.50 1515.50 1515.50 1515.50 1515.50 1515.50 1515.50 1515.50 1515.50 1515.50 1515.50 1515.50 1515.50 1515.50 1515.50 152.50 15	5.50 5.31 5.42 4.84 4.51 4.97 3.97 3.77 3.551 3.46 3.18 2.90 2.65 2.64 2.32 2.69 2.65 2.64 2.32 2.08 2.10 2.08 2.10 2.08 2.11 2.13 2.08 2.01 2.02 2.04 2.11 2.13 2.08 2.10 2.08 2.11 2.13 2.08 2.01 2.02 2.04 2.01 2.03 2.01 2.02 2.04 2.01 2.08 2.11 2.13 2.08 2.01 2.08 2.11 2.13 2.08 2.01 2.08 2.01 2.08 2.01 2.08 2.01 2.08 2.01 2.08 2.01 2.08 2.01 2.08 2.01 2.08 2.01 2.08 2.01 2.08 2.01 2.08 2.01 2.08 2.01 2.08 2.01 2.08 2.01 2.08 2.01 2.08 2.01 2.08 2.09 2.09 2.01 2.08 2.01 2.08 2.01 2.08 2.01 2.08 2.01 2.08 2.09 2.09 2.09 2.09 2.09 2.09 2.09 2.09	13. 21 13	13.23 13.10 12.98 12.79 12.57 12.35 12.21 12.09 11.96 11.62 11.54 11.54 11.54 11.54 11.54 11.59 11.20 11.30 11.31 11.31 11.33 11.36 11.37 11.34 10.92 10.94 10.95 10.00
IF IF IF	2388.50 2395.00 2403.50 2431.00	0.97 0.98 0.99 1.03	1.16 1.16 1.17 1.19	10.26 10.27 10.27 10.30

IF	2506.50	1.12	1.23	10.36
IF	2519.00	1.13	1.24	10.37
IF	2531.50	1.14	1.25	10.38
IF	2541.50	1.15	1.26	10.39
IF	2561.00	1.17	1.27	10.40
IF	2570.00	1.18	1.27	10.41
IF	2580.00	1.19	1.28	10.42
IF	2604.50	1.22	1.29	10.43
IF	2612.50	1.22	1.29	10.44
IF	2630.00	1.24	1.30	10.45
IF	2638.50	1.25	1.31	10.46
IF	2661.50	1.27	1.32	10.48
IF	2670.50	1.28	1.33	10.48
IF IF IF	2684.50 2697.50 2708.00 2720.50	1.30 1.31 1.32	1.33 1.34 1.34	10.49 10.50 10.51 10.51
IF IF IF IF	2729.00 2738.00 2746.00	1.33 1.34 1.35 1.35	1.35 1.35 1.36 1.36	10.51 10.52 10.53 10.53
IF	2754.00	1.36	1.37	10.54
IF	2764.50	1.37	1.37	10.55
IF	2772.00	1.38	1.38	10.55
IF	2785.50	1.39	1.38	10.56
IF	2792.00	1.40	1.39	10.56
IF	2802.00	1.41	1.39	10.57
IF	2816.00	1.42	1.40	10.58
IF	2831.50	1.43	1.40	10.59
IF	2843.00	1.44	1.41	10.60
IF	2854.00	1.45	1.41	10.61
IF	2864.50	1.47	1.42	10.62
IF	2873.50	1.47	1.42	10.62
IF	2887.00	1.48	1.43	10.63
IF	2892.50	1.49	1.43	10.63
IF	2924.50	1.52	1.44	10.65
IF	2932.00	1.52	1.45	10.66
IF	2941.50	1.53	1.45	10.66
IF	2950.50	1.54	1.46	10.67
IF	2959.00	1.54	1.46	10.67
IF	2970.00	1.56	1.46	10.68
IF	2980.00	1.56	1.47	10.68
IF	2987.00	1.57	1.47	10.69
IF	2997.00	1.58	1.48	10.70
IF	3011.00	1.59	1.48	10.70
IF	3033.00	1.62	1.49	10.72
IF	3041.00	1.62	1.49	10.72
IF	3074.00	1.64	1.51	10.74
IF	3082.00	1.65	1.51	10.75
IF	3099.00	1.67	1.52	10.76
IF	3104.50	1.66	1.52	10.76
IF	3116.00	1.68	1.52	10.77
IF	3129.50	1.69	1.53	10.77
IF	3140.50	1.70	1.53	10.78
IF	3151.00	1.69	1.54	10.78
IF	3160.50	1.70	1.54	10.78
IF	3171.00	1.71	1.54	10.79
IF	3186.50	1.72	1.55	10.80
IF	3201.50	1.74	1.55	10.81
IF	3210.50	1.74	1.56	10.81
IF	3230.00	1.76	1.57	10.82
IF	3236.50	1.76	1.57	10.83
IF	3247.50	1.77	1.57	10.83
IF	3259.50	1.78	1.58	10.84
IF	3270.50	1.79	1.58	10.85
IF	3277.50	1.80	1.58	10.85
IF	3301.50	1.82	1.59	10.87
IF	3307.50	1.82	1.59	10.87
IF	3321.00	1.83	1.60	10.88
IF	3325.50	1.83	1.60	10.88
IF	3344.00	1.84	1.61	10.88
IF	3352.00	1.85	1.61	10.89
IF	3368.50	1.86	1.61	10.90
IF	3383.00	1.87	1.62	10.90
IF	3390.00	1.87	1.62	10.91
IF	3409.50	1.87	1.63	10.90
IF	3417.00	1.89	1.63	10.91
IF	3429.00	1.89	1.63	10.91
IF	3438.00	1.89	1.64	10.92
IF	3445.00	1.89	1.64	10.92
IF	3456.50	1.89	1.64	10.92
IF	3473.50	1.89	1.65	10.92
IF	3480.00	1.86	1.65	10.89
IF	3488.00	1.89	1.65	10.92
IF	3499.00	1.87	1.66	10.90
IF	3511.50	1.89	1.66	10.92
IF	3519.50	1.88	1.66	10.91
IF	3526.00	1.91	1.67	10.93
IF	3534.50	1.82	1.67	10.87
IF	3545.00	1.89	1.67	10.92
IF	3554.00	1.91	1.67	10.93
IF	3562.00	1.93	1.68	10.94
IF	3569.00	1.93	1.68	10.94
IF	3580.50	1.95	1.68	10.96
IF	3597.50	1.88	1.69	10.91
IF IF IF	3603.50 3612.50 3619.00 3625.00	1.87 1.89 1.89 1.92	1.69 1.69 1.69 1.70	10.90 10.92 10.92 10.94
IF	3632.50	1.89	1.70	10.92
IF	3639.00	1.97	1.70	10.97
IF	3649.50	1.86	1.70	10.89
IF	3663.00	1.82	1.71	10.87

```
3673.00
                                                           10.87
 ΙF
                                            1.71
1.72
1.72
 IF
        3678.00
                            1.79
                                                           10.85
                            1.88
 IF
        3689.50
                                                           10.91
 ΙF
        3704.00
                                            1.72
1.73
 TF
        3716.50
                            1.85
                                                           10.89
        3724.00
 ΙF
                            1.86
                                                           10.90
                            1.92
                                            1.73
                                                           10.94
                                            1.73
1.73
 TF
        3739.00
                            1.86
                                                           10 90
        3746.00
                            1.87
                                                           10.90
 IF
 ΙF
        3754.00
                            1.88
                                            1.73
                                                           10.91
 TF
        3763.00
3771.00
                            1.91
                                            1.74
                                                           10 93
                            1.87
                                            1.74
 IF
                                                           10.91
 ΙF
        3784.00
                            1.89
                                            1.74
                                                           10.92
        3798.00
 TF
                            1 91
                                            1 75
                                                           10 93
        3803.50
                                            1.75
 ΙF
                            1.69
                                                           10.78
                            1.76
 IF
        3811.00
                                            1.75
                                                           10.83
 IF
        3823.50
                                            1.75
                                                           10.83
                            1.70
1.53
1.28
        3831.50
                                            1.76
 ΙF
                                                           10.78
 IF
        3841.50
                                            1.76
                                                           10.66
 IF
        3851.00
                                            1.76
                                                           10.49
                                            1.77
1.77
1.77
        3865.50
                            1.23
 ΙF
                                                           10.46
                            0.66
 IF
        3883.00
                                                           10.06
                            0.60
        3891.50
 IF
                                                           10.01
        3901.00
                            0.63
                                            1.78
                                                           10.04
 ΙF
 IF
        3915.00
3932.00
                            0.64
                                            1.78
1.78
                                                           10.05
                            0.68
                                                           10.07
 ΙF
                            0.72
        3954.50
                                            1.79
 ΙF
                                                           10.10
 TF
        3971.50
                                            1.80
                                                           10.12
 IF
        3976.00
                            0.29
                                            1.80
                                                            9.80
                            0.15
0.27
0.34
 IF
        3986.00
                                                            9.70
        4004.00
                                                            9.78
 TF
                                            1.80
 IF
        4029.00
                                            1.80
                                                            9.83
 IF
        4039.60
                            0.01
                                            1.80
                                                            9.60
 AS
        4073.90
                            0.00
                                            0.00
                                                            9.60
        4075.00
                            0.01
                                            0.16
                                                            9.60
 IF
 ΙF
        4075.30
                            0.01
                                            0.17
                                                            9.60
        4123.10
                            0.00
                                                            9.60
 AS
                                            0.00
 IF
        4129.00
                            0.03
                                            0.26
                                                            9.63
        4129.70
4206.70
                                            0.27
 ΙF
                            0.01
                                                            9.61
 AS
                            0.00
                                                            9.60
 IF
        4210.50
                            0.04
                                            0.23
                                                            9.63
                                            0.35
                                                            9.67
9.68
 ΙF
        4222.00
                            0.09
 IF
        4232.50
                            0.11
 IF
        4237.00
                            0.01
                                            0.44
                                                            9.61
        4270.40
4276.00
                            0.00
                                                            9.60
9.64
 AS
                                            0.00
 IF
                                            0.25
 IF
        4286.00
                            0.09
                                            0.35
                                                            9.67
 IF
        4296.00
4303.00
                            0.13
0.15
                                            0.42
                                                            9.69
9.71
 ΙF
 ΙF
        4314.00
                            0.17
                                            0.49
                                                            9.72
        4326.50
4338.00
                            0.21
                                            0.54
0.57
                                                            9.75
9.77
 IF
 IF
 IF
        4347.00
                            0.20
                                            0.60
                                                            9.74
 IF
        4360.00
                            0.24
                                            0.63
                                                            9.77
9.82
        4374.50
 IF
 IF
        4379.00
                            0.03
                                            0.67
                                                            9.62
 TF
        4386.00
4401.50
                            0.14
                                            0.68
                                                            9.70
 IF
                                                            9.75
 IF
        4416.50
                            0.05
                                            0.74
                                                            9.64
        4417.90
4438.60
                                            0.74
 TF
                            0.01
                                                            9.61
                            0.00
                                            0.00
                                                            9.60
 AS
 IF
        4446.00
                            0.06
                                            0.28
                                                            9.64
 IF
                                            0.35
        4453.90
                            0.01
                                                            9.61
 PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE
                   1543.90 AND
1692.20 AND
1712.30 AND
       BETWEEN
                                    1681.60
1705.60
       BETWEEN
       BETWEEN
                                    4073.90
4123.10
       BETWEEN
                   4039.60 AND
                   4075.30 AND
4129.70 AND
       BETWEEN
       BETWEEN
                   4237.00 AND
4417.90 AND
                                     4270.40
                                     4438.60
       BETWEEN
             PART4 LOCATION OF SURGE CHANGES
 STATION
                     10-YEAR SURGE
                                                  100-YEAR SURGE
                                                       9.36
9.36
                             1.00
 58.00
  84.00
                             1.00
                             1.00
                                                       9.36
 126.00
                                                       9.36
 180.00
                                                       9.36
9.36
 240.00
                             1.00
                             1.00
 298.00
 562.00
                                                       9.36
 614.00
                             1.00
                                                       9.36
 675.00
                             1.00
                                                       9.36
                             1.00
1.00
1.00
 735.00
                                                       9.36
 804.00
                                                       9.36
 900.00
                                                       9.36
                             1.00
                                                       9.36
 984.00
                             1.00
1056.00
                                                       9.36
1085.00
                                                       9.37
1120.00
                             1.00
                                                       9.37
                                                       9.37
1144.00
                             1.00
                             1.00
1168.00
1276.00
                             1.00
                                                       9.37
1374.70
                             1.00
                                                       9.36
1381.20
                             1.00
                                                       9.36
1397.60
                             1.00
1400.90
                             1.00
                                                       9.37
                             1.00
1404.20
                                                       9.37
1407.50
                             1.00
                                                       9.39
1410.80
                             1.00
                             1.00
1414.00
                                                        9.39
1417.30
                             1.00
                                                       9.40
```

