Start x: 9350.099565 y: 10049.729622
End x: 9702.482413 y: 10212.402184

Streamline #31

Coordinates of Streamline:
Start x: 9329.283697 y: 10043.682054
End x: 9705.646088 y: 10214.075833

Streamline #32

Coordinates of Streamline:
Start x: 9308.888634 y: 10036.339381
End x: 9698.565280 y: 10213.443374

Streamline #33

Coordinates of Streamline:
Start x: 9288.994866 y: 10027.730579
End x: 9699.824211 y: 10214.268184

Streamline #34

Coordinates of Streamline:
Start x: 9269.680905 y: 10017.889626
End x: 9699.312686 y: 10214.772819

Streamline #35

Coordinates of Streamline:
Start x: 9251.022975 y: 10006.855357
End x: 9695.457197 y: 10215.044226

Streamline #36

Coordinates of Streamline:
Start x: 9233.094709 y: 9994.671322
End x: 9702.601611 y: 10216.157907

Streamline #37

Coordinates of Streamline:
Start x: 9215.966863 y: 9981.385603
End x: 9024.874447 y: 9908.177951

Streamline #38

Coordinates of Streamline:
Start x: 9199.707031 y: 9967.050634
End x: 9022.975071 y: 9887.690516

Streamline #39

Coordinates of Streamline:
Start x: 9184.379385 y: 9951.722989
End x: 9021.047327 y: 9869.401369

Streamline #40

Coordinates of Streamline:
Start x: 9170.044415 y: 9935.463159
End x: 9022.393264 y: 9855.788247

Streamline #41

Coordinates of Streamline:
Start x: 9156.758695 y: 9918.335313
End x: 9025.433926 y: 9844.227014

Streamline #42

Coordinates of Streamline:
Start x: 9144.574657 y: 9900.407048
End x: 9022.777502 y: 9826.965061

Streamline #43

Coordinates of Streamline:
Start x: 9133.540388 y: 9881.749119
End x: 9021.021579 y: 9810.343767

Streamline #44

Coordinates of Streamline:
Start x: 9123.699432 y: 9862.435159
End x: 9020.158809 y: 9794.071575

Streamline #45

Coordinates of Streamline:
Start x: 9115.090630 y: 9842.541392
End x: 9020.230661 y: 9777.981191

Streamline #46

Coordinates of Streamline:
Start x: 9107.747954 y: 9822.146330
End x: 9021.297215 y: 9761.976807

Streamline #47

Coordinates of Streamline:
Start x: 9101.700384 y: 9801.330462
End x: 9023.423948 y: 9746.006855

Streamline #48

Coordinates of Streamline:
Start x: 9096.971787 y: 9780.175940
End x: 9019.624244 y: 9723.507388

Streamline #49

Coordinates of Streamline:
Start x: 9093.580825 y: 9758.766250
End x: 9023.982400 y: 9707.644020

Streamline #50

Coordinates of Streamline:
Start x: 9091.540878 y: 9737.185887
End x: 9022.492774 y: 9685.301506

Streamline #51

Coordinates of Streamline:
Start x: 9090.860000 y: 9715.520018
End x: 9022.219408 y: 9663.083371

Streamline #52

Coordinates of Streamline:
Start x: 9091.540876 y: 9693.854150
End x: 9023.167972 y: 9641.060081

Streamline #53

Coordinates of Streamline:
Start x: 9093.580820 y: 9672.273787
End x: 9025.337411 y: 9619.308160

Streamline #54

Coordinates of Streamline:
Start x: 9096.971780 y: 9650.864097
End x: 9021.874950 y: 9591.152242

Streamline #55

Coordinates of Streamline:
Start x: 9101.700375 y: 9629.709574
End x: 9019.744722 y: 9563.302458

Streamline #56

Coordinates of Streamline:
Start x: 9107.747943 y: 9608.893705
End x: 9025.462944 y: 9542.910153

Streamline #57

Coordinates of Streamline:
Start x: 9115.090616 y: 9588.498642
End x: 9019.277299 y: 9509.013672

Streamline #58

Coordinates of Streamline:
Start x: 9123.699417 y: 9568.604875
End x: 9020.826770 y: 9482.822030

Streamline #59

Coordinates of Streamline:
Start x: 9133.540370 y: 9549.290914
End x: 9023.480167 y: 9457.434986

Streamline #60

Coordinates of Streamline:
Start x: 9144.574638 y: 9530.632983
End x: 9021.285262 y: 9425.375121

Streamline #61

Coordinates of Streamline:
Start x: 9156.758673 y: 9512.704717
End x: 9020.479941 y: 9394.070056

Streamline #62

Coordinates of Streamline:
Start x: 9170.044391 y: 9495.576870
End x: 9020.982722 y: 9363.700664

Streamline #63

Coordinates of Streamline:
Start x: 9184.379359 y: 9479.317038
End x: 9022.692353 y: 9334.471750

Streamline #64

Coordinates of Streamline:
Start x: 9199.707004 y: 9463.989391
End x: 9021.109004 y: 9298.054812

Streamline #65

Coordinates of Streamline:

Start x: 9215.966834 y: 9449.654421
End x: 9025.144372 y: 9271.708865

Streamline #66

Coordinates of Streamline:
Start x: 9233.094679 y: 9436.368700
End x: 9023.101688 y: 9229.397888

Streamline #67

Coordinates of Streamline:
Start x: 9251.022944 y: 9424.184662
End x: 9024.060031 y: 9187.719731

Streamline #68

Coordinates of Streamline:
Start x: 9269.680873 y: 9413.150392
End x: 9202.804446 y: 8634.787332

Streamline #69

Coordinates of Streamline:
Start x: 9288.994833 y: 9403.309436
End x: 9223.410685 y: 8646.197151

Streamline #70

Coordinates of Streamline:
Start x: 9308.888599 y: 9394.700633
End x: 9258.613747 y: 8683.149840

Streamline #71

Coordinates of Streamline:
Start x: 9329.283661 y: 9387.357957
End x: 9331.056263 y: 8745.053474

Streamline #72

Coordinates of Streamline:
Start x: 9350.099529 y: 9381.310387
End x: 9405.923240 y: 8820.461423

Streamline #73

Coordinates of Streamline:
Start x: 9371.254051 y: 9376.581789
End x: 9467.800303 y: 8868.704727

Streamline #74

Coordinates of Streamline:
Start x: 9392.663741 y: 9373.190826
End x: 9507.175546 y: 8900.951477

Streamline #75

Coordinates of Streamline:
Start x: 9414.244104 y: 9371.150879
End x: 9538.635682 y: 8927.933693

Streamline #76

Coordinates of Streamline:
Start x: 9435.909972 y: 9370.470000
End x: 9578.335297 y: 8922.144601

Streamline #77

Coordinates of Streamline:
Start x: 9457.575841 y: 9371.150876
End x: 9616.668510 y: 8929.484795

Streamline #78

Coordinates of Streamline:
Start x: 9479.156204 y: 9373.190819
End x: 9665.909323 y: 8922.827894

Streamline #79

Coordinates of Streamline:
Start x: 9500.565894 y: 9376.581779
End x: 9723.738295 y: 8922.652971

Streamline #80

Coordinates of Streamline:
Start x: 9521.720417 y: 9381.310373
End x: 9804.429935 y: 8925.499453

Streamline #81

Coordinates of Streamline:
Start x: 9542.536286 y: 9387.357940
End x: 9890.077627 y: 8993.971064

Streamline #82

Coordinates of Streamline:
Start x: 9562.931349 y: 9394.700613
End x: 9908.006132 y: 9051.881453

Streamline #83

Coordinates of Streamline:
Start x: 9582.825117 y: 9403.309413
End x: 9921.009023 y: 9094.567265

Streamline #84

Coordinates of Streamline:
Start x: 9602.139078 y: 9413.150365
End x: 9934.578594 y: 9126.115422

Streamline #85

Coordinates of Streamline:
Start x: 9620.797009 y: 9424.184633
End x: 9950.741899 y: 9148.209243

Streamline #86

Coordinates of Streamline:
Start x: 9638.725276 y: 9436.368668
End x: 9953.414710 y: 9170.832434

Streamline #87

Coordinates of Streamline:
Start x: 9655.853123 y: 9449.654385
End x: 9959.895425 y: 9185.760840

Streamline #88

Coordinates of Streamline:
Start x: 9672.112955 y: 9463.989353
End x: 9968.460743 y: 9192.351074

Streamline #89

Coordinates of Streamline:
Start x: 9687.440603 y: 9479.316997
End x: 9975.599351 y: 9200.017549

Streamline #90

Coordinates of Streamline:
Start x: 9701.775573 y: 9495.576827
End x: 9975.312097 y: 9215.260179

Streamline #91

Coordinates of Streamline:
Start x: 9715.061294 y: 9512.704672
End x: 9983.293037 y: 9227.198385

Streamline #92

Coordinates of Streamline:
Start x: 9727.245333 y: 9530.632936
End x: 9998.954414 y: 9235.165116

Streamline #93

Coordinates of Streamline:
Start x: 9738.279604 y: 9549.290865
End x: 10006.260125 y: 9249.923773

Streamline #94

Coordinates of Streamline:
Start x: 9748.120560 y: 9568.604824
End x: 10013.176553 y: 9266.139644

Streamline #95

Coordinates of Streamline:
Start x: 9756.729364 y: 9588.498591
End x: 10027.082696 y: 9277.629542

Streamline #96

Coordinates of Streamline:
Start x: 9764.072040 y: 9608.893653
End x: 10040.302099 y: 9290.196207

Streamline #97

Coordinates of Streamline:
Start x: 9770.119611 y: 9629.709520
End x: 10045.322132 y: 9309.856426

Streamline #98

Coordinates of Streamline:
Start x: 9774.848209 y: 9650.864042
End x: 10057.500158 y: 9325.150154

Streamline #99

Coordinates of Streamline:
Start x: 9778.239173 y: 9672.273732
End x: 10068.621884 y: 9341.654951

Streamline #100

Coordinates of Streamline:

Start x: 9780.279120 y: 9693.854095
End x: 10085.398760 y: 9353.938962

Streamline #101

Coordinates of Streamline:
Start x: 10355.560000 y: 10574.370000
End x: 10335.998461 y: 10257.036676

Streamline #102

Coordinates of Streamline:
Start x: 10354.061714 y: 10598.184567
End x: 10336.498381 y: 10257.788727

Streamline #103

Coordinates of Streamline:
Start x: 10349.590487 y: 10621.623565
End x: 10336.753981 y: 10264.852923

Streamline #104

Coordinates of Streamline:
Start x: 10342.216831 y: 10644.317345
End x: 10337.339800 y: 10264.473688

Streamline #105

Coordinates of Streamline:
Start x: 10332.057033 y: 10665.908014
End x: 10612.620178 y: 10901.585865

Streamline #106

Coordinates of Streamline:
Start x: 10319.271320 y: 10686.055074
End x: 10573.584056 y: 10903.086925

Streamline #107

Coordinates of Streamline:
Start x: 10304.061331 y: 10704.440794
End x: 10524.978572 y: 10902.799230

Streamline #108

Coordinates of Streamline:
Start x: 10286.666934 y: 10720.775219
End x: 10468.733603 y: 10903.037952

Streamline #109

Coordinates of Streamline:
Start x: 10267.362452 y: 10734.800747
End x: 10403.962945 y: 10904.766472

Streamline #110

Coordinates of Streamline:
Start x: 10246.452327 y: 10746.296187
End x: 10328.361368 y: 10906.589552

Streamline #111

Coordinates of Streamline:
Start x: 10224.266323 y: 10755.080247
End x: 10242.940281 y: 10907.528965

Streamline #112

Coordinates of Streamline:
Start x: 10201.154328 y: 10761.014400
End x: 10124.463654 y: 10903.592650

Streamline #113

Coordinates of Streamline:
Start x: 10177.480831 y: 10764.005058
End x: 9754.672040 y: 10201.601086

Streamline #114

Coordinates of Streamline:
Start x: 10153.619179 y: 10764.005059
End x: 9755.601555 y: 10201.564107

Streamline #115

Coordinates of Streamline:
Start x: 10129.945682 y: 10761.014402
End x: 9756.819047 y: 10203.225827

Streamline #116

Coordinates of Streamline:
Start x: 10106.833687 y: 10755.080251
End x: 9757.694800 y: 10201.654066

Streamline #117

Coordinates of Streamline:
Start x: 10084.647683 y: 10746.296191
End x: 9759.243843 y: 10203.948173

Streamline #118

Coordinates of Streamline:
Start x: 10063.737557 y: 10734.800753
End x: 9759.902892 y: 10199.244797

Streamline #119

Coordinates of Streamline:
Start x: 10044.433073 y: 10720.775226
End x: 9760.948334 y: 10196.297987

Streamline #120

Coordinates of Streamline:
Start x: 10027.038676 y: 10704.440801
End x: 9762.464402 y: 10194.667530

Streamline #121

Coordinates of Streamline:
Start x: 10011.828686 y: 10686.055082
End x: 9764.543139 y: 10194.142996

Streamline #122

Coordinates of Streamline:
Start x: 9999.042972 y: 10665.908023
End x: 9767.310698 y: 10194.668485

Streamline #123

Coordinates of Streamline:
Start x: 9988.883173 y: 10644.317355
End x: 9770.943929 y: 10196.292465

Streamline #124

Coordinates of Streamline:
Start x: 9981.509516 y: 10621.623575
End x: 9773.044863 y: 10189.880486

Streamline #125

Coordinates of Streamline:
Start x: 9977.038287 y: 10598.184577
End x: 9779.125434 y: 10194.101316

Streamline #126

Coordinates of Streamline:
Start x: 9975.540000 y: 10574.370010
End x: 9783.878973 y: 10190.533200

Streamline #127

Coordinates of Streamline:
Start x: 9977.038284 y: 10550.555443
End x: 9790.437977 y: 10186.682857

Streamline #128

Coordinates of Streamline:
Start x: 9981.509511 y: 10527.116445
End x: 9800.406221 y: 10182.802709

Streamline #129

Coordinates of Streamline:
Start x: 9988.883166 y: 10504.422664
End x: 9812.588414 y: 10171.392239

Streamline #130

Coordinates of Streamline:
Start x: 9999.042962 y: 10482.831995
End x: 9833.947925 y: 10160.693868

Streamline #131

Coordinates of Streamline:
Start x: 10011.828674 y: 10462.684934
End x: 9861.115156 y: 10152.385000

Streamline #132

Coordinates of Streamline:
Start x: 10027.038662 y: 10444.299214
End x: 9889.053782 y: 10137.687610

Streamline #133

Coordinates of Streamline:
Start x: 10044.433058 y: 10427.964787
End x: 9919.599571 y: 10115.565609

Streamline #134

Coordinates of Streamline:
Start x: 10063.737539 y: 10413.939258
End x: 9957.572562 y: 10094.765342

Streamline #135

Coordinates of Streamline:

Start x: 10084.647664 y: 10402.443818
End x: 9999.306889 y: 10077.753243

Streamline #136

Coordinates of Streamline:
Start x: 10106.833667 y: 10393.659756
End x: 10052.424073 y: 10052.714286

Streamline #137

Coordinates of Streamline:
Start x: 10129.945662 y: 10387.725602
End x: 10117.104573 y: 10014.638282

Streamline #138

Coordinates of Streamline:
Start x: 10153.619158 y: 10384.734942
End x: 10273.593427 y: 9977.206263

Streamline #139

Coordinates of Streamline:
Start x: 10177.480811 y: 10384.734940
End x: 10300.664565 y: 10112.357562

Streamline #140

Coordinates of Streamline:
Start x: 10201.154308 y: 10387.725597
End x: 10310.763874 y: 10161.878337

Streamline #141

Coordinates of Streamline:
Start x: 10224.266304 y: 10393.659746
End x: 10315.560165 y: 10182.378742

Streamline #142

Coordinates of Streamline:
Start x: 10246.452308 y: 10402.443805
End x: 10318.654931 y: 10199.575879

Streamline #143

Coordinates of Streamline:
Start x: 10267.362435 y: 10413.939242
End x: 10322.996255 y: 10213.622464

Streamline #144

Coordinates of Streamline:
Start x: 10286.666919 y: 10427.964768
End x: 10328.579813 y: 10223.441158

Streamline #145

Coordinates of Streamline:
Start x: 10304.061317 y: 10444.299191
End x: 10329.238508 y: 10236.188840

Streamline #146

Coordinates of Streamline:
Start x: 10319.271308 y: 10462.684909
End x: 10331.174890 y: 10244.271135

Streamline #147

Coordinates of Streamline:
Start x: 10332.057023 y: 10482.831968
End x: 10330.778393 y: 10254.577535

Streamline #148

Coordinates of Streamline:
Start x: 10342.216823 y: 10504.422636
End x: 10332.422958 y: 10257.749745

Streamline #149

Coordinates of Streamline:
Start x: 10349.590482 y: 10527.116416
End x: 10333.460400 y: 10262.492583

Streamline #150

Coordinates of Streamline:
Start x: 10354.061712 y: 10550.555412
End x: 10334.912891 y: 10258.982027

Streamline #151

Coordinates of Streamline:
Start x: 11007.700000 y: 10277.950000
End x: 11477.300252 y: 10412.615131

Streamline #152

Coordinates of Streamline:
Start x: 11006.958906 y: 10295.631965
End x: 11470.448434 y: 10415.923658

Streamline #153

Coordinates of Streamline:
Start x: 11004.740823 y: 10313.189903
End x: 11461.582971 y: 10417.758651

Streamline #154

Coordinates of Streamline:
Start x: 11001.061308 y: 10330.500659
End x: 11450.049798 y: 10419.072717

Streamline #155

Coordinates of Streamline:
Start x: 10995.946171 y: 10347.442810
End x: 11444.686572 y: 10423.618323

Streamline #156

Coordinates of Streamline:
Start x: 10989.431291 y: 10363.897519
End x: 11436.555314 y: 10429.453149

Streamline #157

Coordinates of Streamline:
Start x: 10981.562365 y: 10379.749367
End x: 11444.631609 y: 10432.840249

Streamline #158

Coordinates of Streamline:
Start x: 10972.394589 y: 10394.887167
End x: 11449.707043 y: 10435.696941

Streamline #159

Coordinates of Streamline:
Start x: 10961.992266 y: 10409.204736
End x: 11459.627565 y: 10433.281140

Streamline #160

Coordinates of Streamline:
Start x: 10950.428363 y: 10422.601647
End x: 11467.069148 y: 10431.848370

Streamline #161

Coordinates of Streamline:
Start x: 10937.783991 y: 10434.983931
End x: 11472.961907 y: 10432.073100

Streamline #162

Coordinates of Streamline:
Start x: 10924.147842 y: 10446.264735
End x: 11481.812558 y: 10425.515765

Streamline #163

Coordinates of Streamline:
Start x: 10909.615563 y: 10456.364932
End x: 11485.465924 y: 10429.449298

Streamline #164

Coordinates of Streamline:
Start x: 10894.289089 y: 10465.213677
End x: 11491.776155 y: 10426.465674

Streamline #165

Coordinates of Streamline:
Start x: 10878.275922 y: 10472.748901
End x: 11496.994360 y: 10425.511189

Streamline #166

Coordinates of Streamline:
Start x: 10861.688385 y: 10478.917751
End x: 11501.355947 y: 10426.808729

Streamline #167

Coordinates of Streamline:
Start x: 10844.642827 y: 10483.676957
End x: 11507.267062 y: 10421.258545

Streamline #168

Coordinates of Streamline:
Start x: 10827.258810 y: 10486.993136
End x: 11512.094463 y: 10418.443196

Streamline #169

Coordinates of Streamline:
Start x: 10809.658270 y: 10488.843028
End x: 11516.161878 y: 10418.902838

Streamline #170

Coordinates of Streamline:

Start x: 10791.964663 y: 10489.213656
End x: 11520.804884 y: 10413.731775

Streamline #171

Coordinates of Streamline:
Start x: 10774.302096 y: 10488.102422
End x: 11524.707278 y: 10413.343923

Streamline #172

Coordinates of Streamline:
Start x: 10756.794461 y: 10485.517120
End x: 11528.189381 y: 10419.079873

Streamline #173

Coordinates of Streamline:
Start x: 10739.564559 y: 10481.475884
End x: 11532.357124 y: 10413.702467

Streamline #174

Coordinates of Streamline:
Start x: 10722.733247 y: 10476.007060
End x: 11536.195504 y: 10409.963996

Streamline #175

Coordinates of Streamline:
Start x: 10706.418584 y: 10469.149008
End x: 11540.163286 y: 10413.592411

Streamline #176

Coordinates of Streamline:
Start x: 10690.735007 y: 10460.949832
End x: 11543.848351 y: 10408.054832

Streamline #177

Coordinates of Streamline:
Start x: 10675.792522 y: 10451.467044
End x: 10728.029945 y: 10902.767778

Streamline #178

Coordinates of Streamline:
Start x: 10661.695943 y: 10440.767159
End x: 10340.094495 y: 10266.251440

Streamline #179

Coordinates of Streamline:
Start x: 10648.544146 y: 10428.925228
End x: 10343.751865 y: 10264.570690

Streamline #180

Coordinates of Streamline:
Start x: 10636.429381 y: 10416.024314
End x: 10348.016275 y: 10263.965474

Streamline #181

Coordinates of Streamline:
Start x: 10625.436624 y: 10402.154909
End x: 10349.466457 y: 10257.643308

Streamline #182

Coordinates of Streamline:
Start x: 10615.642983 y: 10387.414295
End x: 10349.369912 y: 10250.436183

Streamline #183

Coordinates of Streamline:
Start x: 10607.117152 y: 10371.905868
End x: 10346.151091 y: 10241.304700

Streamline #184

Coordinates of Streamline:
Start x: 10599.918934 y: 10355.738408
End x: 10347.335749 y: 10234.661819

Streamline #185

Coordinates of Streamline:
Start x: 10594.098820 y: 10339.025319
End x: 10343.814176 y: 10225.258864

Streamline #186

Coordinates of Streamline:
Start x: 10589.697633 y: 10321.883830
End x: 10343.584215 y: 10216.728255

Streamline #187

Coordinates of Streamline:
Start x: 10586.746244 y: 10304.434176
End x: 10336.812137 y: 10206.338008

Streamline #188

Coordinates of Streamline:
Start x: 10585.265355 y: 10286.798756
End x: 10332.455728 y: 10196.569331

Streamline #189

Coordinates of Streamline:
Start x: 10585.265354 y: 10269.101267
End x: 10330.536985 y: 10186.613705

Streamline #190

Coordinates of Streamline:
Start x: 10586.746241 y: 10251.465846
End x: 10331.117773 y: 10175.625822

Streamline #191

Coordinates of Streamline:
Start x: 10589.697628 y: 10234.016192
End x: 10325.113045 y: 10164.929153

Streamline #192

Coordinates of Streamline:
Start x: 10594.098813 y: 10216.874703
End x: 10321.116543 y: 10147.916921

Streamline #193

Coordinates of Streamline:
Start x: 10599.918926 y: 10200.161613
End x: 10318.366053 y: 10121.108706

Streamline #194

Coordinates of Streamline:
Start x: 10607.117142 y: 10183.994152
End x: 10309.721629 y: 10092.821007

Streamline #195

Coordinates of Streamline:
Start x: 10615.642971 y: 10168.485724
End x: 10305.325427 y: 10059.833709

Streamline #196

Coordinates of Streamline:
Start x: 10625.436611 y: 10153.745109
End x: 10297.080608 y: 10002.399313

Streamline #197

Coordinates of Streamline:
Start x: 10636.429366 y: 10139.875703
End x: 10321.399576 y: 9920.311262

Streamline #198

Coordinates of Streamline:
Start x: 10648.544129 y: 10126.974788
End x: 10376.171736 y: 9885.222966

Streamline #199

Coordinates of Streamline:
Start x: 10661.695926 y: 10115.132856
End x: 10421.088900 y: 9867.074176

Streamline #200

Coordinates of Streamline:
Start x: 10675.792504 y: 10104.432969
End x: 10463.924049 y: 9844.478676

Streamline #201

Coordinates of Streamline:
Start x: 10690.734987 y: 10094.950179
End x: 10493.911760 y: 9822.483966

Streamline #202

Coordinates of Streamline:
Start x: 10706.418564 y: 10086.751002
End x: 10529.110828 y: 9812.179120

Streamline #203

Coordinates of Streamline:
Start x: 10722.733226 y: 10079.892948
End x: 10564.394564 y: 9794.058553

Streamline #204

Coordinates of Streamline:
Start x: 10739.564537 y: 10074.424122
End x: 10602.607958 y: 9778.254069

Streamline #205

Coordinates of Streamline:

Start x: 10756.794438 y: 10070.382884
End x: 10632.929006 y: 9768.082685

Streamline #206

Coordinates of Streamline:
Start x: 10774.302074 y: 10067.797580
End x: 10662.083790 y: 9760.728862

Streamline #207

Coordinates of Streamline:
Start x: 10791.964640 y: 10066.686344
End x: 10694.152276 y: 9754.693318

Streamline #208

Coordinates of Streamline:
Start x: 10809.658248 y: 10067.056971
End x: 10724.460011 y: 9741.451379

Streamline #209

Coordinates of Streamline:
Start x: 10827.258787 y: 10068.906861
End x: 10753.609836 y: 9740.444233

Streamline #210

Coordinates of Streamline:
Start x: 10844.642805 y: 10072.223038
End x: 10779.516949 y: 9732.435616

Streamline #211

Coordinates of Streamline:
Start x: 10861.688364 y: 10076.982242
End x: 10810.693152 y: 9725.156044

Streamline #212

Coordinates of Streamline:
Start x: 10878.275902 y: 10083.151090
End x: 10843.482240 y: 9710.180803

Streamline #213

Coordinates of Streamline:
Start x: 10894.289069 y: 10090.686313
End x: 10872.803214 y: 9707.962245

Streamline #214

Coordinates of Streamline:
Start x: 10909.615544 y: 10099.535056
End x: 10899.550486 y: 9699.891975

Streamline #215

Coordinates of Streamline:
Start x: 10924.147824 y: 10109.635251
End x: 10939.547558 y: 9693.097464

Streamline #216

Coordinates of Streamline:
Start x: 10937.783974 y: 10120.916054
End x: 10980.709494 y: 9674.590899

Streamline #217

Coordinates of Streamline:
Start x: 10950.428347 y: 10133.298337
End x: 11059.233800 y: 9494.842706

Streamline #218

Coordinates of Streamline:
Start x: 10961.992252 y: 10146.695247
End x: 11558.503754 y: 10393.204810

Streamline #219

Coordinates of Streamline:
Start x: 10972.394576 y: 10161.012815
End x: 11545.212401 y: 10403.330032

Streamline #220

Coordinates of Streamline:
Start x: 10981.562355 y: 10176.150613
End x: 11530.196221 y: 10398.494856

Streamline #221

Coordinates of Streamline:
Start x: 10989.431282 y: 10192.002461
End x: 11520.761803 y: 10402.202991

Streamline #222

Coordinates of Streamline:
Start x: 10995.946164 y: 10208.457169
End x: 11514.874266 y: 10409.270646

Streamline #223

Coordinates of Streamline:
Start x: 11001.061302 y: 10225.399319
End x: 11501.962197 y: 10405.473526

Streamline #224

Coordinates of Streamline:
Start x: 11004.740819 y: 10242.710074
End x: 11493.118908 y: 10407.317718

Streamline #225

Coordinates of Streamline:
Start x: 11006.958904 y: 10260.268013
End x: 11489.406026 y: 10414.237061

Streamline #226

Coordinates of Streamline:
Start x: 10354.380000 y: 9670.660000
End x: 10351.844434 y: 9891.350979

Streamline #227

Coordinates of Streamline:
Start x: 10372.634737 y: 9670.203684
End x: 10368.339027 y: 9878.564416

Streamline #228

Coordinates of Streamline:
Start x: 10390.889474 y: 9669.747368
End x: 10390.255646 y: 9863.954565

Streamline #229

Coordinates of Streamline:
Start x: 10409.144211 y: 9669.291053
End x: 10419.991808 y: 9856.099124

Streamline #230

Coordinates of Streamline:
Start x: 10427.398947 y: 9668.834737
End x: 10447.503239 y: 9837.107580

Streamline #231

Coordinates of Streamline:
Start x: 10445.653684 y: 9668.378421
End x: 10472.596968 y: 9827.471194

Streamline #232

Coordinates of Streamline:
Start x: 10463.908421 y: 9667.922105
End x: 10492.421222 y: 9818.151038

Streamline #233

Coordinates of Streamline:
Start x: 10482.163158 y: 9667.465789
End x: 10510.355413 y: 9808.366868

Streamline #234

Coordinates of Streamline:
Start x: 10500.417895 y: 9667.009474
End x: 10526.595829 y: 9798.588319

Streamline #235

Coordinates of Streamline:
Start x: 10518.672632 y: 9666.553158
End x: 10541.817865 y: 9788.833669

Streamline #236

Coordinates of Streamline:
Start x: 10536.927368 y: 9666.096842
End x: 10557.062143 y: 9778.988717

Streamline #237

Coordinates of Streamline:
Start x: 10555.182105 y: 9665.640526
End x: 10577.523687 y: 9777.782822

Streamline #238

Coordinates of Streamline:
Start x: 10573.436842 y: 9665.184211
End x: 10595.241556 y: 9768.228417

Streamline #239

Coordinates of Streamline:
Start x: 10591.691579 y: 9664.727895
End x: 10619.897367 y: 9766.618843

Streamline #240

Coordinates of Streamline:

Start x: 10609.946316 y: 9664.271579
End x: 10642.728666 y: 9754.663767

Streamline #241

Coordinates of Streamline:
Start x: 10628.201053 y: 9663.815263
End x: 10666.719094 y: 9751.567241

Streamline #242

Coordinates of Streamline:
Start x: 10646.455789 y: 9663.358947
End x: 10686.352927 y: 9739.581930

Streamline #243

Coordinates of Streamline:
Start x: 10664.710526 y: 9662.902632
End x: 10705.583517 y: 9738.402211

Streamline #244

Coordinates of Streamline:
Start x: 10682.965263 y: 9662.446316
End x: 10719.199623 y: 9729.721583

Streamline #245

Coordinates of Streamline:
Start x: 10701.220000 y: 9661.990000
End x: 10734.278082 y: 9731.110228

Streamline #246

Coordinates of Streamline:
Start x: 10347.310000 y: 9655.650000
End x: 10327.776205 y: 9905.017560

Streamline #247

Coordinates of Streamline:
Start x: 10347.132222 y: 9639.976667
End x: 10187.758156 y: 9405.992688

Streamline #248

Coordinates of Streamline:
Start x: 10346.954444 y: 9624.303333
End x: 10198.237733 y: 9399.537104

Streamline #249

Coordinates of Streamline:
Start x: 10346.776667 y: 9608.630000
End x: 10211.074243 y: 9395.584033

Streamline #250

Coordinates of Streamline:
Start x: 10346.598889 y: 9592.956667
End x: 10227.324961 y: 9398.250247

Streamline #251

Coordinates of Streamline:
Start x: 10346.421111 y: 9577.283333
End x: 10247.617942 y: 9395.139452

Streamline #252

Coordinates of Streamline:
Start x: 10346.243333 y: 9561.610000
End x: 10264.889327 y: 9395.978729

Streamline #253

Coordinates of Streamline:
Start x: 10346.065556 y: 9545.936667
End x: 10280.289243 y: 9390.602038

Streamline #254

Coordinates of Streamline:
Start x: 10345.887778 y: 9530.263333
End x: 10293.877509 y: 9387.978161

Streamline #255

Coordinates of Streamline:
Start x: 10345.710000 y: 9514.590000
End x: 10305.432722 y: 9387.399171

Streamline #256

Coordinates of Streamline:
Start x: 10357.460000 y: 9511.510000
End x: 10320.661729 y: 9393.000053

Streamline #257

Coordinates of Streamline:
Start x: 10373.856000 y: 9511.825500
End x: 10338.537236 y: 9382.841078

Streamline #258

Coordinates of Streamline:
Start x: 10390.252000 y: 9512.141000
End x: 10362.363205 y: 9381.412442

Streamline #259

Coordinates of Streamline:
Start x: 10406.648000 y: 9512.456500
End x: 10385.993930 y: 9389.472728

Streamline #260

Coordinates of Streamline:
Start x: 10423.044000 y: 9512.772000
End x: 10411.389215 y: 9388.331085

Streamline #261

Coordinates of Streamline:
Start x: 10439.440000 y: 9513.087500
End x: 10437.390310 y: 9388.088047

Streamline #262

Coordinates of Streamline:
Start x: 10455.836000 y: 9513.403000
End x: 10463.415089 y: 9388.713418

Streamline #263

Coordinates of Streamline:
Start x: 10472.232000 y: 9513.718500
End x: 10486.349267 y: 9389.697680

Streamline #264

Coordinates of Streamline:
Start x: 10488.628000 y: 9514.034000
End x: 10505.228066 y: 9390.374638

Streamline #265

Coordinates of Streamline:
Start x: 10505.024000 y: 9514.349500
End x: 10522.120862 y: 9390.743554

Streamline #266

Coordinates of Streamline:
Start x: 10521.420000 y: 9514.665000
End x: 10537.926584 y: 9390.936348

Streamline #267

Coordinates of Streamline:
Start x: 10537.816000 y: 9514.980500
End x: 10553.364878 y: 9391.105253

Streamline #268

Coordinates of Streamline:
Start x: 10554.212000 y: 9515.296000
End x: 10569.356918 y: 9391.368475

Streamline #269

Coordinates of Streamline:
Start x: 10570.608000 y: 9515.611500
End x: 10586.855059 y: 9391.793357

Streamline #270

Coordinates of Streamline:
Start x: 10587.004000 y: 9515.927000
End x: 10604.824885 y: 9392.380016

Streamline #271

Coordinates of Streamline:
Start x: 10603.400000 y: 9516.242500
End x: 10623.406322 y: 9393.159639

Streamline #272

Coordinates of Streamline:
Start x: 10619.796000 y: 9516.558000
End x: 10642.115763 y: 9384.501374

Streamline #273

Coordinates of Streamline:
Start x: 10636.192000 y: 9516.873500
End x: 10660.362069 y: 9385.616563

Streamline #274

Coordinates of Streamline:
Start x: 10652.588000 y: 9517.189000
End x: 10680.848255 y: 9386.740215

Streamline #275

Coordinates of Streamline:

Start x: 10668.984000 y: 9517.504500
End x: 10701.582569 y: 9387.911451

Streamline #276

Coordinates of Streamline:
Start x: 10685.380000 y: 9517.820000
End x: 10721.992854 y: 9379.430061

Streamline #277

Coordinates of Streamline:
Start x: 10711.330000 y: 9650.390000
End x: 10746.995360 y: 9728.968469

Streamline #278

Coordinates of Streamline:
Start x: 10709.506667 y: 9636.256667
End x: 10750.779785 y: 9722.467923

Streamline #279

Coordinates of Streamline:
Start x: 10707.683333 y: 9622.123333
End x: 10765.547779 y: 9725.637865

Streamline #280

Coordinates of Streamline:
Start x: 10705.860000 y: 9607.990000
End x: 10817.047799 y: 9397.297206

Streamline #281

Coordinates of Streamline:
Start x: 10704.036667 y: 9593.856667
End x: 10804.599502 y: 9398.719226

Streamline #282

Coordinates of Streamline:
Start x: 10702.213333 y: 9579.723333
End x: 10793.338357 y: 9390.535969

Streamline #283

Coordinates of Streamline:
Start x: 10700.390000 y: 9565.590000
End x: 10777.865594 y: 9391.101948

Streamline #284

Coordinates of Streamline:
Start x: 10698.566667 y: 9551.456667
End x: 10763.840108 y: 9382.402726

Streamline #285

Coordinates of Streamline:
Start x: 10696.743333 y: 9537.323333
End x: 10749.122435 y: 9383.847379

Streamline #286

Coordinates of Streamline:
Start x: 10694.920000 y: 9523.190000
End x: 10736.544563 y: 9386.099415

Streamline #287

Coordinates of Streamline:
Start x: 12147.160000 y: 9811.730000

Streamline #288

Coordinates of Streamline:
Start x: 12144.733249 y: 9842.564797

Streamline #289

Coordinates of Streamline:
Start x: 12137.512750 y: 9872.640339

Streamline #290

Coordinates of Streamline:
Start x: 12125.676297 y: 9901.216066

Streamline #291

Coordinates of Streamline:
Start x: 12109.515341 y: 9927.588349

Streamline #292

Coordinates of Streamline:
Start x: 12089.427820 y: 9951.107816

Streamline #293

Coordinates of Streamline:
Start x: 12065.908354 y: 9971.195338

Streamline #294

Coordinates of Streamline:
Start x: 12039.536071 y: 9987.356294

Streamline #295

Coordinates of Streamline:
Start x: 12010.960344 y: 9999.192749

Streamline #296

Coordinates of Streamline:
Start x: 11980.884802 y: 10006.413248

Streamline #297

Coordinates of Streamline:
Start x: 11950.050005 y: 10008.840000

Streamline #298

Coordinates of Streamline:
Start x: 11919.215208 y: 10006.413250

Streamline #299

Coordinates of Streamline:
Start x: 11889.139666 y: 9999.192752
End x: 11710.657785 y: 10280.127465

Streamline #300

Coordinates of Streamline:
Start x: 11860.563939 y: 9987.356299
End x: 11697.307482 y: 10362.374735

Streamline #301

Coordinates of Streamline:
Start x: 11834.191655 y: 9971.195344
End x: 11636.903752 y: 10078.816067

Streamline #302

Coordinates of Streamline:
Start x: 11810.672188 y: 9951.107823
End x: 11628.995108 y: 10045.388266

Streamline #303

Coordinates of Streamline:
Start x: 11790.584665 y: 9927.588358
End x: 11618.732208 y: 10009.603063

Streamline #304

Coordinates of Streamline:
Start x: 11774.423708 y: 9901.216075
End x: 11615.263467 y: 9968.356107

Streamline #305

Coordinates of Streamline:
Start x: 11762.587253 y: 9872.640349
End x: 11608.058245 y: 9925.935329

Streamline #306

Coordinates of Streamline:
Start x: 11755.366753 y: 9842.564807
End x: 11597.329866 y: 9884.349853

Streamline #307

Coordinates of Streamline:
Start x: 11752.940000 y: 9811.730011
End x: 11582.195723 y: 9839.133713

Streamline #308

Coordinates of Streamline:
Start x: 11755.366749 y: 9780.895214
End x: 11573.436457 y: 9787.548224

Streamline #309

Coordinates of Streamline:
Start x: 11762.587246 y: 9750.819671
End x: 11555.071762 y: 9721.234424

Streamline #310

Coordinates of Streamline:
Start x: 11774.423699 y: 9722.243943
End x: 11564.943471 y: 9525.420638

Streamline #311

Coordinates of Streamline:
Start x: 11790.584653 y: 9695.871659
End x: 11656.532908 y: 9499.466676

Streamline #312

Coordinates of Streamline:

Start x: 11810.672173 y: 9672.352192
End x: 11718.887919 y: 9482.665543

Streamline #313

Coordinates of Streamline:
Start x: 11834.191638 y: 9652.264668
End x: 11768.644692 y: 9471.615705

Streamline #314

Coordinates of Streamline:
Start x: 11860.563920 y: 9636.103710
End x: 11814.915556 y: 9459.206396

Streamline #315

Coordinates of Streamline:
Start x: 11889.139646 y: 9624.267255
End x: 11855.771809 y: 9444.626601

Streamline #316

Coordinates of Streamline:
Start x: 11919.215187 y: 9617.046754

Streamline #317

Coordinates of Streamline:
Start x: 11950.049984 y: 9614.620000

Streamline #318

Coordinates of Streamline:
Start x: 11980.884781 y: 9617.046749

Streamline #319

Coordinates of Streamline:
Start x: 12010.960324 y: 9624.267245

Streamline #320

Coordinates of Streamline:
Start x: 12039.536052 y: 9636.103696

Streamline #321

Coordinates of Streamline:
Start x: 12065.908337 y: 9652.264650

Streamline #322

Coordinates of Streamline:
Start x: 12089.427805 y: 9672.352169

Streamline #323

Coordinates of Streamline:
Start x: 12109.515329 y: 9695.871634

Streamline #324

Coordinates of Streamline:
Start x: 12125.676287 y: 9722.243915

Streamline #325

Coordinates of Streamline:
Start x: 12137.512744 y: 9750.819641

Streamline #326

Coordinates of Streamline:
Start x: 12144.733246 y: 9780.895182

Streamline #327

Coordinates of Streamline:
Start x: 10732.370000 y: 9600.970000
End x: 10828.603757 y: 9402.291037

Streamline #328

Coordinates of Streamline:
Start x: 10757.375556 y: 9607.478889
End x: 10879.903421 y: 9426.060014

Streamline #329

Coordinates of Streamline:
Start x: 10782.381111 y: 9613.987778
End x: 10923.617089 y: 9442.859160

Streamline #330

Coordinates of Streamline:
Start x: 10807.386667 y: 9620.496667
End x: 10943.557124 y: 9447.845198

Streamline #331

Coordinates of Streamline:
Start x: 10832.392222 y: 9627.005556
End x: 10954.705372 y: 9452.409340

Streamline #332

Coordinates of Streamline:
Start x: 10857.397778 y: 9633.514444
End x: 10960.715026 y: 9464.868005

Streamline #333

Coordinates of Streamline:
Start x: 10882.403333 y: 9640.023333
End x: 10972.659399 y: 9460.820017

Streamline #334

Coordinates of Streamline:
Start x: 10907.408889 y: 9646.532222
End x: 10980.008144 y: 9468.459382

Streamline #335

Coordinates of Streamline:
Start x: 10932.414444 y: 9653.041111
End x: 10991.382677 y: 9470.211526

Streamline #336

Coordinates of Streamline:
Start x: 10957.420000 y: 9659.550000
End x: 11003.609673 y: 9473.857492

Streamline #337

Coordinates of Streamline:
Start x: 11111.570000 y: 10085.000000
End x: 11560.514378 y: 10397.349644

Streamline #338

Coordinates of Streamline:
Start x: 11110.081724 y: 10081.810690
End x: 11560.707889 y: 10392.545195

Streamline #339

Coordinates of Streamline:
Start x: 11108.593448 y: 10078.621379
End x: 11563.790236 y: 10394.641858

Streamline #340

Coordinates of Streamline:
Start x: 11107.105172 y: 10075.432069
End x: 11568.864069 y: 10391.982222

Streamline #341

Coordinates of Streamline:
Start x: 11105.616897 y: 10072.242759
End x: 11580.336603 y: 10389.224940

Streamline #342

Coordinates of Streamline:
Start x: 11104.128621 y: 10069.053448
End x: 11618.984416 y: 10381.450424

Streamline #343

Coordinates of Streamline:
Start x: 11102.640345 y: 10065.864138
End x: 11615.897487 y: 10018.370719

Streamline #344

Coordinates of Streamline:
Start x: 11101.152069 y: 10062.674828
End x: 11347.090343 y: 9850.694249

Streamline #345

Coordinates of Streamline:
Start x: 11099.663793 y: 10059.485517
End x: 11346.340397 y: 9873.768444

Streamline #346

Coordinates of Streamline:
Start x: 11098.175517 y: 10056.296207
End x: 11336.927208 y: 9869.164886

Streamline #347

Coordinates of Streamline:
Start x: 11096.687241 y: 10053.106897
End x: 11335.780676 y: 9856.124660

Streamline #348

Coordinates of Streamline:
Start x: 11095.198966 y: 10049.917586
End x: 11334.273685 y: 9847.063358

Streamline #349

Coordinates of Streamline:
Start x: 11093.710690 y: 10046.728276
End x: 11331.939809 y: 9839.833639

Streamline #350

Coordinates of Streamline:
Start x: 11092.222414 y: 10043.538966
End x: 11328.833135 y: 9833.578454

Streamline #351

Coordinates of Streamline:
Start x: 11090.734138 y: 10040.349655
End x: 11333.669836 y: 9823.643846

Streamline #352

Coordinates of Streamline:
Start x: 11089.245862 y: 10037.160345
End x: 11329.356483 y: 9818.530235

Streamline #353

Coordinates of Streamline:
Start x: 11087.757586 y: 10033.971034
End x: 11324.322612 y: 9813.359356

Streamline #354

Coordinates of Streamline:
Start x: 11086.269310 y: 10030.781724
End x: 11327.835220 y: 9805.444734

Streamline #355

Coordinates of Streamline:
Start x: 11084.781034 y: 10027.592414
End x: 11321.288643 y: 9799.658765

Streamline #356

Coordinates of Streamline:
Start x: 11083.292759 y: 10024.403103
End x: 11323.259101 y: 9791.217786

Streamline #357

Coordinates of Streamline:
Start x: 11081.804483 y: 10021.213793
End x: 11324.061418 y: 9779.691853

Streamline #358

Coordinates of Streamline:
Start x: 11080.316207 y: 10018.024483
End x: 11314.715118 y: 9770.558658

Streamline #359

Coordinates of Streamline:
Start x: 11078.827931 y: 10014.835172
End x: 11313.731193 y: 9758.711640

Streamline #360

Coordinates of Streamline:
Start x: 11077.339655 y: 10011.645862
End x: 11311.430978 y: 9746.005224

Streamline #361

Coordinates of Streamline:
Start x: 11075.851379 y: 10008.456552
End x: 11307.339414 y: 9732.113215

Streamline #362

Coordinates of Streamline:
Start x: 11074.363103 y: 10005.267241
End x: 11310.066088 y: 9715.014390

Streamline #363

Coordinates of Streamline:
Start x: 11072.874828 y: 10002.077931
End x: 11298.097919 y: 9690.998819

Streamline #364

Coordinates of Streamline:
Start x: 11071.386552 y: 9998.888621
End x: 11295.986969 y: 9655.995022

Streamline #365

Coordinates of Streamline:
Start x: 11069.898276 y: 9995.699310
End x: 11282.225183 y: 9633.056732

Streamline #366

Coordinates of Streamline:
Start x: 11068.410000 y: 9992.510000
End x: 11098.770274 y: 9516.593586

Streamline #367

Coordinates of Streamline:
Start x: 10227.400000 y: 9761.290000
End x: 10302.896610 y: 9916.963075

Streamline #368

Coordinates of Streamline:
Start x: 10224.825787 y: 9785.781997
End x: 10291.816506 y: 9913.359875

Streamline #369

Coordinates of Streamline:
Start x: 10217.215655 y: 9809.203576
End x: 10282.629678 y: 9926.555567

Streamline #370

Coordinates of Streamline:
Start x: 10204.902203 y: 9830.531102
End x: 10265.147503 y: 9928.736034

Streamline #371

Coordinates of Streamline:
Start x: 10188.423587 y: 9848.832459
End x: 10245.929212 y: 9937.460679

Streamline #372

Coordinates of Streamline:
Start x: 10168.500002 y: 9863.307792
End x: 10227.021930 y: 9951.335819

Streamline #373

Coordinates of Streamline:
Start x: 10146.002204 y: 9873.324457
End x: 10204.783757 y: 9961.236415

Streamline #374

Coordinates of Streamline:
Start x: 10121.913456 y: 9878.444679
End x: 10184.783473 y: 9975.164849

Streamline #375

Coordinates of Streamline:
Start x: 10097.286550 y: 9878.444680
End x: 10163.723775 y: 9984.191946

Streamline #376

Coordinates of Streamline:
Start x: 10073.197802 y: 9873.324459
End x: 10144.250667 y: 9987.299248

Streamline #377

Coordinates of Streamline:
Start x: 10050.700004 y: 9863.307795
End x: 10133.417455 y: 9992.421897

Streamline #378

Coordinates of Streamline:
Start x: 10030.776418 y: 9848.832464
End x: 10131.387520 y: 10000.230526

Streamline #379

Coordinates of Streamline:
Start x: 10014.297801 y: 9830.531107
End x: 10131.439432 y: 9993.184963

Streamline #380

Coordinates of Streamline:
Start x: 10001.984347 y: 9809.203582
End x: 10143.696326 y: 9987.706418

Streamline #381

Coordinates of Streamline:
Start x: 9994.374214 y: 9785.782003
End x: 10173.860327 y: 9978.961825

Streamline #382

Coordinates of Streamline:
Start x: 9991.800000 y: 9761.290006
End x: 10223.889787 y: 9956.458924

Streamline #383

Coordinates of Streamline:
Start x: 9994.374211 y: 9736.798009
End x: 10170.059651 y: 9403.356836

Streamline #384

Coordinates of Streamline:
Start x: 10001.984342 y: 9713.376430
End x: 10148.759883 y: 9407.120360

Streamline #385

Coordinates of Streamline:
Start x: 10014.297794 y: 9692.048903
End x: 10140.984095 y: 9408.544455

Streamline #386

Coordinates of Streamline:
Start x: 10030.776409 y: 9673.747545
End x: 10138.872420 y: 9409.865612

Streamline #387

Coordinates of Streamline:
Start x: 10050.699993 y: 9659.272212
End x: 10141.260536 y: 9407.742925

Streamline #388

Coordinates of Streamline:
Start x: 10073.197790 y: 9649.255545
End x: 10145.849406 y: 9411.277754

Streamline #389

Coordinates of Streamline:
Start x: 10097.286538 y: 9644.135322
End x: 10153.209721 y: 9411.199216

Streamline #390

Coordinates of Streamline:
Start x: 10121.913443 y: 9644.135320
End x: 10161.890828 y: 9407.711427

Streamline #391

Coordinates of Streamline:
Start x: 10146.002192 y: 9649.255539
End x: 10170.245776 y: 9400.842057

Streamline #392

Coordinates of Streamline:
Start x: 10168.499991 y: 9659.272202
End x: 10177.165776 y: 9400.032980

Streamline #393

Coordinates of Streamline:
Start x: 10188.423577 y: 9673.747532
End x: 10182.237430 y: 9404.883587

Streamline #394

Coordinates of Streamline:
Start x: 10204.902195 y: 9692.048888
End x: 10184.974039 y: 9405.815533

Streamline #395

Coordinates of Streamline:
Start x: 10217.215650 y: 9713.376413
End x: 10308.968913 y: 9914.293667

Streamline #396

Coordinates of Streamline:
Start x: 10224.825785 y: 9736.797991
End x: 10305.689239 y: 9911.267309

Streamline #397

Coordinates of Streamline:
Start x: 11397.880000 y: 10128.120000
End x: 11629.434358 y: 10377.669174

Streamline #398

Coordinates of Streamline:
Start x: 11397.093793 y: 10122.616207
End x: 11634.270382 y: 10376.511519

Streamline #399

Coordinates of Streamline:
Start x: 11396.307586 y: 10117.112414
End x: 11638.939113 y: 10374.648870

Streamline #400

Coordinates of Streamline:
Start x: 11395.521379 y: 10111.608621
End x: 11643.308286 y: 10371.728953

Streamline #401

Coordinates of Streamline:
Start x: 11394.735172 y: 10106.104828
End x: 11650.261653 y: 10375.691069

Streamline #402

Coordinates of Streamline:
Start x: 11393.948966 y: 10100.601034
End x: 11655.544307 y: 10373.730178

Streamline #403

Coordinates of Streamline:
Start x: 11393.162759 y: 10095.097241
End x: 11626.004406 y: 10062.057480

Streamline #404

Coordinates of Streamline:
Start x: 11392.376552 y: 10089.593448
End x: 11621.027213 y: 10061.483566

Streamline #405

Coordinates of Streamline:
Start x: 11391.590345 y: 10084.089655
End x: 11618.601829 y: 10057.687475

Streamline #406

Coordinates of Streamline:
Start x: 11390.804138 y: 10078.585862
End x: 11622.008306 y: 10048.991708

Streamline #407

Coordinates of Streamline:
Start x: 11390.017931 y: 10073.082069
End x: 11616.637439 y: 10046.421382

Streamline #408

Coordinates of Streamline:
Start x: 11389.231724 y: 10067.578276
End x: 11618.564203 y: 10038.618517

Streamline #409

Coordinates of Streamline:
Start x: 11388.445517 y: 10062.074483
End x: 11620.085533 y: 10030.980623

Streamline #410

Coordinates of Streamline:
Start x: 11387.659310 y: 10056.570690
End x: 11612.302287 y: 10026.960426

Streamline #411

Coordinates of Streamline:
Start x: 11386.873103 y: 10051.066897
End x: 11612.726312 y: 10018.439623

Streamline #412

Coordinates of Streamline:
Start x: 11386.086897 y: 10045.563103
End x: 11612.652885 y: 10009.472768

Streamline #413

Coordinates of Streamline:
Start x: 11385.300690 y: 10040.059310
End x: 11612.002276 y: 9999.886474

Streamline #414

Coordinates of Streamline:
Start x: 11384.514483 y: 10034.555517
End x: 11610.686562 y: 9989.512500

Streamline #415

Coordinates of Streamline:
Start x: 11383.728276 y: 10029.051724
End x: 11608.590656 y: 9978.182242

Streamline #416

Coordinates of Streamline:
Start x: 11382.942069 y: 10023.547931
End x: 11603.547622 y: 9959.140082

Streamline #417

Coordinates of Streamline:
Start x: 11382.155862 y: 10018.044138
End x: 11600.530788 y: 9945.987313

Streamline #418

Coordinates of Streamline:
Start x: 11381.369655 y: 10012.540345
End x: 11595.389326 y: 9930.503719

Streamline #419

```
      Coordinates of Streamline:
        Start  x: 11380.583448   y: 10007.036552
        End    x: 11588.463420   y: 9913.130166

 Streamline #420

      Coordinates of Streamline:
        Start  x: 11379.797241   y: 10001.532759
        End    x: 11578.857479   y: 9893.110424

 Streamline #421

      Coordinates of Streamline:
        Start  x: 11379.011034   y: 9996.028966
        End    x: 11573.832129   y: 9867.073918

 Streamline #422

      Coordinates of Streamline:
        Start  x: 11378.224828   y: 9990.525172
        End    x: 11563.667722   y: 9824.075825

 Streamline #423

      Coordinates of Streamline:
        Start  x: 11377.438621   y: 9985.021379
        End    x: 11339.807002   y: 9823.586898

 Streamline #424

      Coordinates of Streamline:
        Start  x: 11376.652414   y: 9979.517586
        End    x: 11342.969853   y: 9831.875737

 Streamline #425

      Coordinates of Streamline:
        Start  x: 11375.866207   y: 9974.013793
        End    x: 11349.439883   y: 9838.194726

 Streamline #426

      Coordinates of Streamline:
        Start  x: 11375.080000   y: 9968.510000
        End    x: 11351.344439   y: 9842.865700
================================================================
==========

                                Particle Traces



Number of Particle-traces = 0
```

APPENDIX C-2

GROUNDWATER MODELING OF REMEDIAL ALTERNATIVES – AREA BCE

Area BCE Extraction Wells
Modeling Summary

WinFlow
Analytical Model of 2D Ground-Water Flow

Developed by

James O. Rumbaugh, III

Douglas B. Rumbaugh

(c) 1995 Environmental Simulations, Inc.

Date: 10/19/99
Time: 16:46:34.00

Input File: PND4-1C2.WFL
Map File : C:\WINFLOW\BCC\CURRENT\BCCCLEAN.MAP

Model Entities

Number of Linesinks Defined by Infiltration Rate = 0

Number of Linesinks Defined by Head = 81

Line Sink #1
x1: 9455.809570 y1: 8852.379883
x2: 9532.019531 y2: 8919.309570
Discharge per length = 0.001110
Head in Center of Linesink = 573.999207
Total Linesink Discharge = 0.112584 [L3/T]

Line Sink #2
x1: 9758.330078 y1: 8921.110352
x2: 9856.000000 y2: 8920.000000
Discharge per length = 0.000275
Head in Center of Linesink = 573.999878
Total Linesink Discharge = 0.026884 [L3/T]

Line Sink #3
x1: 9933.679688 y1: 9097.740234
x2: 9962.000000 y2: 9176.000000
Discharge per length = 0.000678
Head in Center of Linesink = 574.000000
Total Linesink Discharge = 0.056455 [L3/T]

Line Sink #4
x1: 10070.490234 y1: 9330.889648
x2: 10125.000000 y2: 9402.000000
Discharge per length = 0.000794
Head in Center of Linesink = 573.999939
Total Linesink Discharge = 0.071138 [L3/T]

Line Sink #5
x1: 10243.269531 y1: 9391.910156
x2: 10352.000000 y2: 9380.000000
Discharge per length = 0.001185
Head in Center of Linesink = 573.999512
Total Linesink Discharge = 0.129582 [L3/T]

Line Sink #6
x1: 10466.790039 y1: 9379.070313
x2: 10570.000000 y2: 9384.000000
Discharge per length = 0.001902
Head in Center of Linesink = 573.999939
Total Linesink Discharge = 0.196526 [L3/T]

Line Sink #7
x1: 10676.169922 y1: 9380.349609
x2: 10766.000000 y2: 9374.000000
Discharge per length = 0.001018
Head in Center of Linesink = 573.999451
Total Linesink Discharge = 0.091694 [L3/T]

Line Sink #8
x1: 10958.150391 y1: 9452.929688
x2: 11058.000000 y2: 9493.280273
Discharge per length = 0.000869
Head in Center of Linesink = 574.000000
Total Linesink Discharge = 0.093572 [L3/T]

Line Sink #9
x1: 11164.320313 y1: 9533.219727
x2: 11264.900391 y2: 9559.000000
Discharge per length = 0.001631
Head in Center of Linesink = 574.000000
Total Linesink Discharge = 0.169359 [L3/T]

