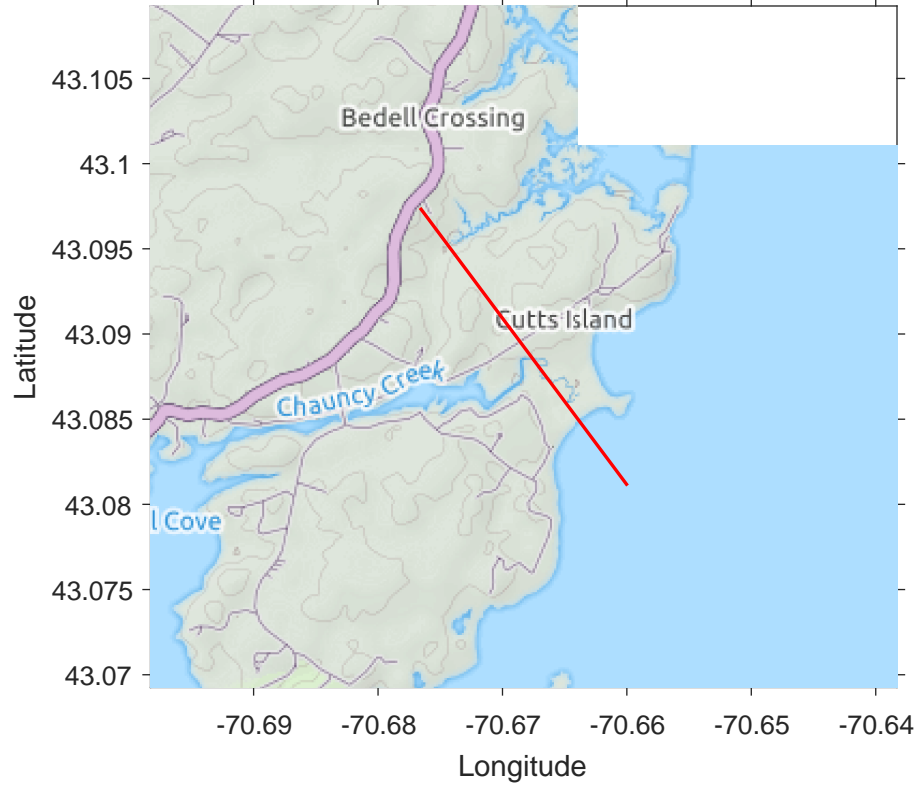
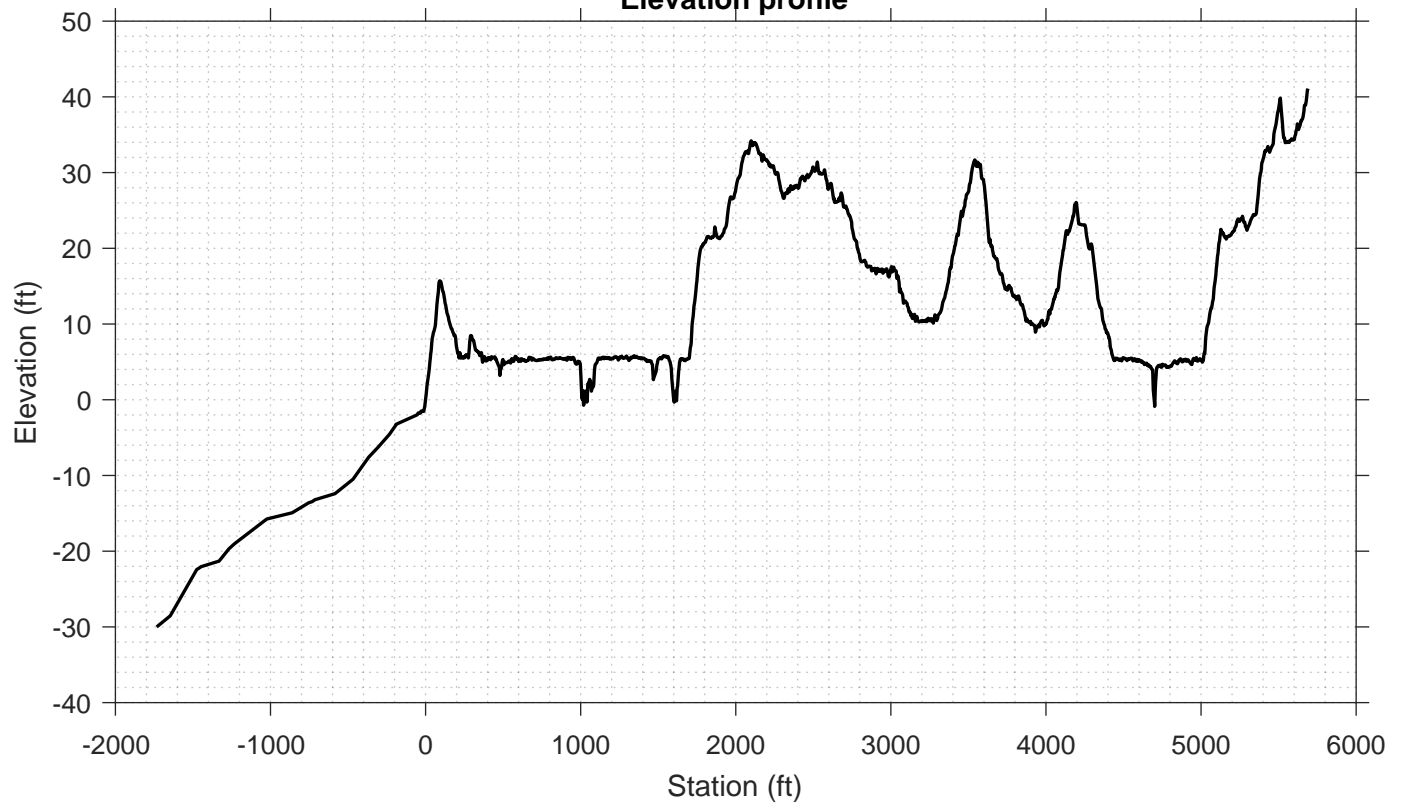


Transect Number: YK-15



Elevation profile



DATA LOG FOR TRANSECT ID: YK-15

PART 1: USER INPUT

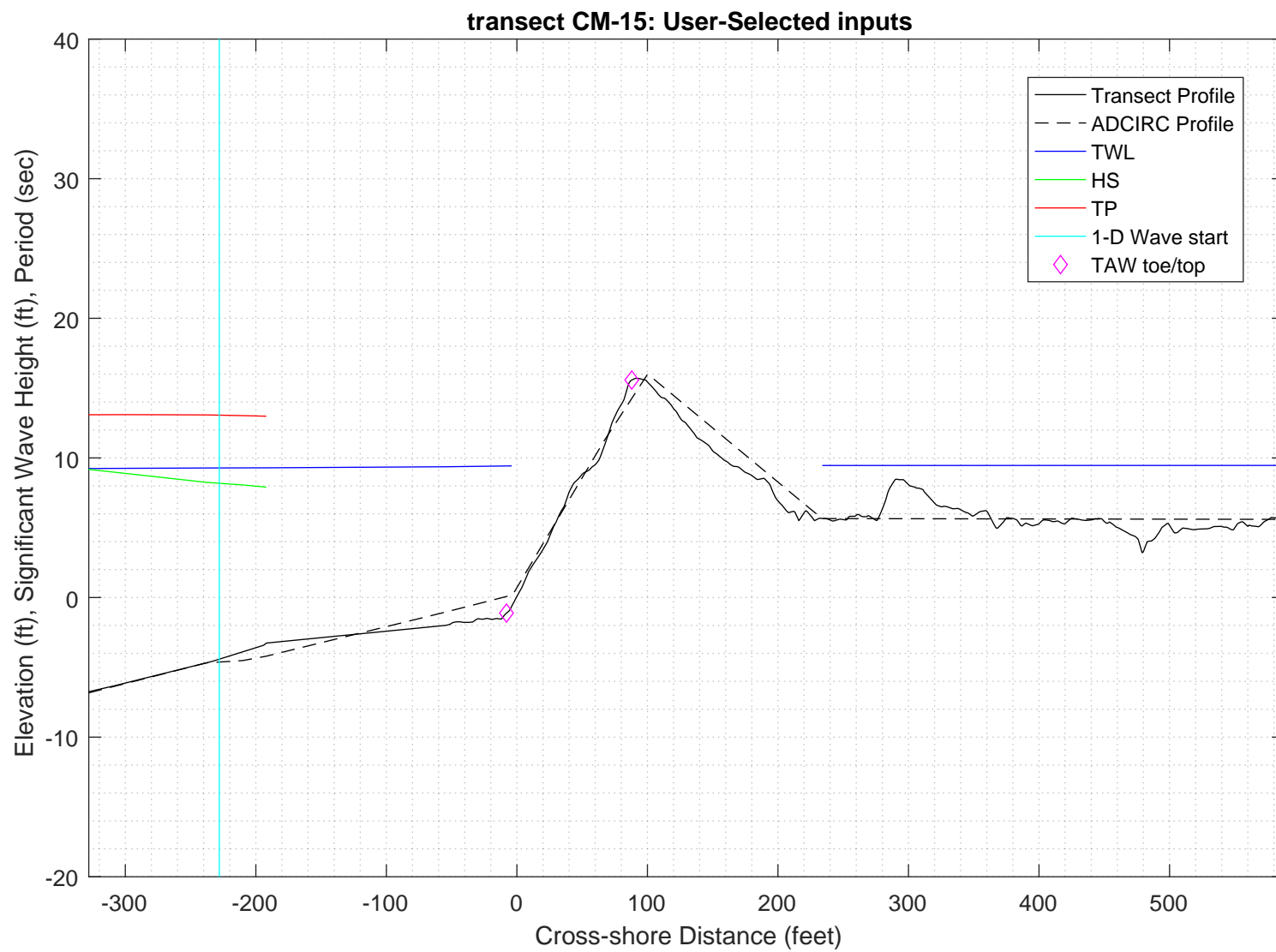
SWAN 1-D / WHAFIS input

station: -228 ft
LON: -70.6633 deg E
LAT: 43.0844 deg N
Bottom ELEV: -4.4141 ft-NAVD88
TWL: 9.2819 ft-NAVD88
HS: 8.1833 ft
TP: 13.0622 sec
Wave Direction bin: 135 deg CCW from East (90 deg sector)
Transect Direction: 135.6539 deg CCW from East

TAW/RUNUP input

toe sta: -8 ft
toe elev: -1.1131 ft-NAVD88
top sta: 88 ft
top elev: 15.5799 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-15zmeters_xmeters.grd
swan file name: 2_swan/swanfiles/YK-15.swn
swan output name: 2_swan/swanfiles/YK-15.dat

Boundary Conditions:

TWL- 2.8291 meters
HS- 2.4943 meters
PER- 13.0622 seconds

Batch File: 2_swan/swanfiles/runswan.dat

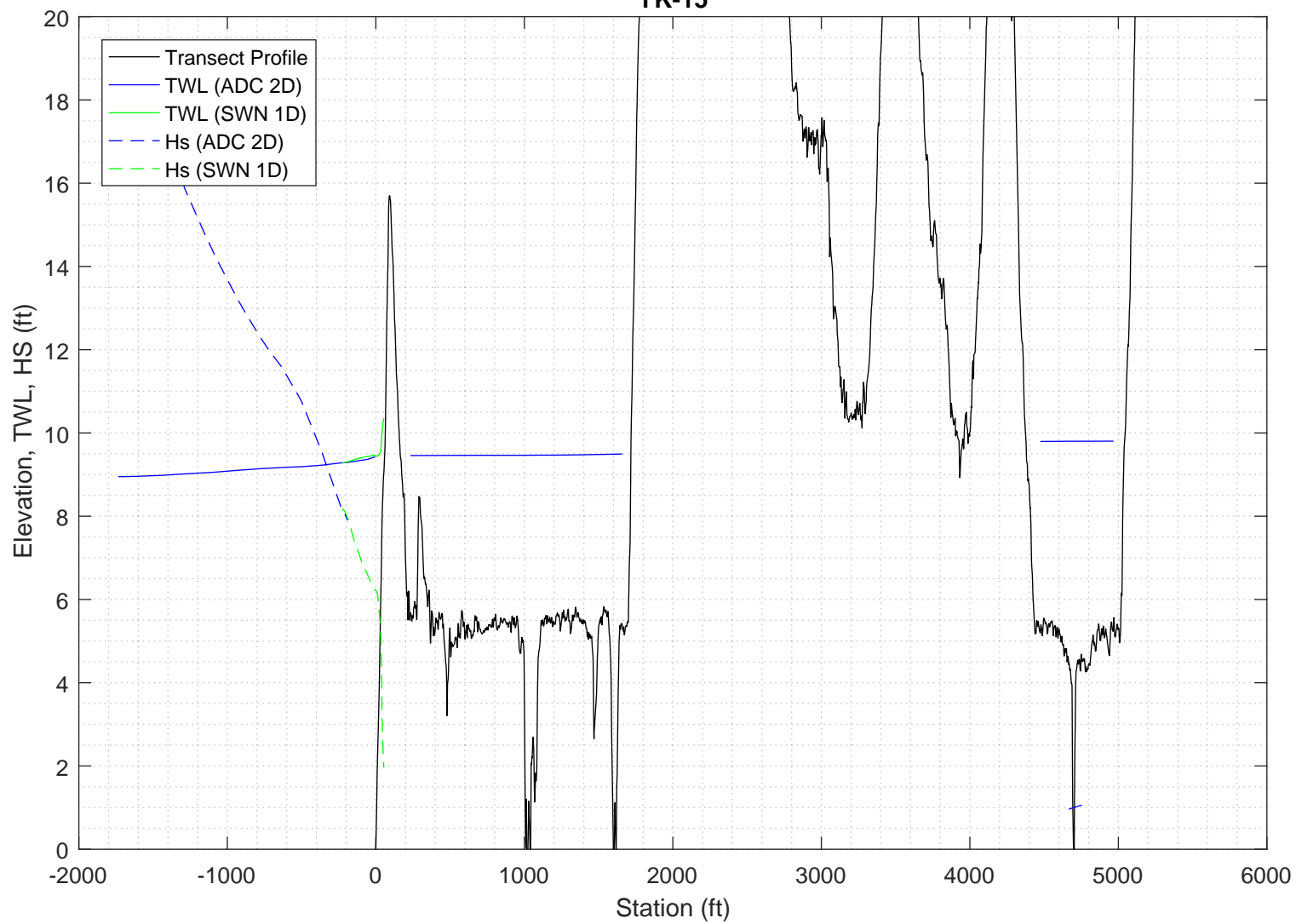
SWAN maximum additional wave setup: 1.0731 feet