1420.60 1423.90 1427.20 1430.40 1431.00 1443.700 14437.00 14440.30 1445.80 1450.10 1453.40 1456.70 1460.00 1463.30 1466.50 1469.80 1473.10 1476.40 1479.70 1482.90 1486.20 1488.20 1498.10 1499.30 1502.60 1505.90 1509.20 1515.70 1519.00 1522.30 1525.60 1532.10 1538.70 1542.00 1681.60 1816.10 1916.50 2066.00 2135.50 2185.00 2215.50 2285.00 2215.50 2285.00 2215.50 2285.00 2215.50 2285.00 2215.50 2285.00 2215.50 2285.00 2215.50 2285.00 2217.50 2285.00 2217.50 2285.00 2217.50 2285.00 2217.50 2285.00 2217.50 2311.00 2377.50 2489.50 22887.00 22997.00 2764.50 2729.00 2764.50 2887.00 2997.00 3116.00 3323.00 3368.50 4123.10 4270.40 4326.50		OF V ZO	9.41 9.44 9.46 9.42 9.44 9.46 9.46 9.51 9.57 9.59 9.65 9.77 9.77 9.77 9.77 9.77 9.78 9.81 9.83 9.83 9.89 9.89 9.89 9.89 9.89 9.89	
	NUMBERED A ZO	ONES AND		BIIB
STATION OF GUTTER 0.00	15.79		EL=16	FHF 130
57.00	15.83		EL=16	130
58.00	15.83		EL=16	130
79.00	15.86		EL=16	130
84.00	15.87	V23	EL=16	130
121.00	15.99	V23	EL=16	130
126.00	16.00	V23	EL=16	130
169.00	16.15	V23	EL=16	130
180.00	16.19	V23	EL=16	130
229.00	16.36		EL=16	130
240.00	16.33	V23	EL=16	130
287.00	16.31	V23	EL=16	130
298.00	16.31	V23	EL=16	130
443.00	16.30	V23	EL=16	130
562.00	16.38	V23	EL=16	130
614.00	16.41	V23	EL=16	130
664.00	16.42			

675.00	16.42	V23	EL=16	130
724.00	16.43	V23	EL=16	130
735.00	16.43	V23	EL=16	130
793.00	16.43	V23	EL=16	130
804.00	16.43	V23	EL=16	130
889.00	16.40	V23	EL=16	130
900.00	16.40	V23	EL=16	130
973.00	16.36	V23	EL=16	130
984.00	16.36	V23	EL=16	130
1045.00	16.32	V23	EL=16	130
1056.00	16.31	V23	EL=16	130
1084.00	16.30	V23	EL=16	130
1085.00	16.30	V23	EL=16	130
1109.00	16.30	V23	EL=16	130
1120.00	16.30	V23	EL=16	130
		V23	EL=16	130
1133.00 1144.00	16.30	V23	EL=16	130
	16.30	V23	EL=16	130
1157.00	16.29	V23	EL=16	130
1168.00	16.29	V23	EL=16	130
1262.00	16.28	V23	EL=16	130
1276.00	16.25	V23	EL=16	130
1277.00	16.24	V23	EL=16	130
1338.90	15.50	V23	EL=15	130
1374.70	15.07	V23	EL=15	130
1377.90	14.91	V23	EL=15	130
1381.20	14.63	V23	EL=15	130
1383.23	14.50	V23	EL=14	130
1397.60	13.58	V23	EL=14	130
1399.83	13.50	V23	EL=13	130
1400.90	13.46	V23	EL=13	130
1404.20	13.35	V23	EL=13	130
1407.50	13.23	V23	EL=13	130
1410.80	13.10	V23	EL=13	130
1414.00	12.98	V23	EL=13	130
1417.30	12.79	V23	EL=13	130
1420.60	12.57	V23	EL=13	130
1421.60	12.50	V23	EL=12	130
1423.90	12.35	V23	EL=12	130
1427.20	12.21	V23	EL=12	130
1430.40	12.09	V23	EL=12	130
1433.70	11.98	V23	EL=12	130
1437.00	11.97	V23	EL=12	130
1440.30	11.96	V23	EL=12	130
1443.60	11.94	V23	EL=12	130
1446.80	11.80	V23	EL=12	130
1448.88	11.68	A19	EL=12	95
1450.10	11.62	A19	EL=12	95
1453.40	11.53	A19	EL=12	95
1456.70	11.54	A19	EL=12	95
1460.00	11.54	A19	EL=12	95
1463.30	11.53			

1466.50	11.56	A19	EL=12	95
1469.80	11.60	A19	EL=12	95
1471.71	11.50	A19	EL=12	95
1473.10	11.43	A19	EL=11	95
1476.40	11.34	A19	EL=11	95
1479.70	11.32	A19	EL=11	95
1482.90	11.29	A19	EL=11	95
1486.20	11.29	A19	EL=11	95
1489.50	11.29	A19	EL=11	95
1492.80	11.29	A19	EL=11	95
1496.10	11.29	A19	EL=11	95
1499.30	11.29	A19	EL=11	95
1502.60	11.29	A19	EL=11	95
1505.90	11.30	A19	EL=11	95
1509.20	11.31	A19	EL=11	95
1512.50	11.33	A19	EL=11	95
1515.70	11.36	A19	EL=11	95
1519.00	11.39	A19	EL=11	95
1522.30	11.40	A19	EL=11	95
1525.60	11.38	A19	EL=11	95
1528.90	11.37	A19	EL=11	95
1532.10	11.34	A19	EL=11	95
1535.40	11.14	A19 A19	EL=11 EL=11	95 95
1538.70	10.92	A19	EL=11	95
1541.62	10.50	A19	EL=10	95
1542.00	10.44	A19	EL=10	95
1543.90 1681.60	9.98 9.60			
1692.20	9.61	A19	EL=10	95
1705.60	9.60	A19	EL=10	95
1712.30 1816.10	9.61 9.58			
1905.50	9.78	A19	EL=10	95
1916.50	9.80	A19	EL=10	95
2051.50	9.94	A19	EL=10	95
2066.00	9.97	A19 A19		95 95
2118.50	10.03	A19		95
2135.50	10.04	A19		95
2160.50	10.06	A19		95
2185.00	10.09	A19	EL=10	95
2215.50	10.09	A19		95
2297.00	10.18	A19		95
2311.00	10.20	A19	EL=10	95
2364.50	10.23	A19		95
2374.50	10.24	A19	EL=10	95
2477.00	10.34	A19	EL=10	95
2489.50	10.35	A19	EL=10	95
2570.00	10.41	A19	EL=10	95
2580.00	10.42	A19	EL=10	95
2604.50	10.43	A19	EL=10	95
2612.50	10.44	A19	EL=10	95
2638.50	10.46	A19	EL=10	95

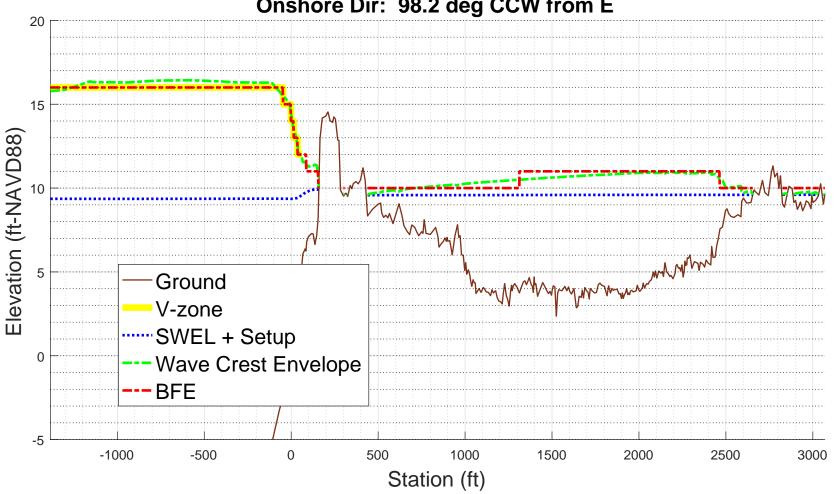
2661.50	10.48		A19	EL=10	95
2670.50	10.48		A19	EL=10	95
2684.50	10.49			EL=10	
2694.78	10.50		A19		95
2720.50	10.51		A19	EL=11	95
2729.00	10.52		A19	EL=11	95
2754.00	10.54		A19	EL=11	95
2764.50	10.55		A19	EL=11	95
2802.00	10.57		A19	EL=11	95
2816.00	10.58		A19	EL=11	95
2843.00	10.60		A19	EL=11	95
2854.00	10.61		A19	EL=11	95
2873.50	10.62		A19	EL=11	95
2887.00	10.63		A19	EL=11	95
2924.50	10.65		A19	EL=11	95
2932.00	10.66		A19	EL=11	95
2987.00	10.69		A19	EL=11	95
2997.00	10.70		A19	EL=11	95
3104.50	10.76		A19	EL=11	95
3116.00	10.77		A19	EL=11	95
3210.50	10.81		A19	EL=11	95
3230.00	10.82		A19	EL=11	95
3352.00	10.89		A19	EL=11	95
3368.50	10.90		A19	EL=11	95
3850.67	10.50		A19	EL=11	95
4039.60	9.60		A19	EL=10	95
4073.90	9.60		A19	EL=10	95
4075.30 4123.10	9.60 9.60				
4129.70	9.61		A19	EL=10	95
4206.70	9.60		A19	EL=10	95
4237.00 4270.40	9.61 9.60				
4314.00	9.72		A19	EL=10	95
4326.50	9.75		A19	EL=10	95
4417.90	9.61		A19	EL=10	95
4438.60	9.60		A19	EL=10	95
4453.90 ZONE	9.61 TERMINATED AT	END			- 0

ZONE TERMINATED AT END OF TRANSECT PART 7 POSTSCRIPT NOTES
START(385457.7677,4805531.4406)
END(385240.2997,4807040.9122)