Line Sink #10

```
    x1: 11274.799805   y1: 9557.620117
    x2: 11375.000000   y2: 9548.629883
    Discharge per length = -0.000046
    Head in Center of Linesink     = 574.000061
    Total Linesink Discharge       = -0.004610 [L3/T]
 Line Sink #11
    x1: 11798.269531   y1: 9458.070313
    x2: 11910.019531   y2: 9429.009766
    Discharge per length = 0.002061
    Head in Center of Linesink     = 573.999756
    Total Linesink Discharge       = 0.237977 [L3/T]
 Line Sink #12
    x1: 12250.440430   y1: 9339.889648
    x2: 12379.919922   y2: 9307.370117
    Discharge per length = 0.000623
    Head in Center of Linesink     = 574.000000
    Total Linesink Discharge       = 0.083199 [L3/T]
 Line Sink #13
    x1: 12609.480469   y1: 9251.900391
    x2: 12842.719727   y2: 9201.009766
    Discharge per length = 0.000822
    Head in Center of Linesink     = 573.999817
    Total Linesink Discharge       = 0.196245 [L3/T]
 Line Sink #14
    x1: 9238.709961   y1: 8655.839844
    x2: 9162.280273   y2: 8589.679688
    Discharge per length = 0.000422
    Head in Center of Linesink     = 574.000000
    Total Linesink Discharge       = 0.042610 [L3/T]
 Line Sink #15
    x1: 8799.389648   y1: 8269.179688
    x2: 8743.000000   y2: 8212.000000
    Discharge per length = 0.001424
    Head in Center of Linesink     = 573.999573
    Total Linesink Discharge       = 0.114330 [L3/T]
 Line Sink #16
    x1: 9305.000000   y1: 7620.000000
    x2: 9499.110352   y2: 7798.709961
    Discharge per length = 0.000588
    Head in Center of Linesink     = 573.999756
    Total Linesink Discharge       = 0.155033 [L3/T]
 Line Sink #17
    x1: 10618.910156   y1: 8563.019531
    x2: 10893.000000   y2: 8655.000000
    Discharge per length = 0.000076
    Head in Center of Linesink     = 574.000000
    Total Linesink Discharge       = 0.022065 [L3/T]
 Line Sink #18
    x1: 11621.400391   y1: 8674.400391
    x2: 11886.000000   y2: 8669.000000
    Discharge per length = 0.000110
    Head in Center of Linesink     = 574.000000
    Total Linesink Discharge       = 0.029010 [L3/T]
 Line Sink #19
    x1: 12429.190430   y1: 8627.009766
    x2: 12836.000000   y2: 8598.000000
    Discharge per length = 0.000486
    Head in Center of Linesink     = 573.999817
    Total Linesink Discharge       = 0.198403 [L3/T]
 Line Sink #20
    x1: 10298.349609   y1: 10053.889648
    x2: 10275.230469   y2: 9945.990234
    Discharge per length = 0.000224
    Head in Center of Linesink     = 579.000000
    Total Linesink Discharge       = 0.024763 [L3/T]
 Line Sink #21
    x1: 9915.799805   y1: 10113.259766
    x2: 10032.509766   y2: 10055.139648
    Discharge per length = 0.001196
    Head in Center of Linesink     = 578.999939
    Total Linesink Discharge       = 0.155944 [L3/T]
 Line Sink #22
    x1: 9803.790039   y1: 10170.790039
    x2: 9702.000000   y2: 10222.000000
    Discharge per length = 0.001863
    Head in Center of Linesink     = 578.999878
    Total Linesink Discharge       = 0.212225 [L3/T]
 Line Sink #23
    x1: 10341.650391   y1: 9900.759766
    x2: 10457.000000   y2: 9838.719727
    Discharge per length = -0.000835
    Head in Center of Linesink     = 579.000000
    Total Linesink Discharge       = -0.109384 [L3/T]
 Line Sink #24
    x1: 10574.030273   y1: 9781.690430
    x2: 10679.879883   y2: 9750.730469
    Discharge per length = -0.000683
    Head in Center of Linesink     = 578.999939
    Total Linesink Discharge       = -0.075352 [L3/T]
 Line Sink #25
    x1: 10795.110352   y1: 9720.509766
    x2: 10904.009766   y2: 9693.559570
    Discharge per length = -0.001775
    Head in Center of Linesink     = 579.000183
    Total Linesink Discharge       = -0.199128 [L3/T]
```

```
Line Sink #26
   x1: 11634.080078   y1: 10079.360352
   x2: 11606.690430   y2: 9965.889648
   Discharge per length = 0.002729
   Head in Center of Linesink    = 576.999817
   Total Linesink Discharge      = 0.318582 [L3/T]
Line Sink #27
   x1: 11447.019531   y1: 10428.690430
   x2: 11581.000000   y2: 10397.530273
   Discharge per length = 0.002365
   Head in Center of Linesink    = 575.000000
   Total Linesink Discharge      = 0.325365 [L3/T]
Line Sink #28
   x1: 11748.410156   y1: 10464.120117
   x2: 11704.809570   y2: 10284.269531
   Discharge per length = 0.001609
   Head in Center of Linesink    = 574.999939
   Total Linesink Discharge      = 0.297721 [L3/T]
Line Sink #29
   x1: 11243.259766   y1: 9603.580078
   x2: 11342.610352   y2: 9578.759766
   Discharge per length = 0.000642
   Head in Center of Linesink    = 574.000122
   Total Linesink Discharge      = 0.065785 [L3/T]
Line Sink #30
   x1: 9013.269531   y1: 8457.370117
   x2: 9089.059570   y2: 8525.450195
   Discharge per length = 0.000398
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.040583 [L3/T]
Line Sink #31
   x1: 9089.059570   y1: 8526.740234
   x2: 9159.709961   y2: 8588.400391
   Discharge per length = 0.000402
   Head in Center of Linesink    = 573.999878
   Total Linesink Discharge      = 0.037702 [L3/T]
Line Sink #32
   x1: 9009.419922   y1: 8452.230469
   x2: 8938.759766   y2: 8398.280273
   Discharge per length = 0.000441
   Head in Center of Linesink    = 573.999878
   Total Linesink Discharge      = 0.039200 [L3/T]
Line Sink #33
   x1: 8870.679688   y1: 8337.900391
   x2: 8936.190430   y2: 8394.419922
   Discharge per length = 0.000508
   Head in Center of Linesink    = 573.999939
   Total Linesink Discharge      = 0.043916 [L3/T]
Line Sink #34
   x1: 8801.959961   y1: 8269.179688
   x2: 8868.759766   y2: 8335.969727
   Discharge per length = 0.000617
   Head in Center of Linesink    = 573.999817
   Total Linesink Discharge      = 0.058304 [L3/T]
Line Sink #35
   x1: 9242.559570   y1: 8657.120117
   x2: 9319.639648   y2: 8726.490234
   Discharge per length = 0.000462
   Head in Center of Linesink    = 573.999817
   Total Linesink Discharge      = 0.047880 [L3/T]
Line Sink #36
   x1: 9322.209961   y1: 8727.780273
   x2: 9385.150391   y2: 8788.150391
   Discharge per length = 0.000549
   Head in Center of Linesink    = 573.999817
   Total Linesink Discharge      = 0.047849 [L3/T]
Line Sink #37
   x1: 9386.440430   y1: 8789.440430
   x2: 9453.240234   y2: 8851.099609
   Discharge per length = 0.000695
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.063197 [L3/T]
Line Sink #38
   x1: 9541.230469   y1: 8919.830078
   x2: 9636.290039   y2: 8921.110352
   Discharge per length = 0.001133
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.107713 [L3/T]
Line Sink #39
   x1: 9641.429688   y1: 8919.830078
   x2: 9753.190430   y2: 8919.830078
   Discharge per length = 0.000629
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.070348 [L3/T]
Line Sink #40
   x1: 9857.879883   y1: 8917.900391
   x2: 9896.419922   y2: 9003.959961
   Discharge per length = 0.000223
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.021012 [L3/T]
Line Sink #41
   x1: 9895.139648   y1: 9006.530273
   x2: 9931.110352   y2: 9093.889648
   Discharge per length = 0.000506
   Head in Center of Linesink    = 574.000000
```

```
    Total Linesink Discharge      = 0.047776 [L3/T]
 Line Sink #42
    x1: 9961.299805   y1: 9176.740234
    x2: 10012.679688   y2: 9252.530273
    Discharge per length = 0.000785
    Head in Center of Linesink    = 573.999756
    Total Linesink Discharge      = 0.071888 [L3/T]
 Line Sink #43
    x1: 10013.959961   y1: 9252.530273
    x2: 10070.490234   y2: 9328.320313
    Discharge per length = 0.000736
    Head in Center of Linesink    = 573.999939
    Total Linesink Discharge      = 0.069580 [L3/T]
 Line Sink #44
    x1: 10128.290039   y1: 9404.110352
    x2: 10234.269531   y2: 9391.910156
    Discharge per length = 0.000752
    Head in Center of Linesink    = 574.000000
    Total Linesink Discharge      = 0.080217 [L3/T]
 Line Sink #45
    x1: 10356.309570   y1: 9379.070313
    x2: 10459.080078   y2: 9379.070313
    Discharge per length = 0.001737
    Head in Center of Linesink    = 574.000061
    Total Linesink Discharge      = 0.178481 [L3/T]
 Line Sink #46
    x1: 10573.410156   y1: 9384.209961
    x2: 10671.040039   y2: 9381.639648
    Discharge per length = 0.001625
    Head in Center of Linesink    = 574.000000
    Total Linesink Discharge      = 0.158685 [L3/T]
 Line Sink #47
    x1: 10768.030273   y1: 9375.860352
    x2: 10857.950195   y2: 9411.820313
    Discharge per length = 0.000857
    Head in Center of Linesink    = 574.000000
    Total Linesink Discharge      = 0.082970 [L3/T]
 Line Sink #48
    x1: 10859.230469   y1: 9413.110352
    x2: 10954.290039   y2: 9450.360352
    Discharge per length = 0.000868
    Head in Center of Linesink    = 573.999573
    Total Linesink Discharge      = 0.088665 [L3/T]
 Line Sink #49
    x1: 11061.559570   y1: 9494.679688
    x2: 11160.469727   y2: 9530.650391
    Discharge per length = 0.001219
    Head in Center of Linesink    = 573.999207
    Total Linesink Discharge      = 0.128348 [L3/T]
 Line Sink #50
    x1: 11378.849609   y1: 9547.349609
    x2: 11468.769531   y2: 9534.500000
    Discharge per length = 0.000167
    Head in Center of Linesink    = 574.000000
    Total Linesink Discharge      = 0.015211 [L3/T]
 Line Sink #51
    x1: 11471.339844   y1: 9533.219727
    x2: 11549.700195   y2: 9521.650391
    Discharge per length = 0.001288
    Head in Center of Linesink    = 574.000000
    Total Linesink Discharge      = 0.102030 [L3/T]
 Line Sink #52
    x1: 11554.200195   y1: 9519.730469
    x2: 11667.240234   y2: 9492.750000
    Discharge per length = 0.001313
    Head in Center of Linesink    = 574.000000
    Total Linesink Discharge      = 0.152609 [L3/T]
 Line Sink #53
    x1: 11671.089844   y1: 9490.190430
    x2: 11793.129883   y2: 9459.360352
    Discharge per length = 0.001957
    Head in Center of Linesink    = 573.999023
    Total Linesink Discharge      = 0.246392 [L3/T]
 Line Sink #54
    x1: 11913.879883   y1: 9427.250000
    x2: 12014.080078   y2: 9400.269531
    Discharge per length = 0.001599
    Head in Center of Linesink    = 574.000000
    Total Linesink Discharge      = 0.165889 [L3/T]
 Line Sink #55
    x1: 12019.200195   y1: 9398.980469
    x2: 12124.530273   y2: 9370.719727
    Discharge per length = 0.001148
    Head in Center of Linesink    = 573.999878
    Total Linesink Discharge      = 0.125166 [L3/T]
 Line Sink #56
    x1: 12129.690430   y1: 9369.440430
    x2: 12244.019531   y2: 9342.459961
    Discharge per length = 0.000835
    Head in Center of Linesink    = 574.000000
    Total Linesink Discharge      = 0.098082 [L3/T]
 Line Sink #57
    x1: 12383.389648   y1: 9304.559570
    x2: 12605.629883   y2: 9253.179688
    Discharge per length = 0.000474
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    Head in Center of Linesink     = 574.000000
    Total Linesink Discharge       = 0.108196 [L3/T]
 Line Sink #58
    x1: 9501.480469   y1: 7801.080078
    x2: 9698.190430   y2: 7983.569824
    Discharge per length = 0.000201
    Head in Center of Linesink     = 574.000000
    Total Linesink Discharge       = 0.053897 [L3/T]
 Line Sink #59
    x1: 9702.929688   y1: 7988.310059
    x2: 9885.410156   y2: 8158.950195
    Discharge per length = 0.000139
    Head in Center of Linesink     = 574.000000
    Total Linesink Discharge       = 0.034665 [L3/T]
 Line Sink #60
    x1: 9892.519531   y1: 8163.689941
    x2: 10103.450195   y2: 8334.320313
    Discharge per length = 0.000099
    Head in Center of Linesink     = 573.999939
    Total Linesink Discharge       = 0.026989 [L3/T]
 Line Sink #61
    x1: 10111.750000   y1: 8335.509766
    x2: 10365.330078   y2: 8463.480469
    Discharge per length = 0.000085
    Head in Center of Linesink     = 573.999939
    Total Linesink Discharge       = 0.024150 [L3/T]
 Line Sink #62
    x1: 10370.070313   y1: 8461.110352
    x2: 10611.799805   y2: 8560.650391
    Discharge per length = 0.000085
    Head in Center of Linesink     = 574.000000
    Total Linesink Discharge       = 0.022096 [L3/T]
 Line Sink #63
    x1: 10896.200195   y1: 8655.440430
    x2: 11206.660156   y2: 8672.030273
    Discharge per length = 0.000080
    Head in Center of Linesink     = 574.000000
    Total Linesink Discharge       = 0.024764 [L3/T]
 Line Sink #64
    x1: 11216.139648   y1: 8669.660156
    x2: 11607.179688   y2: 8676.769531
    Discharge per length = 0.000098
    Head in Center of Linesink     = 574.000000
    Total Linesink Discharge       = 0.038342 [L3/T]
 Line Sink #65
    x1: 11891.209961   y1: 8667.299805
    x2: 12412.599609   y2: 8627.009766
    Discharge per length = 0.000145
    Head in Center of Linesink     = 573.999939
    Total Linesink Discharge       = 0.075837 [L3/T]
 Line Sink #66
    x1: 9805.070313   y1: 10169.500000
    x2: 9914.259766   y2: 10116.830078
    Discharge per length = 0.001236
    Head in Center of Linesink     = 578.999939
    Total Linesink Discharge       = 0.149783 [L3/T]
 Line Sink #67
    x1: 10035.009766   y1: 10050.040039
    x2: 10145.490234   y2: 9997.370117
    Discharge per length = 0.000876
    Head in Center of Linesink     = 578.999939
    Total Linesink Discharge       = 0.107191 [L3/T]
 Line Sink #68
    x1: 10148.059570   y1: 9996.089844
    x2: 10254.679688   y2: 9944.700195
    Discharge per length = 0.000283
    Head in Center of Linesink     = 579.000000
    Total Linesink Discharge       = 0.033555 [L3/T]
 Line Sink #69
    x1: 10298.349609   y1: 10057.750000
    x2: 10320.190430   y2: 10156.660156
    Discharge per length = 0.000705
    Head in Center of Linesink     = 579.000000
    Total Linesink Discharge       = 0.071425 [L3/T]
 Line Sink #70
    x1: 10342.030273   y1: 10256.860352
    x2: 10320.190430   y2: 10157.950195
    Discharge per length = 0.002174
    Head in Center of Linesink     = 578.999939
    Total Linesink Discharge       = 0.220210 [L3/T]
 Line Sink #71
    x1: 10257.250000   y1: 9940.849609
    x2: 10336.889648   y2: 9902.309570
    Discharge per length = -0.000200
    Head in Center of Linesink     = 579.000000
    Total Linesink Discharge       = -0.017685 [L3/T]
 Line Sink #72
    x1: 10458.290039   y1: 9836.150391
    x2: 10571.330078   y2: 9783.490234
    Discharge per length = -0.001084
    Head in Center of Linesink     = 579.000000
    Total Linesink Discharge       = -0.135203 [L3/T]
 Line Sink #73
    x1: 10681.169922   y1: 9749.440430
    x2: 10792.929688   y2: 9721.179688
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      Discharge per length = -0.001013
      Head in Center of Linesink    = 579.000000
      Total Linesink Discharge      = -0.116783 [L3/T]
   Line Sink #74
      x1: 10906.580078   y1: 9692.280273
      x2: 11014.490234   y2: 9664.019531
      Discharge per length = -0.002471
      Head in Center of Linesink    = 579.000000
      Total Linesink Discharge      = -0.275668 [L3/T]
   Line Sink #75
      x1: 11017.059570   y1: 9661.450195
      x2: 11126.250000   y2: 9635.759766
      Discharge per length = -0.002813
      Head in Center of Linesink    = 579.000122
      Total Linesink Discharge      = -0.315514 [L3/T]
   Line Sink #76
      x1: 11130.099609   y1: 9633.190430
      x2: 11240.580078   y2: 9604.929688
      Discharge per length = -0.004543
      Head in Center of Linesink    = 579.000000
      Total Linesink Discharge      = -0.518036 [L3/T]
   Line Sink #77
      x1: 11502.000000   y1: 9540.059570
      x2: 11527.690430   y2: 9636.400391
      Discharge per length = -0.001726
      Head in Center of Linesink    = 577.000061
      Total Linesink Discharge      = -0.172051 [L3/T]
   Line Sink #78
      x1: 11526.410156   y1: 9640.250000
      x2: 11549.530273   y2: 9735.309570
      Discharge per length = 0.000703
      Head in Center of Linesink    = 577.000000
      Total Linesink Discharge      = 0.068819 [L3/T]
   Line Sink #79
      x1: 11550.809570   y1: 9737.879883
      x2: 11576.500000   y2: 9841.929688
      Discharge per length = 0.000969
      Head in Center of Linesink    = 577.000061
      Total Linesink Discharge      = 0.103854 [L3/T]
   Line Sink #80
      x1: 11577.139648   y1: 9846.429688
      x2: 11606.690430   y2: 9962.040039
      Discharge per length = 0.002253
      Head in Center of Linesink    = 576.999756
      Total Linesink Discharge      = 0.268817 [L3/T]
   Line Sink #81
      x1: 11586.139648   y1: 10396.240234
      x2: 11710.740234   y2: 10365.410156
      Discharge per length = 0.001063
      Head in Center of Linesink    = 574.999878
      Total Linesink Discharge      = 0.136478 [L3/T]


Number of Ponds = 10

   Pond #1
      Center of Pond --  x: 9863.690430   y: 9771.309570
      Radius = 357.489990
      Infiltration Rate = 0.000002
      Head at Center of Pond        = 581.034241
      Total Pond Flux               = 0.987672 [L3/T]
   Pond #2
      Center of Pond --  x: 10779.519531   y: 10159.440430
      Radius = 330.489990
      Infiltration Rate = 0.000003
      Head at Center of Pond        = 582.165405
      Total Pond Flux               = 0.936762 [L3/T]
   Pond #3
      Center of Pond --  x: 11295.660156   y: 9892.900391
      Radius = 240.630005
      Infiltration Rate = 0.000005
      Head at Center of Pond        = 581.027954
      Total Pond Flux               = 0.993212 [L3/T]
   Pond #4
      Center of Pond --  x: 9461.429688   y: 9236.889648
      Radius = 292.000000
      Infiltration Rate = 0.000002
      Head at Center of Pond        = 580.717957
      Total Pond Flux               = 0.658947 [L3/T]
   Pond #5
      Center of Pond --  x: 10127.879883   y: 10456.309570
      Radius = 196.600006
      Infiltration Rate = 0.000003
      Head at Center of Pond        = 581.796143
      Total Pond Flux               = 0.331497 [L3/T]
   Pond #6
      Center of Pond --  x: 11860.480469   y: 9758.450195
      Radius = 254.770004
      Infiltration Rate = 0.000011
      Head at Center of Pond        = 583.108948
      Total Pond Flux               = 2.222660 [L3/T]
   Pond #7
      Center of Pond --  x: 10427.480469   y: 9572.870117
      Radius = 70.000000
      Infiltration Rate = 0.000055
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      Head at Center of Pond          = 582.398315
      Total Pond Flux                 = 0.840502 [L3/T]
   Pond #8
      Center of Pond --  x: 10600.910156   y: 9607.610352
      Radius = 70.000000
      Infiltration Rate = 0.000041
      Head at Center of Pond          = 582.155212
      Total Pond Flux                 = 0.629607 [L3/T]
   Pond #9
      Center of Pond --  x: 10761.839844   y: 9620.469727
      Radius = 40.000000
      Infiltration Rate = 0.000041
      Head at Center of Pond          = 580.403870
      Total Pond Flux                 = 0.206088 [L3/T]
   Pond #10
      Center of Pond --  x: 11421.280273   y: 9700.990234
      Radius = 64.430000
      Infiltration Rate = 0.000027
      Head at Center of Pond          = 579.108154
      Total Pond Flux                 = 0.356032 [L3/T]


Number of Wells = 60

   Well #1
      Center of Well --  x: 10070.589844   y: 9500.400391
      Radius = 1.500000
      Pumping Rate = 0.080000
      Head at Well Radius             = 575.375427
   Well #2
      Center of Well --  x: 10094.469727   y: 9531.730469
      Radius = 1.500000
      Pumping Rate = 0.080000
      Head at Well Radius             = 575.355530
   Well #3
      Center of Well --  x: 10213.759766   y: 9683.230469
      Radius = 1.500000
      Pumping Rate = 0.050000
      Head at Well Radius             = 577.482483
   Well #4
      Center of Well --  x: 10118.419922   y: 9563.080078
      Radius = 1.500000
      Pumping Rate = 0.050000
      Head at Well Radius             = 576.272339
   Well #5
      Center of Well --  x: 10143.230469   y: 9593.110352
      Radius = 1.500000
      Pumping Rate = 0.050000
      Head at Well Radius             = 576.659851
   Well #6
      Center of Well --  x: 10168.040039   y: 9623.139648
      Radius = 1.500000
      Pumping Rate = 0.050000
      Head at Well Radius             = 576.991333
   Well #7
      Center of Well --  x: 10190.250000   y: 9654.500000
      Radius = 1.500000
      Pumping Rate = 0.050000
      Head at Well Radius             = 577.272400
   Well #8
      Center of Well --  x: 10310.410156   y: 9806.740234
      Radius = 1.500000
      Pumping Rate = 0.050000
      Head at Well Radius             = 577.904907
   Well #9
      Center of Well --  x: 10336.530273   y: 9842.000000
      Radius = 1.500000
      Pumping Rate = 0.050000
      Head at Well Radius             = 578.068481
   Well #10
      Center of Well --  x: 10363.959961   y: 9873.349609
      Radius = 1.500000
      Pumping Rate = 0.050000
      Head at Well Radius             = 578.438843
   Well #11
      Center of Well --  x: 10238.559570   y: 9712.679688
      Radius = 1.500000
      Pumping Rate = 0.050000
      Head at Well Radius             = 577.653259
   Well #12
      Center of Well --  x: 10263.370117   y: 9744.019531
      Radius = 1.500000
      Pumping Rate = 0.050000
      Head at Well Radius             = 577.762756
   Well #13
      Center of Well --  x: 10285.570313   y: 9776.690430
      Radius = 1.500000
      Pumping Rate = 0.050000
      Head at Well Radius             = 577.815430
   Well #14
      Center of Well --  x: 10444.169922   y: 9872.040039
      Radius = 1.500000
      Pumping Rate = 0.090000
      Head at Well Radius             = 577.794861
   Well #15
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    Center of Well --  x: 10568.070313   y: 9812.339844
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 577.492004
 Well #16
    Center of Well --  x: 10475.519531   y: 9857.120117
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 577.599243
 Well #17
    Center of Well --  x: 10506.860352   y: 9840.700195
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 577.586243
 Well #18
    Center of Well --  x: 10539.410156   y: 9825.769531
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 577.545349
 Well #19
    Center of Well --  x: 10597.919922   y: 9801.889648
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 577.408875
 Well #20
    Center of Well --  x: 10744.179688   y: 9763.089844
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 577.284607
 Well #21
    Center of Well --  x: 10627.480469   y: 9795.919922
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 577.314758
 Well #22
    Center of Well --  x: 10657.620117   y: 9788.450195
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 577.250610
 Well #23
    Center of Well --  x: 10685.969727   y: 9781.000000
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 577.210632
 Well #24
    Center of Well --  x: 10712.839844   y: 9772.040039
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 577.261963
 Well #25
    Center of Well --  x: 10894.929688   y: 9727.259766
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 577.102478
 Well #26
    Center of Well --  x: 10774.030273   y: 9757.120117
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 577.250793
 Well #27
    Center of Well --  x: 10805.089844   y: 9749.940430
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 577.241089
 Well #28
    Center of Well --  x: 10835.240234   y: 9743.679688
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 577.210815
 Well #29
    Center of Well --  x: 10866.570313   y: 9734.730469
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 577.149414
 Well #30
    Center of Well --  x: 10925.259766   y: 9720.330078
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 577.104431
 Well #31
    Center of Well --  x: 11048.160156   y: 9691.860352
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 577.034790
 Well #32
    Center of Well --  x: 10955.250000   y: 9712.839844
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 577.118591
 Well #33
    Center of Well --  x: 10986.719727   y: 9705.339844
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 577.091980
 Well #34
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    Center of Well --  x: 11016.690430   y: 9697.849609
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 577.063904
 Well #35
    Center of Well --  x: 11254.990234   y: 9637.900391
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 575.003967
 Well #36
    Center of Well --  x: 11078.139648   y: 9684.360352
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 577.021240
 Well #37
    Center of Well --  x: 11108.110352   y: 9676.870117
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 576.998901
 Well #38
    Center of Well --  x: 11136.429688   y: 9668.419922
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 576.986755
 Well #39
    Center of Well --  x: 11164.919922   y: 9661.330078
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 576.901794
 Well #40
    Center of Well --  x: 11192.440430   y: 9654.389648
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 576.660767
 Well #41
    Center of Well --  x: 11221.190430   y: 9647.580078
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 576.177185
 Well #42
    Center of Well --  x: 11287.000000   y: 9628.910156
    Radius = 1.500000
    Pumping Rate = 0.070000
    Head at Well Radius           = 573.860962
 Well #43
    Center of Well --  x: 11309.709961   y: 9623.990234
    Radius = 1.500000
    Pumping Rate = 0.040000
    Head at Well Radius           = 574.261353
 Well #44
    Center of Well --  x: 11328.099609   y: 9619.990234
    Radius = 1.500000
    Pumping Rate = 0.030000
    Head at Well Radius           = 574.505920
 Well #45
    Center of Well --  x: 11347.690430   y: 9615.250000
    Radius = 1.500000
    Pumping Rate = 0.030000
    Head at Well Radius           = 574.549438
 Well #46
    Center of Well --  x: 11366.990234   y: 9610.570313
    Radius = 1.500000
    Pumping Rate = 0.030000
    Head at Well Radius           = 574.547180
 Well #47
    Center of Well --  x: 11445.559570   y: 9594.860352
    Radius = 1.500000
    Pumping Rate = 0.030000
    Head at Well Radius           = 574.292542
 Well #48
    Center of Well --  x: 11469.290039   y: 9597.450195
    Radius = 1.500000
    Pumping Rate = 0.050000
    Head at Well Radius           = 574.404053
 Well #49
    Center of Well --  x: 11488.790039   y: 9618.419922
    Radius = 1.500000
    Pumping Rate = 0.050000
    Head at Well Radius           = 575.498169
 Well #50
    Center of Well --  x: 11496.280273   y: 9646.889648
    Radius = 1.500000
    Pumping Rate = 0.050000
    Head at Well Radius           = 576.030823
 Well #51
    Center of Well --  x: 11552.480469   y: 9870.950195
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 575.749756
 Well #52
    Center of Well --  x: 11541.990234   y: 9837.980469
    Radius = 1.500000
    Pumping Rate = 0.090000
    Head at Well Radius           = 575.424072
 Well #53
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      Center of Well --  x: 11533.000000   y: 9806.509766
      Radius = 1.500000
      Pumping Rate = 0.090000
      Head at Well Radius          = 575.417053
   Well #54
      Center of Well --  x: 11525.500000   y: 9775.040039
      Radius = 1.500000
      Pumping Rate = 0.070000
      Head at Well Radius          = 575.889465
   Well #55
      Center of Well --  x: 11519.509766   y: 9743.570313
      Radius = 1.500000
      Pumping Rate = 0.070000
      Head at Well Radius          = 576.062439
   Well #56
      Center of Well --  x: 11503.580078   y: 9679.120117
      Radius = 1.500000
      Pumping Rate = 0.050000
      Head at Well Radius          = 576.388977
   Well #57
      Center of Well --  x: 11512.009766   y: 9712.099609
      Radius = 1.500000
      Pumping Rate = 0.050000
      Head at Well Radius          = 576.463806
   Well #58
      Center of Well --  x: 11386.099609   y: 9605.650391
      Radius = 1.500000
      Pumping Rate = 0.030000
      Head at Well Radius          = 574.452271
   Well #59
      Center of Well --  x: 11404.459961   y: 9601.469727
      Radius = 1.500000
      Pumping Rate = 0.030000
      Head at Well Radius          = 574.354919
   Well #60
      Center of Well --  x: 11423.910156   y: 9597.150391
      Radius = 1.500000
      Pumping Rate = 0.030000
      Head at Well Radius          = 574.243958

Reference Head = 582.000000    Defined at --  x: 10200.940430   y: 10653.509766
```

Calibration Targets

Target Head	Computed Head	Residual	Well Name
576.21	577.41	-1.2026	RFI-17
578.01	578.43	-0.4171	RFI-42
580.29	579.86	0.4315	RFI-43
581.32	581.74	-0.4233	RFI-33
581.18	582.44	-1.2600	PS-11
580.86	581.13	-0.2741	PS-12
581.22	577.99	3.2265	RFI-32
582.32	578.37	3.9531	PS-13
581.05	581.18	-0.1287	R-15
582.55	579.64	2.9070	RFI-36
580.27	578.97	1.2960	RFIPZ23
581.64	578.55	3.0866	RFI-51
579.29	578.84	0.4537	RFIPZ22
580.54	578.51	2.0253	R-11
580.23	579.05	1.1830	RFIPZ16
573.69	576.07	-2.3804	RFIPZ27
576.79	576.06	0.7345	RFIPZ18
575.54	575.87	-0.3294	R-13
580.83	575.52	5.3144	R-08
576.77	575.10	1.6731	R-09
573.84	574.99	-1.1534	RFIPZ17
575.66	574.19	1.4736	RFIPZ21
573.61	574.03	-0.4195	RFIPZ19
573.50	574.02	-0.5165	RFIPZ20
582.05	582.01	0.0439	RFI-20
582.63	582.05	0.5829	PS-05
581.60	580.15	1.4529	PS-06
582.09	581.01	1.0817	PS-04
580.73	580.62	0.1133	RFI-31
580.19	579.37	0.8156	RFI-30
581.27	579.11	2.1590	RFIPZ26
580.81	578.85	1.9632	RFIPZ25
579.99	578.71	1.2798	RFI-29
579.92	578.34	1.5751	RFI-18
582.23	578.23	3.9991	PS-08
581.36	579.11	2.2451	RFIPZ24
580.20	578.07	2.1284	RFI-35
581.62	580.56	1.0568	PS-07
581.11	581.20	-0.0935	RFI-27
581.62	580.41	1.2110	PS-09
579.92	577.94	1.9761	RFI-28
573.68	574.02	-0.3440	RFI-34
573.55	574.03	-0.4793	RFI-45
582.42	581.28	1.1410	RFI-37

Number of Targets = 44
Residual Mean = 0.980939
Residual Standard Deviation = 1.542389
Residual Sum of Squares = 147.013047
Absolute Residual Mean = 1.409205
Minimum Residual = -2.380418
Maximum Residual = 5.314442
Observed Range in Head = 9.130000
Resid. Std./Range in Head = 0.168936

****

Aquifer Properties

.... Steady-State Flow Model ....

Permeability.....= 0.007820 [L/T]
Porosity.....= 0.100000
Elevation of Aquifer Top....= 585.000000
Elevation of Aquifer Bottom.= 572.800000
Uniform Regional Gradient...= 0.000000
Angle of Uniform Gradient...= 0.000000
Recharge.....= 0.000000

****

Contour Matrix

Number of nodes in the X-direction = 100
Number of nodes in the Y-direction = 100

Minimum X Coordinate = 9025.477979
Minimum Y Coordinate = 8203.024170

Maximum X Coordinate = 11901.302297
Maximum Y Coordinate = 10901.187749

Minimum Head = 573.739371
Maximum Head = 583.369365

CONTOUR GRID -----

Row 1

575.424171	575.396418	575.363601	575.326206	575.284666
575.239384	575.190753	575.139168	575.085030	575.028758
574.970785	574.911557	574.851533	574.791170	574.730922
574.671227	574.612495	574.555107	574.499403	574.445673
574.394155	574.345023	574.298390	574.254318	574.212863
574.174159	574.138556	574.106851	574.080578	574.061749
574.048947	574.036344	574.109929	574.262717	574.398195
574.519852	574.629977	574.730205	574.821870	574.906192
574.984278	575.057069	575.125312	575.189591	575.250359
575.307980	575.362753	575.414928	575.464721	575.512317
575.557879	575.601546	575.643438	575.683660	575.722304
575.759451	575.795174	575.829541	575.862615	575.894456
575.925120	575.954663	575.983138	576.010597	576.037090
576.062669	576.087382	576.111279	576.134407	576.156816
576.178551	576.199660	576.220190	576.240184	576.259687
576.278743	576.297393	576.315679	576.333639	576.351312
576.368733	576.385937	576.402957	576.419825	576.436571
576.453226	576.469820	576.486383	576.502945	576.519540
576.536201	576.552962	576.569863	576.586942	576.604243
576.621809	576.639689	576.657933	576.676595	576.695730

Row 2

575.277590	575.262937	575.241628	575.214556	575.182443
575.145902	575.105477	575.061672	575.014965	574.965827
574.914719	574.862101	574.808431	574.754156	574.699712
574.645517	574.591961	574.539406	574.488176	574.438554
574.390776	574.345035	574.301481	574.260238	574.221440
574.185288	574.152119	574.122482	574.097080	574.076257
574.058926	574.042783	574.025988	574.067026	574.220374
574.355614	574.476326	574.584759	574.682696	574.771878
574.853923	574.930118	575.001397	575.068433	575.131728
575.191674	575.248591	575.302749	575.354380	575.403687
575.450844	575.496000	575.539284	575.580805	575.620656
575.658920	575.695673	575.730983	575.764915	575.797532
575.828892	575.859054	575.888074	575.916006	575.942905
575.968824	575.993815	576.017931	576.041224	576.063743
576.085541	576.106668	576.127172	576.147101	576.166504
576.185426	576.203912	576.222006	576.239748	576.257178
576.274334	576.291251	576.307963	576.324501	576.340895
576.357176	576.373371	576.389511	576.405626	576.421746
576.437905	576.454139	576.470485	576.486983	576.503676
576.520611	576.537837	576.555404	576.573368	576.591787

Row 3

575.129003	575.127842	575.118333	575.101793	575.079243
575.051513	575.019305	574.983238	574.943874	574.901739
574.857333	574.811137	574.763614	574.715212	574.666358
574.617457	574.568887	574.520998	574.474102	574.428480
574.384370	574.341979	574.301480	574.263032	574.226800
574.192986	574.161851	574.133709	574.108814	574.087079
574.067770	574.049635	574.031368	574.011788	574.020310
574.175805	574.311473	574.430814	574.536343	574.630952
574.717333	574.797306	574.872001	574.942162	575.008324
575.070899	575.130227	575.186600	575.240276	575.291477
575.340399	575.387203	575.432025	575.474979	575.516160
575.555654	575.593536	575.629876	575.664743	575.698200
575.730311	575.761138	575.790739	575.819173	575.846498
575.872771	575.898047	575.922383	575.945834	575.968456
575.990303	576.011429	576.031886	576.051728	576.071004
576.089764	576.108057	576.125927	576.143421	576.160578
576.177438	576.194037	576.210409	576.226586	576.242596
576.258468	576.274230	576.289909	576.305535	576.321137
576.336747	576.352401	576.368136	576.383993	576.400015
576.416250	576.432747	576.449561	576.466746	576.484364

Row 4

574.979717	574.992153	574.994539	574.988600	574.975648
574.956726	574.932694	574.904288	574.872154	574.836882
574.799011	574.759051	574.717478	574.674746	574.631280
574.587481	574.543718	574.500333	574.457634	574.415898
574.375368	574.336258	574.298756	574.263036	574.229270
574.197637	574.168324	574.141500	574.117226	574.095329

574.075303	574.056366	574.037633	574.018215	573.997178
573.973305	574.131885	574.266954	574.381523	574.481754
574.572840	574.657143	574.735841	574.809679	574.879199
574.944829	575.006930	575.065827	575.121812	575.175145
575.226047	575.274700	575.321248	575.365808	575.408479
575.449344	575.488480	575.525959	575.561853	575.596231
575.629160	575.660707	575.690934	575.719906	575.747683
575.774326	575.799897	575.824455	575.848061	575.870775
575.892656	575.913762	575.934151	575.953878	575.972998
575.991566	576.009632	576.027247	576.044458	576.061308
576.077839	576.094088	576.110089	576.125871	576.141464
576.156894	576.172186	576.187366	576.202460	576.217496
576.232507	576.247526	576.262590	576.277741	576.293022
576.308481	576.324171	576.340145	576.356463	576.373186

Row 5

574.830929	574.856839	574.871058	574.875670	574.872258
574.862070	574.846120	574.825257	574.800215	574.771646
574.740135	574.706223	574.670406	574.633147	574.594875
574.555991	574.516860	574.477821	574.439179	574.401210
574.364158	574.328244	574.293662	574.260593	574.229202
574.199647	574.172067	574.146553	574.123103	574.101558
574.081572	574.062645	574.044212	574.025711	574.006613
573.986367	573.963922	574.093731	574.216533	574.321235
574.417742	574.507414	574.591104	574.669486	574.743102
574.812399	574.877774	574.939600	574.998236	575.054004
575.107166	575.157929	575.206447	575.252839	575.297202
575.339619	575.380167	575.418921	575.455959	575.491355
575.525184	575.557519	575.588429	575.617981	575.646243
575.673279	575.699157	575.723941	575.747699	575.770495
575.792393	575.813458	575.833752	575.853336	575.872268
575.890609	575.908413	575.925735	575.942626	575.959133
575.975300	575.991164	576.006759	576.022115	576.037258
576.052211	576.066996	576.081636	576.096155	576.110578
576.124935	576.139259	576.153587	576.167959	576.182422
576.197024	576.211818	576.226860	576.242212	576.257937

Row 6

574.683571	574.722739	574.748645	574.763670	574.769665
574.768077	574.760066	574.746592	574.728474	574.706427
574.681087	574.653027	574.622767	574.590783	574.557514
574.523360	574.488690	574.453838	574.419111	574.384782
574.351098	574.318283	574.286535	574.256033	574.226941
574.199398	574.173519	574.149365	574.126925	574.106083
574.086618	574.068227	574.050588	574.033435	574.016670
574.000589	573.986773	573.986998	574.031900	574.142934
574.247562	574.344768	574.435174	574.519496	574.598339
574.672206	574.741552	574.806848	574.868576	574.927169
574.982958	575.036177	575.086988	575.135509	575.181831
575.226034	575.268194	575.308393	575.346717	575.383252
575.418083	575.451290	575.482951	575.513139	575.541925
575.569383	575.595584	575.620601	575.644506	575.667373
575.689272	575.710273	575.730444	575.749851	575.768559
575.786632	575.804133	575.821120	575.837650	575.853774
575.869538	575.884981	575.900137	575.915033	575.929693
575.944135	575.958377	575.972437	575.986334	576.000092
576.013738	576.027302	576.040823	576.054340	576.067899
576.081552	576.095351	576.109356	576.123632	576.138244

Row 7

574.538138	574.590555	574.627990	574.653226	574.668438
574.675270	574.675015	574.668740	574.657347	574.641620
574.622242	574.599826	574.574916	574.548007	574.519545
574.489938	574.459554	574.428731	574.397771	574.366951
574.336518	574.306697	574.277688	574.249672	574.222807
574.197228	574.173039	574.150298	574.129007	574.109102
574.090457	574.072910	574.056315	574.040615	574.025973
574.013020	574.003423	573.999823	573.998919	573.998174
574.055049	574.163980	574.264117	574.356671	574.442532
574.522349	574.596671	574.666145	574.731524	574.793456
574.852367	574.908516	574.962062	575.013113	575.061749
575.108043	575.152072	575.193929	575.233717	575.271539
575.307495	575.341680	575.374178	575.405070	575.434433
575.462348	575.488893	575.514150	575.538201	575.561127
575.583006	575.603917	575.623933	575.643126	575.661568
575.679329	575.696478	575.713082	575.729203	575.744899
575.760219	575.775203	575.789885	575.804289	575.818433
575.832331	575.845995	575.859435	575.872665	575.885704
575.898575	575.911310	575.923943	575.936518	575.949079
575.961679	575.974373	575.987223	576.000296	576.013665

Row 8

574.394768	574.461033	574.509734	574.544903	574.569115
574.584162	574.591450	574.592149	574.587252	574.577612
574.563969	574.546973	574.527197	574.505154	574.481301
574.456052	574.429779	574.402820	574.375479	574.348030
574.320724	574.293785	574.267417	574.241799	574.217093

574.193432	574.170921	574.149628	574.129578	574.110753
574.093100	574.076553	574.061076	574.046722	574.033717
574.022566	574.014070	574.008716	574.005577	574.003545
574.002180	574.000903	574.071491	574.176262	574.272146
574.360174	574.440982	574.515515	574.585232	574.651213
574.713959	574.773712	574.830612	574.884748	574.936182
574.984972	575.031203	575.074985	575.116454	575.155745
575.192983	575.228276	575.261721	575.293405	575.323412
575.351828	575.378744	575.404252	575.428445	575.451417
575.473257	575.494048	575.513874	575.532811	575.550938
575.568333	575.585074	575.601237	575.616894	575.632110
575.646939	575.661424	575.675597	575.689478	575.703078
575.716403	575.729454	575.742235	575.754750	575.767012
575.779042	575.790867	575.802526	575.814060	575.825516
575.836946	575.848409	575.859968	575.871694	575.883666

Row 9

574.255775	574.335342	574.394343	574.439148	574.472196
574.495260	574.509852	574.517264	574.518597	574.514784
574.506624	574.494807	574.479936	574.462541	574.443093
574.422010	574.399669	574.376407	574.352530	574.328312
574.304002	574.279828	574.255993	574.232684	574.210062
574.188267	574.167411	574.147578	574.128817	574.111148
574.094570	574.079081	574.064703	574.051524	574.039733
574.029637	574.021565	574.015600	574.011353	574.008250
574.005803	574.003540	574.000975	573.997612	574.081362
574.181769	574.271625	574.351991	574.426873	574.498021
574.565706	574.630067	574.691218	574.749230	574.804139
574.855980	574.904842	574.950883	574.994300	575.035285
575.073999	575.110570	575.145105	575.177695	575.208432
575.237408	575.264728	575.290499	575.314832	575.337835
575.359611	575.380252	575.399847	575.418480	575.436236
575.453201	575.469464	575.485117	575.500243	575.514919
575.529206	575.543150	575.556779	575.570109	575.583140
575.595867	575.608278	575.620363	575.632116	575.643540
575.654652	575.665479	575.676061	575.686442	575.696671
575.706799	575.716884	575.726991	575.737198	575.747593

Row 10

574.135351	574.213197	574.281570	574.336273	574.378193
574.409098	574.430716	574.444531	574.451784	574.453504
574.450549	574.443652	574.433443	574.420469	574.405213
574.388100	574.369508	574.349774	574.329202	574.308067
574.286619	574.265084	574.243671	574.222570	574.201949
574.181957	574.162718	574.144331	574.126870	574.110384
574.094911	574.080482	574.067149	574.054997	574.044159
574.034801	574.027054	574.020900	574.016116	574.012355
574.009248	574.006433	574.003563	574.000318	573.996387
573.991287	574.086325	574.169864	574.251680	574.330176
574.404637	574.475156	574.541897	574.604955	574.664329
574.719994	574.772049	574.820756	574.866446	574.909406
574.949848	574.987922	575.023738	575.057390	575.088970
575.118581	575.146344	575.172392	575.196859	575.219877
575.241563	575.262020	575.281342	575.299617	575.316935
575.333392	575.349092	575.364145	575.378657	575.392721
575.406407	575.419765	575.432819	575.445574	575.458020
575.470134	575.481885	575.493244	575.504187	575.514706
575.524813	575.534538	575.543925	575.553023	575.561883
575.570553	575.579089	575.587556	575.596036	575.604632

Row 11

574.200833	574.087795	574.170531	574.236792	574.287775
574.326282	574.354561	574.374391	574.387200	574.394120
574.396067	574.393810	574.388005	574.379218	574.367937
574.354593	574.339564	574.323185	574.305758	574.287555
574.268825	574.249797	574.230684	574.211682	574.192967
574.174701	574.157021	574.140045	574.123865	574.108557
574.094181	574.080791	574.068445	574.057218	574.047194
574.038459	574.031055	574.024936	574.019950	574.015866
574.012422	574.009364	574.006472	574.003604	574.000812
573.998794	574.001980	574.004834	574.051538	574.141779
574.226158	574.305314	574.379727	574.449644	574.515020
574.575647	574.631611	574.683458	574.731810	574.777108
574.819618	574.859503	574.896869	574.931797	574.964376
574.994718	575.022971	575.049305	575.073898	575.096910
575.118479	575.138719	575.157726	575.175584	575.192385
575.208235	575.223259	575.237597	575.251387	575.264748
575.277765	575.290490	575.302941	575.315110	575.326967
575.338466	575.349551	575.360163	575.370253	575.379794
575.388793	575.397287	575.405334	575.412994	575.420320
575.427354	575.434139	575.440735	575.447228	575.453741

Row 12

574.714612	574.205356	574.062179	574.142377	574.201858
574.247533	574.281929	574.307257	574.325201	574.336957
574.343476	574.345561	574.343891	574.339045	574.331518
574.321740	574.310086	574.296889	574.282443	574.267017

574.250858	574.234197	574.217251	574.200226	574.183309
574.166676	574.150480	574.134856	574.119917	574.105756
574.092451	574.080067	574.068663	574.058298	574.049024
574.040879	574.033866	574.027932	574.022963	574.018795
574.015247	574.012148	574.009367	574.006870	574.004815
574.003730	574.004243	574.004671	574.003649	574.002060
574.022428	574.114506	574.200032	574.279798	574.353822
574.421234	574.481915	574.537370	574.588865	574.637003
574.682071	574.724217	574.763521	574.800036	574.833831
574.865027	574.893817	574.920439	574.945136	574.968116
574.989545	575.009542	575.028195	575.045577	575.061771
575.076886	575.091079	575.104541	575.117463	575.130006
575.142273	575.154318	575.166147	575.177731	575.189015
575.199923	575.210360	575.220225	575.229426	575.237905
575.245663	575.252758	575.259281	575.265314	575.270912
575.276103	575.280901	575.285342	575.289510	575.293562

Row 13

575.126980	574.735966	574.230398	574.054350	574.121219
574.173788	574.213318	574.243452	574.266098	574.282309
574.293044	574.299153	574.301340	574.300187	574.296189
574.289774	574.281310	574.271121	574.259493	574.246686
574.232944	574.218500	574.203577	574.188392	574.173148
574.158037	574.143231	574.128883	574.115125	574.102065
574.089794	574.078382	574.067885	574.058347	574.049799
574.042250	574.035685	574.030047	574.025246	574.021163
574.017670	574.014650	574.012025	574.009786	574.008028
574.006921	574.006443	574.006033	574.005208	574.004031
574.002660	574.001179	573.999679	574.089299	574.177274
574.255045	574.320569	574.379968	574.435322	574.487086
574.535462	574.580552	574.622387	574.660961	574.696289
574.728495	574.757854	574.784733	574.809492	574.832412
574.853684	574.873428	574.891710	574.908569	574.924053
574.938264	574.951401	574.963746	574.975593	574.987165
574.998590	575.009913	575.021115	575.032139	575.042896
575.053271	575.063120	575.072276	575.080572	575.087891
575.094224	575.099682	575.104428	575.108595	575.112241
575.115353	575.117889	575.119823	575.121215	575.122267

Row 14

575.482438	575.156188	574.766049	574.260507	574.047434
574.106958	574.148730	574.183085	574.210191	574.230451
574.244998	574.254801	574.260563	574.262853	574.262160
574.258908	574.253454	574.246106	574.237135	574.226789
574.215304	574.202915	574.189855	574.176356	574.162641
574.148922	574.135393	574.122226	574.109573	574.097557
574.086275	574.075802	574.066188	574.057465	574.049643
574.042716	574.036653	574.031399	574.026879	574.023001
574.019670	574.016805	574.014349	574.012286	574.010643
574.009440	574.008592	574.007868	574.007065	574.006159
574.005245	574.004500	574.004267	574.005381	574.010768
574.078617	574.142527	574.206873	574.267565	574.324324
574.377225	574.426339	574.471647	574.513037	574.550392
574.583793	574.613689	574.640725	574.665469	574.688296
574.709421	574.728942	574.746882	574.763209	574.777886
574.790958	574.802681	574.813526	574.823986	574.834387
574.844869	574.855440	574.866037	574.876560	574.886879
574.896835	574.906224	574.914786	574.922216	574.928259
574.932880	574.936319	574.938920	574.940911	574.942343
574.943125	574.943093	574.942086	574.940071	574.937301

Row 15

575.800779	575.518712	575.195836	574.812329	574.326219
574.048731	574.085592	574.126291	574.157992	574.181627
574.199492	574.212671	574.221739	574.227224	574.229617
574.229335	574.226722	574.222060	574.215595	574.207551
574.198156	574.187648	574.176273	574.164284	574.151931
574.139451	574.127064	574.114967	574.103328	574.092286
574.081948	574.072387	574.063644	574.055737	574.048660
574.042389	574.036883	574.032086	574.027932	574.024346
574.021256	574.018597	574.016324	574.014412	574.012850
574.011613	574.010635	574.009802	574.009026	574.008296
574.007695	574.007415	574.007831	574.009724	574.014603
574.019562	574.017688	574.015254	574.079606	574.143845
574.203337	574.258259	574.308613	574.354144	574.394376
574.429150	574.459340	574.486277	574.510879	574.533604
574.554645	574.574052	574.591772	574.607661	574.621494
574.633102	574.642776	574.651442	574.660037	574.669018
574.678465	574.688290	574.698349	574.708480	574.718508
574.728236	574.737406	574.745642	574.752391	574.757040
574.759429	574.760163	574.760034	574.759439	574.758369
574.756574	574.753673	574.749221	574.742890	574.734920

Row 16

576.092713	575.843898	575.565995	575.248420	574.872556
574.388221	574.021608	574.075546	574.110643	574.135764
574.156519	574.172903	574.185029	574.193454	574.198713

574.201224	574.201303	574.199194	574.195097	574.189205
574.181726	574.172905	574.163010	574.152329	574.141143
574.129724	574.118322	574.107161	574.096431	574.086290
574.076848	574.068177	574.060306	574.053233	574.046931
574.041360	574.036467	574.032192	574.028474	574.025248
574.022456	574.020046	574.017978	574.016223	574.014757
574.013548	574.012547	574.011696	574.010955	574.010327
574.009882	574.009763	574.010203	574.011497	574.013604
574.015035	574.014276	574.011976	574.008439	574.003401
574.006872	574.070749	574.128927	574.181141	574.226076
574.262154	574.291702	574.318011	574.342338	574.365036
574.386178	574.405714	574.423505	574.439280	574.452495
574.462256	574.468538	574.473676	574.479691	574.486997
574.495384	574.504548	574.514212	574.524134	574.534098
574.543888	574.553237	574.561712	574.568405	574.571679
574.570685	574.567289	574.563485	574.559779	574.555906
574.551327	574.545330	574.536976	574.525069	574.509238

Row 17

576.364791	576.142600	575.898106	575.624427	575.310431
574.935392	574.457374	574.041316	574.068075	574.091274
574.116029	574.135737	574.150589	574.161651	574.169563
574.174710	574.177368	574.177718	574.175886	574.172003
574.166256	574.158900	574.150247	574.140632	574.130386
574.119819	574.109218	574.098837	574.088897	574.079573
574.070985	574.063195	574.056212	574.050009	574.044531
574.039714	574.035491	574.031798	574.028573	574.025762
574.023315	574.021191	574.019353	574.017776	574.016432
574.015293	574.014326	574.013498	574.012789	574.012205
574.011792	574.011627	574.011800	574.012332	574.012974
574.013064	574.012005	574.009713	574.006209	574.001363
573.994941	573.986629	573.975987	573.988508	574.043955
574.079186	574.105048	574.130065	574.154201	574.177206
574.198877	574.219026	574.237444	574.253829	574.267505
574.275776	574.274757	574.273449	574.276103	574.281673
574.289157	574.297896	574.307439	574.317458	574.327698
574.337958	574.348060	574.357780	574.366317	574.369464
574.361542	574.350721	574.341873	574.334483	574.327512
574.319974	574.310799	574.298499	574.280077	574.249923

Row 18

576.621406	576.421582	576.203861	575.963349	575.692885
575.381416	575.010994	574.548696	574.000711	574.046003
574.079262	574.101726	574.118476	574.131843	574.142223
574.149886	574.155068	574.157853	574.158236	574.156240
574.152018	574.145863	574.138160	574.129324	574.119747
574.109790	574.099774	574.089992	574.080702	574.072105
574.064334	574.057434	574.051384	574.046111	574.041524
574.037527	574.034037	574.030983	574.028304	574.025952
574.023888	574.022079	574.020497	574.019118	574.017922
574.016884	574.015983	574.015196	574.014513	574.013936
574.013485	574.013184	574.013043	574.012995	574.012832
574.012211	574.010815	574.008481	574.005133	574.000681
573.995012	573.988014	573.979636	573.970107	573.961425
573.957476	573.963032	573.972400	573.982705	573.992886
574.002376	574.010787	574.025247	574.043390	574.059837
574.077742	574.047532	574.036828	574.036517	574.040894
574.048006	574.056852	574.066816	574.077483	574.088566
574.099891	574.111442	574.123553	574.137747	574.155403
574.119529	574.095820	574.080933	574.069363	574.058883
574.048047	574.035529	574.019773	573.999110	573.928381

Row 19

576.865654	576.685345	576.490264	576.276712	576.039609
575.771714	575.461971	575.090121	574.608059	574.010321
574.051408	574.070985	574.088248	574.103975	574.116693
574.126770	574.134515	574.139844	574.142492	574.142289
574.139344	574.134045	574.126921	574.118511	574.109290
574.099662	574.089980	574.080580	574.071771	574.063805
574.056827	574.050861	574.045824	574.041579	574.037976
574.034882	574.032193	574.029831	574.027742	574.025887
574.024235	574.022766	574.021459	574.020298	574.019269
574.018353	574.017536	574.016803	574.016144	574.015556
574.015039	574.014591	574.014181	574.013733	574.013097
574.012069	574.010458	574.008132	574.005013	574.001052
573.996229	573.990592	573.984351	573.978108	573.973238
573.971640	573.974385	573.980232	573.987514	573.995174
574.002561	574.009234	574.014877	574.019314	574.022683
574.024672	574.015169	574.003900	573.998141	573.996308
573.997098	573.999689	574.003527	574.008230	574.013532
574.019294	574.025561	574.032802	574.042682	574.055384
574.041336	574.025610	574.016210	574.009982	574.005024
574.000038	573.993937	573.985697	573.974342	573.956885

Row 20

577.099774	576.937000	576.761826	576.571304	576.361518
576.127084	575.860137	575.548059	575.169051	574.681522

574.049110	574.036215	574.059070	574.078305	574.092885
574.105220	574.115745	574.123984	574.129143	574.130669
574.128649	574.123712	574.116673	574.108263	574.099043
574.089434	574.079796	574.070507	574.061965	574.054515
574.048336	574.043401	574.039523	574.036456	574.033966
574.031873	574.030055	574.028437	574.026973	574.025640
574.024421	574.023307	574.022290	574.021362	574.020513
574.019734	574.019014	574.018343	574.017710	574.017109
574.016530	574.015953	574.015343	574.014629	574.013707
574.012449	574.010737	574.008480	574.005628	574.002174
573.998160	573.993717	573.989132	573.984948	573.982006
573.981208	573.982954	573.986820	573.991980	573.997681
574.003354	574.008573	574.013017	574.016427	574.018474
574.018140	574.014047	574.008564	574.004746	574.003205
574.003613	574.005526	574.008561	574.012412	574.016853
574.021737	574.027009	574.032686	574.038449	574.041440
574.036962	574.028936	574.021923	574.016395	574.011692
574.007065	574.001830	573.995427	573.987501	573.978530

Row 21

577.325400	577.178751	577.021613	576.851542	576.665354
576.458783	576.225886	575.957980	575.641750	575.254590
574.745020	573.986507	574.035958	574.055973	574.070191
574.084741	574.098629	574.110681	574.118982	574.122175
574.120468	574.115121	574.107494	574.098579	574.088989
574.079087	574.069164	574.059625	574.051043	574.043964
574.038640	574.034936	574.032468	574.030804	574.029595
574.028616	574.027740	574.026905	574.026090	574.025292
574.024514	574.023763	574.023042	574.022353	574.021694
574.021061	574.020448	574.019846	574.019247	574.018640
574.018012	574.017340	574.016588	574.015702	574.014611
574.013234	574.011497	574.009350	574.006773	574.003788
574.000472	573.996978	573.993575	573.990668	573.988766
573.988331	573.989553	573.992242	573.995958	574.000203
574.004535	574.008588	574.012055	574.014659	574.016072
574.015870	574.013966	574.011317	574.009226	574.008353
574.008784	574.010360	574.012858	574.016061	574.019774
574.023830	574.028064	574.032209	574.035602	574.036854
574.034881	574.030734	574.026191	574.022032	574.018256
574.014580	574.010697	574.006421	574.001870	573.997811

Row 22

577.543724	577.412176	577.271765	577.120416	576.955457
576.773382	576.569470	576.337162	576.066924	575.743665
575.340004	574.799658	574.039239	574.033528	574.046373
574.064425	574.082601	574.100598	574.113509	574.118116
574.115447	574.108397	574.099286	574.089326	574.079055
574.068625	574.058061	574.047737	574.038598	574.031677
574.027379	574.025308	574.024673	574.024738	574.025021
574.025270	574.025388	574.025356	574.025192	574.024925
574.024583	574.024191	574.023765	574.023316	574.022851
574.022369	574.021869	574.021345	574.020787	574.020187
574.019529	574.018792	574.017947	574.016954	574.015766
574.014335	574.012620	574.010599	574.008277	574.005695
574.002941	574.000162	573.997577	573.995471	573.994160
573.993901	573.994791	573.996729	573.999454	574.002640
574.005957	574.009110	574.011839	574.013911	574.015112
574.015299	574.014580	574.013446	574.012538	574.012306
574.012921	574.014363	574.016521	574.019245	574.022375
574.025742	574.029137	574.032255	574.034602	574.035549
574.034774	574.032668	574.029988	574.027265	574.024686
574.022237	574.019868	574.017624	574.015779	574.014954

Row 23

577.755599	577.638393	577.513776	577.379967	577.234684
577.074976	576.896957	576.695390	576.462970	576.188946
575.856395	575.436039	574.861887	573.974145	574.023077
574.043248	574.065272	574.095171	574.115998	574.120702
574.114117	574.103238	574.091629	574.080159	574.069081
574.058174	574.046668	574.034626	574.023900	574.016783
574.013973	574.014345	574.016245	574.018484	574.020479
574.022041	574.023167	574.023922	574.024384	574.024623
574.024696	574.024647	574.024505	574.024292	574.024020
574.023692	574.023310	574.022869	574.022363	574.021782
574.021112	574.020336	574.019433	574.018375	574.017134
574.015686	574.014012	574.012113	574.010010	574.007753
574.005431	574.003171	574.001144	573.999549	573.998586
573.998407	573.999064	574.000494	574.002531	574.004952
574.007519	574.010003	574.012199	574.013934	574.015078
574.015590	574.015583	574.015337	574.015206	574.015477
574.016305	574.017720	574.019670	574.022057	574.024752
574.027603	574.030417	574.032944	574.034868	574.035888
574.035889	574.035054	574.033751	574.032317	574.030960
574.029787	574.028889	574.028425	574.028692	574.030165

Row 24

577.961608	577.858165	577.748664	577.631567	577.504915
577.366190	577.212127	577.038422	576.839270	576.606584
576.328561	575.986596	575.547121	574.940147	574.029541
574.013515	574.036622	574.099460	574.134316	574.133326
574.115841	574.098223	574.083696	574.070428	574.058663
574.048205	574.035866	574.020177	574.005457	573.997549
573.997526	574.002008	574.007546	574.012463	574.016324
574.019194	574.021270	574.022744	574.023769	574.024464
574.024915	574.025182	574.025308	574.025320	574.025235
574.025061	574.024800	574.024449	574.024003	574.023452
574.022785	574.021989	574.021051	574.019953	574.018684
574.017233	574.015602	574.013805	574.011875	574.009868
574.007864	574.005971	574.004319	574.003050	574.002294
574.002145	574.002630	574.003704	574.005256	574.007130
574.009151	574.011149	574.012968	574.014485	574.015620
574.016366	574.016806	574.017112	574.017493	574.018134
574.019153	574.020588	574.022420	574.024583	574.026978
574.029479	574.031933	574.034156	574.035954	574.037172
574.037765	574.037838	574.037597	574.037266	574.037036
574.037057	574.037485	574.038518	574.040439	574.043617

Row 25

578.162116	578.071977	577.977075	577.876093	577.767348
577.648686	577.517334	577.369696	577.201047	577.005059
576.772988	576.492166	576.142915	575.691344	575.060654
573.789625	573.976702	574.134681	574.186841	574.159061
574.115076	574.089687	574.075077	574.059095	574.046241
574.040016	574.028865	574.004742	573.979615	573.970183
573.976918	573.988876	573.999480	574.007392	574.013033
574.017036	574.019894	574.021952	574.023440	574.024518
574.025293	574.025840	574.026208	574.026431	574.026526
574.026504	574.026366	574.026111	574.025731	574.025220
574.024568	574.023766	574.022806	574.021681	574.020390
574.018938	574.017336	574.015613	574.013807	574.011976
574.010194	574.008551	574.007147	574.006084	574.005450
574.005303	574.005658	574.006479	574.007688	574.009171
574.010801	574.012451	574.014007	574.015380	574.016518
574.017423	574.018152	574.018813	574.019537	574.020444
574.021617	574.023094	574.024867	574.026892	574.029097
574.031386	574.033643	574.035743	574.037565	574.039026
574.040112	574.040892	574.041501	574.042103	574.042861
574.043937	574.045503	574.047767	574.050982	574.055450

Row 26

578.357306	578.280082	578.199363	578.114038	578.022676
577.923440	577.813970	577.691233	577.551314	577.389119
577.197925	576.968611	576.688205	576.336423	575.875044
575.215026	574.092418	574.262526	574.310449	574.190944
574.089307	574.071743	574.070778	574.044458	574.024472
574.036773	574.036756	573.990132	573.935472	573.925622
573.952339	573.977429	573.993863	574.004283	574.011139
574.015852	574.019204	574.021649	574.023466	574.024832
574.025868	574.026651	574.027235	574.027651	574.027919
574.028046	574.028034	574.027878	574.027573	574.027109
574.026480	574.025679	574.024702	574.023552	574.022237
574.020770	574.019176	574.017490	574.015758	574.014038
574.012398	574.010914	574.009666	574.008728	574.008163
574.008006	574.008262	574.008903	574.009869	574.011077
574.012431	574.013837	574.015210	574.016486	574.017629
574.018641	574.019560	574.020455	574.021411	574.022507
574.023803	574.025327	574.027080	574.029033	574.031133
574.033312	574.035487	574.037574	574.039499	574.041218
574.042731	574.044092	574.045400	574.046782	574.048382
574.050352	574.052866	574.056118	574.060337	574.065777

Row 27

578.547208	578.482544	578.415642	578.345592	578.271201
578.190923	578.102757	578.004132	577.891755	577.761424
577.607782	577.423959	577.200977	576.926588	576.583109
576.145121	575.575760	574.777290	574.556109	574.175819
573.957229	574.056935	574.095907	574.023092	573.960139
574.047422	574.093813	573.982037	573.834977	573.843116
573.933757	573.973918	573.993262	574.004109	574.011027
574.015812	574.019284	574.021884	574.023877	574.025431
574.026659	574.027635	574.028405	574.028999	574.029432
574.029708	574.029824	574.029775	574.029551	574.029142
574.028540	574.027742	574.026748	574.025567	574.024213
574.022710	574.021093	574.019404	574.017695	574.016025
574.014458	574.013063	574.011904	574.011037	574.010506
574.010334	574.010518	574.011034	574.011832	574.012850
574.014013	574.015251	574.016500	574.017711	574.018859
574.019943	574.020988	574.022040	574.023155	574.024387
574.025777	574.027350	574.029109	574.031034	574.033092
574.035233	574.037403	574.039545	574.041616	574.043592
574.045483	574.047333	574.049222	574.051254	574.053552
574.056260	574.059537	574.063564	574.068543	574.074697

Row 28

578.731726	578.679268	578.625829	578.570697	578.512916
578.451215	578.383919	578.308850	578.223201	578.123409
578.005018	577.862563	577.689473	577.478083	577.220025
576.907827	576.538850	576.128084	575.727313	575.395921
575.176802	575.095370	575.032963	574.918126	574.802170
574.727312	574.628592	574.449544	574.204332	573.845661
573.953923	573.985856	573.999088	574.007027	574.012657
574.016870	574.020103	574.022638	574.024664	574.026311
574.027669	574.028795	574.029728	574.030487	574.031080
574.031506	574.031758	574.031823	574.031688	574.031340
574.030770	574.029974	574.028957	574.027729	574.026316
574.024749	574.023070	574.021332	574.019593	574.017915
574.016363	574.014999	574.013878	574.013044	574.012527
574.012340	574.012476	574.012909	574.013598	574.014490
574.015529	574.016656	574.017823	574.018993	574.020146
574.021279	574.022409	574.023567	574.024791	574.026119
574.027584	574.029203	574.030982	574.032912	574.034970
574.037124	574.039338	574.041577	574.043814	574.046039
574.048266	574.050534	574.052907	574.055473	574.058342
574.061639	574.065510	574.070120	574.075651	574.082298

Row 29

578.910658	578.870028	578.829673	578.789088	578.747554
578.704075	578.657289	578.605366	578.545895	578.475757
578.391039	578.287011	578.156599	577.992189	577.792313
577.557488	577.292493	577.010069	576.730611	576.473882
576.257756	576.083692	575.925873	575.762170	575.593498
575.420795	575.225794	574.984283	574.675661	574.253394
574.020715	574.009218	574.008477	574.011751	574.015471
574.018759	574.021519	574.023827	574.025775	574.027439
574.028876	574.030123	574.031200	574.032117	574.032871
574.033455	574.033852	574.034043	574.034009	574.033731
574.033196	574.032398	574.031345	574.030052	574.028550
574.026880	574.025095	574.023257	574.021432	574.019690
574.018098	574.016716	574.015593	574.014765	574.014252
574.014057	574.014167	574.014554	574.015181	574.016000
574.016964	574.018025	574.019144	574.020292	574.021450
574.022618	574.023805	574.025033	574.026331	574.027727
574.029247	574.030907	574.032716	574.034670	574.036756
574.038956	574.041246	574.043605	574.046017	574.048481
574.051008	574.053633	574.056410	574.059412	574.062733
574.066485	574.070798	574.075821	574.081717	574.088663

Row 30

579.083715	579.054487	579.026787	579.000324	578.974629
578.948991	578.922365	578.893265	578.859621	578.818639
578.764810	578.685795	578.579592	578.445949	578.285363
578.099878	577.894104	577.675852	577.454806	577.238782
577.029390	576.821145	576.616828	576.410855	576.198240
575.973243	575.724343	575.434546	575.079999	574.617021
574.076189	574.021413	574.015124	574.016375	574.018728
574.021117	574.023328	574.025327	574.027129	574.028762
574.030246	574.031594	574.032809	574.033885	574.034810
574.035564	574.036123	574.036459	574.036541	574.036343
574.035847	574.035044	574.033939	574.032555	574.030927
574.029108	574.027162	574.025164	574.023193	574.021328
574.019642	574.018199	574.017043	574.016205	574.015693
574.015502	574.015610	574.015986	574.016591	574.017380
574.018311	574.019342	574.020440	574.021580	574.022747
574.023938	574.025162	574.026436	574.027781	574.029222
574.030781	574.032476	574.034316	574.036305	574.038437
574.040702	574.043088	574.045580	574.048171	574.050859
574.053657	574.056590	574.059702	574.063054	574.066725
574.070812	574.075430	574.080712	574.086807	574.093877

Row 31

579.250545	579.232223	579.216670	579.203817	579.193464
579.185205	579.178344	579.171762	579.163746	579.146758
579.106863	579.043413	578.956476	578.846442	578.714325
578.562141	578.393210	578.212026	578.023264	577.829946
577.631490	577.422564	577.194259	576.955404	576.708634
576.447543	576.162192	575.837615	575.449773	574.949048
574.147654	574.008739	574.017911	574.020436	574.022009
574.023640	574.025324	574.026995	574.028628	574.030210
574.031732	574.033180	574.034536	574.035782	574.036893
574.037840	574.038586	574.039092	574.039314	574.039214
574.038764	574.037950	574.036776	574.035267	574.033468
574.031442	574.029270	574.027042	574.024854	574.022801
574.020968	574.019423	574.018210	574.017352	574.016848
574.016679	574.016815	574.017215	574.017837	574.018635
574.019569	574.020600	574.021699	574.022843	574.024020
574.025228	574.026474	574.027772	574.029143	574.030609
574.032192	574.033911	574.035780	574.037807	574.039994
574.042337	574.044829	574.047463	574.050231	574.053134
574.056177	574.059379	574.062771	574.066400	574.070332
574.074647	574.079448	574.084852	574.090995	574.098027

Row 32

579.410752	579.402756	579.398737	579.398863	579.403218
579.411737	579.424120	579.439685	579.452290	579.444603
579.415437	579.365014	579.293674	579.202015	579.091049
578.962348	578.818064	578.660669	578.492305	578.313821
578.123824	577.918132	577.689829	577.431411	577.157763
576.869777	576.558296	576.209569	575.801444	575.291609
574.573375	574.014284	574.024802	574.024795	574.025146
574.026116	574.027333	574.028695	574.030166	574.031708
574.033280	574.034841	574.036356	574.037792	574.039116
574.040287	574.041256	574.041969	574.042365	574.042389
574.041997	574.041167	574.039901	574.038228	574.036201
574.033900	574.031421	574.028877	574.026389	574.024074
574.022035	574.020349	574.019061	574.018185	574.017705
574.017587	574.017785	574.018248	574.018925	574.019770
574.020739	574.021797	574.022916	574.024076	574.025266
574.026484	574.027738	574.029043	574.030418	574.031889
574.033479	574.035210	574.037100	574.039164	574.041407
574.043834	574.046440	574.049220	574.052167	574.055276
574.058547	574.061988	574.065617	574.069465	574.073582
574.078034	574.082908	574.088310	574.094363	574.101206

Row 33

579.563916	579.565567	579.572348	579.584669	579.602917
579.627405	579.658290	579.693697	579.713979	579.714020
579.694150	579.654714	579.596142	579.519030	579.424207
579.312766	579.185992	579.045128	578.890956	578.723255
578.540292	578.338488	578.112309	577.854185	577.561580
577.253175	576.922940	576.558281	576.139866	575.634747
574.975898	574.060577	574.035564	574.027967	574.027786
574.028407	574.029216	574.030293	574.031637	574.033178
574.034835	574.036540	574.038241	574.039896	574.041466
574.042903	574.044145	574.045117	574.045737	574.045922
574.045609	574.044762	574.043378	574.041492	574.039170
574.036506	574.033621	574.030656	574.027764	574.025096
574.022783	574.020917	574.019544	574.018664	574.018242
574.018217	574.018522	574.019092	574.019867	574.020794
574.021830	574.022941	574.024098	574.025282	574.026486
574.027707	574.028956	574.030248	574.031608	574.033061
574.034637	574.036363	574.038263	574.040356	574.042654
574.045166	574.047890	574.050821	574.053950	574.057266
574.060758	574.064421	574.068256	574.072279	574.076520
574.081030	574.085881	574.091166	574.097001	574.103516

Row 34

579.709626	579.720137	579.736844	579.760400	579.791501
579.830867	579.879177	579.924637	579.950679	579.957629
579.945874	579.915798	579.867829	579.802473	579.720336
579.622105	579.508457	579.379875	579.236374	579.077173
578.900386	578.702785	578.479637	578.224487	577.928789
577.605126	577.261941	576.887621	576.465191	575.967524
575.343840	574.459244	574.018690	574.027563	574.030233
574.030553	574.030840	574.031644	574.032930	574.034543
574.036346	574.038239	574.040161	574.042069	574.043926
574.045682	574.047262	574.048568	574.049482	574.049887
574.049685	574.048821	574.047289	574.045132	574.042430
574.039298	574.035883	574.032362	574.028932	574.025796
574.023127	574.021042	574.019587	574.018739	574.018427
574.018555	574.019026	574.019756	574.020673	574.021721
574.022856	574.024042	574.025253	574.026472	574.027689
574.028905	574.030133	574.031393	574.032712	574.034123
574.035661	574.037360	574.039252	574.041361	574.043708
574.046304	574.049150	574.052240	574.055560	574.059091
574.062808	574.066689	574.070718	574.074886	574.079205
574.083707	574.088450	574.093516	574.099012	574.105065

Row 35

579.847497	579.865976	579.891594	579.925230	579.967887
580.020693	580.083036	580.133017	580.164367	580.177541
580.172943	580.150952	580.111944	580.056313	579.984459
579.896751	579.793448	579.674553	579.539631	579.387595
579.216495	579.023338	578.803909	578.552529	578.261619
577.929973	577.578780	577.199873	576.778017	576.289640
575.691394	574.870988	574.006575	574.033549	574.034272
574.032495	574.031943	574.032561	574.033935	574.035746
574.037778	574.039912	574.042086	574.044278	574.046465
574.048602	574.050607	574.052351	574.053667	574.054377
574.054335	574.053458	574.051741	574.049240	574.046057
574.042329	574.038228	574.033975	574.029830	574.026071
574.022941	574.020600	574.019087	574.018339	574.018224
574.018592	574.019306	574.020257	574.021365	574.022572
574.023835	574.025120	574.026401	574.027661	574.028891
574.030093	574.031282	574.032484	574.033733	574.035070
574.036539	574.038184	574.040043	574.042153	574.044537
574.047214	574.050186	574.053447	574.056975	574.060739
574.064701	574.068815	574.073041	574.077346	574.081714
574.086157	574.090716	574.095466	574.100511	574.105975

Row 36

579.977207	580.002661	580.036037	580.078411	580.131056
580.195481	580.266203	580.320380	580.356657	580.375495
580.377290	580.362392	580.331115	580.283738	580.220491
580.141505	580.046751	579.935925	579.808322	579.662681
579.497038	579.308573	579.093442	578.846543	578.561121
578.230407	577.875731	577.496710	577.079604	576.603937
576.034004	575.290678	574.077533	574.054372	574.038449
574.033068	574.032009	574.032826	574.034570	574.036760
574.039127	574.041546	574.043992	574.046481	574.049032
574.051622	574.054165	574.056496	574.058373	574.059522
574.059710	574.058822	574.056865	574.053931	574.050150
574.045674	574.040697	574.035482	574.030372	574.025769
574.022040	574.019410	574.017904	574.017378	574.017598
574.018328	574.019380	574.020621	574.021970	574.023374
574.024794	574.026200	574.027568	574.028876	574.030117
574.031291	574.032419	574.033532	574.034675	574.035899
574.037261	574.038815	574.040612	574.042696	574.045103
574.047855	574.050960	574.054408	574.058170	574.062202
574.066444	574.070828	574.075281	574.079736	574.084144
574.088491	574.092800	574.097142	574.101623	574.106372

Row 37

580.098514	580.129872	580.169740	580.219342	580.280161
580.354011	580.429795	580.487984	580.528879	580.552931
580.560521	580.551959	580.527499	580.487320	580.431516
580.360046	580.272680	580.168919	580.047888	579.908234
579.748003	579.564515	579.354209	579.112434	578.833092
578.508292	578.154465	577.779446	577.370982	576.911746
576.373554	575.700312	574.722869	574.055185	574.034040
574.030373	574.030584	574.032324	574.034837	574.037634
574.040437	574.043158	574.045850	574.048617	574.051547
574.054660	574.057882	574.061015	574.063706	574.065503
574.066024	574.065110	574.062827	574.059343	574.054830
574.049443	574.043365	574.036882	574.030446	574.024665
574.020133	574.017199	574.015844	574.015760	574.016530
574.017790	574.019291	574.020894	574.022528	574.024159
574.025763	574.027314	574.028785	574.030152	574.031400
574.032531	574.033568	574.034553	574.035544	574.036606
574.037812	574.039229	574.040922	574.042950	574.045358
574.048178	574.051422	574.055079	574.059113	574.063464
574.068048	574.072765	574.077504	574.082153	574.086618
574.090846	574.094845	574.098685	574.102484	574.106392

Row 38

580.211287	580.247427	580.292443	580.347646	580.414639
580.495423	580.574810	580.636867	580.682132	580.711048
580.723972	580.721181	580.702870	580.669141	580.619981
580.555229	580.474518	580.377218	580.262355	580.128526
579.973803	579.795622	579.590649	579.354591	579.081891
578.765224	578.416434	578.049164	577.652698	577.212783
576.708097	576.101511	575.312881	574.053060	574.019638
574.025212	574.027905	574.031164	574.034877	574.038526
574.041831	574.044797	574.047629	574.050591	574.053879
574.057569	574.061634	574.065883	574.069806	574.072607
574.073598	574.072578	574.069802	574.065619	574.060246
574.053796	574.046380	574.038233	574.029916	574.022401
574.016747	574.013544	574.012646	574.013395	574.015047
574.017053	574.019122	574.021141	574.023088	574.024967
574.026775	574.028495	574.030092	574.031531	574.032786
574.033854	574.034764	574.035570	574.036348	574.037186
574.038173	574.039396	574.040935	574.042864	574.045243
574.048117	574.051508	574.055405	574.059763	574.064503
574.069516	574.074665	574.079789	574.084718	574.089289
574.093397	574.097024	574.100254	574.103242	574.106171

Row 39

580.315515	580.355300	580.404096	580.463224	580.534309
580.619348	580.702062	580.767876	580.817324	580.850837
580.868752	580.871316	580.858678	580.830880	580.787835
580.729291	580.654795	580.563633	580.454771	580.326783
580.177774	580.005279	579.806148	579.576376	579.310849
579.002919	578.663151	578.306928	577.925087	577.506133
577.034329	576.485645	575.817567	574.927400	574.018460
574.020987	574.024372	574.029580	574.035003	574.039753
574.043541	574.046555	574.049275	574.052249	574.055832
574.060114	574.065153	574.070957	574.076863	574.081334
574.082956	574.081545	574.077936	574.072876	574.066560
574.058960	574.050031	574.039749	574.028651	574.018384
574.011055	574.007765	574.007980	574.010261	574.013283
574.016284	574.019005	574.021451	574.023703	574.025831
574.027861	574.029779	574.031537	574.033073	574.034338
574.035319	574.036051	574.036610	574.037100	574.037634
574.038326	574.039283	574.040602	574.042375	574.044683
574.047592	574.051135	574.055307	574.060056	574.065280
574.070841	574.076561	574.082227	574.087582	574.092363
574.096369	574.099551	574.102031	574.104043	574.105839

Row 40

580.411319	580.453641	580.504878	580.566294	580.639425
580.726180	580.812207	580.881703	580.935197	580.973112
580.995769	581.003393	580.996100	580.973890	580.936623
580.883991	580.815481	580.730331	580.627475	580.505481
580.362486	580.196110	580.003349	579.780431	579.522596
579.223746	578.896405	578.553996	578.188657	577.791155
577.349817	576.848567	576.262441	575.543819	574.560645
574.013140	574.019316	574.027880	574.035783	574.041882
574.045960	574.048578	574.050661	574.053312	574.057161
574.061986	574.067869	574.075736	574.085124	574.092696
574.095058	574.092331	574.087175	574.081147	574.073939
574.065205	574.054865	574.042083	574.026651	574.011525
574.001475	573.998725	574.001498	574.006551	574.011600
574.015789	574.019134	574.021924	574.024419	574.026770
574.029038	574.031200	574.033175	574.034854	574.036143
574.037008	574.037494	574.037712	574.037810	574.037941
574.038245	574.038848	574.039865	574.041409	574.043587
574.046493	574.050189	574.054682	574.059908	574.065737
574.071995	574.078474	574.084909	574.090936	574.096118
574.100077	574.102701	574.104213	574.105026	574.105503

Row 41

580.498950	580.542765	580.595195	580.657380	580.730682
580.816749	580.905766	580.978899	581.036346	581.078526
581.105754	581.118239	581.116077	581.099243	581.067564
581.020700	580.958105	580.878991	580.782277	580.666539
580.529946	580.370184	580.184364	579.968891	579.719279
579.430183	579.118364	578.791982	578.444371	578.068039
577.654100	577.191252	576.663544	576.044396	575.275035
574.123899	574.012625	574.026889	574.038239	574.045883
574.049683	574.051108	574.051480	574.053138	574.057666
574.063125	574.068599	574.078572	574.094815	574.109106
574.111907	574.104882	574.096753	574.090424	574.082657
574.072576	574.061770	574.047152	574.024522	573.999536
573.984624	573.984529	573.993133	574.003029	574.010774
574.016056	574.019735	574.022638	574.025242	574.027768
574.030293	574.032775	574.035071	574.036982	574.038329
574.039037	574.039174	574.038919	574.038490	574.038094
574.037900	574.038047	574.038663	574.039880	574.041838
574.044682	574.048520	574.053385	574.059200	574.065786
574.072919	574.080380	574.087900	574.095008	574.100958
574.104992	574.106844	574.106995	574.106284	574.105240

Row 42

580.578774	580.623140	580.675653	580.737281	580.809148
580.892557	580.983138	581.059888	581.121232	581.167591
581.199278	581.216498	581.219342	581.207771	581.181601
581.140478	581.083843	581.010901	580.920574	580.811451
580.681730	580.529150	580.350903	580.143523	579.902721
579.625448	579.331583	579.022917	578.693759	578.337892
577.948286	577.516550	577.031709	576.477049	575.820692
574.980308	574.013596	574.026571	574.044403	574.053450
574.055316	574.054819	574.051144	574.049673	574.057415
574.065437	574.064955	574.073859	574.105562	574.137278
574.138278	574.116980	574.103545	574.101487	574.093882
574.079463	574.071430	574.060824	574.025208	573.976574
573.952266	573.962420	573.984165	574.001773	574.012229
574.017694	574.020953	574.023575	574.026109	574.028748
574.031566	574.034497	574.037303	574.039617	574.041092
574.041580	574.041204	574.040274	574.039134	574.038064
574.037252	574.036835	574.036933	574.037692	574.039299
574.041973	574.045913	574.051213	574.057779	574.065323
574.073513	574.082160	574.091164	574.100042	574.107515
574.111918	574.112525	574.110466	574.107761	574.105166

Row 43

580.651251	580.695358	580.747016	580.807001	580.876166
580.955438	581.044609	581.124981	581.190195	581.240682
581.276764	581.298652	581.306440	581.300095	581.279436
581.244112	581.193571	581.127029	581.043422	580.941359
580.819068	580.674325	580.504376	580.305832	580.074525
579.812989	579.538924	579.249213	578.938888	578.602602
578.234508	577.828001	577.375086	576.864788	576.278651
575.575758	574.612229	574.016224	574.062380	574.067166
574.061528	574.062649	574.049804	574.034551	574.056298
574.080860	574.052208	574.041735	574.113219	574.198155
574.186466	574.116502	574.096463	574.120837	574.113731
574.076419	574.079276	574.103061	574.039694	573.924405
573.880820	573.931680	573.980227	574.007297	574.018059
574.021038	574.022581	574.024551	574.026867	574.029543
574.032707	574.036298	574.039959	574.043013	574.044757
574.044903	574.043721	574.041799	574.039704	574.037797
574.036255	574.035169	574.034624	574.034758	574.035810
574.038119	574.042057	574.047866	574.055480	574.064275
574.073678	574.083518	574.094340	574.106159	574.116832
574.122433	574.120676	574.114266	574.108835	574.105822