SWAN output at toe:

SETUP- 0.18011 feet
HS- 6.2414 feet
PER- 12.7769 seconds

PART 2 COMPLETE

2-D ADCIRC+SWAN and SWAN 1-D results, Transect:
YK-15



Execution started at 20200206.151504

```

-----
                        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]

CGRID REGULAR 0 0 0 86 0. 86 0 &
CIRCLE 36 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 86 0 1 1

!READinp BOTtom [fac] 'fname1' [idla] [nhedf] [FREE|FOrmat[form]|UNFormatted]

READ BOTTOM -1. '../gridfiles/YK-15zmeters_xmeters.grd' 1 0 FREE

!-----

! -- WIND [vel] [dir]

WIND 25.1 0

! -- 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 2.4943 13.0622 0 2

!-- BOUNdnest1 - optional for boundary from parent run

!-- BOUNdnest2

!-- BOUNdnest3

!-- INITial -- usest to specify initial values

!

!----- P H Y S I C S -----

!-- GEN1 [cf10] [cf20] [cf30] [cf40] [edmlpm] [cdrag] [umin] [cfpm]

!-- GEN2 [cf10] [cf20] [cf30] [cf40] [cf50] [cf60] [edmlpm] [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.      0.73

!-- 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      0

!

! ----- 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      86 86      0

!TABLE 'sname' < HEADER|NOHEADER|INDEXed > 'fname' <output parameters> (output time)

Table 'curve'   HEADER 'YK-15.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      87 MYC      1
                   : MCGRD     88
                   : MSC       31 MDC      36
                   : MTC        1
                   : NSTATC     0 ITERMX   50
Propagation flags   : ITFRE     1 IREFR     1
Source term flags   : IBOT      1 ISURF     1
                   : IWCAP      1 IWIND     3
                   : ITRIAD     1 IQUAD     2
                   : IVEG       0 ITURBV    0

```

```

      : IMUD      0
Spatial step      : DX      0.1000E+01 DY      0.1000E+01
Spectral bin      : df/f    0.1157E+00 DDIR    0.1000E+02
Physical constants : GRAV    0.9810E+01 RHO     0.1025E+04
Wind input        : WSPEED  0.2510E+02 DIR     0.0000E+00
Tail parameters   : E(f)    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
Drying/flooding   : LEVEL   0.0000E+00 DEPMIN  0.1000E-01
The Cartesian convention for wind and wave directions is used
Scheme for geographic propagation is SORDUP
Scheme geogr. space : PROPSC      2 ICMAX      7
Scheme spectral space: CSS      0.5000E+00 CDD      0.5000E+00
Current is off
Quadruplets       : IQUAD      2
                  : LAMBDA  0.2500E+00 CNL4     0.3000E+08
                  : CSH1    0.5500E+01 CSH2     0.8330E+00
                  : CSH3   -0.1250E+01
Maximum Ursell nr for Snl4 : 0.1000E+02
Triads             : ITRIAD      1 TRFAC     0.8000E+00
                  : CUTFR    0.2500E+01 URCRI    0.2000E+00
Minimum Ursell nr for Snl3 : 0.1000E-01
JONSWAP ('73)      : GAMMA    0.3800E-01
Vegetation is off
Turbulence is off
Fluid mud is off
W-cap Komen ('84)  : EMPCOF (CDS2): 0.2360E-04
W-cap Komen ('84)  : APM (STPM)  : 0.3020E-02
W-cap Komen ('84)  : POWST      : 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
Set-up            : SUPCOR    0.0000E+00
Diffraction is off
Janssen ('89,'90) : ALPHA    0.1000E-01 KAPPA    0.4100E+00
Janssen ('89,'90) : 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
                   : CF70     0.0000E+00 CF80    -0.5600E+00
                   : RHOAW    0.1249E-02 EDMLEPM 0.3600E-02
                   : CDRAG    0.1230E-02 UMIN     0.1000E+01
                   : LIM_PM    0.1300E+00

```

First guess by 2nd generation model flags for first iteration:

```

ITER      1 GRWMX      0.1000E+23 ALFA      0.0000E+00
IWIND      2 IWCAP      0 IQUAD      0
ITRIAD     1 IBOT      1 ISURF      1
IVEG       0 ITURBV     0 IMUD      0

```

```

iteration    1; sweep 1
iteration    1; sweep 2
iteration    1; sweep 3
iteration    1; sweep 4
not possible to compute, first iteration

```

Options given by user are activated for proceeding calculation:

```

ITER      2 GRWMX      0.1000E+00 ALFA      0.0000E+00
IWIND      3 IWCAP      1 IQUAD      2
ITRIAD     1 IBOT      1 ISURF      1
IVEG       0 ITURBV     0 IMUD      0

```

```

iteration    2; sweep 1
iteration    2; sweep 2
iteration    2; sweep 3
iteration    2; sweep 4
accuracy OK in 5.75 % of wet grid points ( 99.50 % required)

```

```

iteration    3; sweep 1
iteration    3; sweep 2
iteration    3; sweep 3
iteration    3; sweep 4
accuracy OK in 1.15 % of wet grid points ( 99.50 % required)

```

```

iteration    4; sweep 1
iteration    4; sweep 2
iteration    4; sweep 3
iteration    4; sweep 4
accuracy OK in 5.75 % of wet grid points ( 99.50 % required)

```

```

iteration    5; sweep 1
iteration    5; sweep 2
iteration    5; sweep 3
iteration    5; sweep 4
accuracy OK in 21.84 % of wet grid points ( 99.50 % required)

```

```

iteration    6; sweep 1
iteration    6; sweep 2
iteration    6; sweep 3

```


iteration 6; sweep 4
accuracy OK in 95.41 % of wet grid points (99.50 % required)

iteration 7; sweep 1
iteration 7; sweep 2
iteration 7; sweep 3
iteration 7; sweep 4
accuracy OK in 97.71 % of wet grid points (99.50 % required)

iteration 8; sweep 1
iteration 8; sweep 2
iteration 8; sweep 3
iteration 8; sweep 4
accuracy OK in 100.00 % of wet grid points (99.50 % required)

STOP

Run : 1

Table:curve

SWAN version:41.20A

Xp [m]	Yp [m]	Hsig [m]	TPsmoo [sec]	RTpeak [sec]	Tm_10 [sec]	Dir [degr]	Dspr [degr]	Depth [m]	Setup [m]
0.	0.	2.48968	12.7563	12.4477	11.7873	0.000	31.5057	4.1700	0.000000
1.	0.	2.48939	12.7703	12.4477	11.4939	0.000	31.3051	4.1505	0.000533
2.	0.	2.48872	12.7833	12.4477	11.2360	0.000	31.0752	4.1210	0.000974
3.	0.	2.48630	12.7944	12.4477	11.0193	0.000	30.8664	4.0915	0.001479
4.	0.	2.48227	12.8035	12.4477	10.8388	0.000	30.6653	4.0620	0.002034
5.	0.	2.47684	12.8108	12.4477	10.6877	0.000	30.4599	4.0326	0.002628
6.	0.	2.47077	12.8164	12.4477	10.5541	0.000	30.2539	4.0033	0.003260
7.	0.	2.46388	12.8206	12.4477	10.4373	0.000	30.0470	3.9739	0.003928
8.	0.	2.45618	12.8236	12.4477	10.3350	0.000	29.8396	3.9446	0.004630
9.	0.	2.44775	12.8255	12.4477	10.2449	0.000	29.6320	3.9154	0.005364
10.	0.	2.43798	12.8265	12.4477	10.1653	0.000	29.3715	3.8861	0.006132
11.	0.	2.43118	12.8269	12.4477	10.0959	0.000	29.1273	3.8265	0.006534
12.	0.	2.41917	12.8264	12.4477	10.0298	0.000	28.9799	3.8177	0.007663
13.	0.	2.40758	12.8254	12.4477	9.9707	0.000	28.8830	3.8088	0.008785
14.	0.	2.39500	12.8240	12.4477	9.9173	0.000	28.8045	3.8100	0.010026
15.	0.	2.38343	12.8222	12.4477	9.8703	0.000	28.7150	3.8011	0.011107
16.	0.	2.37469	12.8203	12.4477	9.7975	0.000	28.6344	3.7922	0.012189
17.	0.	2.36616	12.8181	12.4477	9.7226	359.999	28.5572	3.7833	0.013290
18.	0.	2.35210	12.8158	12.4477	9.6795	359.977	28.5094	3.7747	0.014688
19.	0.	2.33740	12.8134	12.4477	9.6428	0.005	28.4450	3.7661	0.016079
20.	0.	2.32374	12.8110	12.4477	9.6038	359.956	28.3714	3.7574	0.017381
21.	0.	2.31071	12.8084	12.4477	9.5644	359.885	28.2870	3.7486	0.018617
22.	0.	2.29799	12.8059	12.4477	9.5263	359.813	28.2014	3.7398	0.019811
23.	0.	2.28543	12.8033	12.4477	9.4903	359.745	28.1156	3.7310	0.020974
24.	0.	2.27298	12.8007	12.4477	9.4564	359.681	28.0301	3.7221	0.022111
25.	0.	2.26062	12.7980	12.4477	9.4245	359.622	27.9450	3.7132	0.023222
26.	0.	2.25038	12.7954	12.4477	9.3847	359.608	27.8752	3.7042	0.024216
27.	0.	2.23978	12.7927	12.4477	9.3433	359.608	27.8116	3.7053	0.025282
28.	0.	2.23018	12.7901	12.4477	9.3051	359.614	27.7337	3.6962	0.026195
29.	0.	2.22269	12.7877	12.4477	9.2484	359.622	27.6588	3.6871	0.027104
30.	0.	2.21543	12.7855	12.4477	9.1894	359.630	27.5847	3.6780	0.028018
31.	0.	2.20503	12.7837	12.4477	9.1490	359.625	27.5347	3.6691	0.029078
32.	0.	2.19366	12.7821	12.4477	9.1158	359.648	27.4806	3.6602	0.030158
33.	0.	2.18256	12.7809	12.4477	9.0829	359.622	27.4150	3.6512	0.031198
34.	0.	2.17186	12.7798	12.4477	9.0497	359.586	27.3455	3.6422	0.032198
35.	0.	2.16130	12.7790	12.4477	9.0176	359.549	27.2747	3.6332	0.033172
36.	0.	2.15077	12.7783	12.4477	8.9871	359.514	27.2032	3.6241	0.034128
37.	0.	2.14026	12.7777	12.4477	8.9583	359.480	27.1314	3.6151	0.035067
38.	0.	2.12973	12.7773	12.4477	8.9313	359.447	27.0580	3.6060	0.035990
39.	0.	2.11938	12.7770	12.4477	8.9057	359.415	26.9983	3.5969	0.036897
40.	0.	2.10946	12.7767	12.4477	8.8736	359.410	26.9431	3.5978	0.037845
41.	0.	2.10084	12.7765	12.4477	8.8421	359.418	26.8737	3.5886	0.038633
42.	0.	2.09234	12.7763	12.4477	8.8111	359.430	26.7992	3.5794	0.039401
43.	0.	2.08383	12.7762	12.4477	8.7815	359.444	26.7245	3.5702	0.040158
44.	0.	2.07585	12.7762	12.4477	8.7486	359.464	26.6517	3.5609	0.040904
45.	0.	2.06799	12.7762	12.4477	8.7157	359.488	26.5813	3.5516	0.041641
46.	0.	2.06033	12.7762	12.4477	8.6828	359.518	26.5119	3.5424	0.042362
47.	0.	2.05265	12.7762	12.4477	8.6511	359.551	26.4428	3.5331	0.043073
48.	0.	2.04499	12.7763	12.4477	8.6202	359.587	26.3741	3.5238	0.043776
49.	0.	2.03737	12.7764	12.4477	8.5902	359.627	26.3053	3.5145	0.044468
50.	0.	2.02958	12.7765	12.4477	8.5622	359.666	26.2387	3.5052	0.045159
51.	0.	2.02168	12.7766	12.4477	8.5358	359.705	26.1739	3.4958	0.045848
52.	0.	2.01377	12.7767	12.4477	8.5112	359.741	26.1228	3.4865	0.046535
53.	0.	2.00493	12.7767	12.4477	8.4856	359.778	26.0520	3.4873	0.047318
54.	0.	1.99790	12.7769	12.4477	8.4667	359.819	25.9210	3.4578	0.047767
55.	0.	1.99179	12.7771	12.4477	8.4482	359.870	25.7943	3.4181	0.048114
56.	0.	1.98364	12.7771	12.4477	8.4243	359.919	25.7360	3.4088	0.048815
57.	0.	1.97463	12.7771	12.4477	8.3957	359.973	25.7211	3.4197	0.049709