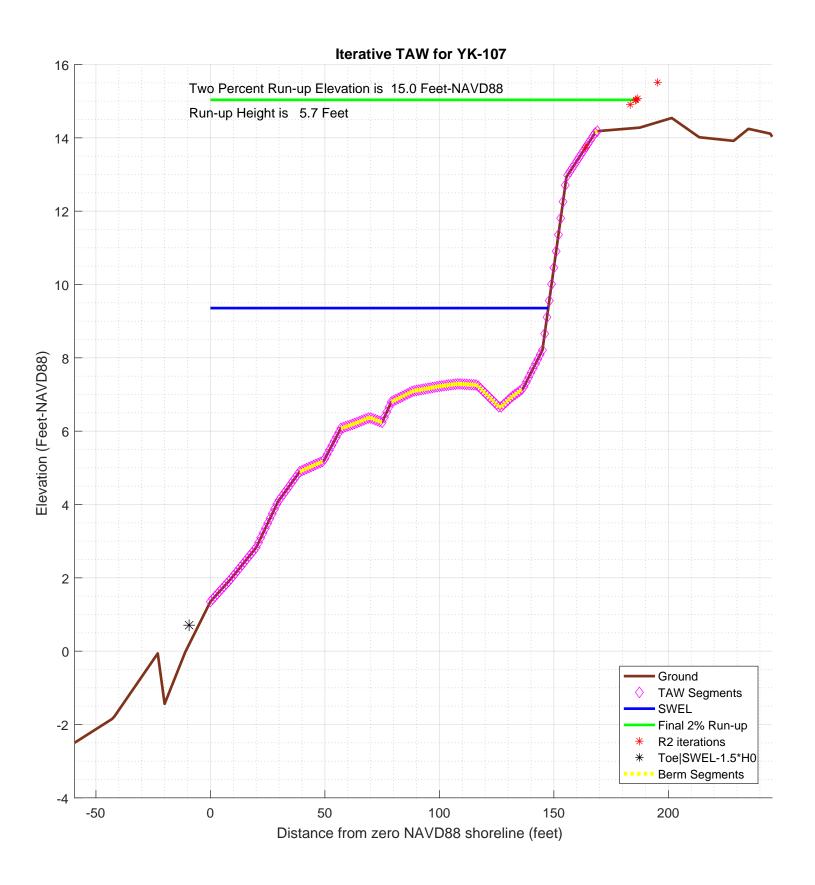
PS# 1 PS# 2

YK-107 100-year WHAFIS Output Zero Station: -70.41517308, 43.39766884

Onshore Dir: 98.2 deg CCW from E



```
PART 4: TAW
Input Paramters:
    TWL- 9.3596 feet
    HS- 5.7654 feet
    PER- 13.2478 seconds
    TOE- x: 0 , z: 1.3517 feet
TOP- x: 168.5 , z: 14.1798 feet
GBERM- 0.62324
    GGROUGH- 0.6
    GBETA-
             1
    GPERM-
              1
RUNNING TAW:
MATLAB DIARY: /4_taw/logfiles/YK-107-DIARY.txt
CHECKING VALIDITY:
TAW method is not valid!
Runup elevation to be calculated using another method
PART 4 COMPLETE_
```



```
% begin recording
diary on
% FEMA appeal for The Town of Kennebunkport, York county, Maine
% TRANSECT ID: YK-107
% calculation by SJH, Ransom Consulting, Inc. 02-Apr-2020
% 100-year wave runup using TAW methodology
% including berm and weighted average with foreshore if necessary
% chk nld 20200220
% This script assumes that the incident wave conditions provided
% as input in the configuration section below are the
% appropriate values located at the end of the foreshore
% or toe of the slope on which the run-up is being calculated
% the script does not attempt to apply a depth limit or any other
\mbox{\ensuremath{\mbox{\$}}} transformation to the incident wave conditions other than
% conversion of the peak wave period to the spectral mean wave
% as recommended in the references below
% references:
Van der Meer, J.W., 2002. Technical Report Wave Run-up and
% Wave Overtopping at Dikes. TAW Technical Advisory Committee on
% Flood Defence, The Netherlands.
% FEMA. 2007, Atlantic Ocean and Gulf of Mexico Coastal Guidelines Update
% CONFIG
% third column is 0 for excluded points
imgname='logfiles/YK-107-runup';
SWEL=9.3596; % 100-yr still water level including wave setup. H0=5.7654; % significant wave height at toe of structure
Tp=13.2478;
               % peak period, 1/fma,
T0=Tp/1.1;
gamma_berm=0.70525; % this may get changed automatically below
gamma_rough=0.6;
gamma_beta=1;
gamma_perm=1;
setupAtToe=-0.0031758;
maxSetup=0.61291;
                     % only used in case of berm/shallow foreshore weighted average
plotTitle='Iterative TAW for YK-107'
plotTitle =
Iterative TAW for YK-107
% END CONFIG
             ______
SWEL=SWEL+setupAtToe
SWEL =
                   9.3564242
SWEL_fore=SWEL+maxSetup
SWEL fore =
                   9.9693342
% FIND WAVELENGTH USING DEEPWATER DISPERSION RELATION
% using English units
L0=32.15/(2*pi)*T0^2
T<sub>1</sub>O =
           742.169776643312
% Find Hb (Munk, 1949)
%Hb=H0/(3.3*(H0/L0)^(1/3))
%Db=-Hb/.78+SWEL; % depth at breaking
% The toe elevation here is only used to determine the average
% structure slope, it is not used to depth limit the wave height.
% Any depth limiting or other modification of the wave height
```

```
% to make it consitent with TAW guidance should be performed
% prior to the input of the significant wave height given above.
Ztoe=SWEL-1.5*H0
Ztoe =
         0.708324200000002
% read the transect
[sta,dep,inc] = textread(fname,'%n%n%n%*[^n]','delimiter',',','headerlines',0);
% remove unselected points
k=find(inc==0);
sta(k)=[];
dep(k)=[];
sta_org=sta; % used for plotting purposes
dep_org=dep;
% initial guess at maximum run-up elevation to estimate slope
Z2=SWEL+1.5*H0
Z2 =
                18.0045242
% determine station at the max runup and -1.5*H0 (i.e. the toe)
top_sta=-999;
toe_sta=-999;
for kk=1:length(sta)-1
    if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))
                                                % here is the intersection of z2 with profile
       top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
                                                    % here is the intersection of Ztoe with profile
   if
       ((Ztoe > dep(kk)) & (Ztoe <= dep(kk+1)))
       toe_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Ztoe)
    end
end
% check to make sure we got them, if not extend the end slopes outward
S=diff(dep)./diff(sta);
if toe_sta==-999
   dy=dep(1)-Ztoe;
   toe_sta=sta(1)-dy/S(1)
end
toe_sta =
         -9.28910224942969
if top_sta==-999
   dy=Z2-dep(end);
   top_sta=sta(end)+dy/S(end)
end
top_sta =
          244.624605765617
% just so the reader can tell the values aren't -999 anymore
top sta
top_sta =
          244.624605765617
toe_sta
toe sta =
         -9.28910224942969
% check for case where the toe of slope is below SWL-1.5*H0 \,
% in this case interpolate setup from the setupAtToe(really setup as first station), and the max setup
% also un-include points seaward of SWL-1.5*HO
if Ztoe > dep(1)
   dd=SWEL_fore-dep;
   k=find(dd<0,1); % k is index of first land point
   staAtSWL=interpl(dep(k-1:k),sta(k-1:k),SWEL_fore);
   dsta=staAtSWL-sta(1);
   dsetup=maxSetup-setupAtToe;
   dsetdsta=dsetup/dsta;
   setup=setupAtToe+dsetdsta*(toe_sta-sta(1));
   sprintf('-!!- Location of SWEL-1.5*HO is %4.1f ft landward of toe of slope', dsta)
   sprintf('-!!- Setup is interpolated between setup at toe of slope and max setup')
```

```
setup is adjusted to %4.2f feet', setup)
   sprintf('-!!-
   SWEL=SWEL-setupAtToe+setup;
   sprintf('-!!-
                        SWEL is adjusted to %4.2f feet', SWEL)
   k=find(dep < SWEL-1.5*H0)
   sta(k)=[];
   dep(k)=[];
else
   sprintf('-!!- The User has selected a starting point that is 4.2f feet above the elevation of SWEL-1.5H0\n', dep(1)
   sprintf('-!!- This may be reasonable for some cases. However the user may want to consider:\n') sprintf('-!!- 1) Selecting a starting point that is at or below %4.2f feet elevation, or\n', Ztoe)
   sprintf('-!!-
                    2) Reducing the incident wave height to a depth limited condition.\n')
end
ans =
-!!- The User has selected a starting point that is 0.64 feet above the elevation of SWEL-1.5H0
ans =
-!!- This may be reasonable for some cases. However the user may want to consider:
ans =
-!!-
       1) Selecting a starting point that is at or below 0.71 feet elevation, or
ans =
-!!-
       2) Reducing the incident wave height to a depth limited condition.
% now iterate converge on a runup elevation
tol=0.01; % convergence criteria
R2del=999;
R2_new=3*H0; %initial guess
R2=R2 new;
iter=0;
R2_all=[];
topStaAll=[];
Berm_Segs=[];
TAW_ALWAYS_VALID=1;
while(abs(R2del) > tol && iter <= 25)
    iter=iter+1;
                    ----- STARTING ITERATION %d -----!',iter)
    % elevation of toe of slope
    Ztoe
    % station of toe slope (relative to 0-NAVD88 shoreline
    toe_sta
    % station of top of slope/extent of 2% run-up
    top_sta
    % elevation of top of slope/extent of 2% run-up
    Z_2
    % incident significant wave height
    НΟ
    % incident spectral peak wave period
    Тp
    % incident spectral mean wave period
    т0
    R2=R2 new
    Z2=R2+SWEL
    % determine slope for this iteration
    top_sta=-999;
    for kk=1:length(sta)-1
       if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))
                                                     \mbox{\ensuremath{\mbox{\$}}} here is the intersection of z2 with profile
           top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
          break;
       end
    end
    if top_sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end)
    % get the length of the slope (not accounting for berm)
    Lslope=top_sta-toe_sta
    % loop over profile segments to determine berm factor
    % re-calculate influence of depth of berm based on this run-up elevation
    % check for berm, berm width, berm height
    berm_width=0;
    rdh_sum=0;
```

```
Berm_Segs=[];
Berm_Heights=[];
for kk=1:length(sta)-1
   ddep=dep(kk+1)-dep(kk);
   dsta=sta(kk+1)-sta(kk);
   s=ddep/dsta;
                       % count it as a berm if slope is flatter than 1:15 (see TAW manual)
      (s < 1/15)
      sprintf ('Berm Factor Calculation: Iteration %d, Profile Segment: %d',iter,kk)
      berm_width=berm_width+dsta; % tally the width of all berm segments
      % compute the rdh for this segment and weight it by the segment length
      dh=SWEL-(dep(kk)+dep(kk+1))/2
      if dh < 0
          chi=R2;
      else
          chi=2* H0;
      end
      if (dh \le R2 \& dh \ge -2*H0)
         rdh=(0.5-0.5*cos(3.14159*dh/chi));
      else
         rdh=1;
      end
      rdh_sum=rdh_sum + rdh * dsta
      Berm_Segs=[Berm_Segs, kk];
      Berm_Heights=[Berm_Heights, (dep(kk)+dep(kk+1))/2];
   if dep(kk) >= Z2 % jump out of loop if we reached limit of run-up for this iteration
      break
   end
end
sprintf ('!----- End Berm Factor Calculation, Iter: %d -----!',iter)
berm_width
rB=berm_width/Lslope
if (berm_width > 0)
  rdh_mean=rdh_sum/berm_width
else
  rdh_mean=1
end
gamma_berm=1- rB * (1-rdh_mean)
if gamma_berm > 1
   gamma_berm=1
end
if gamma_berm < 0.6
   gamma_berm =0.6
end
% Iribarren number
slope=(Z2-Ztoe)/(Lslope-berm_width)
Irb=(slope/(sqrt(H0/L0)))
% runup height
gamma_berm
gamma_perm
gamma_beta
gamma rough
\verb"gamma=gamma_berm*gamma_perm*gamma_beta*gamma_rough"
% check validity
TAW_VALID=1;
if (Irb*gamma_berm < 0.5 | Irb*gamma_berm > 10 )
   sprintf('!!! - - Iribaren number: %6.2f is outside the valid range (0.5-10), TAW NOT VALID - - !!!\n', Irb*gam
else
  sprintf('!!! - - Iribaren number: %6.2f is in the valid range (0.5-10), TAW RECOMMENDED - - !!!\n', Irb*gamma_
end
islope=1/slope;
if (slope < 1/8 | slope > 1)
sprintf('!!! - - slope: 1
                  - slope: 1:%3.1f V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!\n', islope)
   TAW_VALID=0;
else
   sprintf('!!! - - slope: 1:%3.1f V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!\n', islope)
end
if TAW_VALID == 0
   TAW_ALWAYS_VALID=0;
end
if (Irb*gamma berm < 1.8)
  R2_new=gamma*H0*1.77*Irb
else
  R2_new=gamma*H0*(4.3-(1.6/sqrt(Irb)))
end
\$ check to see if we need to evaluate a shallow foreshore if berm_width > 0.25 * L0;
   disp ('!
disp ('!
              Berm_width is greater than 1/4 wave length')
              Runup will be weighted average with foreshore calculation assuming depth limited wave height on ber
   % do the foreshore calculation
   fore_H0=0.78*(SWEL_fore-min(Berm_Heights))
   % get upper slope
   fore_toe_sta=-999;
   fore_toe_dep=-999;
   for kk=length(dep)-1:-1:1
```

```
ddep=dep(kk+1)-dep(kk);
          dsta=sta(kk+1)-sta(kk);
          s=ddep/dsta;
          if s < 1/15
             break
          end
          fore_toe_sta=sta(kk);
          fore_toe_dep=dep(kk);
          upper_slope=(Z2-fore_toe_dep)/(top_sta-fore_toe_sta)
       end
       fore_Irb=upper_slope/(sqrt(fore_H0/L0));
       fore_gamma=gamma_perm*gamma_beta*gamma_rough;
       if (fore_Irb < 1.8)
          fore_R2=fore_gamma*fore_H0*1.77*fore_Irb;
          fore_R2=fore_gamma*fore_H0*(4.3-(1.6/sqrt(fore_Irb)));
       end
       if berm_width >= L0
          R2_new=fore_R2
          disp ('berm is wider than one wavelength, use full shallow foreshore solution');
       else
          w2=(berm_width-0.25*L0)/(0.75*L0)
          R2_new=w2*fore_R2 + w1*R2_new
       end
    end % end berm width check
    % convergence criterion
    R2del=abs(R2-R2_new)
   R2_all(iter)=R2_new;
    % get the new top station (for plot purposes)
    Z2=R2_new+SWEL
    top_sta=-999;
    for kk=1:length(sta)-1
       if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))
                                                % here is the intersection of z2 with profile
          top_sta=interpl(dep(kk:kk+1),sta(kk:kk+1),Z2)
          break;
       end
    end
    if top_sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end);
    end
    topStaAll(iter)=top_sta;
end
ans =
       -----! STARTING ITERATION 1 -----!
Ztoe =
         0.708324200000002
toe_sta =
         -9.28910224942969
top_sta =
          244.624605765617
Z2 =
                18.0045242
H0 =
                    5.7654
Tp =
                   13.2478
T0 =
          12.0434545454545
R2 =
                   17.2962
Z2 =
                26.6526242
top_sta =
          415.735189252295
Lslope =
          425.024291501724
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 40
dh =
                 4.4473502
rdh_sum =
         0.324280978646442
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 41
dh =
                 4.4192287
rdh_sum =
         0.644980637357216
Berm Factor Calculation: Iteration 1, Profile Segment: 42
dh =
                 4.3911072
rdh_sum =
         0.962109501471238
Berm Factor Calculation: Iteration 1, Profile Segment: 43
```

```
dh =
                 4.3629857
rdh_sum =
         1.27567830594121
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 44
dh =
                 4.3348642
rdh_sum =
         1.58569799470345
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 45
dh =
                 4.3067427
rdh_sum =
         1.89217972003547
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 46
dh =
                 4.2786212
rdh_sum =
          2.1951348419013
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 47
                 4.2504997
rdh_sum =
         2.49457492728462
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 48
dh =
                 4.2223782
rdh_sum =
         2.79051174950979
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 49
dh =
                 4.1942567
rdh_sum =
          3.0829572875507
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 58
dh =
                 3.2693722
rdh_sum =
          3.26854164898686
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 59
dh =
                 3.2475002
rdh_sum =
         3.45181489328406
Berm Factor Calculation: Iteration 1, Profile Segment: 60
                 3.2256282
rdh_sum =
         3.63278826754331
Berm Factor Calculation: Iteration 1, Profile Segment: 61
dh =
                 3.2037557
rdh_sum =
         3.81147304834834
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 62
dh =
                 3.1818832
rdh_sum =
         3.98788064626011
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 63
dh =
                 3.1600112
rdh_sum =
         4.16202260436817
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 64
dh =
                 3.1364562
rdh_sum =
         4.33373753040655
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 65
                 3.1112187
rdh_sum =
         4.50286707129962
Berm Factor Calculation: Iteration 1, Profile Segment: 66
```

```
dh =
                 3.0859817
rdh_sum =
         4.66942692112822
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 67
dh =
                 3.0607447
rdh_sum =
         4.83343284408631
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 68
dh =
                 3.0355077
rdh_sum =
         4.99490072511098
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 69
dh =
                 3.0102702
rdh_sum =
         5.15384651932369
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 70
                 2.9973072
rdh_sum =
         5.31150312858367
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 71
dh =
                 3.0088937
rdh_sum =
         5.47031182615509
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 72
dh =
                 3.0327542
rdh_sum =
         5.63150375862059
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 73
dh =
                 3.0566147
rdh_sum =
         5.79509324427916
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 74
dh =
                 3.0804757
rdh_sum =
         5.96109455079449
Berm Factor Calculation: Iteration 1, Profile Segment: 75
                 3.1043362
rdh_sum =
          6.1295217428272
Berm Factor Calculation: Iteration 1, Profile Segment: 80
                 2.5429832
rdh_sum =
         6.24480448001698
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 81
dh =
                 2.5119012
rdh_sum =
         6.35739656631689
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 82
dh =
                 2.4808197
rdh_sum =
         6.46732582636616
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 83
dh =
                 2.4497382
rdh_sum =
         6.57462023225059
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 84
                 2.4186562
rdh_sum =
         6.67930790329641
Berm Factor Calculation: Iteration 1, Profile Segment: 85
```

```
dh =
                 2.3875747
rdh_sum =
         6.78141722962548
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 86
dh =
                 2.3564932
rdh_sum =
         6.88097674409328
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 87
dh =
                 2.3254112
rdh_sum =
          6.97801512207878
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 88
dh =
                 2.2943297
rdh_sum =
          7.0725613008643
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 89
rdh_sum =
         7.16503211071685
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 90
dh =
                 2.2518362
rdh_sum =
          7.2562181282114
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 91
dh =
                 2.2404247
rdh_sum =
          7.34651109955671
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 92
dh =
                 2.2290132
rdh_sum = 7.43591498514927
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 93
dh =
                 2.2176017
rdh_sum =
         7.52443375397985
Berm Factor Calculation: Iteration 1, Profile Segment: 94
                 2.2061902
rdh_sum =
         7.61207138359508
Berm Factor Calculation: Iteration 1, Profile Segment: 95
dh =
                 2.1947782
rdh_sum =
           7.6988318217137
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 96
                 2.1833667
rdh_sum = 7.78471910139933
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 97
dh =
                 2.1719552
rdh_sum =
           7.8697372256357
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 98
dh =
                 2.1605437
rdh_sum =
         7.95389020580813
Berm Factor Calculation: Iteration 1, Profile Segment: 99
                 2.1491322
rdh_sum =
         8.03718206166478
Berm Factor Calculation: Iteration 1, Profile Segment: 100
```

```
dh =
                 2.1377202
rdh_sum =
         8.11961678381213
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 101
dh =
                 2.1279132
rdh_sum =
           8.2013181454926
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 102
dh =
                 2.1197112
rdh_sum =
         8.28240846046287
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 103
dh =
                 2.1115092
rdh_sum =
          8.36288982061794
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 104
rdh_sum =
         8.44276432089374
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 105
dh =
                 2.0951052
rdh_sum =
         8.52203405925664
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 106
dh =
                 2.0869032
rdh_sum =
            8.600701136693
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 107
dh =
                 2.0787012
rdh_sum =
          8.67876765719867
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 108
dh =
                 2.0704992
rdh_sum =
         8.75623572776848
Berm Factor Calculation: Iteration 1, Profile Segment: 109
                 2.0683277
rdh_sum =
         8.83354571035977
Berm Factor Calculation: Iteration 1, Profile Segment: 110
dh =
                 2.0721872
rdh_sum =
         8.91113677165987
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 111
dh =
                 2.0760472
rdh_sum =
         8.98900941523621
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 112
dh =
                 2.0799072
rdh_sum =
         9.06716410796121
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 113
dh =
                 2.0837672
rdh_sum =
           9.1456013163953
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 114
                 2.0876267
rdh_sum =
         9.22432147010061
Berm Factor Calculation: Iteration 1, Profile Segment: 115
```

```
dh =
                 2.0914862
rdh_sum =
          9.3033250348915
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 116
dh =
                 2.0953462
rdh_sum =
         9.38261251307542
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 117
dh =
                 2.1138252
rdh_sum =
         9.46326561177069
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 118
dh =
                 2.1615422
rdh_sum =
         9.54749413122066
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 119
rdh_sum =
         9.63649923617176
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 120
dh =
                 2.2862142
rdh_sum =
         9.73039947182654
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 121
dh =
                 2.3485502
rdh_sum =
         9.82931197146185
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 122
dh =
                 2.4108862
rdh_sum =
          9.9333524226435
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 123
dh =
                 2.4732222
rdh_sum =
          10.042635033858
Berm Factor Calculation: Iteration 1, Profile Segment: 124
                 2.5355582
rdh_sum =
         10.1572725015708
Berm Factor Calculation: Iteration 1, Profile Segment: 125
                 2.5978942
rdh_sum =
         10.2773759777207
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 126
dh =
                 2.6602302
rdh_sum =
           10.40305503766
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 127
dh =
                 2.6922182
rdh_sum =
         10.5316372534521
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 128
dh =
                 2.6635107
rdh_sum =
         10.6576127392301
Berm Factor Calculation: Iteration 1, Profile Segment: 129
                 2.6044557
rdh_sum =
         10.7782979701724
Berm Factor Calculation: Iteration 1, Profile Segment: 130
```

```
dh =
                2.5454007
rdh_sum =
         10.893791140033
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 131
dh =
                2.4863452
rdh_sum =
         11.0041917439506
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 132
dh =
                2.4305707
rdh_sum =
         11.1098753004792
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 133
dh =
                2.3813582
rdh_sum =
         11.2114723594644
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 134
                2.3354267
rdh_sum =
        11.3093199720722
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 135
dh =
                2.2894952
rdh_sum =
         11.4034811159413
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 136
dh =
                2.2435632
rdh_sum =
         11.4940193069266
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 169
dh =
               -4.8006863
rdh_sum =
         11.6723599774653
ans =
!---- End Berm Factor Calculation, Iter: 1 -----!
berm_width =
         0.20234137605674
rdh_mean =
        0.135725116017038
gamma_berm =
        0.825121430683608
slope =
       0.0765263748065912
        0.868256515356538
gamma_berm =
        0.825121430683608
gamma_perm =
gamma_beta =
gamma_rough =
                      0.6
gamma =
        0.495072858410165
ans =
!!! - - Iribaren number: 0.72 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:13.1 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
         4.38651762330388
R2del =
         12.9096823766961
7.2 =
         13.7429418233039
top_sta =
         163.944816826593
ans =
!-----!
Ztoe =
        0.708324200000002
toe_sta =
         -9.28910224942969
top_sta =
         163.944816826593
```

```
Z2 =
         13.7429418233039
H0 =
                    5.7654
Tp =
                  13.2478
T0 =
          12.0434545454545
R2 =
          4.38651762330388
Z_{2} =
          13.7429418233039
top_sta =
          163.944816826593
Lslope =
          173.233919076022
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 40
dh =
                 4.4473502
rdh_sum =
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 41