Row 44

580.716913	580.760091	580.810149	580.867664	580.933221
581.007388	581.090646	581.174379	581.243460	581.298055
581.338503	581.365030	581.377751	581.376647	581.361558
581.332155	581.287912	581.228068	581.151590	581.057116
580.942904	580.806757	580.645948	580.457118	580.236401
579.996337	579.743436	579.473587	579.182281	578.864678
578.515598	578.129435	577.699952	577.219816	576.679200
576.060424	575.316564	574.257277	574.128340	574.085002
574.054936	574.084971	574.061361	573.969088	574.048044
574.154637	573.993968	573.915252	574.099096	574.329990
574.247811	574.057594	574.035707	574.185763	574.161212
574.027755	574.026121	574.259928	574.097268	573.790305
573.739371	573.913322	573.995721	574.027327	574.030248
574.024876	574.023599	574.025293	574.027312	574.029874
574.033422	574.037973	574.043126	574.047608	574.049899
574.049428	574.046871	574.043440	574.040076	574.037193
574.034856	574.033033	574.031724	574.031023	574.031204
574.032791	574.036470	574.042841	574.051939	574.062740
574.073529	574.083888	574.096193	574.112817	574.130663
574.140114	574.133375	574.116508	574.106397	574.109519

Row 45

580.776336	580.818059	580.865963	580.920434	580.981820
581.050372	581.126173	581.208181	581.281142	581.339845
581.384653	581.415822	581.433492	581.437680	581.428262
581.404946	581.367250	581.314459	581.245583	581.159306
581.053918	580.927247	580.776571	580.598519	580.394916
580.178907	579.948218	579.698964	579.426818	579.127129
578.794949	578.425020	578.011783	577.549708	577.034551
576.465783	575.846135	575.163051	574.415953	574.166749
574.328611	574.600189	574.818178	575.020199	575.359447
575.690656	575.932176	576.099609	576.245043	576.338708
576.308015	576.185875	576.068148	575.988989	575.910372
575.826661	575.780564	575.777455	575.692266	575.533572
575.290532	574.886301	574.268985	574.075839	574.046326
574.023134	574.022007	574.026367	574.027167	574.029286
574.033206	574.038938	574.046802	574.054258	574.057638
574.055836	574.050722	574.044925	574.039971	574.036095
574.033005	574.030448	574.028306	574.026536	574.025367
574.025575	574.028389	574.035172	574.046693	574.061297
574.074195	574.082569	574.093233	574.116992	574.151500
574.173952	574.156454	574.111437	574.086216	574.123457

Row 46

580.830107	580.869991	580.915361	580.966444	581.023385
581.086190	581.154653	581.228226	581.303253	581.366076
581.415253	581.451078	581.473734	581.483285	581.479657
581.462619	581.431750	581.386404	581.325659	581.248258
581.152541	581.036362	580.896993	580.732837	580.554942
580.363855	580.155612	579.925478	579.670614	579.387469
579.071486	578.716834	578.316111	577.861225	577.350153
576.792847	576.232815	575.744262	575.409336	575.323860
575.445153	575.674810	575.949283	576.259167	576.607807
576.959753	577.276050	577.533266	577.715266	577.804378
577.796584	577.719970	577.616128	577.506858	577.390620
577.263882	577.131209	576.988239	576.815314	576.601851
576.338630	576.011324	575.612494	575.127637	574.490859
573.999172	574.016469	574.033038	574.024442	574.027321
574.031541	574.037397	574.050574	574.064867	574.070332
574.065185	574.054933	574.045446	574.038838	574.034315
574.030696	574.027493	574.024578	574.021588	574.018351
574.016027	574.016678	574.022856	574.037958	574.061308
574.080465	574.080198	574.076281	574.107904	574.179288
574.248783	574.205863	574.087770	573.996488	574.091132

Row 47

580.878806	580.916588	580.959200	581.006738	581.059191
581.116394	581.177949	581.243132	581.310762	581.376663
581.430223	581.470724	581.498404	581.513389	581.515675
581.505111	581.481361	581.443874	581.391820	581.324036
581.238934	581.134412	581.008750	580.869969	580.715983
580.542455	580.348450	580.132312	579.891624	579.623076
579.322190	578.982855	578.596573	578.151459	577.632339
577.033862	576.447738	576.070560	575.922885	575.958497
576.133585	576.401387	576.729712	577.103478	577.511085
577.930796	578.330575	578.669485	578.902623	579.002779
578.984284	578.893625	578.774727	578.646328	578.504736
578.340733	578.151975	577.941103	577.709137	577.454142
577.171307	576.855265	576.503933	576.116693	575.690949
575.221533	574.695236	574.026076	574.008721	574.026506
574.029813	574.026517	574.052736	574.084459	574.093263
574.078804	574.057721	574.042947	574.035850	574.031850
574.028068	574.024208	574.020889	574.017083	574.010603
574.003759	574.000196	574.002013	574.019474	574.063239
574.108366	574.087045	574.019032	574.055973	574.192162

574.413364	574.694388	575.406386	575.975972	576.447621

Row 48

580.922987	580.958508	580.998260	581.042240	581.090329
581.142251	581.197509	581.255313	581.314494	581.373409
581.429364	581.474554	581.507288	581.527766	581.536076
581.532165	581.515813	581.486592	581.443807	581.386421
581.312965	581.223353	581.122110	581.001862	580.861637
580.701399	580.520428	580.317316	580.089886	579.835013
579.548259	579.223192	578.850014	578.412592	577.880881
577.188364	576.334866	576.172091	576.218495	576.375659
576.621900	576.941147	577.320800	577.752415	578.227922
578.733112	579.239157	579.689339	579.996711	580.098575
580.031433	579.891395	579.744848	579.604612	579.449452
579.255135	579.017749	578.751632	578.471651	578.182322
577.879371	577.557795	577.217964	576.864822	576.503850
576.137799	575.760958	575.344329	574.853437	574.203780
574.051700	573.973235	574.050409	574.127764	574.138297
574.096764	574.052726	574.032726	574.030598	574.029538
574.025659	574.020164	574.017179	574.015885	574.003312
573.987729	573.979953	573.968438	573.969951	574.054476
574.191320	574.199052	573.937815	575.046517	575.836180
576.467177	576.949569	577.333736	577.654344	577.911173

Row 49

580.963160	580.996343	581.033228	581.073740	581.117694
581.164755	581.214396	581.265841	581.318015	581.369496
581.418496	581.462891	581.500031	581.526034	581.540442
581.543326	581.534611	581.514032	581.481069	581.435491
581.380178	581.313885	581.226864	581.119041	580.991026
580.842843	580.673918	580.483041	580.268264	580.026693
579.754095	579.444129	579.086758	578.664527	578.142048
577.425283	576.320289	576.152371	576.398458	576.668438
576.979684	577.347116	577.772757	578.256715	578.799453
579.399370	580.042713	580.670400	581.088304	581.179852
580.994316	580.760324	580.583607	580.452923	580.306145
580.085718	579.790894	579.463561	579.138082	578.821150
578.500647	578.165997	577.820725	577.476760	577.144294
576.827668	576.524367	576.225203	575.917631	575.580396
575.153479	574.526592	574.052900	574.235440	574.229366
574.110664	574.019967	574.004819	574.027527	574.029716
574.025347	574.013517	574.008696	574.028164	574.001248
573.960279	573.958367	573.961378	573.810340	574.537549
575.278644	575.890074	576.436940	576.992310	577.517662
577.983154	578.370442	578.676167	578.912206	579.081369

Row 50

580.999786	581.030620	581.064694	581.101892	581.141995
581.184653	581.229353	581.275384	581.321810	581.367453
581.410897	581.450542	581.484698	581.511748	581.530338
581.539577	581.539167	581.529429	581.511176	581.485465
581.451231	581.396405	581.319967	581.222889	581.105698
580.968449	580.810685	580.631381	580.428845	580.200518
579.942624	579.649525	579.312470	578.917081	578.438267
577.833314	577.045460	576.163470	576.557334	576.884574
577.239339	577.643658	578.105384	578.630635	579.228851
579.915757	580.714443	581.459692	581.868000	581.983309
581.822956	581.480260	581.294907	581.227733	581.139290
580.888472	580.498547	580.087555	579.718380	579.388527
579.059255	578.703978	578.337776	577.987917	577.669531
577.386194	577.134739	576.908220	576.697428	576.489813
576.267963	576.019812	575.736940	575.364882	574.604797
574.095992	573.895477	573.936291	574.058544	574.027835
574.034630	574.004042	573.964240	574.064273	574.268970
574.811821	575.119394	575.321588	575.683074	576.160952
576.686653	577.219161	577.745658	578.260889	578.731102
579.122956	579.442797	579.696844	579.889638	580.022291

Row 51

581.033278	581.061790	581.093151	581.127223	581.163779
581.202482	581.242865	581.284309	581.326038	581.367109
581.406445	581.442878	581.475238	581.502469	581.523760
581.538673	581.547213	581.549833	581.547336	581.540223
581.515983	581.469571	581.402077	581.314304	581.206714
581.079385	580.931971	580.763642	580.572996	580.357908
580.115274	579.840600	579.527337	579.165935	578.743068
578.243498	577.660985	577.030149	576.697628	577.039525
577.414697	577.842736	578.327596	578.877162	579.505863
580.241416	581.136470	581.871745	582.282069	582.417287
582.300773	581.974851	581.844073	581.878789	581.797679
581.556888	581.128040	580.601891	580.202417	579.899661
579.585525	579.187678	578.775524	578.408382	578.099453
577.845624	577.639266	577.471639	577.334085	577.217613
577.113511	577.016831	576.920389	576.787008	576.534336
576.085268	575.331653	574.475176	574.172000	573.875123
573.997678	574.131055	574.186875	574.386868	574.911737
575.910315	576.388199	576.419792	576.706975	577.142101

577.652121	578.192767	578.738259	579.226916	579.639613
579.985129	580.268474	580.493072	580.661015	580.772723

Row 52

581.063992	581.090240	581.119007	581.150150	581.183454
581.218613	581.255223	581.292772	581.330641	581.368111
581.404396	581.438687	581.470230	581.498404	581.522826
581.543427	581.560503	581.574707	581.586975	581.590931
581.572869	581.533435	581.473526	581.393825	581.294749
581.176410	581.038576	580.880622	580.701463	580.499459
580.272267	580.016663	579.728337	579.401869	579.031411
578.613247	578.151321	577.662174	577.158448	577.117330
577.509458	577.951172	578.446013	579.000339	579.626908
580.349333	581.212626	581.954344	582.373663	582.522416
582.429124	582.165731	582.152121	582.207346	582.132807
581.905355	581.503902	580.943912	580.552740	580.368437
580.104485	579.615305	579.118175	578.732941	578.439203
578.219444	578.059134	577.946250	577.872448	577.830441
577.811530	577.814510	577.850631	577.902276	577.861960
577.615751	576.902365	575.386804	574.121597	573.831329
574.185792	574.348919	574.337742	574.509530	574.649165
576.131145	577.028443	577.069586	577.379563	577.845250
578.389339	578.968896	579.503433	579.956995	580.340945
580.662219	580.925098	581.132272	581.285214	581.384219

Row 53

581.092240	581.116294	581.142592	581.170997	581.201315
581.233287	581.266578	581.300784	581.335434	581.370011
581.403977	581.436823	581.468125	581.497616	581.525256
581.551297	581.576315	581.601213	581.626067	581.634539
581.621519	581.587892	581.534425	581.461722	581.370179
581.259955	581.130940	580.982713	580.814512	580.625176
580.413095	580.176182	579.911917	579.617641	579.291335
578.933177	578.547447	578.142505	577.727632	577.305563
577.524656	577.975816	578.469135	579.011605	579.608482
580.267960	580.995267	581.716310	582.150318	582.304156
582.208245	582.060881	582.138774	582.233483	582.178830
581.964249	581.576064	581.035761	580.689373	580.575641
580.330835	579.865724	579.321817	578.948890	578.688665
578.514799	578.406733	578.347793	578.332239	578.358912
578.408477	578.475361	578.600727	578.893187	579.045511
578.435260	577.276456	575.713251	574.485323	574.567819
575.074011	575.693032	576.028305	576.113500	575.958210
575.978323	577.311400	577.406832	577.819312	578.361337
578.967341	579.569496	580.084400	580.522356	580.892723
581.201757	581.453573	581.650791	581.794868	581.886246

Row 54

581.118289	581.140225	581.164172	581.190011	581.217576
581.246654	581.276984	581.308265	581.340162	581.372330
581.404442	581.436234	581.467552	581.498414	581.529067
581.560040	581.592182	581.626672	581.658670	581.670436
581.661532	581.632733	581.584725	581.518063	581.433149
581.330198	581.209222	581.070002	580.912075	580.734715
580.536942	580.317564	580.075313	579.809149	579.518806
579.205533	578.872635	578.524990	578.167162	577.803822
577.478298	577.922585	578.407647	578.929368	579.483350
580.064060	580.653795	581.200989	581.600098	581.762755
581.759013	581.747064	581.836385	581.975873	581.946918
581.740695	581.348206	580.866500	580.555723	580.427830
580.214624	579.785624	579.358543	579.051754	578.848437
578.737937	578.693805	578.687680	578.717195	578.827077
578.937878	578.877291	578.581843	578.309358	577.855692
577.271415	576.727739	576.267296	576.324806	576.596769
576.966178	577.335679	577.554467	577.452945	577.005582
575.958035	576.894440	577.484272	578.086287	578.734081
579.411700	580.015007	580.526896	580.961261	581.327434
581.631798	581.878696	582.070982	582.210348	582.297506

Row 55

581.142370	581.162260	581.183965	581.207384	581.232384
581.258800	581.286440	581.315093	581.344545	581.374598
581.405099	581.435983	581.467315	581.499341	581.532545
581.567696	581.605893	581.648595	581.683688	581.698072
581.692503	581.667690	581.624267	581.562774	581.483630
581.387120	581.273372	581.142356	580.993872	580.827566
580.642955	580.439501	580.216744	579.974535	579.713349
579.434600	579.140731	578.834780	578.519298	578.194140
577.870452	577.753131	578.274360	578.774274	579.286482
579.797403	580.285152	580.711676	581.027831	581.207199
581.281607	581.319897	581.374772	581.442067	581.426545
581.219491	580.865659	580.509302	580.229429	580.025313
579.813241	579.539218	579.271356	579.056135	578.917626
578.895748	578.939136	578.983563	578.671699	578.372276
578.092705	577.797780	577.540530	577.584767	577.674454
577.706902	577.684001	577.660416	577.717299	577.887838
578.166632	578.494212	578.566737	578.355594	577.824433

576.885042	576.836400	577.466295	578.234813	578.991342
579.722101	580.338466	580.858288	581.297254	581.665671
581.970587	582.216860	582.407767	582.545364	582.630702

Row 56

581.164683	581.182593	581.202148	581.223268	581.245850
581.269774	581.294910	581.321128	581.348313	581.376387
581.405341	581.435266	581.466397	581.499164	581.534237
581.572583	581.615515	581.664058	581.700527	581.716948
581.714033	581.692451	581.652816	581.595670	581.521465
581.430555	581.323186	581.199492	581.059503	580.903160
580.730359	580.541017	580.335178	580.113167	579.875749
579.624251	579.360515	579.086611	578.804343	578.515048
578.220324	577.962609	578.053201	578.565719	579.045791
579.505051	579.924148	580.278916	580.545854	580.716300
580.806196	580.846534	580.860273	580.842265	580.756731
580.572817	580.313461	580.040200	579.797388	579.590551
579.405343	579.252614	579.125181	578.990515	578.753803
578.469214	578.183811	577.919078	577.705936	577.681287
577.750326	577.926564	578.113219	578.292890	578.422252
578.489057	578.519653	578.548522	578.613388	578.743740
578.968612	579.221950	579.222378	578.941339	578.335592
577.346707	576.849349	577.403436	578.292237	579.148418
579.921919	580.561400	581.096791	581.546230	581.921541
582.230783	582.479543	582.671653	582.809616	582.894862

Row 57

581.185405	581.201391	581.218872	581.237785	581.258056
581.279605	581.302354	581.326238	581.351226	581.377334
581.404661	581.433418	581.463971	581.496882	581.532963
581.573326	581.619446	581.671234	581.708677	581.726614
581.725732	581.706684	581.670083	581.616488	581.546395
581.460231	581.358349	581.241030	581.108492	580.960913
580.798469	580.621388	580.430026	580.224959	580.007057
579.777514	579.537778	579.289356	579.033593	578.771644
578.505013	578.233621	578.055897	578.307902	578.781440
579.208102	579.583114	579.891385	580.120998	580.269431
580.345538	580.363959	580.335004	580.258065	580.126334
579.939921	579.716372	579.493611	579.292640	579.103820
578.906356	578.644856	578.355270	577.996646	577.693981
577.714119	577.815226	577.957044	578.093378	578.243689
578.402858	578.579880	578.767454	578.934897	579.051000
579.123827	579.168848	579.205969	579.256230	579.338880
579.474031	579.641520	579.592782	579.268921	578.609683
577.551283	576.750260	577.240778	578.256491	579.209596
580.028553	580.698697	581.255315	581.719578	582.105217
582.421563	582.675094	582.870297	583.010178	583.096574

Row 58

581.204692	581.218802	581.234268	581.251042	581.269076
581.288320	581.308739	581.330322	581.353095	581.377149
581.402661	581.429927	581.459400	581.491733	581.527824
581.568876	581.616459	581.669653	581.707696	581.726660
581.727225	581.710044	581.675743	581.624909	581.558092
581.475792	581.378462	581.266511	581.140316	581.000239
580.846663	580.680032	580.500899	580.309982	580.108189
579.896603	579.676411	579.448746	579.214506	578.974163
578.727473	578.472655	578.213975	578.140890	578.508191
578.920217	579.270036	579.546520	579.743242	579.861403
579.908118	579.891170	579.814282	579.676531	579.488650
579.278652	579.055007	578.748453	578.399442	577.981938
577.669642	577.774675	577.867179	577.988966	578.096440
578.230499	578.369259	578.510167	578.652550	578.803527
578.968560	579.150884	579.335575	579.478682	579.580668
579.647760	579.689240	579.716236	579.739604	579.767413
579.801209	579.822188	579.728757	579.365009	578.667798
577.666895	576.621697	576.981545	578.125495	579.179463
580.053983	580.761123	581.343396	581.825765	582.224272
582.549755	582.809716	583.009376	583.152284	583.240701

Row 59

581.222689	581.234963	581.248458	581.263142	581.278982
581.295956	581.314057	581.333313	581.353793	581.375635
581.399067	581.424437	581.452248	581.483194	581.518215
581.558540	581.605758	581.658914	581.697196	581.716715
581.718155	581.702181	581.669443	581.620570	581.556168
581.476813	581.383055	581.275415	581.154403	581.020528
580.874329	580.716404	580.547443	580.368255	580.179770
579.983011	579.779008	579.568656	579.352511	579.130490
578.901303	578.661146	578.417571	578.153819	578.267482
578.651555	578.995576	579.250515	579.414620	579.494340
579.501080	579.440015	579.308649	579.097183	578.673737
578.280950	577.849792	577.576306	577.829445	578.056860
578.184928	578.311470	578.428143	578.542191	578.654107
578.769293	578.889846	579.016556	579.151976	579.300721
579.467642	579.654578	579.817930	579.941359	580.028700
580.084489	580.114197	580.123457	580.116439	580.093272

580.045388	579.946056	579.737798	579.342810	578.708731
577.792661	576.505853	576.800446	577.913827	579.067568
580.007023	580.756784	581.368281	581.871213	582.284418
582.620474	582.888028	583.093091	583.239784	583.330798

Row 60

581.239532	581.250001	581.261560	581.274184	581.287855
581.302564	581.318328	581.335194	581.353258	581.372685
581.393726	581.416750	581.442272	581.470990	581.503828
581.541986	581.586995	581.638683	581.676844	581.696446
581.698184	581.682746	581.650815	581.603071	581.540184
581.462811	581.371592	581.267156	581.150123	581.021123
580.880817	580.729920	580.569226	580.399618	580.222067
580.037587	579.847156	579.651570	579.451240	579.245888
579.034051	578.812155	578.591530	578.389968	578.135078
578.440232	578.775575	579.019533	579.146041	579.172074
579.130640	579.021470	578.576710	577.744074	577.916658
577.999619	578.121650	578.260759	578.431118	578.595297
578.730880	578.849494	578.957539	579.059012	579.157670
579.257570	579.362444	579.475704	579.601376	579.744313
579.909730	580.087859	580.230295	580.336098	580.408484
580.450549	580.465266	580.454855	580.419515	580.355356
580.251234	580.084559	579.818966	579.409838	578.812116
577.960596	576.602655	576.565985	577.628576	578.878619
579.894184	580.692046	581.335580	581.860792	582.289915
582.637489	582.913394	583.124468	583.275418	583.369365

Row 61

581.255350	581.264042	581.273691	581.284277	581.295786
581.308221	581.321605	581.335997	581.351501	581.368287
581.386607	581.406821	581.429425	581.455079	581.484648
581.519244	581.560268	581.608680	581.646353	581.665556
581.666997	581.651394	581.619476	581.571980	581.509653
581.433237	581.343467	581.241070	581.126766	581.001286
580.865390	580.719888	580.565661	580.403668	580.234946
580.060565	579.881556	579.698766	579.512656	579.323073
579.128999	578.928218	578.739816	578.576856	578.435562
578.203787	578.631011	578.886569	578.962205	578.882572
578.574140	577.694782	578.124708	578.281537	578.421838
578.548075	578.680995	578.824258	578.972954	579.113742
579.238744	579.349070	579.447823	579.537541	579.621773
579.705997	579.794929	579.893373	580.006445	580.139723
580.299237	580.459917	580.583436	580.672698	580.730170
580.757810	580.756956	580.727825	580.668584	580.573978
580.433576	580.230113	579.939160	579.530706	578.968344
578.194094	577.062405	576.283436	577.252400	578.617454
579.721463	580.572276	581.249582	581.798041	582.243776
582.603411	582.888098	583.105519	583.260969	583.357989

Row 62

581.270270	581.277210	581.284972	581.293534	581.302885
581.313026	581.323981	581.335806	581.348600	581.362518
581.377794	581.394752	581.413839	581.435643	581.460930
581.490673	581.526091	581.568679	581.605489	581.623789
581.624307	581.607794	581.575033	581.526836	581.464036
581.387475	581.297988	581.196399	581.083521	580.960170
580.827186	580.685459	580.535950	580.379703	580.217845
580.051570	579.882075	579.710414	579.537257	579.362704
579.186381	579.009187	578.857859	578.740147	578.648330
578.579332	578.555151	578.920006	578.844089	578.221143
578.089982	578.384593	578.565963	578.729540	578.885597
579.035231	579.180491	579.319438	579.452475	579.576927
579.690310	579.792489	579.884832	579.969109	580.047165
580.120935	580.193309	580.274367	580.371377	580.490577
580.638471	580.779124	580.884927	580.958396	581.001305
581.014757	580.999054	580.953327	580.874919	580.758560
580.595485	580.372792	580.073433	579.676518	579.155782
578.471235	577.541509	576.151582	576.686947	578.317490
579.497844	580.401919	581.113143	581.685161	582.147825
582.519775	582.813429	583.037319	583.197330	583.297410

Row 63

581.284415	581.289631	581.295528	581.302082	581.309275
581.317104	581.325584	581.334755	581.344698	581.355542
581.367478	581.380777	581.395810	581.413064	581.433172
581.456931	581.485331	581.519573	581.554071	581.570939
581.569861	581.551628	581.517087	581.467142	581.402734
581.324821	581.234356	581.132263	581.019442	580.896778
580.765173	580.625582	580.479042	580.326685	580.169750
580.009605	579.847742	579.685632	579.524328	579.364035
579.204586	579.053231	578.941406	578.873907	578.846441
578.868766	578.951771	578.962728	578.834216	578.617281
578.676878	578.818811	578.983796	579.152090	579.318688
579.472348	579.613463	579.745066	579.868145	579.982220
580.086631	580.181462	580.267574	580.346285	580.419173
580.488038	580.554986	580.622577	580.699637	580.799899
580.929805	581.051233	581.140148	581.198466	581.227368
581.227329	581.198018	581.138043	581.044572	580.912873
580.735899	580.504076	580.205411	579.825747	579.348562
578.753810	578.018206	577.246579	576.960132	578.045877
579.231384	580.182443	580.927055	581.522861	582.002670
582.387039	582.689683	582.920015	583.084512	583.187521

Row 64

581.297912	581.301432	581.305490	581.310055	581.315099
581.320606	581.326574	581.333022	581.340000	581.347596
581.355945	581.365247	581.375776	581.387895	581.402077
581.418917	581.439146	581.463640	581.491986	581.506860
581.503456	581.482606	581.445237	581.392363	581.325067
581.244460	581.151634	581.047627	580.933414	580.809927
580.678107	580.538956	580.393582	580.243207	580.089178
579.933036	579.776679	579.622381	579.472071	579.325683
579.181393	579.056574	578.982514	578.971444	578.997055
579.010812	579.040325	579.053028	579.032716	579.017499
579.081135	579.209694	579.370544	579.543110	579.705156
579.853578	579.989901	580.115656	580.231709	580.338317
580.435586	580.523882	580.603962	580.676925	580.744144
580.807255	580.868214	580.929422	580.993891	581.070732
581.177258	581.280185	581.352858	581.396638	581.412196
581.399542	581.357960	581.285850	581.180505	581.037877
580.852399	580.616965	580.323122	579.961494	579.522561
578.999035	578.395799	577.780944	577.296569	577.794446
578.946453	579.909559	580.689534	581.310271	581.807671
582.204538	582.516103	582.752754	582.921583	583.027316

Row 65

581.310881	581.312741	581.314995	581.317598	581.320511
581.323700	581.327141	581.330823	581.334757	581.338979
581.343560	581.348610	581.354293	581.360831	581.368517
581.377724	581.388907	581.402609	581.419440	581.431486
581.424957	581.400483	581.359083	581.301917	581.230260
581.145428	581.048698	580.941241	580.824095	580.698202
580.564489	580.423979	580.277856	580.127454	579.974184
579.819615	579.665985	579.516953	579.377166	579.246711
579.119558	579.015724	578.954529	578.975899	579.022234
579.073024	579.128925	579.182802	579.234595	579.301822
579.406617	579.550450	579.720217	579.887854	580.044061
580.187948	580.319950	580.440879	580.551438	580.652127
580.743375	580.825719	580.899907	580.966918	581.027955
581.084463	581.138175	581.191195	581.246120	581.306204
581.383786	581.468548	581.525555	581.555414	581.558335
581.533962	581.481335	581.398797	581.283874	581.133163
580.942264	580.705836	580.417790	580.071681	579.661444
579.182993	578.637175	578.060837	577.528445	577.522652
578.650902	579.594352	580.396753	581.045136	581.560910
581.970365	582.290735	582.533546	582.706530	582.814761

Row 66

581.323447	581.323690	581.324181	581.324862	581.325678
581.326573	581.327497	581.328404	581.329260	581.330043
581.330747	581.331389	581.332008	581.332673	581.333486
581.334584	581.336137	581.338350	581.341443	581.344862
581.334331	581.305086	581.258246	581.195168	581.117396
581.026545	580.924159	580.811571	580.689862	580.559902
580.422515	580.278680	580.129691	579.977105	579.822393
579.666695	579.511843	579.362800	579.231624	579.128676
579.031941	579.000427	578.992095	578.978217	579.041453
579.128035	579.218588	579.314475	579.418159	579.537355
579.680315	579.848825	580.023608	580.188415	580.341422
580.482047	580.610521	580.727427	580.833409	580.929060
581.014951	581.091708	581.160068	581.220915	581.275299
581.324454	581.369833	581.413163	581.456508	581.502343
581.554033	581.617784	581.659719	581.676304	581.667310
581.632064	581.569427	581.477746	581.354784	581.197670
581.002878	580.766282	580.483273	580.148942	579.758270
579.306061	578.785553	578.233345	577.669874	577.152505
578.341082	579.286342	580.067437	580.724115	581.259035
581.681083	582.010134	582.258999	582.436028	582.546585

Row 67

581.335729	581.334407	581.333188	581.332001	581.330771
581.329420	581.327868	581.326031	581.323826	581.321168
581.317974	581.314156	581.309627	581.304296	581.298065
581.290825	581.282457	581.272820	581.261751	581.249050
581.231699	581.196361	581.142396	581.071419	580.985368
580.886325	580.776238	580.656675	580.528706	580.392990
580.250043	580.100651	579.946264	579.789039	579.630974
579.471818	579.310781	579.151075	579.005751	579.055310
579.068602	579.057193	579.037851	579.013624	579.062911
579.176715	579.301514	579.436476	579.582107	579.741440
579.917934	580.106986	580.285404	580.450663	580.602513
580.741068	580.866781	580.980290	581.082280	581.173415
581.254340	581.325714	581.388250	581.442740	581.490077
581.531272	581.567476	581.599997	581.630319	581.660094

581.691092	581.728429	581.755987	581.760016	581.739846
581.694502	581.622693	581.522772	581.392702	581.230021
581.031836	580.794840	580.515335	580.189188	579.811534
579.375689	578.878114	578.358126	577.793750	577.096927
578.046217	579.008985	579.767702	580.388984	580.905188
581.331111	581.668844	581.923874	582.105058	582.217935

Row 68

581.347844	581.345020	581.342158	581.339172	581.335968
581.332444	581.328489	581.323981	581.318786	581.312757
581.305729	581.297513	581.287893	581.276615	581.263379
581.247831	581.229547	581.208034	581.182728	581.153012
581.118251	581.074464	581.011314	580.929911	580.832796
580.722804	580.602566	580.474004	580.338099	580.195036
580.044618	579.887028	579.723826	579.558438	579.396057
579.233742	579.062237	579.047146	579.088426	579.125824
579.134806	579.118704	579.087662	579.050780	579.074731
579.212879	579.372593	579.544917	579.727563	579.921202
580.127481	580.328886	580.512650	580.680056	580.832010
580.969332	581.092852	581.203397	581.301762	581.388686
581.464862	581.530957	581.587644	581.635616	581.675610
581.708413	581.734868	581.755865	581.772324	581.785123
581.794976	581.802528	581.814292	581.806600	581.776028
581.721302	581.640977	581.533401	581.396680	581.228651
581.026874	580.788608	580.510765	580.189727	579.820833
579.397046	578.939944	578.468476	577.954637	577.327315
577.831230	578.795133	579.516396	580.094505	580.572354
580.968182	581.289859	581.541367	581.726127	581.848723

Row 69

581.359905	581.355651	581.351225	581.346526	581.341441
581.335843	581.329593	581.322530	581.314472	581.305211
581.294504	581.282063	581.267548	581.250548	581.230565
581.206997	581.179113	581.146046	581.106791	581.060244
581.005297	580.941022	580.865019	580.769860	580.657895
580.533261	580.399810	580.260065	580.114750	579.963153
579.803654	579.634697	579.457684	579.277196	579.103886
579.099513	579.156017	579.189990	579.215736	579.228964
579.221694	579.192155	579.143279	579.079145	579.046836
579.228564	579.429013	579.639011	579.856291	580.080727
580.310553	580.521710	580.711222	580.881392	581.034008
581.170518	581.292149	581.399965	581.494899	581.577768
581.649301	581.710160	581.760963	581.802306	581.834770
581.858924	581.875319	581.884459	581.886754	581.882423
581.871329	581.852688	581.834080	581.815575	581.775433
581.711998	581.623667	581.508754	581.365457	581.191824
580.985736	580.744864	580.466596	580.147823	579.784458
579.385078	578.981170	578.572950	578.148677	577.665720
577.779143	578.682759	579.324903	579.842601	580.276569
580.641843	580.944658	581.188206	581.375217	581.509209

Row 70

581.372018	581.366417	581.360519	581.354209	581.347355
581.339810	581.331405	581.321945	581.311204	581.298917
581.284770	581.268386	581.249309	581.226983	581.200725
581.169692	581.132847	581.088930	581.036435	580.973648
580.898769	580.810236	580.707280	580.590558	580.458295
580.313700	580.163006	580.009849	579.854184	579.693755
579.525117	579.340787	579.142839	579.032629	579.142853
579.238645	579.298698	579.333453	579.350586	579.349596
579.327274	579.281428	579.211419	579.115850	578.984992
579.226978	579.471326	579.719983	579.970780	580.223308
580.470950	580.691114	580.885983	581.058781	581.212044
581.347769	581.467549	581.572681	581.664233	581.743093
581.810016	581.865644	581.910541	581.945199	581.970051
581.985463	581.991723	581.988994	581.977261	581.956216
581.925090	581.882398	581.830064	581.786144	581.737228
581.665732	581.569777	581.447620	581.297500	581.117600
580.906024	580.660753	580.379575	580.059924	579.709360
579.353522	579.001404	578.661219	578.343919	578.076083
578.112934	578.684988	579.187339	579.626451	580.011223
580.345386	580.630272	580.866590	581.055479	581.199080

Row 71

581.384281	581.377426	581.370160	581.362355	581.353865
581.344522	581.334133	581.322472	581.309276	581.294231
581.276962	581.257015	581.233836	581.206742	581.174885
581.137206	581.092379	581.038743	580.974244	580.896398
580.802378	580.689378	580.555564	580.401747	580.232934
580.057852	579.884175	579.715904	579.550228	579.381271
579.208383	579.056844	579.153107	579.246490	579.332013
579.404743	579.457172	579.487882	579.497980	579.486698
579.451644	579.390006	579.299261	579.178532	579.035266
579.214750	579.500829	579.790705	580.074708	580.352489
580.613976	580.841821	581.041002	581.215697	581.369126
581.503753	581.621483	581.723807	581.811904	581.886719
581.949012	581.999402	582.038386	582.066359	582.083613

582.090334	582.086577	582.072224	582.046915	582.009947
581.960118	581.895515	581.815322	581.738001	581.662993
581.581306	581.477996	581.348482	581.190994	581.003776
580.785065	580.533055	580.246710	579.938339	579.619844
579.301282	578.994075	578.713198	578.483200	578.354996
578.428338	578.714190	579.071774	579.429566	579.765399
580.070294	580.339437	580.570155	580.761480	580.913995

Row 72

581.396783	581.388776	581.380257	581.371087	581.361108
581.350137	581.337960	581.324328	581.308946	581.291463
581.271456	581.248411	581.221698	581.190535	581.153944
581.110688	581.059195	580.997441	580.922820	580.831973
580.720660	580.583889	580.417003	580.219012	579.997674
579.770116	579.556788	579.371110	579.198100	579.018943
579.128508	579.255254	579.357123	579.445299	579.522180
579.585158	579.630599	579.656146	579.660383	579.641441
579.596436	579.521399	579.411264	579.261198	579.078119
579.172147	579.517130	579.856857	580.173776	580.472701
580.744535	580.977892	581.179675	581.355028	581.507756
581.640695	581.755980	581.855235	581.939712	582.010383
582.067998	582.113136	582.146225	582.167564	582.177318
582.175513	582.162008	582.136454	582.098229	582.046345
581.979316	581.894995	581.791496	581.686837	581.583522
581.474599	581.352852	581.211418	581.044688	580.849245
580.624501	580.372820	580.099172	579.810593	579.515799
579.225229	578.951806	578.712829	578.533475	578.450204
578.500184	578.680168	578.939793	579.231167	579.525717
579.806951	580.064756	580.293007	580.488509	580.650323

Row 73

581.409602	581.400551	581.390902	581.380509	581.369203
581.356791	581.343043	581.327695	581.310429	581.290868
581.268559	581.242947	581.213353	581.178931	581.138619
581.091065	581.034527	580.966718	580.884586	580.783962
580.659036	580.501652	580.301141	580.048751	579.753751
579.449744	579.174148	578.988704	579.101549	579.235058
579.356175	579.466194	579.562727	579.646611	579.718216
579.775822	579.816790	579.838564	579.838808	579.814928
579.763484	579.679405	579.554538	579.374454	579.106652
579.050276	579.532060	579.931030	580.276526	580.589386
580.867117	581.102732	581.304742	581.479073	581.629939
581.760395	581.872695	581.968524	582.049153	582.115543
582.168414	582.208291	582.235530	582.250333	582.252752
582.242673	582.219794	582.183583	582.133220	582.067517
581.984813	581.882846	581.759562	581.633072	581.507170
581.375973	581.233661	581.074906	580.895462	580.692760
580.466365	580.218167	579.952339	579.675169	579.394956
579.122130	578.869750	578.654422	578.497132	578.421669
578.446035	578.568705	578.767252	579.012465	579.278613
579.545664	579.799226	580.029980	580.232703	580.405207

Row 74

581.422806	581.412825	581.402175	581.390707	581.378246
581.364590	581.349504	581.332711	581.313885	581.292636
581.268493	581.240887	581.209118	581.172318	581.129398
581.078967	581.019226	580.947792	580.861413	580.755488
580.623132	580.453249	580.226206	579.908052	579.495375
579.075495	579.048119	579.214243	579.356811	579.475480
579.582963	579.681913	579.771758	579.851605	579.920189
579.975400	580.014543	580.034795	580.033405	580.007534
579.953743	579.866908	579.737937	579.548417	579.257009
578.999026	579.591694	580.034103	580.393398	580.708205
580.985328	581.218874	581.418189	581.589518	581.737175
581.864232	581.972930	582.064924	582.141444	582.203403
582.251464	582.286084	582.307541	582.315948	582.311250
582.293213	582.261402	582.215143	582.153469	582.075055
581.978132	581.860386	581.720290	581.576879	581.433212
581.284272	581.125242	580.951808	580.760573	580.549476
580.318169	580.068266	579.803483	579.529681	579.254893
578.989356	578.745605	578.538514	578.384827	578.301092
578.299179	578.381429	578.539687	578.757274	579.011221
579.277483	579.536893	579.777079	579.991306	580.176722

Row 75

581.436450	581.425655	581.414138	581.401748	581.388308
581.373613	581.357428	581.339473	581.319421	581.296882
581.271389	581.242378	581.209160	581.170888	581.126502
581.074662	581.013643	580.941169	580.854151	580.748206
580.616715	580.448638	580.222006	579.868816	579.454919
579.399045	579.436379	579.520323	579.617709	579.714316
579.807963	579.897787	579.982305	580.059633	580.127488
580.183054	580.223113	580.244377	580.243797	580.218679
580.166362	580.083273	579.962982	579.792370	579.543939
579.161128	579.744182	580.186358	580.532746	580.833215
581.101115	581.327660	581.521136	581.687396	581.830459
581.953185	582.057653	582.145398	582.217549	582.274932

582.318129	582.347517	582.363291	582.365473	582.353914
582.328277	582.288018	582.232349	582.160196	582.070139
581.960338	581.828459	581.674544	581.518518	581.361167
581.198178	581.025448	580.839314	580.636854	580.416230
580.177033	579.920608	579.650346	579.371896	579.093246
578.824599	578.578003	578.366693	578.204038	578.102051
578.069949	578.114366	578.240957	578.447657	578.710651
578.994881	579.273689	579.532093	579.763044	579.964080

Row 76

581.450575	581.439084	581.426835	581.413677	581.399435
581.383909	581.366864	581.348029	581.327084	581.303652
581.277286	581.247449	581.213492	581.174624	581.129875
581.078033	581.017568	580.946512	580.862280	580.761374
580.638898	580.487762	580.297975	580.065185	579.861237
579.771069	579.763647	579.804299	579.869782	579.946552
580.028083	580.110859	580.192159	580.269263	580.339088
580.398019	580.442002	580.466962	580.469416	580.446993
580.398484	580.323227	580.220007	580.085871	579.914926
579.684749	580.024207	580.394551	580.695368	580.964800
581.214079	581.429016	581.613771	581.773082	581.910297
582.027845	582.127518	582.210642	582.278197	582.330888
582.369194	582.393400	582.403614	582.399772	582.381637
582.348783	582.300575	582.236138	582.154315	582.053616
581.932154	581.787582	581.623425	581.458493	581.290926
581.116976	580.933030	580.735792	580.522511	580.291279
580.041385	579.773739	579.491367	579.199845	578.907494
578.625056	578.364763	578.138854	577.957925	577.829712
577.759460	577.754642	577.840287	578.055385	578.363241
578.693199	579.008709	579.295368	579.548513	579.767809

Row 77

581.465211	581.453141	581.440293	581.426519	581.411651
581.395494	581.377825	581.358383	581.336867	581.312923
581.286137	581.256017	581.221978	581.183321	581.139202
581.088601	581.030270	580.962683	580.883965	580.791843
580.683697	580.557081	580.412124	580.259670	580.131389
580.057023	580.036877	580.057115	580.103873	580.166978
580.239894	580.318347	580.399018	580.478690	580.553688
580.619545	580.670204	580.699101	580.705175	580.687627
580.645484	580.578491	580.492798	580.395843	580.302220
580.261347	580.402495	580.636594	580.871315	581.098970
581.321450	581.521521	581.695432	581.846368	581.976763
582.088469	582.182897	582.261114	582.323907	582.371835
582.405259	582.424364	582.429169	582.419527	582.395120
582.355445	582.299792	582.227214	582.136489	582.026075
581.894048	581.738039	581.568289	581.397596	581.222777
581.040521	580.847526	580.640626	580.416964	580.174233
579.911043	579.627479	579.325902	579.011833	578.694483
578.386279	578.101092	577.851454	577.645587	577.485637
577.368111	577.286443	577.254397	577.526024	577.959164
578.374464	578.746083	579.070603	579.350484	579.589825

Row 78

581.480376	581.467840	581.454522	581.440281	581.424955
581.408361	581.390289	581.370498	581.348711	581.324607
581.297815	581.267901	581.234362	581.196609	581.153955
581.105601	581.050623	580.987976	580.916522	580.835155
580.743126	580.640898	580.532040	580.426159	580.339032
580.284440	580.266011	580.279210	580.316858	580.372334
580.440533	580.517628	580.600441	580.685758	580.769300
580.838084	580.887245	580.916546	580.925764	580.914754
580.883617	580.833098	580.765497	580.692692	580.640722
580.641344	580.724151	580.870649	581.044661	581.229192
581.419154	581.602848	581.764844	581.906598	582.029581
582.135028	582.223931	582.297067	582.355010	582.398161
582.426756	582.440877	582.440451	582.425253	582.394892
582.348796	582.286191	582.206074	582.107171	581.987894
581.846288	581.681571	581.510687	581.336869	581.157353
580.969157	580.769141	580.554079	580.320744	580.066060
579.787414	579.483317	579.154653	578.806509	578.449701
578.100378	577.776901	577.494763	577.260697	577.069113
576.903416	576.732138	576.458404	576.829883	577.512595
578.053300	578.496704	578.865260	579.173874	579.433292

Row 79

581.496075	581.483183	581.469518	581.454948	581.439322
581.422472	581.404204	581.384301	581.362515	581.338564
581.312128	581.282840	581.250286	581.213999	581.173458
581.128088	581.077282	581.020440	580.957054	580.886893
580.810368	580.729174	580.647250	580.571502	580.510852
580.472917	580.460977	580.474004	580.508652	580.561079
580.627876	580.706246	580.793747	580.887329	580.970602
581.036291	581.084233	581.114375	581.126806	581.121861
581.100334	581.063892	581.015813	580.962222	580.922276
580.923825	580.976771	581.074991	581.203316	581.349568
581.506985	581.670383	581.820440	581.952850	582.068246

582.167288	582.250571	582.318579	582.371678	582.410106
582.433974	582.443260	582.437807	582.417314	582.381323
582.329204	582.260128	582.173043	582.066633	581.939276
581.788980	581.622187	581.452269	581.277519	581.095544
580.903596	580.698596	580.477122	580.235367	579.969116
579.673823	579.345147	578.980623	578.583301	578.166206
577.752835	577.371428	577.046520	576.786602	576.573218
576.372347	576.145953	575.833043	576.091900	577.074925
577.758824	578.278034	578.689981	579.025190	579.302177

Row 80

581.512303	581.499158	581.485262	581.470492	581.454713
581.437770	581.419493	581.399688	581.378141	581.354612
581.328836	581.300516	581.269330	581.234932	581.196957
581.155043	581.108858	581.058165	581.002920	580.943452
580.880740	580.816796	580.755046	580.700376	580.658375
580.633815	580.629344	580.645279	580.680353	580.732664
580.800342	580.881832	580.975859	581.071080	581.150609
581.214009	581.261221	581.292340	581.307675	581.307847
581.293976	581.267990	581.233048	581.194015	581.158186
581.150163	581.181127	581.247785	581.342304	581.456635
581.584700	581.722359	581.860656	581.984112	582.092123
582.184880	582.262628	582.325594	582.373948	582.407775
582.427067	582.431705	582.421451	582.395936	582.354643
582.296889	582.221801	582.128286	582.014993	581.880269
581.724499	581.562020	581.394662	581.220813	581.038370
580.844767	580.636938	580.411214	580.163122	579.887058
579.575858	579.220513	578.811296	578.343901	577.832776
577.315958	576.840625	576.454220	576.184520	575.978201
575.759064	575.497657	575.213783	575.378975	576.714784
577.528701	578.111037	578.556751	578.911369	579.200507

Row 81

581.529047	581.515743	581.501721	581.486871	581.471069
581.454181	581.436056	581.416531	581.395424	581.372540
581.347666	581.320578	581.291040	581.258817	581.223688
581.185467	581.144046	581.099456	581.051960	581.002191
580.951336	580.901331	580.854974	580.815813	580.787645
580.773768	580.776342	580.796236	580.833327	580.887016
580.956692	581.042044	581.141491	581.233072	581.309788
581.371516	581.418291	581.450323	581.468045	581.472200
581.463974	581.445174	581.418418	581.387208	581.355641
581.335995	581.348968	581.392390	581.461056	581.549207
581.651736	581.764507	581.884123	581.999416	582.100545
582.187356	582.259821	582.317951	582.361747	582.391159
582.406073	582.406280	582.391473	582.361218	582.314949
582.251937	582.171272	582.071827	581.952225	581.811338
581.660019	581.502948	581.339373	581.167962	580.986854
580.793644	580.585301	580.357978	580.106643	579.824411
579.501328	579.122206	578.663616	578.097108	577.429024
576.732977	576.081940	575.562600	575.361431	575.252821
575.036006	575.134198	575.189304	575.103697	576.509814
577.399751	578.015207	578.476148	578.838198	579.131438

Row 82

581.546283	581.532907	581.518855	581.504029	581.488320
581.471613	581.453781	581.434686	581.414183	581.392118
581.368331	581.342661	581.314955	581.285075	581.252917
581.218440	581.181701	581.142914	581.102520	581.061290
581.020429	580.981663	580.947253	580.919863	580.902252
580.896872	580.905548	580.929374	580.968872	581.024294
581.095977	581.184683	581.285197	581.373955	581.448598
581.509107	581.555602	581.588365	581.607882	581.614906
581.610536	581.596304	581.574223	581.546717	581.516329
581.488576	581.486849	581.512330	581.560738	581.627490
581.708251	581.799160	581.896783	581.997904	582.092865
582.174242	582.241809	582.295411	582.334912	582.360153
582.370926	582.366949	582.347849	582.313143	582.262218
582.194309	582.108473	582.003560	581.878513	581.741697
581.597698	581.446553	581.287700	581.120029	580.941892
580.751069	580.544649	580.318790	580.068250	579.785492
579.458834	579.068221	578.573780	577.880275	576.900343
575.864866	574.771288	574.790952	575.263713	575.592959
575.732719	575.795215	575.783772	575.623769	576.508382
577.397259	578.003307	578.454408	578.808680	579.096354

Row 83

581.563982	581.550611	581.536613	581.521903	581.506387
581.489968	581.472542	581.453999	581.434226	581.413109
581.390536	581.366406	581.340631	581.313158	581.283977
581.253155	581.220865	581.187431	581.153387	581.119538
581.087019	581.057326	581.032294	581.013992	581.004530
581.005834	581.019481	581.046641	581.088179	581.144862
581.217649	581.308042	581.407608	581.494351	581.567494
581.627112	581.673391	581.706654	581.727390	581.736297
581.734321	581.722687	581.702881	581.676550	581.645275
581.611815	581.598835	581.610533	581.643016	581.692374

581.754848	581.826936	581.905372	581.987033	582.068794
582.145060	582.208210	582.257671	582.293204	582.314563
582.321467	582.313572	582.290453	582.251582	582.196312
582.123845	582.033215	581.924420	581.804514	581.675830
581.538993	581.394088	581.240682	581.077846	580.904148
580.717598	580.515530	580.294365	580.049160	579.772760
579.454057	579.073990	578.594421	577.915985	577.044693
576.489260	576.180691	576.086908	576.155143	576.263371
576.340479	576.381356	576.375514	576.275846	576.723331
577.530595	578.076953	578.490920	578.821786	579.094239

Row 84

581.582109	581.568812	581.554941	581.540423	581.525183
581.509140	581.492211	581.474312	581.455361	581.435280
581.414000	581.391467	581.367655	581.342573	581.316285
581.288933	581.260764	581.232164	581.203699	581.176152
581.150553	581.128185	581.110555	581.099312	581.096129
581.102578	581.120030	581.149641	581.192418	581.249372
581.321756	581.411376	581.509499	581.594850	581.666926
581.725883	581.771956	581.805482	581.826925	581.836898
581.836180	581.825712	581.806562	581.779830	581.746485
581.708515	581.687933	581.689491	581.709657	581.745038
581.792363	581.848507	581.910483	581.975387	582.040334
582.102404	582.158628	582.204382	582.236318	582.254120
582.257450	582.245918	582.219056	582.176304	582.116982
582.040480	581.950007	581.848110	581.736084	581.614861
581.484961	581.346475	581.199068	581.041977	580.873991
580.693407	580.497930	580.284492	580.048934	579.785456
579.485679	579.137113	578.721821	578.226366	577.707315
577.289719	577.015734	576.875296	576.836527	576.851804
576.883709	576.916284	576.944441	576.972052	577.219575
577.784573	578.221947	578.576901	578.872121	579.121598

Row 85

581.600625	581.587459	581.573776	581.559517	581.544619
581.529020	581.512656	581.495468	581.477400	581.458406
581.438453	581.417530	581.395655	581.372888	581.349345
581.325217	581.300794	581.276488	581.252860	581.230642
581.210752	581.194287	581.182494	581.176716	581.178311
581.188582	581.208720	581.239798	581.282820	581.338831
581.409082	581.495260	581.591559	581.675993	581.747329
581.805786	581.851633	581.885207	581.906930	581.917323
581.917006	581.906683	581.887102	581.858975	581.822870
581.781528	581.756871	581.751508	581.762439	581.786784
581.821738	581.864570	581.912617	581.963265	582.013922
582.062003	582.104941	582.140241	582.165575	582.178914
582.178673	582.163821	582.133947	582.089227	582.030324
581.958225	581.874067	581.778962	581.673871	581.559512
581.436300	581.304321	581.163323	581.012697	580.851471
580.678267	580.491252	580.288031	580.065511	579.819718
579.545691	579.237893	578.892879	578.518574	578.148818
577.832756	577.599831	577.453064	577.378659	577.354986
577.363019	577.393174	577.447861	577.551027	577.766667
578.086391	578.407885	578.697037	578.950994	579.173050

Row 86

581.619488	581.606501	581.593058	581.579109	581.564606
581.549501	581.533751	581.517315	581.500163	581.482276
581.463650	581.444308	581.424303	581.403731	581.382743
581.361561	581.340492	581.319950	581.300471	581.282724
581.267515	581.255782	581.248566	581.246969	581.252111
581.265074	581.286875	581.318459	581.360728	581.414607
581.481135	581.561580	581.654390	581.738267	581.809108
581.867181	581.912773	581.946211	581.967872	581.978189
581.977642	581.966746	581.946005	581.915857	581.876592
581.834189	581.808435	581.798862	581.803146	581.818957
581.843959	581.875819	581.912221	581.950865	581.989468
582.025774	582.057575	582.082759	582.099388	582.105783
582.100621	582.083004	582.052493	582.009088	581.953158
581.885335	581.806387	581.717104	581.618187	581.510178
581.393406	581.267955	581.133644	580.990021	580.836349
580.671599	580.494426	580.303158	580.095798	579.870115
579.623979	579.356350	579.069644	578.773820	578.489004
578.239754	578.043666	577.906178	577.822748	577.783776
577.780076	577.807200	577.868291	577.975933	578.144982
578.365593	578.603867	578.834970	579.048730	579.242425

Row 87

581.638653	581.625887	581.612723	581.599124	581.585053
581.570478	581.555371	581.539710	581.523484	581.506697
581.489371	581.471552	581.453320	581.434795	581.416150
581.397620	581.379516	581.362238	581.346284	581.332255
581.320857	581.312886	581.309213	581.310753	581.318426
581.333127	581.355703	581.386941	581.427584	581.478348
581.539952	581.613123	581.698499	581.782096	581.852629
581.910400	581.955708	581.988864	582.010201	582.020071
582.018841	582.006871	581.984485	581.951921	581.909298

581.870219	581.845510	581.833827	581.833553	581.842911
581.860022	581.882947	581.909712	581.938337	581.966843
581.993281	582.015760	582.032488	582.041833	582.042384
582.033015	582.012931	581.981684	581.939162	581.885538
581.821196	581.746649	581.662444	581.569092	581.467001
581.356430	581.237467	581.110005	580.973737	580.828158
580.672570	580.506098	580.327735	580.136431	579.931309
579.712098	579.479987	579.238994	578.997453	578.768068
578.564975	578.399143	578.275632	578.193934	578.150277
578.140541	578.162724	578.218308	578.311545	578.444595
578.610300	578.793188	578.978505	579.156941	579.323889

Row 88

581.658078	581.645564	581.632710	581.619489	581.605876
581.591852	581.577401	581.562519	581.547211	581.531498
581.515421	581.499046	581.482469	581.465827	581.449301
581.433131	581.417621	581.403145	581.390158	581.379195
581.370867	581.365851	581.364877	581.368698	581.378069
581.393720	581.416334	581.446534	581.484875	581.531836
581.587801	581.652993	581.727329	581.807831	581.878204
581.935739	581.980742	582.013506	582.034322	582.043475
582.041238	582.027851	582.003501	581.968278	581.926331
581.893341	581.870947	581.858626	581.855389	581.859967
581.870903	581.886625	581.905490	581.925817	581.945918
581.964125	581.978822	581.988489	581.991742	581.987382
581.974440	581.952204	581.920234	581.878348	581.826589
581.765175	581.694433	581.614743	581.526471	581.429927
581.325326	581.212762	581.092200	580.963469	580.826273
580.680212	580.524820	580.359636	580.184336	579.998954
579.804259	579.602315	579.397161	579.195262	579.005116
578.835679	578.694241	578.585013	578.509060	578.465341
578.452196	578.468622	578.514789	578.591273	578.696816
578.826131	578.970455	579.120633	579.269550	579.412642

Row 89

581.677718	581.665479	581.652956	581.640133	581.626993
581.613528	581.599736	581.585622	581.571208	581.556527
581.541634	581.526608	581.511557	581.496624	581.481995
581.467904	581.454638	581.442545	581.432032	581.423571
581.417689	581.414958	581.415986	581.421392	581.431788
581.447757	581.469830	581.498472	581.534054	581.576835
581.626906	581.684106	581.747854	581.816870	581.886080
581.943437	581.988125	582.020419	582.040574	582.048819
582.045349	582.030314	582.003791	581.967534	581.933925
581.906923	581.887382	581.875336	581.870286	581.871380
581.877533	581.887500	581.899937	581.913441	581.926587
581.937959	581.946185	581.949972	581.948145	581.939677
581.923729	581.899662	581.867053	581.825682	581.775508
581.716635	581.649265	581.573657	581.490076	581.398762
581.299901	581.193601	581.079894	580.958727	580.829987
580.693523	580.549195	580.396960	580.236991	580.069875
579.896871	579.720252	579.543595	579.371865	579.211031
579.067183	578.945448	578.849233	578.780093	578.738179
578.722964	578.733857	578.770391	578.831779	578.915969
579.018927	579.134958	579.257965	579.382659	579.505108

Row 90

581.697530	581.685582	581.673406	581.660991	581.648330
581.635423	581.622277	581.608911	581.595354	581.581651
581.567866	581.554087	581.540427	581.527031	581.514082
581.501803	581.490462	581.480375	581.471906	581.465464
581.461501	581.460499	581.462960	581.469389	581.480274
581.496071	581.517175	581.543908	581.576482	581.614970
581.659249	581.708907	581.763111	581.820410	581.878495
581.933670	581.978045	582.009820	582.029219	582.036423
582.031568	582.014728	581.988613	581.961066	581.935440
581.913763	581.897105	581.885813	581.879725	581.878309
581.880783	581.886181	581.893421	581.901348	581.908770
581.914495	581.917363	581.916277	581.910234	581.898356
581.879910	581.854328	581.821208	581.780314	581.731554
581.674958	581.610644	581.538784	581.459576	581.373212
581.279861	581.179650	581.072667	580.958964	580.838573
580.711539	580.577972	580.438116	580.292463	580.141890
579.987836	579.832479	579.678856	579.530813	579.392717
579.268931	579.163225	579.078336	579.015851	578.976377
578.959877	578.965959	578.993943	579.042655	579.110049
579.192985	579.287435	579.389080	579.493943	579.598787

Row 91

581.717473	581.705828	581.694005	581.682001	581.669815
581.657456	581.644940	581.632290	581.619546	581.606760
581.594001	581.581361	581.568956	581.556928	581.545453
581.534741	581.525035	581.516622	581.509820	581.504985
581.502500	581.502768	581.506202	581.513207	581.524167
581.539426	581.559265	581.583885	581.613370	581.647656
581.686478	581.729294	581.775192	581.822771	581.870045
581.914412	581.952830	581.982298	582.000598	582.007035

582.002704	581.990118	581.972427	581.952662	581.933289
581.916051	581.902008	581.891647	581.885008	581.881789
581.881439	581.883224	581.886284	581.889676	581.892414
581.893499	581.891955	581.886852	581.877337	581.862654
581.842168	581.815371	581.781893	581.741493	581.694052
581.639554	581.578059	581.509686	581.434585	581.352917
581.264843	581.170510	581.070055	580.963611	580.851323
580.733386	580.610079	580.481838	580.349334	580.213569
580.075990	579.938574	579.803856	579.674863	579.554892
579.447199	579.354643	579.279428	579.222990	579.186060
579.168795	579.170915	579.191733	579.230070	579.284125
579.351421	579.428959	579.513535	579.602097	579.692009

Row 92

581.737508	581.726171	581.714703	581.703106	581.691387
581.679560	581.667646	581.655677	581.643695	581.631759
581.619940	581.608333	581.597050	581.586230	581.576037
581.566665	581.558336	581.551303	581.545846	581.542269
581.540895	581.542060	581.546097	581.553328	581.564049
581.578511	581.596902	581.619323	581.645766	581.676074
581.709902	581.746665	581.785475	581.825087	581.863869
581.899853	581.930905	581.955053	581.970911	581.978054
581.977145	581.969747	581.957917	581.943763	581.929127
581.915423	581.903593	581.894150	581.887242	581.882718
581.880199	581.879133	581.878842	581.878564	581.877487
581.874781	581.869626	581.861236	581.848886	581.831928
581.809810	581.782082	581.748406	581.708550	581.662382
581.609860	581.551009	581.485912	581.414688	581.337481
581.254448	581.165755	581.071578	580.972110	580.867584
580.758293	580.644632	580.527147	580.406594	580.284003
580.160744	580.038561	579.919570	579.806185	579.700964
579.606407	579.524738	579.457731	579.406627	579.372131
579.354466	579.353425	579.368396	579.398328	579.441707
579.496567	579.560600	579.631351	579.706430	579.783689

Row 93

581.757599	581.746570	581.735454	581.724256	581.712990
581.701673	581.690331	581.679000	581.667728	581.656572
581.645608	581.634928	581.624640	581.614876	581.605789
581.597554	581.590373	581.584466	581.580076	581.577464
581.576899	581.578656	581.583004	581.590194	581.600449
581.613942	581.630788	581.651015	581.674548	581.701175
581.730522	581.762011	581.794834	581.827928	581.859986
581.889525	581.915024	581.935143	581.948970	581.956220
581.957307	581.953235	581.945374	581.935195	581.924058
581.913067	581.903014	581.894376	581.887342	581.881856
581.877662	581.874345	581.871376	581.868140	581.863974
581.858189	581.850100	581.839044	581.824407	581.805633
581.782245	581.753846	581.720133	581.680889	581.635980
581.585350	581.529007	581.467010	581.399460	581.326491
581.248261	581.164949	581.076762	580.983937	580.886764
580.785603	580.680916	580.573303	580.463545	580.352641
580.241849	580.132689	580.026931	579.926526	579.833501
579.749821	579.677244	579.617205	579.570749	579.538507
579.520706	579.517196	579.527457	579.550603	579.585386
579.630235	579.683339	579.742771	579.806627	579.873149

Row 94

581.777712	581.766988	581.756216	581.745406	581.734573
581.723741	581.712937	581.702201	581.691581	581.681138
581.670945	581.661089	581.651677	581.642830	581.634688
581.627410	581.621173	581.616172	581.612616	581.610723
581.610718	581.612825	581.617257	581.624207	581.633835
581.646258	581.661530	581.679629	581.700435	581.723713
581.749087	581.776020	581.803802	581.831546	581.858218
581.882693	581.903868	581.920802	581.932866	581.939855
581.942029	581.940044	581.934828	581.927416	581.918801
581.909829	581.901141	581.893150	581.886049	581.879834
581.874333	581.869237	581.864130	581.858520	581.851866
581.843598	581.833145	581.819952	581.803496	581.783304
581.758965	581.730132	581.696536	581.657977	581.614331
581.565535	581.511589	581.452541	581.388480	581.319536
581.245867	581.167665	581.085155	580.998607	580.908345
580.814766	580.718365	580.619759	580.519714	580.419172
580.319263	580.221308	580.126793	580.037315	579.954507
579.879939	579.815020	579.760919	579.718506	579.688322
579.670581	579.665172	579.671668	579.689336	579.717161
579.753879	579.798049	579.848132	579.902594	579.959983

Row 95

581.797817	581.787391	581.776953	581.766514	581.756095
581.745718	581.735417	581.725230	581.715207	581.705408
581.695904	581.686779	581.678131	581.670072	581.662731
581.656249	581.650781	581.646498	581.643576	581.642200
581.642555	581.644820	581.649162	581.655727	581.664625
581.675927	581.689645	581.705720	581.724011	581.744274
581.766151	581.789162	581.812695	581.836021	581.858319

581.878732	581.896443	581.910772	581.921264	581.927764
581.930428	581.929694	581.926196	581.920662	581.913817
581.906301	581.898617	581.891107	581.883948	581.877161
581.870630	581.864122	581.857312	581.849804	581.841157
581.830904	581.818567	581.803682	581.785807	581.764541
581.739530	581.710474	581.677135	581.639337	581.596965
581.549961	581.498319	581.442084	581.381341	581.316215
581.246867	581.173495	581.096340	581.015685	580.931875
580.845323	580.756534	580.666113	580.574793	580.483440
580.393063	580.304807	580.219926	580.139740	580.065583
579.998726	579.940315	579.891303	579.852412	579.824103
579.806565	579.799718	579.803214	579.816459	579.838625
579.868694	579.905504	579.947813	579.994370	580.043970

Row 96

581.817887	581.807750	581.797631	581.787547	581.777516
581.767567	581.757730	581.748047	581.738566	581.729346
581.720454	581.711969	581.703983	581.696598	581.689929
581.684101	581.679252	581.675525	581.673073	581.672047
581.672600	581.674874	581.678997	581.685075	581.693182
581.703353	581.715568	581.729748	581.745740	581.763307
581.782120	581.801755	581.821694	581.841339	581.860039
581.877132	581.892000	581.904137	581.913204	581.919073
581.921836	581.921781	581.919345	581.915042	581.909398
581.902891	581.895909	581.888727	581.881494	581.874242
581.866889	581.859257	581.851091	581.842073	581.831843
581.820017	581.806198	581.789998	581.771045	581.748999
581.723557	581.694462	581.661508	581.624541	581.583458
581.538209	581.488790	581.435244	581.377655	581.316146
581.250881	581.182061	581.109931	581.034784	580.956969
580.876902	580.795078	580.712078	580.628588	580.545395
580.463397	580.383582	580.307015	580.234800	580.168035
580.107765	580.054927	580.010305	579.974500	579.947899
579.930668	579.922750	579.923867	579.933535	579.951082
579.975681	580.006391	580.042198	580.082073	580.125012

Row 97

581.837896	581.828037	581.818224	581.808473	581.798808
581.789254	581.779845	581.770621	581.761629	581.752925
581.744573	581.736646	581.729229	581.722414	581.716302
581.711006	581.706644	581.703339	581.701218	581.700409
581.701032	581.703200	581.707010	581.712536	581.719823
581.728878	581.739664	581.752087	581.765993	581.781159
581.797288	581.814013	581.830896	581.847448	581.863148
581.877479	581.889965	581.900220	581.907981	581.913138
581.915737	581.915969	581.914133	581.910590	581.905720
581.899877	581.893355	581.886368	581.879037	581.871392
581.863374	581.854846	581.845603	581.835390	581.823914
581.810857	581.795892	581.778693	581.758950	581.736374
581.710709	581.681736	581.649278	581.613203	581.573423
581.529895	581.482623	581.431650	581.377059	581.318974
581.257558	581.193013	581.125584	581.055564	580.983300
580.909198	580.833732	580.757452	580.680989	580.605056
580.530444	580.458012	580.388669	580.323342	580.262947
580.208348	580.160319	580.119512	580.086425	580.061385
580.044537	580.035842	580.035076	580.041848	580.055611
580.075691	580.101319	580.131662	580.165868	580.203095

Row 98

581.857823	581.848229	581.838705	581.829269	581.819942
581.810754	581.801736	581.792927	581.784373	581.776126
581.768248	581.760804	581.753872	581.747534	581.741881
581.737010	581.733023	581.730026	581.728124	581.727421
581.728015	581.729991	581.733422	581.738357	581.744819
581.752796	581.762236	581.773042	581.785063	581.798094
581.811872	581.826079	581.840347	581.854276	581.867444
581.879443	581.889900	581.898511	581.905067	581.909470
581.911736	581.911985	581.910422	581.907298	581.902887
581.897445	581.891193	581.884293	581.876839	581.868854
581.860293	581.851047	581.840952	581.829802	581.817355
581.803351	581.787519	581.769587	581.749296	581.726403
581.700692	581.671978	581.640110	581.604978	581.566509
581.524672	581.479473	581.430960	581.379218	581.324369
581.266574	581.206034	581.142991	581.077732	581.010593
580.941964	580.872294	580.802095	580.731943	580.662480
580.594403	580.528460	580.465428	580.406094	580.351226
580.301546	580.257699	580.220228	580.189550	580.165943
580.149532	580.140291	580.138042	580.142468	580.153122
580.169454	580.190831	580.216564	580.245944	580.278261

Row 99

581.877649	581.868307	581.859055	581.849912	581.840899
581.832046	581.823382	581.814947	581.806784	581.798940
581.791473	581.784444	581.777921	581.771979	581.766697
581.762161	581.758456	581.755672	581.753896	581.753214
581.753700	581.755423	581.758431	581.762756	581.768404
581.775350	581.783535	581.792859	581.803182	581.814316

581.826029	581.838049	581.850066	581.861749	581.872757
581.882761	581.891463	581.898620	581.904061	581.907695
581.909519	581.909603	581.908084	581.905136	581.900951
581.895715	581.889588	581.882690	581.875091	581.866806
581.857798	581.847978	581.837213	581.825334	581.812145
581.797428	581.780961	581.762518	581.741882	581.718850
581.693242	581.664901	581.633703	581.599555	581.562401
581.522219	581.479023	581.432862	581.383823	581.332028
581.277636	581.220841	581.161881	581.101032	581.038616
580.975003	580.910612	580.845916	580.781438	580.717753
580.655477	580.595259	580.537771	580.483682	580.433641
580.388257	580.348070	580.313537	580.285009	580.262720
580.246783	580.237180	580.233770	580.236295	580.244390
580.257603	580.275411	580.297241	580.322500	580.350587

Row 100

581.897359	581.888254	581.879257	581.870385	581.861661

581.853113	581.844771	581.836670	581.828852	581.821362
581.814250	581.807574	581.801394	581.795776	581.790790
581.786509	581.783007	581.780358	581.778634	581.777904
581.778226	581.779650	581.782210	581.785922	581.790779
581.796749	581.803769	581.811741	581.820534	581.829980
581.839876	581.849988	581.860054	581.869800	581.878945
581.887222	581.894389	581.900249	581.904655	581.907525
581.908840	581.908639	581.907006	581.904061	581.899935
581.894760	581.888651	581.881692	581.873933	581.865381
581.856003	581.845725	581.834438	581.822002	581.808255
581.793020	581.776111	581.757341	581.736529	581.713507
581.688124	581.660252	581.629787	581.596655	581.560813
581.522249	581.480983	581.437070	581.390595	581.341679
581.290478	581.237181	581.182016	581.125246	581.067178
581.008157	580.948573	580.888858	580.829488	580.770975
580.713862	580.658719	580.606123	580.556649	580.510849
580.469240	580.432277	580.400347	580.373747	580.352678
580.337238	580.327418	580.323106	580.324093	580.330079
580.340690	580.355492	580.374008	580.395738	580.420173

Streamlines

Number of Streamlines = 250

Streamline #1

Coordinates of Streamline:
Start x: 9986.660000 y: 9520.860000
End x: 10066.256172 y: 9498.851440

Streamline #2

Coordinates of Streamline:
Start x: 9992.838983 y: 9528.603390
End x: 10063.576820 y: 9500.518384

Streamline #3

Coordinates of Streamline:
Start x: 9999.017966 y: 9536.346780
End x: 10067.396066 y: 9501.263794

Streamline #4

Coordinates of Streamline:
Start x: 10005.196949 y: 9544.090169
End x: 10063.098177 y: 9509.789366

Streamline #5

Coordinates of Streamline:
Start x: 10011.375932 y: 9551.833559
End x: 10071.354468 y: 9505.912666

Streamline #6

Coordinates of Streamline:
Start x: 10017.554915 y: 9559.576949
End x: 10076.967850 y: 9504.755105

Streamline #7

Coordinates of Streamline:
Start x: 10023.733898 y: 9567.320339
End x: 10088.296201 y: 9527.386344

Streamline #8

Coordinates of Streamline:
Start x: 10029.912881 y: 9575.063729
End x: 10083.505496 y: 9534.394417

Streamline #9

Coordinates of Streamline:
Start x: 10036.091864 y: 9582.807119
End x: 10086.778762 y: 9538.543457