58.	0.	1.96662	12.7771	12.4477	8.3703	0.028	25.7019	3.4205	0.050463
59.	0.	1.95806	12.7771	12.4477	8.3456	0.083	25.6000	3.4212	0.051189
60.	0.	1.95400	12.7773	12.4477	8.3332	0.147	25.4552	3.3612	0.051249
61.	0.	1.94576	12.7772	12.4477	8.3115	0.205	25.3669	3.3519	0.051917
62.	0.	1.93767	12.7772	12.4477	8.2908	0.263	25.3095	3.3426	0.052589
63.	0.	1.92917	12.7771	12.4477	8.2690	0.318	25.2955	3.3434	0.053364
64.	0.	1.92008	12.7769	12.4477	8.2461	0.372	25.2792	3.3542	0.054221
65.	0.	1.91259	12.7768	12.4477	8.2276	0.428	25.2336	3.3448	0.054833
66.	0.	1.90411	12.7767	12.4477	8.2086	0.481	25.0520	3.3354	0.055429
67.	0.	1.90237	12.7769	12.4477	8.2092	0.547	24.6986	3.2249	0.054897
68.	0.	1.89748	12.7769	12.4477	8.2069	0.612	24.1939	3.1245	0.054545
69.	0.	1.89725	12.7771	12.4477	8.2204	0.691	23.5289	2.9432	0.053214
70.	0.	1.89318	12.7770	12.4477	8.2303	0.781	22.8321	2.7722	0.052178
71.	0.	1.88670	12.7766	12.4477	8.2380	0.886	22.0244	2.5912	0.051170
72.	0.	1.88033	12.7759	12.4477	8.2475	1.023	21.1575	2.3698	0.049768
73.	0.	1.86206	12.7745	12.4477	8.2377	1.168	20.3645	2.2002	0.050232
74.	0.	1.83358	12.7729	12.4477	8.2169	1.321	19.6593	2.0625	0.052471
75.	0.	1.79975	12.7712	12.4477	8.1900	1.492	18.9631	1.9257	0.055653
76.	0.	1.75726	12.7697	12.4477	8.1827	1.571	18.1782	1.7701	0.060063
77.	0.	1.70692	12.7695	12.4477	8.1979	1.516	17.2337	1.5958	0.065775
78.	0.	1.66485	12.7703	12.4477	8.2182	1.429	16.1666	1.3702	0.070180
79.	0.	1.61533	12.7720	12.4477	8.2035	1.349	15.1680	1.1877	0.077682
80.	0.	1.50447	12.7822	12.4477	8.4256	1.098	14.4615	1.0204	0.100380
81.	0.	1.28161	12.9564	12.4477	8.9049	359.724	13.9675	0.8631	0.153150
82.	0.	1.02798	13.1427	13.8874	9.4934	357.930	13.3858	0.6859	0.215937
83.	0.	0.85824	13.3518	13.8874	9.8036	357.014	12.5588	0.5692	0.259206
84.	0.	0.75452	13.6421	13.8874	9.6524	356.368	11.6195	0.5061	0.286052
85.	0.	0.64427	13.7155	13.8874	9.9763	356.532	11.0816	0.4247	0.314686
86.	0.	0.59816	16.7734	17.2856	9.6518	356.495	11.0111	0.3971	0.327091

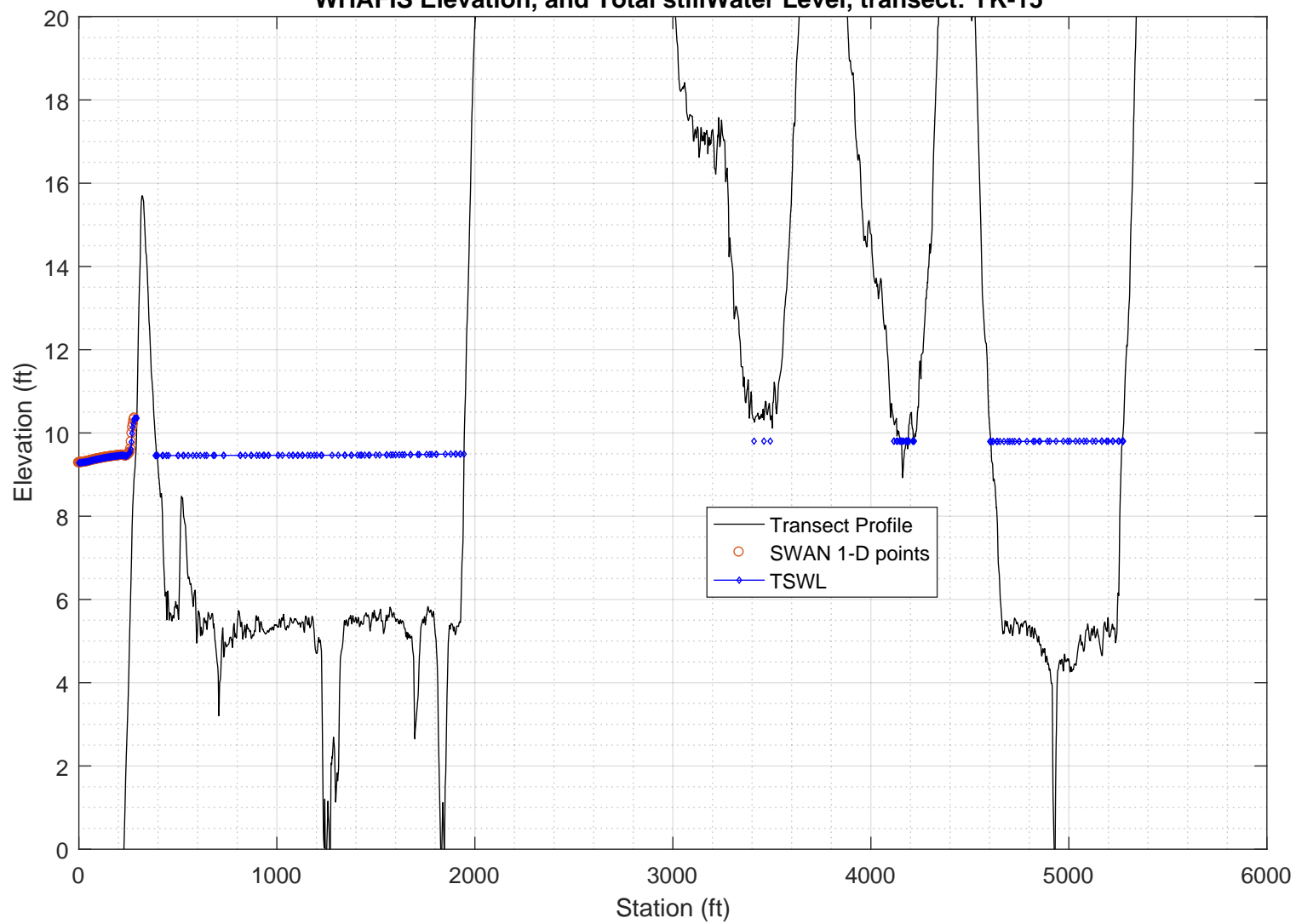
PART 3: WHAFIS

WHAFIS input: YK-15.dat

WHAFIS output: YK-15.out

PART 3 COMPLETE

WHAFIS Elevation, and Total stillWater Level, transect: YK-15



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

Executed on: Thu Feb 6 16:14:34 2020

Input file: C:\Users\shayward\Desktop\Kittery\T2\3_whafis\whafis4\YK-15.dat

Output file: C:\Users\shayward\Desktop\Kittery\T2\3_whafis\whafis4\YK-15.out

header

THIS IS A 100-YEAR CASE

THE FOLLOWING NON-DEFAULT WIND SPEEDS ARE BEING USED

WINDIF 56.14 WINDOF 56.14 WINDVH 60.00

PART1 INPUT

IE	0.000	-4.414	1.000	1.000	9.282	13.093	13.062	56.140	0.029	0.000
OF	3.300	-4.318	0.000	9.284	0.000	0.000	0.000	0.000	0.029	0.000
OF	6.600	-4.222	0.000	9.285	0.000	0.000	0.000	0.000	0.030	0.000
OF	9.800	-4.126	0.000	9.287	0.000	0.000	0.000	0.000	0.030	0.000
OF	13.100	-4.030	0.000	9.288	0.000	0.000	0.000	0.000	0.029	0.000
OF	16.400	-3.934	0.000	9.290	0.000	0.000	0.000	0.000	0.029	0.000
OF	19.700	-3.838	0.000	9.293	0.000	0.000	0.000	0.000	0.029	0.000
OF	23.000	-3.742	0.000	9.295	0.000	0.000	0.000	0.000	0.030	0.000
OF	26.200	-3.645	0.000	9.297	0.000	0.000	0.000	0.000	0.030	0.000
OF	29.500	-3.549	0.000	9.300	0.000	0.000	0.000	0.000	0.029	0.000
OF	32.800	-3.453	0.000	9.302	0.000	0.000	0.000	0.000	0.044	0.000
OF	36.100	-3.261	0.000	9.303	0.000	0.000	0.000	0.000	0.034	0.000
OF	39.400	-3.231	0.000	9.307	0.000	0.000	0.000	0.000	0.009	0.000
OF	42.700	-3.201	0.000	9.311	0.000	0.000	0.000	0.000	0.009	0.000
OF	45.900	-3.171	0.000	9.315	0.000	0.000	0.000	0.000	0.009	0.000
OF	49.200	-3.140	0.000	9.318	0.000	0.000	0.000	0.000	0.009	0.000
OF	52.500	-3.110	0.000	9.322	0.000	0.000	0.000	0.000	0.009	0.000
OF	55.800	-3.080	0.000	9.325	0.000	0.000	0.000	0.000	0.009	0.000
OF	59.100	-3.049	0.000	9.330	0.000	0.000	0.000	0.000	0.009	0.000
OF	62.300	-3.019	0.000	9.335	0.000	0.000	0.000	0.000	0.009	0.000
OF	65.600	-2.989	0.000	9.339	0.000	0.000	0.000	0.000	0.009	0.000
OF	68.900	-2.958	0.000	9.343	0.000	0.000	0.000	0.000	0.009	0.000
OF	72.200	-2.928	0.000	9.347	0.000	0.000	0.000	0.000	0.009	0.000
OF	75.500	-2.898	0.000	9.351	0.000	0.000	0.000	0.000	0.009	0.000
OF	78.700	-2.868	0.000	9.354	0.000	0.000	0.000	0.000	0.009	0.000
OF	82.000	-2.837	0.000	9.358	0.000	0.000	0.000	0.000	0.009	0.000
OF	85.300	-2.807	0.000	9.361	0.000	0.000	0.000	0.000	0.009	0.000
OF	88.600	-2.777	0.000	9.365	0.000	0.000	0.000	0.000	0.009	0.000
OF	91.900	-2.746	0.000	9.368	0.000	0.000	0.000	0.000	0.009	0.000
OF	95.100	-2.716	0.000	9.371	0.000	0.000	0.000	0.000	0.009	0.000
OF	98.400	-2.686	0.000	9.374	0.000	0.000	0.000	0.000	0.009	0.000
OF	101.700	-2.655	0.000	9.377	0.000	0.000	0.000	0.000	0.009	0.000
OF	105.000	-2.625	0.000	9.381	0.000	0.000	0.000	0.000	0.009	0.000
OF	108.300	-2.595	0.000	9.384	0.000	0.000	0.000	0.000	0.009	0.000
OF	111.500	-2.565	0.000	9.387	0.000	0.000	0.000	0.000	0.009	0.000
OF	114.800	-2.534	0.000	9.391	0.000	0.000	0.000	0.000	0.009	0.000
OF	118.100	-2.504	0.000	9.394	0.000	0.000	0.000	0.000	0.009	0.000
OF	121.400	-2.474	0.000	9.397	0.000	0.000	0.000	0.000	0.009	0.000
OF	124.700	-2.443	0.000	9.400	0.000	0.000	0.000	0.000	0.009	0.000
OF	128.000	-2.413	0.000	9.403	0.000	0.000	0.000	0.000	0.009	0.000
OF	131.200	-2.383	0.000	9.406	0.000	0.000	0.000	0.000	0.009	0.000
OF	134.500	-2.352	0.000	9.409	0.000	0.000	0.000	0.000	0.009	0.000
OF	137.800	-2.322	0.000	9.411	0.000	0.000	0.000	0.000	0.009	0.000
OF	141.100	-2.292	0.000	9.414	0.000	0.000	0.000	0.000	0.009	0.000
OF	144.400	-2.261	0.000	9.416	0.000	0.000	0.000	0.000	0.009	0.000
OF	147.600	-2.231	0.000	9.418	0.000	0.000	0.000	0.000	0.009	0.000
OF	150.900	-2.201	0.000	9.421	0.000	0.000	0.000	0.000	0.009	0.000
OF	154.200	-2.171	0.000	9.423	0.000	0.000	0.000	0.000	0.009	0.000
OF	157.500	-2.140	0.000	9.425	0.000	0.000	0.000	0.000	0.009	0.000
OF	160.800	-2.110	0.000	9.428	0.000	0.000	0.000	0.000	0.009	0.000
OF	164.000	-2.080	0.000	9.430	0.000	0.000	0.000	0.000	0.009	0.000
OF	167.300	-2.049	0.000	9.432	0.000	0.000	0.000	0.000	0.009	0.000
OF	170.600	-2.019	0.000	9.434	0.000	0.000	0.000	0.000	0.009	0.000
OF	173.900	-1.989	0.000	9.437	0.000	0.000	0.000	0.000	0.019	0.000
OF	177.200	-1.894	0.000	9.439	0.000	0.000	0.000	0.000	0.035	0.000
OF	180.400	-1.762	0.000	9.440	0.000	0.000	0.000	0.000	0.024	0.000
OF	183.700	-1.740	0.000	9.442	0.000	0.000	0.000	0.000	-0.002	0.000
OF	187.000	-1.775	0.000	9.445	0.000	0.000	0.000	0.000	-0.006	0.000
OF	190.300	-1.781	0.000	9.447	0.000	0.000	0.000	0.000	0.002	0.000
OF	193.600	-1.760	0.000	9.450	0.000	0.000	0.000	0.000	0.031	0.000
OF	196.800	-1.578	0.000	9.450	0.000	0.000	0.000	0.000	0.034	0.000
OF	200.100	-1.541	0.000	9.452	0.000	0.000	0.000	0.000	0.009	0.000
OF	203.400	-1.522	0.000	9.454	0.000	0.000	0.000	0.000	0.002	0.000
OF	206.700	-1.525	0.000	9.457	0.000	0.000	0.000	0.000	-0.004	0.000
OF	210.000	-1.547	0.000	9.460	0.000	0.000	0.000	0.000	0.003	0.000
OF	213.300	-1.507	0.000	9.462	0.000	0.000	0.000	0.000	0.009	0.000
OF	216.500	-1.489	0.000	9.464	0.000	0.000	0.000	0.000	0.058	0.000
OF	219.800	-1.130	0.000	9.462	0.000	0.000	0.000	0.000	0.104	0.000
OF	223.100	-0.804	0.000	9.461	0.000	0.000	0.000	0.000	0.139	0.000
OF	226.400	-0.210	0.000	9.457	0.000	0.000	0.000	0.000	0.177	0.000
IF	229.700	0.363	0.000	9.453	0.000	0.000	0.000	0.000	0.180	0.000
IF	232.900	0.959	0.000	9.450	0.000	0.000	0.000	0.000	0.203	0.000
IF	236.200	1.680	0.000	9.445	0.000	0.000	0.000	0.000	0.192	0.000
IF	239.500	2.229	0.000	9.447	0.000	0.000	0.000	0.000	0.153	0.000
IF	242.800	2.693	0.000	9.454	0.000	0.000	0.000	0.000	0.139	0.000
IF	246.100	3.149	0.000	9.465	0.000	0.000	0.000	0.000	0.149	0.000
IF	249.300	3.661	0.000	9.479	0.000	0.000	0.000	0.000	0.173	0.000
IF	252.600	4.276	0.000	9.498	0.000	0.000	0.000	0.000	0.208	0.000
IF	255.900	5.032	0.000	9.512	0.000	0.000	0.000	0.000	0.209	0.000
IF	259.200	5.656	0.000	9.537	0.000	0.000	0.000	0.000	0.189	0.000
IF	262.500	6.277	0.000	9.611	0.000	0.000	0.000	0.000	0.198	0.000
IF	265.700	6.941	0.000	9.784	0.000	0.000	0.000	0.000	0.226	0.000
IF	269.000	7.749	0.000	9.990	0.000	0.000	0.000	0.000	0.200	0.000
IF	272.300	8.259	0.000	10.132	0.000	0.000	0.000	0.000	0.122	0.000
IF	275.600	8.557	0.000	10.220	0.000	0.000	0.000	0.000	0.098	0.000
IF	278.900	8.906	0.000	10.314	0.000	0.000	0.000	0.000	0.077	0.000
IF	282.200	9.066	0.000	10.355	0.000	0.000	0.000	0.000	0.067	0.000
IF	288.000	9.516	0.000	10.355	0.000	0.000	0.000	0.000	0.082	0.000
IF	289.000	9.625	0.000	10.355	0.000	0.000	0.000	0.000	0.168	0.000
IF	293.000	10.355	0.000	10.355	0.000	0.000	0.000	0.000	0.183	0.000
AS	392.800	9.458	0.000	9.458	0.000	0.000	0.000	0.000	-0.043	0.000
IF	393.000	9.449	0.000	9.458	0.000	0.000	0.000	0.000	-0.023	0.000
IF	398.000	9.338	0.000	9.458	0.000	0.000	0.000	0.000	-0.048	0.000
IF	422.000	8.062	0.000	9.458	0.000	0.000	0.000	0.000	-0.077	0.000
IF	426.000	7.187	0.000	9.458	0.000	0.000	0.000	0.000	-0.112	0.000
IF	443.000	5.713	0.000	9.458	0.000	0.000	0.000	0.000	-0.049	0.000
IF	453.000	5.870	0.000	9.458	0.000	0.000	0.000	0.000	-0.001	0.000
IF	501.000	5.653	0.000	9.458	0.000	0.000	0.000	0.000	-0.006	0.000
IF	502.000	5.593	0.000	9.458	0.000	0.000	0.000	0.000	0.097	0.000
IF	527.000	8.182	0.000	9.458	0.000	0.000	0.000	0.000	0.085	0.000
IF	530.000	7.977	0.000	9.458	0.000	0.000	0.000	0.000	-0.066	0.000