                 4.4192287
rdh_sum =
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 42
dh =
                 4.3911072
rdh_sum =
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 43
dh =
                 4.3629857
rdh_sum =
         3.31356880446997
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 44
dh =
                 4.3348642
rdh_sum =
         3.62358849323221
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 45
dh =
                 4.3067427
rdh_sum =
         3.93007021856423
Berm Factor Calculation: Iteration 2, Profile Segment: 46
                 4.2786212
rdh_sum =
         4.23302534043006
Berm Factor Calculation: Iteration 2, Profile Segment: 47
                 4.2504997
rdh_sum =
         4.53246542581338
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 48
dh =
                 4.2223782
rdh_sum =
         4.82840224803855
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 49
dh =
                 4.1942567
rdh_sum =
         5.12084778607947
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 58
dh =
                 3.2693722
rdh_sum =
         5.30643214751562
Berm Factor Calculation: Iteration 2, Profile Segment: 59
                 3.2475002
rdh_sum =
         5.48970539181282
Berm Factor Calculation: Iteration 2, Profile Segment: 60
```

```
dh =
                 3.2256282
rdh_sum =
         5.67067876607207
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 61
dh =
                 3.2037557
rdh_sum =
         5.84936354687711
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 62
dh =
                 3.1818832
rdh_sum =
         6.02577114478887
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 63
dh =
                 3.1600112
rdh_sum =
         6.19991310289693
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 64
                 3.1364562
rdh_sum =
         6.37162802893531
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 65
dh =
                 3.1112187
rdh_sum =
         6.54075756982839
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 66
dh =
                 3.0859817
rdh_sum =
         6.70731741965698
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 67
dh =
                 3.0607447
rdh_sum =
         6.87132334261507
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 68
dh =
                 3.0355077
rdh_sum =
         7.03279122363974
Berm Factor Calculation: Iteration 2, Profile Segment: 69
                 3.0102702
rdh_sum =
         7.19173701785245
Berm Factor Calculation: Iteration 2, Profile Segment: 70
                 2.9973072
rdh_sum =
         7.34939362711243
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 71
dh =
                 3.0088937
rdh_sum = 7.50820232468385
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 72
dh =
                 3.0327542
rdh_sum =
         7.66939425714935
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 73
dh =
                 3.0566147
rdh_sum = 7.83298374280792
Berm Factor Calculation: Iteration 2, Profile Segment: 74
                 3.0804757
rdh_sum =
         7.99898504932325
Berm Factor Calculation: Iteration 2, Profile Segment: 75
```

```
dh =
                 3.1043362
rdh_sum =
         8.16741224135596
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 80
dh =
                 2.5429832
rdh_sum =
         8.28269497854575
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 81
dh =
                 2.5119012
rdh_sum =
         8.39528706484565
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 82
dh =
                 2.4808197
rdh_sum =
         8.50521632489492
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 83
                 2.4497382
rdh_sum =
         8.61251073077935
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 84
dh =
                 2.4186562
rdh_sum =
         8.71719840182517
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 85
dh =
                 2.3875747
rdh_sum =
         8.81930772815424
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 86
dh =
                 2.3564932
rdh_sum =
         8.91886724262204
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 87
dh =
                 2.3254112
rdh_sum =
         9.01590562060754
Berm Factor Calculation: Iteration 2, Profile Segment: 88
                 2.2943297
rdh_sum =
         9.11045179939306
Berm Factor Calculation: Iteration 2, Profile Segment: 89
                 2.2681657
rdh_sum =
         9.20292260924562
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 90
dh =
                 2.2518362
rdh_sum =
         9.29410862674016
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 91
dh =
                 2.2404247
rdh_sum =
         9.38440159808547
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 92
dh =
                 2.2290132
rdh_sum =
         9.47380548367804
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 93
                 2.2176017
rdh_sum =
         9.56232425250861
Berm Factor Calculation: Iteration 2, Profile Segment: 94
```

```
dh =
                 2.2061902
rdh_sum =
         9.64996188212385
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 95
dh =
                 2.1947782
rdh_sum =
         9.73672232024246
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 96
dh =
                 2.1833667
rdh_sum =
         9.82260959992809
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 97
dh =
                 2.1719552
rdh_sum =
         9.90762772416446
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 98
                 2.1605437
rdh_sum =
         9.99178070433689
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 99
dh =
                 2.1491322
rdh_sum =
         10.0750725601935
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 100
dh =
                 2.1377202
rdh_sum =
         10.1575072823409
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 101
dh =
                 2.1279132
rdh_sum =
         10.2392086440214
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 102
dh =
                 2.1197112
rdh_sum =
         10.3202989589916
Berm Factor Calculation: Iteration 2, Profile Segment: 103
                 2.1115092
rdh_sum =
         10.4007803191467
Berm Factor Calculation: Iteration 2, Profile Segment: 104
dh =
                 2.1033072
rdh_sum =
         10.4806548194225
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 105
dh =
                 2.0951052
rdh_sum =
         10.5599245577854
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 106
dh =
                 2.0869032
rdh_sum =
         10.6385916352218
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 107
dh =
                 2.0787012
rdh_sum =
         10.7166581557274
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 108
                 2.0704992
rdh_sum =
         10.7941262262972
Berm Factor Calculation: Iteration 2, Profile Segment: 109
```

```
dh =
                 2.0683277
rdh_sum =
         10.8714362088885
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 110
dh =
                 2.0721872
rdh_sum =
         10.9490272701886
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 111
dh =
                 2.0760472
rdh_sum =
          11.026899913765
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 112
dh =
                 2.0799072
rdh_sum =
           11.10505460649
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 113
rdh_sum =
         11.1834918149241
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 114
dh =
                 2.0876267
rdh_sum =
         11.2622119686294
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 115
dh =
                 2.0914862
rdh_sum =
         11.3412155334203
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 116
dh =
                 2.0953462
rdh_sum =
         11.4205030116042
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 117
dh =
                 2.1138252
rdh_sum =
         11.5011561102995
Berm Factor Calculation: Iteration 2, Profile Segment: 118
                 2.1615422
rdh_sum =
         11.5853846297494
Berm Factor Calculation: Iteration 2, Profile Segment: 119
dh =
                 2.2238782
rdh_sum =
         11.6743897347005
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 120
dh =
                 2.2862142
rdh_sum =
         11.7682899703553
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 121
dh =
                 2.3485502
rdh_sum =
         11.8672024699906
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 122
dh =
                 2.4108862
rdh_sum =
         11.9712429211723
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 123
                 2.4732222
rdh_sum =
         12.0805255323868
Berm Factor Calculation: Iteration 2, Profile Segment: 124
```

```
dh =
                 2.5355582
rdh_sum =
         12.1951630000995
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 125
dh =
                 2.5978942
rdh_sum =
         12.3152664762495
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 126
dh =
                 2.6602302
rdh_sum =
         12.4409455361888
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 127
dh =
                 2.6922182
rdh_sum =
         12.5695277519809
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 128
rdh_sum =
         12.6955032377589
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 129
dh =
                 2.6044557
rdh_sum =
         12.8161884687011
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 130
dh =
                 2.5454007
rdh_sum =
         12.9316816385617
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 131
dh =
                 2.4863452
rdh_sum =
         13.0420822424794
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 132
dh =
                 2.4305707
rdh_sum =
          13.147765799008
Berm Factor Calculation: Iteration 2, Profile Segment: 133
                 2.3813582
rdh_sum =
         13.2493628579932
Berm Factor Calculation: Iteration 2, Profile Segment: 134
dh =
                 2.3354267
rdh_sum =
          13.347210470601
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 135
                 2.2894952
rdh_sum =
         13.4413716144701
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 136
dh =
                 2.2435632
rdh_sum =
         13.5319098054553
!---- End Berm Factor Calculation, Iter: 2 -----!
berm_width =
    85
rB =
         0.490666033842359
rdh_mean =
          0.15919893888771
gamma_berm =
         0.587447478093586
gamma_berm =
slope =
         0.147727968561311
```

```
Irb =
         1.67609888130617
gamma_berm =
                       0.6
gamma_perm =
gamma_beta =
gamma_rough =
                       0.6
gamma =
                      0.36
ans =
!!! - - Iribaren number: 1.01 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:6.8 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
          6.15750604840807
R2del =
         1.77098842510419
Z2 =
         15.5139302484081
ans =
    -----: STARTING ITERATION 3 -----!
Ztoe =
        0.708324200000002
toe sta =
         -9.28910224942969
top_sta =
         195.345922091136
Z2 =
         15.5139302484081
H0 =
                   5.7654
Tp =
                  13.2478
T0 =
         12.0434545454545
R2 =
         6.15750604840807
Z_{2} =
         15.5139302484081
top_sta =
         195.345922091136
Lslope =
         204.635024340565
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 40
dh =
                4.4473502
rdh_sum =
        0.324280978646442
Berm Factor Calculation: Iteration 3, Profile Segment: 41
                4.4192287
rdh_sum =
        0.644980637357216
Berm Factor Calculation: Iteration 3, Profile Segment: 42
dh =
                4.3911072
rdh_sum =
        0.962109501471238
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 43
dh =
                4.3629857
rdh_sum =
         1.27567830594121
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 44
dh =
                4.3348642
rdh_sum =
         1.58569799470345
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 45
dh =
                4.3067427
rdh_sum =
         1.89217972003547
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 46
dh =
                 4.2786212
rdh_sum =
          2.1951348419013
Berm Factor Calculation: Iteration 3, Profile Segment: 47
```

```
dh =
                 4.2504997
rdh_sum =
         2.49457492728462
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 48
dh =
                 4.2223782
rdh_sum =
         2.79051174950979
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 49
dh =
                 4.1942567
rdh_sum =
          3.0829572875507
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 58
dh =
                 3.2693722
rdh_sum =
         3.26854164898686
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 59
rdh_sum =
         3.45181489328406
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 60
dh =
                 3.2256282
rdh_sum =
         3.63278826754331
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 61
dh =
                 3.2037557
rdh_sum =
         3.81147304834834
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 62
dh =
                 3.1818832
rdh_sum =
         3.98788064626011
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 63
dh =
                 3.1600112
rdh_sum =
         4.16202260436817
Berm Factor Calculation: Iteration 3, Profile Segment: 64
                 3.1364562
rdh_sum =
         4.33373753040655
Berm Factor Calculation: Iteration 3, Profile Segment: 65
                 3.1112187
rdh_sum =
         4.50286707129962
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 66
dh =
                 3.0859817
rdh_sum =
         4.66942692112822
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 67
dh =
                 3.0607447
rdh_sum =
         4.83343284408631
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 68
dh =
                 3.0355077
rdh_sum =
         4.99490072511098
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 69
                 3.0102702
rdh_sum =
         5.15384651932369
Berm Factor Calculation: Iteration 3, Profile Segment: 70
```

```
dh =
                 2.9973072
rdh_sum =
         5.31150312858367
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 71
dh =
                 3.0088937
rdh_sum =
         5.47031182615509
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 72
dh =
                 3.0327542
rdh_sum =
         5.63150375862059
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 73
dh =
                 3.0566147
rdh_sum =
         5.79509324427916
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 74
                 3.0804757
rdh_sum =
         5.96109455079449
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 75
dh =
                 3.1043362
rdh_sum =
          6.1295217428272
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 80
dh =
                 2.5429832
rdh_sum =
         6.24480448001698
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 81
dh =
                 2.5119012
rdh_sum =
         6.35739656631689
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 82
dh =
                 2.4808197
rdh_sum =
         6.46732582636616
Berm Factor Calculation: Iteration 3, Profile Segment: 83
                 2.4497382
rdh_sum =
         6.57462023225059
Berm Factor Calculation: Iteration 3, Profile Segment: 84
                 2.4186562
rdh_sum =
         6.67930790329641
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 85
dh =
                 2.3875747
rdh_sum =
         6.78141722962548
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 86
dh =
                 2.3564932
rdh_sum =
         6.88097674409328
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 87
dh =
                 2.3254112
rdh_sum =
         6.97801512207878
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 88
                 2.2943297
rdh_sum =
          7.0725613008643
Berm Factor Calculation: Iteration 3, Profile Segment: 89
```

```
dh =
                 2.2681657
rdh_sum = 7.16503211071685
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 90
dh =
                 2,2518362
rdh_sum =
          7.2562181282114
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 91
dh =
                 2.2404247
rdh_sum =
         7.34651109955671
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 92
dh =
                 2.2290132
rdh_sum =
         7.43591498514927
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 93
                 2.2176017
rdh_sum =
         7.52443375397985
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 94
dh =
                 2.2061902
rdh_sum =
         7.61207138359508
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 95
dh =
                 2.1947782
rdh_sum =
           7.6988318217137
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 96
dh =
                 2.1833667
rdh_sum =
         7.78471910139933
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 97
dh =
                 2.1719552
rdh_sum =
          7.8697372256357
Berm Factor Calculation: Iteration 3, Profile Segment: 98
                 2.1605437
rdh_sum =
         7.95389020580813
Berm Factor Calculation: Iteration 3, Profile Segment: 99
dh =
                 2.1491322
rdh_sum =
         8.03718206166478
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 100
dh =
                 2.1377202
rdh_sum =
         8.11961678381213
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 101
dh =
                 2.1279132
rdh_sum =
           8.2013181454926
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 102
dh =
                 2.1197112
rdh_sum =
         8.28240846046287
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 103
                 2.1115092
rdh_sum =
         8.36288982061794
Berm Factor Calculation: Iteration 3, Profile Segment: 104
```

```
dh =
                 2.1033072
rdh_sum =
         8.44276432089374
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 105
dh =
                 2.0951052
rdh_sum =
         8.52203405925664
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 106
dh =
                 2.0869032
rdh_sum =
            8.600701136693
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 107
dh =
                 2.0787012
rdh_sum =
         8.67876765719867
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 108
                 2.0704992
rdh_sum =
         8.75623572776848
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 109
dh =
                 2.0683277
rdh_sum =
         8.83354571035977
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 110
dh =
                 2.0721872
rdh_sum =
         8.91113677165987
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 111
dh =
                 2.0760472
rdh_sum =
          8.98900941523621
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 112
dh =
                 2.0799072
rdh_sum =
         9.06716410796121
Berm Factor Calculation: Iteration 3, Profile Segment: 113
                 2.0837672
rdh_sum =
           9.1456013163953
Berm Factor Calculation: Iteration 3, Profile Segment: 114
                 2.0876267
rdh_sum =
         9.22432147010061
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 115
dh =
                 2.0914862
rdh_sum =
          9.3033250348915
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 116
dh =
                 2.0953462
rdh_sum =
         9.38261251307542
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 117
dh =
                 2.1138252
rdh_sum =
         9.46326561177069
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 118
                 2.1615422
rdh_sum =
         9.54749413122066
Berm Factor Calculation: Iteration 3, Profile Segment: 119
```

```
dh =
                 2.2238782
rdh_sum =
         9.63649923617176
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 120
dh =
                 2.2862142
rdh_sum =
         9.73039947182654
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 121
dh =
                 2.3485502
rdh_sum =
         9.82931197146185
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 122
dh =
                 2.4108862
rdh_sum =
          9.9333524226435
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 123
rdh_sum =
          10.042635033858
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 124
dh =
                 2.5355582
rdh_sum =
         10.1572725015708
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 125
dh =
                 2.5978942
rdh_sum =
         10.2773759777207
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 126
dh =
                 2.6602302
rdh_sum =
           10.40305503766
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 127
dh =
                 2.6922182
rdh_sum =
         10.5316372534521
Berm Factor Calculation: Iteration 3, Profile Segment: 128
                 2.6635107
rdh_sum =
         10.6576127392301
Berm Factor Calculation: Iteration 3, Profile Segment: 129
                 2.6044557
rdh_sum =
         10.7782979701724
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 130
dh =
                 2.5454007
rdh_sum =
          10.893791140033
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 131
dh =
                 2.4863452
rdh_sum =
         11.0041917439506
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 132
dh =
                 2.4305707
rdh_sum =
         11.1098753004792
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 133
                 2.3813582
rdh_sum =
         11.2114723594644
Berm Factor Calculation: Iteration 3, Profile Segment: 134
```

```
dh =
                 2.3354267
rdh_sum =
         11.3093199720722
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 135
dh =
                 2.2894952
rdh_sum =
         11.4034811159413
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 136
dh =
                 2.2435632
rdh_sum =
         11.4940193069266
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 169
dh =
                -4.8006863
rdh_sum =
          12.378922429044
ans =
!----- End Berm Factor Calculation, Iter: 3 -----!
berm_width =
         0.420260413764136
rdh_mean =
         0.143940958477256
gamma_berm =
         0.640232273003122
slope =
         0.124799620775612
Irb =
         1.41595736275642
gamma_berm =
         0.640232273003122
gamma_perm =
gamma_beta =
gamma_rough =
                       0.6
gamma =
         0.384139363801873
ans =
!!! - - Iribaren number: 0.91 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:8.0 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
          5.55062259206032
R2del =
         0.606883456347744
Z2 =
         14.9070467920603
ans =
      -----! STARTING ITERATION 4 -----!
Ztoe =
         0.708324200000002
toe_sta =
         -9.28910224942969
top_sta =
         183.338176768571
Z2 =
         14.9070467920603
H0 =
                    5.7654
Tp =
                   13.2478
T0 =
         12.0434545454545
R2 =
          5.55062259206032
Z_{2} =
          14.9070467920603
top_sta =
          183.338176768571
Lslope =
         192.627279018001
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 40
dh =
                 4.4473502
rdh_sum =
         0.324280978646442
Berm Factor Calculation: Iteration 4, Profile Segment: 41
                 4.4192287
```

```
rdh_sum =
        0.644980637357216
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 42
dh =
                 4.3911072
rdh_sum =
        0.962109501471238
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 43
dh =
                 4.3629857
rdh_sum =
         1.27567830594121
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 44
dh =
                 4.3348642
rdh_sum =
         1.58569799470345
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 45