Streamline #10

Coordinates of Streamline:
Start x: 10042.270847 y: 9590.550508
End x: 10091.361757 y: 9533.844880

Streamline #11

Coordinates of Streamline:
Start x: 10048.449831 y: 9598.293898
End x: 10096.936774 y: 9540.596087

Streamline #12

Coordinates of Streamline:
Start x: 10054.628814 y: 9606.037288
End x: 10101.177915 y: 9535.677014

Streamline #13

Coordinates of Streamline:
Start x: 10060.807797 y: 9613.780678
End x: 10107.715539 y: 9565.539023

Streamline #14

Coordinates of Streamline:
Start x: 10066.986780 y: 9621.524068
End x: 10111.674767 y: 9571.334767

Streamline #15

Coordinates of Streamline:
Start x: 10073.165763 y: 9629.267458
End x: 10117.847473 y: 9568.667547

Streamline #16

Coordinates of Streamline:
Start x: 10079.344746 y: 9637.010847
End x: 10127.907594 y: 9569.003882

Streamline #17

Coordinates of Streamline:
Start x: 10085.523729 y: 9644.754237
End x: 10140.261638 y: 9592.843090

Streamline #18

Coordinates of Streamline:
Start x: 10091.702712 y: 9652.497627
End x: 10135.384215 y: 9601.381092

Streamline #19

Coordinates of Streamline:
Start x: 10097.881695 y: 9660.241017
End x: 10141.841346 y: 9598.874689

Streamline #20

Coordinates of Streamline:
Start x: 10104.060678 y: 9667.984407
End x: 10149.900947 y: 9599.674099

Streamline #21

Coordinates of Streamline:
Start x: 10110.239661 y: 9675.727797

End x: 10164.842351 y: 9623.903700

Streamline #22

Coordinates of Streamline:
Start x: 10116.418644 y: 9683.471186
End x: 10167.648239 y: 9626.407905

Streamline #23

Coordinates of Streamline:
Start x: 10122.597627 y: 9691.214576
End x: 10167.036335 y: 9630.437083

Streamline #24

Coordinates of Streamline:
Start x: 10128.776610 y: 9698.957966
End x: 10184.614851 y: 9645.808390

Streamline #25

Coordinates of Streamline:
Start x: 10134.955593 y: 9706.701356
End x: 10181.306193 y: 9657.974085

Streamline #26

Coordinates of Streamline:
Start x: 10141.134576 y: 9714.444746
End x: 10184.728445 y: 9663.442161

Streamline #27

Coordinates of Streamline:
Start x: 10147.313559 y: 9722.188136
End x: 10190.490319 y: 9661.883886

Streamline #28

Coordinates of Streamline:
Start x: 10153.492542 y: 9729.931525
End x: 10210.208129 y: 9683.385939

Streamline #29

Coordinates of Streamline:
Start x: 10159.671525 y: 9737.674915
End x: 10205.983286 y: 9688.909699

Streamline #30

Coordinates of Streamline:
Start x: 10165.850508 y: 9745.418305
End x: 10212.178560 y: 9685.888837

Streamline #31

Coordinates of Streamline:
Start x: 10172.029492 y: 9753.161695
End x: 10219.400893 y: 9687.318867

Streamline #32

Coordinates of Streamline:
Start x: 10178.208475 y: 9760.905085
End x: 10228.179848 y: 9715.920917

Streamline #33

Coordinates of Streamline:
Start x: 10184.387458 y: 9768.648475
End x: 10232.030152 y: 9721.595126

Streamline #34

Coordinates of Streamline:
Start x: 10190.566441 y: 9776.391864
End x: 10236.939754 y: 9721.023996

Streamline #35

Coordinates of Streamline:
Start x: 10196.745424 y: 9784.135254
End x: 10258.813736 y: 9748.431586

Streamline #36

Coordinates of Streamline:
Start x: 10202.924407 y: 9791.878644
End x: 10255.383386 y: 9749.789635

Streamline #37

Coordinates of Streamline:
Start x: 10209.103390 y: 9799.622034
End x: 10264.107757 y: 9747.261818

Streamline #38

Coordinates of Streamline:
Start x: 10215.282373 y: 9807.365424
End x: 10280.201767 y: 9766.910048

Streamline #39

Coordinates of Streamline:
Start x: 10221.461356 y: 9815.108814
End x: 10276.732533 y: 9777.984635

Streamline #40

Coordinates of Streamline:
Start x: 10227.640339 y: 9822.852203
End x: 10280.033990 y: 9780.745462

Streamline #41

Coordinates of Streamline:
Start x: 10233.819322 y: 9830.595593
End x: 10280.906684 y: 9783.203796

Streamline #42

Coordinates of Streamline:
Start x: 10239.998305 y: 9838.338983
End x: 10287.549617 y: 9779.834965

Streamline #43

Coordinates of Streamline:
Start x: 10246.177288 y: 9846.082373
End x: 10280.582171 y: 9781.745035

Streamline #44

Coordinates of Streamline:
Start x: 10252.356271 y: 9853.825763
End x: 10300.177691 y: 9807.393088

Streamline #45

Coordinates of Streamline:
Start x: 10258.535254 y: 9861.569153
End x: 10302.603881 y: 9811.044681

Streamline #46

Coordinates of Streamline:
Start x: 10264.714237 y: 9869.312542
End x: 10303.307536 y: 9814.164302

Streamline #47

Coordinates of Streamline:
Start x: 10270.893220 y: 9877.055932
End x: 10309.810216 y: 9810.824645

Streamline #48

Coordinates of Streamline:
Start x: 10277.072203 y: 9884.799322
End x: 10308.105605 y: 9815.045221

Streamline #49

Coordinates of Streamline:
Start x: 10283.251186 y: 9892.542712
End x: 10312.153969 y: 9812.135964

Streamline #50

Coordinates of Streamline:
Start x: 10289.430169 y: 9900.286102
End x: 10311.939304 y: 9812.396838

Streamline #51

Coordinates of Streamline:
Start x: 10295.609153 y: 9908.029492
End x: 10329.698660 y: 9838.516767

Streamline #52

Coordinates of Streamline:
Start x: 10301.788136 y: 9915.772881
End x: 10327.354502 y: 9839.397436

Streamline #53

Coordinates of Streamline:
Start x: 10307.967119 y: 9923.516271
End x: 10332.472877 y: 9846.106231

Streamline #54

Coordinates of Streamline:
Start x: 10314.146102 y: 9931.259661
End x: 10327.724388 y: 9843.117440

Streamline #55

Coordinates of Streamline:
Start x: 10320.325085 y: 9939.003051
End x: 10328.386602 y: 9843.322290

Streamline #56

Coordinates of Streamline:
Start x: 10326.504068 y: 9946.746441
End x: 10326.392818 y: 9843.114946

Streamline #57

Coordinates of Streamline:
Start x: 10332.683051 y: 9954.489831
End x: 10331.996763 y: 9844.523299

Streamline #58

Coordinates of Streamline:
Start x: 10338.862034 y: 9962.233220
End x: 10324.862305 y: 9839.645213

Streamline #59

Coordinates of Streamline:
Start x: 10345.041017 y: 9969.976610
End x: 10327.595802 y: 9845.139970

Streamline #60

Coordinates of Streamline:
Start x: 10351.220000 y: 9977.720000
End x: 10281.386841 y: 9945.419637

Streamline #61

Coordinates of Streamline:
Start x: 10352.300000 y: 9973.150000
End x: 10332.011090 y: 9844.781774

Streamline #62

Coordinates of Streamline:
Start x: 10362.693265 y: 9969.654490
End x: 10330.584673 y: 9848.714910

Streamline #63

Coordinates of Streamline:
Start x: 10373.086531 y: 9966.158980
End x: 10334.394653 y: 9851.398316

Streamline #64

Coordinates of Streamline:
Start x: 10383.479796 y: 9962.663469
End x: 10362.574694 y: 9880.395391

Streamline #65

Coordinates of Streamline:
Start x: 10393.873061 y: 9959.167959
End x: 10369.894176 y: 9878.403103

Streamline #66

Coordinates of Streamline:
Start x: 10404.266327 y: 9955.672449
End x: 10436.480921 y: 9879.050388

Streamline #67

Coordinates of Streamline:
Start x: 10414.659592 y: 9952.176939
End x: 10440.749289 y: 9876.155040

Streamline #68

Coordinates of Streamline:
Start x: 10425.052857 y: 9948.681429
End x: 10441.784741 y: 9876.427113

Streamline #69

Coordinates of Streamline:
Start x: 10435.446122 y: 9945.185918
End x: 10443.561323 y: 9879.515030

Streamline #70

Coordinates of Streamline:
Start x: 10445.839388 y: 9941.690408
End x: 10442.250428 y: 9876.032942

Streamline #71

Coordinates of Streamline:
Start x: 10456.232653 y: 9938.194898
End x: 10450.607073 y: 9880.979511

Streamline #72

Coordinates of Streamline:
Start x: 10466.625918 y: 9934.699388
End x: 10446.608443 y: 9876.688599

Streamline #73

Coordinates of Streamline:
Start x: 10477.019184 y: 9931.203878
End x: 10470.452565 y: 9866.246291

Streamline #74

Coordinates of Streamline:
Start x: 10487.412449 y: 9927.708367
End x: 10476.216251 y: 9862.092351

Streamline #75

Coordinates of Streamline:
Start x: 10497.805714 y: 9924.212857
End x: 10475.993567 y: 9860.678694

Streamline #76

Coordinates of Streamline:
Start x: 10508.198980 y: 9920.717347
End x: 10479.034122 y: 9862.193829

Streamline #77

Coordinates of Streamline:
Start x: 10518.592245 y: 9917.221837
End x: 10508.891408 y: 9848.695557

Streamline #78

Coordinates of Streamline:
Start x: 10528.985510 y: 9913.726327
End x: 10507.948449 y: 9850.124142

Streamline #79

Coordinates of Streamline:
Start x: 10539.378776 y: 9910.230816
End x: 10512.427262 y: 9848.753300

Streamline #80

Coordinates of Streamline:
Start x: 10549.772041 y: 9906.735306
End x: 10515.026974 y: 9847.758284

Streamline #81

Coordinates of Streamline:
Start x: 10560.165306 y: 9903.239796
End x: 10539.468912 y: 9829.808349

Streamline #82

Coordinates of Streamline:
Start x: 10570.558571 y: 9899.744286
End x: 10539.850641 y: 9830.340446

Streamline #83

Coordinates of Streamline:
Start x: 10580.951837 y: 9896.248776
End x: 10557.881144 y: 9814.135932

Streamline #84

Coordinates of Streamline:
Start x: 10591.345102 y: 9892.753265
End x: 10569.792675 y: 9819.066802

Streamline #85

Coordinates of Streamline:
Start x: 10601.738367 y: 9889.257755
End x: 10574.578556 y: 9818.301666

Streamline #86

Coordinates of Streamline:
Start x: 10612.131633 y: 9885.762245
End x: 10596.911067 y: 9811.500863

Streamline #87

Coordinates of Streamline:
Start x: 10622.524898 y: 9882.266735
End x: 10600.801107 y: 9808.715016

Streamline #88

Coordinates of Streamline:
Start x: 10632.918163 y: 9878.771224
End x: 10619.475461 y: 9804.075637

Streamline #89

Coordinates of Streamline:
Start x: 10643.311429 y: 9875.275714
End x: 10628.202752 y: 9800.162620

Streamline #90

Coordinates of Streamline:
Start x: 10653.704694 y: 9871.780204
End x: 10628.272132 y: 9801.577929

Streamline #91

Coordinates of Streamline:
Start x: 10664.097959 y: 9868.284694
End x: 10656.380608 y: 9795.895773

Streamline #92

Coordinates of Streamline:
Start x: 10674.491224 y: 9864.789184
End x: 10659.358252 y: 9799.242922

Streamline #93

Coordinates of Streamline:
Start x: 10684.884490 y: 9861.293673
End x: 10657.098558 y: 9795.534782

Streamline #94

Coordinates of Streamline:
Start x: 10695.277755 y: 9857.798163
End x: 10689.058777 y: 9787.394706

Streamline #95

Coordinates of Streamline:
Start x: 10705.671020 y: 9854.302653
End x: 10688.219862 y: 9789.276801

Streamline #96

Coordinates of Streamline:
Start x: 10716.064286 y: 9850.807143
End x: 10694.941294 y: 9787.268714

Streamline #97

Coordinates of Streamline:
Start x: 10726.457551 y: 9847.311633
End x: 10710.032138 y: 9782.171356

Streamline #98

Coordinates of Streamline:
Start x: 10736.850816 y: 9843.816122
End x: 10716.291843 y: 9779.933460

Streamline #99

Coordinates of Streamline:
Start x: 10747.244082 y: 9840.320612
End x: 10711.919061 y: 9782.962660

Streamline #100

Coordinates of Streamline:
Start x: 10757.637347 y: 9836.825102
End x: 10744.879274 y: 9770.983367

Streamline #101

Coordinates of Streamline:
Start x: 10768.030612 y: 9833.329592
End x: 10748.811218 y: 9769.636986

Streamline #102

Coordinates of Streamline:
Start x: 10778.423878 y: 9829.834082
End x: 10771.404693 y: 9764.577217

Streamline #103

Coordinates of Streamline:
Start x: 10788.817143 y: 9826.338571
End x: 10774.755420 y: 9760.497009

Streamline #104

Coordinates of Streamline:
Start x: 10799.210408 y: 9822.843061
End x: 10776.900519 y: 9763.397354

Streamline #105

Coordinates of Streamline:
Start x: 10809.603673 y: 9819.347551
End x: 10806.864204 y: 9755.273421

Streamline #106

Coordinates of Streamline:
Start x: 10819.996939 y: 9815.852041
End x: 10808.150067 y: 9759.394176

Streamline #107

Coordinates of Streamline:
Start x: 10830.390204 y: 9812.356531
End x: 10808.397777 y: 9758.807771

Streamline #108

Coordinates of Streamline:
Start x: 10840.783469 y: 9808.861020
End x: 10833.977016 y: 9752.076079

Streamline #109

Coordinates of Streamline:
Start x: 10851.176735 y: 9805.365510
End x: 10837.084450 y: 9749.669492

Streamline #110

Coordinates of Streamline:
Start x: 10861.570000 y: 9801.870000
End x: 10846.205880 y: 9746.901408

Streamline #111

Coordinates of Streamline:
Start x: 10871.850000 y: 9796.160000
End x: 10867.355561 y: 9739.555090

Streamline #112

Coordinates of Streamline:
Start x: 10879.318378 y: 9794.370135
End x: 10865.994177 y: 9738.521736

Streamline #113

Coordinates of Streamline:
Start x: 10886.786757 y: 9792.580270
End x: 10868.365556 y: 9740.349513

Streamline #114

Coordinates of Streamline:
Start x: 10894.255135 y: 9790.790405
End x: 10886.181875 y: 9734.122184

Streamline #115

Coordinates of Streamline:
Start x: 10901.723514 y: 9789.000541
End x: 10896.093889 y: 9732.752284

Streamline #116

Coordinates of Streamline:
Start x: 10909.191892 y: 9787.210676

End x: 10895.742521 y: 9731.124344

Streamline #117

Coordinates of Streamline:
Start x: 10916.660270 y: 9785.420811
End x: 10897.183785 y: 9733.091543

Streamline #118

Coordinates of Streamline:
Start x: 10924.128649 y: 9783.630946
End x: 10918.501373 y: 9719.496474

Streamline #119

Coordinates of Streamline:
Start x: 10931.597027 y: 9781.841081
End x: 10926.278025 y: 9726.089547

Streamline #120

Coordinates of Streamline:
Start x: 10939.065405 y: 9780.051216
End x: 10926.207908 y: 9723.798469

Streamline #121

Coordinates of Streamline:
Start x: 10946.533784 y: 9778.261351
End x: 10926.583008 y: 9725.701406

Streamline #122

Coordinates of Streamline:
Start x: 10954.002162 y: 9776.471486
End x: 10936.547020 y: 9722.088400

Streamline #123

Coordinates of Streamline:
Start x: 10961.470541 y: 9774.681622
End x: 10955.706734 y: 9719.269864

Streamline #124

Coordinates of Streamline:
Start x: 10968.938919 y: 9772.891757
End x: 10956.487401 y: 9716.608040

Streamline #125

Coordinates of Streamline:
Start x: 10976.407297 y: 9771.101892
End x: 10956.625140 y: 9718.134342

Streamline #126

Coordinates of Streamline:
Start x: 10983.875676 y: 9769.312027
End x: 10965.647316 y: 9715.498828

Streamline #127

Coordinates of Streamline:
Start x: 10991.344054 y: 9767.522162
End x: 10986.435688 y: 9712.273927

Streamline #128

Coordinates of Streamline:
Start x: 10998.812432 y: 9765.732297
End x: 10987.483660 y: 9709.260680

Streamline #129

Coordinates of Streamline:
Start x: 11006.280811 y: 9763.942432
End x: 10987.488731 y: 9710.357295

Streamline #130

Coordinates of Streamline:
Start x: 11013.749189 y: 9762.152568
End x: 10994.684926 y: 9708.952564

Streamline #131

Coordinates of Streamline:
Start x: 11021.217568 y: 9760.362703
End x: 11015.124902 y: 9704.989271

Streamline #132

Coordinates of Streamline:
Start x: 11028.685946 y: 9758.572838
End x: 11017.868741 y: 9702.179681

Streamline #133

Coordinates of Streamline:
Start x: 11036.154324 y: 9756.782973
End x: 11017.626391 y: 9702.815068

Streamline #134

Coordinates of Streamline:
Start x: 11043.622703 y: 9754.993108
End x: 11024.156899 y: 9702.107973

Streamline #135

Coordinates of Streamline:
Start x: 11051.091081 y: 9753.203243
End x: 11046.457295 y: 9698.546342

Streamline #136

Coordinates of Streamline:
Start x: 11058.559459 y: 9751.413378
End x: 11049.550819 y: 9695.119210

Streamline #137

Coordinates of Streamline:
Start x: 11066.027838 y: 9749.623514
End x: 11047.706212 y: 9695.393251

Streamline #138

Coordinates of Streamline:
Start x: 11073.496216 y: 9747.833649
End x: 11051.505246 y: 9697.096918

Streamline #139

Coordinates of Streamline:
Start x: 11080.964595 y: 9746.043784
End x: 11073.040758 y: 9690.665130

Streamline #140

Coordinates of Streamline:
Start x: 11088.432973 y: 9744.253919
End x: 11080.038289 y: 9688.471085

Streamline #141

Coordinates of Streamline:
Start x: 11095.901351 y: 9742.464054
End x: 11078.204935 y: 9687.737766

Streamline #142

Coordinates of Streamline:
Start x: 11103.369730 y: 9740.674189
End x: 11081.389569 y: 9689.590711

Streamline #143

Coordinates of Streamline:
Start x: 11110.838108 y: 9738.884324
End x: 11101.938334 y: 9683.217121

Streamline #144

Coordinates of Streamline:
Start x: 11118.306486 y: 9737.094459
End x: 11109.785041 y: 9681.182640

Streamline #145

Coordinates of Streamline:
Start x: 11125.774865 y: 9735.304595
End x: 11108.188459 y: 9680.651004

Streamline #146

Coordinates of Streamline:
Start x: 11133.243243 y: 9733.514730
End x: 11112.741021 y: 9681.387486

Streamline #147

Coordinates of Streamline:
Start x: 11140.711622 y: 9731.724865
End x: 11132.466496 y: 9675.646413

Streamline #148

Coordinates of Streamline:
Start x: 11148.180000 y: 9729.935000
End x: 11137.558738 y: 9673.335702

Streamline #149

Coordinates of Streamline:
Start x: 11155.648378 y: 9728.145135
End x: 11138.943801 y: 9674.001730

Streamline #150

Coordinates of Streamline:
Start x: 11163.116757 y: 9726.355270
End x: 11165.191236 y: 9669.792133

Streamline #151

Coordinates of Streamline:
Start x: 11170.585135 y: 9724.565405
End x: 11165.453698 y: 9667.415039

Streamline #152

Coordinates of Streamline:
Start x: 11178.053514 y: 9722.775541
End x: 11166.959136 y: 9666.761154

Streamline #153

Coordinates of Streamline:
Start x: 11185.521892 y: 9720.985676
End x: 11190.632839 y: 9665.051739

Streamline #154

Coordinates of Streamline:
Start x: 11192.990270 y: 9719.195811
End x: 11192.180209 y: 9661.849940

Streamline #155

Coordinates of Streamline:
Start x: 11200.458649 y: 9717.405946
End x: 11195.050702 y: 9660.197189

Streamline #156

Coordinates of Streamline:
Start x: 11207.927027 y: 9715.616081
End x: 11215.968030 y: 9658.113856

Streamline #157

Coordinates of Streamline:
Start x: 11215.395405 y: 9713.826216
End x: 11218.383051 y: 9656.712224

Streamline #158

Coordinates of Streamline:
Start x: 11222.863784 y: 9712.036351
End x: 11222.633864 y: 9654.362775

Streamline #159

Coordinates of Streamline:
Start x: 11230.332162 y: 9710.246486
End x: 11228.253672 y: 9652.730000

Streamline #160

Coordinates of Streamline:
Start x: 11237.800541 y: 9708.456622
End x: 11246.680213 y: 9644.360114

Streamline #161

Coordinates of Streamline:
Start x: 11245.268919 y: 9706.666757
End x: 11253.877371 y: 9641.030967

Streamline #162

Coordinates of Streamline:
Start x: 11252.737297 y: 9704.876892
End x: 11255.165067 y: 9647.352911

Streamline #163

Coordinates of Streamline:
Start x: 11260.205676 y: 9703.087027
End x: 11259.382091 y: 9645.424680

Streamline #164

Coordinates of Streamline:
Start x: 11267.674054 y: 9701.297162
End x: 11265.347865 y: 9643.671607

Streamline #165

Coordinates of Streamline:
Start x: 11275.142432 y: 9699.507297
End x: 11276.100358 y: 9632.670371

Streamline #166

Coordinates of Streamline:
Start x: 11282.610811 y: 9697.717432
End x: 11286.664570 y: 9632.470200

Streamline #167

Coordinates of Streamline:
Start x: 11290.079189 y: 9695.927568
End x: 11286.676887 y: 9638.379088

Streamline #168

Coordinates of Streamline:
Start x: 11297.547568 y: 9694.137703
End x: 11291.112543 y: 9636.800249

Streamline #169

Coordinates of Streamline:
Start x: 11305.015946 y: 9692.347838
End x: 11296.674938 y: 9635.262993

Streamline #170

Coordinates of Streamline:
Start x: 11312.484324 y: 9690.557973
End x: 11303.489368 y: 9633.559469

Streamline #171

Coordinates of Streamline:
Start x: 11319.952703 y: 9688.768108
End x: 11309.683752 y: 9631.988730

Streamline #172

Coordinates of Streamline:
Start x: 11327.421081 y: 9686.978243
End x: 11315.022277 y: 9630.631637

Streamline #173

Coordinates of Streamline:
Start x: 11334.889459 y: 9685.188378
End x: 11321.812104 y: 9628.988851

Streamline #174

Coordinates of Streamline:
Start x: 11342.357838 y: 9683.398514
End x: 11328.448116 y: 9627.405989

Streamline #175

Coordinates of Streamline:
Start x: 11349.826216 y: 9681.608649
End x: 11334.596531 y: 9625.968683

Streamline #176

Coordinates of Streamline:
Start x: 11357.294595 y: 9679.818784
End x: 11342.319511 y: 9624.129395

Streamline #177

Coordinates of Streamline:
Start x: 11364.762973 y: 9678.028919
End x: 11349.474017 y: 9622.412515

Streamline #178

Coordinates of Streamline:
Start x: 11372.231351 y: 9676.239054
End x: 11357.444616 y: 9620.466183

Streamline #179

Coordinates of Streamline:
Start x: 11379.699730 y: 9674.449189
End x: 11366.763636 y: 9618.219305

Streamline #180

Coordinates of Streamline:
Start x: 11387.168108 y: 9672.659324
End x: 11375.722128 y: 9616.113635

Streamline #181

Coordinates of Streamline:
Start x: 11394.636486 y: 9670.869459
End x: 11386.147550 y: 9613.812737

Streamline #182

Coordinates of Streamline:
Start x: 11402.104865 y: 9669.079595
End x: 11396.046709 y: 9611.752615

Streamline #183

Coordinates of Streamline:
Start x: 11409.573243 y: 9667.289730
End x: 11406.507992 y: 9609.769768

Streamline #184

Coordinates of Streamline:
Start x: 11417.041622 y: 9665.499865
End x: 11417.628030 y: 9598.311666

Streamline #185

Coordinates of Streamline:
Start x: 11424.510000 y: 9663.710000
End x: 11428.055374 y: 9606.347494

Streamline #186

Coordinates of Streamline:
Start x: 11426.790000 y: 9663.710000
End x: 11428.416949 y: 9597.433489

Streamline #187

Coordinates of Streamline:
Start x: 11428.395781 y: 9669.740469
End x: 11437.387905 y: 9603.344137

Streamline #188

Coordinates of Streamline:
Start x: 11430.001563 y: 9675.770937
End x: 11444.363726 y: 9600.667849

Streamline #189

Coordinates of Streamline:
Start x: 11431.607344 y: 9681.801406
End x: 11450.720122 y: 9598.830147

Streamline #190

Coordinates of Streamline:
Start x: 11433.213125 y: 9687.831875
End x: 11463.426767 y: 9607.580675

Streamline #191

Coordinates of Streamline:
Start x: 11434.818906 y: 9693.862344
End x: 11477.734640 y: 9619.035041

Streamline #192

Coordinates of Streamline:
Start x: 11436.424688 y: 9699.892812
End x: 11487.832630 y: 9642.764943

Streamline #193

Coordinates of Streamline:
Start x: 11438.030469 y: 9705.923281
End x: 11493.364318 y: 9653.290935

Streamline #194

Coordinates of Streamline:
Start x: 11439.636250 y: 9711.953750
End x: 11497.154780 y: 9677.871433

Streamline #195

Coordinates of Streamline:
Start x: 11441.242031 y: 9717.984219
End x: 11500.456775 y: 9686.397955

Streamline #196

Coordinates of Streamline:
Start x: 11442.847813 y: 9724.014687
End x: 11506.935387 y: 9705.697246

Streamline #197

Coordinates of Streamline:
Start x: 11444.453594 y: 9730.045156
End x: 11508.859145 y: 9711.715366

Streamline #198

Coordinates of Streamline:
Start x: 11446.059375 y: 9736.075625
End x: 11531.886812 y: 9705.976965

Streamline #199

Coordinates of Streamline:
Start x: 11447.665156 y: 9742.106094
End x: 11514.261962 y: 9740.168147

Streamline #200

Coordinates of Streamline:
Start x: 11449.270938 y: 9748.136563
End x: 11516.438846 y: 9743.825574

Streamline #201

Coordinates of Streamline:
Start x: 11450.876719 y: 9754.167031
End x: 11516.014192 y: 9744.379934

Streamline #202

Coordinates of Streamline:
Start x: 11452.482500 y: 9760.197500
End x: 11518.512675 y: 9751.419958

Streamline #203

Coordinates of Streamline:
Start x: 11454.088281 y: 9766.227969
End x: 11526.146375 y: 9770.167083

Streamline #204

Coordinates of Streamline:
Start x: 11455.694063 y: 9772.258437
End x: 11521.807273 y: 9772.287990

Streamline #205

Coordinates of Streamline:
Start x: 11457.299844 y: 9778.288906
End x: 11514.761749 y: 9773.228705

Streamline #206

Coordinates of Streamline:
Start x: 11458.905625 y: 9784.319375
End x: 11516.176005 y: 9777.272789

Streamline #207

Coordinates of Streamline:
Start x: 11460.511406 y: 9790.349844
End x: 11517.454572 y: 9781.348263

Streamline #208

Coordinates of Streamline:
Start x: 11462.117188 y: 9796.380312
End x: 11526.798321 y: 9781.225107

Streamline #209

Coordinates of Streamline:
Start x: 11463.722969 y: 9802.410781
End x: 11530.161672 y: 9795.500520

Streamline #210

Coordinates of Streamline:
Start x: 11465.328750 y: 9808.441250
End x: 11529.153074 y: 9806.795114

Streamline #211

Coordinates of Streamline:
Start x: 11466.934531 y: 9814.471719

End x: 11523.739685 y: 9804.980591

Streamline #212

Coordinates of Streamline:
Start x: 11468.540313 y: 9820.502188
End x: 11524.926188 y: 9808.230712

Streamline #213

Coordinates of Streamline:
Start x: 11470.146094 y: 9826.532656
End x: 11525.733594 y: 9811.314915

Streamline #214

Coordinates of Streamline:
Start x: 11471.751875 y: 9832.563125
End x: 11526.889473 y: 9815.915481

Streamline #215

Coordinates of Streamline:
Start x: 11473.357656 y: 9838.593594
End x: 11536.504981 y: 9816.600120

Streamline #216

Coordinates of Streamline:
Start x: 11474.963438 y: 9844.624062
End x: 11539.619192 y: 9831.959001

Streamline #217

Coordinates of Streamline:
Start x: 11476.569219 y: 9850.654531
End x: 11531.921331 y: 9834.756423

Streamline #218

Coordinates of Streamline:
Start x: 11478.175000 y: 9856.685000
End x: 11533.004954 y: 9838.799094

Streamline #219

Coordinates of Streamline:
Start x: 11479.780781 y: 9862.715469
End x: 11533.653051 y: 9842.067968

Streamline #220

Coordinates of Streamline:
Start x: 11481.386563 y: 9868.745938
End x: 11534.390981 y: 9846.159776

Streamline #221

Coordinates of Streamline:
Start x: 11482.992344 y: 9874.776406
End x: 11540.788604 y: 9843.375308

Streamline #222

Coordinates of Streamline:
Start x: 11484.598125 y: 9880.806875
End x: 11545.609149 y: 9843.338718

Streamline #223

Coordinates of Streamline:
Start x: 11486.203906 y: 9886.837344
End x: 11548.719178 y: 9863.712918

Streamline #224

Coordinates of Streamline:
Start x: 11487.809688 y: 9892.867812
End x: 11549.561075 y: 9871.436212

Streamline #225

Coordinates of Streamline:
Start x: 11489.415469 y: 9898.898281
End x: 11541.007266 y: 9873.113446

Streamline #226

Coordinates of Streamline:
Start x: 11491.021250 y: 9904.928750
End x: 11550.324904 y: 9873.394405

Streamline #227

Coordinates of Streamline:
Start x: 11492.627031 y: 9910.959219
End x: 11548.559413 y: 9874.710793

Streamline #228

Coordinates of Streamline:
Start x: 11494.232813 y: 9916.989687
End x: 11548.713821 y: 9879.477352

Streamline #229

Coordinates of Streamline:
Start x: 11495.838594 y: 9923.020156
End x: 11551.686671 y: 9876.334893

Streamline #230

Coordinates of Streamline:
Start x: 11497.444375 y: 9929.050625
End x: 11553.321605 y: 9875.241206

Streamline #231

Coordinates of Streamline:
Start x: 11499.050156 y: 9935.081094
End x: 11559.462395 y: 9875.104417

Streamline #232

Coordinates of Streamline:
Start x: 11500.655938 y: 9941.111563
End x: 11556.970232 y: 9875.334910

Streamline #233

Coordinates of Streamline:
Start x: 11502.261719 y: 9947.142031
End x: 11582.842108 y: 9897.802857

Streamline #234

Coordinates of Streamline:
Start x: 11503.867500 y: 9953.172500
End x: 11588.947706 y: 9910.014869

Streamline #235

Coordinates of Streamline:
Start x: 11505.473281 y: 9959.202969
End x: 11593.482033 y: 9921.363788

Streamline #236

Coordinates of Streamline:
Start x: 11507.079063 y: 9965.233437
End x: 11597.143117 y: 9932.041010

Streamline #237

Coordinates of Streamline:
Start x: 11508.684844 y: 9971.263906
End x: 11600.214430 y: 9942.039959

Streamline #238

Coordinates of Streamline:
Start x: 11510.290625 y: 9977.294375
End x: 11602.914204 y: 9951.568866

Streamline #239

Coordinates of Streamline:
Start x: 11511.896406 y: 9983.324844
End x: 11604.436745 y: 9958.701362

Streamline #240

Coordinates of Streamline:
Start x: 11513.502188 y: 9989.355313
End x: 11598.177974 y: 9971.884426

Streamline #241

Coordinates of Streamline:
Start x: 11515.107969 y: 9995.385781
End x: 11599.945055 y: 9978.563908

Streamline #242

Coordinates of Streamline:
Start x: 11516.713750 y: 10001.416250
End x: 11601.566988 y: 9984.534924

Streamline #243

Coordinates of Streamline:
Start x: 11518.319531 y: 10007.446719
End x: 11603.099877 y: 9990.161324

Streamline #244

Coordinates of Streamline:
Start x: 11519.925313 y: 10013.477188
End x: 11604.563610 y: 9995.540278

Streamline #245

Coordinates of Streamline:
Start x: 11521.531094 y: 10019.507656
End x: 11605.965991 y: 10000.716429

Streamline #246

Coordinates of Streamline:
Start x: 11523.136875 y: 10025.538125
End x: 11607.308543 y: 10005.714568

Streamline #247

Coordinates of Streamline:
Start x: 11524.742656 y: 10031.568594
End x: 11608.589078 y: 10010.550502

Streamline #248

Coordinates of Streamline:
Start x: 11526.348438 y: 10037.599063
End x: 11609.802938 y: 10015.235643

Streamline #249

Coordinates of Streamline:
Start x: 11527.954219 y: 10043.629531
End x: 11610.943620 y: 10019.779353

Streamline #250

Coordinates of Streamline:
Start x: 11529.560000 y: 10049.660000
End x: 11612.003127 y: 10024.190393

****

Particle Traces

Number of Particle-traces = 0

APPENDIX C-3

GROUNDWATER MODELING OF REMEDIAL ALTERNATIVES – AREA BCE

Area BCE Collection Trench Modeling Summary

WinFlow
Analytical Model of 2D Ground-Water Flow

Developed by

James O. Rumbaugh, III

Douglas B. Rumbaugh

(c) 1995 Environmental Simulations, Inc.

Date: 10/19/99
Time: 16:49:55.00

Input File: PND4-2B2.WFL
Map File : C:\WINFLOW\BCC\CURRENT\BCCCLEAN.MAP

Model Entities

Number of Linesinks Defined by Infiltration Rate = 0

Number of Linesinks Defined by Head = 95

Line Sink #1
x1: 9455.809570 y1: 8852.379883
x2: 9532.019531 y2: 8919.309570
Discharge per length = 0.001115
Head in Center of Linesink = 573.999207
Total Linesink Discharge = 0.113122 [L3/T]

Line Sink #2
x1: 9758.330078 y1: 8921.110352
x2: 9856.000000 y2: 8920.000000
Discharge per length = 0.000284
Head in Center of Linesink = 573.999878
Total Linesink Discharge = 0.027703 [L3/T]

Line Sink #3
x1: 9933.679688 y1: 9097.740234
x2: 9962.000000 y2: 9176.000000
Discharge per length = 0.000666
Head in Center of Linesink = 574.000000
Total Linesink Discharge = 0.055408 [L3/T]

Line Sink #4
x1: 10070.490234 y1: 9330.889648
x2: 10125.000000 y2: 9402.000000
Discharge per length = 0.000628
Head in Center of Linesink = 573.999939
Total Linesink Discharge = 0.056279 [L3/T]

Line Sink #5
x1: 10243.269531 y1: 9391.910156
x2: 10352.000000 y2: 9380.000000
Discharge per length = 0.001016
Head in Center of Linesink = 573.999573
Total Linesink Discharge = 0.111154 [L3/T]

Line Sink #6
x1: 10466.790039 y1: 9379.070313
x2: 10570.000000 y2: 9384.000000
Discharge per length = 0.001833
Head in Center of Linesink = 573.999939
Total Linesink Discharge = 0.189373 [L3/T]

Line Sink #7
x1: 10676.169922 y1: 9380.349609
x2: 10766.000000 y2: 9374.000000
Discharge per length = 0.001009
Head in Center of Linesink = 573.999451
Total Linesink Discharge = 0.090877 [L3/T]

Line Sink #8
x1: 10958.150391 y1: 9452.929688
x2: 11058.000000 y2: 9493.280273
Discharge per length = 0.000869
Head in Center of Linesink = 574.000000
Total Linesink Discharge = 0.093565 [L3/T]

Line Sink #9
x1: 11164.320313 y1: 9533.219727
x2: 11264.900391 y2: 9559.000000
Discharge per length = 0.001627
Head in Center of Linesink = 574.000000
Total Linesink Discharge = 0.168929 [L3/T]

Line Sink #10

```
   x1: 11274.799805   y1: 9557.620117
   x2: 11375.000000   y2: 9548.629883
   Discharge per length = 0.000041
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.004081 [L3/T]
Line Sink #11
   x1: 11798.269531   y1: 9458.070313
   x2: 11910.019531   y2: 9429.009766
   Discharge per length = 0.002076
   Head in Center of Linesink    = 573.999756
   Total Linesink Discharge      = 0.239748 [L3/T]
Line Sink #12
   x1: 12250.440430   y1: 9339.889648
   x2: 12379.919922   y2: 9307.370117
   Discharge per length = 0.000676
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.090251 [L3/T]
Line Sink #13
   x1: 12609.480469   y1: 9251.900391
   x2: 12842.719727   y2: 9201.009766
   Discharge per length = 0.001033
   Head in Center of Linesink    = 573.999756
   Total Linesink Discharge      = 0.246709 [L3/T]
Line Sink #14
   x1: 9238.709961   y1: 8655.839844
   x2: 9162.280273   y2: 8589.679688
   Discharge per length = 0.000440
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.044451 [L3/T]
Line Sink #15
   x1: 8799.389648   y1: 8269.179688
   x2: 8743.000000   y2: 8212.000000
   Discharge per length = 0.001523
   Head in Center of Linesink    = 573.999573
   Total Linesink Discharge      = 0.122339 [L3/T]
Line Sink #16
   x1: 9305.000000   y1: 7620.000000
   x2: 9499.110352   y2: 7798.709961
   Discharge per length = 0.000733
   Head in Center of Linesink    = 573.999695
   Total Linesink Discharge      = 0.193352 [L3/T]
Line Sink #17
   x1: 10618.910156   y1: 8563.019531
   x2: 10893.000000   y2: 8655.000000
   Discharge per length = 0.000165
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.047842 [L3/T]
Line Sink #18
   x1: 10298.349609   y1: 10053.889648
   x2: 10275.230469   y2: 9945.990234
   Discharge per length = 0.000099
   Head in Center of Linesink    = 579.000000
   Total Linesink Discharge      = 0.010963 [L3/T]
Line Sink #19
   x1: 9915.799805   y1: 10113.259766
   x2: 10032.509766   y2: 10055.139648
   Discharge per length = 0.001139
   Head in Center of Linesink    = 578.999939
   Total Linesink Discharge      = 0.148451 [L3/T]
Line Sink #20
   x1: 9803.790039   y1: 10170.790039
   x2: 9702.000000   y2: 10222.000000
   Discharge per length = 0.001866
   Head in Center of Linesink    = 578.999878
   Total Linesink Discharge      = 0.212583 [L3/T]
Line Sink #21
   x1: 10341.650391   y1: 9900.759766
   x2: 10457.000000   y2: 9838.719727
   Discharge per length = -0.003623
   Head in Center of Linesink    = 579.000061
   Total Linesink Discharge      = -0.474524 [L3/T]
Line Sink #22
   x1: 10574.030273   y1: 9781.690430
   x2: 10679.879883   y2: 9750.730469
   Discharge per length = -0.002832
   Head in Center of Linesink    = 578.999939
   Total Linesink Discharge      = -0.312298 [L3/T]
Line Sink #23
   x1: 10795.110352   y1: 9720.509766
   x2: 10904.009766   y2: 9693.559570
   Discharge per length = -0.003601
   Head in Center of Linesink    = 579.000366
   Total Linesink Discharge      = -0.404015 [L3/T]
Line Sink #24
   x1: 11634.080078   y1: 10079.360352
   x2: 11606.690430   y2: 9965.889648
   Discharge per length = 0.002655
   Head in Center of Linesink    = 576.999817
   Total Linesink Discharge      = 0.309948 [L3/T]
Line Sink #25
   x1: 11447.019531   y1: 10428.690430
   x2: 11581.000000   y2: 10397.530273
   Discharge per length = 0.002303
   Head in Center of Linesink    = 575.000000
   Total Linesink Discharge      = 0.316786 [L3/T]
```

```
Line Sink #26
   x1: 11748.410156   y1: 10464.120117
   x2: 11704.809570   y2: 10284.269531
   Discharge per length = 0.001633
   Head in Center of Linesink    = 574.999939
   Total Linesink Discharge      = 0.302115 [L3/T]
Line Sink #27
   x1: 11243.259766   y1: 9603.580078
   x2: 11342.610352   y2: 9578.759766
   Discharge per length = 0.000677
   Head in Center of Linesink    = 574.000061
   Total Linesink Discharge      = 0.069337 [L3/T]
Line Sink #28
   x1: 9013.269531   y1: 8457.370117
   x2: 9089.059570   y2: 8525.450195
   Discharge per length = 0.000422
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.042982 [L3/T]
Line Sink #29
   x1: 9089.059570   y1: 8526.740234
   x2: 9159.709961   y2: 8588.400391
   Discharge per length = 0.000422
   Head in Center of Linesink    = 573.999878
   Total Linesink Discharge      = 0.039614 [L3/T]
Line Sink #30
   x1: 9009.419922   y1: 8452.230469
   x2: 8938.759766   y2: 8398.280273
   Discharge per length = 0.000469
   Head in Center of Linesink    = 573.999878
   Total Linesink Discharge      = 0.041676 [L3/T]
Line Sink #31
   x1: 8870.679688   y1: 8337.900391
   x2: 8936.190430   y2: 8394.419922
   Discharge per length = 0.000540
   Head in Center of Linesink    = 573.999939
   Total Linesink Discharge      = 0.046750 [L3/T]
Line Sink #32
   x1: 8801.959961   y1: 8269.179688
   x2: 8868.759766   y2: 8335.969727
   Discharge per length = 0.000659
   Head in Center of Linesink    = 573.999817
   Total Linesink Discharge      = 0.062255 [L3/T]
Line Sink #33
   x1: 9242.559570   y1: 8657.120117
   x2: 9319.639648   y2: 8726.490234
   Discharge per length = 0.000477
   Head in Center of Linesink    = 573.999817
   Total Linesink Discharge      = 0.049506 [L3/T]
Line Sink #34
   x1: 9322.209961   y1: 8727.780273
   x2: 9385.150391   y2: 8788.150391
   Discharge per length = 0.000562
   Head in Center of Linesink    = 573.999817
   Total Linesink Discharge      = 0.048991 [L3/T]
Line Sink #35
   x1: 9386.440430   y1: 8789.440430
   x2: 9453.240234   y2: 8851.099609
   Discharge per length = 0.000706
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.064136 [L3/T]
Line Sink #36
   x1: 9541.230469   y1: 8919.830078
   x2: 9636.290039   y2: 8921.110352
   Discharge per length = 0.001134
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.107778 [L3/T]
Line Sink #37
   x1: 9641.429688   y1: 8919.830078
   x2: 9753.190430   y2: 8919.830078
   Discharge per length = 0.000632
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.070630 [L3/T]
Line Sink #38
   x1: 9857.879883   y1: 8917.900391
   x2: 9896.419922   y2: 9003.959961
   Discharge per length = 0.000231
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.021783 [L3/T]
Line Sink #39
   x1: 9895.139648   y1: 9006.530273
   x2: 9931.110352   y2: 9093.889648
   Discharge per length = 0.000503
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.047522 [L3/T]
Line Sink #40
   x1: 9961.299805   y1: 9176.740234
   x2: 10012.679688   y2: 9252.530273
   Discharge per length = 0.000755
   Head in Center of Linesink    = 573.999756
   Total Linesink Discharge      = 0.069168 [L3/T]
Line Sink #41
   x1: 10013.959961   y1: 9252.530273
   x2: 10070.490234   y2: 9328.320313
   Discharge per length = 0.000681
   Head in Center of Linesink    = 573.999939
```

```
    Total Linesink Discharge      = 0.064424 [L3/T]
 Line Sink #42
    x1: 10128.290039   y1: 9404.110352
    x2: 10234.269531   y2: 9391.910156
    Discharge per length = 0.000506
    Head in Center of Linesink    = 574.000000
    Total Linesink Discharge      = 0.053987 [L3/T]
 Line Sink #43
    x1: 10356.309570   y1: 9379.070313
    x2: 10459.080078   y2: 9379.070313
    Discharge per length = 0.001626
    Head in Center of Linesink    = 574.000061
    Total Linesink Discharge      = 0.167106 [L3/T]
 Line Sink #44
    x1: 10573.410156   y1: 9384.209961
    x2: 10671.040039   y2: 9381.639648
    Discharge per length = 0.001591
    Head in Center of Linesink    = 574.000000
    Total Linesink Discharge      = 0.155417 [L3/T]
 Line Sink #45
    x1: 10768.030273   y1: 9375.860352
    x2: 10857.950195   y2: 9411.820313
    Discharge per length = 0.000854
    Head in Center of Linesink    = 574.000000
    Total Linesink Discharge      = 0.082696 [L3/T]
 Line Sink #46
    x1: 10859.230469   y1: 9413.110352
    x2: 10954.290039   y2: 9450.360352
    Discharge per length = 0.000868
    Head in Center of Linesink    = 573.999573
    Total Linesink Discharge      = 0.088570 [L3/T]
 Line Sink #47
    x1: 11061.559570   y1: 9494.679688
    x2: 11160.469727   y2: 9530.650391
    Discharge per length = 0.001205
    Head in Center of Linesink    = 573.999207
    Total Linesink Discharge      = 0.126869 [L3/T]
 Line Sink #48
    x1: 11378.849609   y1: 9547.349609
    x2: 11468.769531   y2: 9534.500000
    Discharge per length = 0.000299
    Head in Center of Linesink    = 574.000000
    Total Linesink Discharge      = 0.027129 [L3/T]
 Line Sink #49
    x1: 11471.339844   y1: 9533.219727
    x2: 11549.700195   y2: 9521.650391
    Discharge per length = 0.001361
    Head in Center of Linesink    = 574.000061
    Total Linesink Discharge      = 0.107811 [L3/T]
 Line Sink #50
    x1: 11554.200195   y1: 9519.730469
    x2: 11667.240234   y2: 9492.750000
    Discharge per length = 0.001316
    Head in Center of Linesink    = 574.000000
    Total Linesink Discharge      = 0.152973 [L3/T]
 Line Sink #51
    x1: 11671.089844   y1: 9490.190430
    x2: 11793.129883   y2: 9459.360352
    Discharge per length = 0.001968
    Head in Center of Linesink    = 573.999023
    Total Linesink Discharge      = 0.247664 [L3/T]
 Line Sink #52
    x1: 11913.879883   y1: 9427.250000
    x2: 12014.080078   y2: 9400.269531
    Discharge per length = 0.001620
    Head in Center of Linesink    = 574.000000
    Total Linesink Discharge      = 0.168054 [L3/T]
 Line Sink #53
    x1: 12019.200195   y1: 9398.980469
    x2: 12124.530273   y2: 9370.719727
    Discharge per length = 0.001176
    Head in Center of Linesink    = 573.999878
    Total Linesink Discharge      = 0.128196 [L3/T]
 Line Sink #54
    x1: 12129.690430   y1: 9369.440430
    x2: 12244.019531   y2: 9342.459961
    Discharge per length = 0.000873
    Head in Center of Linesink    = 574.000000
    Total Linesink Discharge      = 0.102558 [L3/T]
 Line Sink #55
    x1: 12383.389648   y1: 9304.559570
    x2: 12605.629883   y2: 9253.179688
    Discharge per length = 0.000559
    Head in Center of Linesink    = 574.000000
    Total Linesink Discharge      = 0.127434 [L3/T]
 Line Sink #56
    x1: 9702.929688   y1: 7988.310059
    x2: 9885.410156   y2: 8158.950195
    Discharge per length = 0.000292
    Head in Center of Linesink    = 574.000000
    Total Linesink Discharge      = 0.073072 [L3/T]
 Line Sink #57
    x1: 10111.750000   y1: 8335.509766
    x2: 10365.330078   y2: 8463.480469
    Discharge per length = 0.000179
```

```
    Head in Center of Linesink     = 573.999939
    Total Linesink Discharge       = 0.050858 [L3/T]
 Line Sink #58
    x1: 11216.139648   y1: 8669.660156
    x2: 11607.179688   y2: 8676.769531
    Discharge per length = 0.000181
    Head in Center of Linesink     = 574.000000
    Total Linesink Discharge       = 0.070704 [L3/T]
 Line Sink #59
    x1: 11891.209961   y1: 8667.299805
    x2: 12412.599609   y2: 8627.009766
    Discharge per length = 0.000358
    Head in Center of Linesink     = 573.999878
    Total Linesink Discharge       = 0.187392 [L3/T]
 Line Sink #60
    x1: 9805.070313    y1: 10169.500000
    x2: 9914.259766    y2: 10116.830078
    Discharge per length = 0.001210
    Head in Center of Linesink     = 578.999939
    Total Linesink Discharge       = 0.146699 [L3/T]
 Line Sink #61
    x1: 10035.009766   y1: 10050.040039
    x2: 10145.490234   y2: 9997.370117
    Discharge per length = 0.000751
    Head in Center of Linesink     = 578.999939
    Total Linesink Discharge       = 0.091968 [L3/T]
 Line Sink #62
    x1: 10148.059570   y1: 9996.089844
    x2: 10254.679688   y2: 9944.700195
    Discharge per length = 0.000021
    Head in Center of Linesink     = 579.000000
    Total Linesink Discharge       = 0.002461 [L3/T]
 Line Sink #63
    x1: 10298.349609   y1: 10057.750000
    x2: 10320.190430   y2: 10156.660156
    Discharge per length = 0.000567
    Head in Center of Linesink     = 579.000000
    Total Linesink Discharge       = 0.057412 [L3/T]
 Line Sink #64
    x1: 10342.030273   y1: 10256.860352
    x2: 10320.190430   y2: 10157.950195
    Discharge per length = 0.002018
    Head in Center of Linesink     = 578.999939
    Total Linesink Discharge       = 0.204447 [L3/T]
 Line Sink #65
    x1: 10257.250000   y1: 9940.849609
    x2: 10336.889648   y2: 9902.309570
    Discharge per length = -0.001226
    Head in Center of Linesink     = 579.000000
    Total Linesink Discharge       = -0.108448 [L3/T]
 Line Sink #66
    x1: 10458.290039   y1: 9836.150391
    x2: 10571.330078   y2: 9783.490234
    Discharge per length = -0.004941
    Head in Center of Linesink     = 579.000000
    Total Linesink Discharge       = -0.616176 [L3/T]
 Line Sink #67
    x1: 10681.169922   y1: 9749.440430
    x2: 10792.929688   y2: 9721.179688
    Discharge per length = -0.002871
    Head in Center of Linesink     = 579.000000
    Total Linesink Discharge       = -0.330957 [L3/T]
 Line Sink #68
    x1: 10906.580078   y1: 9692.280273
    x2: 11014.490234   y2: 9664.019531
    Discharge per length = -0.004285
    Head in Center of Linesink     = 579.000000
    Total Linesink Discharge       = -0.478008 [L3/T]
 Line Sink #69
    x1: 11017.059570   y1: 9661.450195
    x2: 11126.250000   y2: 9635.759766
    Discharge per length = -0.004671
    Head in Center of Linesink     = 579.000122
    Total Linesink Discharge       = -0.523903 [L3/T]
 Line Sink #70
    x1: 11130.099609   y1: 9633.190430
    x2: 11240.580078   y2: 9604.929688
    Discharge per length = -0.005662
    Head in Center of Linesink     = 579.000000
    Total Linesink Discharge       = -0.645721 [L3/T]
 Line Sink #71
    x1: 11502.000000   y1: 9540.059570
    x2: 11527.690430   y2: 9636.400391
    Discharge per length = -0.002145
    Head in Center of Linesink     = 577.000061
    Total Linesink Discharge       = -0.213904 [L3/T]
 Line Sink #72
    x1: 11526.410156   y1: 9640.250000
    x2: 11549.530273   y2: 9735.309570
    Discharge per length = -0.000573
    Head in Center of Linesink     = 577.000000
    Total Linesink Discharge       = -0.056041 [L3/T]
 Line Sink #73
    x1: 11551.839844   y1: 9737.879883
    x2: 11577.530273   y2: 9841.929688
```

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   Discharge per length = 0.000180
   Head in Center of Linesink    = 576.999695
   Total Linesink Discharge      = 0.019261 [L3/T]
Line Sink #74
   x1: 11577.139648   y1: 9846.429688
   x2: 11606.690430   y2: 9962.040039
   Discharge per length = 0.002189
   Head in Center of Linesink    = 576.999756
   Total Linesink Discharge      = 0.261167 [L3/T]
Line Sink #75
   x1: 11586.139648   y1: 10396.240234
   x2: 11710.740234   y2: 10365.410156
   Discharge per length = 0.001056
   Head in Center of Linesink    = 574.999878
   Total Linesink Discharge      = 0.135493 [L3/T]
Line Sink #76
   x1: 10057.320313   y1: 9484.559570
   x2: 10079.889648   y2: 9511.780273
   Discharge per length = 0.002562
   Head in Center of Linesink    = 574.999939
   Total Linesink Discharge      = 0.090600 [L3/T]
Line Sink #77
   x1: 10081.219727   y1: 9513.389648
   x2: 10133.120117   y2: 9582.179688
   Discharge per length = 0.001536
   Head in Center of Linesink    = 574.999756
   Total Linesink Discharge      = 0.132372 [L3/T]
Line Sink #78
   x1: 10133.769531   y1: 9582.299805
   x2: 10188.200195   y2: 9648.139648
   Discharge per length = 0.001743
   Head in Center of Linesink    = 574.999878
   Total Linesink Discharge      = 0.148897 [L3/T]
Line Sink #79
   x1: 10189.080078   y1: 9648.160156
   x2: 10240.870117   y2: 9714.870117
   Discharge per length = 0.002053
   Head in Center of Linesink    = 574.999573
   Total Linesink Discharge      = 0.173400 [L3/T]
Line Sink #80
   x1: 10242.179688   y1: 9717.219727
   x2: 10293.969727   y2: 9782.179688
   Discharge per length = 0.002193
   Head in Center of Linesink    = 574.999695
   Total Linesink Discharge      = 0.182211 [L3/T]
Line Sink #81
   x1: 10293.089844   y1: 9782.019531
   x2: 10332.589844   y2: 9832.059570
   Discharge per length = 0.002281
   Head in Center of Linesink    = 575.000000
   Total Linesink Discharge      = 0.145446 [L3/T]
Line Sink #82
   x1: 10330.839844   y1: 9832.940430
   x2: 10369.459961   y2: 9880.339844
   Discharge per length = 0.005961
   Head in Center of Linesink    = 575.000000
   Total Linesink Discharge      = 0.364458 [L3/T]
Line Sink #83
   x1: 10434.700195   y1: 9874.629883
   x2: 10543.549805   y2: 9821.080078
   Discharge per length = 0.006823
   Head in Center of Linesink    = 574.999329
   Total Linesink Discharge      = 0.827650 [L3/T]
Line Sink #84
   x1: 10543.549805   y1: 9820.349609
   x2: 10648.009766   y2: 9794.019531
   Discharge per length = 0.005711
   Head in Center of Linesink    = 574.999634
   Total Linesink Discharge      = 0.615274 [L3/T]
Line Sink #85
   x1: 10650.790039   y1: 9792.110352
   x2: 10758.759766   y2: 9764.900391
   Discharge per length = 0.005079
   Head in Center of Linesink    = 574.999634
   Total Linesink Discharge      = 0.565486 [L3/T]
Line Sink #86
   x1: 10760.959961   y1: 9764.459961
   x2: 10867.169922   y2: 9738.129883
   Discharge per length = 0.004941
   Head in Center of Linesink    = 574.998657
   Total Linesink Discharge      = 0.540721 [L3/T]
Line Sink #87
   x1: 10869.799805   y1: 9737.250000
   x2: 10987.429688   y2: 9706.530273
   Discharge per length = 0.004875
   Head in Center of Linesink    = 574.999756
   Total Linesink Discharge      = 0.592666 [L3/T]
Line Sink #88
   x1: 10990.070313   y1: 9705.650391
   x2: 11095.400391   y2: 9679.309570
   Discharge per length = 0.004879
   Head in Center of Linesink    = 574.999939
   Total Linesink Discharge      = 0.529680 [L3/T]
Line Sink #89
   x1: 11096.719727   y1: 9677.849609
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      x2: 11191.519531   y2: 9655.900391
      Discharge per length = 0.005101
      Head in Center of Linesink    = 574.999634
      Total Linesink Discharge      = 0.496325 [L3/T]
   Line Sink #90
      x1: 11192.400391   y1: 9656.059570
      x2: 11283.690430   y2: 9634.110352
      Discharge per length = 0.003436
      Head in Center of Linesink    = 574.999756
      Total Linesink Discharge      = 0.322653 [L3/T]
   Line Sink #91
      x1: 11284.129883   y1: 9633.669922
      x2: 11381.559570   y2: 9610.849609
      Discharge per length = 0.001171
      Head in Center of Linesink    = 575.000061
      Total Linesink Discharge      = 0.117175 [L3/T]
   Line Sink #92
      x1: 11383.320313   y1: 9609.089844
      x2: 11479.879883   y2: 9588.030273
      Discharge per length = 0.000818
      Head in Center of Linesink    = 575.000000
      Total Linesink Discharge      = 0.080840 [L3/T]
   Line Sink #93
      x1: 11484.259766   y1: 9591.540039
      x2: 11503.580078   y2: 9674.049805
      Discharge per length = 0.002669
      Head in Center of Linesink    = 574.999878
      Total Linesink Discharge      = 0.226175 [L3/T]
   Line Sink #94
      x1: 11503.139648   y1: 9674.490234
      x2: 11526.839844   y2: 9773.679688
      Discharge per length = 0.003392
      Head in Center of Linesink    = 574.999878
      Total Linesink Discharge      = 0.345897 [L3/T]
   Line Sink #95
      x1: 11527.719727   y1: 9775.429688
      x2: 11552.299805   y2: 9874.629883
      Discharge per length = 0.003480
      Head in Center of Linesink    = 575.000000
      Total Linesink Discharge      = 0.355622 [L3/T]