IF	552.000	6.536	0.000	9.459	0.000	0.000	0.000	0.000	-0.045	0.000
IF	576.000	5.898	0.000	9.459	0.000	0.000	0.000	0.000	-0.033	0.000
IF	594.000	5.161	0.000	9.459	0.000	0.000	0.000	0.000	-0.016	0.000
IF	613.000	5.299	0.000	9.460	0.000	0.000	0.000	0.000	0.009	0.000
IF	635.000	5.531	0.000	9.460	0.000	0.000	0.000	0.000	0.000	0.000
IF	646.000	5.312	0.000	9.460	0.000	0.000	0.000	0.000	-0.004	0.000
IF	679.000	5.374	0.000	9.460	0.000	0.000	0.000	0.000	-0.004	0.000
IF	686.000	5.137	0.000	9.460	0.000	0.000	0.000	0.000	-0.013	0.000
IF	731.000	4.722	0.000	9.461	0.000	0.000	0.000	0.000	-0.011	0.000
IF	732.000	4.620	0.000	9.461	0.000	0.000	0.000	0.000	0.009	0.000
IF	815.000	5.469	0.000	9.462	0.000	0.000	0.000	0.000	0.009	0.000
IF	816.000	5.408	0.000	9.462	0.000	0.000	0.000	0.000	-0.010	0.000
IF	841.000	5.215	0.000	9.462	0.000	0.000	0.000	0.000	-0.006	0.000
IF	870.000	5.084	0.000	9.462	0.000	0.000	0.000	0.000	-0.005	0.000
IF	871.000	5.061	0.000	9.462	0.000	0.000	0.000	0.000	0.017	0.000
IF	898.000	5.549	0.000	9.462	0.000	0.000	0.000	0.000	0.006	0.000
IF	912.000	5.311	0.000	9.462	0.000	0.000	0.000	0.000	-0.009	0.000
IF	932.000	5.259	0.000	9.463	0.000	0.000	0.000	0.000	-0.004	0.000
IF	936.000	5.219	0.000	9.463	0.000	0.000	0.000	0.000	-0.001	0.000
IF	957.000	5.232	0.000	9.463	0.000	0.000	0.000	0.000	0.000	0.000
IF	958.000	5.223	0.000	9.463	0.000	0.000	0.000	0.000	0.002	0.000
IF	1006.000	5.340	0.000	9.463	0.000	0.000	0.000	0.000	0.002	0.000
IF	1007.000	5.343	0.000	9.463	0.000	0.000	0.000	0.000	0.008	0.000
IF	1028.000	5.511	0.000	9.463	0.000	0.000	0.000	0.000	0.000	0.000
IF	1061.000	5.361	0.000	9.463	0.000	0.000	0.000	0.000	-0.002	0.000
IF	1081.000	5.431	0.000	9.463	0.000	0.000	0.000	0.000	0.004	0.000
IF	1082.000	5.433	0.000	9.463	0.000	0.000	0.000	0.000	0.000	0.000
IF	1105.000	5.441	0.000	9.463	0.000	0.000	0.000	0.000	0.000	0.000
IF	1106.000	5.424	0.000	9.463	0.000	0.000	0.000	0.000	0.001	0.000
IF	1129.000	5.469	0.000	9.463	0.000	0.000	0.000	0.000	0.002	0.000
IF	1130.000	5.463	0.000	9.463	0.000	0.000	0.000	0.000	-0.002	0.000
IF	1156.000	5.405	0.000	9.463	0.000	0.000	0.000	0.000	-0.002	0.000
IF	1171.000	5.370	0.000	9.463	0.000	0.000	0.000	0.000	-0.007	0.000
IF	1189.000	5.170	0.000	9.463	0.000	0.000	0.000	0.000	-0.022	0.000
IF	1202.000	4.703	0.000	9.464	0.000	0.000	0.000	0.000	-0.010	0.000
IF	1224.000	4.809	0.000	9.464	0.000	0.000	0.000	0.000	-0.023	0.000
IF	1227.000	4.116	0.000	9.464	0.000	0.000	0.000	0.000	-0.047	0.000
IF	1279.000	2.222	0.000	9.465	0.000	0.000	0.000	0.000	-0.028	0.000
IF	1310.000	1.815	0.000	9.466	0.000	0.000	0.000	0.000	0.051	0.000
IF	1343.000	5.462	0.000	9.466	0.000	0.000	0.000	0.000	0.106	0.000
IF	1344.000	5.437	0.000	9.466	0.000	0.000	0.000	0.000	0.001	0.000
IF	1376.000	5.498	0.000	9.467	0.000	0.000	0.000	0.000	0.001	0.000
IF	1377.000	5.460	0.000	9.467	0.000	0.000	0.000	0.000	-0.001	0.000
IF	1407.000	5.469	0.000	9.467	0.000	0.000	0.000	0.000	-0.002	0.000
IF	1421.000	5.384	0.000	9.467	0.000	0.000	0.000	0.000	-0.002	0.000
IF	1428.000	5.434	0.000	9.467	0.000	0.000	0.000	0.000	0.010	0.000
IF	1444.000	5.611	0.000	9.468	0.000	0.000	0.000	0.000	0.004	0.000
IF	1465.000	5.563	0.000	9.468	0.000	0.000	0.000	0.000	-0.009	0.000
IF	1468.000	5.391	0.000	9.468	0.000	0.000	0.000	0.000	0.000	0.000
IF	1500.000	5.555	0.000	9.470	0.000	0.000	0.000	0.000	0.005	0.000
IF	1519.000	5.668	0.000	9.471	0.000	0.000	0.000	0.000	0.000	0.000
IF	1554.000	5.566	0.000	9.473	0.000	0.000	0.000	0.000	-0.004	0.000
IF	1555.000	5.530	0.000	9.473	0.000	0.000	0.000	0.000	0.010	0.000
IF	1575.000	5.778	0.000	9.474	0.000	0.000	0.000	0.000	0.004	0.000
IF	1586.000	5.640	0.000	9.474	0.000	0.000	0.000	0.000	-0.011	0.000
IF	1600.000	5.512	0.000	9.475	0.000	0.000	0.000	0.000	-0.005	0.000
IF	1618.000	5.482	0.000	9.476	0.000	0.000	0.000	0.000	-0.001	0.000
IF	1633.000	5.480	0.000	9.477	0.000	0.000	0.000	0.000	-0.007	0.000
IF	1645.000	5.298	0.000	9.477	0.000	0.000	0.000	0.000	-0.009	0.000
IF	1675.000	5.083	0.000	9.479	0.000	0.000	0.000	0.000	-0.007	0.000
IF	1676.000	5.087	0.000	9.479	0.000	0.000	0.000	0.000	-0.040	0.000
IF	1712.000	3.603	0.000	9.482	0.000	0.000	0.000	0.000	-0.013	0.000
IF	1719.000	4.516	0.000	9.482	0.000	0.000	0.000	0.000	0.046	0.000
IF	1756.000	5.631	0.000	9.484	0.000	0.000	0.000	0.000	0.022	0.000
IF	1773.000	5.710	0.000	9.485	0.000	0.000	0.000	0.000	-0.001	0.000
IF	1783.000	5.613	0.000	9.486	0.000	0.000	0.000	0.000	-0.024	0.000
IF	1805.000	4.925	0.000	9.488	0.000	0.000	0.000	0.000	-0.035	0.000
IF	1806.000	4.817	0.000	9.488	0.000	0.000	0.000	0.000	-0.072	0.000
IF	1851.000	1.607	0.000	9.491	0.000	0.000	0.000	0.000	0.008	0.000
IF	1879.000	5.402	0.000	9.493	0.000	0.000	0.000	0.000	0.069	0.000
IF	1903.000	5.183	0.000	9.494	0.000	0.000	0.000	0.000	-0.008	0.000
IF	1904.000	5.203	0.000	9.494	0.000	0.000	0.000	0.000	0.011	0.000
IF	1926.000	5.441	0.000	9.494	0.000	0.000	0.000	0.000	0.011	0.000
IF	1927.000	5.450	0.000	9.494	0.000	0.000	0.000	0.000	0.210	0.000
IF	1945.300	9.494	0.000	9.494	0.000	0.000	0.000	0.000	0.221	0.000
AS	4155.000	9.803	0.000	9.803	0.000	0.000	0.000	0.000	-0.175	0.000
IF	4159.000	9.101	0.000	9.803	0.000	0.000	0.000	0.000	-0.041	0.000
IF	4166.000	9.353	0.000	9.803	0.000	0.000	0.000	0.000	0.035	0.000
IF	4177.000	9.726	0.000	9.803	0.000	0.000	0.000	0.000	0.035	0.000
IF	4178.800	9.803	0.000	9.803	0.000	0.000	0.000	0.000	0.042	0.000
AS	4606.100	9.795	0.000	9.795	0.000	0.000	0.000	0.000	-0.069	0.000
IF	4616.000	9.111	0.000	9.795	0.000	0.000	0.000	0.000	-0.075	0.000
IF	4617.000	8.983	0.000	9.795	0.000	0.000	0.000	0.000	-0.050	0.000
IF	4636.000	8.107	0.000	9.795	0.000	0.000	0.000	0.000	-0.053	0.000
IF	4639.000	7.817	0.000	9.795	0.000	0.000	0.000	0.000	-0.119	0.000
IF	4652.000	6.199	0.000	9.795	0.000	0.000	0.000	0.000	-0.079	0.000
IF	4672.000	5.225	0.000	9.795	0.000	0.000	0.000	0.000	-0.021	0.000
IF	4691.000	5.385	0.000	9.795	0.000	0.000	0.000	0.000	-0.001	0.000
IF	4701.000	5.201	0.000	9.795	0.000	0.000	0.000	0.000	-0.009	0.000
IF	4715.000	5.158	0.000	9.796	0.000	0.000	0.000	0.000	0.013	0.000
IF	4727.000	5.543	0.000	9.796	0.000	0.000	0.000	0.000	0.001	0.000
IF	4749.000	5.205	0.000	9.796	0.000	0.000	0.000	0.000	-0.016	0.000
IF	4750.000	5.177	0.000	9.796	0.000	0.000	0.000	0.000	-0.001	0.000
IF	4788.000	5.182	0.000	9.797	0.000	0.000	0.000	0.000	-0.001	0.000
IF	4820.000	5.118	0.000	9.798	0.000	0.000	0.000	0.000	0.003	0.000
IF	4828.000	5.291	0.000	9.799	0.000	0.000	0.000	0.000	-0.004	0.000
IF	4850.000	4.997	0.000	9.799	0.000	0.000	0.000	0.000	-0.015	0.000
IF	4854.000	4.911	0.000	9.799	0.000	0.000	0.000	0.000	-0.011	0.000
IF	4892.000	4.519	0.000	9.801	0.000	0.000	0.000	0.000	-0.012	0.000
IF	4904.000	4.324	0.000	9.801	0.000	0.000	0.000	0.000	-0.051	0.000
IF	4935.000	2.332	0.000	9.801	0.000	0.000	0.000	0.000	-0.001	0.000
IF	4972.000	4.280	0.000	9.801	0.000	0.000	0.000	0.000	0.038	0.000
IF	4994.000	4.554	0.000	9.801	0.000	0.000	0.000	0.000	0.001	0.000
IF	5005.000	4.306	0.000	9.801	0.000	0.000	0.000	0.000	-0.003	0.000
IF	5034.000	4.439	0.000	9.801	0.000	0.000	0.000	0.000	0.014	0.000
IF	5054.000	5.017	0.000	9.801	0.000	0.000	0.000	0.000	0.008	0.000
IF	5076.000	4.765	0.000	9.802	0.000	0.000	0.000	0.000	0.007	0.000
IF	5090.000	5.269	0.000	9.802	0.000	0.000	0.000	0.000	0.010	0.000
IF	5119.000	5.193	0.000	9.802	0.000	0				