                 4.3067427
rdh_sum =
         1.89217972003547
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 46
dh =
                 4.2786212
rdh_sum =
          2.1951348419013
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 47
dh =
                 4.2504997
rdh_sum =
         2.49457492728462
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 48
dh =
                 4.2223782
rdh_sum =
         2.79051174950979
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 49
dh =
                 4.1942567
rdh_sum =
          3.0829572875507
Berm Factor Calculation: Iteration 4, Profile Segment: 58
                 3.2693722
rdh_sum =
         3.26854164898686
Berm Factor Calculation: Iteration 4, Profile Segment: 59
                 3.2475002
rdh_sum =
         3.45181489328406
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 60
dh =
                 3.2256282
rdh_sum =
         3.63278826754331
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 61
dh =
                 3.2037557
rdh_sum =
         3.81147304834834
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 62
dh =
                 3.1818832
rdh_sum =
         3.98788064626011
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 63
dh =
                 3.1600112
rdh_sum =
         4.16202260436817
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 64
                 3.1364562
```

```
rdh_sum =
         4.33373753040655
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 65
dh =
                 3.1112187
rdh_sum =
         4.50286707129962
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 66
dh =
                 3.0859817
rdh_sum =
         4.66942692112822
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 67
dh =
                 3.0607447
rdh_sum =
         4.83343284408631
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 68
                 3.0355077
rdh_sum =
         4.99490072511098
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 69
dh =
                 3.0102702
rdh_sum =
         5.15384651932369
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 70
dh =
                 2.9973072
rdh_sum =
         5.31150312858367
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 71
dh =
                 3.0088937
rdh_sum =
         5.47031182615509
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 72
dh =
                 3.0327542
rdh_sum =
         5.63150375862059
Berm Factor Calculation: Iteration 4, Profile Segment: 73
                 3.0566147
rdh_sum =
         5.79509324427916
Berm Factor Calculation: Iteration 4, Profile Segment: 74
                 3.0804757
rdh_sum =
         5.96109455079449
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 75
dh =
                 3.1043362
rdh_sum =
          6.1295217428272
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 80
dh =
                 2.5429832
rdh_sum =
         6.24480448001698
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 81
dh =
                 2.5119012
rdh_sum =
         6.35739656631689
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 82
dh =
                 2.4808197
rdh_sum =
         6.46732582636616
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 83
                 2.4497382
```

```
rdh_sum =
         6.57462023225059
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 84
dh =
                 2.4186562
rdh_sum =
         6.67930790329641
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 85
dh =
                 2.3875747
rdh_sum =
         6.78141722962548
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 86
dh =
                 2.3564932
rdh_sum =
         6.88097674409328
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 87
                 2.3254112
rdh_sum =
         6.97801512207878
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 88
dh =
                 2.2943297
rdh_sum =
           7.0725613008643
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 89
dh =
                 2.2681657
rdh_sum =
         7.16503211071685
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 90
dh =
                 2.2518362
rdh_sum =
           7.2562181282114
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 91
dh =
                 2.2404247
rdh_sum =
         7.34651109955671
Berm Factor Calculation: Iteration 4, Profile Segment: 92
                 2.2290132
rdh_sum =
         7.43591498514927
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 93
                 2.2176017
rdh_sum =
         7.52443375397985
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 94
dh =
                 2.2061902
rdh_sum =
         7.61207138359508
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 95
dh =
                 2.1947782
rdh_sum =
          7.6988318217137
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 96
dh =
                 2.1833667
rdh_sum =
         7.78471910139933
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 97
dh =
                 2.1719552
rdh_sum =
           7.8697372256357
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 98
                 2.1605437
```

```
rdh_sum =
         7.95389020580813
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 99
dh =
                 2.1491322
rdh_sum =
         8.03718206166478
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 100
dh =
                 2.1377202
rdh_sum =
         8.11961678381213
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 101
dh =
                 2.1279132
rdh_sum =
          8.2013181454926
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 102
                 2.1197112
rdh_sum =
         8.28240846046287
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 103
dh =
                 2.1115092
rdh_sum =
         8.36288982061794
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 104
dh =
                 2.1033072
rdh_sum =
         8.44276432089374
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 105
dh =
                 2.0951052
rdh_sum =
         8.52203405925664
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 106
dh =
                 2.0869032
rdh_sum =
           8.600701136693
Berm Factor Calculation: Iteration 4, Profile Segment: 107
                 2.0787012
rdh_sum =
         8.67876765719867
Berm Factor Calculation: Iteration 4, Profile Segment: 108
                 2.0704992
rdh_sum =
         8.75623572776848
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 109
dh =
                 2.0683277
rdh_sum =
         8.83354571035977
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 110
dh =
                 2.0721872
rdh_sum =
         8.91113677165987
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 111
dh =
                 2.0760472
rdh_sum =
         8.98900941523621
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 112
dh =
                 2.0799072
rdh_sum =
         9.06716410796121
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 113
                 2.0837672
```

```
rdh_sum =
          9.1456013163953
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 114
dh =
                 2.0876267
rdh_sum =
         9.22432147010061
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 115
dh =
                 2.0914862
rdh_sum =
           9.3033250348915
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 116
dh =
                 2.0953462
rdh_sum =
         9.38261251307542
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 117
                 2.1138252
rdh_sum =
         9.46326561177069
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 118
dh =
                 2.1615422
rdh_sum =
         9.54749413122066
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 119
dh =
                 2.2238782
rdh_sum =
         9.63649923617176
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 120
dh =
                 2.2862142
rdh_sum =
         9.73039947182654
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 121
dh =
                 2.3485502
rdh_sum =
         9.82931197146185
Berm Factor Calculation: Iteration 4, Profile Segment: 122
                 2.4108862
rdh_sum =
           9.9333524226435
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 123
                 2.4732222
rdh_sum =
          10.042635033858
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 124
dh =
                 2.5355582
rdh_sum =
         10.1572725015708
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 125
dh =
                 2.5978942
rdh_sum =
         10.2773759777207
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 126
dh =
                 2.6602302
rdh_sum =
            10.40305503766
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 127
dh =
                 2.6922182
rdh_sum =
         10.5316372534521
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 128
                 2.6635107
```

```
rdh_sum =
         10.6576127392301
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 129
dh =
                 2.6044557
rdh_sum =
         10.7782979701724
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 130
dh =
                 2.5454007
rdh_sum =
          10.893791140033
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 131
dh =
                 2.4863452
rdh_sum =
        11.0041917439506
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 132
                 2.4305707
rdh_sum =
         11.1098753004792
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 133
dh =
                 2.3813582
rdh_sum =
         11.2114723594644
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 134
dh =
                 2.3354267
rdh_sum =
         11.3093199720722
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 135
dh =
                 2.2894952
rdh_sum =
         11.4034811159413
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 136
dh =
                 2.2435632
rdh_sum =
         11.4940193069266
Berm Factor Calculation: Iteration 4, Profile Segment: 169
                -4.8006863
rdh_sum =
          12.449650311268
ans =
!----- End Berm Factor Calculation, Iter: 4 -----!
berm_width =
        0.446458053285192
rdh_mean =
         0.144763375712419
gamma_berm =
         0.618172721622367
slope =
         0.13316219566724
Irb =
         1.51083785530769
gamma\_berm =
         0.618172721622367
gamma_perm =
    1
gamma_beta =
gamma_rough =
                       0.6
gamma =
         0.37090363297342
!!! - - Iribaren number: 0.93 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:7.5 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
          5.71849380898391
R2del =
         0.167871216923583
Z2 =
         15.0749180089839
```

```
ans =
      -----! STARTING ITERATION 5
Ztoe =
        0.708324200000002
toe_sta =
         -9.28910224942969
top_sta =
         186.659662630022
Z_{2} =
         15.0749180089839
H0 =
                   5.7654
Tp =
                  13.2478
T0 =
         12.0434545454545
R2 =
         5.71849380898391
Z2 =
         15.0749180089839
top_sta =
          186.659662630022
Lslope =
         195.948764879451
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 40
                4.4473502
rdh_sum =
        0.324280978646442
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 41
                4.4192287
rdh_sum =
        0.644980637357216
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 42
dh =
                4.3911072
rdh_sum =
        0.962109501471238
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 43
dh =
                4.3629857
rdh_sum =
         1.27567830594121
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 44
                 4.3348642
rdh_sum =
         1.58569799470345
Berm Factor Calculation: Iteration 5, Profile Segment: 45
                 4.3067427
rdh_sum =
         1.89217972003547
Berm Factor Calculation: Iteration 5, Profile Segment: 46
dh =
                4.2786212
rdh_sum =
          2.1951348419013
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 47
dh =
                4.2504997
rdh_sum =
         2.49457492728462
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 48
dh =
                4.2223782
rdh_sum =
         2.79051174950979
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 49
dh =
                4.1942567
rdh_sum =
          3.0829572875507
Berm Factor Calculation: Iteration 5, Profile Segment: 58
                3.2693722
rdh_sum =
         3.26854164898686
```

```
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 59
dh =
                 3.2475002
rdh_sum =
         3.45181489328406
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 60
dh =
                 3.2256282
rdh_sum =
        3.63278826754331
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 61
dh =
                 3.2037557
rdh_sum =
        3.81147304834834
Berm Factor Calculation: Iteration 5, Profile Segment: 62
dh =
                 3.1818832
rdh_sum =
        3.98788064626011
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 63
                 3.1600112
rdh_sum =
         4.16202260436817
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 64
                 3.1364562
rdh_sum =
         4.33373753040655
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 65
dh =
                 3.1112187
rdh_sum =
         4.50286707129962
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 66
dh =
                 3.0859817
rdh_sum =
         4.66942692112822
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 67
                 3.0607447
rdh_sum =
         4.83343284408631
Berm Factor Calculation: Iteration 5, Profile Segment: 68
                 3.0355077
rdh_sum =
         4.99490072511098
Berm Factor Calculation: Iteration 5, Profile Segment: 69
dh =
                3.0102702
rdh_sum =
        5.15384651932369
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 70
dh =
                 2.9973072
rdh_sum =
         5.31150312858367
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 71
dh =
                 3.0088937
rdh_sum =
        5.47031182615509
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 72
dh =
                 3.0327542
rdh_sum =
         5.63150375862059
Berm Factor Calculation: Iteration 5, Profile Segment: 73
                 3.0566147
rdh_sum =
         5.79509324427916
```

```
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 74
dh =
                 3.0804757
rdh_sum =
         5.96109455079449
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 75
dh =
                 3.1043362
rdh_sum =
          6.1295217428272
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 80
dh =
                 2.5429832
rdh_sum =
         6.24480448001698
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 81
dh =
                 2.5119012
rdh_sum =
         6.35739656631689
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 82
dh =
                 2.4808197
rdh_sum =
         6.46732582636616
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 83
                 2.4497382
rdh_sum =
         6.57462023225059
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 84
dh =
                 2.4186562
rdh_sum =
         6.67930790329641
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 85
dh =
                 2.3875747
rdh_sum =
         6.78141722962548
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 86
                 2.3564932
rdh_sum =
         6.88097674409328
Berm Factor Calculation: Iteration 5, Profile Segment: 87
                 2.3254112
rdh_sum =
         6.97801512207878
Berm Factor Calculation: Iteration 5, Profile Segment: 88
dh =
                2.2943297
rdh_sum =
         7.0725613008643
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 89
dh =
                 2.2681657
rdh_sum =
         7.16503211071685
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 90
dh =
                 2.2518362
rdh_sum =
          7.2562181282114
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 91
dh =
                 2.2404247
rdh_sum =
         7.34651109955671
Berm Factor Calculation: Iteration 5, Profile Segment: 92
                 2.2290132
rdh_sum =
         7.43591498514927
```

```
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 93
dh =
                 2.2176017
rdh_sum =
         7.52443375397985
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 94
dh =
                 2.2061902
rdh_sum =
         7.61207138359508
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 95
dh =
                 2.1947782
rdh_sum =
          7.6988318217137
Berm Factor Calculation: Iteration 5, Profile Segment: 96
dh =
                 2.1833667
rdh_sum =
         7.78471910139933
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 97
dh =
                 2.1719552
rdh_sum =
          7.8697372256357
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 98
                 2.1605437
rdh_sum =
         7.95389020580813
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 99
dh =
                 2.1491322
rdh_sum =
         8.03718206166478
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 100
dh =
                 2.1377202
rdh_sum =
         8.11961678381213
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 101
                 2.1279132
rdh_sum =
          8.2013181454926
Berm Factor Calculation: Iteration 5, Profile Segment: 102
                 2.1197112
rdh_sum =
         8.28240846046287
Berm Factor Calculation: Iteration 5, Profile Segment: 103
dh =
                 2.1115092
rdh_sum =
         8.36288982061794
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 104
dh =
                 2.1033072
rdh_sum =
         8.44276432089374
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 105
dh =
                 2.0951052
rdh_sum =
         8.52203405925664
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 106
dh =
                 2.0869032
rdh_sum =
            8.600701136693
Berm Factor Calculation: Iteration 5, Profile Segment: 107
                 2.0787012
rdh_sum =
          8.67876765719867
```

```
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 108
dh =
                 2.0704992
rdh_sum =
         8.75623572776848
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 109
dh =
                 2.0683277
rdh_sum =
         8.83354571035977
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 110
dh =
                 2.0721872
rdh_sum =
         8.91113677165987
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 111
dh =
                 2.0760472
rdh_sum =
         8.98900941523621
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 112
                 2.0799072
rdh_sum =
         9.06716410796121
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 113
                 2.0837672
rdh_sum =
          9.1456013163953
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 114
dh =
                 2.0876267
rdh_sum =
         9.22432147010061
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 115
dh =
                 2.0914862
rdh_sum =
          9.3033250348915
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 116
                 2.0953462
rdh_sum =
         9.38261251307542
Berm Factor Calculation: Iteration 5, Profile Segment: 117
                 2.1138252
rdh_sum =
         9.46326561177069
Berm Factor Calculation: Iteration 5, Profile Segment: 118
dh =
                 2.1615422
rdh_sum =
         9.54749413122066
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 119
dh =
                 2.2238782
rdh_sum =
         9.63649923617176
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 120
dh =
                 2.2862142
rdh_sum =
         9.73039947182654
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 121
dh =
                 2.3485502
rdh_sum =
         9.82931197146185
Berm Factor Calculation: Iteration 5, Profile Segment: 122
                 2.4108862
rdh_sum =
           9.9333524226435
```

```
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 123
dh =
                 2.4732222
rdh_sum =
          10.042635033858
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 124
dh =
                 2.5355582
rdh_sum =
         10.1572725015708
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 125
dh =
                 2.5978942
rdh_sum =
         10.2773759777207
Berm Factor Calculation: Iteration 5, Profile Segment: 126
dh =
                 2.6602302
rdh_sum =
           10.40305503766
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 127
                 2.6922182
rdh_sum =
         10.5316372534521
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 128
                 2.6635107
rdh_sum =
         10.6576127392301
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 129
dh =
                 2.6044557
rdh_sum =
         10.7782979701724
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 130
dh =
                 2.5454007
rdh_sum =
          10.893791140033
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 131
                 2.4863452
rdh_sum =
         11.0041917439506
Berm Factor Calculation: Iteration 5, Profile Segment: 132
                 2.4305707
rdh_sum =
         11.1098753004792
Berm Factor Calculation: Iteration 5, Profile Segment: 133
dh =
                 2.3813582
rdh_sum =
        11.2114723594644
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 134
dh =
                 2.3354267
rdh_sum =
         11.3093199720722
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 135
dh =
                 2.2894952
rdh_sum =
         11.4034811159413
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 136
dh =
                 2.2435632
rdh_sum =
         11.4940193069266
Berm Factor Calculation: Iteration 5, Profile Segment: 169
               -4.8006863
rdh_sum =
          12.431794626244
```

```
!----- End Berm Factor Calculation, Iter: 5 -----!
berm_width =
   86
rB =
         0.438890237725702
rdh_mean =
        0.144555751467954
gamma_berm =
        0.624553870400686
slope =
        0.130666259186591
Irb =
         1.48251934268095
        0.624553870400686
gamma_perm =
gamma_rough =
                       0.6
gamma =
        0.374732322240412
ans =
!!! - - Iribaren number: 0.93 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:7.7 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2 \text{ new} =
           5.669232040686
R2del =
       0.0492617682979093
Z2 =
          15.025656240686
ans =
    -----! STARTING ITERATION 6 -----!
7toe =
        0.708324200000002
toe_sta =
        -9.28910224942969
top_sta =
         185.684973401516
7.2 =
          15.025656240686
H0 =
                   5.7654
Tp =
                  13.2478
T0 =
         12.0434545454545
R2 =
           5.669232040686
Z2 =
          15.025656240686
top_sta =
         185.684973401516
Lslope =
         194.974075650946
Berm Factor Calculation: Iteration 6, Profile Segment: 40
                4.4473502
rdh_sum =
        0.324280978646442
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 41
dh =
                4.4192287
rdh_sum =
        0.644980637357216
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 42
dh =
                4.3911072
rdh_sum =
        0.962109501471238
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 43
dh =
                4.3629857
rdh_sum =
         1.27567830594121
Berm Factor Calculation: Iteration 6, Profile Segment: 44
                 4.3348642
rdh_sum =
         1.58569799470345
Berm Factor Calculation: Iteration 6, Profile Segment: 45
```

```
dh =
                 4.3067427
rdh_sum =
         1.89217972003547
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 46
dh =
                 4.2786212
rdh_sum =
          2.1951348419013
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 47
dh =