Number of Ponds = 10

   Pond #1
      Center of Pond --  x: 9863.690430   y: 9771.030273
      Radius = 357.489990
      Infiltration Rate = 0.000002
      Head at Center of Pond        = 580.826355
      Total Pond Flux               = 0.987672 [L3/T]
   Pond #2
      Center of Pond --  x: 10779.519531   y: 10159.440430
      Radius = 330.489990
      Infiltration Rate = 0.000003
      Head at Center of Pond        = 581.766479
      Total Pond Flux               = 0.936762 [L3/T]
   Pond #3
      Center of Pond --  x: 11295.660156   y: 9892.900391
      Radius = 240.630005
      Infiltration Rate = 0.000005
      Head at Center of Pond        = 580.639282
      Total Pond Flux               = 0.993212 [L3/T]
   Pond #4
      Center of Pond --  x: 9461.429688   y: 9236.889648
      Radius = 292.000000
      Infiltration Rate = 0.000002
      Head at Center of Pond        = 580.704590
      Total Pond Flux               = 0.658947 [L3/T]
   Pond #5
      Center of Pond --  x: 10127.879883   y: 10456.309570
      Radius = 196.600006
      Infiltration Rate = 0.000003
      Head at Center of Pond        = 581.789063
      Total Pond Flux               = 0.331497 [L3/T]
   Pond #6
      Center of Pond --  x: 11860.480469   y: 9758.450195
      Radius = 254.770004
      Infiltration Rate = 0.000011
      Head at Center of Pond        = 583.122742
      Total Pond Flux               = 2.222660 [L3/T]
   Pond #7
      Center of Pond --  x: 10427.480469   y: 9572.870117
      Radius = 70.000000
      Infiltration Rate = 0.000055
      Head at Center of Pond        = 582.123901
      Total Pond Flux               = 0.840502 [L3/T]
   Pond #8
      Center of Pond --  x: 10600.910156   y: 9607.610352
      Radius = 70.000000
      Infiltration Rate = 0.000041
      Head at Center of Pond        = 582.063354
      Total Pond Flux               = 0.629607 [L3/T]
   Pond #9
      Center of Pond --  x: 10761.839844   y: 9620.469727
      Radius = 40.000000
```

Infiltration Rate = 0.000041
Head at Center of Pond = 580.373901
Total Pond Flux = 0.206088 [L3/T]

Pond #10
Center of Pond -- x: 11421.280273 y: 9700.990234
Radius = 64.430000
Infiltration Rate = 0.000027
Head at Center of Pond = 578.738953
Total Pond Flux = 0.356032 [L3/T]

Number of Wells = 0

Reference Head = 582.000000 Defined at -- x: 10200.940430 y: 10653.509766

Calibration Targets

Target Head	Computed Head	Residual	Well Name
576.21	577.34	-1.1339	RFI-17
578.01	578.39	-0.3810	RFI-42
580.29	579.85	0.4383	RFI-43
581.32	581.57	-0.2517	RFI-33
581.18	582.17	-0.9922	PS-11
580.86	580.41	0.4527	PS-12
581.22	575.64	5.5765	RFI-32
582.32	576.43	5.8856	PS-13
581.05	580.65	0.3958	R-15
582.55	579.62	2.9290	RFI-36
580.27	578.86	1.4119	RFIPZ23
581.64	578.54	3.0977	RFI-51
579.29	578.78	0.5078	RFIPZ22
580.54	578.13	2.4123	R-11
580.23	578.87	1.3627	RFIPZ16
573.69	576.05	-2.3638	RFIPZ27
576.79	575.88	0.9057	RFIPZ18
575.54	575.03	0.5056	R-13
580.83	575.51	5.3223	R-08
576.77	575.40	1.3694	R-09
573.84	575.02	-1.1754	RFIPZ17
575.66	574.58	1.0762	RFIPZ21
573.61	574.05	-0.4423	RFIPZ19
573.50	574.05	-0.5455	RFIPZ20
582.05	582.01	0.0429	RFI-20
582.63	582.04	0.5860	PS-05
581.60	580.14	1.4571	PS-06
582.09	580.86	1.2273	PS-04
580.73	580.56	0.1722	RFI-31
580.19	579.34	0.8546	RFI-30
581.27	579.10	2.1719	RFIPZ26
580.81	578.26	2.5548	RFIPZ25
579.99	577.76	2.2281	RFI-29
579.92	576.18	3.7390	RFI-18
582.23	576.06	6.1749	PS-08
581.36	579.28	2.0827	RFIPZ24
580.20	576.72	3.4758	RFI-35
581.62	580.32	1.2998	PS-07
581.11	581.12	-0.0130	RFI-27
581.62	580.24	1.3775	PS-09
579.92	577.69	2.2268	RFI-28
573.68	574.04	-0.3566	RFI-34
573.55	574.04	-0.4871	RFI-45
582.42	581.03	1.3859	RFI-37

Number of Targets = 44
Residual Mean = 1.331010
Residual Standard Deviation = 1.901700
Residual Sum of Squares = 237.074219
Absolute Residual Mean = 1.701126
Minimum Residual = -2.363824
Maximum Residual = 6.174940
Observed Range in Head = 9.130000
Resid. Std./Range in Head = 0.208291

Aquifer Properties

.... Steady-State Flow Model ....

Permeability.....= 0.007820 [L/T]
Porosity.....= 0.100000
Elevation of Aquifer Top....= 585.000000
Elevation of Aquifer Bottom.= 572.800000
Uniform Regional Gradient...= 0.000000

Angle of Uniform Gradient...= 0.000000
Recharge.....= 0.000000

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Contour Matrix

Number of nodes in the X-direction = 100
Number of nodes in the Y-direction = 105

Minimum X Coordinate = 9025.477979
Minimum Y Coordinate = 8203.024170

Maximum X Coordinate = 11901.302297
Maximum Y Coordinate = 10901.187749

Minimum Head = 573.755937
Maximum Head = 583.388498

CONTOUR GRID -----

Row 1

575.562398	575.542470	575.518005	575.489579	575.457716
575.422906	575.385619	575.346309	575.305418	575.263366
575.220543	575.177286	575.133863	575.090445	575.047087
575.003710	574.960096	574.915902	574.870691	574.824008
574.775481	574.724987	574.672858	574.620133	574.568845
574.522341	574.485684	574.466242	574.474492	574.523517
574.617183	574.730094	574.835946	574.927743	575.006276
575.073999	575.133704	575.188275	575.240469	575.292503
575.345712	575.400549	575.456836	575.514057	575.571563
575.628691	575.684829	575.739460	575.792183	575.842728
575.890955	575.936839	575.980450	576.021931	576.061467
576.099269	576.135548	576.170503	576.204310	576.237115
576.269028	576.300131	576.330471	576.360076	576.388953
576.417101	576.444512	576.471183	576.497117	576.522325
576.546835	576.570687	576.593938	576.616654	576.638916
576.660813	576.682437	576.703882	576.725241	576.746602
576.768043	576.789632	576.811427	576.833474	576.855807
576.878451	576.901422	576.924734	576.948399	576.972433
576.996859	577.021712	577.047042	577.072919	577.099430
577.126686	577.154815	577.183964	577.214293	577.245973

Row 2

575.415137	575.408164	575.395022	575.376679	575.353930
575.327454	575.297848	575.265655	575.231371	575.195447
575.158287	575.120238	575.081574	575.042487	575.003075
574.963333	574.923161	574.882380	574.840776	574.798162
574.754474	574.709906	574.665064	574.621159	574.580206
574.545226	574.520432	574.511308	574.524203	574.564172
574.629547	574.708760	574.788484	574.861394	574.925315
574.980680	575.029346	575.074218	575.118743	575.165822
575.216877	575.271894	575.330045	575.390224	575.451307
575.512264	575.572204	575.630400	575.686310	575.739586
575.790068	575.837752	575.882762	575.925308	575.965650
576.004073	576.040854	576.076247	576.110469	576.143694
576.176048	576.207613	576.238431	576.268515	576.297856
576.326432	576.354216	576.381189	576.407338	576.432668
576.457202	576.480979	576.504062	576.526527	576.548468
576.569988	576.591195	576.612202	576.633116	576.654038
576.675058	576.696252	576.717682	576.739392	576.761414
576.783764	576.806450	576.829472	576.852830	576.876526
576.900570	576.924989	576.949828	576.975153	577.001059
577.027666	577.055119	577.083590	577.113265	577.144347

Row 3

575.265298	575.271688	575.270171	575.262129	575.248639
575.230581	575.208695	575.183621	575.155921	575.126093
575.094570	575.061722	575.027848	574.993173	574.957844
574.921931	574.885436	574.848323	574.810547	574.772121
574.733193	574.694145	574.655718	574.619134	574.586220
574.559497	574.542182	574.537981	574.550397	574.581163
574.628122	574.684837	574.743592	574.798657	574.847036
574.887904	574.922338	574.953648	574.987147	575.027548
575.076337	575.132381	575.193671	575.258214	575.324265
575.390346	575.455226	575.517928	575.577750	575.634267
575.687318	575.736959	575.783403	575.826966	575.868020
575.906948	575.944116	575.979851	576.014421	576.048034
576.080828	576.112886	576.144237	576.174871	576.204753
576.233833	576.262060	576.289388	576.315790	576.341257
576.365806	576.389479	576.412343	576.434489	576.456026
576.477076	576.497771	576.518243	576.538620	576.559021
576.579548	576.600289	576.621309	576.642652	576.664343
576.686391	576.708789	576.731520	576.754566	576.777909
576.801545	576.825484	576.849762	576.874443	576.899625
576.925440	576.952053	576.979663	577.008491	577.038777

Row 4

575.113927	575.133857	575.144114	575.146481	575.142322
575.132717	575.118554	575.100579	575.079429	575.055658
575.029739	575.002077	574.973007	574.942793	574.911633
574.879668	574.846992	574.813678	574.779813	574.745551
574.711174	574.677165	574.644297	574.613707	574.586955
574.566027	574.553245	574.550977	574.561052	574.583850
574.617455	574.657726	574.699588	574.738529	574.771289
574.795925	574.812197	574.823626	574.840198	574.871817
574.919184	574.978230	575.044885	575.115968	575.189013
575.262036	575.333415	575.401878	575.466535	575.526903
575.582864	575.634590	575.682446	575.726909	575.768502
575.807749	575.845133	575.881071	575.915898	575.949856
575.983098	576.015697	576.047660	576.078945	576.109479
576.139172	576.167937	576.195699	576.222406	576.248034
576.272592	576.296125	576.318710	576.340452	576.361483
576.381950	576.402013	576.421832	576.441561	576.461341
576.481293	576.501515	576.522078	576.543026	576.564377
576.586124	576.608245	576.630699	576.653443	576.676435
576.699645	576.723065	576.746714	576.770650	576.794974
576.819829	576.845406	576.871935	576.899680	576.928928

Row 5

574.961956	574.995426	575.017483	575.030283	575.035459
575.034295	575.027825	575.016903	575.002252	574.984483
574.964123	574.941618	574.917341	574.891603	574.864654
574.836696	574.807899	574.778424	574.748455	574.718239
574.688135	574.658667	574.630578	574.604870	574.582817
574.565926	574.555807	574.553913	574.561124	574.577237
574.600603	574.628224	574.656349	574.681154	574.699082
574.706735	574.700732	574.680459	574.666776	574.688499
574.738117	574.804232	574.879936	574.960827	575.043768
575.126282	575.206307	575.282206	575.352875	575.417805
575.477010	575.530882	575.580028	575.625160	575.667014
575.706296	575.743643	575.779590	575.814549	575.848803
575.882511	575.915729	575.948423	575.980504	576.011844
576.042301	576.071739	576.100042	576.127127	576.152951
576.177515	576.200867	576.223095	576.244328	576.264725
576.284467	576.303749	576.322768	576.341712	576.360750
576.380028	576.399656	576.419714	576.440243	576.461252
576.482718	576.504591	576.526804	576.549280	576.571943
576.594728	576.617600	576.640555	576.663639	576.686952
576.710652	576.734957	576.760137	576.786508	576.814419

Row 6

574.810078	574.857019	574.890848	574.914046	574.928515
574.935739	574.936899	574.932963	574.924736	574.912900
574.898035	574.880635	574.861119	574.839842	574.817101
574.793156	574.768238	574.742576	574.716419	574.690076
574.663941	574.638538	574.614549	574.592824	574.574376
574.560314	574.551722	574.549452	574.553841	574.564423
574.579753	574.597457	574.614497	574.627437	574.632439
574.624677	574.596318	574.527421	574.435811	574.460314
574.522511	574.603139	574.693697	574.789211	574.886204
574.981818	575.073497	575.159107	575.237274	575.307553

575.370270	575.426211	575.476364	575.521770	575.563448
575.602345	575.639296	575.674983	575.709912	575.744408
575.778625	575.812580	575.846181	575.879265	575.911629
575.943059	575.973353	576.002343	576.029906	576.055976
576.080545	576.103664	576.125441	576.146030	576.165630
576.184465	576.202778	576.220812	576.238800	576.256950
576.275434	576.294383	576.313885	576.333978	576.354658
576.375880	576.397564	576.419603	576.441876	576.464261
576.486649	576.508961	576.531164	576.553283	576.575414
576.597729	576.620477	576.643978	576.668615	576.694812

Row 7

574.658586	574.719099	574.764699	574.798233	574.821921
574.837455	574.846161	574.849118	574.847222	574.841227
574.831773	574.819407	574.804592	574.787728	574.769159
574.749191	574.728105	574.706178	574.683708	574.661034
574.638563	574.616796	574.596336	574.577892	574.562251
574.550216	574.542495	574.539551	574.541412	574.547499
574.556521	574.566498	574.574851	574.578469	574.573544
574.554863	574.513757	574.432772	574.298805	574.162300
574.256550	574.364056	574.478547	574.595900	574.713025
574.827008	574.934719	575.033217	575.120733	575.197135
575.263440	575.321133	575.371762	575.416811	575.457659
575.495562	575.531608	575.566671	575.601367	575.636054
575.670864	575.705742	575.740506	575.774887	575.808579
575.841269	575.872669	575.902543	575.930720	575.957104
575.981678	576.004500	576.025701	576.045475	576.064068
576.081763	576.098865	576.115680	576.132498	576.149575
576.167121	576.185292	576.204183	576.223831	576.244216
576.265262	576.286850	576.308823	576.331004	576.353206
576.375260	576.397030	576.418437	576.439475	576.460231
576.480888	576.501732	576.523146	576.545595	576.569604

Row 8

574.507292	574.582054	574.639452	574.683240	574.716069
574.739827	574.755979	574.765717	574.770035	574.769768
574.765621	574.758193	574.747996	574.735473	574.721007
574.704945	574.687608	574.669308	574.650371	574.631153
574.612056	574.593545	574.576147	574.560445	574.547045
574.536520	574.529320	574.525662	574.525402	574.527926
574.532088	574.536198	574.538062	574.534969	574.523559
574.499450	574.456689	574.388593	574.295851	574.193411
574.094706	574.066668	574.221225	574.372262	574.518975
574.659451	574.790003	574.906036	575.005101	575.088129
575.157677	575.216403	575.266628	575.310368	575.349434
575.385471	575.419904	575.453852	575.488064	575.522915
575.558471	575.594560	575.630861	575.666958	575.702400
575.736743	575.769588	575.800610	575.829580	575.856366
575.880944	575.903386	575.923853	575.942589	575.959904
575.976157	575.991735	576.007028	576.022401	576.038175
576.054606	576.071880	576.090105	576.109311	576.129458
576.150434	576.172069	576.194144	576.216403	576.238579
576.260418	576.281705	576.302295	576.322139	576.341301
576.359976	576.378491	576.397307	576.416994	576.438209

Row 9

574.356587	574.446515	574.515405	574.569359	574.611302
574.643221	574.666711	574.683099	574.693492	574.698816
574.699847	574.697241	574.691557	574.683276	574.672820
574.660568	574.646870	574.632065	574.616495	574.600520
574.584529	574.568947	574.554233	574.540865	574.529310
574.519975	574.513139	574.508867	574.506932	574.506736
574.507273	574.507119	574.504442	574.497014	574.482177
574.456828	574.417688	574.362697	574.294021	574.218986
574.145742	574.079995	574.025412	574.101419	574.294364
574.474885	574.640061	574.780947	574.893650	574.982874
575.054518	575.112984	575.161468	575.202532	575.238460
575.271386	575.303209	575.335390	575.368828	575.403872
575.440445	575.478189	575.516572	575.554975	575.592753
575.629286	575.664031	575.696552	575.726547	575.753851
575.778432	575.800382	575.819907	575.837313	575.852994
575.867409	575.881054	575.894431	575.908006	575.922184
575.937281	575.953518	575.971016	575.989800	576.009800
576.030864	576.052757	576.075177	576.097772	576.120164
576.141983	576.162909	576.182702	576.201247	576.218573
576.234879	576.250539	576.266108	576.282295	576.299930

Row 10

574.213630	574.312965	574.392402	574.456727	574.507935
574.548000	574.578715	574.601595	574.617896	574.628650
574.634709	574.636787	574.635488	574.631331	574.624770
574.616211	574.606026	574.594571	574.582196	574.569258
574.556128	574.543196	574.530860	574.519518	574.509534
574.501200	574.494686	574.489974	574.486806	574.484637
574.482604	574.479533	574.473951	574.464125	574.448125
574.423979	574.390097	574.346180	574.294330	574.239108
574.186022	574.140072	574.105505	574.086222	574.086165

574.263379	574.487430	574.665997	574.791748	574.884413
574.955771	575.011987	575.056888	575.093407	575.124281
575.152300	575.180090	575.209638	575.241999	575.277387
575.315450	575.355525	575.396782	575.438326	575.479250
575.518707	575.555962	575.590443	575.621764	575.649727
575.674303	575.695615	575.713924	575.729618	575.743195
575.755246	575.766416	575.777358	575.788676	575.800883
575.814371	575.829403	575.846113	575.864513	575.884505
575.905880	575.928327	575.951445	575.974751	575.997722
576.019832	576.040609	576.059686	576.076849	576.092072
576.105546	576.117695	576.129186	576.140909	576.153929

Row 11

574.076835	574.177192	574.269394	574.345443	574.406343
574.454565	574.492356	574.521530	574.543537	574.559532
574.570447	574.577051	574.579992	574.579825	574.577028
574.572030	574.565220	574.556962	574.547609	574.537511
574.527023	574.516499	574.506294	574.496742	574.488138
574.480700	574.474531	574.469578	574.465590	574.462092
574.458371	574.453483	574.446290	574.435512	574.419835
574.398108	574.369691	574.334973	574.295808	574.255478
574.218069	574.187826	574.168966	574.166010	574.184698
574.234693	574.347230	574.580096	574.706085	574.795746
574.863178	574.914591	574.953637	574.983183	575.006288
575.026696	575.048350	575.074133	575.105190	575.141328
575.181682	575.225114	575.270391	575.316252	575.361452
575.404835	575.445417	575.482459	575.515486	575.544278
575.568826	575.589304	575.606040	575.619517	575.630366
575.639350	575.647317	575.655131	575.663586	575.673339
575.684874	575.698499	575.714356	575.732442	575.752618
575.774615	575.798033	575.822344	575.846904	575.870990
575.893861	575.914836	575.933369	575.949109	575.961944
575.972035	575.979849	575.986183	575.992161	575.999174

Row 12

574.474641	574.032356	574.145620	574.236172	574.307106
574.363389	574.408018	574.443213	574.470683	574.491706
574.507284	574.518239	574.525262	574.528935	574.529761
574.528184	574.524602	574.519385	574.512885	574.505442
574.497393	574.489068	574.480787	574.472842	574.465481
574.458880	574.453110	574.448113	574.443669	574.439385
574.434689	574.428852	574.421023	574.410299	574.395840
574.377039	574.353774	574.326694	574.297418	574.268493
574.243118	574.224844	574.217474	574.225312	574.253882
574.311672	574.411247	574.535782	574.639394	574.718347
574.777977	574.821973	574.852749	574.872371	574.883786
574.892207	574.904431	574.925058	574.954899	574.992705
575.036680	575.085016	575.135965	575.187809	575.238862
575.287550	575.332556	575.372932	575.408130	575.437942
575.462418	575.481801	575.496499	575.507098	575.514385
575.519346	575.523115	575.526861	575.531646	575.538318
575.547469	575.559445	575.574387	575.592264	575.612890
575.635931	575.660890	575.687092	575.713681	575.739666
575.764003	575.785718	575.804017	575.818363	575.828516
575.834572	575.837016	575.836778	575.835277	575.834364

Row 13

574.921126	574.461776	574.022909	574.130987	574.210902
574.275050	574.326081	574.366909	574.399571	574.425393
574.445425	574.460543	574.471476	574.478833	574.483132
574.484829	574.484328	574.481998	574.478185	574.473221
574.467427	574.461113	574.454577	574.448085	574.441861
574.436061	574.430750	574.425885	574.421292	574.416662
574.411556	574.405428	574.397666	574.387662	574.374914
574.359160	574.340551	574.319813	574.298345	574.278193
574.261904	574.252370	574.252737	574.266463	574.297414
574.349522	574.423458	574.508387	574.587058	574.651490
574.700720	574.735356	574.755860	574.762458	574.756457
574.744802	574.741998	574.756238	574.785914	574.827264
574.877036	574.932581	574.991576	575.051778	575.110924
575.166843	575.217741	575.262429	575.300340	575.331368
575.355686	575.373636	575.385705	575.392569	575.395174
575.394792	575.392972	575.391347	575.391373	575.394150
575.400380	575.410426	575.424398	575.442218	575.463650
575.488299	575.515572	575.544632	575.574362	575.603396
575.630250	575.653530	575.672104	575.685193	575.692386
575.693658	575.689436	575.680750	575.669366	575.657796

Row 14

575.295270	574.923768	574.459432	574.027264	574.118120
574.190460	574.246814	574.292762	574.330399	574.360796
574.385053	574.404132	574.418800	574.429680	574.437301
574.442125	574.444557	574.444963	574.443681	574.441028
574.437313	574.432837	574.427881	574.422705	574.417524
574.412493	574.407691	574.403102	574.398606	574.393976
574.388890	574.382956	574.375750	574.366882	574.356081
574.343293	574.328801	574.313319	574.298038	574.284610

574.275053	574.271636	574.276772	574.292894	574.322193
574.365809	574.421923	574.483983	574.543216	574.593387
574.631523	574.656110	574.665588	574.657299	574.626707
574.575996	574.548241	574.557419	574.590363	574.638832
574.697870	574.764037	574.834510	574.906512	574.977018
575.042922	575.101686	575.151874	575.193074	575.225470
575.249478	575.265576	575.274296	575.276337	575.272756
575.265169	575.255753	575.246899	575.240677	575.238506
575.241164	575.248964	575.261931	575.279910	575.302613
575.329602	575.360223	575.393490	575.427968	575.461757
575.492698	575.518770	575.538397	575.550526	575.554543
575.550209	575.537748	575.518120	575.493432	575.467155

Row 15

575.624570	575.307403	574.935154	574.470843	574.031047
574.111994	574.169617	574.220716	574.263404	574.298110
574.326318	574.349155	574.367386	574.381628	574.392420
574.400228	574.405453	574.408453	574.409549	574.409047
574.407245	574.404436	574.400902	574.396906	574.392670
574.388368	574.384101	574.379892	574.375678	574.371310
574.366565	574.361172	574.354851	574.347364	574.338588
574.328588	574.317694	574.306558	574.296178	574.287874
574.283214	574.283917	574.291713	574.308158	574.334298
574.370056	574.413399	574.460043	574.504626	574.542502
574.570368	574.585642	574.585346	574.564377	574.510489
574.362164	574.296051	574.311789	574.355979	574.417912
574.491744	574.573663	574.660655	574.749591	574.836449
574.916448	574.985722	575.042722	575.087685	575.121472
575.144925	575.158689	575.163253	575.159161	575.147390
575.129887	575.109842	575.091018	575.076490	575.068031
575.066355	575.071580	575.083550	575.101991	575.126561
575.156826	575.192153	575.231495	575.273081	575.314222
575.351633	575.382296	575.404094	575.415759	575.416507
575.405778	575.383280	575.349454	575.306444	575.259105

Row 16

575.922987	575.644876	575.329673	574.960894	574.506968
574.029634	574.090956	574.151070	574.199130	574.237489
574.269298	574.295729	574.317372	574.334823	574.348638
574.359292	574.367182	574.372644	574.375979	574.377475
574.377418	574.376103	574.373824	574.370860	574.367459
574.363822	574.360087	574.356321	574.352519	574.348601
574.344427	574.339819	574.334597	574.328626	574.321868
574.314442	574.306675	574.299135	574.292637	574.288219
574.287074	574.290453	574.299538	574.315242	574.337944
574.367108	574.400952	574.436456	574.469945	574.497869
574.517152	574.524942	574.517885	574.490859	574.434726
574.338785	574.224175	574.121749	574.060723	574.147732
574.245920	574.351872	574.463129	574.576974	574.688412
574.789115	574.872302	574.937189	574.985987	575.020910
575.043446	575.054392	575.054036	575.042411	575.019875
574.988359	574.952761	574.919724	574.894058	574.877678
574.870838	574.873192	574.884260	574.903589	574.930787
574.965498	575.007273	575.055251	575.107492	575.160134
575.207742	575.245560	575.270980	575.282870	575.280472
575.262809	575.228553	575.176542	575.107670	575.028446

Row 17

576.198639	575.950786	575.675610	575.363539	574.997949
574.538143	574.011151	574.087185	574.138719	574.178650
574.213937	574.243981	574.268904	574.289396	574.306089
574.319467	574.329910	574.337725	574.343176	574.346523
574.348040	574.348032	574.346820	574.344718	574.342014
574.338949	574.335705	574.332401	574.329088	574.325747
574.322307	574.318655	574.314675	574.310289	574.305499
574.300435	574.295390	574.290837	574.287426	574.285957
574.287313	574.292380	574.301923	574.316431	574.335920
574.359721	574.386346	574.413552	574.438644	574.458853
574.471537	574.474095	574.463642	574.436643	574.389261
574.321210	574.242430	574.166828	574.102162	574.051790
574.017835	574.080046	574.228872	574.380570	574.531797
574.665350	574.765889	574.838399	574.890185	574.925544
574.946677	574.954447	574.948721	574.928509	574.892333
574.840339	574.780193	574.726049	574.685540	574.659428
574.646611	574.645894	574.656313	574.677170	574.708018
574.748644	574.799018	574.859019	574.927356	574.998713
575.062674	575.111040	575.141616	575.154470	575.149354
575.124862	575.078008	575.003989	574.897994	574.765951

Row 18

576.456761	576.233622	575.989103	575.716725	575.406183
575.039048	574.579822	574.041463	574.080487	574.119707
574.160259	574.194178	574.222134	574.245460	574.264891
574.280890	574.293807	574.303900	574.311370	574.316428
574.319335	574.320420	574.320053	574.318607	574.316424
574.313798	574.310964	574.308096	574.305300	574.302617
574.300025	574.297453	574.294817	574.292056	574.289177

574.286288	574.283632	574.281584	574.280651	574.281433
574.284573	574.290676	574.300216	574.313410	574.330093
574.349596	574.370692	574.391659	574.410451	574.424905
574.432876	574.432257	574.420949	574.396978	574.359255
574.309427	574.253300	574.198627	574.151677	574.116662
574.096773	574.095130	574.115652	574.164609	574.362305
574.558548	574.673722	574.750032	574.802541	574.837120
574.856303	574.860825	574.849987	574.821419	574.770127
574.687778	574.582515	574.496320	574.437047	574.399458
574.379884	574.376021	574.386344	574.409843	574.445943
574.494545	574.556174	574.632217	574.724644	574.829340
574.920688	574.982927	575.019418	575.033679	575.026592
574.996504	574.938579	574.842416	574.686140	574.450236

Row 19

576.700983	576.498891	576.279416	576.037841	575.767319
575.457418	575.091441	574.638622	573.990975	574.059439
574.109766	574.146885	574.177126	574.203072	574.225134
574.243678	574.259040	574.271397	574.280834	574.287474
574.291561	574.293477	574.293679	574.292627	574.290742
574.288379	574.285827	574.283320	574.281027	574.279042
574.277384	574.275998	574.274797	574.273703	574.272692
574.271832	574.271302	574.271389	574.272474	574.275003
574.279432	574.286163	574.295471	574.307413	574.321740
574.337838	574.354704	574.370993	574.385133	574.395449
574.400279	574.398054	574.387399	574.367380	574.338056
574.301254	574.260860	574.221889	574.189106	574.166466
574.157377	574.165294	574.194612	574.252674	574.355885
574.497823	574.602607	574.674835	574.724731	574.757028
574.773785	574.775383	574.760666	574.726334	574.664617
574.551727	574.326100	574.201445	574.121157	574.069826
574.042036	574.034876	574.046384	574.075091	574.119974
574.180631	574.257709	574.353925	574.477463	574.655689
574.793082	574.867450	574.908298	574.923682	574.915599
574.882456	574.818589	574.710503	574.520010	574.097380

Row 20

576.933923	576.750359	576.552315	576.336162	576.096932
575.827558	575.517291	575.146611	574.670662	574.008912
574.067686	574.102079	574.133489	574.162258	574.186880
574.207903	574.225760	574.240480	574.251916	574.260023
574.265031	574.267432	574.267841	574.266856	574.264989
574.262659	574.260211	574.257939	574.256086	574.254811
574.254163	574.254077	574.254422	574.255061	574.255911
574.256981	574.258384	574.260327	574.263095	574.267012
574.272397	574.279513	574.288506	574.299340	574.311747
574.325183	574.338835	574.351651	574.362421	574.369872
574.372765	574.369998	574.360745	574.344674	574.322280
574.295207	574.266276	574.239035	574.217124	574.203899
574.202444	574.215819	574.247426	574.301221	574.379366
574.470334	574.550950	574.612885	574.657269	574.685997
574.700068	574.699421	574.682775	574.647110	574.586430
574.490616	574.366176	574.258103	574.177777	574.121180
574.085312	574.068362	574.069128	574.086760	574.120720
574.170936	574.238172	574.324811	574.436557	574.577790
574.697308	574.770542	574.811514	574.827001	574.818933
574.786025	574.723585	574.621702	574.462465	574.242253

Row 21

577.157511	576.990688	576.811624	576.617393	576.404111
576.166435	575.896567	575.582020	575.201287	574.713560
574.051701	574.052392	574.090635	574.123383	574.150136
574.173513	574.194072	574.211478	574.225105	574.234577
574.240136	574.242530	574.242660	574.241326	574.239140
574.236566	574.233985	574.231755	574.230224	574.229646
574.230100	574.231472	574.233527	574.236018	574.238770
574.241721	574.244922	574.248520	574.252727	574.257780
574.263906	574.271273	574.279950	574.289857	574.300733
574.312119	574.323358	574.333632	574.342019	574.347567
574.349385	574.346738	574.339174	574.326690	574.309920
574.290265	574.269870	574.251373	574.237567	574.231153
574.234640	574.250344	574.280302	574.325687	574.384806
574.450262	574.511526	574.561954	574.599513	574.624001
574.635418	574.633353	574.616719	574.583577	574.531315
574.458918	574.374149	574.293699	574.228044	574.179590
574.148126	574.132986	574.133509	574.149128	574.179427
574.224226	574.283695	574.358317	574.447767	574.545195
574.631490	574.693296	574.730330	574.744818	574.737645
574.707922	574.652935	574.568449	574.451741	574.313082

Row 22

577.373180	577.221802	577.060004	576.885345	576.694636
576.483602	576.246274	575.973911	575.653076	575.260969
574.745652	573.988503	574.053344	574.087588	574.114462
574.140178	574.163964	574.184838	574.201168	574.211884
574.217380	574.219010	574.218198	574.216004	574.213120
574.209993	574.206979	574.204504	574.203088	574.203167

574.204864	574.207947	574.211976	574.216518	574.221271
574.226101	574.231015	574.236123	574.241591	574.247604
574.254331	574.261884	574.270288	574.279450	574.289137
574.298968	574.308422	574.316870	574.323616	574.327966
574.329296	574.327142	574.321298	574.311931	574.299682
574.285729	574.271739	574.259720	574.251814	574.250111
574.256511	574.272589	574.299356	574.336699	574.382458
574.431896	574.479079	574.519351	574.550175	574.570412
574.579453	574.576719	574.561449	574.532754	574.490164
574.435180	574.373306	574.313029	574.261307	574.221660
574.195351	574.182635	574.183365	574.197228	574.223855
574.262851	574.313727	574.375516	574.445648	574.517938
574.582767	574.632383	574.663855	574.676806	574.671191
574.646509	574.601836	574.536705	574.453610	574.361984

Row 23

577.581994	577.445103	577.299351	577.142653	576.972318
576.784807	576.575339	576.337251	576.060826	575.730619
575.318228	574.763950	574.039514	574.052441	574.078041
574.107233	574.135091	574.161242	574.181475	574.193135
574.197376	574.197021	574.194380	574.190748	574.186792
574.182821	574.179018	574.175840	574.174157	574.174811
574.178013	574.183249	574.189684	574.196583	574.203497
574.210239	574.216810	574.223314	574.229909	574.236755
574.243991	574.251701	574.259894	574.268480	574.277264
574.285938	574.294096	574.301260	574.306914	574.310562
574.311785	574.310308	574.306080	574.299346	574.290707
574.281138	574.271950	574.264686	574.260978	574.262399
574.270315	574.285728	574.309032	574.339667	574.375756
574.414105	574.450934	574.482939	574.507838	574.524251
574.531332	574.528484	574.515248	574.491417	574.457473
574.415324	574.368841	574.323167	574.282989	574.251454
574.230257	574.220143	574.221308	574.233625	574.256745
574.290100	574.332786	574.383223	574.438567	574.494186
574.544285	574.583867	574.610021	574.621512	574.617879
574.598956	574.564959	574.517184	574.459332	574.398725

Row 24

577.784732	577.661607	577.531016	577.391157	577.239722
577.073714	576.889178	576.680760	576.440959	576.158651
575.816115	575.382305	574.786038	573.985576	574.041538
574.073955	574.105750	574.142005	574.168828	574.180286
574.180691	574.176393	574.170874	574.165238	574.159937
574.154996	574.150028	574.145342	574.142609	574.143679
574.148920	574.157124	574.166661	574.176354	574.185628
574.194323	574.202494	574.210294	574.217899	574.225476
574.233155	574.241012	574.249056	574.257214	574.265328
574.273159	574.280396	574.286680	574.291639	574.294927
574.296273	574.295534	574.292753	574.288201	574.282416
574.276203	574.270596	574.266781	574.265992	574.269388
574.277922	574.292193	574.312273	574.337505	574.366387
574.396665	574.425745	574.451222	574.471216	574.484423
574.489987	574.487379	574.476358	574.457074	574.430323
574.397856	574.362483	574.327654	574.296665	574.272060
574.255488	574.247855	574.249532	574.260503	574.280438
574.308690	574.344200	574.385295	574.429455	574.473255
574.512818	574.544695	574.566502	574.576935	574.575485
574.562245	574.538002	574.504655	574.465793	574.426982

Row 25

577.981943	577.872028	577.755942	577.632124	577.498577
577.352735	577.191253	577.009710	576.802108	576.560024
576.271036	575.915288	575.455772	574.810390	574.027083
574.035651	574.068623	574.131029	574.169578	574.176337
574.167113	574.156119	574.147006	574.138900	574.132145
574.126688	574.120376	574.112561	574.106967	574.108168
574.116696	574.129423	574.143138	574.156157	574.167972
574.178614	574.188298	574.197275	574.205774	574.213986
574.222050	574.230048	574.237997	574.245847	574.253478
574.260708	574.267306	574.273009	574.277553	574.280705
574.282300	574.282286	574.280755	574.277980	574.274430
574.270765	574.267800	574.266449	574.267636	574.272204
574.280801	574.293768	574.311017	574.331930	574.355324
574.379556	574.402761	574.423148	574.439223	574.449865
574.454316	574.452145	574.443252	574.427937	574.407031
574.382009	574.354970	574.328374	574.304627	574.285732
574.273126	574.267699	574.269877	574.279697	574.296858
574.320713	574.350220	574.383848	574.419514	574.454651
574.486513	574.512625	574.531146	574.540982	574.541735
574.533671	574.517794	574.496058	574.471576	574.448595

Row 26

578.173989	578.076839	577.974757	577.866393	577.750025
577.623438	577.483781	577.327337	577.149200	576.942743
576.698717	576.403502	576.035449	575.556404	574.877092
573.906707	574.005576	574.143459	574.198126	574.184532
574.153095	574.133461	574.122201	574.110842	574.102259

574.098649	574.091946	574.077214	574.064089	574.065100
574.080200	574.100435	574.119789	574.136597	574.150977
574.163439	574.174473	574.184469	574.193729	574.202476
574.210867	574.218994	574.226890	574.234525	574.241816
574.248629	574.254797	574.260131	574.264452	574.267607
574.269509	574.270160	574.269680	574.268327	574.266505
574.264750	574.263708	574.264080	574.266557	574.271745
574.280080	574.291739	574.306567	574.324021	574.343175
574.362798	574.381509	574.397955	574.410964	574.419618
574.423292	574.421653	574.414682	574.402721	574.386528
574.367310	574.346665	574.326419	574.308374	574.294098
574.284789	574.281242	574.283865	574.292720	574.307537
574.327725	574.352343	574.380080	574.409260	574.437939
574.464109	574.485959	574.502109	574.511727	574.514566
574.510992	574.502036	574.489487	574.475932	574.464642

Row 27

578.361075	578.276317	578.187833	578.094476	577.994764
577.886798	577.768132	577.635616	577.485164	577.311422
577.107246	576.862792	576.563769	576.187231	575.687426
574.938286	573.941694	574.225253	574.283457	574.202461
574.123829	574.103430	574.099003	574.079672	574.065623
574.072987	574.071737	574.039775	574.005801	574.007468
574.038860	574.071796	574.098064	574.118596	574.135201
574.149154	574.161268	574.172074	574.181937	574.191108
574.199760	574.207997	574.215864	574.223353	574.230410
574.236942	574.242831	574.247946	574.252169	574.255408
574.257626	574.258859	574.259240	574.259003	574.258492
574.258146	574.258473	574.260014	574.263285	574.268720
574.276609	574.287032	574.299811	574.314487	574.330329
574.346400	574.361655	574.375063	574.385707	574.392859
574.396020	574.394942	574.389653	574.380482	574.368084
574.353433	574.337766	574.322468	574.308920	574.298348
574.291729	574.289738	574.292739	574.300796	574.313679
574.330871	574.351569	574.374686	574.398897	574.422717
574.444653	574.463372	574.477857	574.487515	574.492235
574.492428	574.489062	574.483691	574.478431	574.475827

Row 28

578.543276	578.470571	578.395337	578.316615	578.233156
578.143341	578.045082	577.935689	577.811716	577.668736
577.501054	577.301243	577.059342	576.761135	576.384343
575.892539	575.223014	574.460148	574.473430	574.199111
574.027896	574.066335	574.093601	574.042726	574.001984
574.055628	574.082798	574.003068	573.906339	573.918763
573.997609	574.048143	574.080297	574.103240	574.121185
574.136068	574.148892	574.160252	574.170537	574.180011
574.188850	574.197167	574.205016	574.212405	574.219305
574.225653	574.231370	574.236368	574.240572	574.243932
574.246445	574.248169	574.249233	574.249851	574.250312
574.250975	574.252245	574.254539	574.258246	574.263679
574.271027	574.280315	574.291369	574.303803	574.317039
574.330353	574.342943	574.354016	574.362857	574.368897
574.371745	574.371222	574.367380	574.360514	574.351174
574.340141	574.328385	574.316975	574.306978	574.299362
574.294912	574.294187	574.297498	574.304904	574.316213
574.330993	574.348576	574.368085	574.388477	574.408618
574.427390	574.443810	574.457142	574.466985	574.473329
574.476596	574.477655	574.477825	574.478823	574.482650

Row 29

578.720552	578.659576	578.597260	578.532838	578.465286
578.393249	578.314959	578.228120	578.129785	578.016207
577.882678	577.723340	577.530957	577.296627	577.009637
576.658464	576.233815	575.741377	575.256368	574.862749
574.623312	574.627486	574.629989	574.527781	574.427935
574.421843	574.379906	574.225471	574.013896	573.830603
573.980335	574.037040	574.068715	574.091250	574.109233
574.124355	574.137471	574.149110	574.159629	574.169277
574.178226	574.186585	574.194414	574.201733	574.208528
574.214761	574.220379	574.225325	574.229556	574.233048
574.235819	574.237937	574.239526	574.240774	574.241928
574.243284	574.245165	574.247900	574.251782	574.257043
574.263808	574.272071	574.281670	574.292288	574.303463
574.314628	574.325161	574.334447	574.341929	574.347162
574.349847	574.349855	574.347247	574.342280	574.335407
574.327258	574.318594	574.310252	574.303067	574.297802
574.295087	574.295380	574.298939	574.305817	574.315860
574.328711	574.343833	574.360526	574.377976	574.395318
574.411711	574.426434	574.438964	574.449044	574.456735
574.462444	574.466935	574.471311	574.476968	574.485494

Row 30

578.892774	578.843185	578.793449	578.742992	578.691013
578.636422	578.577748	578.513042	578.439760	578.354640
578.253607	578.131723	577.983264	577.801398	577.579586
577.316518	577.015781	576.692099	576.373713	576.095155

575.879983	575.729293	575.598610	575.453654	575.304871
575.161426	574.996886	574.780315	574.497152	574.093918
574.012029	574.041061	574.062968	574.082314	574.099230
574.113999	574.127031	574.138690	574.149263	574.158964
574.167943	574.176304	574.184104	574.191369	574.198095
574.204259	574.209827	574.214764	574.219043	574.222661
574.225644	574.228062	574.230033	574.231720	574.233337
574.235129	574.237361	574.240294	574.244162	574.249136
574.255303	574.262644	574.271016	574.280156	574.289695
574.299182	574.308131	574.316057	574.322527	574.327192
574.329823	574.330328	574.328770	574.325367	574.320492
574.314648	574.308441	574.302529	574.297571	574.294172
574.292839	574.293941	574.297694	574.304144	574.313170
574.324488	574.337669	574.352162	574.367337	574.382534
574.397124	574.410579	574.422533	574.432836	574.441592
574.449181	574.456264	574.463761	574.472807	574.484673

Row 31

579.059731	579.021158	578.983628	578.946766	578.910006
578.872522	578.833143	578.790244	578.741622	578.684364
578.614746	578.524737	578.405743	578.256872	578.078056
577.870967	577.640606	577.396817	577.153007	576.920803
576.703958	576.505435	576.317733	576.128306	575.933214
575.728386	575.500800	575.231738	574.898151	574.457447
574.065179	574.047599	574.058827	574.075116	574.090731
574.104834	574.117510	574.128980	574.139451	574.149093
574.158032	574.166354	574.174111	574.181329	574.188008
574.194136	574.199688	574.204641	574.208979	574.212705
574.215851	574.218482	574.220706	574.222669	574.224554
574.226571	574.228943	574.231887	574.235592	574.240197
574.245766	574.252278	574.259610	574.267545	574.275784
574.283964	574.291698	574.298600	574.304329	574.308611
574.311268	574.312235	574.311572	574.309460	574.306205
574.302211	574.297961	574.293977	574.290783	574.288862
574.288621	574.290360	574.294259	574.300360	574.308570
574.318668	574.330316	574.343086	574.356491	574.370030
574.383234	574.395719	574.407234	574.417701	574.427249
574.436224	574.445193	574.454922	574.466337	574.480462

Row 32

579.221155	579.193174	579.167418	579.143722	579.121765
579.101003	579.080580	579.059205	579.035002	579.005003
578.955968	578.882163	578.783406	578.659834	578.512298
578.342919	578.155672	577.956487	577.752054	577.547242
577.342241	577.130781	576.908687	576.683870	576.451997
576.206829	575.938010	575.630006	575.258878	574.777360
574.051596	574.035662	574.052382	574.068648	574.083322
574.096650	574.108800	574.119923	574.130167	574.139659
574.148495	574.156743	574.164443	574.171617	574.178267
574.184382	574.189943	574.194929	574.199328	574.203143
574.206403	574.209167	574.211530	574.213624	574.215610
574.217674	574.220010	574.222807	574.226231	574.230402
574.235378	574.241139	574.247586	574.254538	574.261746
574.268914	574.275726	574.281872	574.287074	574.291117
574.293860	574.295256	574.295356	574.294315	574.292377
574.289871	574.287183	574.284730	574.282932	574.282175
574.282790	574.285024	574.289025	574.294835	574.302386
574.311509	574.321941	574.333353	574.345370	574.357613
574.369731	574.381449	574.392595	574.403142	574.413226
574.423156	574.433416	574.444644	574.457597	574.473110

Row 33

579.376731	579.358851	579.344359	579.333310	579.325643
579.321123	579.319244	579.319094	579.318769	579.303033
579.264983	579.204702	579.122401	579.018590	578.894314
578.751399	578.592588	578.421320	578.240897	578.053134
577.856980	577.647731	577.417249	577.164825	576.903853
576.628838	576.330393	575.994325	575.597526	575.093221
574.339337	574.017996	574.047108	574.063288	574.076814
574.089261	574.100772	574.111437	574.121360	574.130632
574.139317	574.147462	574.155094	574.162228	574.168862
574.174984	574.180575	574.185610	574.190072	574.193959
574.197288	574.200111	574.202511	574.204607	574.206547
574.208498	574.210643	574.213156	574.216193	574.219873
574.224255	574.229332	574.235022	574.241172	574.247572
574.253969	574.260098	574.265702	574.270551	574.274469
574.277344	574.279138	574.279896	574.279744	574.278882
574.277575	574.276133	574.274894	574.274194	574.274349
574.275628	574.278235	574.282298	574.287858	574.294870
574.303206	574.312666	574.322997	574.333913	574.345126
574.356374	574.367458	574.378263	574.388791	574.399175
574.409688	574.420737	574.432855	574.446666	574.462851

Row 34

579.526114	579.517767	579.513933	579.514894	579.520870
579.531965	579.548075	579.568746	579.581673	579.573761
579.545246	579.496394	579.427586	579.339423	579.232845

579.109217	578.970295	578.817970	578.653724	578.477880
578.288874	578.082827	577.853512	577.592455	577.308025
577.010059	576.689810	576.334226	575.922626	575.417494
574.733865	574.033073	574.048830	574.059139	574.070954
574.082497	574.093300	574.103423	574.112959	574.121963
574.130466	574.138490	574.146047	574.153145	574.159777
574.165928	574.171572	574.176676	574.181210	574.185156
574.188519	574.191336	574.193680	574.195659	574.197413
574.199106	574.200911	574.203007	574.205555	574.208682
574.212463	574.216908	574.221949	574.227454	574.233233
574.239063	574.244710	574.249950	574.254588	574.258476
574.261519	574.263687	574.265016	574.265608	574.265626
574.265285	574.264837	574.264554	574.264713	574.265572
574.267354	574.270232	574.274317	574.279653	574.286213
574.293905	574.302578	574.312038	574.322069	574.332448
574.342981	574.353517	574.363981	574.374388	574.384860
574.395631	574.407046	574.419547	574.433650	574.449916

Row 35

579.668955	579.669483	579.675588	579.687783	579.706581
579.732457	579.765769	579.801989	579.820681	579.819762
579.799568	579.760448	579.702825	579.627256	579.534483
579.425435	579.301145	579.162537	579.010066	578.843273
578.660362	578.457915	578.230756	577.971798	577.674828
577.359122	577.022996	576.654466	576.235455	575.736065
575.098265	574.152167	574.048167	574.053616	574.065414
574.076256	574.086261	574.095767	574.104875	574.113591
574.121899	574.129794	574.137276	574.144344	574.150992
574.157198	574.162927	574.168130	574.172756	574.176762
574.180132	574.182885	574.185085	574.186834	574.188270
574.189557	574.190875	574.192415	574.194359	574.196860
574.200021	574.203871	574.208360	574.213360	574.218688
574.224132	574.229471	574.234502	574.239051	574.242988
574.246231	574.248754	574.250584	574.251803	574.252544
574.252980	574.253319	574.253784	574.254604	574.255994
574.258143	574.261201	574.265268	574.270392	574.276563
574.283716	574.291741	574.300491	574.309797	574.319491
574.329417	574.339463	574.349571	574.359758	574.370130
574.380882	574.392303	574.404759	574.418680	574.434529

Row 36

579.804913	579.813567	579.828771	579.851265	579.881858
579.921416	579.970752	580.013764	580.037744	580.043108
580.030231	579.999481	579.951260	579.886026	579.804310
579.706684	579.593669	579.465574	579.322249	579.162802
578.985331	578.786706	578.562401	578.306263	578.010050
577.681086	577.333921	576.957558	576.535946	576.043738
575.433753	574.574473	574.016364	574.047092	574.060897
574.070556	574.079493	574.088320	574.097008	574.105449
574.113570	574.121337	574.128745	574.135793	574.142477
574.148772	574.154630	574.159980	574.164738	574.168823
574.172188	574.174829	574.176800	574.178206	574.179188
574.179916	574.180586	574.181413	574.182615	574.184393
574.186895	574.190179	574.194205	574.198839	574.203882
574.209112	574.214305	574.219265	574.223833	574.227890
574.231363	574.234228	574.236503	574.238255	574.239590
574.240651	574.241608	574.242648	574.243963	574.245737
574.248135	574.251290	574.255297	574.260209	574.266030
574.272721	574.280202	574.288361	574.297068	574.306187
574.315591	574.325185	574.334918	574.344799	574.354908
574.365405	574.376525	574.388574	574.401909	574.416919

Row 37

579.933680	579.949620	579.972961	580.004652	580.045786
580.097614	580.158471	580.205585	580.234452	580.245505
580.239125	580.215668	580.175481	580.118912	580.046304
579.957949	579.854013	579.734402	579.598599	579.445464
579.273051	579.078434	578.857529	578.604858	578.313116
577.979040	577.625073	577.245154	576.824793	576.341769
575.755687	574.966853	574.019284	574.051051	574.058691
574.065094	574.072675	574.080891	574.089249	574.097475
574.105435	574.113082	574.120415	574.127450	574.134192
574.140619	574.146669	574.152242	574.157203	574.161416
574.164779	574.167264	574.168923	574.169867	574.170251
574.170256	574.170095	574.170017	574.170299	574.171218
574.172995	574.175735	574.179397	574.183818	574.188754
574.193946	574.199151	574.204173	574.208857	574.213098
574.216830	574.220030	574.222709	574.224918	574.226743
574.228301	574.229734	574.231201	574.232869	574.234899
574.237439	574.240613	574.244515	574.249202	574.254696
574.260977	574.267990	574.275653	574.283858	574.292491
574.301442	574.310618	574.319963	574.329467	574.339179
574.349220	574.359778	574.371108	574.383511	574.397317

Row 38

580.055004	580.077309	580.107712	580.147339	580.197529
580.259883	580.327691	580.378706	580.412123	580.428375

580.427834	580.410825	580.377633	580.328501	580.263615
580.183058	580.086743	579.974314	579.845022	579.697585
579.530048	579.339639	579.122601	578.873967	578.587173
578.254982	577.898159	577.518525	577.103001	576.632311
576.073321	575.354406	574.225444	574.066401	574.055738
574.058493	574.065304	574.073287	574.081522	574.089635
574.097469	574.104992	574.112238	574.119256	574.126078
574.132689	574.139020	574.144931	574.150219	574.154649
574.158039	574.160327	574.161576	574.161930	574.161563
574.160665	574.159461	574.158235	574.157350	574.157208
574.158156	574.160370	574.163799	574.168200	574.173242
574.178591	574.183971	574.189179	574.194071	574.198555
574.202575	574.206107	574.209158	574.211765	574.213995
574.215944	574.217732	574.219500	574.221395	574.223564
574.226146	574.229261	574.233005	574.237444	574.242616
574.248519	574.255122	574.262361	574.270146	574.278373
574.286936	574.295734	574.304692	574.313771	574.322981
574.332400	574.342173	574.352511	574.363678	574.375959

Row 39

580.168704	580.196392	580.232690	580.278857	580.336416
580.407238	580.479417	580.534165	580.571854	580.592910
580.597688	580.586475	580.559497	580.516906	580.458762
580.384994	580.295337	580.189260	580.065866	579.923793
579.761096	579.575126	579.362382	579.118299	578.836909
578.510390	578.154506	577.778689	577.371280	576.915990
576.386705	575.732589	574.810585	574.053489	574.043836
574.049253	574.057087	574.065442	574.073828	574.081945
574.089676	574.097045	574.104157	574.111134	574.118049
574.124904	574.131630	574.138058	574.143878	574.148689
574.152161	574.154193	574.154910	574.154527	574.153249
574.151259	574.148768	574.146083	574.143673	574.142152
574.142101	574.143821	574.147213	574.151874	574.157295
574.163029	574.168754	574.174267	574.179449	574.184227
574.188560	574.192429	574.195833	574.198793	574.201358
574.203607	574.205645	574.207597	574.209602	574.211801
574.214327	574.217302	574.220828	574.224984	574.229823
574.235365	574.241598	574.248474	574.255912	574.263812
574.272058	574.280533	574.289130	574.297767	574.306405
574.315068	574.323861	574.332965	574.342618	574.353083

Row 40

580.274693	580.306741	580.347711	580.398931	580.462026
580.539020	580.614480	580.672825	580.714565	580.740114
580.749806	580.743895	580.722551	580.685855	580.633771
580.566111	580.482489	580.382253	580.264418	580.127572
579.969792	579.788533	579.580495	579.341436	579.065878
578.746610	578.395338	578.026534	577.629997	577.192310
576.693684	576.100339	575.341870	574.184428	574.024074
574.038806	574.048408	574.057496	574.066281	574.074498
574.082100	574.089223	574.096099	574.102972	574.109982
574.117138	574.124393	574.131597	574.138309	574.143797
574.147435	574.149094	574.149088	574.147797	574.145455
574.142197	574.138164	574.133616	574.129133	574.125700
574.124367	574.125670	574.129374	574.134727	574.140904
574.147289	574.153527	574.159449	574.164983	574.170097
574.174770	574.178986	574.182733	574.186016	574.188862
574.191332	574.193520	574.195548	574.197551	574.199670
574.202041	574.204790	574.208027	574.211849	574.216329
574.221510	574.227401	574.233967	574.241132	574.248790
574.256807	574.265039	574.273337	574.281558	574.289593
574.297401	574.305041	574.312681	574.320558	574.328935

Row 41

580.372984	580.408364	580.452766	580.507522	580.574264
580.655001	580.733564	580.795403	580.841022	580.870824
580.885125	580.884146	580.868019	580.836764	580.790274
580.728280	580.650310	580.555636	580.443211	580.311603
580.158912	579.982678	579.779762	579.546183	579.276860
578.965195	578.621990	578.262990	577.879432	577.460445
576.991330	576.449940	575.797651	574.943184	574.020192
574.030691	574.039639	574.049688	574.059133	574.067480
574.074845	574.081522	574.087950	574.094603	574.101711
574.109207	574.117086	574.125424	574.133683	574.140426
574.144332	574.145312	574.144245	574.141863	574.138348
574.133698	574.127918	574.121025	574.113588	574.107271
574.104154	574.105254	574.109941	574.116700	574.124150
574.131479	574.138370	574.144764	574.150685	574.156162
574.161199	574.165780	574.169879	574.173470	574.176555
574.179175	574.181418	574.183411	574.185298	574.187227
574.189338	574.191764	574.194629	574.198047	574.202122
574.206925	574.212490	574.218797	574.225769	574.233284
574.241183	574.249289	574.257399	574.265292	574.272752
574.279639	574.285962	574.291899	574.297732	574.303752

Row 42

580.463696	580.501408	580.548035	580.604848	580.673392
580.755581	580.837228	580.902487	580.951857	580.985735
581.004418	581.008108	580.996902	580.970780	580.929585
580.872991	580.800469	580.711242	580.604228	580.477984
580.330634	580.159788	579.962434	579.734792	579.472099
579.168250	578.836066	578.489202	578.120087	577.719927
577.277742	576.778595	576.199574	575.497641	574.558171
574.020079	574.029866	574.042445	574.052831	574.061186
574.068088	574.073962	574.079507	574.085735	574.093058
574.100917	574.109246	574.119099	574.130224	574.139480
574.143692	574.143119	574.140349	574.136793	574.132110
574.126021	574.118524	574.108879	574.096990	574.085816
574.079967	574.081490	574.088544	574.097909	574.107306
574.115833	574.123422	574.130274	574.136571	574.142416
574.147842	574.152824	574.157305	574.161215	574.164511
574.167213	574.169411	574.171251	574.172900	574.174521
574.176261	574.178257	574.180646	574.183569	574.187165
574.191551	574.196795	574.202895	574.209768	574.217261
574.225184	574.233322	574.241425	574.249168	574.256169
574.262115	574.266939	574.270888	574.274376	574.277764

Row 43

580.547055	580.586157	580.633882	580.691381	580.760032
580.841502	580.925920	580.994553	581.047586	581.085411
581.108318	581.116493	581.110012	581.088829	581.052754
581.001426	580.934282	580.850515	580.749025	580.628368
580.486690	580.321653	580.130339	579.909121	579.653472
579.357973	579.039520	578.706655	578.352896	577.971042
577.552673	577.087262	576.560217	575.947583	575.196353
574.093306	574.018886	574.037408	574.048023	574.055966
574.062133	574.066667	574.070361	574.075721	574.083950
574.092389	574.099911	574.111182	574.128146	574.143062
574.147207	574.142444	574.136792	574.132658	574.127027
574.119242	574.110784	574.098824	574.079773	574.059216
574.048737	574.052607	574.065020	574.078939	574.090993
574.100741	574.108862	574.116035	574.122641	574.128842
574.134686	574.140132	574.145067	574.149343	574.152843
574.155555	574.157586	574.159132	574.160407	574.161597
574.162851	574.164299	574.166086	574.168387	574.171394
574.175290	574.180202	574.186154	574.193047	574.200673
574.208787	574.217156	574.225517	574.233437	574.240256
574.245312	574.248386	574.249929	574.250701	574.251181

Row 44

580.623381	580.663019	580.710834	580.767815	580.835113
580.914070	580.999990	581.071974	581.128613	581.170301
581.197325	581.209866	581.207991	581.191639	581.160605
581.114511	581.052778	580.974585	580.878828	580.764067
580.628467	580.469728	580.284996	580.070745	579.822610
579.537242	579.234657	578.917218	578.579313	578.214885
577.817203	577.378419	576.888560	576.332802	575.682854
574.863748	574.019678	574.037523	574.044842	574.052071
574.057481	574.060329	574.059664	574.062583	574.074722
574.085605	574.087094	574.096903	574.127264	574.156823
574.158703	574.141422	574.131155	574.130223	574.124067
574.112122	574.105440	574.095733	574.064198	574.022378
574.003353	574.016015	574.040241	574.061444	574.076381
574.086719	574.094824	574.102046	574.108850	574.115383
574.121692	574.127709	574.133239	574.137992	574.141719
574.144351	574.146049	574.147117	574.147860	574.148495
574.149151	574.149925	574.150957	574.152459	574.154707
574.157990	574.162533	574.168412	574.175493	574.183459
574.191951	574.200747	574.209710	574.218381	574.225624
574.229994	574.230873	574.229238	574.226813	574.224245

Row 45

580.693071	580.732503	580.779548	580.835012	580.899789
580.974861	581.059698	581.135028	581.195244	581.240744
581.271821	581.288660	581.291329	581.279767	581.253768
581.212952	581.156742	581.084319	580.994584	580.886109
580.757075	580.605206	580.427681	580.221030	579.980979
579.709140	579.424078	579.123122	578.801291	578.453274
578.073362	577.655270	577.191695	576.673085	576.083973
575.390909	574.479136	574.030719	574.042920	574.049536
574.054454	574.058255	574.046130	574.038856	574.066215
574.091092	574.066507	574.060013	574.124986	574.197759
574.187462	574.130499	574.115276	574.134679	574.127706
574.097453	574.099774	574.115323	574.058676	573.960528
573.924692	573.970191	574.018456	574.049088	574.065260
574.074132	574.081198	574.088185	574.095094	574.101926
574.108763	574.115528	574.121915	574.127384	574.131407
574.133819	574.134917	574.135242	574.135270	574.135245
574.135219	574.135199	574.135284	574.135739	574.136964
574.139422	574.143510	574.149412	574.156958	574.165585
574.174638	574.183925	574.193816	574.204218	574.213238
574.217554	574.215289	574.208711	574.202413	574.197516

Row 46

580.756582	580.795187	580.840768	580.893939	580.955338
581.025595	581.105279	581.183908	581.247690	581.296978
581.332076	581.353182	581.360377	581.353613	581.332696
581.297263	581.246750	581.180358	581.097006	580.995284
580.873388	580.729056	580.559477	580.361190	580.129981
579.876859	579.610574	579.326901	579.021230	578.688635
578.323895	577.921466	577.475411	576.979228	576.425071
575.799578	575.063402	574.027933	574.053529	574.046365
574.049053	574.073626	574.032396	573.973635	574.056351
574.150089	574.017293	573.946646	574.109009	574.308117
574.237354	574.074006	574.061456	574.173772	574.152550
574.047950	574.057821	574.219925	574.086376	573.830408
573.755937	573.928410	574.011184	574.048373	574.059555
574.062286	574.067275	574.074251	574.081229	574.088276
574.095704	574.103477	574.111209	574.117887	574.122368
574.124290	574.124300	574.123467	574.122577	574.121858
574.121150	574.120243	574.119147	574.118190	574.117977
574.119244	574.122683	574.128729	574.137231	574.147147
574.156963	574.166311	574.177009	574.190725	574.204657
574.210901	574.203377	574.187135	574.175491	574.172855

Row 47

580.814409	580.851693	580.895280	580.945605	581.003066
581.067985	581.140529	581.218718	581.286074	581.339144
581.378254	581.403623	581.415356	581.413431	581.397682
581.367776	581.323184	581.263137	581.186591	581.092162
580.978069	580.842055	580.681298	580.492307	580.274892
580.043539	579.797027	579.531312	579.241893	578.923906
578.572168	578.181168	577.745149	577.258631	576.718091
576.124836	575.483005	574.772511	574.162259	574.017001
574.016642	574.235292	574.358585	574.516680	574.894624
575.246902	575.470051	575.617519	575.773197	575.888114
575.850329	575.709395	575.590161	575.530053	575.464511
575.395189	575.380596	575.443179	575.383254	575.242332
575.009666	574.561981	574.034579	574.069971	574.058730
574.047046	574.051510	574.060522	574.067079	574.074100
574.082168	574.091209	574.101198	574.110178	574.115455
574.116278	574.114231	574.111556	574.109573	574.108321
574.107119	574.105311	574.102730	574.099821	574.097508
574.096959	574.099328	574.105571	574.115919	574.128608
574.139732	574.147366	574.156844	574.176003	574.202187
574.216885	574.199509	574.160354	574.136676	574.155952

Row 48

580.867061	580.902649	580.943871	580.990996	581.044223
581.103621	581.169054	581.240049	581.310433	581.367292
581.410419	581.440063	581.456364	581.459340	581.448867
581.424661	581.386242	581.332898	581.263632	581.177108
581.071575	580.944787	580.793896	580.615880	580.420861
580.212136	579.986304	579.738747	579.464820	579.160518
578.820741	578.438953	578.007062	577.518446	576.969287
576.370415	575.767455	575.229693	574.847597	574.760989
574.900243	575.142677	575.416641	575.732519	576.100716
576.467804	576.788425	577.047866	577.239333	577.343517
577.348670	577.282923	577.192807	577.100606	577.001945
576.894362	576.786826	576.673598	576.524635	576.328344
576.074273	575.741926	575.320960	574.788732	574.044190
574.016356	574.032553	574.050254	574.051576	574.058943
574.067741	574.077653	574.091738	574.105652	574.112393
574.110593	574.104441	574.098800	574.095762	574.094608
574.093492	574.090904	574.086424	574.080731	574.075272
574.071897	574.072322	574.078358	574.091895	574.111128
574.126172	574.127202	574.126900	574.152884	574.207308
574.253207	574.215487	574.119203	574.049486	574.145349

Row 49

580.915044	580.948673	580.987293	581.031039	581.079946
581.133899	581.192553	581.255227	581.320760	581.381381
581.428535	581.462473	581.483380	581.491326	581.486247
581.467923	581.435949	581.389685	581.328215	581.250270
581.154151	581.037634	580.897874	580.740522	580.569983
580.380000	580.168290	579.932825	579.670736	579.378142
579.049818	578.678619	578.254540	577.763412	577.187011
576.525218	575.887968	575.451153	575.248255	575.266693
575.456396	575.751172	576.107918	576.510481	576.945354
577.384885	577.794865	578.139396	578.382589	578.502426
578.509726	578.444452	578.347682	578.238767	578.116209
577.973460	577.809404	577.624419	577.415262	577.177742
576.906091	576.593702	576.237502	575.834350	575.375286
574.845152	574.197378	574.046314	574.027940	574.043626
574.052926	574.059020	574.081860	574.107651	574.116902
574.108382	574.093724	574.083434	574.080156	574.080772
574.081053	574.077993	574.070957	574.061201	574.050893
574.043231	574.040251	574.043989	574.061327	574.096033
574.126944	574.110971	574.070043	574.100785	574.209015
574.368507	574.265378	574.401790	575.245630	575.878177

Row 50

580.958844	580.990347	581.026244	581.066564	581.111227
581.159988	581.212382	581.267629	581.324541	581.381407
581.432474	581.470721	581.496267	581.509246	581.509671
581.497408	581.472145	581.433351	581.380214	581.311569
581.225806	581.120853	581.001341	580.865652	580.709015
580.531147	580.330996	580.106726	579.855616	579.573823
579.255938	578.894111	578.476332	577.982602	577.375164
576.572025	575.725004	575.452965	575.426042	575.561842
575.828223	576.188943	576.616407	577.094098	577.608180
578.138823	578.653957	579.101445	579.412337	579.542540
579.520910	579.422558	579.305034	579.184231	579.046779
578.875049	578.665541	578.427774	578.171805	577.900474
577.610154	577.296468	576.959138	576.601400	576.226917
575.837320	575.425429	574.937810	574.299923	574.037087
574.046190	574.018689	574.069062	574.125264	574.137154
574.110579	574.078125	574.061440	574.061166	574.067197
574.071508	574.068390	574.057479	574.041979	574.023570
574.009912	574.002619	573.997653	574.011549	574.078621
574.169247	574.136125	573.925904	573.973969	574.939632
575.765516	576.322937	576.759345	577.134395	577.444553

Row 51

580.998917	581.028202	581.061345	581.098297	581.138896
581.182827	581.229566	581.278324	581.327974	581.376993
581.423420	581.464572	581.494774	581.512830	581.518847
581.512797	581.494493	581.463539	581.419270	581.360673
581.287638	581.204006	581.102087	580.978311	580.833119
580.666271	580.476826	580.263085	580.022459	579.751190
579.443831	579.092232	578.683389	578.194274	577.576115
576.683520	574.961082	575.294390	575.467944	575.719613
576.066776	576.495383	576.989581	577.538722	578.135322
578.769419	579.417233	580.015263	580.433030	580.554397
580.449113	580.280772	580.136049	580.016464	579.879212
579.683120	579.425401	579.134160	578.835206	578.535381
578.227346	577.903784	577.566737	577.224884	576.886552
576.555655	576.228776	575.892740	575.531149	575.115253
574.548527	573.886027	574.054509	574.183582	574.190193
574.114623	574.046070	574.024253	574.037506	574.054825
574.068657	574.065580	574.046667	574.025926	573.990608
573.969553	573.962356	573.943317	573.900994	574.026258
574.362994	575.143391	575.719479	576.344815	576.924290
577.429358	577.844687	578.178444	578.442816	578.640059

Row 52

581.035680	581.062718	581.093140	581.126846	581.163629
581.203140	581.244851	581.288016	581.331623	581.374375
581.414675	581.450679	581.480393	581.501855	581.513339
581.513612	581.502463	581.479835	581.446588	581.403871
581.352624	581.283884	581.192359	581.078928	580.943932
580.787132	580.607664	580.403958	580.173586	579.912984
579.616944	579.277671	578.882887	578.411743	577.825258
577.046228	575.964574	575.110594	575.423068	575.769386
576.191934	576.686085	577.242894	577.858076	578.533046
579.273450	580.082046	580.869651	581.326965	581.466046
581.305586	581.021010	580.857453	580.773822	580.668658
580.448437	580.121333	579.762135	579.420776	579.101316
578.780517	578.441033	578.090871	577.748954	577.428384
577.133550	576.862020	576.606548	576.356935	576.097595
575.799782	575.438377	575.007790	574.405018	574.292102
574.105588	573.964482	573.953733	574.015479	574.041867
574.081537	574.078409	574.031699	574.021391	573.967766
573.921612	574.000449	574.537736	574.996422	575.560310
576.131940	576.680822	577.210364	577.732825	578.227128
578.654617	579.001033	579.275882	579.486421	579.634404

Row 53

581.069508	581.094313	581.122093	581.152717	581.185958
581.221468	581.258749	581.297129	581.335740	581.373515
581.409194	581.441382	581.468640	581.489612	581.503199
581.508699	581.505921	581.495186	581.477223	581.452947
581.415941	581.355643	581.272946	581.168529	581.042640
580.895035	580.724924	580.530874	580.310668	580.061058
579.777342	579.452644	579.076646	578.633405	578.098112
577.435156	576.602436	575.508718	575.286596	575.714872
576.207656	576.765013	577.379417	578.051274	578.789917
579.617488	580.578264	581.392925	581.853537	582.019262
581.914277	581.594441	581.452589	581.474972	581.418253
581.187506	580.762062	580.305756	579.927233	579.610929
579.290888	578.924289	578.543449	578.189606	577.878936
577.612663	577.385738	577.190448	577.017809	576.857081
576.696219	576.527831	576.345190	576.110047	575.708462
575.074099	573.963005	573.792503	574.039561	573.994282
574.132520	574.215531	574.234100	574.347745	574.672333
575.603399	575.912376	575.949020	576.250317	576.693507
577.203562	577.736199	578.270243	578.782129	579.219892
579.585998	579.886228	580.124984	580.305233	580.427667

Row 54

581.100733	581.123349	581.148591	581.176314	581.206293
581.238200	581.271588	581.305881	581.340361	581.374180
581.406378	581.435939	581.461863	581.483274	581.499527
581.510318	581.515737	581.516271	581.512713	581.503255
581.472719	581.419467	581.344314	581.247788	581.130064
580.990907	580.829603	580.644882	580.434784	580.196465
579.925893	579.617379	579.262886	578.851143	578.366888
577.790997	577.099318	576.244112	575.059891	575.531579
576.106219	576.729206	577.397423	578.114195	578.892335
579.760198	580.771919	581.593015	582.068095	582.257546
582.191774	581.921696	581.872712	581.948125	581.890770
581.673444	581.271740	580.727862	580.335014	580.080085
579.797958	579.363009	578.921056	578.547850	578.247164
578.009988	577.825588	577.683608	577.575232	577.491682
577.423219	577.365344	577.320870	577.272861	577.146428
576.826845	576.104771	574.975104	574.156710	573.827268
574.333504	574.657822	574.747130	574.752377	574.934431
575.944950	576.749531	576.753308	577.038995	577.482775
578.005634	578.562729	579.111804	579.582873	579.981540
580.315605	580.589678	580.806752	580.968550	581.075417

Row 55

581.129644	581.150135	581.172954	581.197960	581.224940
581.253601	581.283562	581.314346	581.345384	581.376027
581.405578	581.433336	581.458660	581.481054	581.500246
581.516262	581.529472	581.540578	581.550548	581.548027
581.522694	581.475367	581.406699	581.317110	581.206732
581.075350	580.922347	580.746629	580.546522	580.319630
580.062634	579.771029	579.438791	579.058080	578.619086
578.109934	577.514904	576.805807	575.913053	575.156183
575.870283	576.570025	577.294007	578.046544	578.839380
579.693447	580.640297	581.491341	581.989921	582.198563
582.152533	581.962582	582.030425	582.131015	582.088334
581.885317	581.505203	580.960722	580.595069	580.459747
580.208096	579.728279	579.197685	578.814706	578.534355
578.333548	578.195006	578.104540	578.054484	578.039163
578.043690	578.060655	578.114123	578.240875	578.323794
578.225212	577.605487	575.399816	574.467301	574.492736
574.829746	575.130167	575.225703	575.298099	575.157542
575.512541	577.136895	577.222406	577.572200	578.067508
578.636303	579.231660	579.757571	580.204741	580.583439
580.900243	581.159345	581.363388	581.513829	581.611032

Row 56

581.156496	581.174930	581.195445	581.217905	581.242123
581.267847	581.294765	581.322500	581.350621	581.378658
581.406139	581.432624	581.457769	581.481385	581.503510
581.524463	581.544880	581.565722	581.585612	581.586572
581.565555	581.523240	581.460170	581.376696	581.272932
581.148706	581.003508	580.836432	580.646096	580.430549
580.187149	579.912419	579.601907	579.250087	578.850289
578.394446	577.871799	577.264988	576.541149	575.629660
575.461937	576.268496	577.065831	577.854225	578.647854
579.458237	580.284308	581.077898	581.611606	581.834948
581.800016	581.761298	581.899318	582.049887	582.031726
581.841227	581.468452	580.952058	580.629640	580.529772
580.300176	579.849175	579.331920	578.980218	578.740119
578.588527	578.503763	578.464354	578.465771	578.521285
578.592371	578.654276	578.721121	579.021720	578.454405
577.687034	576.473178	574.879059	574.657291	575.305567
575.888521	576.357296	576.594274	576.465736	575.940273
575.106128	577.095869	577.438548	577.920881	578.501830
579.136974	579.741831	580.256257	580.693771	581.063605
581.372029	581.623244	581.819966	581.963754	582.055172

Row 57

581.181505	581.197957	581.216277	581.236346	581.258003
581.281045	581.305226	581.330261	581.355845	581.381665
581.407436	581.432939	581.458068	581.482892	581.507705
581.533083	581.559921	581.589452	581.614590	581.618396
581.600971	581.562905	581.504671	581.426585	581.328769
581.211106	581.073206	580.914351	580.733446	580.528952
580.298820	580.040415	579.750451	579.424949	579.059156
578.647272	578.181601	577.650572	577.034691	576.295972
575.325351	575.784896	576.708333	577.546633	578.343599
579.112359	579.841820	580.487466	580.968318	581.229313
581.332324	581.404962	581.538231	581.715536	581.724864
581.541084	581.158332	580.726122	580.432930	580.280199
580.081661	579.692558	579.321869	579.047190	578.865305
578.779498	578.763806	578.775590	578.800133	578.968293
578.694539	578.083332	577.357911	576.615531	575.819742
575.747310	575.796258	575.876566	576.308343	576.770076
577.180209	577.567886	577.705124	577.460730	576.752048
575.474624	576.653143	577.478879	578.133294	578.816528
579.515032	580.123798	580.639658	581.076948	581.445286
581.751282	581.999470	582.192867	582.333312	582.421655

Row 58

581.204864	581.219401	581.235626	581.253436	581.272700
581.293259	581.314931	581.337517	581.360818	581.384655
581.408900	581.433512	581.458582	581.484384	581.511428
581.540511	581.572762	581.609626	581.636922	581.643046
581.628602	581.594126	581.540054	581.466694	581.374195
581.262512	581.131375	580.980256	580.808324	580.614412
580.396973	580.154038	579.883186	579.581500	579.245473
578.870760	578.451573	577.979441	577.440634	576.809691
576.028828	575.061317	576.212905	577.130245	577.948819
578.698637	579.374555	579.950254	580.390563	580.681591
580.855878	580.973405	581.078126	581.164238	581.158578
580.981987	580.676646	580.357142	580.094047	579.889034
579.682010	579.442434	579.218106	579.035712	578.907907
578.908606	578.995783	578.475729	577.774203	576.980379
576.115014	575.153436	575.581574	575.982499	576.425757
576.807385	577.025904	577.209696	577.462221	577.766223
578.112073	578.449523	578.471076	578.140858	577.384126
575.919501	576.341244	577.451888	578.245837	579.030813
579.776945	580.401980	580.928187	581.371939	581.744029
582.051849	582.300511	582.493487	582.632994	582.720221

Row 59

581.226737	581.239423	581.253638	581.269297	581.286299
581.304526	581.323852	581.344151	581.365315	581.387276
581.410032	581.433685	581.458480	581.484857	581.513494
581.545369	581.581809	581.623578	581.652119	581.660105
581.648105	581.616628	581.566101	581.496844	581.409048
581.302751	581.177808	581.033869	580.870351	580.686410
580.480920	580.252446	579.999217	579.719078	579.409395
579.066820	578.686826	578.262804	577.784324	577.233580
576.578040	575.754691	575.559887	576.596310	577.473893
578.239314	578.903281	579.456762	579.886570	580.192125
580.393457	580.521125	580.595666	580.612946	580.548544
580.387262	580.154178	579.902987	579.674399	579.474530
579.291368	579.152072	579.072103	578.817002	578.152157
577.439595	576.653863	575.658647	575.427825	575.690677
576.051738	576.425341	576.775779	577.117835	577.433766
577.693257	577.892667	578.067171	578.255859	578.475116
578.746886	579.009137	578.974143	578.601263	577.797900
576.327476	575.972891	577.356589	578.270440	579.154547
579.943143	580.593111	581.136075	581.591181	581.970887
582.283666	582.535387	582.730089	582.870432	582.957978

Row 60

581.247272	581.258163	581.270438	581.284032	581.298870
581.314869	581.331952	581.350053	581.369139	581.389227
581.410416	581.432915	581.457087	581.483492	581.512937
581.546530	581.585745	581.630275	581.659750	581.669186
581.659139	581.630113	581.582544	581.516781	581.433074
581.331546	581.212182	581.074802	580.919047	580.744359
580.549968	580.334873	580.097811	579.837217	579.551111
579.236899	578.890978	578.508038	578.079825	577.592903
577.024432	576.331347	575.421794	575.897023	576.913879
577.741603	578.434523	579.000704	579.437850	579.751748
579.959558	580.081183	580.126637	580.090891	579.975518
579.803431	579.597529	579.384982	579.194497	579.016732
578.470933	577.831837	577.135607	576.294165	575.099154
575.428213	575.802355	576.159423	576.467063	576.738012
577.031431	577.343483	577.663282	577.953899	578.197705
578.399384	578.564173	578.706722	578.844330	578.989744
579.155899	579.326733	579.253711	578.855810	578.039242
576.635506	575.494749	577.123080	578.203768	579.191232
580.027901	580.709296	581.273760	581.743853	582.134046
582.454110	582.710808	582.908823	583.051308	583.140216

Row 61

581.266603	581.275744	581.286137	581.297732	581.310475
581.324313	581.339208	581.355141	581.372136	581.390275
581.409729	581.430784	581.453884	581.479669	581.509025
581.543141	581.583573	581.629317	581.659431	581.669929
581.661368	581.634263	581.589072	581.526193	581.445939
581.348532	581.234082	581.102572	580.953850	580.787613
580.603397	580.400565	580.178280	579.935455	579.670660
579.381929	579.066436	578.719917	578.335698	577.902964
577.403332	576.802280	576.052246	575.059854	576.243253
577.200800	577.971461	578.586273	579.046082	579.364484
579.566554	579.674265	579.695245	579.600988	579.398129
579.190771	578.950166	578.220474	577.468257	576.634582
575.646001	575.247328	575.620588	575.973517	576.259637
576.501794	576.758131	577.018015	577.272214	577.526470
577.796014	578.085719	578.373543	578.613609	578.812003
578.974015	579.104699	579.211125	579.300451	579.376499
579.436105	579.455233	579.338500	578.918445	578.111242
576.894163	574.919910	576.761770	578.059110	579.149689
580.041863	580.759596	581.349133	581.836915	582.239710
582.568765	582.831840	583.034324	583.179892	583.270901

Row 62

581.284851	581.292282	581.300839	581.310482	581.321175
581.332889	581.345612	581.359361	581.374200	581.390256
581.407744	581.427001	581.448513	581.472962	581.501266
581.534639	581.574651	581.620355	581.650820	581.662000
581.654463	581.628746	581.585347	581.524718	581.447251
581.353269	581.243009	581.116614	580.974122	580.815459
580.640435	580.448731	580.239879	580.013221	579.767821
579.502304	579.214577	578.901352	578.557336	578.173794
577.735772	577.216178	576.587005	575.800735	575.393045
576.591217	577.516043	578.233381	578.730324	579.042615
579.225045	579.310097	579.326415	579.237116	578.142834
577.226969	576.308296	575.146044	575.476497	575.833968
576.157929	576.405483	576.649340	576.884769	577.101192
577.304726	577.510824	577.723834	577.944899	578.178680
578.432316	578.707903	578.953950	579.156065	579.320074
579.450102	579.549515	579.621324	579.667007	579.683910
579.660671	579.567923	579.345877	578.913274	578.206836
577.154376	575.468649	576.443272	577.861629	579.039973
579.992689	580.750821	581.368233	581.875697	582.292610
582.631864	582.902302	583.110063	583.259363	583.352967

Row 63

581.302131	581.307887	581.314643	581.322369	581.331039
581.340641	581.351182	581.362700	581.375282	581.389081
581.404336	581.421401	581.440775	581.463143	581.489410
581.520759	581.558704	581.603087	581.633614	581.645090
581.638104	581.613226	581.571004	581.511955	581.436560
581.345250	581.238392	581.116283	580.979141	580.827106
580.660231	580.478489	580.281750	580.069757	579.842053
579.597859	579.335841	579.053729	578.747657	578.411019
578.032300	577.590573	577.070566	576.436392	575.541104
575.797464	577.065615	577.995515	578.534169	578.798801
578.945941	578.980419	577.785129	576.205197	575.277369
575.541772	576.006763	576.317062	576.574007	576.823551
577.054512	577.260124	577.451418	577.633111	577.806115
577.975018	578.147216	578.328501	578.523477	578.737429
578.976336	579.228511	579.439870	579.611210	579.746758
579.849377	579.920859	579.961780	579.970537	579.941417
579.861487	579.706372	579.437698	579.008061	578.367371
577.437588	575.973852	576.112944	577.611094	578.863068
579.885082	580.688118	581.335693	581.864248	582.296295
582.646547	582.924998	583.138562	583.292006	583.388498

Row 64

581.318552	581.322663	581.327648	581.333481	581.340145
581.347633	581.355962	581.365183	581.375389	581.386739
581.399475	581.413944	581.430629	581.450178	581.473444
581.501527	581.535822	581.577256	581.607544	581.618916
581.611986	581.587364	581.545659	581.487465	581.413363
581.323900	581.219579	581.100849	580.968100	580.821668
580.661835	580.488841	580.302876	580.104071	579.892454
579.667863	579.429788	579.177070	578.907411	578.616569
578.296897	577.934134	577.528249	577.047547	576.342002
574.140883	576.645928	578.006248	578.552971	578.579352
577.666228	575.452886	575.849704	576.261434	576.439591
576.662417	576.932072	577.184103	577.408615	577.614551
577.803391	577.975691	578.134510	578.282324	578.422610
578.561332	578.704691	578.858847	579.029685	579.223257
579.445929	579.669614	579.851865	579.996927	580.107863
580.186496	580.233463	580.247942	580.226922	580.163941
580.047377	579.858789	579.572558	579.157482	578.575454
577.761931	576.537429	575.836830	577.256930	578.617619
579.723108	580.575735	581.255023	581.805500	582.253281
582.615007	582.901853	583.121520	583.279327	583.378837

Row 65

581.334223	581.336715	581.339955	581.343916	581.348581
581.353946	581.360029	581.366877	581.374581	581.383290
581.393227	581.404711	581.418178	581.434212	581.453576
581.477242	581.506433	581.542645	581.572381	581.583225
581.575820	581.550824	581.508914	581.450778	581.377107
581.288579	581.185839	581.069490	580.940088	580.798151
580.644172	580.478639	580.302049	580.114912	579.917742
579.711028	579.495147	579.270161	579.035455	578.789287
578.528301	578.247655	577.965309	577.663149	577.267867
576.618680	576.550561	578.516418	578.696173	576.622184
575.863785	576.310170	576.720614	577.026113	577.255011
577.473468	577.695711	577.903835	578.093770	578.268234
578.429310	578.578269	578.716733	578.846416	578.968994
579.086533	579.203232	579.330918	579.477027	579.648200
579.851154	580.046227	580.202973	580.324843	580.414005
580.471492	580.497176	580.489530	580.445126	580.357900
580.218327	580.012840	579.723958	579.330822	578.807790
578.115124	577.160799	575.951182	576.682443	578.334473