IF	5166.000	4.664	0.000	9.802	0.000	0.000	0.000	0.000	0.000	-0.015	0.000
IF	5167.000	4.656	0.000	9.802	0.000	0.000	0.000	0.000	0.000	0.025	0.000
IF	5191.000	5.283	0.000	9.803	0.000	0.000	0.000	0.000	0.000	0.029	0.000
IF	5198.000	5.566	0.000	9.803	0.000	0.000	0.000	0.000	0.000	0.003	0.000
IF	5222.000	5.383	0.000	9.803	0.000	0.000	0.000	0.000	0.000	-0.009	0.000
IF	5223.000	5.332	0.000	9.803	0.000	0.000	0.000	0.000	0.000	0.027	0.000
IF	5250.000	6.133	0.000	9.803	0.000	0.000	0.000	0.000	0.000	0.035	0.000
IF	5253.000	6.380	0.000	9.803	0.000	0.000	0.000	0.000	0.000	0.186	0.000
IF	5269.700	9.803	0.000	9.803	0.000	0.000	0.000	0.000	0.000	0.205	0.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	END	END	FETCH	SURGE ELEV	SURGE ELEV	INITIAL	INITIAL		BOTTOM	AVERAGE	
	STATION	ELEVATION	LENGTH	10-YEAR	100-YEAR	WAVE HEIGHT	W. PERIOD		SLOPE	A-ZONES	
IE	0.000	-4.414	1.000	1.000	9.282	13.093	13.062	56.140	0.029	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	3.300	-4.318	0.000	9.284	0.000	0.000	0.000	0.000	0.029	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	6.600	-4.222	0.000	9.285	0.000	0.000	0.000	0.000	0.030	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	9.800	-4.126	0.000	9.287	0.000	0.000	0.000	0.000	0.030	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	13.100	-4.030	0.000	9.288	0.000	0.000	0.000	0.000	0.029	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	16.400	-3.934	0.000	9.290	0.000	0.000	0.000	0.000	0.029	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	19.700	-3.838	0.000	9.293	0.000	0.000	0.000	0.000	0.029	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	23.000	-3.742	0.000	9.295	0.000	0.000	0.000	0.000	0.030	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	26.200	-3.645	0.000	9.297	0.000	0.000	0.000	0.000	0.030	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	29.500	-3.549	0.000	9.300	0.000	0.000	0.000	0.000	0.029	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	32.800	-3.453	0.000	9.302	0.000	0.000	0.000	0.000	0.044	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	36.100	-3.261	0.000	9.303	0.000	0.000	0.000	0.000	0.034	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	39.400	-3.231	0.000	9.307	0.000	0.000	0.000	0.000	0.009	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	42.700	-3.201	0.000	9.311	0.000	0.000	0.000	0.000	0.009	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	45.900	-3.171	0.000	9.315	0.000	0.000	0.000	0.000	0.009	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	49.200	-3.140	0.000	9.318	0.000	0.000	0.000	0.000	0.009	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	52.500	-3.110	0.000	9.322	0.000	0.000	0.000	0.000	0.009	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	55.800	-3.080	0.000	9.325	0.000	0.000	0.000	0.000	0.009	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	59.100	-3.049	0.000	9.330	0.000	0.000	0.000	0.000	0.009	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	62.300	-3.019	0.000	9.335	0.000	0.000	0.000	0.000	0.009	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	65.600	-2.989	0.000	9.339	0.000	0.000	0.000	0.000	0.009	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	68.900	-2.958	0.000	9.343	0.000	0.000	0.000	0.000	0.009	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	72.200	-2.928	0.000	9.347	0.000	0.000	0.000	0.000	0.009	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	75.500	-2.898	0.000	9.351	0.000	0.000	0.000	0.000	0.009	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	78.700	-2.868	0.000	9.354	0.000	0.000	0.000	0.000	0.009	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	82.000	-2.837	0.000	9.358	0.000	0.000	0.000	0.000	0.009	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	85.300	-2.807	0.000	9.361	0.000	0.000	0.000	0.000	0.009	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	88.600	-2.777	0.000	9.365	0.000	0.000	0.000	0.000	0.009	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	91.900	-2.746	0.000	9.368	0.000	0.000	0.000	0.000	0.009	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	95.100	-2.716	0.000	9.371	0.000	0.000	0.000	0.000	0.009	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	98.400	-2.686	0.000	9.374	0.000	0.000	0.000	0.000	0.009	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	101.700	-2.655	0.000	9.377	0.000	0.000	0.000	0.000	0.009	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	105.000	-2.625	0.000	9.381	0.000	0.000	0.000	0.000	0.009	0.000	

	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	108.300	-2.595	0.000	9.384	0.000	0.000	0.000	0.000	0.009	0.009	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	111.500	-2.565	0.000	9.387	0.000	0.000	0.000	0.000	0.009	0.009	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	114.800	-2.534	0.000	9.391	0.000	0.000	0.000	0.000	0.009	0.009	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	118.100	-2.504	0.000	9.394	0.000	0.000	0.000	0.000	0.009	0.009	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	121.400	-2.474	0.000	9.397	0.000	0.000	0.000	0.000	0.009	0.009	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	124.700	-2.443	0.000	9.400	0.000	0.000	0.000	0.000	0.009	0.009	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	128.000	-2.413	0.000	9.403	0.000	0.000	0.000	0.000	0.009	0.009	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	131.200	-2.383	0.000	9.406	0.000	0.000	0.000	0.000	0.009	0.009	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	134.500	-2.352	0.000	9.409	0.000	0.000	0.000	0.000	0.009	0.009	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	137.800	-2.322	0.000	9.411	0.000	0.000	0.000	0.000	0.009	0.009	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	141.100	-2.292	0.000	9.414	0.000	0.000	0.000	0.000	0.009	0.009	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	144.400	-2.261	0.000	9.416	0.000	0.000	0.000	0.000	0.009	0.009	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	147.600	-2.231	0.000	9.418	0.000	0.000	0.000	0.000	0.009	0.009	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	150.900	-2.201	0.000	9.421	0.000	0.000	0.000	0.000	0.009	0.009	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	154.200	-2.171	0.000	9.423	0.000	0.000	0.000	0.000	0.009	0.009	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	157.500	-2.140	0.000	9.425	0.000	0.000	0.000	0.000	0.009	0.009	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	160.800	-2.110	0.000	9.428	0.000	0.000	0.000	0.000	0.009	0.009	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	164.000	-2.080	0.000	9.430	0.000	0.000	0.000	0.000	0.009	0.009	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	167.300	-2.049	0.000	9.432	0.000	0.000	0.000	0.000	0.009	0.009	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	170.600	-2.019	0.000	9.434	0.000	0.000	0.000	0.000	0.009	0.009	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	173.900	-1.989	0.000	9.437	0.000	0.000	0.000	0.000	0.019	0.019	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	177.200	-1.894	0.000	9.439	0.000	0.000	0.000	0.000	0.035	0.035	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	180.400	-1.762	0.000	9.440	0.000	0.000	0.000	0.000	0.024	0.024	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	183.700	-1.740	0.000	9.442	0.000	0.000	0.000	0.000	-0.002	0.002	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	187.000	-1.775	0.000	9.445	0.000	0.000	0.000	0.000	-0.006	0.006	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	190.300	-1.781	0.000	9.447	0.000	0.000	0.000	0.000	0.002	0.002	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	193.600	-1.760	0.000	9.450	0.000	0.000	0.000	0.000	0.031	0.031	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	196.800	-1.578	0.000	9.450	0.000	0.000	0.000	0.000	0.034	0.034	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	200.100	-1.541	0.000	9.452	0.000	0.000	0.000	0.000	0.009	0.009	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	203.400	-1.522	0.000	9.454	0.000	0.000	0.000	0.000	0.002	0.002	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	206.700	-1.525	0.000	9.457	0.000	0.000	0.000	0.000	-0.004	0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	210.000	-1.547	0.000	9.460	0.000	0.000	0.000	0.000	0.003	0.003	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	213.300	-1.507	0.000	9.462	0.000	0.000	0.000	0.000	0.009	0.009	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	216.500	-1.489	0.000	9.464	0.000	0.000	0.000	0.000	0.058	0.058	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	219.800	-1.130	0.000	9.462	0.000	0.000	0.000	0.000	0.104	0.104	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	223.100	-0.804	0.000	9.461	0.000	0.000	0.000	0.000	0.139	0.139	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES

OF	226.400	-0.210	0.000	9.457	0.000	0.000	0.000	0.000	0.177	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	229.700	0.363	0.000	9.453	0.000	0.000	0.000	0.000	0.180	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	232.900	0.959	0.000	9.450	0.000	0.000	0.000	0.000	0.203	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	236.200	1.680	0.000	9.445	0.000	0.000	0.000	0.000	0.192	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	239.500	2.229	0.000	9.447	0.000	0.000	0.000	0.000	0.153	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	242.800	2.693	0.000	9.454	0.000	0.000	0.000	0.000	0.139	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	246.100	3.149	0.000	9.465	0.000	0.000	0.000	0.000	0.149	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	249.300	3.661	0.000	9.479	0.000	0.000	0.000	0.000	0.173	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	252.600	4.276	0.000	9.498	0.000	0.000	0.000	0.000	0.208	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	255.900	5.032	0.000	9.512	0.000	0.000	0.000	0.000	0.209	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	259.200	5.656	0.000	9.537	0.000	0.000	0.000	0.000	0.189	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	262.500	6.277	0.000	9.611	0.000	0.000	0.000	0.000	0.198	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	265.700	6.941	0.000	9.784	0.000	0.000	0.000	0.000	0.226	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	269.000	7.749	0.000	9.990	0.000	0.000	0.000	0.000	0.200	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	272.300	8.259	0.000	10.132	0.000	0.000	0.000	0.000	0.122	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	275.600	8.557	0.000	10.220	0.000	0.000	0.000	0.000	0.098	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	278.900	8.906	0.000	10.314	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
IF	282.200	9.066	0.000	10.355	0.000	0.000	0.000	0.000	0.067	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	288.000	9.516	0.000	10.355	0.000	0.000	0.000	0.000	0.082	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	289.000	9.625	0.000	10.355	0.000	0.000	0.000	0.000	0.168	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	293.000	10.355	0.000	10.355	0.000	0.000	0.000	0.000	0.183	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
AS	392.800	9.458	0.000	9.458	0.000	0.000	0.000	0.000	-0.043	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	393.000	9.449	0.000	9.458	0.000	0.000	0.000	0.000	-0.023	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	398.000	9.338	0.000	9.458	0.000	0.000	0.000	0.000	-0.048	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	422.000	8.062	0.000	9.458	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
IF	426.000	7.187	0.000	9.458	0.000	0.000	0.000	0.000	-0.112	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	443.000	5.713	0.000	9.458	0.000	0.000	0.000	0.000	-0.049	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	453.000	5.870	0.000	9.458	0.000	0.000	0.000	0.000	-0.001	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	501.000	5.653	0.000	9.458	0.000	0.000	0.000	0.000	-0.006	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	502.000	5.593	0.000	9.458	0.000	0.000	0.000	0.000	0.097	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	527.000	8.182	0.000	9.458	0.000	0.000	0.000	0.000	0.085	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	530.000	7.977	0.000	9.458	0.000	0.000	0.000	0.000	-0.066	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	552.000	6.536	0.000	9.459	0.000	0.000	0.000	0.000	-0.045	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	576.000	5.898	0.000	9.459	0.000	0.000	0.000	0.000	-0.033	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	594.000	5.161	0.000	9.459	0.000	0.000	0.000	0.000	-0.016	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	613.000	5.299	0.000	9.460	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	635.000	5.531	0.000	9.460	0.000	0.000	0.000	0.000	0.000	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE

	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	646.000	5.312	0.000	9.460	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
IF	679.000	5.374	0.000	9.460	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
IF	686.000	5.137	0.000	9.460	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					SLOPE	A-ZONES
IF	731.000	4.722	0.000	9.461	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	732.000	4.620	0.000	9.461	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	815.000	5.469	0.000	9.462	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	816.000	5.408	0.000	9.462	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					SLOPE	A-ZONES
IF	841.000	5.215	0.000	9.462	0.000	0.000	0.000	0.000	-0.006	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	870.000	5.084	0.000	9.462	0.000	0.000	0.000	0.000	-0.005	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	871.000	5.061	0.000	9.462	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					SLOPE	A-ZONES
IF	898.000	5.549	0.000	9.462	0.000	0.000	0.000	0.000	0.006	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	912.000	5.311	0.000	9.462	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	932.000	5.259	0.000	9.463	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
IF	936.000	5.219	0.000	9.463	0.000	0.000	0.000	0.000	-0.001	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	957.000	5.232	0.000	9.463	0.000	0.000	0.000	0.000	0.000	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	958.000	5.223	0.000	9.463	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	1006.000	5.340	0.000	9.463	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	1007.000	5.343	0.000	9.463	0.000	0.000	0.000	0.000	0.008	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1028.000	5.511	0.000	9.463	0.000	0.000	0.000	0.000	0.000	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1061.000	5.361	0.000	9.463	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	1081.000	5.431	0.000	9.463	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
IF	1082.000	5.433	0.000	9.463	0.000	0.000	0.000	0.000	0.000	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1105.000	5.441	0.000	9.463	0.000	0.000	0.000	0.000	0.000	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1106.000	5.424	0.000	9.463	0.000	0.000	0.000	0.000	0.001	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1129.000	5.469	0.000	9.463	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	1130.000	5.463	0.000	9.463	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	1156.000	5.405	0.000	9.463	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	1171.000	5.370	0.000	9.463	0.000	0.000	0.000	0.000	-0.007	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1189.000	5.170	0.000	9.463	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	1202.000	4.703	0.000	9.464	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					SLOPE	A-ZONES
IF	1224.000	4.809	0.000	9.464	0.000	0.000	0.000	0.000	-0.023	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1227.000	4.116	0.000	9.464	0.000	0.000	0.000	0.000	-0.047	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1279.000	2.222	0.000	9.465	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					SLOPE	A-ZONES
IF	1310.000	1.815	0.000	9.466	0.000	0.000	0.000	0.000	0.051	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1343.000	5.462	0.000	9.466	0.000	0.000	0.000	0.000	0.106	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1344.000	5.437	0.000	9.466	0.000	0.000	0.000	0.000	0.001	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	1376.000	5.498	0.000	9.467	0.000	0.000	0.000	0.000	0.001	0.000

	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1377.000	5.460	0.000	9.467	0.000	0.000	0.000	0.000		-0.001	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1407.000	5.469	0.000	9.467	0.000	0.000	0.000	0.000		-0.002	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1421.000	5.384	0.000	9.467	0.000	0.000	0.000	0.000		-0.002	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1428.000	5.434	0.000	9.467	0.000	0.000	0.000	0.000		0.010	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1444.000	5.611	0.000	9.468	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1465.000	5.563	0.000	9.468	0.000	0.000	0.000	0.000		-0.009	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1468.000	5.391	0.000	9.468	0.000	0.000	0.000	0.000		0.000	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1500.000	5.555	0.000	9.470	0.000	0.000	0.000	0.000		0.005	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1519.000	5.668	0.000	9.471	0.000	0.000	0.000	0.000		0.000	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1554.000	5.566	0.000	9.473	0.000	0.000	0.000	0.000		-0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1555.000	5.530	0.000	9.473	0.000	0.000	0.000	0.000		0.010	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1575.000	5.778	0.000	9.474	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1586.000	5.640	0.000	9.474	0.000	0.000	0.000	0.000		-0.011	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1600.000	5.512	0.000	9.475	0.000	0.000	0.000	0.000		-0.005	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1618.000	5.482	0.000	9.476	0.000	0.000	0.000	0.000		-0.001	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1633.000	5.480	0.000	9.477	0.000	0.000	0.000	0.000		-0.007	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1645.000	5.298	0.000	9.477	0.000	0.000	0.000	0.000		-0.009	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1675.000	5.083	0.000	9.479	0.000	0.000	0.000	0.000		-0.007	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1676.000	5.087	0.000	9.479	0.000	0.000	0.000	0.000		-0.040	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1712.000	3.603	0.000	9.482	0.000	0.000	0.000	0.000		-0.013	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1719.000	4.516	0.000	9.482	0.000	0.000	0.000	0.000		0.046	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1756.000	5.631	0.000	9.484	0.000	0.000	0.000	0.000		0.022	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1773.000	5.710	0.000	9.485	0.000	0.000	0.000	0.000		-0.001	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1783.000	5.613	0.000	9.486	0.000	0.000	0.000	0.000		-0.024	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1805.000	4.925	0.000	9.488	0.000	0.000	0.000	0.000		-0.035	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1806.000	4.817	0.000	9.488	0.000	0.000	0.000	0.000		-0.072	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1851.000	1.607	0.000	9.491	0.000	0.000	0.000	0.000		0.008	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1879.000	5.402	0.000	9.493	0.000	0.000	0.000	0.000		0.069	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1903.000	5.183	0.000	9.494	0.000	0.000	0.000	0.000		-0.008	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1904.000	5.203	0.000	9.494	0.000	0.000	0.000	0.000		0.011	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1926.000	5.441	0.000	9.494	0.000	0.000	0.000	0.000		0.011	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1927.000	5.450	0.000	9.494	0.000	0.000	0.000	0.000		0.210	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	1945.300	9.494	0.000	9.494	0.000	0.000	0.000	0.000		0.221	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
AS	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	4155.000	9.803	0.000	9.803	0.000	0.000	0.000	0.000		-0.175	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	4159.000	9.101	0.000	9.803	0.000	0.000	0.000	0.000		-0.041	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	4166.000	9.353	0.000	9.803	0.000	0.000	0.000	0.000		0.035	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES

IF	4177.000	9.726	0.000	9.803	0.000	0.000	0.000	0.000	0.035	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	4178.800	9.803	0.000	9.803	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					SLOPE	A-ZONES
AS	4606.100	9.795	0.000	9.795	0.000	0.000	0.000	0.000	-0.069	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	4616.000	9.111	0.000	9.795	0.000	0.000	0.000	0.000	-0.075	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	4617.000	8.983	0.000	9.795	0.000	0.000	0.000	0.000	-0.050	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	4636.000	8.107	0.000	9.795	0.000	0.000	0.000	0.000	-0.053	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	4639.000	7.817	0.000	9.795	0.000	0.000	0.000	0.000	-0.119	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	4652.000	6.199	0.000	9.795	0.000	0.000	0.000	0.000	-0.079	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	4672.000	5.225	0.000	9.795	0.000	0.000	0.000	0.000	-0.021	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	4691.000	5.385	0.000	9.795	0.000	0.000	0.000	0.000	-0.001	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	4701.000	5.201	0.000	9.795	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	4715.000	5.158	0.000	9.796	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					SLOPE	A-ZONES
IF	4727.000	5.543	0.000	9.796	0.000	0.000	0.000	0.000	0.001	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	4749.000	5.205	0.000	9.796	0.000	0.000	0.000	0.000	-0.016	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	4750.000	5.177	0.000	9.796	0.000	0.000	0.000	0.000	-0.001	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	4788.000	5.182	0.000	9.797	0.000	0.000	0.000	0.000	-0.001	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	4820.000	5.118	0.000	9.798	0.000	0.000	0.000	0.000	0.003	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	4828.000	5.291	0.000	9.799	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
IF	4850.000	4.997	0.000	9.799	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	4854.000	4.911	0.000	9.799	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	4892.000	4.519	0.000	9.801	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	4904.000	4.324	0.000	9.801	0.000	0.000	0.000	0.000	-0.051	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	4935.000	2.332	0.000	9.801	0.000	0.000	0.000	0.000	-0.001	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	4972.000	4.280	0.000	9.801	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
IF	4994.000	4.554	0.000	9.801	0.000	0.000	0.000	0.000	0.001	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	5005.000	4.306	0.000	9.801	0.000	0.000	0.000	0.000	-0.003	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	5034.000	4.439	0.000	9.801	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					SLOPE	A-ZONES
IF	5054.000	5.017	0.000	9.801	0.000	0.000	0.000	0.000	0.008	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	5076.000	4.765	0.000	9.802	0.000	0.000	0.000	0.000	0.007	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	5090.000	5.269	0.000	9.802	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					SLOPE	A-ZONES
IF	5119.000	5.193	0.000	9.802	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
IF	5136.000	5.108	0.000	9.802	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	5166.000	4.664	0.000	9.802	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	5167.000	4.656	0.000	9.802	0.000	0.000	0.000	0.000	0.025	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	5191.000	5.283	0.000	9.803	0.000	0.000	0.000	0.000	0.029	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	5198.000	5.566	0.000	9.803	0.000	0.000	0.000	0.000	0.003	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	5222.000	5.383	0.000	9.803	0.000	0.000	0.000	0.000	-0.009	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE

IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	5223.000	5.332	0.000	9.803	0.000	0.000	0.000	0.000	0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	5250.000	6.133	0.000	9.803	0.000	0.000	0.000	0.000	0.035	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	5253.000	6.380	0.000	9.803	0.000	0.000	0.000	0.000	0.186	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	5269.700	9.803	0.000	9.803	0.000	0.000	0.000	0.000	0.205	0.000

-----END OF TRANSECT-----

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

1

PART2: CONTROLLING WAVE HEIGHTS, SPECTRAL			
PEAK WAVE PERIOD, AND WAVE CREST ELEVATIONS			
LOCATION	CONTROLLING	SPECTRAL PEAK	WAVE CREST
	WAVE HEIGHT	WAVE PERIOD	ELEVATION
IE	0.00	10.43	13.06
OF	3.30	10.36	13.06
OF	6.60	10.28	13.06
OF	9.80	10.21	13.06
OF	13.10	10.14	13.06
OF	16.40	10.07	13.06
OF	19.70	10.00	13.06
OF	23.00	9.94	13.06
OF	26.20	9.86	13.06
OF	29.50	9.79	13.06
OF	32.80	9.72	13.06
OF	36.10	9.58	13.06
OF	39.40	9.56	13.06
OF	42.70	9.54	13.06
OF	45.90	9.52	13.06
OF	49.20	9.50	13.06
OF	52.50	9.48	13.06
OF	55.80	9.46	13.06
OF	59.10	9.44	13.06
OF	62.30	9.43	13.06
OF	65.60	9.41	13.06
OF	68.90	9.39	13.06
OF	72.20	9.37	13.06
OF	75.50	9.35	13.06
OF	78.70	9.33	13.06
OF	82.00	9.31	13.06
OF	85.30	9.29	13.06
OF	88.60	9.27	13.06
OF	91.90	9.25	13.06
OF	95.10	9.23	13.06
OF	98.40	9.21	13.06
OF	101.70	9.19	13.06
OF	105.00	9.17	13.06
OF	108.30	9.15	13.06
OF	111.50	9.13	13.06
OF	114.80	9.11	13.06
OF	118.10	9.09	13.06
OF	121.40	9.07	13.06
OF	124.70	9.04	13.06
OF	128.00	9.02	13.06
OF	131.20	9.00	13.06
OF	134.50	8.98	13.06
OF	137.80	8.96	13.06
OF	141.10	8.94	13.06
OF	144.40	8.92	13.06
OF	147.60	8.90	13.06
OF	150.90	8.88	13.06
OF	154.20	8.86	13.06
OF	157.50	8.84	13.06
OF	160.80	8.82	13.06
OF	164.00	8.80	13.06
OF	167.30	8.77	13.06
OF	170.60	8.75	13.06
OF	173.90	8.73	13.06
OF	177.20	8.66	13.06
OF	180.40	8.56	13.06
OF	183.70	8.55	13.06
OF	187.00	8.56	13.06
OF	190.30	8.56	13.06
OF	193.60	8.56	13.06
OF	196.80	8.43	13.06
OF	200.10	8.41	13.06
OF	203.40	8.39	13.06
OF	206.70	8.40	13.06
OF	210.00	8.41	13.06
OF	213.30	8.39	13.06
OF	216.50	8.38	13.06
OF	219.80	8.11	13.06
OF	223.10	7.86	13.06
OF	226.40	7.41	13.06
IF	229.70	6.98	13.06
IF	232.90	6.52	13.06
IF	236.20	5.97	13.06
IF	239.50	5.56	13.06
IF	242.80	5.21	13.06
IF	246.10	4.87	13.06
IF	249.30	4.49	13.06
IF	252.60	4.04	13.06
IF	255.90	3.47	13.06
IF	259.20	3.01	13.06
IF	262.50	2.58	13.06
IF	265.70	2.21	13.06
IF	269.00	1.74	13.06
IF	272.30	1.46	13.06
IF	275.60	1.29	13.06
IF	278.90	1.10	13.06
IF	282.20	1.00	13.06
IF	288.00	0.65	13.06
IF	289.00	0.57	13.06
IF	293.00	0.01	13.06
AS	392.80	0.00	0.00