                 4.2504997
rdh_sum =
         2.49457492728462
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 48
dh =
                 4.2223782
rdh_sum =
         2.79051174950979
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 49
                 4.1942567
rdh_sum =
          3.0829572875507
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 58
dh =
                 3.2693722
rdh_sum =
         3.26854164898686
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 59
dh =
                 3.2475002
rdh_sum =
         3.45181489328406
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 60
dh =
                 3.2256282
rdh_sum =
          3.63278826754331
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 61
dh =
                 3.2037557
rdh_sum =
         3.81147304834834
Berm Factor Calculation: Iteration 6, Profile Segment: 62
                 3.1818832
rdh_sum =
         3.98788064626011
Berm Factor Calculation: Iteration 6, Profile Segment: 63
dh =
                 3.1600112
rdh_sum =
         4.16202260436817
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 64
dh =
                 3.1364562
rdh_sum =
         4.33373753040655
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 65
dh =
                 3.1112187
rdh_sum =
         4.50286707129962
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 66
dh =
                 3.0859817
rdh_sum =
         4.66942692112822
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 67
                 3.0607447
rdh_sum =
         4.83343284408631
Berm Factor Calculation: Iteration 6, Profile Segment: 68
```

```
dh =
                 3.0355077
rdh_sum =
         4.99490072511098
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 69
dh =
                 3.0102702
rdh_sum =
         5.15384651932369
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 70
dh =
                 2.9973072
rdh_sum =
         5.31150312858367
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 71
dh =
                 3.0088937
rdh_sum =
         5.47031182615509
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 72
                 3.0327542
rdh_sum =
         5.63150375862059
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 73
dh =
                 3.0566147
rdh_sum =
         5.79509324427916
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 74
dh =
                 3.0804757
rdh_sum =
         5.96109455079449
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 75
dh =
                 3.1043362
rdh_sum =
          6.1295217428272
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 80
dh =
                 2.5429832
rdh_sum =
         6.24480448001698
Berm Factor Calculation: Iteration 6, Profile Segment: 81
                 2.5119012
rdh_sum =
         6.35739656631689
Berm Factor Calculation: Iteration 6, Profile Segment: 82
                 2.4808197
rdh_sum =
         6.46732582636616
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 83
dh =
                 2.4497382
rdh_sum =
         6.57462023225059
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 84
dh =
                 2.4186562
rdh_sum =
         6.67930790329641
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 85
dh =
                 2.3875747
rdh_sum =
         6.78141722962548
Berm Factor Calculation: Iteration 6, Profile Segment: 86
                 2.3564932
rdh_sum =
         6.88097674409328
Berm Factor Calculation: Iteration 6, Profile Segment: 87
```

```
dh =
                 2.3254112
rdh_sum =
         6.97801512207878
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 88
dh =
                 2.2943297
rdh_sum =
          7.0725613008643
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 89
dh =
                 2.2681657
rdh_sum =
         7.16503211071685
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 90
dh =
                 2.2518362
rdh_sum =
          7.2562181282114
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 91
                 2.2404247
rdh_sum =
         7.34651109955671
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 92
dh =
                 2.2290132
rdh_sum =
         7.43591498514927
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 93
dh =
                 2.2176017
rdh_sum =
          7.52443375397985
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 94
dh =
                 2.2061902
rdh_sum = 7.61207138359508
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 95
dh =
                 2.1947782
rdh_sum =
          7.6988318217137
Berm Factor Calculation: Iteration 6, Profile Segment: 96
                 2.1833667
rdh_sum =
         7.78471910139933
Berm Factor Calculation: Iteration 6, Profile Segment: 97
dh =
                 2.1719552
rdh_sum =
           7.8697372256357
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 98
dh =
                 2.1605437
rdh_sum = 7.95389020580813
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 99
dh =
                 2.1491322
rdh_sum =
         8.03718206166478
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 100
dh =
                 2.1377202
rdh_sum =
         8.11961678381213
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 101
dh =
                 2.1279132
rdh_sum =
           8.2013181454926
Berm Factor Calculation: Iteration 6, Profile Segment: 102
```

```
dh =
                 2.1197112
rdh_sum =
         8.28240846046287
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 103
dh =
                 2.1115092
rdh_sum =
         8.36288982061794
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 104
dh =
                 2.1033072
rdh_sum =
         8.44276432089374
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 105
dh =
                 2.0951052
rdh_sum =
         8.52203405925664
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 106
                 2.0869032
rdh_sum =
            8.600701136693
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 107
dh =
                 2.0787012
rdh_sum =
         8.67876765719867
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 108
dh =
                 2.0704992
rdh_sum =
         8.75623572776848
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 109
dh =
                 2.0683277
rdh_sum =
          8.83354571035977
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 110
dh =
                 2.0721872
rdh_sum =
         8.91113677165987
Berm Factor Calculation: Iteration 6, Profile Segment: 111
                 2.0760472
rdh_sum =
         8.98900941523621
Berm Factor Calculation: Iteration 6, Profile Segment: 112
                 2.0799072
rdh_sum =
         9.06716410796121
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 113
dh =
                 2.0837672
rdh_sum =
           9.1456013163953
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 114
dh =
                 2.0876267
rdh_sum =
         9.22432147010061
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 115
dh =
                 2.0914862
rdh_sum =
           9.3033250348915
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 116
                 2.0953462
rdh_sum =
         9.38261251307542
Berm Factor Calculation: Iteration 6, Profile Segment: 117
```

```
dh =
                 2.1138252
rdh_sum =
         9.46326561177069
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 118
dh =
                 2.1615422
rdh_sum =
         9.54749413122066
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 119
dh =
                 2.2238782
rdh_sum =
         9.63649923617176
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 120
dh =
                 2.2862142
rdh_sum =
         9.73039947182654
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 121
rdh_sum =
         9.82931197146185
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 122
dh =
                 2.4108862
rdh_sum =
          9.9333524226435
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 123
dh =
                 2.4732222
rdh_sum =
          10.042635033858
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 124
dh =
                 2.5355582
rdh_sum =
         10.1572725015708
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 125
dh =
                 2.5978942
rdh_sum =
         10.2773759777207
Berm Factor Calculation: Iteration 6, Profile Segment: 126
                 2.6602302
rdh_sum =
           10.40305503766
Berm Factor Calculation: Iteration 6, Profile Segment: 127
                 2.6922182
rdh_sum =
         10.5316372534521
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 128
dh =
                 2.6635107
rdh_sum =
         10.6576127392301
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 129
dh =
                 2.6044557
rdh_sum =
         10.7782979701724
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 130
dh =
                 2.5454007
rdh_sum =
          10.893791140033
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 131
                 2.4863452
rdh_sum =
         11.0041917439506
Berm Factor Calculation: Iteration 6, Profile Segment: 132
```

```
dh =
                2.4305707
rdh_sum =
         11.1098753004792
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 133
dh =
                 2.3813582
rdh_sum =
         11.2114723594644
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 134
dh =
                2.3354267
rdh_sum =
         11.3093199720722
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 135
dh =
                 2.2894952
rdh_sum =
         11.4034811159413
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 136
rdh_sum =
         11.4940193069266
ans =
Berm Factor Calculation: Iteration 6, Profile Segment: 169
dh =
               -4.8006863
rdh_sum =
         12.4372150827059
ans =
!----- End Berm Factor Calculation, Iter: 6 -----!
berm_width =
   86
rB =
        0.441084281142907
rdh_mean =
        0.144618780031464
gamma_berm =
        0.622704789487036
slope =
        0.131382917956981
Irb =
         1.49065044321003
gamma_berm =
        0.622704789487036
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
        0.373622873692222
ans =
!!! - - Iribaren number: 0.93 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:7.6 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         5.68344916884426
R2del =
        0.014217128158263
Z2 =
         15.0398733688443
ans =
!----- STARTING ITERATION 7 -----!
Ztoe =
        0.708324200000002
toe_sta =
         -9.28910224942969
top_sta =
         185.966272310486
Z_{2} =
          15.0398733688443
H0 =
                   5.7654
Tp =
                  13.2478
T0 =
         12.0434545454545
R2 =
          5.68344916884426
Z2 =
          15.0398733688443
top_sta =
          185.966272310486
```

```
Lslope =
         195.255374559916
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 40
dh =
                 4.4473502
rdh_sum =
        0.324280978646442
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 41
dh =
                 4.4192287
rdh_sum =
        0.644980637357216
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 42
dh =
                 4.3911072
rdh_sum =
        0.962109501471238
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 43
                 4.3629857
rdh_sum =
         1.27567830594121
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 44
dh =
                 4.3348642
rdh_sum =
         1.58569799470345
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 45
dh =
                 4.3067427
rdh_sum =
         1.89217972003547
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 46
dh =
                 4.2786212
rdh_sum =
           2.1951348419013
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 47
dh =
                 4.2504997
rdh_sum =
         2.49457492728462
Berm Factor Calculation: Iteration 7, Profile Segment: 48
                 4.2223782
rdh_sum =
         2.79051174950979
Berm Factor Calculation: Iteration 7, Profile Segment: 49
                 4.1942567
rdh_sum =
          3.0829572875507
Berm Factor Calculation: Iteration 7, Profile Segment: 58
dh =
                 3.2693722
rdh_sum =
         3.26854164898686
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 59
dh =
                 3.2475002
rdh_sum =
         3.45181489328406
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 60
dh =
                 3.2256282
rdh_sum =
         3.63278826754331
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 61
dh =
                 3.2037557
rdh_sum =
         3.81147304834834
Berm Factor Calculation: Iteration 7, Profile Segment: 62
                 3.1818832
```

```
rdh_sum =
         3.98788064626011
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 63
dh =
                 3.1600112
rdh_sum =
         4.16202260436817
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 64
dh =
                 3.1364562
rdh_sum =
         4.33373753040655
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 65
dh =
                 3.1112187
rdh_sum =
         4.50286707129962
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 66
                 3.0859817
rdh_sum =
         4.66942692112822
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 67
dh =
                 3.0607447
rdh_sum =
         4.83343284408631
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 68
dh =
                 3.0355077
rdh_sum =
         4.99490072511098
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 69
dh =
                 3.0102702
rdh_sum =
         5.15384651932369
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 70
dh =
                 2.9973072
rdh_sum =
         5.31150312858367
Berm Factor Calculation: Iteration 7, Profile Segment: 71
                 3.0088937
rdh_sum =
         5.47031182615509
Berm Factor Calculation: Iteration 7, Profile Segment: 72
                 3.0327542
rdh_sum =
         5.63150375862059
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 73
dh =
                 3.0566147
rdh_sum =
         5.79509324427916
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 74
dh =
                 3.0804757
rdh_sum =
         5.96109455079449
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 75
dh =
                 3.1043362
rdh_sum =
          6.1295217428272
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 80
dh =
                 2.5429832
rdh_sum =
          6.24480448001698
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 81
                 2.5119012
```

```
rdh_sum =
         6.35739656631689
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 82
dh =
                 2.4808197
rdh_sum =
         6.46732582636616
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 83
dh =
                 2.4497382
rdh_sum =
         6.57462023225059
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 84
dh =
                 2.4186562
rdh_sum =
         6.67930790329641
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 85
                 2.3875747
rdh_sum =
         6.78141722962548
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 86
dh =
                 2.3564932
rdh_sum =
         6.88097674409328
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 87
dh =
                 2.3254112
rdh_sum =
         6.97801512207878
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 88
dh =
                 2.2943297
rdh_sum =
          7.0725613008643
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 89
dh =
                 2.2681657
rdh_sum =
         7.16503211071685
Berm Factor Calculation: Iteration 7, Profile Segment: 90
                 2.2518362
rdh_sum =
           7.2562181282114
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 91
                 2.2404247
rdh_sum =
         7.34651109955671
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 92
dh =
                 2.2290132
rdh_sum =
         7.43591498514927
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 93
dh =
                 2.2176017
rdh_sum =
         7.52443375397985
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 94
dh =
                 2.2061902
rdh_sum =
         7.61207138359508
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 95
dh =
                 2.1947782
rdh_sum =
           7.6988318217137
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 96
                 2.1833667
```

```
rdh_sum =
         7.78471910139933
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 97
dh =
                 2.1719552
rdh_sum =
           7.8697372256357
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 98
dh =
                 2.1605437
rdh_sum =
         7.95389020580813
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 99
dh =
                 2.1491322
rdh_sum =
         8.03718206166478
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 100
                 2.1377202
rdh_sum =
         8.11961678381213
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 101
dh =
                 2.1279132
rdh_sum =
           8.2013181454926
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 102
dh =
                 2.1197112
rdh_sum =
          8.28240846046287
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 103
dh =
                 2.1115092
rdh_sum =
         8.36288982061794
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 104
dh =
                 2.1033072
rdh_sum =
         8.44276432089374
Berm Factor Calculation: Iteration 7, Profile Segment: 105
                 2.0951052
rdh_sum =
         8.52203405925664
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 106
                 2.0869032
rdh_sum =
            8.600701136693
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 107
dh =
                 2.0787012
rdh_sum =
         8.67876765719867
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 108
dh =
                 2.0704992
rdh_sum =
         8.75623572776848
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 109
dh =
                 2.0683277
rdh_sum =
         8.83354571035977
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 110
dh =
                 2.0721872
rdh_sum =
          8.91113677165987
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 111
                 2.0760472
```

```
rdh_sum =
         8.98900941523621
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 112
dh =
                 2.0799072
rdh_sum =
         9.06716410796121
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 113
dh =
                 2.0837672
rdh_sum =
           9.1456013163953
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 114
dh =
                 2.0876267
rdh_sum =
         9.22432147010061
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 115
                 2.0914862
rdh_sum =
           9.3033250348915
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 116
dh =
                 2.0953462
rdh_sum =
         9.38261251307542
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 117
dh =
                 2.1138252
rdh_sum =
          9.46326561177069
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 118
dh =
                 2.1615422
rdh_sum =
         9.54749413122066
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 119
dh =
                 2.2238782
rdh_sum =
         9.63649923617176
Berm Factor Calculation: Iteration 7, Profile Segment: 120
                 2.2862142
rdh_sum =
         9.73039947182654
Berm Factor Calculation: Iteration 7, Profile Segment: 121
                 2.3485502
rdh_sum =
         9.82931197146185
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 122
dh =
                 2.4108862
rdh_sum =
           9.9333524226435
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 123
dh =
                 2.4732222
rdh_sum =
          10.042635033858
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 124
dh =
                 2.5355582
rdh_sum =
         10.1572725015708
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 125
dh =
                 2.5978942
rdh_sum =
         10.2773759777207
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 126
                 2.6602302
```

```
rdh_sum =
           10.40305503766
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 127
dh =
                 2.6922182
rdh_sum =
         10.5316372534521
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 128
dh =
                 2.6635107
rdh_sum =
         10.6576127392301
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 129
dh =
                 2.6044557
rdh_sum =
        10.7782979701724
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 130
                 2.5454007
rdh_sum =
          10.893791140033
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 131
dh =
                 2.4863452
rdh_sum =
         11.0041917439506
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 132
dh =
                 2.4305707
rdh_sum =
         11.1098753004792
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 133
dh =
                 2.3813582
rdh_sum =
         11.2114723594644
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 134
dh =
                 2.3354267
rdh_sum =
         11.3093199720722
Berm Factor Calculation: Iteration 7, Profile Segment: 135
                 2.2894952
rdh_sum =
         11.4034811159413
Berm Factor Calculation: Iteration 7, Profile Segment: 136
                 2.2435632
rdh_sum =
         11.4940193069266
Berm Factor Calculation: Iteration 7, Profile Segment: 169
dh =
               -4.8006863
rdh_sum =
         12.4356649294839
!----- End Berm Factor Calculation, Iter: 7 -----!
berm_width =
   86
rB =
         0.44044882346432
rdh_mean =
        0.144600754993998
gamma_berm =
        0.623240408944839
slope =
        0.131174774939651
Irb =
        1.48828888444837
gamma_berm =
        0.623240408944839
gamma_perm =
gamma_beta =
gamma_rough =
```

```
PART 5: RUNUP2
        for transect: YK-107
Station locations shifted by: -10.79 feet from their
original location to set the shoreline to
elevation 0 for RUNUP2 input
              _RUNUP2 INPUT CONVERSIONS_
        for transect: YK-107
Incident significant wave height: 5.74 feet
Peak wave period: 13.21 seconds
Mean wave height: 3.59 feet
Local Depth below SWEL: 22.69 feet
Mean wave height deshoaled using Hunt approximation for
celerity assuming constant wave energy flux.
 References: R.G. Dean and R.A. Dalrymple. 2000. Water
             Wave Mechanics for Engineers and Scientists. World
              Scientific Publishing Company, River Edge New Jersy
             USACE (1985), Direct Methods for Calculating Wavelength, CETN-1-17
             US Army Engineer Waterways Experiment Station Coastel Engineering
             Research Center, Vicksburg, MS
             also see Coastal Engineering Manual Part II-3
             for discussion of shoaling coefficient
    Depth, D = 22.69
    Period, T = 11.23
    Waveheight, H = 3.59
Deep water wavelength, L0 (ft)
    L0 = g*T*T/twopi
    L0 = 32.17*11.23*11.23/6.28 = 645.48
Deep water wave celerity, C0 (ft/s)
    C0 = L0/T
    C0 = 645.48/11.23 = 57.49
Angular frequency, sigma (rad/s)
    sigma = twopi/T
    sigma = 6.28/11.23 = 0.56
Hunts (1979) approximation for Celerity C1H (ft/s) at Depth D (ft)
    y = sigma.*sigma.*D./g
    y = 0.56*0.56*22.69/32.17 = 0.22
    \texttt{C1H} = \texttt{sqrt}( \texttt{g.*D.}/(\texttt{y+1.}/(\texttt{1} + \texttt{0.6522.*y} + \texttt{0.4622.*y.^2} + \texttt{0.0864.*y.^4} + \texttt{0.0675.*y.^5})) \ )
    C1H = 26.03
Shoaling Coefficient KsH
    KsH = sqrt(C0/C1H)
    KsH = sqrt(57.49/26.03) = 1.49
Deepwater Wave Height HO_H (ft)
    H0_H = H/KsH
    H0_H = 3.59/1.49 = 2.42
Deepwater mean wave height: 2.42 feet
              END RUNUP2 CONVERSIONS
              RUNUP2 RESULTS
        for transect: YK-107
RUNUP2 SWEL:
9.40
```