579.514436	580.417313	581.128563	581.701287	582.165106
582.538549	582.833969	583.059864	583.222102	583.324632

Row 66

581.349246	581.350149	581.351669	581.353777	581.356452
581.359684	581.363485	581.367890	581.372975	581.378864
581.385744	581.393886	581.403659	581.415554	581.430211
581.448441	581.471254	581.499883	581.527938	581.537800
581.529343	581.503278	581.460360	581.401386	581.327180
581.238565	581.136343	581.021276	580.894077	580.755432
580.606022	580.446568	580.277853	580.100755	579.916265
579.725528	579.529870	579.330698	579.129136	578.925665
578.720822	578.522991	578.367343	578.251767	578.161273
578.182739	578.675784	578.721000	578.290471	577.435871
577.171900	577.275069	577.490292	577.718562	577.935525
578.136877	578.325381	578.502115	578.666361	578.818669
578.960042	579.091510	579.214261	579.329666	579.439296
579.545070	579.649386	579.755239	579.874669	580.020431
580.198991	580.368106	580.501867	580.602837	580.672475
580.711231	580.718510	580.692499	580.629867	580.525374
580.371528	580.158472	579.874289	579.505584	579.037890
578.456375	577.757201	577.105549	576.913128	578.076216
579.265762	580.214206	580.957011	581.552225	582.032311
582.417594	582.721639	582.953763	583.120389	583.225842

Row 67

581.363728	581.363071	581.362899	581.363175	581.363871
581.364968	581.366459	581.368365	581.370733	581.373649
581.377255	581.381753	581.387426	581.394652	581.403923
581.415863	581.431243	581.450989	581.474080	581.482472
581.472330	581.444417	581.399582	581.338749	581.262903
581.173043	581.070149	580.955146	580.828900	580.692238
580.546003	580.391120	580.228643	580.059799	579.886016
579.709043	579.531174	579.355381	579.184743	579.021139
578.866404	578.744505	578.706525	578.771374	578.884982
578.830664	578.793708	578.685449	578.441246	578.120649
577.962475	577.997311	578.140432	578.327776	578.514655
578.690299	578.855697	579.011198	579.156628	579.292139
579.418256	579.535726	579.645493	579.748717	579.846803
579.941479	580.034897	580.129732	580.229330	580.346262
580.496507	580.641779	580.754438	580.836311	580.888280
580.910359	580.901671	580.860351	580.783376	580.666386
580.503587	580.287836	580.011022	579.664804	579.241982
578.740237	578.174635	577.623408	577.217567	577.836266
578.996213	579.963129	580.738980	581.357651	581.854421
582.251655	582.564300	582.802574	582.973478	583.081694

Row 68

581.377770	581.375589	581.373757	581.372231	581.370968
581.369934	581.369107	581.368476	581.368056	581.367889
581.368053	581.368673	581.369930	581.372073	581.375427
581.380411	581.387537	581.397417	581.410749	581.417135
581.404605	581.373964	581.326163	581.262286	581.183516
581.091078	580.986163	580.869876	580.743217	580.607120
580.462541	580.310570	580.152520	579.989958	579.824681
579.658851	579.495566	579.339725	579.197648	579.072108
578.961152	578.894869	578.923543	579.039216	578.975758
578.912764	578.863489	578.789541	578.672480	578.551281
578.503120	578.555890	578.686170	578.845613	579.006919
579.162927	579.311295	579.451194	579.582258	579.704479
579.818165	579.923874	580.022379	580.114667	580.201961
580.285776	580.367982	580.450890	580.537368	580.631053
580.748641	580.871609	580.964664	581.028931	581.064796
581.071924	581.049265	580.994999	580.906456	580.780055
580.611310	580.394973	580.125389	579.797117	579.406048
578.951551	578.439699	577.909867	577.440035	577.580196
578.717026	579.666586	580.471318	581.115736	581.629922
582.039242	582.360431	582.604749	582.779798	582.890600

Row 69

581.391475	581.387810	581.384359	581.381067	581.377877
581.374736	581.371598	581.368422	581.365182	581.361865
581.358483	581.355072	581.351701	581.348475	581.345543
581.343104	581.341402	581.340733	581.341423	581.341765
581.326073	581.291696	581.239702	581.171371	581.088155
580.991573	580.883094	580.764025	580.635478	580.498424
580.353847	580.202938	580.047272	579.888816	579.729699
579.572060	579.419028	579.277316	579.160474	579.078412
579.015283	578.979647	578.983975	578.988956	578.986003
578.971633	578.955249	578.932206	578.902573	578.887054
578.916455	579.006071	579.138553	579.282800	579.428933
579.571279	579.707085	579.835116	579.954861	580.066231
580.169434	580.264912	580.353306	580.435450	580.512384
580.585384	580.656007	580.726147	580.798104	580.874659
580.960746	581.060397	581.135128	581.183087	581.204196
581.197821	581.162780	581.097324	580.999103	580.865154
580.691943	580.475490	580.211600	579.896204	579.525742
579.097317	578.607218	578.090410	577.583320	577.289776

578.425000	579.369763	580.159229	580.823732	581.356168
581.777677	582.107351	582.357643	582.536754	582.650000

Row 70

581.404943	581.399842	581.394821	581.389811	581.384740
581.379534	581.374119	581.368421	581.362368	581.355892
581.348929	581.341422	581.333320	581.324581	581.315167
581.305047	581.294194	581.282580	581.270169	581.256899
581.236752	581.197479	581.139829	581.065332	580.975808
580.873201	580.759363	580.635853	580.503852	580.364252
580.217899	580.065953	579.910258	579.753436	579.598253
579.446125	579.298073	579.159741	579.051611	579.056288
579.056338	579.039806	579.024848	579.004989	579.008130
579.028232	579.051772	579.079599	579.114945	579.168773
579.255177	579.379000	579.515172	579.654679	579.792901
579.926394	580.053113	580.172011	580.282642	580.384933
580.479064	580.565409	580.644509	580.717057	580.783909
580.846094	580.904839	580.961595	581.018050	581.076141
581.138011	581.209750	581.267354	581.300198	581.307751
581.289091	581.242916	581.167532	581.060840	580.920340
580.743165	580.526155	580.265952	579.959040	579.601533
579.188144	578.713105	578.217973	577.690754	577.039810
578.134113	579.093822	579.862803	580.498524	581.029369
581.462679	581.800860	582.057209	582.240456	582.356130

Row 71

581.418272	581.411791	581.405259	581.398592	581.391702
581.384494	581.376863	581.368701	581.359889	581.350299
581.339794	581.328220	581.315404	581.301152	581.285237
581.267396	581.247319	581.224649	581.198980	581.169867
581.136838	581.091329	581.026250	580.943447	580.845264
580.734293	580.612970	580.483191	580.346142	580.202429
580.052457	579.897050	579.738239	579.579799	579.426836
579.279635	579.132253	578.986558	579.038296	579.094694
579.109369	579.095169	579.068392	579.035579	579.032866
579.080435	579.143786	579.218761	579.306395	579.412240
579.543447	579.690076	579.833678	579.973683	580.108494
580.236551	580.356777	580.468579	580.571733	580.666263
580.752374	580.830410	580.900829	580.964198	581.021194
581.072600	581.119316	581.162349	581.202794	581.241779
581.280336	581.320569	581.362033	581.380933	581.376037
581.346138	581.289802	581.205360	581.090892	580.944225
580.762953	580.544456	580.285880	579.983993	579.634658
579.231415	578.784676	578.326133	577.826830	577.213528
577.895659	578.864193	579.605087	580.203861	580.699748
581.110129	581.442533	581.700738	581.888179	582.009775

Row 72

581.431557	581.423760	581.415786	581.407537	581.398908
581.389780	581.380023	581.369491	581.358019	581.345423
581.331490	581.315971	581.298578	581.278963	581.256713
581.231328	581.202213	581.168665	581.129880	581.084985
581.033112	580.973513	580.898830	580.804960	580.695025
580.572654	580.441251	580.303218	580.159621	580.010455
579.855160	579.693510	579.527357	579.361661	579.207831
579.072897	579.097509	579.130993	579.160594	579.182588
579.182430	579.158638	579.116894	579.063720	579.039540
579.119676	579.225397	579.344871	579.477388	579.625614
579.792149	579.954671	580.106718	580.249581	580.383504
580.508327	580.623864	580.730041	580.826921	580.914675
580.993566	581.063926	581.126152	581.180695	581.228060
581.268801	581.303503	581.332763	581.357135	581.377037
581.392577	581.403256	581.419194	581.425365	581.409092
581.368875	581.303138	581.210202	581.088257	580.935357
580.749415	580.528181	580.269174	579.969455	579.625075
579.234977	578.834763	578.428581	577.997266	577.484462
577.769046	578.712300	579.397955	579.947376	580.404558
580.786790	581.101431	581.352275	581.542514	581.676199

Row 73

581.444887	581.435847	581.426511	581.416769	581.406497
581.395556	581.383789	581.371016	581.357030	581.341591
581.324417	581.305172	581.283454	581.258773	581.230535
581.198010	581.160313	581.116376	581.064948	581.004636
580.934025	580.851945	580.757876	580.649141	580.523173
580.385235	580.240461	580.092093	579.940770	579.785384
579.623811	579.452845	579.273747	579.091530	579.043530
579.167875	579.230532	579.264631	579.284745	579.289511
579.273819	579.235329	579.174646	579.091429	578.992031
579.142270	579.294273	579.456871	579.629804	579.814246
580.006924	580.183284	580.343498	580.489988	580.624221
580.747061	580.859054	580.960606	581.052067	581.133770
581.206047	581.269233	581.323672	581.369711	581.407701
581.437978	581.460849	581.476544	581.485154	581.486515
581.480027	581.464363	581.443726	581.433100	581.406523
581.356827	581.282282	581.181167	581.051730	580.892170
580.700616	580.475095	580.213445	579.913113	579.572289

579.218024	578.866513	578.521945	578.185031	577.848179
577.872385	578.664842	579.243848	579.726517	580.139681
580.493108	580.790797	581.034857	581.227328	581.371084

Row 74

581.458346	581.448144	581.437536	581.426401	581.414599
581.401972	581.388338	581.373487	581.357175	581.339112
581.318953	581.296286	581.270606	581.241298	581.207599
581.168565	581.123025	581.069534	581.006341	580.931397
580.842480	580.737565	580.615581	580.477530	580.327192
580.167528	580.004972	579.844366	579.684895	579.523282
579.357206	579.173069	579.041360	579.141732	579.235323
579.316015	579.372484	579.405103	579.418068	579.411271
579.382156	579.328261	579.248059	579.140648	579.007105
579.155266	579.350608	579.555869	579.766540	579.982555
580.195274	580.383525	580.550927	580.700865	580.835721
580.957123	581.066192	581.163732	581.250347	581.326516
581.392637	581.449053	581.496058	581.533908	581.562812
581.582917	581.594281	581.596828	581.590268	581.573989
581.546883	581.507092	581.454890	581.409480	581.367589
581.309194	581.226298	581.117112	580.979893	580.812914
580.614445	580.382710	580.115824	579.814281	579.498897
579.182799	578.876235	578.591284	578.347152	578.190696
578.287005	578.689419	579.125020	579.530648	579.897322
580.222448	580.504548	580.742871	580.937675	581.090431

Row 75

581.472011	581.460735	581.448956	581.436539	581.423334
581.409166	581.393832	581.377097	581.358683	581.338261
581.315435	581.289727	581.260551	581.227181	581.188716
581.144022	581.091669	581.029846	580.956267	580.868098
580.761962	580.634269	580.482306	580.306590	580.113558
579.915429	579.725896	579.552087	579.386081	579.217745
579.047981	579.145692	579.244585	579.333971	579.414196
579.481238	579.529682	579.557320	579.563914	579.548326
579.508107	579.440101	579.341059	579.209720	579.057149
579.152959	579.393477	579.644809	579.891802	580.134994
580.363370	580.561272	580.734344	580.886911	581.022091
581.142087	581.248451	581.342288	581.424402	581.495389
581.555700	581.605674	581.645564	581.675539	581.695683
581.705979	581.706275	581.696242	581.675295	581.642490
581.596372	581.534778	581.456177	581.379529	581.305753
581.226832	581.133976	581.016634	580.871078	580.695588
580.488489	580.248785	579.983627	579.701930	579.413027
579.127438	578.857557	578.619785	578.439557	578.361002
578.444579	578.688503	579.008171	579.343079	579.666857
579.966966	580.236379	580.471071	580.669224	580.830837

Row 76

581.485950	581.473696	581.460851	581.447276	581.432808
581.417259	581.400411	581.382008	581.361749	581.339274
581.314149	581.285846	581.253719	581.216964	581.174573
581.125268	581.067411	580.998880	580.916894	580.817780
580.696707	580.547573	580.363875	580.142797	579.893279
579.637893	579.404503	579.217669	579.050140	579.089272
579.218938	579.338082	579.438303	579.524079	579.597634
579.657149	579.699559	579.722397	579.723830	579.701744
579.653131	579.573732	579.457558	579.296758	579.087352
579.102373	579.423627	579.730491	580.011812	580.276563
580.516515	580.721224	580.897929	581.051825	581.186599
581.304854	581.408434	581.498650	581.576436	581.642468
581.697223	581.741031	581.774098	581.796516	581.808257
581.809162	581.798909	581.776967	581.742524	581.694401
581.630922	581.549760	581.448773	581.346568	581.246460
581.141649	581.025261	580.890903	580.733446	580.549817
580.339550	580.104926	579.850746	579.583928	579.313218
579.049243	578.805138	578.597987	578.450975	578.393777
578.451872	578.621185	578.865647	579.146513	579.436631
579.718334	579.980079	580.214680	580.418271	580.589501

Row 77

581.500223	581.487090	581.473295	581.458691	581.443108
581.426351	581.408189	581.388355	581.366531	581.342337
581.315316	581.284912	581.250442	581.211057	581.165690
581.112979	581.051164	580.977923	580.890125	580.783419
580.651558	580.485265	580.270962	579.994125	579.663189
579.322940	579.015384	579.025318	579.190561	579.320293
579.436585	579.542209	579.635784	579.717275	579.786499
579.841775	579.880559	579.900239	579.898350	579.872246
579.818540	579.732211	579.604815	579.420141	579.138334
578.996275	579.462407	579.826843	580.135035	580.412735
580.659196	580.867070	581.044888	581.198458	581.331802
581.447738	581.548256	581.634769	581.708279	581.769489
581.818880	581.856759	581.883279	581.898459	581.902175
581.894148	581.873914	581.840786	581.793784	581.731566
581.652318	581.553638	581.433476	581.310832	581.189551
581.063834	580.928032	580.777053	580.606881	580.415119

580.201401	579.967601	579.717840	579.458380	579.197547
578.945791	578.716007	578.524044	578.388872	578.330527
578.363177	578.485842	578.681549	578.926090	579.195319
579.468479	579.729979	579.969663	580.181892	580.364303

Row 78

581.514881	581.500972	581.486344	581.470846	581.454305
581.436519	581.417255	581.396237	581.373141	581.347581
581.319090	581.287104	581.250933	581.209719	581.162387
581.107569	581.043489	580.967794	580.877268	580.767326
580.631033	580.456909	580.223198	579.882870	579.414991
579.077429	579.172302	579.309263	579.438311	579.550672
579.653572	579.748958	579.836131	579.913893	579.980686
580.034260	580.071834	580.090493	580.087432	580.059887
580.004676	579.917168	579.789069	579.603488	579.323985
579.009836	579.554989	579.952684	580.270465	580.548554
580.794734	581.001430	581.177506	581.328892	581.459628
581.572532	581.669595	581.752229	581.821432	581.877895
581.922074	581.954232	581.974470	581.982735	581.978818
581.962337	581.932717	581.889146	581.830524	581.755394
581.661859	581.547489	581.411023	581.272480	581.134413
580.991838	580.840007	580.674699	580.492602	580.291710
580.071685	579.834121	579.582715	579.323342	579.064072
578.815130	578.588816	578.399272	578.261765	578.190769
578.196619	578.282509	578.443940	578.667945	578.932000
579.210122	579.481507	579.733128	579.958182	580.153957

Row 79

581.529963	581.515383	581.500042	581.483788	581.466447
581.447817	581.427665	581.405716	581.381648	581.355078
581.325548	581.292507	581.255281	581.213044	581.164766
581.109146	581.044516	580.968680	580.878672	580.770304
580.637310	580.469391	580.246709	579.915679	579.583644
579.508240	579.529925	579.600177	579.688044	579.778733
579.868320	579.955154	580.037435	580.113065	580.179563
580.233947	580.272837	580.292795	580.290708	580.263984
580.210329	580.126906	580.008643	579.845155	579.614670
579.267220	579.735795	580.122657	580.423891	580.687092
580.924748	581.125704	581.297153	581.444498	581.571437
581.680569	581.773744	581.852282	581.917113	581.968872
582.007964	582.034597	582.048812	582.050486	582.039332
582.014886	581.976478	581.923203	581.853869	581.766942
581.660473	581.532020	581.382277	581.231809	581.080697
580.924626	580.759499	580.581658	580.388177	580.177189
579.948231	579.702595	579.443640	579.177044	578.910872
578.655381	578.422483	578.224877	578.074854	577.982971
577.957300	578.005057	578.136225	578.354760	578.635335
578.937394	579.231934	579.503843	579.746562	579.958160

Row 80

581.545500	581.530355	581.514421	581.497548	581.479565
581.460274	581.439447	581.416817	581.392071	581.364843
581.334696	581.301108	581.263451	581.220960	581.172700
581.117508	581.053921	580.980075	580.893538	580.791074
580.668272	580.519081	580.336193	580.121603	579.935994
579.846065	579.833037	579.867214	579.927122	579.999633
580.077957	580.158290	580.237732	580.313435	580.382185
580.440202	580.483227	580.506961	580.507774	580.483348
580.432818	580.356219	580.253529	580.123986	579.966667
579.779290	580.030530	580.337320	580.593938	580.828101
581.048805	581.240024	581.404326	581.545998	581.668080
581.772769	581.861656	581.935890	581.996281	582.043374
582.077498	582.098797	582.107245	582.102652	582.084661
582.052735	582.006129	581.943866	581.864683	581.766993
581.648808	581.507681	581.348312	581.189341	581.028385
580.861673	580.685558	580.496700	580.292285	580.070317
579.829973	579.572054	579.299514	579.017953	578.735821
578.464041	578.214891	578.000303	577.830022	577.710406
577.645037	577.640066	577.724714	577.957453	578.293528
578.647422	578.981533	579.282875	579.548073	579.777715

Row 81

581.561512	581.545906	581.529497	581.512140	581.493670
581.473897	581.452601	581.429530	581.404390	581.376837
581.346469	581.312809	581.275294	581.233249	581.185865
581.132168	581.070976	581.000852	580.920059	580.826539
580.718026	580.592680	580.451532	580.305644	580.183214
580.110280	580.088307	580.105439	580.148943	580.209124
580.279562	580.355969	580.434993	580.513379	580.587382
580.652398	580.700690	580.726951	580.730588	580.710862
580.666917	580.598050	580.509918	580.412036	580.319755
580.278774	580.383578	580.572643	580.770920	580.967992
581.164629	581.343421	581.498781	581.633568	581.749986
581.849709	581.933994	582.003764	582.059673	582.102150
582.131435	582.147593	582.150531	582.139994	582.115562
582.076633	582.022402	581.951833	581.863612	581.756107
581.627304	581.474741	581.310404	581.145836	580.977793

580.802925	580.617878	580.419418	580.204595	579.970979
579.717025	579.442644	579.150058	578.844774	578.536176
578.237014	577.961428	577.721884	577.525914	577.374253
577.261251	577.176135	577.114883	577.422331	577.900499
578.343998	578.735141	579.074179	579.365561	579.614549

Row 82

581.578009	581.562042	581.545272	581.527562	581.508753
581.488667	581.467099	581.443814	581.418542	581.390972
581.360742	581.327436	581.290565	581.249564	581.203773
581.152430	581.094659	581.029480	580.955847	580.872778
580.779701	580.677289	580.569254	580.464913	580.379030
580.324445	580.304785	580.316021	580.351429	580.404665
580.470757	580.545940	580.627074	580.710966	580.792806
580.858692	580.904967	580.931373	580.937666	580.923685
580.889512	580.835851	580.764889	580.686758	580.627594
580.615864	580.676498	580.795223	580.941998	581.101634
581.269286	581.434238	581.579763	581.706984	581.817250
581.911683	581.991175	582.056399	582.107832	582.145774
582.170363	582.181585	582.179274	582.163115	582.132629
582.087161	582.025854	581.947623	581.851116	581.734665
581.596231	581.435464	581.269971	581.102252	580.929511
580.748721	580.556686	580.350111	580.125677	579.880186
579.610852	579.315970	578.996207	578.656549	578.307984
577.967087	577.652677	577.380405	577.156481	576.973915
576.814239	576.643605	576.363450	576.744652	577.474591
578.042205	578.503318	578.884779	579.203573	579.471552

Row 83

581.594993	581.578761	581.561740	581.543798	581.524790
581.504550	581.482890	581.459597	581.434431	581.407116
581.377341	581.344752	581.308946	581.269472	581.225827
581.177462	581.123798	581.064270	580.998416	580.926060
580.847668	580.764983	580.681930	580.605273	580.543664
580.504480	580.490941	580.502098	580.534722	580.585063
580.649771	580.726092	580.811622	580.903127	580.983573
581.046353	581.091265	581.118213	581.127231	581.118582
581.092957	581.051854	580.998268	580.937812	580.888005
580.876334	580.912142	580.990501	581.098282	581.224700
581.363675	581.510606	581.646263	581.765770	581.869734
581.958773	582.033424	582.094113	582.141137	582.174662
582.194723	582.201224	582.193932	582.172472	582.136312
582.084750	582.016887	581.931600	581.827502	581.702899
581.555725	581.393229	581.228489	581.059667	580.884330
580.699690	580.502620	580.289645	580.056898	579.800081
579.514530	579.195721	578.840950	578.453075	578.045207
577.641231	577.269782	576.955557	576.706655	576.503212
576.309839	576.088220	575.779479	576.042232	577.064067
577.768744	578.301780	578.724128	579.067830	579.352178

Row 84

581.612457	581.596051	581.578879	581.560820	581.541741
581.521491	581.499902	581.476786	581.451934	581.425110
581.396054	581.364478	581.330068	581.292486	581.251376
581.206388	581.157203	581.103595	581.045534	580.983364
580.918072	580.851673	580.787588	580.730681	580.686504
580.659797	580.653180	580.666952	580.699831	580.749899
580.815270	580.894380	580.985949	581.078500	581.155215
581.215634	581.259646	581.287290	581.298798	581.294693
581.275963	581.244347	581.202742	581.155655	581.109916
581.089813	581.106720	581.157889	581.236330	581.334787
581.447761	581.571490	581.697248	581.809343	581.907165
581.990913	582.060818	582.117080	582.159825	582.189094
582.204822	582.206835	582.194834	582.168390	582.126925
582.069696	581.995767	581.903985	581.792938	581.660905
581.508334	581.349900	581.187402	581.019193	580.843136
580.656626	580.456565	580.239259	580.000221	579.733849
579.432992	579.088670	578.691178	578.236212	577.738220
577.235187	576.773906	576.400908	576.142692	575.945405
575.733692	575.478117	575.197672	575.368731	576.729190
577.556467	578.148685	578.602533	578.964256	579.259842

Row 85

581.630386	581.613890	581.596660	581.578588	581.559554
581.539423	581.518048	581.495269	581.470906	581.444767
581.416643	581.386312	581.353541	581.318098	581.279763
581.238353	581.193759	581.146011	581.095369	581.042465
580.988484	580.935367	580.885934	580.843765	580.812697
580.796055	580.795998	580.813357	580.847955	580.899127
580.966196	581.048788	581.145402	581.234290	581.308142
581.366785	581.410197	581.438523	581.452113	581.451610
581.438076	581.413163	581.379307	581.339816	581.298620
581.268274	581.269447	581.300245	581.355921	581.431190
581.521358	581.622618	581.731801	581.837118	581.929203
582.007944	582.073326	582.125358	582.164020	582.189236
582.200853	582.198624	582.182192	582.151078	582.104664
582.042171	581.962636	581.864880	581.747468	581.609093

581.460565	581.307139	581.148036	580.981891	580.806808
580.620350	580.419467	580.200305	579.957861	579.685331
579.372939	579.005899	578.561713	578.013882	577.369874
576.700759	576.078182	575.585703	575.387682	575.275571
575.042972	575.109817	575.171500	575.093671	576.536967
577.436844	578.060635	578.528967	578.897731	579.197182

Row 86

581.648760	581.632250	581.615047	581.597055	581.578166
581.558267	581.537229	581.514919	581.491191	581.465891
581.438860	581.409938	581.378968	581.345811	581.310360
581.272568	581.232488	581.190322	581.146507	581.101809
581.057436	581.015132	580.977195	580.946341	580.925391
580.916840	580.922521	580.943497	580.980231	581.032893
581.101735	581.187418	581.285068	581.371062	581.442753
581.500067	581.543061	581.571952	581.587147	581.589312
581.579445	581.558971	581.529796	581.494259	581.454861
581.417446	581.405603	581.420484	581.458118	581.514237
581.584792	581.666178	581.755156	581.848563	581.935494
582.009651	582.070839	582.118917	582.153745	582.175151
582.182904	582.176693	582.156110	582.120635	582.069613
582.002237	581.917521	581.814265	581.691142	581.555876
581.414270	581.266353	581.111540	580.948688	580.776115
580.591571	580.392122	580.173921	579.931756	579.658170
579.341677	578.962714	578.483026	577.816395	576.896648
575.926131	574.933088	574.643995	575.189123	575.539545
575.686189	575.754555	575.748083	575.589361	576.529164
577.431593	578.048606	578.508781	578.870814	579.165363

Row 87

581.667551	581.651096	581.633995	581.616164	581.597510
581.577936	581.557338	581.535605	581.512623	581.488278
581.462454	581.435048	581.405968	581.375155	581.342593
581.308341	581.272561	581.235571	581.197898	581.160348
581.124065	581.090572	581.061752	581.039730	581.026677
581.024567	581.034990	581.059099	581.097707	581.151513
581.221394	581.308764	581.405487	581.489359	581.559445
581.615763	581.658438	581.687728	581.704056	581.708047
581.700577	581.682802	581.656157	581.622263	581.582715
581.540465	581.518528	581.521052	581.544364	581.584768
581.638705	581.702852	581.774094	581.849407	581.925713
581.995789	582.053191	582.097654	582.128945	582.146816
582.150971	582.141047	582.116595	582.077058	582.021752
581.949848	581.860340	581.752469	581.633029	581.505578
581.370765	581.228670	581.078843	580.920322	580.751638
580.570763	580.374992	580.160712	579.922951	579.654518
579.344229	578.972775	578.500790	577.815992	576.878070
576.326593	576.031488	575.960591	576.059418	576.189788
576.278112	576.324914	576.319697	576.210735	576.715951
577.549417	578.114573	578.541760	578.882777	579.163589

Row 88

581.686730	581.670389	581.653455	581.635855	581.617510
581.598341	581.578262	581.557189	581.535038	581.511726
581.487181	581.461345	581.434186	581.405704	581.375958
581.345079	581.313307	581.281021	581.248785	581.217389
581.187880	581.161574	581.140024	581.124939	581.118050
581.120972	581.135100	581.161584	581.201402	581.255525
581.325158	581.412075	581.507340	581.589695	581.658609
581.714177	581.756577	581.786089	581.803120	581.808229
581.802146	581.785777	581.760170	581.726431	581.685564
581.639576	581.610713	581.604050	581.616182	581.643845
581.683896	581.733330	581.789256	581.848838	581.909214
581.967440	582.020177	582.061407	582.089491	582.104124
582.104963	582.091603	582.063559	582.020248	581.960963
581.884856	581.793506	581.691250	581.579499	581.459241
581.331021	581.194934	581.050628	580.897305	580.733712
580.558092	580.368083	580.160532	579.931153	579.673932
579.380034	579.035850	578.620205	578.111096	577.568437
577.144151	576.877334	576.752401	576.733223	576.765716
576.809096	576.847447	576.873979	576.882353	577.143017
577.781210	578.247888	578.620999	578.929285	579.189014

Row 89

581.706261	581.690089	581.673377	581.656065	581.638090
581.619386	581.599890	581.579538	581.558272	581.536041
581.512808	581.488556	581.463297	581.437082	581.410020
581.382295	581.354191	581.326117	581.298637	581.272495
581.248630	581.228177	581.212429	581.202785	581.200658
581.207396	581.224220	581.252213	581.292379	581.345756
581.413607	581.497666	581.591238	581.672549	581.740622
581.795621	581.837759	581.867323	581.884692	581.890345
581.884873	581.868964	581.843365	581.808810	581.765907
581.717057	581.684416	581.671424	581.675101	581.692620
581.721240	581.758295	581.801175	581.847297	581.894072
581.938878	581.979077	582.012070	582.035407	582.046898
582.044709	582.028188	581.996825	581.950466	581.890061

581.816712	581.731667	581.636142	581.531180	581.417552
581.295702	581.165722	581.027339	580.879912	580.722413
580.553393	580.370920	580.172462	579.954711	579.713338
579.442726	579.136092	578.787784	578.403720	578.021798
577.700187	577.470738	577.334202	577.273439	577.263085
577.281506	577.318006	577.374180	577.474822	577.708407
578.071551	578.423763	578.733812	579.003109	579.237153

Row 90

581.726110	581.710149	581.693705	581.676729	581.659170
581.640980	581.622110	581.602518	581.582170	581.561041
581.539123	581.516432	581.493016	581.468962	581.444416
581.419594	581.394801	581.370453	581.347091	581.325402
581.306218	581.290513	581.279375	581.273960	581.275440
581.284946	581.303530	581.332167	581.371783	581.423336
581.487929	581.566955	581.657721	581.738352	581.805842
581.860403	581.902277	581.931746	581.949153	581.954901
581.949454	581.933321	581.907019	581.871010	581.825627
581.775611	581.741956	581.725103	581.722658	581.732277
581.751633	581.778411	581.810312	581.845036	581.880283
581.913752	581.943162	581.966312	581.981158	581.985922
581.979197	581.960039	581.928000	581.883116	581.825826
581.756849	581.677052	581.587311	581.488402	581.380916
581.265209	581.141368	581.009195	580.868195	580.717571
580.556203	580.382625	580.194988	579.991036	579.768137
579.523546	579.255320	578.964902	578.662277	578.370204
578.117314	577.923201	577.792660	577.719161	577.690785
577.696556	577.731230	577.798447	577.914321	578.101614
578.349675	578.613865	578.865732	579.095852	579.302712

Row 91

581.746237	581.730524	581.714385	581.697782	581.680676
581.663031	581.644816	581.626007	581.606588	581.586557
581.565932	581.544753	581.523095	581.501071	581.478850
581.456665	581.434827	581.413741	581.393917	581.375974
581.360646	581.348769	581.341260	581.339082	581.343210
581.354586	581.374105	581.402596	581.440848	581.489640
581.549793	581.622204	581.707251	581.787487	581.854591
581.908815	581.950416	581.979669	581.996878	582.002376
581.996521	581.979675	581.952179	581.914296	581.866161
581.818338	581.785767	581.767029	581.760389	581.764007
581.775972	581.794327	581.817086	581.842244	581.867789
581.891719	581.912074	581.926978	581.934711	581.933780
581.922992	581.901512	581.868888	581.825033	581.770175
581.704772	581.629414	581.544723	581.451272	581.349512
581.239728	581.122006	580.996218	580.862014	580.718819
580.565837	580.402056	580.226281	580.037203	579.833585
579.614692	579.381203	579.136856	578.890489	578.656484
578.451148	578.286766	578.168322	578.094254	578.059410
578.058565	578.089343	578.153966	578.258906	578.408877
578.595893	578.800460	579.005078	579.199847	579.380496

Row 92

581.766605	581.751169	581.735364	581.719160	581.702531
581.685452	581.667907	581.649887	581.631392	581.612439
581.593064	581.573328	581.553323	581.533181	581.513083
581.493267	581.474040	581.455787	581.438975	581.424161
581.411987	581.403167	581.398476	581.398716	581.404695
581.417193	581.436944	581.464626	581.500854	581.546188
581.601126	581.666061	581.741160	581.820278	581.887152
581.941117	581.982439	582.011381	582.028212	582.033202
582.026621	582.008716	581.979688	581.939656	581.890304
581.848456	581.818306	581.799128	581.789804	581.788977
581.795136	581.806666	581.821888	581.839083	581.856515
581.872458	581.885230	581.893233	581.895008	581.889286
581.875043	581.851533	581.818312	581.775215	581.722331
581.659931	581.588409	581.508203	581.419733	581.323343
581.219267	581.107597	580.988273	580.861079	580.725647
580.581475	580.427962	580.264471	580.090446	579.905646
579.710538	579.506957	579.298976	579.093599	578.900431
578.729716	578.589606	578.484418	578.414708	578.378664
578.374000	578.399560	578.456033	578.545077	578.666271
578.813719	578.976777	579.144589	579.309243	579.466067

Row 93

581.787174	581.772038	581.756588	581.740803	581.724665
581.708163	581.691290	581.674051	581.656461	581.638549
581.620368	581.601992	581.583525	581.565109	581.546929
581.529222	581.512282	581.496466	581.482201	581.469979
581.460358	581.453950	581.451405	581.453389	581.460566
581.473571	581.492991	581.519346	581.553076	581.594523
581.643884	581.701138	581.765876	581.836988	581.903761
581.957532	581.998573	582.027136	582.043454	582.047747
582.040211	582.021001	581.990214	581.947915	581.904554
581.868981	581.841909	581.823234	581.812346	581.808308
581.809967	581.816025	581.825089	581.835705	581.846394
581.855680	581.862126	581.864369	581.861165	581.851429

581.834272	581.809030	581.775270	581.732787	581.681572
581.621772	581.553641	581.477484	581.393608	581.302282
581.203704	581.097977	580.985108	580.864997	580.737461
580.602253	580.459110	580.307835	580.148421	579.981260
579.807445	579.629184	579.450210	579.275957	579.113153
578.968712	578.848349	578.755637	578.691914	578.656935
578.649836	578.669955	578.717098	578.790933	578.889624
579.008675	579.141351	579.280483	579.420095	579.555987

Row 94

581.807909	581.793089	581.778007	581.762651	581.747012
581.731087	581.714879	581.698404	581.681688	581.664772
581.647717	581.630608	581.613556	581.596708	581.580247
581.564401	581.549447	581.535713	581.523581	581.513487
581.505911	581.501374	581.500419	581.503596	581.511445
581.524470	581.543124	581.567783	581.598727	581.636102
581.679870	581.729715	581.784893	581.843990	581.904596
581.958233	581.998999	582.027134	582.042844	582.046305
582.037651	582.016967	581.984313	581.946932	581.912286
581.882514	581.858665	581.841024	581.829351	581.823045
581.821257	581.822968	581.827038	581.832257	581.837377
581.841145	581.842336	581.839791	581.832445	581.819367
581.799784	581.773100	581.738907	581.696975	581.647237
581.589754	581.524684	581.452236	581.372640	581.286108
581.192818	581.092890	580.986385	580.873312	580.753637
580.627321	580.494368	580.354901	580.209278	580.058256
579.903199	579.746312	579.590821	579.440957	579.301626
579.177755	579.073534	578.991877	578.934311	578.901259
578.892510	578.907624	578.946025	579.006684	579.087529
579.185051	579.294563	579.411036	579.529951	579.647773

Row 95

581.828772	581.814278	581.799574	581.784651	581.769510
581.754154	581.738597	581.722860	581.706979	581.691004
581.675002	581.659063	581.643303	581.627867	581.612932
581.598716	581.585473	581.573502	581.563143	581.554777
581.548816	581.545699	581.545879	581.549804	581.557907
581.570579	581.588154	581.610883	581.638910	581.672230
581.710636	581.753636	581.800337	581.849291	581.898325
581.944447	581.983841	582.011522	582.026559	582.029093
582.019208	581.998418	581.971930	581.943474	581.915904
581.891154	581.870348	581.853968	581.842014	581.834138
581.829733	581.828014	581.828063	581.828884	581.829432
581.828651	581.825502	581.818998	581.808230	581.792397
581.770823	581.742978	581.708481	581.667096	581.618720
581.563358	581.501101	581.432096	581.356515	581.274537
581.186324	581.092015	580.991723	580.885540	580.773556
580.655893	580.532748	580.404464	580.271623	580.135165
579.996519	579.857732	579.721530	579.591247	579.470582
579.363192	579.272256	579.200141	579.148309	579.117414
579.107529	579.118331	579.149141	579.198777	579.265318
579.345983	579.437311	579.535597	579.637368	579.739711

Row 96

581.849729	581.835568	581.821243	581.806752	581.792102
581.777302	581.762373	581.747343	581.732253	581.717159
581.702133	581.687267	581.672675	581.658501	581.644912
581.632111	581.620331	581.609842	581.600942	581.593961
581.589252	581.587184	581.588128	581.592447	581.600481
581.612525	581.628813	581.649493	581.674601	581.704022
581.737447	581.774300	581.813667	581.854204	581.894075
581.930965	581.962262	581.985462	581.998754	582.001562
581.994747	581.980333	581.960926	581.939121	581.917111
581.896521	581.878403	581.863307	581.851373	581.842426
581.836046	581.831636	581.828468	581.825726	581.822544
581.818036	581.811325	581.801572	581.788002	581.769924
581.746750	581.718009	581.683351	581.642543	581.595465
581.542087	581.482459	581.416681	581.344891	581.267242
581.183893	581.094999	581.000714	580.901199	580.796638
580.687267	580.573420	580.455578	580.334444	580.211025
580.086710	579.963332	579.843182	579.728923	579.623418
579.529471	579.449549	579.385582	579.338864	579.310089
579.299434	579.306654	579.331094	579.371636	579.426616
579.493809	579.570563	579.654048	579.741542	579.830653

Row 97

581.870749	581.856921	581.842973	581.828909	581.814738
581.800476	581.786149	581.771789	581.757442	581.743166
581.729037	581.715145	581.701605	581.688549	581.676138
581.664558	581.654021	581.644764	581.637051	581.631165
581.627406	581.626080	581.627491	581.631927	581.639650
581.650875	581.665754	581.684353	581.706630	581.732400
581.761298	581.792733	581.825840	581.859439	581.892027
581.921833	581.946981	581.965769	581.977013	581.980341
581.976291	581.966170	581.951731	581.934814	581.917074
581.899821	581.883970	581.870062	581.858305	581.848634
581.840768	581.834256	581.828526	581.822915	581.816710

581.809170	581.799557	581.787162	581.771323	581.751446
581.727019	581.697628	581.662953	581.622775	581.576965
581.525477	581.468332	581.405605	581.337407	581.263880
581.185178	581.101474	581.012953	580.919828	580.822348
580.720834	580.615702	580.507512	580.397021	580.285231
580.173438	580.063259	579.956618	579.855671	579.762684
579.679855	579.609138	579.552105	579.509868	579.483071
579.471921	579.476227	579.495408	579.528485	579.574058
579.630335	579.695231	579.766530	579.842062	579.919856

Row 98

581.891799	581.878304	581.864728	581.851079	581.837372
581.823626	581.809870	581.796141	581.782486	581.768966
581.755656	581.742644	581.730041	581.717972	581.706586
581.696051	581.686558	581.678318	581.671559	581.666523
581.663463	581.662631	581.664272	581.668613	581.675850
581.686132	581.699547	581.716101	581.735696	581.758107
581.782953	581.809666	581.837464	581.865344	581.892094
581.916360	581.936774	581.952144	581.961660	581.965063
581.962698	581.955429	581.944456	581.931093	581.916574
581.901930	581.887926	581.875051	581.863533	581.853373
581.844387	581.836239	581.828478	581.820572	581.811933
581.801946	581.789992	581.775472	581.757822	581.736532
581.711161	581.681343	581.646792	581.607306	581.562757
581.513092	581.458316	581.398488	581.333705	581.264099
581.189827	581.111072	581.028045	580.940994	580.850214
580.756076	580.659045	580.559718	580.458856	580.357419
580.256592	580.157787	580.062625	579.972875	579.890359
579.816833	579.753867	579.702746	579.664408	579.639420
579.627984	579.629950	579.644826	579.671780	579.709653
579.756993	579.812134	579.873308	579.938757	580.006851

Row 99

581.912854	581.899686	581.886473	581.873227	581.859964
581.846709	581.833492	581.820352	581.807339	581.794512
581.781944	581.769723	581.757951	581.746746	581.736244
581.726598	581.717977	581.710565	581.704561	581.700170
581.697602	581.697064	581.698752	581.702840	581.709469
581.718739	581.730686	581.745273	581.762369	581.781732
581.802986	581.825607	581.848913	581.872061	581.894082
581.913933	581.930602	581.943227	581.951236	581.954433
581.953039	581.947638	581.939060	581.928248	581.916120
581.903475	581.890934	581.878916	581.867641	581.857148
581.847317	581.837897	581.828536	581.818804	581.808221
581.796278	581.782456	581.766250	581.747182	581.724816
581.698771	581.668727	581.634432	581.595702	581.552419
581.504526	581.452025	581.394962	581.333430	581.267553
581.197493	581.123439	581.045619	580.964304	580.879819
580.792561	580.703016	580.611787	580.519614	580.427394
580.336194	580.247245	580.161920	580.081684	580.008022
579.942359	579.885970	579.839910	579.804963	579.781617
579.770056	579.770162	579.781525	579.803453	579.834991
579.874956	579.922003	579.974697	580.031604	580.091363

Row 100

581.933887	581.921038	581.908177	581.895318	581.882480
581.869689	581.856978	581.844385	581.831961	581.819765
581.807868	581.796352	581.785313	581.774860	581.765116
581.756219	581.748319	581.741575	581.736158	581.732240
581.729997	581.729594	581.731187	581.734906	581.740852
581.749080	581.759592	581.772320	581.787116	581.803734
581.821823	581.840910	581.860407	581.879617	581.897761
581.914033	581.927667	581.938027	581.944689	581.947501
581.946601	581.942384	581.935433	581.926425	581.916043
581.904899	581.893485	581.882152	581.871095	581.860369
581.849897	581.839491	581.828875	581.817703	581.805583
581.792092	581.776800	581.759282	581.739131	581.715978
581.689495	581.659404	581.625485	581.587575	581.545566
581.499407	581.449097	581.394680	581.336244	581.273911
581.207844	581.138238	581.065332	580.989408	580.910804
580.829929	580.747271	580.663420	580.579077	580.495067
580.412346	580.331984	580.255150	580.183067	580.116962
580.058003	580.007236	579.965532	579.933544	579.911688
579.900124	579.898762	579.907265	579.925059	579.951360
579.985201	580.025484	580.071035	580.120669	580.173245

Row 101

581.954875	581.942337	581.929815	581.917325	581.904890
581.892535	581.880294	581.868208	581.856324	581.844700
581.833404	581.822513	581.812117	581.802314	581.793217
581.784947	581.777635	581.771421	581.766449	581.762864
581.760809	581.760418	581.761810	581.765082	581.770299
581.777487	581.786620	581.797613	581.810309	581.824473
581.839779	581.855813	581.872072	581.887980	581.902910
581.916231	581.927356	581.935801	581.941244	581.943558
581.942826	581.939317	581.933439	581.925681	581.916549
581.906508	581.895942	581.885137	581.874259	581.863364

581.852404	581.841235	581.829641	581.817343	581.804021
581.789325	581.772898	581.754381	581.733434	581.709742
581.683024	581.653043	581.619607	581.582573	581.541849
581.497390	581.449196	581.397313	581.341826	581.282857
581.220569	581.155159	581.086871	581.015991	580.942862
580.867887	580.791548	580.714404	580.637114	580.560428
580.485195	580.412350	580.342891	580.277849	580.218246
580.165049	580.119122	580.081189	580.051796	580.031293
580.019822	580.017311	580.023486	580.037874	580.059828
580.088556	580.123154	580.162653	580.206069	580.252439

Row 102

581.975799	581.963560	581.951362	581.939224	581.927167
581.915221	581.903416	581.891795	581.880403	581.869295
581.858536	581.848197	581.838361	581.829118	581.820566
581.812816	581.805980	581.800178	581.795533	581.792165
581.790190	581.789715	581.790830	581.793603	581.798074
581.804244	581.812070	581.821458	581.832250	581.844224
581.857089	581.870481	581.883974	581.897091	581.909327
581.920180	581.929193	581.935990	581.940318	581.942068
581.941284	581.938145	581.932941	581.926023	581.917763
581.908511	581.898567	581.888154	581.877411	581.866390
581.855055	581.843300	581.830951	581.817783	581.803535
581.787918	581.770635	581.751386	581.729885	581.705865
581.679087	581.649350	581.616489	581.580382	581.540951
581.498159	581.452012	581.402557	581.349878	581.294098
581.235378	581.173917	581.109956	581.043782	580.975730
580.906197	580.835641	580.764591	580.693654	580.623510
580.554913	580.488678	580.425663	580.366740	580.312770
580.264559	580.222829	580.188182	580.161077	580.141810
580.130502	580.127102	580.131383	580.142957	580.161291
580.185729	580.215526	580.249876	580.287955	580.328949

Row 103

581.996640	581.984687	581.972799	581.960992	581.949292
581.937725	581.926323	581.915127	581.904181	581.893537
581.883255	581.873402	581.864051	581.855285	581.847192
581.839867	581.833410	581.827921	581.823505	581.820261
581.818282	581.817650	581.818434	581.820679	581.824404
581.829594	581.836194	581.844105	581.853176	581.863202
581.873922	581.885022	581.896140	581.906881	581.916834
581.925597	581.932806	581.938164	581.941466	581.942616
581.941631	581.938629	581.933810	581.927427	581.919753
581.911050	581.901545	581.891414	581.880765	581.869643
581.858023	581.845819	581.832895	581.819066	581.804120
581.787818	581.769912	581.750154	581.728302	581.704132
581.677444	581.648065	581.615858	581.580719	581.542585
581.501427	581.457259	581.410129	581.360123	581.307362
581.252007	581.194253	581.134338	581.072542	581.009191

580.944664	580.879396	580.813880	580.748670	580.684381
580.621681	580.561282	580.503924	580.450353	580.401294
580.357427	580.319359	580.287594	580.262518	580.244383
580.233295	580.229214	580.231956	580.241200	580.256507
580.277334	580.303059	580.333011	580.366494	580.402817

Row 104

582.017383	582.005704	581.994108	581.982614	581.971246
581.960030	581.949000	581.938191	581.927648	581.917419
581.907559	581.898129	581.889197	581.880836	581.873124
581.866144	581.859982	581.854725	581.850457	581.847262
581.845212	581.844372	581.844789	581.846493	581.849486
581.853742	581.859200	581.865759	581.873279	581.881571
581.890405	581.899509	581.908577	581.917280	581.925280
581.932251	581.937900	581.941987	581.944343	581.944880
581.943596	581.940565	581.935925	581.929855	581.922553
581.914213	581.905006	581.895066	581.884477	581.873273
581.861435	581.848894	581.835539	581.821220	581.805763
581.788970	581.770636	581.750555	581.728523	581.704355
581.677880	581.648956	581.617467	581.583328	581.546489
581.506933	581.464677	581.419773	581.372308	581.322403
581.270215	581.215936	581.159797	581.102067	581.043060
580.983135	580.922698	580.862206	580.802164	580.743125
580.685681	580.630455	580.578088	580.529220	580.484469
580.444410	580.409556	580.380333	580.357068	580.339975
580.329147	580.324554	580.326047	580.333361	580.346131
580.363905	580.386164	580.412344	580.441858	580.474114

Row 105

582.038014	582.026595	582.015275	582.004074	581.993015
581.982125	581.971433	581.960977	581.950796	581.940936
581.931447	581.922386	581.913813	581.905793	581.898395
581.891692	581.885755	581.880659	581.876475	581.873269
581.871098	581.870012	581.870042	581.871203	581.873488
581.876863	581.881262	581.886589	581.892711	581.899460
581.906632	581.913992	581.921281	581.928222	581.934536
581.939957	581.944244	581.947199	581.948680	581.948606
581.946961	581.943789	581.939180	581.933260	581.926171
581.918055	581.909037	581.899218	581.888661	581.877390
581.865388	581.852598	581.838930	581.824261	581.808446
581.791323	581.772723	581.752473	581.730404	581.706362
581.680205	581.651814	581.621095	581.587979	581.552430
581.514438	581.474027	581.431253	581.386203	581.338996
581.289786	581.238760	581.186138	581.132180	581.077183
581.021484	580.965461	580.909533	580.854160	580.799838
580.747091	580.696467	580.648523	580.603809	580.562855
580.526153	580.494137	580.467170	580.445529	580.429399
580.418861	580.413894	580.414375	580.420086	580.430723
580.445910	580.465209	580.488146	580.514221	580.542929

Streamlines

Number of Streamlines = 255

Streamline #1

Coordinates of Streamline:
Start x: 9981.210000 y: 9517.990000
End x: 10053.934143 y: 9493.674895

Streamline #2

Coordinates of Streamline:
Start x: 9984.975556 y: 9522.485758
End x: 10057.256617 y: 9496.503620

Streamline #3

Coordinates of Streamline:
Start x: 9988.741111 y: 9526.981515
End x: 10060.407877 y: 9499.135551

Streamline #4

Coordinates of Streamline:
Start x: 9992.506667 y: 9531.477273
End x: 10063.422208 y: 9501.678414

Streamline #5

Coordinates of Streamline:
Start x: 9996.272222 y: 9535.973030
End x: 10066.327543 y: 9504.197345

Streamline #6

Coordinates of Streamline:
Start x: 10000.037778 y: 9540.468788
End x: 10069.146477 y: 9506.737029

Streamline #7

Coordinates of Streamline:
Start x: 10003.803333 y: 9544.964545
End x: 10071.899481 y: 9509.335615

Streamline #8

Coordinates of Streamline:
Start x: 10007.568889 y: 9549.460303
End x: 10074.638961 y: 9512.073374

Streamline #9

Coordinates of Streamline:
Start x: 10011.334444 y: 9553.956061
End x: 10077.810260 y: 9515.485706

Streamline #10

Coordinates of Streamline:
Start x: 10015.100000 y: 9558.451818
End x: 10081.226513 y: 9519.291650

Streamline #11

Coordinates of Streamline:
Start x: 10018.865556 y: 9562.947576
End x: 10084.580232 y: 9523.066393

Streamline #12

Coordinates of Streamline:
Start x: 10022.631111 y: 9567.443333
End x: 10087.962572 y: 9526.914458

Streamline #13

Coordinates of Streamline:
Start x: 10026.396667 y: 9571.939091
End x: 10091.371689 y: 9530.824874

Streamline #14

Coordinates of Streamline:
Start x: 10030.162222 y: 9576.434848
End x: 10094.805501 y: 9534.789091

Streamline #15

Coordinates of Streamline:
Start x: 10033.927778 y: 9580.930606
End x: 10098.262957 y: 9538.801519

Streamline #16

Coordinates of Streamline:
Start x: 10037.693333 y: 9585.426364
End x: 10101.743430 y: 9542.858129

Streamline #17

Coordinates of Streamline:
Start x: 10041.458889 y: 9589.922121
End x: 10105.246537 y: 9546.955879

Streamline #18

Coordinates of Streamline:
Start x: 10045.224444 y: 9594.417879
End x: 10101.094133 y: 9556.885339

Streamline #19

Coordinates of Streamline:
Start x: 10048.990000 y: 9598.913636
End x: 10104.658201 y: 9561.080229

Streamline #20

Coordinates of Streamline:
Start x: 10052.755556 y: 9603.409394
End x: 10108.239869 y: 9565.304262

Streamline #21

Coordinates of Streamline:
Start x: 10056.521111 y: 9607.905152
End x: 10111.837144 y: 9569.553659

Streamline #22

Coordinates of Streamline:
Start x: 10060.286667 y: 9612.400909
End x: 10115.447139 y: 9573.823658

Streamline #23

Coordinates of Streamline:
Start x: 10064.052222 y: 9616.896667
End x: 10119.065357 y: 9578.107549

Streamline #24

Coordinates of Streamline:
Start x: 10067.817778 y: 9621.392424
End x: 10122.685230 y: 9582.396092

Streamline #25

Coordinates of Streamline:
Start x: 10071.583333 y: 9625.888182
End x: 10126.304002 y: 9586.685340

Streamline #26

Coordinates of Streamline:
Start x: 10075.348889 y: 9630.383939
End x: 10129.914231 y: 9590.965401

Streamline #27

Coordinates of Streamline:
Start x: 10079.114444 y: 9634.879697
End x: 10133.494946 y: 9595.209374

Streamline #28

Coordinates of Streamline:
Start x: 10082.880000 y: 9639.375455
End x: 10137.069661 y: 9599.448893

Streamline #29

Coordinates of Streamline:
Start x: 10086.645556 y: 9643.871212
End x: 10140.656361 y: 9603.707074

Streamline #30

Coordinates of Streamline:
Start x: 10090.411111 y: 9648.366970
End x: 10144.263304 y: 9607.993835

Streamline #31

Coordinates of Streamline:
Start x: 10094.176667 y: 9652.862727
End x: 10147.895200 y: 9612.314423

Streamline #32

Coordinates of Streamline:
Start x: 10097.942222 y: 9657.358485
End x: 10151.555162 y: 9616.672069

Streamline #33

Coordinates of Streamline:
Start x: 10101.707778 y: 9661.854242
End x: 10155.245393 y: 9621.068954

Streamline #34

Coordinates of Streamline:
Start x: 10105.473333 y: 9666.350000
End x: 10158.967433 y: 9625.506552

Streamline #35

Coordinates of Streamline:
Start x: 10109.238889 y: 9670.845758
End x: 10162.722134 y: 9629.985656

Streamline #36

Coordinates of Streamline:
Start x: 10113.004444 y: 9675.341515
End x: 10166.509410 y: 9634.506100

Streamline #37

Coordinates of Streamline:
Start x: 10116.770000 y: 9679.837273
End x: 10170.327656 y: 9639.066071

Streamline #38

Coordinates of Streamline:
Start x: 10120.535556 y: 9684.333030
End x: 10174.172602 y: 9643.660662

Streamline #39

Coordinates of Streamline:
Start x: 10124.301111 y: 9688.828788
End x: 10178.036225 y: 9648.280345

Streamline #40

Coordinates of Streamline:
Start x: 10128.066667 y: 9693.324545
End x: 10181.917398 y: 9652.924331

Streamline #41

Coordinates of Streamline:
Start x: 10131.832222 y: 9697.820303
End x: 10185.777356 y: 9657.543074

Streamline #42

Coordinates of Streamline:

Start x: 10135.597778 y: 9702.316061
End x: 10189.544612 y: 9662.040767

Streamline #43

Coordinates of Streamline:
Start x: 10139.363333 y: 9706.811818
End x: 10193.264893 y: 9666.477056

Streamline #44

Coordinates of Streamline:
Start x: 10143.128889 y: 9711.307576
End x: 10196.970653 y: 9670.894882

Streamline #45

Coordinates of Streamline:
Start x: 10146.894444 y: 9715.803333
End x: 10200.676597 y: 9675.313349

Streamline #46

Coordinates of Streamline:
Start x: 10150.660000 y: 9720.299091
End x: 10204.390701 y: 9679.742622

Streamline #47

Coordinates of Streamline:
Start x: 10154.425556 y: 9724.794848
End x: 10208.117751 y: 9684.188732

Streamline #48

Coordinates of Streamline:
Start x: 10158.191111 y: 9729.290606
End x: 10211.859831 y: 9688.654323

Streamline #49

Coordinates of Streamline:
Start x: 10161.956667 y: 9733.786364
End x: 10215.612329 y: 9693.133778

Streamline #50

Coordinates of Streamline:
Start x: 10165.722222 y: 9738.282121
End x: 10219.384385 y: 9697.638698

Streamline #51

Coordinates of Streamline:
Start x: 10169.487778 y: 9742.777879
End x: 10223.178233 y: 9702.172194

Streamline #52

Coordinates of Streamline:
Start x: 10173.253333 y: 9747.273636
End x: 10226.978972 y: 9706.716124

Streamline #53

Coordinates of Streamline:
Start x: 10177.018889 y: 9751.769394
End x: 10230.822150 y: 9711.316150

Streamline #54

Coordinates of Streamline:
Start x: 10180.784444 y: 9756.265152
End x: 10234.803630 y: 9716.092004

Streamline #55

Coordinates of Streamline:
Start x: 10184.550000 y: 9760.760909
End x: 10239.237754 y: 9721.508932

Streamline #56

Coordinates of Streamline:
Start x: 10188.315556 y: 9765.256667
End x: 10243.021658 y: 9726.024326

Streamline #57

Coordinates of Streamline:
Start x: 10192.081111 y: 9769.752424
End x: 10246.619011 y: 9730.277498

Streamline #58

Coordinates of Streamline:
Start x: 10195.846667 y: 9774.248182
End x: 10250.180998 y: 9734.490714

Streamline #59

Coordinates of Streamline:
Start x: 10199.612222 y: 9778.743939
End x: 10253.713838 y: 9738.669994

Streamline #60

Coordinates of Streamline:
Start x: 10203.377778 y: 9783.239697
End x: 10257.222324 y: 9742.821252

Streamline #61

Coordinates of Streamline:
Start x: 10207.143333 y: 9787.735455
End x: 10260.712468 y: 9746.952856

Streamline #62

Coordinates of Streamline:
Start x: 10210.908889 y: 9792.231212
End x: 10264.173917 y: 9751.051974

Streamline #63

Coordinates of Streamline:
Start x: 10214.674444 y: 9796.726970
End x: 10267.612784 y: 9755.128302

Streamline #64

Coordinates of Streamline:
Start x: 10218.440000 y: 9801.222727
End x: 10271.019900 y: 9759.172298

Streamline #65

Coordinates of Streamline:
Start x: 10222.205556 y: 9805.718485
End x: 10274.403938 y: 9763.197887

Streamline #66

Coordinates of Streamline:
Start x: 10225.971111 y: 9810.214242
End x: 10277.770673 y: 9767.215225

Streamline #67

Coordinates of Streamline:
Start x: 10229.736667 y: 9814.710000
End x: 10281.128747 y: 9771.237643

Streamline #68

Coordinates of Streamline:
Start x: 10233.502222 y: 9819.205758
End x: 10284.480340 y: 9775.271545

Streamline #69

Coordinates of Streamline:
Start x: 10237.267778 y: 9823.701515
End x: 10287.838508 y: 9779.340288

Streamline #70

Coordinates of Streamline:
Start x: 10241.033333 y: 9828.197273
End x: 10291.201263 y: 9783.456278

Streamline #71

Coordinates of Streamline:
Start x: 10244.798889 y: 9832.693030
End x: 10293.944001 y: 9786.790942

Streamline #72

Coordinates of Streamline:
Start x: 10248.564444 y: 9837.188788
End x: 10296.966465 y: 9790.538455

Streamline #73

Coordinates of Streamline:
Start x: 10252.330000 y: 9841.684545
End x: 10300.006883 y: 9794.348987

Streamline #74

Coordinates of Streamline:
Start x: 10256.095556 y: 9846.180303
End x: 10303.039512 y: 9798.196884

Streamline #75

Coordinates of Streamline:
Start x: 10259.861111 y: 9850.676061
End x: 10306.054825 y: 9802.079868

Streamline #76

Coordinates of Streamline:
Start x: 10263.626667 y: 9855.171818
End x: 10309.041535 y: 9805.998118

Streamline #77

Coordinates of Streamline:
Start x: 10267.392222 y: 9859.667576
End x: 10311.983436 y: 9809.952156

Streamline #78

Coordinates of Streamline:
Start x: 10271.157778 y: 9864.163333
End x: 10314.855646 y: 9813.940442

Streamline #79

Coordinates of Streamline:
Start x: 10274.923333 y: 9868.659091
End x: 10317.619726 y: 9817.955271

Streamline #80

Coordinates of Streamline:
Start x: 10278.688889 y: 9873.154848
End x: 10320.217623 y: 9821.974949

Streamline #81

Coordinates of Streamline:
Start x: 10282.454444 y: 9877.650606
End x: 10322.566427 y: 9825.950065

Streamline #82

Coordinates of Streamline:
Start x: 10286.220000 y: 9882.146364
End x: 10324.558128 y: 9829.780645

Streamline #83

Coordinates of Streamline:
Start x: 10289.985556 y: 9886.642121
End x: 10326.054511 y: 9833.254199

Streamline #84

Coordinates of Streamline:
Start x: 10293.751111 y: 9891.137879
End x: 10326.887124 y: 9836.047419

Streamline #85

Coordinates of Streamline:
Start x: 10297.516667 y: 9895.633636
End x: 10327.088750 y: 9838.385503

Streamline #86

Coordinates of Streamline:
Start x: 10301.282222 y: 9900.129394
End x: 10326.908711 y: 9840.818796

Streamline #87

Coordinates of Streamline:
Start x: 10305.047778 y: 9904.625152
End x: 10326.495700 y: 9843.525465

Streamline #88

Coordinates of Streamline:
Start x: 10308.813333 y: 9909.120909
End x: 10333.395660 y: 9840.475953

Streamline #89

Coordinates of Streamline:
Start x: 10312.578889 y: 9913.616667
End x: 10332.191553 y: 9843.180230

Streamline #90

Coordinates of Streamline:
Start x: 10316.344444 y: 9918.112424
End x: 10335.618529 y: 9847.709055

Streamline #91

Coordinates of Streamline:
Start x: 10320.110000 y: 9922.608182
End x: 10338.011658 y: 9851.097032

Streamline #92

Coordinates of Streamline:
Start x: 10323.875556 y: 9927.103939
End x: 10336.662099 y: 9854.579301

Streamline #93

Coordinates of Streamline:
Start x: 10327.641111 y: 9931.599697
End x: 10341.421670 y: 9850.429638

Streamline #94

Coordinates of Streamline:
Start x: 10331.406667 y: 9936.095455
End x: 10342.386839 y: 9854.593058

Streamline #95

Coordinates of Streamline:
Start x: 10335.172222 y: 9940.591212
End x: 10444.725106 y: 9879.763870

Streamline #96

Coordinates of Streamline:
Start x: 10338.937778 y: 9945.086970
End x: 10445.984334 y: 9878.149938

Streamline #97

Coordinates of Streamline:
Start x: 10342.703333 y: 9949.582727
End x: 10446.990151 y: 9876.796566

Streamline #98

Coordinates of Streamline:
Start x: 10346.468889 y: 9954.078485
End x: 10447.680195 y: 9876.103971

Streamline #99

Coordinates of Streamline:
Start x: 10350.234444 y: 9958.574242
End x: 10448.169339 y: 9875.928413

Streamline #100

Coordinates of Streamline:
Start x: 10354.000000 y: 9963.070000
End x: 10448.510677 y: 9876.188632

Streamline #101

Coordinates of Streamline:
Start x: 10362.030000 y: 9971.100000
End x: 10449.253765 y: 9876.623906

Streamline #102

Coordinates of Streamline:
Start x: 10371.432838 y: 9968.713108
End x: 10450.095901 y: 9877.058368

Streamline #103

Coordinates of Streamline:
Start x: 10380.835676 y: 9966.326216
End x: 10450.875163 y: 9878.176175

Streamline #104

Coordinates of Streamline:
Start x: 10390.238514 y: 9963.939324
End x: 10453.615960 y: 9870.553550

Streamline #105

Coordinates of Streamline:
Start x: 10399.641351 y: 9961.552432
End x: 10454.604781 y: 9873.023164

Streamline #106

Coordinates of Streamline:
Start x: 10409.044189 y: 9959.165541
End x: 10455.673909 y: 9876.098644

Streamline #107

Coordinates of Streamline:
Start x: 10418.447027 y: 9956.778649
End x: 10458.097539 y: 9870.214512

Streamline #108

Coordinates of Streamline:
Start x: 10427.849865 y: 9954.391757
End x: 10460.002951 y: 9864.876741

Streamline #109

Coordinates of Streamline:
Start x: 10437.252703 y: 9952.004865
End x: 10462.475998 y: 9869.745433

Streamline #110

Coordinates of Streamline:
Start x: 10446.655541 y: 9949.617973
End x: 10464.986158 y: 9865.572821

Streamline #111

Coordinates of Streamline:
Start x: 10456.058378 y: 9947.231081
End x: 10467.622872 y: 9861.981102

Streamline #112

Coordinates of Streamline:
Start x: 10465.461216 y: 9944.844189
End x: 10470.561771 y: 9858.930529

Streamline #113

Coordinates of Streamline:
Start x: 10474.864054 y: 9942.457297
End x: 10476.134601 y: 9865.711784

Streamline #114

Coordinates of Streamline:
Start x: 10484.266892 y: 9940.070405
End x: 10480.486349 y: 9863.387595

Streamline #115

Coordinates of Streamline:
Start x: 10493.669730 y: 9937.683514
End x: 10485.340437 y: 9861.341362

Streamline #116

Coordinates of Streamline:
Start x: 10503.072568 y: 9935.296622
End x: 10487.342844 y: 9850.480515

Streamline #117

Coordinates of Streamline:
Start x: 10512.475405 y: 9932.909730
End x: 10492.975015 y: 9848.845867

Streamline #118

Coordinates of Streamline:
Start x: 10521.878243 y: 9930.522838
End x: 10499.170326 y: 9847.246022

Streamline #119

Coordinates of Streamline:
Start x: 10531.281081 y: 9928.135946
End x: 10505.917422 y: 9845.620108

Streamline #120

Coordinates of Streamline:
Start x: 10540.683919 y: 9925.749054
End x: 10513.223454 y: 9843.910380

Streamline #121

Coordinates of Streamline:
Start x: 10550.086757 y: 9923.362162
End x: 10521.139568 y: 9842.050391

Streamline #122

Coordinates of Streamline:
Start x: 10559.489595 y: 9920.975270
End x: 10524.297184 y: 9832.054452

Streamline #123

Coordinates of Streamline:
Start x: 10568.892432 y: 9918.588378
End x: 10533.600138 y: 9829.829400

Streamline #124

Coordinates of Streamline:
Start x: 10578.295270 y: 9916.201486
End x: 10545.806654 y: 9826.097859

Streamline #125

Coordinates of Streamline:
Start x: 10587.698108 y: 9913.814595
End x: 10563.453976 y: 9820.960313

Streamline #126

Coordinates of Streamline:
Start x: 10597.100946 y: 9911.427703
End x: 10575.501143 y: 9818.066461

Streamline #127

Coordinates of Streamline:
Start x: 10606.503784 y: 9909.040811
End x: 10585.526710 y: 9815.489570

Streamline #128

Coordinates of Streamline:
Start x: 10615.906622 y: 9906.653919
End x: 10594.565638 y: 9813.087031

Streamline #129

Coordinates of Streamline:
Start x: 10625.309459 y: 9904.267027
End x: 10603.074452 y: 9810.816343

Streamline #130

Coordinates of Streamline:
Start x: 10634.712297 y: 9901.880135
End x: 10611.282473 y: 9808.651886

Streamline #131

Coordinates of Streamline:
Start x: 10644.115135 y: 9899.493243
End x: 10619.320503 y: 9806.575119

Streamline #132

Coordinates of Streamline:
Start x: 10653.517973 y: 9897.106351
End x: 10627.277351 y: 9804.575346

Streamline #133

Coordinates of Streamline:
Start x: 10662.920811 y: 9894.719459
End x: 10635.236006 y: 9802.652216

Streamline #134

Coordinates of Streamline:
Start x: 10672.323649 y: 9892.332568
End x: 10643.374741 y: 9800.819823

Streamline #135

Coordinates of Streamline:
Start x: 10681.726486 y: 9889.945676
End x: 10655.542218 y: 9797.401860

Streamline #136

Coordinates of Streamline:
Start x: 10691.129324 y: 9887.558784
End x: 10666.812081 y: 9794.520517

Streamline #137

Coordinates of Streamline:

Start x: 10700.532162 y: 9885.171892
End x: 10676.920520 y: 9791.951939

Streamline #138

Coordinates of Streamline:
Start x: 10709.935000 y: 9882.785000
End x: 10686.681448 y: 9789.470579

Streamline #139

Coordinates of Streamline:
Start x: 10719.337838 y: 9880.398108
End x: 10696.234709 y: 9787.040742

Streamline #140

Coordinates of Streamline:
Start x: 10728.740676 y: 9878.011216
End x: 10705.651912 y: 9784.645536

Streamline #141

Coordinates of Streamline:
Start x: 10738.143514 y: 9875.624324
End x: 10714.977683 y: 9782.274899

Streamline #142

Coordinates of Streamline:
Start x: 10747.546351 y: 9873.237432
End x: 10724.239538 y: 9779.923153

Streamline #143

Coordinates of Streamline:
Start x: 10756.949189 y: 9870.850541
End x: 10733.461880 y: 9777.586194

Streamline #144

Coordinates of Streamline:
Start x: 10766.352027 y: 9868.463649
End x: 10742.690908 y: 9775.255972

Streamline #145

Coordinates of Streamline:
Start x: 10775.754865 y: 9866.076757
End x: 10752.073073 y: 9772.899539

Streamline #146

Coordinates of Streamline:
Start x: 10785.157703 y: 9863.689865
End x: 10763.418008 y: 9770.002154

Streamline #147

Coordinates of Streamline:
Start x: 10794.560541 y: 9861.302973
End x: 10773.728283 y: 9767.417650

Streamline #148

Coordinates of Streamline:
Start x: 10803.963378 y: 9858.916081
End x: 10783.110848 y: 9765.025513

Streamline #149

Coordinates of Streamline:
Start x: 10813.366216 y: 9856.529189
End x: 10792.322236 y: 9762.678600

Streamline #150

Coordinates of Streamline:
Start x: 10822.769054 y: 9854.142297
End x: 10801.460819 y: 9760.352884

Streamline #151

Coordinates of Streamline:
Start x: 10832.171892 y: 9851.755405
End x: 10810.585489 y: 9758.033616

Streamline #152

Coordinates of Streamline:
Start x: 10841.574730 y: 9849.368514
End x: 10819.686890 y: 9755.721381

Streamline #153

Coordinates of Streamline:
Start x: 10850.977568 y: 9846.981622
End x: 10828.777914 y: 9753.413521

Streamline #154

Coordinates of Streamline:
Start x: 10860.380405 y: 9844.594730
End x: 10837.804100 y: 9751.123603

Streamline #155

Coordinates of Streamline:
Start x: 10869.783243 y: 9842.207838
End x: 10846.764567 y: 9748.855647

Streamline #156

Coordinates of Streamline:
Start x: 10879.186081 y: 9839.820946
End x: 10855.677620 y: 9746.611681

Streamline #157

Coordinates of Streamline:
Start x: 10888.588919 y: 9837.434054
End x: 10864.859378 y: 9744.315071

Streamline #158

Coordinates of Streamline:
Start x: 10897.991757 y: 9835.047162
End x: 10876.998911 y: 9741.229173

Streamline #159

Coordinates of Streamline:
Start x: 10907.394595 y: 9832.660270
End x: 10886.094619 y: 9738.887789

Streamline #160

Coordinates of Streamline:
Start x: 10916.797432 y: 9830.273378
End x: 10894.808560 y: 9736.647664

Streamline #161

Coordinates of Streamline:
Start x: 10926.200270 y: 9827.886486
End x: 10903.370243 y: 9734.456609

Streamline #162

Coordinates of Streamline:
Start x: 10935.603108 y: 9825.499595
End x: 10911.864284 y: 9732.294241

Streamline #163

Coordinates of Streamline:
Start x: 10945.005946 y: 9823.112703
End x: 10920.349256 y: 9730.145484

Streamline #164

Coordinates of Streamline:
Start x: 10954.408784 y: 9820.725811
End x: 10928.868510 y: 9727.997607

Streamline #165

Coordinates of Streamline:
Start x: 10963.811622 y: 9818.338919
End x: 10937.442723 y: 9725.843130

Streamline #166

Coordinates of Streamline:
Start x: 10973.214459 y: 9815.952027
End x: 10946.071216 y: 9723.680703

Streamline #167

Coordinates of Streamline:
Start x: 10982.617297 y: 9813.565135
End x: 10954.745033 y: 9721.511950

Streamline #168

Coordinates of Streamline:
Start x: 10992.020135 y: 9811.178243
End x: 10963.463625 y: 9719.336700

Streamline #169

Coordinates of Streamline:
Start x: 11001.422973 y: 9808.791351
End x: 10972.259109 y: 9717.146050

Streamline #170

Coordinates of Streamline:
Start x: 11010.825811 y: 9806.404459
End x: 10981.280175 y: 9714.896985

Streamline #171

Coordinates of Streamline:
Start x: 11020.228649 y: 9804.017568
End x: 10992.412838 y: 9712.015979

Streamline #172

Coordinates of Streamline:
Start x: 11029.631486 y: 9801.630676
End x: 11002.532925 y: 9709.510681

Streamline #173

Coordinates of Streamline:
Start x: 11039.034324 y: 9799.243784
End x: 11011.356710 y: 9707.282119

Streamline #174

Coordinates of Streamline:
Start x: 11048.437162 y: 9796.856892
End x: 11019.950357 y: 9705.126691

Streamline #175

Coordinates of Streamline:
Start x: 11057.840000 y: 9794.470000
End x: 11028.470321 y: 9703.005012

Streamline #176

Coordinates of Streamline:
Start x: 11067.210000 y: 9787.780000
End x: 11037.460159 y: 9696.422008

Streamline #177

Coordinates of Streamline:
Start x: 11075.238636 y: 9785.894545
End x: 11044.773181 y: 9694.765408

Streamline #178

Coordinates of Streamline:
Start x: 11083.267273 y: 9784.009091
End x: 11052.204005 y: 9693.075457

Streamline #179

Coordinates of Streamline:
Start x: 11091.295909 y: 9782.123636
End x: 11059.799364 y: 9691.329036

Streamline #180

Coordinates of Streamline:
Start x: 11099.324545 y: 9780.238182
End x: 11067.613468 y: 9689.501472

Streamline #181

Coordinates of Streamline:
Start x: 11107.353182 y: 9778.352727
End x: 11075.599673 y: 9687.611845

Streamline #182

Coordinates of Streamline:
Start x: 11115.381818 y: 9776.467273
End x: 11083.697095 y: 9685.684315

Streamline #183

Coordinates of Streamline:
Start x: 11123.410455 y: 9774.581818
End x: 11091.799191 y: 9683.767520

Streamline #184

Coordinates of Streamline:
Start x: 11131.439091 y: 9772.696364
End x: 11102.348092 y: 9681.135406

Streamline #185

Coordinates of Streamline:
Start x: 11139.467727 y: 9770.810909
End x: 11111.093838 y: 9679.012487

Streamline #186

Coordinates of Streamline:
Start x: 11147.496364 y: 9768.925455
End x: 11119.429797 y: 9676.995118

Streamline #187

Coordinates of Streamline:
Start x: 11155.525000 y: 9767.040000
End x: 11127.605657 y: 9675.034958

Streamline #188

Coordinates of Streamline:
Start x: 11163.553636 y: 9765.154545
End x: 11135.748812 y: 9673.094595

Streamline #189

Coordinates of Streamline:
Start x: 11171.582273 y: 9763.269091
End x: 11143.862096 y: 9671.173592

Streamline #190

Coordinates of Streamline:
Start x: 11179.610909 y: 9761.383636
End x: 11152.011837 y: 9669.250186

Streamline #191

Coordinates of Streamline:
Start x: 11187.639545 y: 9759.498182
End x: 11160.184241 y: 9667.327732

Streamline #192

Coordinates of Streamline:
Start x: 11195.668182 y: 9757.612727
End x: 11168.361547 y: 9665.413632

Streamline #193

Coordinates of Streamline:
Start x: 11203.696818 y: 9755.727273
End x: 11176.548593 y: 9663.515060

Streamline #194

Coordinates of Streamline:
Start x: 11211.725455 y: 9753.841818
End x: 11184.796791 y: 9661.646023

Streamline #195

Coordinates of Streamline:
Start x: 11219.754091 y: 9751.956364
End x: 11194.447975 y: 9659.292350

Streamline #196

Coordinates of Streamline:
Start x: 11227.782727 y: 9750.070909
End x: 11206.777800 y: 9656.217776

Streamline #197

Coordinates of Streamline:
Start x: 11235.811364 y: 9748.185455
End x: 11218.373841 y: 9653.739739

Streamline #198

Coordinates of Streamline:
Start x: 11243.840000 y: 9746.300000
End x: 11228.564597 y: 9651.603973

Streamline #199

Coordinates of Streamline:
Start x: 11251.868636 y: 9744.414545
End x: 11237.460930 y: 9649.618715

Streamline #200

Coordinates of Streamline:
Start x: 11259.897273 y: 9742.529091
End x: 11245.297956 y: 9647.730092

Streamline #201

Coordinates of Streamline:
Start x: 11267.925909 y: 9740.643636
End x: 11252.296794 y: 9645.941401

Streamline #202

Coordinates of Streamline:
Start x: 11275.954545 y: 9738.758182
End x: 11258.645144 y: 9644.272615

Streamline #203

Coordinates of Streamline:
Start x: 11283.983182 y: 9736.872727
End x: 11264.499287 y: 9642.744710

Streamline #204

Coordinates of Streamline:
Start x: 11292.011818 y: 9734.987273
End x: 11269.992139 y: 9641.374640

Streamline #205

Coordinates of Streamline:
Start x: 11300.040455 y: 9733.101818
End x: 11275.245914 y: 9640.174355

Streamline #206

Coordinates of Streamline:
Start x: 11308.069091 y: 9731.216364
End x: 11280.385890 y: 9639.155099

Streamline #207

Coordinates of Streamline:
Start x: 11316.097727 y: 9729.330909
End x: 11286.160564 y: 9638.029868

Streamline #208

Coordinates of Streamline:
Start x: 11324.126364 y: 9727.445455
End x: 11293.291760 y: 9636.371356

Streamline #209

Coordinates of Streamline:
Start x: 11332.155000 y: 9725.560000
End x: 11300.407264 y: 9634.793525

Streamline #210

Coordinates of Streamline:
Start x: 11340.183636 y: 9723.674545
End x: 11307.254312 y: 9633.380799

Streamline #211

Coordinates of Streamline:
Start x: 11348.212273 y: 9721.789091
End x: 11313.808485 y: 9632.154691

Streamline #212

Coordinates of Streamline:
Start x: 11356.240909 y: 9719.903636
End x: 11320.074762 y: 9631.153639

Streamline #213

Coordinates of Streamline:
Start x: 11364.269545 y: 9718.018182
End x: 11326.834184 y: 9629.909765

Streamline #214

Coordinates of Streamline:
Start x: 11372.298182 y: 9716.132727
End x: 11337.139159 y: 9626.800283

Streamline #215

Coordinates of Streamline:
Start x: 11380.326818 y: 9714.247273
End x: 11351.730315 y: 9622.472924

Streamline #216

Coordinates of Streamline:
Start x: 11388.355455 y: 9712.361818
End x: 11371.119553 y: 9618.066050

Streamline #217

Coordinates of Streamline:
Start x: 11396.384091 y: 9710.476364
End x: 11397.001977 y: 9614.836436

Streamline #218

Coordinates of Streamline:
Start x: 11404.412727 y: 9708.590909
End x: 11428.739933 y: 9606.158099

Streamline #219

Coordinates of Streamline:
Start x: 11412.441364 y: 9706.705455
End x: 11481.505646 y: 9603.250461

Streamline #220

Coordinates of Streamline:
Start x: 11420.470000 y: 9704.820000
End x: 11490.452150 y: 9639.796612

Streamline #221

Coordinates of Streamline:
Start x: 11428.500000 y: 9712.840000
End x: 11496.466416 y: 9678.103430

Streamline #222

Coordinates of Streamline:
Start x: 11432.042059 y: 9722.600294
End x: 11504.587582 y: 9697.825096

Streamline #223

Coordinates of Streamline:
Start x: 11435.584118 y: 9732.360588
End x: 11510.559967 y: 9715.359025

Streamline #224

Coordinates of Streamline:
Start x: 11439.126176 y: 9742.120882
End x: 11515.165839 y: 9730.560740

Streamline #225

Coordinates of Streamline:
Start x: 11442.668235 y: 9751.881176
End x: 11509.464585 y: 9744.788308

Streamline #226

Coordinates of Streamline:
Start x: 11446.210294 y: 9761.641471
End x: 11512.838192 y: 9753.498994

Streamline #227

Coordinates of Streamline:
Start x: 11449.752353 y: 9771.401765
End x: 11516.136517 y: 9760.839754

Streamline #228

Coordinates of Streamline:
Start x: 11453.294412 y: 9781.162059
End x: 11519.343431 y: 9768.407022

Streamline #229

Coordinates of Streamline:
Start x: 11456.836471 y: 9790.922353
End x: 11522.624130 y: 9776.675510

Streamline #230

Coordinates of Streamline:
Start x: 11460.378529 y: 9800.682647
End x: 11525.872631 y: 9785.093621

Streamline #231

Coordinates of Streamline:
Start x: 11463.920588 y: 9810.442941
End x: 11528.966229 y: 9793.070855

Streamline #232

Coordinates of Streamline:

Start x: 11467.462647 y: 9820.203235
End x: 11532.001164 y: 9801.037579

Streamline #233

Coordinates of Streamline:
Start x: 11471.004706 y: 9829.963529
End x: 11534.976886 y: 9808.993864

Streamline #234

Coordinates of Streamline:
Start x: 11474.546765 y: 9839.723824
End x: 11528.729672 y: 9819.872756

Streamline #235

Coordinates of Streamline:
Start x: 11478.088824 y: 9849.484118
End x: 11531.589355 y: 9827.864511

Streamline #236

Coordinates of Streamline:
Start x: 11481.630882 y: 9859.244412
End x: 11534.306927 y: 9835.687765

Streamline #237

Coordinates of Streamline:
Start x: 11485.172941 y: 9869.004706
End x: 11536.830176 y: 9843.289133

Streamline #238

Coordinates of Streamline:
Start x: 11488.715000 y: 9878.765000
End x: 11539.101556 y: 9850.643948

Streamline #239

Coordinates of Streamline:
Start x: 11492.257059 y: 9888.525294
End x: 11541.073419 y: 9857.791553

Streamline #240

Coordinates of Streamline:
Start x: 11495.799118 y: 9898.285588
End x: 11542.739976 y: 9864.889146

Streamline #241

Coordinates of Streamline:
Start x: 11499.341176 y: 9908.045882
End x: 11544.200404 y: 9872.302148

Streamline #242

Coordinates of Streamline:
Start x: 11502.883235 y: 9917.806176
End x: 11546.456404 y: 9881.184878

Streamline #243

Coordinates of Streamline:
Start x: 11506.425294 y: 9927.566471
End x: 11554.990567 y: 9883.783902

Streamline #244

Coordinates of Streamline:
Start x: 11509.967353 y: 9937.326765
End x: 11556.249909 y: 9865.410084

Streamline #245

Coordinates of Streamline:
Start x: 11513.509412 y: 9947.087059
End x: 11584.130999 y: 9899.179291

Streamline #246

Coordinates of Streamline:
Start x: 11517.051471 y: 9956.847353
End x: 11586.155081 y: 9923.566518

Streamline #247

Coordinates of Streamline:
Start x: 11520.593529 y: 9966.607647
End x: 11592.473990 y: 9939.345600

Streamline #248

Coordinates of Streamline:
Start x: 11524.135588 y: 9976.367941
End x: 11597.807537 y: 9954.208759

Streamline #249

Coordinates of Streamline:
Start x: 11527.677647 y: 9986.128235
End x: 11602.629812 y: 9970.624509

Streamline #250

Coordinates of Streamline:
Start x: 11531.219706 y: 9995.888529
End x: 11606.449783 y: 9980.336880

Streamline #251

Coordinates of Streamline:
Start x: 11534.761765 y: 10005.648824
End x: 11609.853079 y: 9989.034074

Streamline #252

Coordinates of Streamline:
Start x: 11538.303824 y: 10015.409118
End x: 11613.032604 y: 9997.136112

Streamline #253

Coordinates of Streamline:
Start x: 11541.845882 y: 10025.169412
End x: 11606.710186 y: 10007.187325

Streamline #254

Coordinates of Streamline:
Start x: 11545.387941 y: 10034.929706
End x: 11609.598342 y: 10014.785627

Streamline #255

Coordinates of Streamline:
Start x: 11548.930000 y: 10044.690000
End x: 11612.251985 y: 10021.964915

==========

Particle Traces

Number of Particle-traces = 0

APPENDIX C-4

GROUNDWATER MODELING OF REMEDIAL ALTERNATIVES – AREA BCE

Area BCE Extraction Wells and Collection Trench Modeling Summary

WinFlow
Analytical Model of 2D Ground-Water Flow

Developed by

James O. Rumbaugh, III

Douglas B. Rumbaugh

(c) 1995 Environmental Simulations, Inc.

Date: 10/19/99
Time: 16:51:47.00

Input File: PND4-2C2.WFL
Map File : C:\WINFLOW\BCC\CURRENT\BCCCLEAN.MAP

Model Entities

Number of Linesinks Defined by Infiltration Rate = 0

Number of Linesinks Defined by Head = 94

Line Sink #1
x1: 9455.809570 y1: 8852.379883
x2: 9532.019531 y2: 8919.309570
Discharge per length = 0.001120
Head in Center of Linesink = 573.999207
Total Linesink Discharge = 0.113607 [L3/T]
Line Sink #2
x1: 9758.330078 y1: 8921.110352
x2: 9856.000000 y2: 8920.000000
Discharge per length = 0.000277
Head in Center of Linesink = 573.999878
Total Linesink Discharge = 0.027062 [L3/T]
Line Sink #3
x1: 9933.679688 y1: 9097.740234
x2: 9962.000000 y2: 9176.000000
Discharge per length = 0.000682
Head in Center of Linesink = 574.000000
Total Linesink Discharge = 0.056767 [L3/T]
Line Sink #4
x1: 10070.490234 y1: 9330.889648
x2: 10125.000000 y2: 9402.000000
Discharge per length = 0.000796
Head in Center of Linesink = 573.999939
Total Linesink Discharge = 0.071276 [L3/T]
Line Sink #5
x1: 10243.269531 y1: 9391.910156
x2: 10352.000000 y2: 9380.000000
Discharge per length = 0.001184
Head in Center of Linesink = 573.999512
Total Linesink Discharge = 0.129531 [L3/T]
Line Sink #6
x1: 10466.790039 y1: 9379.070313
x2: 10570.000000 y2: 9384.000000
Discharge per length = 0.001901
Head in Center of Linesink = 573.999939
Total Linesink Discharge = 0.196404 [L3/T]
Line Sink #7
x1: 10676.169922 y1: 9380.349609
x2: 10766.000000 y2: 9374.000000
Discharge per length = 0.001017
Head in Center of Linesink = 573.999451
Total Linesink Discharge = 0.091587 [L3/T]
Line Sink #8
x1: 10958.150391 y1: 9452.929688
x2: 11058.000000 y2: 9493.280273
Discharge per length = 0.000864
Head in Center of Linesink = 574.000000
Total Linesink Discharge = 0.093040 [L3/T]
Line Sink #9
x1: 11164.320313 y1: 9533.219727
x2: 11264.900391 y2: 9559.000000
Discharge per length = 0.001640
Head in Center of Linesink = 574.000000
Total Linesink Discharge = 0.170290 [L3/T]
Line Sink #10