IF	393.00	0.01	0.12	9.46
IF	398.00	0.04	0.25	9.49
IF	422.00	0.14	0.43	9.55
IF	426.00	0.15	0.45	9.56
IF	443.00	0.20	0.52	9.60
IF	453.00	0.22	0.55	9.61
IF	501.00	0.33	0.67	9.69
IF	502.00	0.33	0.67	9.69
IF	527.00	0.37	0.72	9.72
IF	530.00	0.38	0.72	9.72
IF	552.00	0.42	0.76	9.76
IF	576.00	0.46	0.80	9.78
IF	594.00	0.49	0.82	9.80
IF	613.00	0.52	0.85	9.83
IF	635.00	0.56	0.87	9.85
IF	646.00	0.58	0.89	9.86
IF	679.00	0.62	0.92	9.90
IF	686.00	0.63	0.93	9.90
IF	731.00	0.70	0.98	9.95
IF	732.00	0.70	0.98	9.95
IF	815.00	0.81	1.05	10.03
IF	816.00	0.81	1.05	10.03
IF	841.00	0.84	1.07	10.05
IF	870.00	0.88	1.09	10.08
IF	871.00	0.88	1.10	10.08
IF	898.00	0.91	1.12	10.10
IF	912.00	0.93	1.13	10.11
IF	932.00	0.95	1.14	10.13
IF	936.00	0.95	1.14	10.13
IF	957.00	0.98	1.16	10.15
IF	958.00	0.98	1.16	10.15
IF	1006.00	1.03	1.19	10.18
IF	1007.00	1.03	1.19	10.18
IF	1028.00	1.05	1.20	10.20
IF	1061.00	1.09	1.22	10.22
IF	1081.00	1.11	1.24	10.24
IF	1082.00	1.11	1.24	10.24
IF	1105.00	1.13	1.25	10.25
IF	1106.00	1.13	1.25	10.26
IF	1129.00	1.15	1.26	10.27
IF	1130.00	1.16	1.26	10.27
IF	1156.00	1.18	1.28	10.29
IF	1171.00	1.20	1.29	10.30
IF	1189.00	1.22	1.30	10.31
IF	1202.00	1.24	1.30	10.33
IF	1224.00	1.26	1.31	10.34
IF	1227.00	1.26	1.32	10.35
IF	1279.00	1.32	1.34	10.39
IF	1310.00	1.35	1.36	10.41
IF	1343.00	1.35	1.37	10.41
IF	1344.00	1.35	1.37	10.41
IF	1376.00	1.37	1.39	10.43
IF	1377.00	1.37	1.39	10.43
IF	1407.00	1.40	1.40	10.44
IF	1421.00	1.41	1.41	10.45
IF	1428.00	1.41	1.41	10.46
IF	1444.00	1.42	1.42	10.46
IF	1465.00	1.43	1.43	10.47
IF	1468.00	1.44	1.43	10.48
IF	1500.00	1.46	1.44	10.49
IF	1519.00	1.46	1.45	10.50
IF	1554.00	1.50	1.47	10.52
IF	1555.00	1.50	1.47	10.52
IF	1575.00	1.49	1.48	10.52
IF	1586.00	1.51	1.48	10.53
IF	1600.00	1.53	1.49	10.54
IF	1618.00	1.54	1.49	10.56
IF	1633.00	1.56	1.50	10.57
IF	1645.00	1.57	1.50	10.58
IF	1675.00	1.60	1.52	10.60
IF	1676.00	1.61	1.52	10.60
IF	1712.00	1.67	1.53	10.65
IF	1719.00	1.66	1.53	10.64
IF	1756.00	1.61	1.55	10.61
IF	1773.00	1.61	1.55	10.61
IF	1783.00	1.63	1.56	10.63
IF	1805.00	1.70	1.56	10.68
IF	1806.00	1.71	1.56	10.68
IF	1851.00	1.79	1.58	10.74
IF	1879.00	1.71	1.59	10.69
IF	1903.00	1.75	1.60	10.72
IF	1904.00	1.75	1.60	10.72
IF	1926.00	1.73	1.61	10.71
IF	1927.00	1.73	1.61	10.71
IF	1945.30	0.01	1.61	9.50
AS	4155.00	0.00	0.00	9.80
IF	4159.00	0.04	0.23	9.83
IF	4166.00	0.07	0.32	9.85
IF	4177.00	0.05	0.39	9.84
IF	4178.80	0.01	0.41	9.81
AS	4606.10	0.00	0.00	9.80
IF	4616.00	0.07	0.30	9.84
IF	4617.00	0.07	0.31	9.85
IF	4636.00	0.14	0.44	9.89
IF	4639.00	0.15	0.45	9.90
IF	4652.00	0.19	0.50	9.92
IF	4672.00	0.24	0.57	9.96
IF	4691.00	0.28	0.62	9.99
IF	4701.00	0.30	0.64	10.01
IF	4715.00	0.33	0.67	10.03
IF	4727.00	0.35	0.69	10.04
IF	4749.00	0.39	0.73	10.07
IF	4750.00	0.40	0.74	10.07
IF	4788.00	0.46	0.79	10.12
IF	4820.00	0.51	0.84	10.16
IF	4828.00	0.53	0.85	10.17
IF	4850.00	0.56	0.88	10.19
IF	4854.00	0.57	0.88	10.20
IF	4892.00	0.62	0.92	10.24
IF	4904.00	0.64	0.94	10.25

IF	4935.00	0.69	0.97	10.28
IF	4972.00	0.74	1.00	10.32
IF	4994.00	0.76	1.02	10.34
IF	5005.00	0.78	1.03	10.35
IF	5034.00	0.82	1.06	10.37
IF	5054.00	0.84	1.07	10.39
IF	5076.00	0.87	1.09	10.41
IF	5090.00	0.88	1.10	10.42
IF	5119.00	0.92	1.12	10.45
IF	5136.00	0.94	1.13	10.46
IF	5166.00	0.97	1.15	10.48
IF	5167.00	0.98	1.15	10.49
IF	5191.00	1.00	1.17	10.50
IF	5198.00	1.01	1.18	10.51
IF	5222.00	1.04	1.19	10.53
IF	5223.00	1.04	1.19	10.53
IF	5250.00	1.06	1.21	10.54
IF	5253.00	1.05	1.21	10.54
IF	5269.70	0.01	1.22	9.81

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

BETWEEN 293.00 AND 392.80

BETWEEN 1945.30 AND 4155.00

BETWEEN 4178.80 AND 4606.10

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
3.30	1.00	9.28
6.60	1.00	9.28
9.80	1.00	9.29
13.10	1.00	9.29
16.40	1.00	9.29
19.70	1.00	9.29
23.00	1.00	9.30
26.20	1.00	9.30
29.50	1.00	9.30
32.80	1.00	9.30
36.10	1.00	9.30
39.40	1.00	9.31
42.70	1.00	9.31
45.90	1.00	9.31
49.20	1.00	9.32
52.50	1.00	9.32
55.80	1.00	9.32
59.10	1.00	9.33
62.30	1.00	9.34
65.60	1.00	9.34
68.90	1.00	9.34
72.20	1.00	9.35
75.50	1.00	9.35
78.70	1.00	9.35
82.00	1.00	9.36
85.30	1.00	9.36
88.60	1.00	9.36
91.90	1.00	9.37
95.10	1.00	9.37
98.40	1.00	9.37
101.70	1.00	9.38
105.00	1.00	9.38
108.30	1.00	9.38
111.50	1.00	9.39
114.80	1.00	9.39
118.10	1.00	9.39
121.40	1.00	9.40
124.70	1.00	9.40
128.00	1.00	9.40
131.20	1.00	9.41
134.50	1.00	9.41
137.80	1.00	9.41
141.10	1.00	9.41
144.40	1.00	9.42
147.60	1.00	9.42
150.90	1.00	9.42
154.20	1.00	9.42
157.50	1.00	9.43
160.80	1.00	9.43
164.00	1.00	9.43
167.30	1.00	9.43
170.60	1.00	9.43
173.90	1.00	9.44
177.20	1.00	9.44
180.40	1.00	9.44
183.70	1.00	9.44
187.00	1.00	9.44
190.30	1.00	9.45
193.60	1.00	9.45
200.10	1.00	9.45
203.40	1.00	9.45
206.70	1.00	9.46
210.00	1.00	9.46
213.30	1.00	9.46
216.50	1.00	9.46
219.80	1.00	9.46
223.10	1.00	9.46
226.40	1.00	9.46
229.70	1.00	9.45
232.90	1.00	9.45
236.20	1.00	9.44
239.50	1.00	9.45
242.80	1.00	9.45
246.10	1.00	9.47
249.30	1.00	9.48
252.60	1.00	9.50
255.90	1.00	9.51
259.20	1.00	9.54
262.50	1.00	9.61
265.70	1.00	9.78
269.00	1.00	9.99
272.30	1.00	10.13
275.60	1.00	10.22
278.90	1.00	10.31
282.20	1.00	10.35

392.80	1.00	9.46
552.00	1.00	9.46
613.00	1.00	9.46
731.00	1.00	9.46
815.00	1.00	9.46
932.00	1.00	9.46
1202.00	1.00	9.46
1279.00	1.00	9.47
1310.00	1.00	9.47
1376.00	1.00	9.47
1444.00	1.00	9.47
1500.00	1.00	9.47
1519.00	1.00	9.47
1554.00	1.00	9.47
1575.00	1.00	9.47
1600.00	1.00	9.48
1618.00	1.00	9.48
1633.00	1.00	9.48
1675.00	1.00	9.48
1712.00	1.00	9.48
1756.00	1.00	9.48
1773.00	1.00	9.48
1783.00	1.00	9.49
1805.00	1.00	9.49
1851.00	1.00	9.49
1879.00	1.00	9.49
1903.00	1.00	9.49
4155.00	1.00	9.80
4606.10	1.00	9.80
4715.00	1.00	9.80
4788.00	1.00	9.80
4820.00	1.00	9.80
4828.00	1.00	9.80
4892.00	1.00	9.80
5076.00	1.00	9.80
5191.00	1.00	9.80

PART5 LOCATION OF V ZONES		
STATION OF GUTTER	LOCATION OF ZONE	
259.25	WINDWARD	
PART6 NUMBERED A ZONES AND V ZONES		
STATION OF GUTTER	ELEVATION	ZONE DESIGNATION FHF
0.00	16.58	
3.30	16.53	V23 EL=17 130
5.53	16.50	V23 EL=17 130
6.60	16.48	V23 EL=16 130
9.80	16.44	V23 EL=16 130
13.10	16.39	V23 EL=16 130
16.40	16.34	V23 EL=16 130
19.70	16.30	V23 EL=16 130
23.00	16.25	V23 EL=16 130
26.20	16.20	V23 EL=16 130
29.50	16.16	V23 EL=16 130
32.80	16.11	V23 EL=16 130
36.10	16.01	V23 EL=16 130
39.40	16.00	V23 EL=16 130
42.70	15.99	V23 EL=16 130
45.90	15.98	V23 EL=16 130
49.20	15.97	V23 EL=16 130
52.50	15.96	V23 EL=16 130
55.80	15.95	V23 EL=16 130
59.10	15.94	V23 EL=16 130
62.30	15.93	V23 EL=16 130
65.60	15.92	V23 EL=16 130
68.90	15.91	V23 EL=16 130
72.20	15.90	V23 EL=16 130
75.50	15.89	V23 EL=16 130
78.70	15.88	V23 EL=16 130
82.00	15.87	V23 EL=16 130
85.30	15.86	V23 EL=16 130
88.60	15.85	V23 EL=16 130
91.90	15.84	V23 EL=16 130
95.10	15.83	V23 EL=16 130
98.40	15.82	V23 EL=16 130
101.70	15.81	V23 EL=16 130
105.00	15.80	V23 EL=16 130
108.30	15.79	V23 EL=16 130

111.50	15.77	V23	EL=16	130
114.80	15.76	V23	EL=16	130
118.10	15.75	V23	EL=16	130
121.40	15.74	V23	EL=16	130
124.70	15.73	V23	EL=16	130
128.00	15.72	V23	EL=16	130
131.20	15.71	V23	EL=16	130
134.50	15.70	V23	EL=16	130
137.80	15.68	V23	EL=16	130
141.10	15.67	V23	EL=16	130
144.40	15.66	V23	EL=16	130
147.60	15.65	V23	EL=16	130
150.90	15.64	V23	EL=16	130
154.20	15.62	V23	EL=16	130
157.50	15.61	V23	EL=16	130
160.80	15.60	V23	EL=16	130
164.00	15.59	V23	EL=16	130
167.30	15.57	V23	EL=16	130
170.60	15.56	V23	EL=16	130
173.90	15.55	V23	EL=16	130
177.20	15.50	V23	EL=16	130
177.33	15.50	V23	EL=16	130
180.40	15.44	V23	EL=15	130
183.70	15.43	V23	EL=15	130
187.00	15.44	V23	EL=15	130
190.30	15.44	V23	EL=15	130
193.60	15.44	V23	EL=15	130
196.80	15.35	V23	EL=15	130
200.10	15.34	V23	EL=15	130
203.40	15.33	V23	EL=15	130
206.70	15.34	V23	EL=15	130
210.00	15.35	V23	EL=15	130
213.30	15.33	V23	EL=15	130
216.50	15.33	V23	EL=15	130
219.80	15.14	V23	EL=15	130
223.10	14.96	V23	EL=15	130
226.40	14.64	V23	EL=15	130
227.95	14.50	V23	EL=14	130
229.70	14.34	V23	EL=14	130
232.90	14.02	V23	EL=14	130
236.20	13.63	V23	EL=14	130
237.64	13.50	V23	EL=14	130
239.50	13.34	V23	EL=13	130
242.80	13.10	V23	EL=13	130
246.10	12.87	V23	EL=13	130
249.30	12.62	V23	EL=13	130
250.65	12.50	V23	EL=12	130
252.60	12.32	V23	EL=12	130
255.90	11.94	V23	EL=12	130
259.20	11.64	V23	EL=12	130
259.25	11.67	A19	EL=12	95
261.31	11.50	A19	EL=11	95
262.50	11.42	A19	EL=11	95
265.70	11.33	A19	EL=11	95
269.00	11.21	A19	EL=11	95