9.40 9.40 9.40

```
9.40
9.40
9.40
9.40
RUNUP2 deepwater mean wave heights:
2.30
2.30
2.30
2.42
2.42
2.42
2.54
2.54
2.54
RUNUP2 mean wave periods:
10.67
11.23
11.79
10.67
11.23
11.79
10.67
11.23
11.79
RUNUP2 runup above SWEL:
0.98
1.15
1.27
1.11
1.22
1.32
1.17
1.26
1.37
RUNUP2 Mean runup height above SWEL: 1.21 feet
RUNUP2 2-percent runup height above SWEL: 2.65 feet
RUNUP2 2-percent runup elevation: 12.05 feet-NAVD88
RUNUP2 Messages:
No Messages
             __END RUNUP2 RESULTS_
               __ACES BEACH RUNUP_
Incident significant wave height: 5.74 feet
Significant wave height is mean wave height divided by 0.626
Reference: D.2.8.1.2.1 Atlanic and Gulf of Mexico G&S Feb. 2007
Deepwater significant wave height: 3.86 feet
Peak wave period: 13.21 seconds
Average beach Slope: 1:56.82 (H:V)
ACES IRREGULAR WAVE RUNUP ON BEACHES
# Reference:
# Leenknecht, David A., Andre Szuwaiski, and Ann Sherlock. 1992.
# "Automated Coastal Engineering System Technical Reference",
# Coastal Engineering Research Center, Department of the Army
```