```
    x1: 11274.799805   y1: 9557.620117
    x2: 11375.000000   y2: 9548.629883
    Discharge per length = 0.000034
    Head in Center of Linesink     = 574.000000
    Total Linesink Discharge       = 0.003430 [L3/T]
 Line Sink #11
    x1: 11798.269531   y1: 9458.070313
    x2: 11910.019531   y2: 9429.009766
    Discharge per length = 0.002064
    Head in Center of Linesink     = 573.999756
    Total Linesink Discharge       = 0.238308 [L3/T]
 Line Sink #12
    x1: 12250.440430   y1: 9339.889648
    x2: 12379.919922   y2: 9307.370117
    Discharge per length = 0.000632
    Head in Center of Linesink     = 574.000000
    Total Linesink Discharge       = 0.084344 [L3/T]
 Line Sink #13
    x1: 12609.480469   y1: 9251.900391
    x2: 12842.719727   y2: 9201.009766
    Discharge per length = 0.000859
    Head in Center of Linesink     = 573.999817
    Total Linesink Discharge       = 0.205098 [L3/T]
 Line Sink #14
    x1: 9238.709961   y1: 8655.839844
    x2: 9162.280273   y2: 8589.679688
    Discharge per length = 0.000433
    Head in Center of Linesink     = 574.000000
    Total Linesink Discharge       = 0.043794 [L3/T]
 Line Sink #15
    x1: 8799.389648   y1: 8269.179688
    x2: 8743.000000   y2: 8212.000000
    Discharge per length = 0.001505
    Head in Center of Linesink     = 573.999573
    Total Linesink Discharge       = 0.120844 [L3/T]
 Line Sink #16
    x1: 9305.000000   y1: 7620.000000
    x2: 9499.110352   y2: 7798.709961
    Discharge per length = 0.000628
    Head in Center of Linesink     = 573.999756
    Total Linesink Discharge       = 0.165708 [L3/T]
 Line Sink #17
    x1: 10618.910156   y1: 8563.019531
    x2: 10893.000000   y2: 8655.000000
    Discharge per length = 0.000082
    Head in Center of Linesink     = 574.000000
    Total Linesink Discharge       = 0.023646 [L3/T]
 Line Sink #18
    x1: 11621.400391   y1: 8674.400391
    x2: 11886.000000   y2: 8669.000000
    Discharge per length = 0.000117
    Head in Center of Linesink     = 574.000000
    Total Linesink Discharge       = 0.031064 [L3/T]
 Line Sink #19
    x1: 12429.190430   y1: 8627.009766
    x2: 12836.000000   y2: 8598.000000
    Discharge per length = 0.000518
    Head in Center of Linesink     = 573.999817
    Total Linesink Discharge       = 0.211379 [L3/T]
 Line Sink #20
    x1: 10298.349609   y1: 10053.889648
    x2: 10275.230469   y2: 9945.990234
    Discharge per length = 0.000128
    Head in Center of Linesink     = 579.000000
    Total Linesink Discharge       = 0.014178 [L3/T]
 Line Sink #21
    x1: 9915.799805   y1: 10113.259766
    x2: 10032.509766   y2: 10055.139648
    Discharge per length = 0.001201
    Head in Center of Linesink     = 578.999939
    Total Linesink Discharge       = 0.156589 [L3/T]
 Line Sink #22
    x1: 9803.790039   y1: 10170.790039
    x2: 9702.000000   y2: 10222.000000
    Discharge per length = 0.001903
    Head in Center of Linesink     = 578.999878
    Total Linesink Discharge       = 0.216785 [L3/T]
 Line Sink #23
    x1: 10341.650391   y1: 9900.759766
    x2: 10457.000000   y2: 9838.719727
    Discharge per length = -0.001610
    Head in Center of Linesink     = 579.000061
    Total Linesink Discharge       = -0.210849 [L3/T]
 Line Sink #24
    x1: 10574.030273   y1: 9781.690430
    x2: 10679.879883   y2: 9750.730469
    Discharge per length = -0.002594
    Head in Center of Linesink     = 578.999939
    Total Linesink Discharge       = -0.286058 [L3/T]
 Line Sink #25
    x1: 10795.110352   y1: 9720.509766
    x2: 10904.009766   y2: 9693.559570
    Discharge per length = -0.003698
    Head in Center of Linesink     = 579.000366
    Total Linesink Discharge       = -0.414866 [L3/T]
```

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Line Sink #26
   x1: 11634.080078   y1: 10079.360352
   x2: 11606.690430   y2: 9965.889648
   Discharge per length = 0.002651
   Head in Center of Linesink    = 576.999817
   Total Linesink Discharge      = 0.309429 [L3/T]
Line Sink #27
   x1: 11447.019531   y1: 10428.690430
   x2: 11581.000000   y2: 10397.530273
   Discharge per length = 0.002298
   Head in Center of Linesink    = 575.000000
   Total Linesink Discharge      = 0.316103 [L3/T]
Line Sink #28
   x1: 11748.410156   y1: 10464.120117
   x2: 11704.809570   y2: 10284.269531
   Discharge per length = 0.001622
   Head in Center of Linesink    = 574.999939
   Total Linesink Discharge      = 0.300188 [L3/T]
Line Sink #29
   x1: 11243.259766   y1: 9603.580078
   x2: 11342.610352   y2: 9578.759766
   Discharge per length = 0.000638
   Head in Center of Linesink    = 574.000061
   Total Linesink Discharge      = 0.065304 [L3/T]
Line Sink #30
   x1: 9013.269531   y1: 8457.370117
   x2: 9089.059570   y2: 8525.450195
   Discharge per length = 0.000414
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.042168 [L3/T]
Line Sink #31
   x1: 9089.059570   y1: 8526.740234
   x2: 9159.709961   y2: 8588.400391
   Discharge per length = 0.000415
   Head in Center of Linesink    = 573.999878
   Total Linesink Discharge      = 0.038954 [L3/T]
Line Sink #32
   x1: 9009.419922   y1: 8452.230469
   x2: 8938.759766   y2: 8398.280273
   Discharge per length = 0.000460
   Head in Center of Linesink    = 573.999878
   Total Linesink Discharge      = 0.040935 [L3/T]
Line Sink #33
   x1: 8870.679688   y1: 8337.900391
   x2: 8936.190430   y2: 8394.419922
   Discharge per length = 0.000532
   Head in Center of Linesink    = 573.999939
   Total Linesink Discharge      = 0.046044 [L3/T]
Line Sink #34
   x1: 8801.959961   y1: 8269.179688
   x2: 8868.759766   y2: 8335.969727
   Discharge per length = 0.000650
   Head in Center of Linesink    = 573.999817
   Total Linesink Discharge      = 0.061383 [L3/T]
Line Sink #35
   x1: 9242.559570   y1: 8657.120117
   x2: 9319.639648   y2: 8726.490234
   Discharge per length = 0.000472
   Head in Center of Linesink    = 573.999817
   Total Linesink Discharge      = 0.048940 [L3/T]
Line Sink #36
   x1: 9322.209961   y1: 8727.780273
   x2: 9385.150391   y2: 8788.150391
   Discharge per length = 0.000558
   Head in Center of Linesink    = 573.999817
   Total Linesink Discharge      = 0.048674 [L3/T]
Line Sink #37
   x1: 9386.440430   y1: 8789.440430
   x2: 9453.240234   y2: 8851.099609
   Discharge per length = 0.000704
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.064033 [L3/T]
Line Sink #38
   x1: 9541.230469   y1: 8919.830078
   x2: 9636.290039   y2: 8921.110352
   Discharge per length = 0.001141
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.108446 [L3/T]
Line Sink #39
   x1: 9641.429688   y1: 8919.830078
   x2: 9753.190430   y2: 8919.830078
   Discharge per length = 0.000633
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.070792 [L3/T]
Line Sink #40
   x1: 9857.879883   y1: 8917.900391
   x2: 9896.419922   y2: 9003.959961
   Discharge per length = 0.000224
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.021144 [L3/T]
Line Sink #41
   x1: 9895.139648   y1: 9006.530273
   x2: 9931.110352   y2: 9093.889648
   Discharge per length = 0.000509
   Head in Center of Linesink    = 574.000000
```

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   Total Linesink Discharge      = 0.048050 [L3/T]
Line Sink #42
   x1: 9961.299805   y1: 9176.740234
   x2: 10012.679688   y2: 9252.530273
   Discharge per length = 0.000789
   Head in Center of Linesink    = 573.999756
   Total Linesink Discharge      = 0.072255 [L3/T]
Line Sink #43
   x1: 10013.959961   y1: 9252.530273
   x2: 10070.490234   y2: 9328.320313
   Discharge per length = 0.000739
   Head in Center of Linesink    = 573.999939
   Total Linesink Discharge      = 0.069872 [L3/T]
Line Sink #44
   x1: 10128.290039   y1: 9404.110352
   x2: 10234.269531   y2: 9391.910156
   Discharge per length = 0.000752
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.080274 [L3/T]
Line Sink #45
   x1: 10356.309570   y1: 9379.070313
   x2: 10459.080078   y2: 9379.070313
   Discharge per length = 0.001736
   Head in Center of Linesink    = 574.000061
   Total Linesink Discharge      = 0.178363 [L3/T]
Line Sink #46
   x1: 10573.410156   y1: 9384.209961
   x2: 10671.040039   y2: 9381.639648
   Discharge per length = 0.001624
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.158574 [L3/T]
Line Sink #47
   x1: 10768.030273   y1: 9375.860352
   x2: 10857.950195   y2: 9411.820313
   Discharge per length = 0.000855
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.082806 [L3/T]
Line Sink #48
   x1: 10859.230469   y1: 9413.110352
   x2: 10954.290039   y2: 9450.360352
   Discharge per length = 0.000865
   Head in Center of Linesink    = 573.999573
   Total Linesink Discharge      = 0.088358 [L3/T]
Line Sink #49
   x1: 11061.559570   y1: 9494.679688
   x2: 11160.469727   y2: 9530.650391
   Discharge per length = 0.001201
   Head in Center of Linesink    = 573.999207
   Total Linesink Discharge      = 0.126441 [L3/T]
Line Sink #50
   x1: 11378.849609   y1: 9547.349609
   x2: 11468.769531   y2: 9534.500000
   Discharge per length = 0.000306
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.027776 [L3/T]
Line Sink #51
   x1: 11471.339844   y1: 9533.219727
   x2: 11549.700195   y2: 9521.650391
   Discharge per length = 0.001359
   Head in Center of Linesink    = 574.000061
   Total Linesink Discharge      = 0.107608 [L3/T]
Line Sink #52
   x1: 11554.200195   y1: 9519.730469
   x2: 11667.240234   y2: 9492.750000
   Discharge per length = 0.001309
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.152149 [L3/T]
Line Sink #53
   x1: 11671.089844   y1: 9490.190430
   x2: 11793.129883   y2: 9459.360352
   Discharge per length = 0.001958
   Head in Center of Linesink    = 573.999023
   Total Linesink Discharge      = 0.246515 [L3/T]
Line Sink #54
   x1: 11913.879883   y1: 9427.250000
   x2: 12014.080078   y2: 9400.269531
   Discharge per length = 0.001603
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.166324 [L3/T]
Line Sink #55
   x1: 12019.200195   y1: 9398.980469
   x2: 12124.530273   y2: 9370.719727
   Discharge per length = 0.001153
   Head in Center of Linesink    = 573.999878
   Total Linesink Discharge      = 0.125753 [L3/T]
Line Sink #56
   x1: 12129.690430   y1: 9369.440430
   x2: 12244.019531   y2: 9342.459961
   Discharge per length = 0.000842
   Head in Center of Linesink    = 574.000000
   Total Linesink Discharge      = 0.098890 [L3/T]
Line Sink #57
   x1: 12383.389648   y1: 9304.559570
   x2: 12605.629883   y2: 9253.179688
   Discharge per length = 0.000486
```

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    Head in Center of Linesink     = 574.000000
    Total Linesink Discharge       = 0.110848 [L3/T]
 Line Sink #58
    x1: 9501.480469    y1: 7801.080078
    x2: 9698.190430    y2: 7983.569824
    Discharge per length = 0.000215
    Head in Center of Linesink     = 574.000000
    Total Linesink Discharge       = 0.057673 [L3/T]
 Line Sink #59
    x1: 9702.929688    y1: 7988.310059
    x2: 9885.410156    y2: 8158.950195
    Discharge per length = 0.000149
    Head in Center of Linesink     = 574.000000
    Total Linesink Discharge       = 0.037124 [L3/T]
 Line Sink #60
    x1: 9892.519531    y1: 8163.689941
    x2: 10103.450195   y2: 8334.320313
    Discharge per length = 0.000107
    Head in Center of Linesink     = 573.999939
    Total Linesink Discharge       = 0.028921 [L3/T]
 Line Sink #61
    x1: 10111.750000   y1: 8335.509766
    x2: 10365.330078   y2: 8463.480469
    Discharge per length = 0.000091
    Head in Center of Linesink     = 573.999939
    Total Linesink Discharge       = 0.025889 [L3/T]
 Line Sink #62
    x1: 10370.070313   y1: 8461.110352
    x2: 10611.799805   y2: 8560.650391
    Discharge per length = 0.000091
    Head in Center of Linesink     = 574.000000
    Total Linesink Discharge       = 0.023684 [L3/T]
 Line Sink #63
    x1: 10896.200195   y1: 8655.440430
    x2: 11206.660156   y2: 8672.030273
    Discharge per length = 0.000085
    Head in Center of Linesink     = 574.000000
    Total Linesink Discharge       = 0.026534 [L3/T]
 Line Sink #64
    x1: 11216.139648   y1: 8669.660156
    x2: 11607.179688   y2: 8676.769531
    Discharge per length = 0.000105
    Head in Center of Linesink     = 574.000000
    Total Linesink Discharge       = 0.041071 [L3/T]
 Line Sink #65
    x1: 11891.209961   y1: 8667.299805
    x2: 12412.599609   y2: 8627.009766
    Discharge per length = 0.000155
    Head in Center of Linesink     = 573.999939
    Total Linesink Discharge       = 0.081130 [L3/T]
 Line Sink #66
    x1: 9805.070313    y1: 10169.500000
    x2: 9914.259766    y2: 10116.830078
    Discharge per length = 0.001247
    Head in Center of Linesink     = 578.999939
    Total Linesink Discharge       = 0.151180 [L3/T]
 Line Sink #67
    x1: 10035.009766   y1: 10050.040039
    x2: 10145.490234   y2: 9997.370117
    Discharge per length = 0.000877
    Head in Center of Linesink     = 578.999939
    Total Linesink Discharge       = 0.107354 [L3/T]
 Line Sink #68
    x1: 10148.059570   y1: 9996.089844
    x2: 10254.679688   y2: 9944.700195
    Discharge per length = 0.000287
    Head in Center of Linesink     = 579.000000
    Total Linesink Discharge       = 0.033998 [L3/T]
 Line Sink #69
    x1: 10298.349609   y1: 10057.750000
    x2: 10320.190430   y2: 10156.660156
    Discharge per length = 0.000577
    Head in Center of Linesink     = 579.000000
    Total Linesink Discharge       = 0.058489 [L3/T]
 Line Sink #70
    x1: 10342.030273   y1: 10256.860352
    x2: 10320.190430   y2: 10157.950195
    Discharge per length = 0.002023
    Head in Center of Linesink     = 578.999939
    Total Linesink Discharge       = 0.204866 [L3/T]
 Line Sink #71
    x1: 10257.250000   y1: 9940.849609
    x2: 10336.889648   y2: 9902.309570
    Discharge per length = -0.000201
    Head in Center of Linesink     = 579.000000
    Total Linesink Discharge       = -0.017760 [L3/T]
 Line Sink #72
    x1: 10458.290039   y1: 9836.150391
    x2: 10571.330078   y2: 9783.490234
    Discharge per length = -0.004088
    Head in Center of Linesink     = 579.000000
    Total Linesink Discharge       = -0.509819 [L3/T]
 Line Sink #73
    x1: 10681.169922   y1: 9749.440430
    x2: 10792.929688   y2: 9721.179688
```

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    Discharge per length = -0.002781
    Head in Center of Linesink     = 579.000000
    Total Linesink Discharge       = -0.320633 [L3/T]
Line Sink #74
    x1: 10906.580078   y1: 9692.280273
    x2: 11014.490234   y2: 9664.019531
    Discharge per length = -0.004309
    Head in Center of Linesink     = 579.000000
    Total Linesink Discharge       = -0.480665 [L3/T]
Line Sink #75
    x1: 11017.059570   y1: 9661.450195
    x2: 11126.250000   y2: 9635.759766
    Discharge per length = -0.004633
    Head in Center of Linesink     = 579.000122
    Total Linesink Discharge       = -0.519735 [L3/T]
Line Sink #76
    x1: 11130.099609   y1: 9633.190430
    x2: 11240.580078   y2: 9604.929688
    Discharge per length = -0.005609
    Head in Center of Linesink     = 579.000000
    Total Linesink Discharge       = -0.639590 [L3/T]
Line Sink #77
    x1: 11502.000000   y1: 9540.059570
    x2: 11527.690430   y2: 9636.400391
    Discharge per length = -0.002122
    Head in Center of Linesink     = 577.000061
    Total Linesink Discharge       = -0.211599 [L3/T]
Line Sink #78
    x1: 11526.410156   y1: 9640.250000
    x2: 11549.530273   y2: 9735.309570
    Discharge per length = -0.000563
    Head in Center of Linesink     = 577.000000
    Total Linesink Discharge       = -0.055048 [L3/T]
Line Sink #79
    x1: 11550.809570   y1: 9737.879883
    x2: 11576.500000   y2: 9841.929688
    Discharge per length = 0.000164
    Head in Center of Linesink     = 577.000183
    Total Linesink Discharge       = 0.017572 [L3/T]
Line Sink #80
    x1: 11577.139648   y1: 9846.429688
    x2: 11606.690430   y2: 9962.040039
    Discharge per length = 0.002232
    Head in Center of Linesink     = 576.999756
    Total Linesink Discharge       = 0.266330 [L3/T]
Line Sink #81
    x1: 11586.139648   y1: 10396.240234
    x2: 11710.740234   y2: 10365.410156
    Discharge per length = 0.001052
    Head in Center of Linesink     = 574.999878
    Total Linesink Discharge       = 0.134985 [L3/T]
Line Sink #82
    x1: 10440.099609   y1: 9875.209961
    x2: 10548.650391   y2: 9822.330078
    Discharge per length = 0.006272
    Head in Center of Linesink     = 574.999817
    Total Linesink Discharge       = 0.757319 [L3/T]
Line Sink #83
    x1: 10551.429688   y1: 9819.549805
    x2: 10648.849609   y2: 9794.500000
    Discharge per length = 0.005541
    Head in Center of Linesink     = 574.998779
    Total Linesink Discharge       = 0.557322 [L3/T]
Line Sink #84
    x1: 10653.019531   y1: 9793.099609
    x2: 10761.570313   y2: 9765.269531
    Discharge per length = 0.004968
    Head in Center of Linesink     = 574.999634
    Total Linesink Discharge       = 0.556699 [L3/T]
Line Sink #85
    x1: 10762.959961   y1: 9763.879883
    x2: 10877.070313   y2: 9734.660156
    Discharge per length = 0.004989
    Head in Center of Linesink     = 574.999756
    Total Linesink Discharge       = 0.587666 [L3/T]
Line Sink #86
    x1: 10879.860352   y1: 9731.870117
    x2: 10989.799805   y2: 9706.820313
    Discharge per length = 0.005003
    Head in Center of Linesink     = 574.999695
    Total Linesink Discharge       = 0.564182 [L3/T]
Line Sink #87
    x1: 10994.080078   y1: 9704.040039
    x2: 11101.240234   y2: 9677.599609
    Discharge per length = 0.004971
    Head in Center of Linesink     = 575.000000
    Total Linesink Discharge       = 0.548703 [L3/T]
Line Sink #88
    x1: 11105.410156   y1: 9676.209961
    x2: 11202.830078   y2: 9653.940430
    Discharge per length = 0.005138
    Head in Center of Linesink     = 574.999573
    Total Linesink Discharge       = 0.513465 [L3/T]
Line Sink #89
    x1: 11204.160156   y1: 9652.549805
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      x2: 11300.190430   y2: 9630.280273
      Discharge per length = 0.002883
      Head in Center of Linesink    = 574.999451
      Total Linesink Discharge      = 0.284172 [L3/T]
   Line Sink #90
      x1: 11301.580078   y1: 9628.889648
      x2: 11387.860352   y2: 9609.410156
      Discharge per length = 0.001172
      Head in Center of Linesink    = 575.000000
      Total Linesink Discharge      = 0.103646 [L3/T]
   Line Sink #91
      x1: 11390.639648   y1: 9608.019531
      x2: 11483.879883   y2: 9588.530273
      Discharge per length = 0.000818
      Head in Center of Linesink    = 574.999695
      Total Linesink Discharge      = 0.077962 [L3/T]
   Line Sink #92
      x1: 11485.269531   y1: 9595.490234
      x2: 11504.759766   y2: 9673.419922
      Discharge per length = 0.002792
      Head in Center of Linesink    = 574.999878
      Total Linesink Discharge      = 0.224289 [L3/T]
   Line Sink #93
      x1: 11504.759766   y1: 9677.599609
      x2: 11527.019531   y2: 9772.230469
      Discharge per length = 0.003468
      Head in Center of Linesink    = 574.999878
      Total Linesink Discharge      = 0.337100 [L3/T]
   Line Sink #94
      x1: 11527.019531   y1: 9776.410156
      x2: 11550.679688   y2: 9872.429688
      Discharge per length = 0.003556
      Head in Center of Linesink    = 575.000000
      Total Linesink Discharge      = 0.351677 [L3/T]