272.30	11.15	A19	EL=11	95
275.60	11.13	A19	EL=11	95
278.90	11.08	A19	EL=11	95
282.20	11.06	A19	EL=11	95
291.58	10.50	A19	EL=11	95
293.00	10.36	A19	EL=10	95
392.80	9.46			
402.22	9.50	A19	EL= 9	95
530.00	9.72	A19	EL=10	95
552.00	9.76	A19	EL=10	95
594.00	9.80	A19	EL=10	95
613.00	9.83	A19	EL=10	95
686.00	9.90	A19	EL=10	95
731.00	9.95	A19	EL=10	95
732.00	9.95	A19	EL=10	95
815.00	10.03	A19	EL=10	95
912.00	10.11	A19	EL=10	95
932.00	10.13	A19	EL=10	95
1189.00	10.31	A19	EL=10	95
1202.00	10.33	A19	EL=10	95
1227.00	10.35	A19	EL=10	95
1279.00	10.39	A19	EL=10	95
1310.00	10.41	A19	EL=10	95
1344.00	10.41	A19	EL=10	95
1376.00	10.43	A19	EL=10	95
1428.00	10.46	A19	EL=10	95
1444.00	10.46	A19	EL=10	95
1468.00	10.48	A19	EL=10	95
1500.00	10.49	A19	EL=10	95
1519.00	10.50	A19	EL=10	95
1524.35	10.50	A19	EL=11	95
1554.00	10.52	A19	EL=11	95
1555.00	10.52	A19	EL=11	95
1575.00	10.52	A19	EL=11	95
1586.00	10.53	A19	EL=11	95
1600.00	10.54	A19	EL=11	95
1618.00	10.56	A19	EL=11	95
1633.00	10.57	A19	EL=11	95
1645.00	10.58	A19	EL=11	95
1675.00	10.60	A19	EL=11	95
1676.00	10.60	A19	EL=11	95
1712.00	10.65	A19	EL=11	95
1719.00	10.64	A19	EL=11	95
1756.00	10.61	A19	EL=11	95
1773.00	10.61	A19	EL=11	95
1783.00	10.63	A19	EL=11	95
1805.00	10.68	A19	EL=11	95
1806.00	10.68	A19	EL=11	95
1851.00	10.74	A19	EL=11	95
1879.00	10.69	A19	EL=11	95
1903.00	10.72	A19	EL=11	95
1930.11	10.50	A19	EL=10	95
1945.29	9.50	A19	EL= 9	95
1945.30	9.50			
4155.00	9.80	A19	EL=10	95
4178.80	9.81			

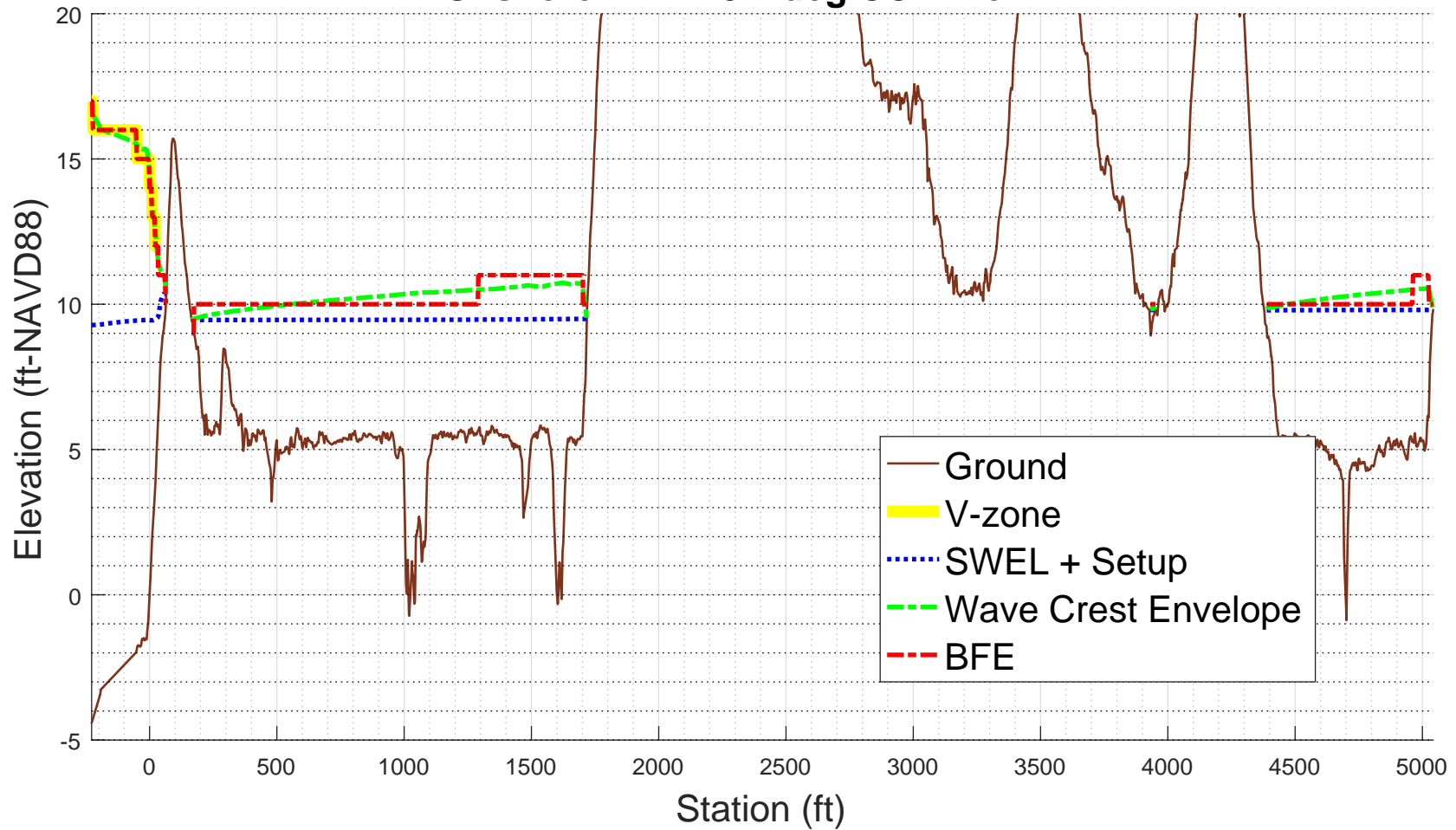
4606.10	9.80			
4701.00	10.01	A19	EL=10	95
4715.00	10.03	A19	EL=10	95
4750.00	10.07	A19	EL=10	95
4788.00	10.12	A19	EL=10	95
4820.00	10.16	A19	EL=10	95
4828.00	10.17	A19	EL=10	95
4854.00	10.20	A19	EL=10	95
4892.00	10.24	A19	EL=10	95
5054.00	10.39	A19	EL=10	95
5076.00	10.41	A19	EL=10	95
5167.00	10.49	A19	EL=10	95
5185.67	10.50	A19	EL=10	95
5191.00	10.50	A19	EL=11	95
5253.95	10.50	A19	EL=11	95
5269.70	9.81	A19	EL=10	95

ZONE TERMINATED AT END OF TRANSECT
PART 7 POSTSCRIPT NOTES

PS# 1 START(364608.9079,4771531.0929)
PS# 2 END(363614.9415,4772913.1221)

-1.000000e+00

YK-15
100-year WHAFIS Output
Zero Station: -70.66384404, 43.08491017
Onshore Dir: 125.7 deg CCW from E



PART 5: RUNUP2

for transect: YK-15

Station locations shifted by: -0.43 feet from their
original location to set the shoreline to
elevation 0 for RUNUP2 input

RUNUP2 INPUT CONVERSIONS

for transect: YK-15

Incident significant wave height: 8.18 feet

Peak wave period: 13.06 seconds

Mean wave height: 5.12 feet

Local Depth below SWEL: 13.70 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 Jersey

USACE (1985), Direct Methods for Calculating Wavelength, CETN-1-17
US Army Engineer Waterways Experiment Station Coastal Engineering
Research Center, Vicksburg, MS

also see Coastal Engineering Manual Part II-3
for discussion of shoaling coefficient

Deep water wavelength, L_0 (m)

$$L_0 = gT^2/\pi$$

$$L_0 = 32.17 \times 11.10^2 / 6.28 = 631.24$$

Deep water wave celerity, C_0 (ft/s)

$$C_0 = L_0/T$$

$$C_0 = 631.24 / 11.10 = 56.85$$

Angular frequency, σ (rad/s)

$$\sigma = \pi/T$$

$$\sigma = 6.28 / 11.10 = 0.57$$

Hunts (1979) approximation for Celerity C_{1H} (ft/s) at Depth D (ft)

$$y = \sigma \cdot \sigma \cdot D / g$$

$$y = 0.57 \times 0.57 \times 13.70 / 32.17 = 0.14$$

$$C_{1H} = \sqrt{g \cdot D / (y + 1 / (1 + 0.6522 \cdot y + 0.4622 \cdot y^2 + 0.0864 \cdot y^4 + 0.0675 \cdot y^5))}$$

$$C_{1H} = 20.51$$

Shoaling Coefficient K_{sH}

$$K_{sH} = \sqrt{C_0 / C_{1H}}$$

$$K_{sH} = \sqrt{56.85 / 20.51} = 1.66$$

Deepwater Wave Height H_{0H} (ft)

$$H_{0H} = H / K_{sH}$$

$$H_{0H} = 5.12 / 1.66 = 3.08$$

Deepwater mean wave height: 3.08 feet

END RUNUP2 CONVERSIONS

RUNUP2 RESULTS

for transect: YK-15

RUNUP2 SWEL:

9.30
9.30
9.30
9.30
9.30
9.30
9.30
9.30
9.30

RUNUP2 deepwater mean wave heights:

2.92

2.92
2.92
3.08
3.08
3.08
3.23
3.23
3.23

RUNUP2 mean wave periods:

10.55
11.10
11.66
10.55
11.10
11.66
10.55
11.10
11.66

RUNUP2 runup above SWEL:

5.41
5.87
6.24
5.77
6.10
6.47
5.98
6.35
6.70

RUNUP2 Mean runup height above SWEL: 6.10 feet

RUNUP2 2-percent runup height above SWEL: 13.42 feet

RUNUP2 2-percent runup elevation: 22.72 feet-NAVD88

RUNUP2 Messages:

No Messages

_____END RUNUP2 RESULTS_____

_____ACES BEACH RUNUP_____

Incident significant wave height: 8.18 feet

Significant wave height deshoaled using Hunt equation

Deepwater significant wave height: 4.31 feet

Peak wave period: 13.06 seconds

Average beach Slope: 1:15.80 (H:V)

ACES RUNUP CALCULATED USING 'Aces_Beach_Runup.m'

ACES Beach 2-percent runup height above SWEL: 7.44 feet

ACES Beach 2-percent runup elevation: 16.74 feet-NAVD88

ACES BEACH RUNUP is valid

_____END ACES BEACH RESULTS_____

PART 5 COMPLETE_____

```
FEMA
RUNUP2 transect: YK-15
5.00
-4.41 -227.6 1.0
-3.42 -193.6 1.0
-3.26 -191.6 1.0
-1.99 -53.6 1.0
-1.74 -45.6 1.0
-1.74 -33.6 1.0
-1.52 -29.6 1.0
-1.49 -11.6 1.0
-0.96 -5.6 1.0
0.76 4.4 1.0
1.86 9.4 1.0
3.93 23.4 1.0
5.05 28.4 1.0
6.50 36.4 1.0
8.23 44.4 1.0
8.92 51.4 1.0
9.73 62.4 1.0
12.55 73.4 1.0
14.17 82.4 1.0
1 15.58 88.4 1.0
9.3 2.92 10.55
9.3 2.92 11.10
9.3 2.92 11.66
9.3 3.08 10.55
9.3 3.08 11.10
9.3 3.08 11.66
9.3 3.23 10.55
9.3 3.23 11.10
9.3 3.23 11.66
```

sjh

job 2
1

CLIENT- FEMA
PROJECT-RUNUP2 transect: YK-15

** WAVE RUNUP-VERSION 2.0 **

ENGINEERED BY sjh

JOB job 2
RUN 1 PAGE 1

CROSS SECTION PROFILE

	LENGTH	ELEV.	SLOPE	ROUGHNESS
1	-227.6	-4.4		
2	-193.6	-3.4	.00	1.00
3	-191.6	-3.3	12.50	1.00
4	-53.6	-2.0	108.66	1.00
5	-45.6	-1.7	32.00	1.00
6	-33.6	-1.7	FLAT	1.00
7	-29.6	-1.5	18.18	1.00
8	-11.6	-1.5	600.00	1.00
9	-5.6	-.9	11.32	1.00
10	4.4	.8	5.81	1.00
11	9.4	1.9	4.55	1.00
12	23.4	3.9	6.76	1.00
13	28.4	5.1	4.46	1.00
14	36.4	6.5	5.52	1.00
15	44.4	8.2	4.62	1.00
16	51.4	8.9	10.14	1.00
17	62.4	9.7	13.58	1.00
18	73.4	12.6	3.90	1.00
19	82.4	14.2	5.56	1.00
20	88.4	15.6	4.26	1.00
	LAST SLOPE		5.00	LAST ROUGHNESS 1.00

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.)
9.30	2.92	10.55	11	19	5.41	4.80
9.30	2.92	11.10	11	19	5.87	4.91
9.30	2.92	11.66	11	19	6.24	5.03
9.30	3.08	10.55	11	19	5.77	5.00
9.30	3.08	11.10	11	19	6.10	5.12
9.30	3.08	11.66	11	20	6.47	5.24
9.30	3.23	10.55	11	19	5.98	5.19
9.30	3.23	11.10	11	20	6.35	5.31
9.30	3.23	11.66	11	20	6.70	5.43

Runup2 2% runup elevation for Transect: YK-15