9.40

Waterways Experiments Station, Corps of Eniggneers, 3909 Halls # Ferry Road, Vicksburg, Mississippi 39180-6199.

INPUTS:

Acceleration Due to Gravity, g=32.174 Deepwater Significant Wave height, Hs=3.86 Wave Period, T=13.21 Beach Slope, S=0.018

EQUATIONS:

Runup, R = $Hs * a * Irb^b$ Iribarren, Irb = S/sqrt(Hs/L0)Wavelength, L0 = $g * T^2 / 2 / pi$

COEFFICIENTS:

(Mase, H. 1989, "Random Wave Runup Height on Gentle Slopes," j. Waterway, Port, Coastal and Ocean Engineering Division, ASCE, Vol 115, No. 5, pp 649-661.)

RESULTS:

RUNUP = [3.2, 2.8, 2.6, 2.1, 1.4]

ACES RUNUP CALCULATED USING 'Aces_Beach_Runup.m'

ACES Beach 2-percent runup height above SWEL: 2.82 feet

ACES Beach 2-percent runup elevation: 12.22 feet-NAVD88

ACES BEACH RUNUP is valid

END ACES BEACH RESULTS_____

PART 5 COMPLETE____

FEMA
RUNUP2 transect: YK-107

11.0

-13.34 -1384.2 0.6
-12.62 -1300.2 0.6
-8.04 -1134.2 0.6
-7.29 -938.2 0.6
-6.03 -318.2 0.6
-5.58 -189.2 0.6
-5.42 -115.2 0.6
-1.85 -32.2 0.6
-0.06 -12.2 0.6
-0.03 -0.2 0.6
1.35 10.8 0.6
2.83 30.8 0.6
4.90 49.8 0.6
6.08 67.8 0.6
7.09 99.3 0.6
7.29 147.3 0.6
8.21 155.8 0.6
12.93 166.3 0.6
14.18 179.3 0.6
8.21 155.8 0.6
12.93 166.3 0.6
14.18 179.3 0.6
9.4 2.30 10.67
9.4 2.30 11.23
9.4 2.42 11.23
9.4 2.42 11.79
9.4 2.42 11.79

sjh job 2

CROSS SECTION PROFILE

	LENGTH	ELEV.	SLOPE	ROUGHNESS	
1	-138.4	-13.3	.00	20.60	
2	-130.0	-12.6			
3	-1134.0	-8.0	-220.18	20.60	
4	-938.2	-7.3	261.07	.60	
5	-462.2	-7.3	FLAT	.60	
6	-318.2		114.29	.60	
7	-189.2	-5.6	286.67	.60	
			462.50	.60	
8	-115.2	-5.4	23.25	.60	
9	-32.2	-1.8	11.17	.60	
10	-12.2	1	400.00	.60	
11	2	.0	7.97	.60	
12	10.8	1.4			
13	30.8	2.8	13.51	.60	
14	49.8	4.9	9.18	.60	
15	67.8	6.1	15.25	.60	
16	99.3	7.1	31.19	.60	
			240.00	.60	
17	147.3	7.3	9.24	.60	
18	155.8	8.2	2.22	.60	
19	166.3	12.9	10.40	.60	
20	179.3	14.2	0		
	L	AST SLOPE	11.00	LAST ROUGHNESS	.60

CLIENT- FEMA ** WAVE RUNUP-VERSION 2.0 ** ENGINEERED BY sjh JOB job 2 PROJECT-RUNUP2 transect: YK-107 RUN 1 PAGE 2

OUTPUT TABLE

INPUT PARAMETERS RUNUP RESULTS

WATER LEVEL ABOVE DATUM (FT.)	DEEP WATER WAVE HEIGHT (FT.)	WAVE PERIOD (SEC.)	BREAKING SLOPE NUMBER	RUNUP SLOPE NUMBER	RUNUP ABOVE WATER LEVEL (FT.)	BREAKER DEPTH (FT.)
9.40	2.30	10.67	11	18	.98	5.53
9.40	2.30	11.23	11	18	1.15	5.69
9.40	2.30	11.79	11	18	1.27	5.85
9.40	2.42	10.67	11	18	1.11	5.74
9.40	2.42	11.23	11	18	1.22	5.91
9.40	2.42	11.79	11	18	1.32	6.07
9.40	2.54	10.67	11	18	1.17	5.95
9.40	2.54	11.23	11	18	1.26	6.12
9.40	2.54	11.79	11	18	1.37	6.28