Number of Ponds = 10

   Pond #1
      Center of Pond --  x: 9863.690430   y: 9771.309570
      Radius = 357.489990
      Infiltration Rate = 0.000002
      Head at Center of Pond        = 581.051147
      Total Pond Flux               = 0.987672 [L3/T]
   Pond #2
      Center of Pond --  x: 10779.519531   y: 10159.440430
      Radius = 330.489990
      Infiltration Rate = 0.000003
      Head at Center of Pond        = 581.768677
      Total Pond Flux               = 0.936762 [L3/T]
   Pond #3
      Center of Pond --  x: 11295.660156   y: 9892.900391
      Radius = 240.630005
      Infiltration Rate = 0.000005
      Head at Center of Pond        = 580.648438
      Total Pond Flux               = 0.993212 [L3/T]
   Pond #4
      Center of Pond --  x: 9461.429688   y: 9236.889648
      Radius = 292.000000
      Infiltration Rate = 0.000002
      Head at Center of Pond        = 580.749939
      Total Pond Flux               = 0.658947 [L3/T]
   Pond #5
      Center of Pond --  x: 10127.879883   y: 10456.309570
      Radius = 196.600006
      Infiltration Rate = 0.000003
      Head at Center of Pond        = 581.790405
      Total Pond Flux               = 0.331497 [L3/T]
   Pond #6
      Center of Pond --  x: 11860.480469   y: 9758.450195
      Radius = 254.770004
      Infiltration Rate = 0.000011
      Head at Center of Pond        = 583.117126
      Total Pond Flux               = 2.222660 [L3/T]
   Pond #7
      Center of Pond --  x: 10427.480469   y: 9572.870117
      Radius = 70.000000
      Infiltration Rate = 0.000055
      Head at Center of Pond        = 582.394104
      Total Pond Flux               = 0.840502 [L3/T]
   Pond #8
      Center of Pond --  x: 10600.910156   y: 9607.610352
      Radius = 70.000000
      Infiltration Rate = 0.000041
      Head at Center of Pond        = 582.153931
      Total Pond Flux               = 0.629607 [L3/T]
   Pond #9
      Center of Pond --  x: 10761.839844   y: 9620.469727
      Radius = 40.000000
      Infiltration Rate = 0.000041
      Head at Center of Pond        = 580.395935
      Total Pond Flux               = 0.206088 [L3/T]
   Pond #10
      Center of Pond --  x: 11421.280273   y: 9700.990234
      Radius = 64.430000
```

Infiltration Rate = 0.000027
Head at Center of Pond = 578.756653
Total Pond Flux = 0.356032 [L3/T]

Number of Wells = 13

Well #1
Center of Well -- x: 10070.389648 y: 9500.530273
Radius = 1.500000
Pumping Rate = 0.080000
Head at Well Radius = 575.363098

Well #2
Center of Well -- x: 10093.549805 y: 9529.839844
Radius = 1.500000
Pumping Rate = 0.080000
Head at Well Radius = 575.342407

Well #3
Center of Well -- x: 10213.759766 y: 9683.230469
Radius = 1.500000
Pumping Rate = 0.050000
Head at Well Radius = 577.483215

Well #4
Center of Well -- x: 10118.419922 y: 9563.080078
Radius = 1.500000
Pumping Rate = 0.050000
Head at Well Radius = 576.302856

Well #5
Center of Well -- x: 10143.230469 y: 9593.110352
Radius = 1.500000
Pumping Rate = 0.050000
Head at Well Radius = 576.675293

Well #6
Center of Well -- x: 10168.040039 y: 9623.139648
Radius = 1.500000
Pumping Rate = 0.050000
Head at Well Radius = 577.000000

Well #7
Center of Well -- x: 10190.250000 y: 9654.500000
Radius = 1.500000
Pumping Rate = 0.050000
Head at Well Radius = 577.276672

Well #8
Center of Well -- x: 10310.410156 y: 9806.740234
Radius = 1.500000
Pumping Rate = 0.050000
Head at Well Radius = 577.900146

Well #9
Center of Well -- x: 10336.530273 y: 9842.000000
Radius = 1.500000
Pumping Rate = 0.050000
Head at Well Radius = 578.083862

Well #10
Center of Well -- x: 10363.959961 y: 9873.349609
Radius = 1.500000
Pumping Rate = 0.050000
Head at Well Radius = 578.529358

Well #11
Center of Well -- x: 10238.559570 y: 9712.679688
Radius = 1.500000
Pumping Rate = 0.050000
Head at Well Radius = 577.650635

Well #12
Center of Well -- x: 10263.370117 y: 9744.019531
Radius = 1.500000
Pumping Rate = 0.050000
Head at Well Radius = 577.757202

Well #13
Center of Well -- x: 10285.570313 y: 9776.690430
Radius = 1.500000
Pumping Rate = 0.050000
Head at Well Radius = 577.808716

Reference Head = 582.000000 Defined at -- x: 10200.940430 y: 10653.509766

****

Calibration Targets

Target Head	Computed Head	Residual	Well Name
576.21	577.34	-1.1331	RFI-17
578.01	578.39	-0.3784	RFI-42
580.29	579.85	0.4357	RFI-43
581.32	581.57	-0.2494	RFI-33
581.18	582.17	-0.9929	PS-11
580.86	580.41	0.4480	PS-12
581.22	575.56	5.6595	RFI-32
582.32	576.42	5.8976	PS-13
581.05	580.66	0.3853	R-15
582.55	579.63	2.9177	RFI-36
580.27	578.86	1.4126	RFIPZ23
581.64	578.54	3.0988	RFI-51

579.29	578.80	0.4914	RFIPZ22
580.54	578.13	2.4138	R-11
580.23	578.87	1.3650	RFIPZ16
573.69	576.06	-2.3659	RFIPZ27
576.79	575.97	0.8236	RFIPZ18
575.54	575.00	0.5398	R-13
580.83	575.47	5.3647	R-08
576.77	575.40	1.3744	R-09
573.84	575.01	-1.1748	RFIPZ17
575.66	574.58	1.0838	RFIPZ21
573.61	574.03	-0.4206	RFIPZ19
573.50	574.02	-0.5190	RFIPZ20
582.05	582.01	0.0428	RFI-20
582.63	582.04	0.5853	PS-05
581.60	580.14	1.4560	PS-06
582.09	580.86	1.2251	PS-04
580.73	580.56	0.1713	RFI-31
580.19	579.38	0.8134	RFI-30
581.27	579.11	2.1584	RFIPZ26
580.81	578.95	1.8646	RFIPZ25
579.99	577.83	2.1565	RFI-29
579.92	578.35	1.5727	RFI-18
582.23	578.23	4.0006	PS-08
581.36	579.22	2.1366	RFIPZ24
580.20	578.07	2.1266	RFI-35
581.62	580.57	1.0455	PS-07
581.11	581.23	-0.1206	RFI-27
581.62	580.43	1.1929	PS-09
579.92	577.95	1.9675	RFI-28
573.68	574.02	-0.3441	RFI-34
573.55	574.03	-0.4795	RFI-45
582.42	581.28	1.1439	RFI-37

Number of Targets = 44
Residual Mean = 1.163477
Residual Standard Deviation = 1.729479
Residual Sum of Squares = 191.170216
Absolute Residual Mean = 1.535213
Minimum Residual = -2.365881
Maximum Residual = 5.897558
Observed Range in Head = 9.130000
Resid. Std./Range in Head = 0.189428

Aquifer Properties

.... Steady-State Flow Model ....

Permeability.....= 0.007820 [L/T]
Porosity.....= 0.100000
Elevation of Aquifer Top....= 585.000000
Elevation of Aquifer Bottom.= 572.800000
Uniform Regional Gradient...= 0.000000
Angle of Uniform Gradient...= 0.000000
Recharge.....= 0.000000

Contour Matrix

Number of nodes in the X-direction = 100
Number of nodes in the Y-direction = 100

Minimum X Coordinate = 9025.477979
Minimum Y Coordinate = 8203.024170

Maximum X Coordinate = 11901.302297
Maximum Y Coordinate = 10901.187749

Minimum Head = 573.739900
Maximum Head = 583.380287

CONTOUR GRID -----

Row 1

575.489427	575.460792	575.426871	575.388165	575.345122
575.298162	575.247689	575.194111	575.137843	575.079317
575.018981	574.957298	574.894740	574.831783	574.768898
574.706539	574.645133	574.585079	574.526730	574.470393
574.416318	574.364691	574.315632	574.269211	574.225494

574.184625	574.146987	574.113433	574.085612	574.065685
574.052152	574.038803	574.117460	574.279841	574.423135
574.551396	574.667231	574.772474	574.868599	574.956930
575.038661	575.114795	575.186132	575.253290	575.316753
575.376906	575.434065	575.488497	575.540429	575.590058
575.637555	575.683066	575.726719	575.768625	575.808879
575.847567	575.884767	575.920549	575.954981	575.988123

576.020037	576.050780	576.080407	576.108973	576.136532
576.163136	576.188836	576.213684	576.237730	576.261024
576.283615	576.305553	576.326884	576.347657	576.367916
576.387708	576.407075	576.426061	576.444705	576.463048
576.481126	576.498977	576.516632	576.534127	576.551493
576.568761	576.585962	576.603127	576.620290	576.637482
576.654739	576.672098	576.689597	576.707278	576.725184
576.743363	576.761863	576.780737	576.800039	576.819827

Row 2

575.337192	575.322126	575.300122	575.272106	575.238827
575.200919	575.158946	575.113428	575.064862	575.013732
574.960517	574.905694	574.849735	574.793105	574.736256
574.679623	574.623612	574.568601	574.514928	574.462889
574.412736	574.364672	574.318855	574.275422	574.234519
574.196361	574.161315	574.129972	574.103089	574.081045
574.062689	574.045571	574.027729	574.071706	574.234961
574.378179	574.505567	574.619714	574.722624	574.816205
574.902203	574.981998	575.056589	575.126696	575.192856
575.255486	575.314927	575.371465	575.425347	575.476789
575.525974	575.573061	575.618186	575.661463	575.702991
575.742859	575.781145	575.817923	575.853259	575.887221
575.919870	575.951266	575.981470	576.010537	576.038526
576.065491	576.091487	576.116570	576.140792	576.164208
576.186871	576.208832	576.230142	576.250853	576.271012
576.290670	576.309871	576.328661	576.347083	576.365178
576.382986	576.400542	576.417881	576.435038	576.452042
576.468925	576.485716	576.502447	576.519148	576.535851
576.552592	576.569407	576.586334	576.603416	576.620697
576.638224	576.656049	576.674224	576.692807	576.711857

Row 3

575.182758	575.181687	575.171919	575.154822	575.131456
575.102682	575.069227	575.031732	574.990779	574.946914
574.900653	574.852495	574.802921	574.752395	574.701361
574.650240	574.599426	574.549282	574.500137	574.452283
574.405974	574.361425	574.318823	574.278337	574.240147
574.204467	574.171583	574.141834	574.115496	574.092486
574.072028	574.052791	574.033384	574.012543	574.021775
574.187647	574.331519	574.457595	574.568787	574.668284
574.758996	574.842881	574.921156	574.994622	575.063852
575.129292	575.191305	575.250203	575.306260	575.359714
575.410772	575.459606	575.506359	575.551153	575.594089
575.635257	575.674736	575.712602	575.748926	575.783776
575.817218	575.849318	575.880137	575.909737	575.938178
575.965520	575.991821	576.017140	576.041535	576.065064
576.087783	576.109750	576.131018	576.151643	576.171676
576.191171	576.210176	576.228739	576.246907	576.264724
576.282228	576.299458	576.316450	576.333235	576.349845
576.366308	576.382653	576.398910	576.415107	576.431277
576.447452	576.463669	576.479967	576.496387	576.512976
576.529781	576.546855	576.564252	576.582032	576.600255

Row 4

575.027446	575.040507	575.043096	575.037007	575.023603
575.003969	574.978997	574.949450	574.916001	574.879257
574.839782	574.798100	574.754710	574.710079	574.664651
574.618841	574.573036	574.527591	574.482830	574.439041
574.396481	574.355375	574.315923	574.278312	574.242723
574.209352	574.178400	574.150052	574.124377	574.101198
574.079979	574.059892	574.039992	574.019330	573.996903
573.971397	574.140933	574.284386	574.405573	574.511303
574.607197	574.695811	574.778429	574.855866	574.928710
574.997428	575.062410	575.124004	575.182525	575.238250
575.291415	575.342212	575.390797	575.437295	575.481808
575.524427	575.565234	575.604306	575.641717	575.677542
575.711850	575.744713	575.776197	575.806367	575.835289
575.863027	575.889643	575.915202	575.939767	575.963399
575.986162	576.008114	576.029318	576.049830	576.069708
576.089007	576.107783	576.126086	576.143966	576.161469
576.178636	576.195508	576.212118	576.228499	576.244680
576.260688	576.276550	576.292292	576.307942	576.323530
576.339087	576.354649	576.370255	576.385947	576.401771
576.417776	576.434016	576.450548	576.467433	576.484733

Row 5

574.872458	574.899563	574.914473	574.919360	574.915875
574.905318	574.888742	574.867030	574.840946	574.811165
574.778297	574.742901	574.705494	574.666555	574.626534
574.585843	574.544867	574.503957	574.463432	574.423582
574.384665	574.346911	574.310527	574.275704	574.242621
574.211446	574.182328	574.155370	574.130572	574.107769
574.086595	574.066522	574.046947	574.027269	574.006924
573.985317	573.961312	574.100261	574.230907	574.341846
574.443809	574.538342	574.626414	574.708786	574.786060
574.858730	574.927230	574.991967	575.053327	575.111654
575.167230	575.220275	575.270955	575.319398	575.365708

575.409973	575.452277	575.492701	575.531324	575.568229
575.603492	575.637192	575.669400	575.700189	575.729627
575.757786	575.784733	575.810537	575.835269	575.858995
575.881784	575.903702	575.924815	575.945184	575.964874
575.983944	576.002453	576.020458	576.038011	576.055163
576.071957	576.088434	576.104629	576.120572	576.136290
576.151808	576.167148	576.182335	576.197392	576.212348
576.227231	576.242077	576.256923	576.271813	576.286793
576.301913	576.317228	576.332798	576.348685	576.364955

Row 6

574.718719	574.759697	574.786811	574.802559	574.808874
574.807270	574.798954	574.784927	574.766043	574.743044
574.716592	574.687282	574.655655	574.622207	574.587394
574.551632	574.515307	574.478767	574.442332	574.406289
574.370899	574.336394	574.302986	574.270865	574.240204
574.211153	574.183834	574.158317	574.134590	574.112535
574.091918	574.072418	574.053693	574.035462	574.017617
574.000479	573.985743	573.986041	574.034168	574.152669
574.263821	574.366738	574.462208	574.551074	574.634032
574.711653	574.784444	574.852921	574.917606	574.978964
575.037351	575.093020	575.146146	575.196856	575.245249
575.291413	575.335430	575.377388	575.417378	575.455492
575.491820	575.526447	575.559455	575.590922	575.620922
575.649533	575.676828	575.702886	575.727783	575.751593
575.774392	575.796253	575.817245	575.837439	575.856903
575.875703	575.893903	575.911567	575.928751	575.945511
575.961892	575.977938	575.993682	576.009152	576.024374
576.039366	576.054148	576.068738	576.083156	576.097426
576.111575	576.125638	576.139651	576.153658	576.167705
576.181845	576.196133	576.210633	576.225408	576.240529

Row 7

574.566688	574.621597	574.660802	574.687234	574.703179
574.710359	574.710128	574.703601	574.691719	574.675298
574.655053	574.631618	574.605562	574.577399	574.547594
574.516572	574.484718	574.452383	574.419886	574.387513
574.355527	574.324163	574.293631	574.264124	574.235809
574.208831	574.183298	574.159276	574.136769	574.115709
574.095964	574.077365	574.059757	574.043080	574.027510
574.013727	574.003516	573.999712	573.998782	573.998017
574.058927	574.175067	574.281377	574.379328	574.469978
574.554087	574.632288	574.705296	574.773931	574.838889
574.900633	574.959442	575.015492	575.068903	575.119764
575.168154	575.214162	575.257885	575.299433	575.338917
575.376445	575.412113	575.446015	575.478234	575.508853
575.537955	575.565624	575.591946	575.617006	575.640890
575.663680	575.685456	575.706298	575.726279	575.745474
575.763957	575.781800	575.799072	575.815838	575.832159
575.848086	575.863661	575.878918	575.893883	575.908576
575.923009	575.937195	575.951147	575.964877	575.978405
575.991757	576.004963	576.018061	576.031094	576.044111
576.057164	576.070311	576.083617	576.097150	576.110986

Row 8

574.416439	574.486000	574.537085	574.573955	574.599333
574.615107	574.622757	574.623510	574.618403	574.608329
574.594060	574.576274	574.555569	574.532477	574.507478
574.481003	574.453439	574.425141	574.396425	574.367581
574.338870	574.310529	574.282770	574.255787	574.229746
574.204790	574.181031	574.158542	574.137350	574.117437
574.098747	574.081214	574.064799	574.049561	574.035743
574.023888	574.014859	574.009179	574.005860	574.003719
574.002290	574.000955	574.076501	574.188134	574.289891
574.383036	574.468349	574.546899	574.620266	574.689618
574.755504	574.818191	574.877841	574.934555	574.988407
575.039466	575.087822	575.133600	575.176943	575.217995
575.256890	575.293743	575.328658	575.361725	575.393035
575.422680	575.450753	575.477352	575.502575	575.526521
575.549281	575.570946	575.591600	575.611325	575.630202
575.648314	575.665741	575.682563	575.698855	575.714684
575.730108	575.745171	575.759906	575.774334	575.788468
575.802312	575.815869	575.829141	575.842135	575.854863
575.867345	575.879613	575.891705	575.903663	575.915538
575.927383	575.939257	575.951228	575.963369	575.975761

Row 9

574.270271	574.354080	574.416118	574.463166	574.497843
574.522033	574.537336	574.545112	574.546516	574.542528
574.533983	574.521602	574.506014	574.487773	574.467370
574.445243	574.421786	574.397352	574.372259	574.346796
574.321225	574.295785	574.270689	574.246133	574.222288
574.199302	574.177293	574.156348	574.136523	574.117837
574.100291	574.083883	574.068640	574.054656	574.042136
574.031410	574.022835	574.016501	574.011997	574.008710
574.006122	574.003728	574.001009	573.997434	574.087045
574.193991	574.289344	574.374393	574.453473	574.528478

574.599731	574.667403	574.731633	574.792514	574.850094
574.904421	574.955597	575.003793	575.049222	575.092088
575.132563	575.170785	575.206868	575.240910	575.273006
575.303258	575.331773	575.358665	575.384052	575.408046
575.430755	575.452277	575.472703	575.492124	575.510626
575.528300	575.545240	575.561540	575.577289	575.592565
575.607434	575.621942	575.636119	575.649981	575.663531
575.676761	575.689659	575.702216	575.714423	575.726287
575.737822	575.749060	575.760039	575.770806	575.781412
575.791910	575.802359	575.812829	575.823399	575.834160

Row 10

574.142977	574.225527	574.297608	574.355170	574.399230
574.431684	574.454372	574.468867	574.476475	574.478277
574.475175	574.467936	574.457218	574.443596	574.427573
574.409594	574.390055	574.369310	574.347676	574.325443
574.302872	574.280202	574.257652	574.235420	574.213685
574.192602	574.172302	574.152890	574.134442	574.117013
574.100641	574.085361	574.071231	574.058341	574.046838
574.036900	574.028670	574.022133	574.017052	574.013060
574.009763	574.006775	574.003728	574.000277	573.996091
573.990652	574.092345	574.181342	574.268211	574.351332
574.430008	574.504386	574.574677	574.641007	574.703397
574.761838	574.816447	574.867511	574.915383	574.960372
575.002704	575.042540	575.080001	575.115187	575.148195
575.179137	575.208140	575.235344	575.260893	575.284921
575.307554	575.328901	575.349058	575.368119	575.386178
575.403335	575.419700	575.435387	575.450506	575.465155
575.479407	575.493314	575.506902	575.520176	575.533125
575.545725	575.557945	575.569753	575.581127	575.592057
575.602555	575.612653	575.622397	575.631837	575.641027
575.650017	575.658863	575.667635	575.676417	575.685315

Row 11

574.208205	574.093135	574.180550	574.250475	574.304182
574.344685	574.374405	574.395233	574.408680	574.415939
574.417974	574.415593	574.409484	574.400240	574.388374
574.374337	574.358525	574.341290	574.322950	574.303790
574.284071	574.264035	574.243904	574.223884	574.204160
574.184901	574.166251	574.148333	574.131245	574.115066
574.099860	574.085685	574.072606	574.060700	574.050064
574.040788	574.032921	574.026419	574.021119	574.016777
574.013117	574.009866	574.006790	574.003741	574.000773
573.998637	574.002084	574.005180	574.055195	574.151462
574.241138	574.325022	574.403700	574.477488	574.546378
574.610186	574.669024	574.723485	574.774236	574.821749
574.866312	574.908103	574.947235	574.983799	575.017891
575.049632	575.079178	575.106711	575.132415	575.156460
575.178993	575.200133	575.219979	575.238622	575.256157
575.272696	575.288369	575.303324	575.317703	575.331631
575.345197	575.358455	575.371425	575.384098	575.396443
575.408413	575.419949	575.430990	575.441484	575.451405
575.460758	575.469583	575.477940	575.485892	575.493493
575.500788	575.507821	575.514654	575.521376	575.528117

Row 12

574.735289	574.211730	574.065767	574.150842	574.213656
574.261782	574.297995	574.324641	574.343503	574.355851
574.362689	574.364864	574.363090	574.357975	574.350039
574.339735	574.327457	574.313554	574.298337	574.282090
574.265071	574.247523	574.229674	574.211739	574.193915
574.176383	574.159306	574.142823	574.127052	574.112093
574.098025	574.084920	574.072841	574.061851	574.052010
574.043360	574.035908	574.029598	574.024311	574.019875
574.016098	574.012798	574.009838	574.007182	574.005000
574.003860	574.004436	574.004924	574.003859	574.002187
574.024038	574.122399	574.213393	574.297998	574.376324
574.447518	574.511506	574.569911	574.624088	574.674687
574.722023	574.766261	574.807491	574.845776	574.881192
574.913872	574.944020	574.971889	574.997733	575.021775
575.044187	575.065096	575.084595	575.102762	575.119681
575.135471	575.150293	575.164347	575.177835	575.190922
575.203720	575.216282	575.228615	575.240691	575.252451
575.263815	575.274687	575.284960	575.294538	575.303362
575.311432	575.318809	575.325586	575.331851	575.337662
575.343045	575.348017	575.352614	575.356925	575.361110

Row 13

575.156462	574.755857	574.237188	574.057850	574.128453
574.183939	574.225667	574.257432	574.281272	574.298324
574.309604	574.316013	574.318289	574.317049	574.312813
574.306032	574.297097	574.286347	574.274084	574.260585
574.246106	574.230892	574.215176	574.199185	574.183131
574.167213	574.151611	574.136484	574.121970	574.108181
574.095213	574.083140	574.072024	574.061912	574.052841
574.044822	574.037840	574.031840	574.026727	574.022376
574.018651	574.015431	574.012632	574.010247	574.008378

574.007209	574.006717	574.006301	574.005442	574.004209
574.002768	574.001213	573.999641	574.095503	574.189202
574.271766	574.341163	574.403956	574.462384	574.516955
574.567898	574.615338	574.659319	574.699843	574.736937
574.770735	574.801530	574.829714	574.855665	574.879679
574.901961	574.922635	574.941773	574.959417	574.975618
574.990483	575.004220	575.017126	575.029506	575.041596
575.053530	575.065353	575.077046	575.088551	575.099776
575.110598	575.120869	575.130416	575.139062	575.146687
575.153281	575.158959	575.163893	575.168220	575.172003
575.175227	575.177849	575.179840	575.181265	575.182331

Row 14

575.518543	575.184656	574.785595	574.267890	574.050032
574.113130	574.157454	574.193730	574.222300	574.243647
574.258961	574.269265	574.275305	574.277683	574.276917
574.273454	574.267674	574.259903	574.250428	574.239513
574.227408	574.214359	574.200612	574.186406	574.171974
574.157536	574.143293	574.129426	574.116088	574.103410
574.091495	574.080420	574.070241	574.060992	574.052688
574.045324	574.038871	574.033273	574.028451	574.024311
574.020753	574.017691	574.015066	574.012865	574.011113
574.009836	574.008942	574.008184	574.007344	574.006395
574.005442	574.004673	574.004457	574.005688	574.011503
574.084101	574.152249	574.220666	574.285045	574.345136
574.401054	574.452900	574.500674	574.544277	574.583597
574.618733	574.650163	574.678572	574.704560	574.728525
574.750694	574.771173	574.789987	574.807106	574.822490
574.836188	574.848468	574.859825	574.870775	574.881660
574.892625	574.903680	574.914760	574.925759	574.936542
574.946944	574.956751	574.965692	574.973448	574.979752
574.984568	574.988148	574.990849	574.992912	574.994390
574.995189	574.995136	574.994063	574.991936	574.989018

Row 15

575.842154	575.553514	575.223449	574.831591	574.334412
574.051382	574.090770	574.133665	574.167117	574.192083
574.210928	574.224803	574.234330	574.240071	574.242548
574.242204	574.239403	574.234448	574.227602	574.219107
574.209203	574.198139	574.186175	574.173574	574.160593
574.147478	574.134457	574.121732	574.109479	574.097841
574.086931	574.076824	574.067567	574.059181	574.051662
574.044988	574.039120	574.034000	574.029559	574.025722
574.022412	574.019563	574.017127	574.015079	574.013408
574.012089	574.011049	574.010169	574.009353	574.008590
574.007969	574.007696	574.008172	574.010236	574.015504
574.020865	574.018911	574.016354	574.085176	574.153655
574.216904	574.275172	574.328500	574.376653	574.419153
574.455853	574.487691	574.516080	574.541993	574.565914
574.588054	574.608464	574.627094	574.643794	574.658328
574.670521	574.680681	574.689778	574.698796	574.708214
574.718118	574.728416	574.738955	574.749567	574.760069
574.770254	574.779852	574.788471	574.795532	574.800392
574.802883	574.803640	574.803491	574.802853	574.801717
574.799823	574.796771	574.792096	574.785454	574.777093

Row 16

576.138419	575.883711	575.599596	575.275286	574.891782
574.397677	574.023102	574.079698	574.116905	574.143583
574.165513	574.182778	574.195537	574.204380	574.209873
574.212461	574.212483	574.210204	574.205843	574.199608
574.191724	574.182446	574.172056	574.160849	574.149119
574.137145	574.125184	574.113466	574.102189	574.091514
574.081559	574.072398	574.064063	574.056556	574.049853
574.043914	574.038686	574.034111	574.030124	574.026660
574.023659	574.021067	574.018843	574.016955	574.015380
574.014083	574.013014	574.012109	574.011325	574.010668
574.010210	574.010106	574.010605	574.012025	574.014320
574.015895	574.015128	574.012709	574.008963	574.003607
574.007365	574.075703	574.137752	574.193306	574.241027
574.279290	574.310595	574.338442	574.364169	574.388157
574.410485	574.431106	574.449877	574.466514	574.480447
574.490737	574.497360	574.502774	574.509106	574.516793
574.525614	574.535248	574.545403	574.555828	574.566295
574.576576	574.586394	574.595291	574.602317	574.605750
574.604699	574.601123	574.597115	574.593210	574.589130
574.584308	574.578001	574.569220	574.556710	574.540073

Row 17

576.414133	576.186525	575.936441	575.656906	575.336613
574.954410	574.467112	574.042428	574.071723	574.096569
574.122669	574.143440	574.159095	574.170731	574.179018
574.184374	574.187097	574.187391	574.185402	574.181279
574.175221	574.167500	574.158438	574.148380	574.137668
574.126620	574.115530	574.104660	574.094237	574.084440
574.075395	574.067167	574.059771	574.053178	574.047338
574.042188	574.037660	574.033691	574.030218	574.027185

574.024542	574.022244	574.020257	574.018551	574.017099
574.015872	574.014832	574.013946	574.013192	574.012578
574.012151	574.011994	574.012204	574.012804	574.013526
574.013660	574.012566	574.010151	574.006437	574.001284
573.994437	573.985561	573.974178	573.987646	574.047045
574.084704	574.112308	574.138974	574.164667	574.189131
574.212154	574.233543	574.253080	574.270451	574.284946
574.293715	574.292649	574.291270	574.294079	574.299969
574.307880	574.317113	574.327192	574.337770	574.348579
574.359405	574.370064	574.380319	574.389326	574.392649
574.384289	574.372863	574.363513	574.355701	574.348330
574.340362	574.330670	574.317683	574.298236	574.266378

Row 18

576.673845	576.468954	576.246074	576.000260	575.724262
575.406854	575.029754	574.559401	574.001726	574.048806
574.083628	574.107360	574.125079	574.139165	574.150053
574.158046	574.163406	574.166241	574.166564	574.164421
574.159976	574.153539	574.145505	574.136301	574.126331
574.115961	574.105523	574.095315	574.085602	574.076591
574.068418	574.061133	574.054716	574.049099	574.044189
574.039894	574.036129	574.032824	574.029918	574.027362
574.025116	574.023145	574.021421	574.019919	574.018617
574.017491	574.016515	574.015668	574.014938	574.014326
574.013854	574.013549	574.013420	574.013395	574.013251
574.012620	574.011161	574.008698	574.005148	574.000413
573.994372	573.986903	573.977949	573.967754	573.958465
573.954259	573.960258	573.970341	573.981417	573.992350
574.002532	574.011551	574.027038	574.046448	574.064033
574.083164	574.050941	574.039512	574.039179	574.043851
574.051439	574.060874	574.071495	574.082860	574.094662
574.106718	574.119010	574.131896	574.146998	574.165785
574.127648	574.102403	574.086532	574.074187	574.063000
574.051430	574.038068	574.021251	573.999204	573.923498

Row 19

576.920760	576.735651	576.535726	576.317256	576.075116
575.801984	575.486677	575.108675	574.618973	574.010566
574.053613	574.074692	574.093066	574.109642	574.122989
574.133507	574.141532	574.147005	574.149684	574.149415
574.146326	574.140818	574.133434	574.124724	574.115175
574.105197	574.095155	574.085388	574.076214	574.067889
574.060563	574.054262	574.048907	574.044361	574.040476
574.037118	574.034185	574.031599	574.029306	574.027264
574.025445	574.023825	574.022386	574.021109	574.019977
574.018975	574.018083	574.017288	574.016578	574.015950
574.015405	574.014939	574.014519	574.014063	574.013409
574.012340	574.010648	574.008190	574.004883	574.000673
573.995537	573.989526	573.982864	573.976195	573.970998
573.969312	573.972284	573.978580	573.986407	573.994633
574.002560	574.009716	574.015765	574.020522	574.024137
574.026279	574.016124	574.004062	573.997890	573.995918
573.996752	573.999512	574.003608	574.008626	574.014285
574.020435	574.027127	574.034862	574.045422	574.059001
574.044008	574.027198	574.017139	574.010469	574.005157
573.999818	573.993291	573.984485	573.972355	573.953685

Row 20

577.157194	576.989830	576.810051	576.614892	576.400413
576.161190	575.889287	575.571951	575.187063	574.692230
574.049615	574.038175	574.062224	574.082432	574.097751
574.110624	574.121521	574.129990	574.135258	574.136791
574.134694	574.129611	574.122373	574.113722	574.104231
574.094330	574.084387	574.074786	574.065934	574.058179
574.051704	574.046484	574.042336	574.039012	574.036280
574.033959	574.031929	574.030114	574.028469	574.026968
574.025597	574.024346	574.023206	574.022167	574.021222
574.020358	574.019565	574.018830	574.018145	574.017499
574.016883	574.016277	574.015639	574.014896	574.013934
574.012616	574.010813	574.008428	574.005407	574.001738
573.997469	573.992737	573.987850	573.983390	573.980260
573.979427	573.981322	573.985486	573.991033	573.997154
574.003240	574.008837	574.013599	574.017253	574.019448
574.019095	574.014715	574.008842	574.004746	574.003083
574.003505	574.005537	574.008768	574.012873	574.017609
574.022818	574.028443	574.034504	574.040660	574.043857
574.039071	574.030487	574.022979	574.017056	574.012017
574.007059	574.001456	573.994607	573.986130	573.976528

Row 21

577.384843	577.233771	577.072213	576.897717	576.707086
576.496032	576.258570	575.985947	575.664711	575.272005
574.755756	573.986652	574.037556	574.058699	574.073741
574.088909	574.103251	574.115611	574.124091	574.127352
574.125622	574.120179	574.112402	574.103296	574.093485
574.083341	574.073163	574.063363	574.054522	574.047189
574.041621	574.037685	574.034994	574.033118	574.031709

574.030539	574.029482	574.028477	574.027503	574.026557
574.025644	574.024768	574.023934	574.023143	574.022393
574.021678	574.020993	574.020328	574.019674	574.019018
574.018347	574.017636	574.016845	574.015916	574.014771
574.013324	574.011495	574.009226	574.006498	574.003333
573.999810	573.996095	573.992475	573.989383	573.987366
573.986919	573.988247	573.991145	573.995138	573.999694
574.004339	574.008681	574.012394	574.015180	574.016691
574.016470	574.014425	574.011580	574.009328	574.008377
574.008820	574.010488	574.013142	574.016549	574.020503
574.024824	574.029337	574.033756	574.037374	574.038704
574.036586	574.032143	574.027273	574.022813	574.018763
574.014820	574.010657	574.006075	574.001197	573.996839

Row 22

577.604946	577.469109	577.324424	577.168814	576.999601
576.813264	576.605061	576.368393	576.093660	575.765655
575.356746	574.809894	574.039489	574.035064	574.048719
574.067453	574.086163	574.104544	574.117697	574.122418
574.119763	574.112652	574.103426	574.093314	574.082862
574.072234	574.061460	574.050920	574.041569	574.034445
574.029956	574.027705	574.026899	574.026800	574.026923
574.027018	574.026987	574.026812	574.026513	574.026117
574.025656	574.025152	574.024623	574.024081	574.023530
574.022971	574.022401	574.021814	574.021200	574.020549
574.019843	574.019060	574.018167	574.017123	574.015874
574.014369	574.012563	574.010430	574.007976	574.005242
574.002322	573.999372	573.996628	573.994395	573.993010
573.992748	573.993716	573.995803	573.998729	574.002145
574.005699	574.009073	574.011989	574.014200	574.015477
574.015666	574.014884	574.013654	574.012663	574.012394
574.013030	574.014551	574.016837	574.019729	574.023056
574.026635	574.030248	574.033564	574.036058	574.037056
574.036213	574.033948	574.031066	574.028138	574.025364
574.022730	574.020181	574.017764	574.015771	574.014862

Row 23

577.818393	577.697007	577.568234	577.430292	577.280898
577.117095	576.934984	576.729307	576.492722	576.214418
575.877353	575.451996	574.871753	573.974455	574.024264
574.045221	574.067871	574.098242	574.119372	574.124218
574.117656	574.106727	574.095023	574.083428	574.072202
574.061134	574.049457	574.037238	574.026341	574.019070
574.016126	574.016376	574.018162	574.020286	574.022165
574.023609	574.024618	574.025257	574.025605	574.025735
574.025704	574.025556	574.025323	574.025024	574.024672
574.024272	574.023823	574.023321	574.022758	574.022123
574.021402	574.020576	574.019620	574.018506	574.017202
574.015679	574.013918	574.011917	574.009698	574.007314
574.004858	574.002466	574.000319	573.998631	573.997618
573.997439	573.998153	573.999691	574.001875	574.004467
574.007211	574.009862	574.012203	574.014046	574.015256
574.015787	574.015760	574.015475	574.015311	574.015576
574.016436	574.017923	574.019983	574.022510	574.025368
574.028392	574.031378	574.034058	574.036095	574.037166
574.037147	574.036236	574.034823	574.033270	574.031799
574.030524	574.029543	574.029023	574.029281	574.030821

Row 24

578.025799	577.918265	577.804702	577.683574	577.552923
577.410229	577.252223	577.074588	576.871502	576.634842
576.352748	576.006507	575.562333	574.949586	574.029618
574.014534	574.038326	574.101795	574.137032	574.136169
574.118665	574.100976	574.086360	574.072983	574.061097
574.050514	574.038036	574.022197	574.007335	573.999322
573.999232	574.003662	574.009149	574.014005	574.017793
574.020582	574.022571	574.023954	574.024888	574.025492
574.025853	574.026035	574.026079	574.026013	574.025855
574.025613	574.025288	574.024878	574.024375	574.023771
574.023051	574.022203	574.021210	574.020054	574.018720
574.017197	574.015484	574.013595	574.011564	574.009449
574.007335	574.005336	574.003592	574.002253	574.001460
574.001310	574.001836	574.002988	574.004647	574.006646
574.008800	574.010925	574.012856	574.014460	574.015654
574.016429	574.016874	574.017174	574.017553	574.018210
574.019269	574.020774	574.022703	574.024985	574.027517
574.030164	574.032760	574.035111	574.037008	574.038285
574.038896	574.038950	574.038669	574.038293	574.038023
574.038022	574.038453	574.039529	574.041548	574.044903

Row 25

578.227556	578.133399	578.034510	577.929577	577.816920
577.694387	577.559203	577.407770	577.235352	577.035605
576.799756	576.515083	576.161812	575.705848	575.069869
573.789051	573.977427	574.136513	574.189163	574.161376
574.117216	574.091708	574.077019	574.060935	574.047976
574.041672	574.030420	574.006143	573.980872	573.971385

573.978148	573.990150	574.000775	574.008681	574.014293
574.018248	574.021048	574.023039	574.024455	574.025458
574.026158	574.026632	574.026928	574.027081	574.027110
574.027025	574.026827	574.026514	574.026080	574.025516
574.024811	574.023955	574.022940	574.021757	574.020403
574.018881	574.017203	574.015397	574.013502	574.011579
574.009706	574.007976	574.006498	574.005379	574.004714
574.004565	574.004947	574.005824	574.007109	574.008684
574.010412	574.012159	574.013801	574.015244	574.016435
574.017373	574.018122	574.018796	574.019537	574.020472
574.021692	574.023236	574.025098	574.027229	574.029553
574.031967	574.034349	574.036563	574.038481	574.040014
574.041147	574.041954	574.042579	574.043196	574.043980
574.045103	574.046748	574.049135	574.052533	574.057261

Row 26

578.423870	578.342687	578.258042	578.168829	578.073623
577.970590	577.857373	577.730941	577.587375	577.421575
577.226806	576.993921	576.709905	576.354396	575.889014
575.224256	574.093412	574.264374	574.312885	574.192865
574.090648	574.072976	574.072028	574.045567	574.025449
574.037790	574.037757	573.990889	573.935965	573.926133
573.953068	573.978336	573.994872	574.005338	574.012203
574.016899	574.020217	574.022616	574.024379	574.025686
574.026660	574.027381	574.027902	574.028256	574.028464
574.028533	574.028465	574.028255	574.027897	574.027381
574.026700	574.025845	574.024815	574.023607	574.022230
574.020698	574.019034	574.017273	574.015462	574.013662
574.011944	574.010388	574.009078	574.008094	574.007500
574.007337	574.007609	574.008288	574.009307	574.010581
574.012007	574.013484	574.014923	574.016256	574.017445
574.018491	574.019437	574.020356	574.021340	574.022472
574.023818	574.025409	574.027243	574.029292	574.031499
574.033791	574.036080	574.038276	574.040300	574.042104
574.043690	574.045115	574.046484	574.047932	574.049613
574.051690	574.054345	574.057786	574.062254	574.068017

Row 27

578.614792	578.546217	578.475438	578.401549	578.323366
578.239347	578.147498	578.045251	577.929316	577.795494
577.638422	577.451224	577.224902	576.947177	576.600308
576.158746	575.585347	574.781505	574.559571	574.177203
573.957008	574.057333	574.096665	574.023431	573.960073
574.047870	574.094524	573.982142	573.834249	573.842653
573.934027	573.974522	573.994031	574.004962	574.011917
574.016709	574.020167	574.022739	574.024693	574.026202
574.027380	574.028302	574.029019	574.029558	574.029937
574.030159	574.030224	574.030123	574.029849	574.029389
574.028737	574.027888	574.026841	574.025604	574.024192
574.022628	574.020946	574.019188	574.017409	574.015669
574.014034	574.012577	574.011364	574.010455	574.009897
574.009714	574.009905	574.010442	574.011276	574.012339
574.013553	574.014843	574.016142	574.017398	574.018584
574.019701	574.020775	574.021857	574.023004	574.024277
574.025719	574.027356	574.029192	574.031206	574.033363
574.035610	574.037888	574.040138	574.042313	574.044389
574.046375	574.048319	574.050306	574.052447	574.054874
574.057737	574.061207	574.065474	574.070754	574.077279

Row 28

578.800244	578.743914	578.686635	578.627704	578.566169
578.500768	578.429835	578.351197	578.262055	578.158852
578.037137	577.891445	577.715204	577.500740	577.239667
576.924488	576.552557	576.138979	575.735930	575.402761
575.182397	575.100461	575.037757	574.922406	574.805935
574.730749	574.631612	574.451798	574.205466	573.844810
573.954007	573.986280	573.999682	574.007717	574.013400
574.017635	574.020869	574.023389	574.025389	574.027002
574.028319	574.029402	574.030288	574.030999	574.031544
574.031922	574.032125	574.032142	574.031960	574.031564
574.030946	574.030100	574.029032	574.027752	574.026283
574.024658	574.022920	574.021120	574.019317	574.017577
574.015964	574.014544	574.013374	574.012501	574.011956
574.011754	574.011887	574.012330	574.013039	574.013960
574.015032	574.016195	574.017398	574.018602	574.019786
574.020949	574.022107	574.023296	574.024554	574.025925
574.027440	574.029121	574.030974	574.032988	574.035139
574.037395	574.039715	574.042063	574.044412	574.046750
574.049092	574.051480	574.053982	574.056693	574.059727
574.063220	574.067325	574.072217	574.078086	574.085140

Row 29

578.980039	578.935568	578.891404	578.847048	578.801789
578.754639	578.704246	578.648791	578.585870	578.512377
578.424408	578.317242	578.183821	578.016542	577.813923
577.576477	577.309006	577.024332	576.742957	576.484686
576.267370	576.092425	575.933894	575.769517	575.600186

575.426830	575.231105	574.988690	574.678861	574.254729
574.020964	574.009583	574.008953	574.012314	574.016092
574.019411	574.022182	574.024486	574.026417	574.028055
574.029460	574.030670	574.031708	574.032583	574.033294
574.033834	574.034187	574.034334	574.034254	574.033931
574.033350	574.032506	574.031404	574.030062	574.028508
574.026784	574.024944	574.023048	574.021166	574.019367
574.017720	574.016286	574.015118	574.014251	574.013709
574.013493	574.013593	574.013979	574.014612	574.015445
574.016428	574.017511	574.018654	574.019825	574.021008
574.022199	574.023412	574.024670	574.026002	574.027440
574.029009	574.030729	574.032608	574.034642	574.036818
574.039116	574.041513	574.043985	574.046516	574.049104
574.051764	574.054531	574.057462	574.060638	574.064156
574.068136	574.072715	574.078050	574.084313	574.091690

Row 30

579.153903	579.120860	579.089374	579.059161	579.029760
579.000470	578.970257	578.937644	578.900577	578.856273
578.799250	578.717223	578.608177	578.471843	578.308712
578.120829	577.912824	577.692547	577.469722	577.252189
577.041555	576.832304	576.627121	576.420345	576.206945
575.981146	575.731374	575.440560	575.084733	574.619949
574.076617	574.021720	574.015508	574.016840	574.019250
574.021674	574.023902	574.025902	574.027695	574.029309
574.030769	574.032086	574.033267	574.034306	574.035192
574.035907	574.036426	574.036720	574.036761	574.036521
574.035981	574.035134	574.033984	574.032553	574.030877
574.029008	574.027011	574.024960	574.022935	574.021018
574.019281	574.017789	574.016590	574.015712	574.015168
574.014951	574.015041	574.015407	574.016007	574.016797
574.017734	574.018774	574.019884	574.021038	574.022221
574.023431	574.024677	574.025976	574.027354	574.028834
574.030440	574.032191	574.034098	574.036163	574.038383
574.040746	574.043238	574.045848	574.048564	574.051388
574.054333	574.057427	574.060716	574.064265	574.068157
574.072497	574.077405	574.083021	574.089503	574.097019

Row 31

579.321498	579.299383	579.280061	579.263474	579.249427
579.237526	579.227085	579.216998	579.205568	579.185302
579.142337	579.076002	578.986351	578.873759	578.739235
578.584796	578.413774	578.230680	578.040208	577.845387
577.645630	577.435589	577.206327	576.966587	576.718947
576.456962	576.170648	575.844975	575.455800	574.953268
574.148461	574.008897	574.018215	574.020825	574.022453
574.024119	574.025822	574.027498	574.029126	574.030695
574.032197	574.033619	574.034946	574.036160	574.037237
574.038148	574.038858	574.039325	574.039509	574.039370
574.038879	574.038024	574.036807	574.035255	574.033411
574.031339	574.029119	574.026842	574.024605	574.022503
574.020622	574.019030	574.017774	574.016875	574.016335
574.016136	574.016246	574.016626	574.017232	574.018020
574.018947	574.019976	574.021075	574.022224	574.023410
574.024630	574.025892	574.027212	574.028611	574.030113
574.031740	574.033512	574.035444	574.037544	574.039815
574.042255	574.044855	574.047609	574.050511	574.053559
574.056763	574.060141	574.063727	574.067573	574.071745
574.076332	574.081440	574.087193	574.093733	574.101218

Row 32

579.482439	579.470667	579.462894	579.459296	579.459964
579.464845	579.473648	579.485705	579.494921	579.484065
579.451933	579.398727	579.324772	579.230653	579.117377
578.986516	578.840226	578.680987	578.510947	578.330957
578.139617	577.932734	577.703373	577.444007	577.169434
576.880494	576.567989	576.218115	575.808633	575.297048
574.576103	574.014411	574.025072	574.025131	574.025528
574.026530	574.027766	574.029135	574.030604	574.032136
574.033692	574.035232	574.036722	574.038130	574.039423
574.040561	574.041497	574.042175	574.042535	574.042523
574.042094	574.041226	574.039921	574.038207	574.036139
574.033795	574.031271	574.028683	574.026149	574.023787
574.021701	574.019970	574.018637	574.017719	574.017200
574.017046	574.017211	574.017644	574.018296	574.019118
574.020069	574.021114	574.022223	574.023378	574.024567
574.025790	574.027055	574.028376	574.029776	574.031278
574.032907	574.034687	574.036636	574.038769	574.041094
574.043615	574.046331	574.049234	574.052321	574.055585
574.059028	574.062659	574.066497	574.070576	574.074949
574.079686	574.084878	574.090636	574.097091	574.104386

Row 33

579.636319	579.634209	579.637248	579.645852	579.660417
579.681265	579.708563	579.740461	579.757444	579.754407
579.731655	579.689514	579.628402	579.548903	579.451840
579.338303	579.209577	579.066907	578.911076	578.741861

578.557523	578.354472	578.127161	577.868004	577.574435
577.265036	576.933737	576.567901	576.148125	575.641329
574.980165	574.060902	574.035843	574.028262	574.028120
574.028769	574.029595	574.030679	574.032021	574.033555
574.035198	574.036885	574.038564	574.040195	574.041738
574.043145	574.044356	574.045297	574.045884	574.046036
574.045689	574.044806	574.043387	574.041464	574.039103
574.036400	574.033474	574.030467	574.027532	574.024820
574.022462	574.020550	574.019132	574.018208	574.017741
574.017674	574.017939	574.018470	574.019209	574.020103
574.021109	574.022194	574.023330	574.024500	574.025694
574.026913	574.028166	574.029470	574.030848	574.032328
574.033939	574.035708	574.037661	574.039818	574.042195
574.044799	574.047632	574.050690	574.053965	574.057444
574.061119	574.064983	574.069040	574.073306	574.077814
574.082617	574.087792	574.093437	574.099671	574.106630

Row 34

579.782734	579.789500	579.802475	579.822321	579.849741
579.885461	579.930173	579.972175	579.994998	579.998942
579.984370	579.951652	579.901200	579.833510	579.749182
579.648898	579.533332	579.402966	579.257812	579.097086
578.918896	578.720005	578.495668	578.239418	577.942698
577.618016	577.273742	576.898229	576.474442	575.975159
575.349382	574.461466	574.018852	574.027813	574.030531
574.030874	574.031173	574.031983	574.033267	574.034874
574.036665	574.038543	574.040445	574.042331	574.044164
574.045893	574.047445	574.048722	574.049607	574.049981
574.049748	574.048852	574.047288	574.045097	574.042360
574.039192	574.035739	574.032179	574.028710	574.025531
574.022818	574.020688	574.019186	574.018291	574.017930
574.018010	574.018433	574.019115	574.019985	574.020988
574.022080	574.023229	574.024407	574.025600	574.026798
574.028005	574.029230	574.030496	574.031829	574.033261
574.034828	574.036564	574.038502	574.040669	574.043089
574.045774	574.048728	574.051948	574.055418	574.059120
574.063030	574.067124	574.071384	574.075806	574.080401
574.085202	574.090270	574.095693	574.101581	574.108065

Row 35

579.921311	579.936058	579.957956	579.987889	580.026866
580.076022	580.134768	580.181362	580.209556	580.219781
580.212418	580.187830	580.146383	580.088456	580.014444
579.924711	579.819510	579.698841	579.562267	579.408693
579.236166	579.041682	578.821018	578.568485	578.276493
577.943805	577.591506	577.211395	576.788192	576.298248
575.698051	574.874799	574.006636	574.033796	574.034553
574.032785	574.032238	574.032857	574.034230	574.036035
574.038058	574.040177	574.042335	574.044506	574.046671
574.048784	574.050763	574.052481	574.053770	574.054452
574.054382	574.053476	574.051729	574.049199	574.045985
574.042224	574.038090	574.033801	574.029618	574.025818
574.022646	574.020259	574.018698	574.017899	574.017731
574.018044	574.018701	574.019595	574.020645	574.021794
574.023002	574.024235	574.025471	574.026693	574.027895
574.029078	574.030259	574.031462	574.032720	574.034074
574.035565	574.037239	574.039136	574.041294	574.043743
574.046504	574.049582	574.052974	574.056657	574.060602
574.064765	574.069104	574.073573	574.078140	574.082789
574.087534	574.092417	574.097517	574.102941	574.108817

Row 36

580.051732	580.073471	580.103140	580.141819	580.190788
580.251562	580.318714	580.369560	580.402731	580.418662
580.417731	580.400271	580.366584	580.316939	580.251555
580.170561	580.073920	579.961324	579.832061	579.684869
579.517775	579.327952	579.111548	578.863452	578.576901
578.245111	577.889316	577.509085	577.090642	576.613452
576.041689	575.295907	574.077917	574.054711	574.038726
574.033326	574.032266	574.033084	574.034827	574.037011
574.039369	574.041776	574.044206	574.046678	574.049208
574.051775	574.054295	574.056601	574.058454	574.059578
574.059741	574.058828	574.056846	574.053885	574.050076
574.045571	574.040564	574.035316	574.030172	574.025532
574.021761	574.019085	574.017530	574.016949	574.017112
574.017780	574.018766	574.019939	574.021217	574.022550
574.023899	574.025240	574.026547	574.027805	574.029006
574.030154	574.031268	574.032378	574.033527	574.034763
574.036140	574.037713	574.039536	574.041657	574.044117
574.046945	574.050152	574.053731	574.057655	574.061876
574.066333	574.070953	574.075660	574.080385	574.085080
574.089728	574.094357	574.099038	574.103881	574.109020

Row 37

580.173765	580.201426	580.237602	580.283521	580.340672
580.410874	580.483125	580.538026	580.575851	580.597029
580.601920	580.590821	580.563970	580.521539	580.463612
580.390141	580.300891	580.195355	580.072656	579.931435
579.769730	579.584855	579.373244	579.130234	578.849724
578.523812	578.168853	577.792617	577.382826	576.922109
576.382193	575.706791	574.726032	574.055546	574.034271
574.030590	574.030804	574.032546	574.035058	574.037851
574.040646	574.043356	574.046033	574.048784	574.051695
574.054786	574.057986	574.061098	574.063766	574.065541
574.066040	574.065105	574.062799	574.059293	574.054756
574.049343	574.043239	574.036728	574.030261	574.024445
574.019873	574.016893	574.015487	574.015346	574.016053
574.017244	574.018671	574.020193	574.021744	574.023288
574.024804	574.026271	574.027665	574.028966	574.030163
574.031261	574.032280	574.033261	574.034256	574.035327
574.036540	574.037965	574.039669	574.041716	574.044160
574.047043	574.050383	574.054172	574.058375	574.062927
574.067741	574.072709	574.077715	574.082643	574.087399
574.091928	574.096239	574.100404	574.104546	574.108816

Row 38

580.287281	580.319745	580.361088	580.412625	580.475964
580.553108	580.628998	580.687797	580.730018	580.756081
580.766324	580.761010	580.740320	580.704347	580.653069
580.586316	580.503717	580.404635	580.288092	580.152677
579.996457	579.816863	579.610554	579.373229	579.099326
578.781514	578.431574	578.063079	577.665293	577.223931
576.717614	576.109097	575.317942	574.053350	574.019751
574.025380	574.028089	574.031352	574.035065	574.038711
574.042009	574.044966	574.047785	574.050730	574.054000
574.057670	574.061715	574.065943	574.069845	574.072627
574.073599	574.072561	574.069767	574.065565	574.060172
574.053701	574.046262	574.038092	574.029749	574.022203
574.016511	574.013264	574.012313	574.013001	574.014584
574.016514	574.018499	574.020426	574.022275	574.024049
574.025751	574.027364	574.028864	574.030219	574.031410
574.032436	574.033326	574.034130	574.034917	574.035764
574.036753	574.037970	574.039497	574.041419	574.043810
574.046728	574.050204	574.054234	574.058771	574.063730
574.068992	574.074412	574.079820	574.085039	574.089906
574.094312	574.098241	574.101780	574.105087	574.108348

Row 39

580.392275	580.428408	580.473553	580.529037	580.596488
580.677906	580.757146	580.819722	580.866142	580.896814
580.912058	580.912104	580.897091	580.867050	580.821884
580.761335	580.684941	580.591984	580.481425	580.351832
580.201302	580.027367	579.826871	579.595803	579.329042
579.019937	578.678997	578.321534	577.938374	577.517998
577.044635	576.494187	575.824004	574.930964	574.018511
574.021139	574.024525	574.029737	574.035162	574.039909
574.043691	574.046697	574.049406	574.052363	574.055928
574.060189	574.065209	574.070994	574.076881	574.081336
574.082942	574.081517	574.077894	574.072819	574.066487
574.058870	574.049923	574.039623	574.028505	574.018212
574.010851	574.007516	574.007676	574.009894	574.012841
574.015759	574.018387	574.020729	574.022867	574.024870
574.026769	574.028555	574.030188	574.031617	574.032801
574.033734	574.034449	574.035015	574.035524	574.036075
574.036766	574.037699	574.038975	574.040703	574.042986
574.045909	574.049523	574.053831	574.058775	574.064243
574.070082	574.076100	574.082071	574.087731	574.092811
574.097113	574.100585	574.103355	574.105660	574.107753

Row 40

580.488869	580.527564	580.575178	580.632977	580.702502
580.785662	580.868228	580.934496	580.984967	581.020045
581.040032	581.045138	581.035466	581.011006	580.971610
580.916961	580.846540	580.759579	580.655005	580.531383
580.386843	580.219001	580.024846	579.800602	579.541504
579.241452	578.912910	578.569241	578.202575	577.803666
577.360818	576.857917	576.269934	575.549104	574.562890
574.013293	574.019431	574.028011	574.035918	574.042011
574.046084	574.048696	574.050770	574.053405	574.057233
574.062036	574.067900	574.075750	574.085121	574.092678
574.095028	574.092292	574.087127	574.081088	574.073868
574.065120	574.054767	574.041973	574.026530	574.011388
574.001312	573.998519	574.001234	574.006218	574.011188
574.015287	574.018531	574.021205	574.023568	574.025772
574.027879	574.029875	574.031691	574.033231	574.034418
574.035227	574.035704	574.035951	574.036095	574.036262
574.036567	574.037124	574.038054	574.039494	574.041587
574.044465	574.048212	574.052845	574.058291	574.064403
574.070982	574.077796	574.084564	574.090914	574.096402
574.100652	574.103553	574.105334	574.106409	574.107145

Row 41

580.577314	580.617533	580.666370	580.724970	580.794698
580.877206	580.962767	581.032671	581.087093	581.126432

581.150983	581.160941	581.156390	581.137294	581.103472
581.054574	580.990049	580.909103	580.810648	580.693257
580.555092	580.393836	580.206593	579.989765	579.738863
579.448535	579.135479	578.807810	578.458858	578.081121
577.665698	577.201267	576.671844	576.050793	575.279179
574.124371	574.012670	574.027014	574.038356	574.045985
574.049781	574.051207	574.051574	574.053214	574.057714
574.063147	574.068603	574.078562	574.094789	574.109066
574.111859	574.104831	574.096700	574.090365	574.082590
574.072496	574.061679	574.047057	574.024429	573.999444
573.984516	573.984381	573.992920	574.002740	574.010402
574.015589	574.019160	574.021936	574.024392	574.026746
574.029075	574.031346	574.033434	574.035162	574.036374
574.037017	574.037163	574.036976	574.036643	574.036326
574.036148	574.036222	574.036684	574.037704	574.039487
574.042234	574.046095	574.051112	574.057192	574.064120
574.071635	574.079484	574.087377	574.094828	574.101091
574.105410	574.107522	574.107917	574.107435	574.106611

Row 42

580.657976	580.698780	580.747734	580.805813	580.874144
580.954036	581.041165	581.114677	581.172985	581.216490
581.245486	581.260164	581.260602	581.246751	581.218418
581.175239	581.116651	581.041851	580.949757	580.838952
580.707630	580.553526	580.373827	580.165062	579.922940
579.644403	579.349257	579.039271	578.708750	578.351468
577.960385	577.527098	577.040612	576.484191	575.825900
574.983196	574.013696	574.026768	574.044497	574.053513
574.055384	574.054903	574.051236	574.049744	574.057439
574.065421	574.064928	574.073829	574.105515	574.137211
574.138206	574.116919	574.103491	574.101432	574.093820
574.079388	574.071341	574.060735	574.025143	573.976543
573.952244	573.962352	573.984013	574.001535	574.011905
574.017276	574.020423	574.022911	574.025282	574.027723
574.030304	574.032965	574.035492	574.037555	574.038846
574.039254	574.038916	574.038123	574.037173	574.036265
574.035509	574.034986	574.034823	574.035237	574.036521
574.038994	574.042919	574.048400	574.055305	574.063288
574.071951	574.081059	574.090483	574.099731	574.107521
574.112199	574.113045	574.111202	574.108692	574.106272

Row 43

580.731316	580.771895	580.820031	580.876505	580.942176
581.017977	581.103715	581.180829	581.242988	581.290601
581.323971	581.343295	581.348655	581.340005	581.317157
581.279750	581.227228	581.158799	581.073394	580.969617
580.845693	580.699393	580.527959	580.327998	580.095341
579.832498	579.557103	579.266033	578.954317	578.616597
578.247019	577.838963	577.384423	576.872412	576.284471
575.579668	574.614060	574.016452	574.062379	574.067162
574.061561	574.062723	574.049922	574.034646	574.056290
574.080774	574.052143	574.041703	574.113156	574.198044
574.186357	574.116436	574.096419	574.120789	574.113680
574.076353	574.079172	574.102954	574.039648	573.924461
573.880955	573.931733	573.980139	574.007107	574.017795
574.020684	574.022113	574.023949	574.026096	574.028552
574.031432	574.034676	574.037954	574.040647	574.042127
574.042166	574.041064	574.039393	574.037649	574.036067
574.034672	574.033443	574.032465	574.032003	574.032488
574.034436	574.038312	574.044362	574.052417	574.061836
574.071848	574.082246	574.093544	574.105758	574.116751
574.122608	574.121062	574.114835	574.109563	574.106677

Row 44

580.797863	580.837548	580.884121	580.938165	581.000272
581.071015	581.150884	581.231334	581.297332	581.349025
581.386733	581.410669	581.420930	581.417492	581.400183
581.368666	581.322407	581.260642	581.182331	581.086108
580.970226	580.832486	580.670156	580.479876	580.257775
580.016344	579.762061	579.490812	579.198082	578.879022
578.528438	578.140708	577.709578	577.227706	576.685277
576.064655	575.318957	574.257463	574.128104	574.084918
574.054932	574.085018	574.061579	573.969302	574.047985
574.154376	573.993888	573.915294	574.099040	574.329808
574.247647	574.057550	574.035705	574.185705	574.161189
574.027726	574.025980	574.259748	574.097220	573.790468
573.740474	573.913553	573.995648	574.027162	574.030063
574.024605	574.023212	574.024783	574.026643	574.028976
574.032195	574.036298	574.040910	574.044857	574.046747
574.046114	574.043689	574.040682	574.037948	574.035696
574.033703	574.031702	574.029670	574.027936	574.027144
574.028120	574.031690	574.038428	574.048231	574.059877
574.071475	574.082511	574.095349	574.112388	574.130549
574.140224	574.133651	574.116932	574.106954	574.110149

Row 45

580.858189	580.896456	580.940913	580.991954	581.049932
581.115107	581.187572	581.266298	581.336140	581.391906
581.433938	581.462479	581.477655	581.479473	581.467797
581.442329	581.402579	581.347827	581.277079	581.189012
581.081914	580.953609	580.801374	580.621833	580.416795
580.199353	579.967229	579.716532	579.442930	579.141757
578.808050	578.436523	578.021587	577.557687	577.040589
576.469849	575.848374	575.163765	574.415694	574.166739
574.328841	574.600409	574.818385	575.020124	575.358987
575.689918	575.931299	576.098662	576.244049	576.337694
576.307025	576.184949	576.067283	575.988160	575.909544
575.825769	575.779548	575.776293	575.690953	575.532121
575.289073	574.885069	574.268362	574.075627	574.046308
574.022967	574.021697	574.025981	574.026665	574.028569
574.032142	574.037307	574.044382	574.051005	574.053751
574.051683	574.046751	574.041622	574.037757	574.035091
574.032777	574.030035	574.026648	574.023050	574.020212
574.019441	574.022120	574.029525	574.042172	574.058042
574.072034	574.081209	574.092434	574.116613	574.151427
574.174054	574.156636	574.111722	574.086659	574.123948

Row 46

580.912880	580.949343	580.991304	581.038996	581.092571
581.152044	581.217217	581.287555	581.359431	581.419273
581.465632	581.498787	581.518907	581.526043	581.520114
581.500881	581.467915	581.420563	581.357899	581.278662
581.181190	581.063332	580.922359	580.756668	580.577261
580.384675	580.174945	579.943332	579.686987	579.402338
579.084806	578.728520	578.326027	577.869173	577.355894
576.796271	576.234238	575.744544	575.409618	575.324677
575.446134	575.675505	575.949498	576.258858	576.607030
576.958628	577.274703	577.531796	577.713741	577.802846
577.795084	577.718528	577.614747	577.505516	577.389271
577.262461	577.129644	576.986469	576.813296	576.599577
576.336140	576.008708	575.609914	575.125463	574.489789
573.999066	574.016143	574.032835	574.024194	574.026886
574.030850	574.036046	574.048007	574.060939	574.065389
574.059804	574.049745	574.041197	574.036397	574.034190
574.032310	574.029024	574.023867	574.017514	574.011414
574.007628	574.008197	574.015471	574.032470	574.057810
574.078467	574.079066	574.075633	574.107650	574.179365
574.248976	574.205921	574.087845	573.996884	574.091883

Row 47

580.962514	580.996909	581.036148	581.080332	581.129458
581.183368	581.241677	581.303669	581.368175	581.431050
581.481741	581.519522	581.544617	581.557139	581.557075
581.544265	581.518367	581.478823	581.424800	581.355128
581.268219	581.161967	581.034648	580.894249	580.738681
580.563609	580.368089	580.150453	579.908269	579.638207
579.335759	578.994765	578.606644	578.159373	577.637590
577.035989	576.447349	576.069382	575.923133	575.960134
576.135360	576.402548	576.730052	577.103050	577.510043
577.929317	578.328823	578.667590	578.900674	579.000836
578.982388	578.891806	578.772991	578.644652	578.503062
578.338978	578.150042	577.938899	577.706588	577.451207
577.167985	576.851603	576.500028	576.112711	575.687103
575.218085	574.692726	574.026559	574.008818	574.026330
574.029887	574.026062	574.050183	574.079545	574.086758
574.071680	574.050684	574.036931	574.032619	574.033089
574.033276	574.029810	574.022197	574.011814	574.000435
573.991832	573.988372	573.992020	574.012871	574.059923
574.107120	574.086495	574.018565	574.055851	574.192539
574.413964	574.694649	575.407588	575.978057	576.450501

Row 48

581.007641	581.039807	581.076220	581.116880	581.161678
581.210343	581.262390	581.317040	581.373132	581.429037
581.482077	581.524490	581.554582	581.572541	581.578444
581.572231	581.553674	581.522339	581.477525	581.418194
581.342872	581.251465	581.148477	581.026549	580.884702
580.722888	580.540378	580.335751	580.106817	579.850431
579.562124	579.235408	578.860383	578.420691	577.885779
577.188045	576.331422	576.166776	576.219236	576.379026
576.624875	576.942896	577.321294	577.751865	578.226591
578.731254	579.236993	579.687034	579.994372	580.096261
580.029188	579.889260	579.742839	579.602703	579.447569
579.253167	579.015565	578.749100	578.468662	578.178804
577.875296	577.553184	577.212882	576.859377	576.498189
576.132103	575.755489	575.339475	574.849635	574.202341
574.053201	573.975579	574.048136	574.121199	574.129367
574.087405	574.043156	574.023240	574.024735	574.032419
574.037923	574.034527	574.022757	574.007409	573.986443
573.970927	573.963081	573.953922	573.962238	574.052290
574.191961	574.199622	573.937216	575.046836	575.837143
576.468641	576.951504	577.336278	577.657593	577.915192

Row 49

581.048768	581.078629	581.112205	581.149429	581.190122
581.233958	581.280418	581.328735	581.377846	581.426337
581.472433	581.514019	581.548457	581.571877	581.583814
581.584333	581.573349	581.550590	581.515534	581.467942
581.410676	581.342494	581.253671	581.144123	581.014448
580.864659	580.694173	580.501769	580.285487	580.042417
579.768298	579.456744	579.097623	578.673267	578.147651
577.424066	576.297426	576.128330	576.405148	576.675411
576.984299	577.349510	577.773367	578.255977	578.797758
579.397062	580.040081	580.667665	581.085578	581.177183
580.991738	580.757901	580.581380	580.450867	580.304161
580.083653	579.788568	579.460793	579.134722	578.817094
578.495851	578.160466	577.814512	577.469960	577.137043
576.820122	576.516669	576.217431	575.909785	575.572630
575.147097	574.524002	574.050771	574.225976	574.216067
574.099282	574.008111	573.988318	574.013376	574.033021
574.051684	574.047644	574.024071	574.010179	573.966985
573.941926	573.933478	573.937351	573.803037	574.536626
575.278731	575.890147	576.437176	576.993094	577.519063
577.985159	578.373057	578.679444	578.916214	579.086179

Row 50

581.086358	581.113897	581.144691	581.178628	581.215497
581.254956	581.296498	581.339422	581.382800	581.425464
581.466007	581.502835	581.534267	581.558689	581.574749
581.581553	581.578801	581.566804	581.546366	581.518538
581.482254	581.425482	581.347195	581.248349	581.129463
580.990580	580.831234	580.650394	580.446357	580.216551
579.957188	579.662601	579.323998	578.926916	578.446090
577.838557	577.050169	576.272014	576.579912	576.895843
577.245484	577.646543	578.105975	578.629583	579.226666
579.912871	580.711234	581.456411	581.864748	581.980178
581.820012	581.477549	581.292508	581.225620	581.137327
580.886441	580.496199	580.084645	579.714707	579.383961
579.053739	578.697513	578.330416	577.979768	577.660750
577.376963	577.125179	576.898269	576.686792	576.477969
576.254099	576.002938	575.717421	575.346038	574.584411
574.086897	573.887025	573.905518	574.019468	574.024700
574.088600	574.085451	574.005830	574.023303	574.221934
574.859249	575.148022	575.319714	575.679203	576.158093
576.685041	577.218521	577.745828	578.261828	578.732778
579.125346	579.445902	579.700687	579.894263	580.027760

Row 51

581.120819	581.146063	581.174168	581.205004	581.238349
581.273872	581.311115	581.349466	581.388155	581.426249
581.462677	581.496278	581.525887	581.550449	581.569157
581.581568	581.587686	581.587958	581.583180	581.573850
581.547500	581.499093	581.429704	581.340124	581.230803
581.101812	580.952796	580.782921	580.590778	580.374237
580.130189	579.854139	579.539552	579.176934	578.753202
578.254200	577.678136	577.059881	576.720640	577.052204
577.421482	577.845729	578.327942	578.875614	579.503004
580.237750	581.132466	581.867661	582.278057	582.413497
582.297325	581.971813	581.841542	581.876713	581.795844
581.555020	581.125812	580.598946	580.198487	579.894593
579.579269	579.180221	578.766943	578.398813	578.089098
577.834772	577.628126	577.460057	577.321522	577.203143
577.095217	576.991730	576.888067	576.756405	576.521982
576.099173	575.348518	574.448811	574.133229	573.953895
574.211070	574.439535	574.529270	574.622738	574.948792
575.921065	576.428052	576.420341	576.701604	577.137774
577.649532	578.191634	578.738293	579.227931	579.641508
579.987851	580.272001	580.497410	580.666196	580.778796

Row 52

581.152507	581.175511	581.201045	581.228972	581.259083
581.291079	581.324561	581.359025	581.393856	581.428344
581.461708	581.493145	581.521902	581.547364	581.569145
581.587177	581.601751	581.613518	581.623410	581.625076
581.604856	581.563379	581.501531	581.419982	581.319140
581.199109	581.059653	580.900141	580.719486	580.516047
580.287487	580.030597	579.741110	579.413713	579.042831
578.625374	578.166037	577.679604	577.174887	577.128935
577.515926	577.953845	578.445865	578.998085	579.623138
580.344591	581.207456	581.949092	582.368549	582.517680
582.424966	582.162283	582.149497	582.205397	582.131232
581.903798	581.501946	580.941065	580.548603	580.362853
580.097415	579.606718	579.108225	578.721815	578.427095
578.206888	578.046695	577.933651	577.858782	577.815050
577.792105	577.784247	577.802345	577.850443	577.845349
577.658415	576.958537	575.335025	574.107375	574.086454
574.573027	574.903138	575.026794	574.950916	574.871960
575.795594	577.006810	577.053373	577.369719	577.839318
578.385984	578.967403	579.503361	579.958086	580.343048
580.665250	580.929016	581.137070	581.290912	581.390860

Row 53

581.181734	581.202565	581.225649	581.250856	581.277997
581.306817	581.336987	581.368110	581.399721	581.431305
581.462332	581.492296	581.520775	581.547505	581.572446
581.595848	581.618286	581.640660	581.663049	581.669180
581.653952	581.618236	581.562785	581.488191	581.394845
581.282900	581.152237	581.002437	580.832734	580.641971
580.428548	580.190399	579.925047	579.629919	579.303151
578.945108	578.560013	578.155418	577.739569	577.315216
577.530344	577.977880	578.468283	579.008434	579.603524
580.261752	580.988386	581.709305	582.143548	582.298002
582.203049	582.056918	582.136121	582.231842	582.177753
581.963267	581.574641	581.033227	580.685087	580.569302
580.322429	579.855547	579.310261	578.936091	578.674377
578.500045	578.393363	578.335216	578.317735	578.343972
578.393304	578.449432	578.531133	578.791304	579.003723
578.393179	577.154400	575.420189	574.426667	574.718699
575.204131	575.794412	576.114614	576.063955	575.669790
575.186241	577.220116	577.379004	577.807119	578.354492
578.963502	579.567774	580.084292	580.523558	580.895049
581.205097	581.457872	581.656031	581.801063	581.893434

Row 54

581.208767	581.227498	581.248250	581.270905	581.295304
581.321238	581.348452	581.376649	581.405498	581.434658
581.463809	581.492687	581.521142	581.549193	581.577087
581.605352	581.634836	581.666717	581.696180	581.705555
581.694392	581.663455	581.613415	581.544820	581.458063
581.353355	581.230703	581.089888	580.930445	580.751654
580.552543	580.331939	580.088605	579.821550	579.530563
579.216909	578.883751	578.535594	578.176605	577.811333
577.483150	577.923943	578.405982	578.925112	579.476918
580.055919	580.644525	581.191283	581.590685	581.754348
581.752304	581.742503	581.833897	581.974885	581.946731
581.740712	581.347788	580.864727	580.551469	580.420284
580.203781	579.772638	579.345174	579.037738	578.831114
578.718980	578.679984	578.678701	578.699597	578.812201
578.932392	578.777904	578.161320	577.537381	576.871740
576.286445	575.665755	575.459250	575.734559	576.315588
576.792229	577.197702	577.395306	577.196407	576.528715
575.352028	576.749582	577.472736	578.076326	578.727166
579.407620	580.013185	580.526843	580.962636	581.330019
581.635465	581.883380	582.076659	582.217029	582.305228

Row 55

581.233836	581.250538	581.269063	581.289311	581.311154
581.334431	581.358955	581.384519	581.410912	581.437940
581.465454	581.493391	581.521817	581.550980	581.581365
581.613739	581.649202	581.689211	581.721711	581.733652
581.725772	581.698768	581.653264	581.589790	581.508761
581.410454	581.294996	581.162356	581.012334	580.844580
580.658617	580.453919	580.230045	579.986864	579.724857
579.445405	579.150838	578.843998	578.527235	578.200287
577.874234	577.753871	578.271908	578.768874	579.278348
579.786828	580.272653	580.698107	581.014404	581.195370
581.272749	581.314746	581.372972	581.442411	581.427860
581.221154	580.867094	580.509261	580.225904	580.016102
579.797558	579.520752	579.256252	579.044189	578.896686
578.864541	578.924221	578.991048	578.383089	577.660572
576.955569	576.174223	575.254518	575.563108	576.036412
576.551469	576.853480	577.001625	577.215335	577.525709
577.888869	578.249652	578.300081	578.002991	577.284647
575.970147	576.447251	577.465018	578.225498	578.983954
579.717790	580.336668	580.858409	581.298887	581.668568
581.974610	582.221940	582.413884	582.552529	582.638953

Row 56

581.257143	581.271880	581.288267	581.306226	581.325657
581.346445	581.368464	581.391585	581.415698	581.440728
581.466667	581.493610	581.521792	581.551644	581.583838
581.619340	581.659463	581.705234	581.739055	581.752976
581.747694	581.723866	581.682096	581.622917	581.546778
581.454028	581.344909	581.219556	581.077998	580.920179
580.745999	580.555381	580.348376	580.125309	579.886934
579.634538	579.369881	579.094917	578.811327	578.520340
578.223450	577.962945	578.050168	578.559326	579.035913
579.491617	579.907410	580.259825	580.526331	580.699101
580.794104	580.841040	580.860483	580.845325	580.760337
580.576859	580.318140	580.043846	579.796633	579.580389
579.380272	579.220434	579.108198	578.992280	578.600335
577.928797	577.257857	576.494807	575.378718	575.435935
575.821128	576.244845	576.603468	576.915882	577.244095
577.539914	577.767619	577.943130	578.125048	578.348255
578.636085	578.916908	578.897374	578.539870	577.762390
576.325317	576.051716	577.385645	578.277270	579.139430
579.917408	580.559828	581.097252	581.548227	581.924812
582.235194	582.485036	582.678215	582.817265	582.903641

Row 57

581.278863	581.291690	581.306015	581.321775	581.338901
581.357314	581.376941	581.397721	581.419621	581.442663
581.466947	581.492686	581.520247	581.550193	581.583335
581.620788	581.664026	581.712971	581.747705	581.763081
581.759770	581.738415	581.699620	581.643936	581.571855
581.483801	581.380124	581.261105	581.126960	580.977871
580.814012	580.635615	580.443035	580.236842	580.017888
579.787335	579.546570	579.297028	579.039968	578.776454
578.507877	578.233977	578.052933	578.301019	578.770206
579.191725	579.561091	579.864362	580.091785	580.243179
580.328087	580.358878	580.340640	580.266845	580.132371
579.946187	579.726791	579.504315	579.299357	579.098812
578.801210	578.209600	577.573214	576.767432	575.642243
575.335994	575.634647	575.995965	576.353871	576.621130
576.915810	577.235882	577.555785	577.847457	578.097119
578.311389	578.487744	578.635151	578.774749	578.926491
579.109071	579.299249	579.234782	578.846870	578.042445
576.637861	575.553902	577.187925	578.232342	579.199404
580.024471	580.697759	581.256341	581.722059	582.108922
582.426392	582.681013	582.877310	583.018314	583.105884

Row 58

581.299155	581.310120	581.322439	581.336068	581.350959
581.367068	581.384360	581.402826	581.422497	581.443462
581.465903	581.490115	581.516553	581.545869	581.578965
581.617043	581.661675	581.711954	581.747222	581.763558
581.761627	581.742072	581.705511	581.652527	581.583662
581.499416	581.400239	581.286540	581.158695	581.017066
580.862036	580.694046	580.513649	580.321551	580.118645
579.905988	579.684727	579.455948	579.220490	578.978760
578.730414	578.473496	578.211931	578.134750	578.496829
578.901766	579.242198	579.508333	579.698028	579.818768
579.880623	579.887757	579.834679	579.699416	579.493011
579.281613	579.080495	578.527855	577.844434	577.063972
576.087376	575.054626	575.493277	575.883976	576.234487
576.465849	576.695898	576.949717	577.210466	577.467624
577.737950	578.028415	578.318669	578.560862	578.762457
578.929662	579.065600	579.175638	579.267896	579.348991
579.418798	579.456068	579.352477	578.938676	578.128675
576.901493	574.983618	576.829352	578.101392	579.171791
580.051769	580.761392	581.345225	581.828829	582.228453
582.555017	582.816065	583.016840	583.160907	583.250544

Row 59

581.318164	581.327304	581.337662	581.349206	581.361907
581.375743	581.390712	581.406841	581.424202	581.442933
581.463265	581.485546	581.510279	581.538161	581.570131
581.607420	581.651620	581.701790	581.737224	581.754041
581.752910	581.734488	581.699418	581.648324	581.581808
581.500444	581.404781	581.295340	581.172628	581.037156
580.889460	580.730136	580.559869	580.379458	580.189823
579.991966	579.786893	579.575472	579.358229	579.135045
578.904572	578.662892	578.417276	578.150301	578.258663
578.634019	578.963555	579.197930	579.342207	579.420005
579.453242	579.436873	579.365603	579.185995	578.333013
577.506812	576.722616	575.500729	575.314683	575.680330
576.043652	576.328891	576.598050	576.854076	577.087846
577.294207	577.493950	577.703036	577.924076	578.158538
578.412302	578.688060	578.935475	579.138570	579.303944
579.435994	579.537553	579.611081	579.658296	579.677473
579.658212	579.571320	579.355110	578.924456	578.215000
577.157570	575.463216	576.527479	577.910069	579.067630
580.008117	580.758685	581.371036	581.874889	582.289072
582.626159	582.894798	583.101000	583.248893	583.341178

Row 60

581.336028	581.343374	581.351804	581.361294	581.371827
581.383397	581.396022	581.409750	581.424679	581.440973
581.458886	581.478786	581.501190	581.526796	581.556531
581.591594	581.633519	581.682149	581.717380	581.734198
581.733283	581.715314	581.680970	581.630926	581.565850
581.486397	581.393208	581.286910	581.168124	581.037478
580.895631	580.743296	580.581259	580.410399	580.231674
580.046089	579.854609	579.658021	579.456730	579.250461
579.037757	578.815044	578.593587	578.390854	578.133124
578.430524	578.747007	578.953796	579.027326	579.029140
579.046451	579.001797	578.000427	576.482863	575.229762
575.530000	576.009267	576.284225	576.528883	576.778112
577.019166	577.239680	577.444051	577.636399	577.816934
577.988328	578.159120	578.338424	578.532334	578.745779
578.984186	579.236028	579.447150	579.618258	579.753773
579.856602	579.928337	579.969324	579.977969	579.948812
579.869190	579.714760	579.446778	579.017066	578.374225
577.435815	575.929853	576.186810	577.656835	578.887645
579.898586	580.695456	581.339150	581.864996	582.294984
582.643557	582.920558	583.132807	583.285009	583.380287

Row 61

581.352875	581.358455	581.364983	581.372439	581.380813
581.390107	581.400346	581.411589	581.423942	581.437574
581.452739	581.469797	581.489243	581.511740	581.538154
581.569597	581.607476	581.652756	581.687410	581.703737
581.702433	581.684207	581.649784	581.599900	581.535298
581.456723	581.364909	581.260583	581.144467	581.017289
580.879808	580.732828	580.577226	580.413957	580.244047
580.068564	579.888535	579.704810	579.517869	579.327598
579.133053	578.932151	578.744233	578.582801	578.444295
578.213698	578.625901	578.828383	578.782325	578.509817
577.730804	575.931397	575.743683	576.273135	576.459689
576.690269	576.958596	577.201787	577.419706	577.623851
577.815724	577.994015	578.159246	578.312536	578.456250
578.596108	578.738712	578.891333	579.060669	579.252953
579.474460	579.696623	579.877471	580.021264	580.131077
580.208697	580.254643	580.267970	580.245629	580.181243
580.063361	579.873759	579.587026	579.171979	578.589873
577.773619	576.533327	575.913463	577.285530	578.628992
579.727346	580.576458	581.253610	581.802579	582.249146
582.609794	582.895616	583.114267	583.271035	583.369461

Row 62

581.368834	581.372673	581.377321	581.382759	581.388976
581.395975	581.403779	581.412445	581.422072	581.432817
581.444912	581.458683	581.474575	581.493179	581.515261
581.541796	581.574007	581.613393	581.647085	581.662406
581.660075	581.640835	581.605466	581.554779	581.489608
581.410796	581.319182	581.215591	581.100836	580.975732
580.841116	580.697874	580.546962	580.389417	580.226363
580.058990	579.888499	579.715958	579.542070	579.367001
579.190491	579.013658	578.863689	578.749592	578.667072
578.618281	578.610423	578.931323	578.590456	576.817716
575.859601	576.297265	576.725614	577.059234	577.303458
577.527740	577.748555	577.952077	578.137947	578.310501
578.472061	578.623236	578.764565	578.896877	579.021290
579.139604	579.255469	579.381037	579.524844	579.693741
579.894460	580.086904	580.241307	580.361041	580.448218
580.503807	580.527598	580.517994	580.471557	580.382317
580.240963	580.034285	579.745271	579.353601	578.834363
578.150019	577.220064	576.151668	576.707793	578.327058
579.503051	580.405876	581.117142	581.689775	582.153348
582.526384	582.821250	583.046452	583.207867	583.309443

Row 63

581.384030	581.386154	581.388946	581.392381	581.396443
581.401128	581.406452	581.412455	581.419218	581.426870
581.435601	581.445683	581.457485	581.471497	581.488352
581.508849	581.533982	581.564957	581.596231	581.610005
581.605960	581.584882	581.547615	581.495063	581.428172
581.347906	581.255220	581.151043	581.036274	580.911798
580.778513	580.637370	580.489399	580.335726	580.177587
580.016347	579.853502	579.690541	579.528557	579.367831
579.208327	579.057486	578.947006	578.882488	578.864355
578.925906	579.072161	578.876293	578.401640	577.618544
577.281470	577.348691	577.554671	577.786700	578.008753
578.210660	578.397302	578.570930	578.732230	578.882609
579.023313	579.155129	579.278744	579.395023	579.505168
579.610902	579.714619	579.819416	579.935306	580.077367
580.252187	580.417783	580.548401	580.646501	580.713463
580.749667	580.754458	580.725996	580.660983	580.554312
580.398755	580.184877	579.901350	579.535603	579.074635
578.507361	577.841735	577.240532	576.975039	578.050379
579.234043	580.185292	580.930580	581.527301	582.008195
582.393781	582.697752	582.929508	583.095519	583.200134

Row 64

581.398588	581.399027	581.399989	581.401440	581.403356
581.405719	581.408527	581.411799	581.415585	581.419971
581.425093	581.431150	581.438415	581.447253	581.458135
581.471659	581.488560	581.509721	581.534742	581.546393
581.539890	581.516059	581.475827	581.420212	581.350305
581.267224	581.172070	581.065885	580.949646	580.824285
580.690737	580.549997	580.403167	580.251461	580.096220
579.938982	579.781645	579.626495	579.475496	579.328661
579.184300	579.059945	578.986846	578.975554	578.996818
579.004935	578.983298	578.841035	578.576829	578.265229
578.091834	578.106561	578.238696	578.421629	578.605485
578.779015	578.941947	579.094670	579.237493	579.370966
579.495752	579.612499	579.721896	579.824810	579.922399
580.016237	580.108410	580.201590	580.299132	580.410936
580.555494	580.696444	580.805251	580.883627	580.932360
580.951394	580.939811	580.895747	580.816244	580.697104
580.532814	580.316647	580.041059	579.698470	579.282795
578.793305	578.245038	577.701632	577.267272	577.787602
578.945322	579.910846	580.692314	581.314348	581.813064
582.211327	582.524372	582.762589	582.933069	583.040540

Row 65

581.412633	581.411422	581.410587	581.410084	581.409872
581.409917	581.410195	581.410695	581.411426	581.412424
581.413757	581.415537	581.417924	581.421142	581.425483
581.431321	581.439115	581.449413	581.462833	581.471513
581.461734	581.434123	581.389700	581.329635	581.255215
581.167769	581.068587	580.958847	580.839592	580.711758
580.576268	580.434135	580.286532	580.134786	579.980298
579.824630	579.670014	579.520103	579.379560	579.248534
579.121151	579.017658	578.957772	578.983837	579.001637
579.009881	578.990515	578.918951	578.801351	578.683922
578.633279	578.678600	578.801534	578.953425	579.109967
579.262561	579.407952	579.545037	579.673523	579.793537
579.905437	580.009720	580.107011	580.198112	580.284075
580.366274	580.446482	580.526932	580.610407	580.700350
580.809862	580.927578	581.016149	581.076380	581.108550
581.112254	581.086408	581.029209	580.938070	580.809575
580.639498	580.422953	580.154729	579.829876	579.444691
578.998276	578.493774	577.965018	577.478114	577.507768
578.647081	579.594294	580.398723	581.048719	581.566056
581.977118	582.299162	582.543717	582.718517	582.828646

Row 66

581.426286	581.423470	581.420881	581.418463	581.416158
581.413911	581.411671	581.409391	581.407035	581.404580
581.402020	581.399367	581.396661	581.393970	581.391394
581.389070	581.387171	581.385906	581.385502	581.385421
581.371467	581.338903	581.288853	581.222688	581.141971
581.048340	580.943356	580.828366	580.704454	580.572487
580.433276	580.287787	580.137297	579.983355	579.827424
579.670632	579.514789	579.364831	579.232787	579.129003
579.031692	579.000935	578.994458	578.984547	579.009810
579.037015	579.048530	579.040060	579.019524	579.011070
579.043777	579.133177	579.259279	579.397751	579.539357
579.678078	579.810750	579.935921	580.053037	580.162026
580.263094	580.356632	580.443178	580.523436	580.598311
580.668950	580.736789	580.803594	580.871510	580.943100
581.021825	581.114084	581.183781	581.227251	581.244292
581.234192	581.195736	581.127196	581.026303	580.890246
580.715712	580.499000	580.236221	579.923536	579.557339
579.133887	578.647044	578.133353	577.612417	577.143794
578.337430	579.285488	580.068570	580.727066	581.263807
581.687719	582.018684	582.269512	582.448562	582.561208

Row 67

581.439669	581.435300	581.431012	581.426733	581.422388
581.417898	581.413182	581.408154	581.402731	581.396825
581.390350	581.383217	581.375336	581.366615	581.356951
581.346238	581.334354	581.321160	581.306500	581.290183
581.269221	581.230352	581.172954	581.098661	581.009444
580.907417	580.794560	580.672459	580.542188	580.404398
580.259586	580.108513	579.952608	579.794016	579.634735
579.474509	579.312496	579.151852	579.005590	579.054491
579.067746	579.056675	579.037854	579.013700	579.028591
579.077066	579.125452	579.171763	579.220866	579.285071
579.378520	579.503492	579.636442	579.772232	579.906896
580.037142	580.160869	580.276954	580.384920	580.484681
580.576397	580.660396	580.737138	580.807214	580.871363
580.930487	580.985679	581.038229	581.089628	581.141545
581.195746	581.257496	581.309622	581.337620	581.340813
581.318187	581.268401	581.189773	581.080277	580.937536
580.758862	580.541303	580.281697	579.976632	579.622070
579.212069	578.743665	578.257469	577.732481	577.085869
578.043752	579.007319	579.767709	580.391031	580.909409
581.337542	581.677497	581.934764	582.118215	582.233409

Row 68

581.452900	581.447041	581.441120	581.435051	581.428739
581.422081	581.414963	581.407264	581.398846	581.389560
581.379238	581.367689	581.354693	581.339993	581.323285
581.304212	581.282347	581.257197	581.228197	581.194738
581.156198	581.108635	581.041782	580.956782	580.856221
580.742993	580.619775	580.488519	580.350209	580.205010
580.052697	579.893416	579.728681	579.561900	579.398301
579.234992	579.062573	579.046797	579.087521	579.124478
579.133222	579.116985	579.085498	579.046733	579.044723
579.116521	579.204067	579.299271	579.403114	579.521622
579.662217	579.810166	579.952930	580.090951	580.223270
580.348664	580.466188	580.575298	580.675782	580.767664
580.851131	580.926485	580.994118	581.054511	581.108231
581.155939	581.198390	581.236417	581.270898	581.302677
581.332412	581.360681	581.394199	581.408019	581.398560
581.364505	581.304372	581.216491	581.098994	580.949810
580.766667	580.547103	580.288411	579.987449	579.640060
579.239658	578.808927	578.367844	577.889386	577.306025
577.828112	578.791485	579.514535	580.095186	580.575749

580.974274	581.298587	581.552680	581.740004	581.865173

Row 69

581.466091	581.458815	581.451342	581.443570	581.435385
581.426659	581.417250	581.406996	581.395713	581.383189
581.369178	581.353389	581.335477	581.315027	581.291535
581.264392	581.232864	581.196076	581.153019	581.102588
581.043682	580.975390	580.895359	580.796245	580.680477
580.552279	580.415589	580.272974	580.125151	579.971370
579.809971	579.639341	579.460790	579.278842	579.104201
579.099384	579.155496	579.188921	579.214120	579.226887
579.219277	579.189443	579.140015	579.074313	579.027025
579.143049	579.275075	579.416266	579.566558	579.728869
579.904418	580.069857	580.222640	580.364776	580.497086
580.619795	580.732939	580.836562	580.930781	581.015789
581.091839	581.159232	581.218306	581.269434	581.313022
581.349502	581.379315	581.402881	581.420539	581.432436
581.438349	581.437383	581.437388	581.438310	581.417372
581.372861	581.303139	581.206512	581.081203	580.925338
580.736933	580.513864	580.253785	579.953898	579.610442
579.232643	578.853084	578.472305	578.079106	577.632594
577.771129	578.674791	579.320052	579.841350	580.278838
580.647435	580.953385	581.199922	581.389828	581.526665

Row 70

581.479348	581.470740	581.461808	581.452435	581.442491
581.431825	581.420267	581.407619	581.393653	581.378100
581.360642	581.340899	581.318408	581.292608	581.262808
581.228155	581.187606	581.139885	581.083477	581.016655
580.937613	580.844793	580.737454	580.616327	580.479775
580.331172	580.176906	580.020693	579.862440	579.699798
579.529284	579.343383	579.143931	579.032521	579.142470
579.237970	579.297546	579.331693	579.348212	579.346691
579.323983	579.277912	579.207811	579.112374	578.983033
579.156810	579.335236	579.521026	579.712998	579.912260
580.113405	580.293660	580.455507	580.602032	580.735231
580.856349	580.966180	581.065278	581.154073	581.232935
581.302195	581.362164	581.413134	581.455382	581.489164
581.514702	581.532162	581.541609	581.542933	581.535734
581.519143	581.491546	581.454901	581.427954	581.396608
581.342533	581.263806	581.158675	581.025400	580.862222
580.667345	580.438898	580.174848	579.872834	579.540896
579.205520	578.875967	578.560558	578.270166	578.030766
578.090591	578.670098	579.178488	579.622809	580.012147
580.350380	580.638968	580.878719	581.070858	581.217591

Row 71

581.492771	581.482924	581.472637	581.461782	581.450212
581.437757	581.424222	581.409379	581.392960	581.374649
581.354066	581.330752	581.304147	581.273560	581.238134
581.196798	581.148211	581.090696	581.022176	580.940143
580.841739	580.724138	580.585508	580.426722	580.252958
580.073224	579.895525	579.724042	579.555790	579.384600
579.209806	579.057340	579.153575	579.246626	579.331665
579.403803	579.455531	579.485467	579.494803	579.482864
579.447359	579.385593	579.295219	579.175666	579.034801
579.161264	579.383339	579.614708	579.845770	580.076603
580.297183	580.489594	580.658893	580.809135	580.943193
581.063047	581.170053	581.265164	581.349070	581.422289
581.485226	581.538201	581.581463	581.615202	581.639538
581.654512	581.660053	581.655934	581.641692	581.616520
581.579106	581.527407	581.460537	581.397661	581.338098
581.272426	581.185130	581.071509	580.929804	580.758302
580.555307	580.319111	580.048822	579.757248	579.456711
579.157533	578.871270	578.612824	578.406272	578.301084
578.393531	578.692202	579.058716	579.423420	579.764941
580.074705	580.348147	580.582762	580.777701	580.933641

Row 72

581.506449	581.495464	581.483939	581.471733	581.458687
581.444614	581.429300	581.412493	581.393894	581.373148
581.349827	581.323413	581.293266	581.258597	581.218416
581.171474	581.116177	581.050481	580.971745	580.876568
580.760654	580.618941	580.446711	580.242984	580.015717
579.782497	579.564451	579.375605	579.200357	579.018956
579.128965	579.256272	579.358092	579.445790	579.521962
579.584083	579.628564	579.653100	579.656349	579.636538
579.590915	579.515708	579.406152	579.257855	579.078128
579.134958	579.417348	579.701927	579.970392	580.227118
580.462320	580.663817	580.838399	580.991048	581.125316
581.243698	581.347943	581.439282	581.518590	581.586496
581.643455	581.689785	581.725693	581.751289	581.766574
581.771433	581.765600	581.748614	581.719745	581.677896
581.621471	581.548195	581.456080	581.363808	581.273906
581.179104	581.071894	580.945183	580.793218	580.612543
580.402641	580.166042	579.907943	579.635631	579.358051
579.085807	578.831861	578.613335	578.454846	578.391664

578.459185	578.653006	578.923185	579.222811	579.524061
579.810930	580.073619	580.306222	580.505696	580.671218

Row 73

581.520459	581.508447	581.495807	581.482392	581.468032
581.452531	581.435658	581.417143	581.396669	581.373852
581.348233	581.319252	581.286223	581.248289	581.204376
581.153116	581.092746	581.020949	580.934632	580.829567
580.699855	580.537208	580.330767	580.071606	579.769147
579.457719	579.175862	578.988216	579.102763	579.237067
579.358460	579.468412	579.564508	579.647635	579.718256
579.774719	579.814437	579.834906	579.833856	579.808787
579.756403	579.671865	579.547409	579.369275	579.106165
579.028857	579.448016	579.794537	580.095283	580.369782
580.614386	580.821136	580.998288	581.151571	581.284985
581.401333	581.502586	581.590134	581.664961	581.727754
581.778987	581.818963	581.847844	581.865662	581.872316
581.867560	581.850968	581.821899	581.779425	581.722251
581.648605	581.556104	581.442596	581.326829	581.212682
581.094018	580.964786	580.819479	580.653734	580.464941
580.252698	580.018995	579.768151	579.506614	579.242828
578.987310	578.753091	578.556565	578.418211	578.360955
578.401733	578.538275	578.748113	579.002472	579.276133
579.549490	579.808472	580.043999	580.251028	580.427503

Row 74

581.534870	581.521944	581.508320	581.493846	581.478345
581.461614	581.443416	581.423469	581.401445	581.376948
581.349504	581.318536	581.283335	581.243025	581.196502
581.142359	581.078774	581.003330	580.912731	580.802305
580.665056	580.489698	580.256227	579.930000	579.507322
579.077036	579.047799	579.216676	579.360868	579.479929
579.587213	579.685603	579.774596	579.853341	579.920623
579.974376	580.011947	580.030551	580.027489	580.000000
579.944769	579.856886	579.727650	579.539414	579.252483
578.990706	579.520136	579.912731	580.230773	580.510647
580.757744	580.965073	581.141647	581.293500	581.424758
581.538299	581.636150	581.719744	581.790088	581.847878
581.893574	581.927447	581.949607	581.960014	581.958475
581.944632	581.917935	581.877603	581.822565	581.751392
581.662208	581.552588	581.420929	581.286906	581.153643
581.015920	580.868738	580.707641	580.529134	580.331114
580.113242	579.877191	579.626763	579.367920	579.108772
578.859584	578.632824	578.443144	578.306862	578.239896
578.253406	578.349215	578.519023	578.746315	579.008402
579.281538	579.546835	579.792165	580.010989	580.200604

Row 75

581.549735	581.536013	581.521539	581.506160	581.489696
581.471943	581.452660	581.431565	581.408328	581.382554
581.353772	581.321409	581.284770	581.242996	581.195015
581.139471	581.074613	580.998135	580.906903	580.796463
580.660088	580.486540	580.253435	579.891435	579.467275
579.408062	579.444198	579.528010	579.625325	579.721492
579.814356	579.903132	579.986375	580.062234	580.128446
580.182221	580.220363	580.239603	580.236922	580.209667
580.155254	580.070249	579.948488	579.777402	579.530779
579.155386	579.679855	580.076049	580.385159	580.654121
580.894933	581.097717	581.270424	581.418714	581.546450
581.656341	581.750305	581.829707	581.895504	581.948350
581.988661	582.016658	582.032392	582.035752	582.026463
582.004077	581.967940	581.917167	581.850582	581.766667
581.663484	581.538591	581.392011	581.244308	581.096264
580.943405	580.781483	580.606721	580.416116	580.207789
579.981328	579.738107	579.481567	579.217409	578.953654
578.700485	578.469850	578.274756	578.128208	578.041738
578.024066	578.081489	578.219586	578.436357	578.708019
578.999617	579.284709	579.548562	579.784344	579.989762

Row 76

581.565096	581.550697	581.535509	581.519380	581.502133
581.483564	581.463438	581.441480	581.417366	581.390715
581.361075	581.327901	581.290537	581.248185	581.199859
581.144331	581.080051	581.005023	580.916622	580.811292
580.684052	580.527682	580.331989	580.092479	579.882227
579.787849	579.777858	579.816875	579.881084	579.956589
580.036737	580.117979	580.197592	580.272856	580.340694
580.397495	580.439209	580.461758	580.461656	580.436533
580.385186	580.306979	580.200746	580.063639	579.890007
579.658859	579.959349	580.290910	580.559452	580.801019
581.026084	581.219609	581.385470	581.528264	581.651227
581.756675	581.846282	581.921247	581.982417	582.030360
582.065422	582.087759	582.097355	582.094030	582.077438
582.047050	582.002133	581.941718	581.864555	581.769064
581.653263	581.514705	581.357010	581.199556	581.040409
580.875693	580.701681	580.514985	580.312789	580.093149
579.855341	579.600293	579.331052	579.053218	578.775106

578.507399	578.262186	578.051464	577.885485	577.771582
577.714636	577.721927	577.818669	578.044176	578.361317
578.699124	579.021245	579.313580	579.571722	579.795524

Row 77

581.580984	581.566025	581.550257	581.533532	581.515677
581.496496	581.475764	581.453216	581.428549	581.401405
581.371363	581.337926	581.300502	581.258382	581.210712
581.156455	581.094349	581.022842	580.940029	580.843599
580.730881	580.599377	580.449192	580.291328	580.157996
580.079505	580.056204	580.073984	580.118670	580.179848
580.250844	580.327314	580.405905	580.483382	580.556059
580.619458	580.667506	580.693615	580.696689	580.675887
580.630174	580.559200	580.468965	580.366588	580.265837
580.213208	580.330699	580.536406	580.744426	580.947933
581.148963	581.329871	581.486675	581.622494	581.739698
581.840068	581.924932	581.995264	582.051749	582.094840
582.124792	582.141684	582.145429	582.135781	582.112325
582.074467	582.021409	581.952116	581.865284	581.759283
581.632102	581.481281	581.317347	581.153466	580.986352
580.812595	580.628804	580.431743	580.218501	579.986744
579.735071	579.463577	579.174636	578.873770	578.570155
578.276115	578.005323	577.770014	577.578044	577.431186
577.325625	577.254569	577.232003	577.514893	577.958485
578.382155	578.760623	579.090947	579.375906	579.619812

Row 78

581.597415	581.582011	581.565793	581.548619	581.530326
581.510728	581.489613	581.466737	581.441820	581.414536
581.384509	581.351301	581.314401	581.273214	581.227041
581.175071	581.116368	581.049867	580.974412	580.888873
580.792482	580.685694	580.572123	580.461519	580.369922
580.311360	580.289535	580.299819	580.334872	580.387924
580.453757	580.528473	580.608849	580.691642	580.772552
580.838572	580.884803	580.910961	580.916767	580.902000
580.866653	580.811302	580.737964	580.658027	580.596632
580.583904	580.648227	580.773101	580.925207	581.089007
581.260034	581.426668	581.573240	581.701212	581.812039
581.906920	581.986798	582.052382	582.104175	582.142495
582.167493	582.179163	582.177347	582.161733	582.131847
582.087036	582.026447	581.948997	581.853336	581.737798
581.600345	581.440157	581.274638	581.107105	580.934719
580.754421	580.563006	580.357193	580.133720	579.889493
579.621898	579.329461	579.013085	578.677854	578.334525
577.999087	577.689613	577.421181	577.200071	577.020341
576.865123	576.702533	576.434467	576.818708	577.513924
578.063438	578.513772	578.888130	579.201807	579.465780

Row 79

581.614394	581.598655	581.582112	581.564630	581.546058
581.526225	581.504935	581.481968	581.457074	581.429966
581.400319	581.367763	581.331877	581.292188	581.248164
581.199225	581.144750	581.084128	581.016839	580.942644
580.861949	580.776465	580.690181	580.610105	580.545299
580.503507	580.488063	580.497908	580.529614	580.579249
580.643323	580.718979	580.803728	580.894490	580.974855
581.037506	581.082229	581.108913	581.117573	581.108450
581.082207	581.040314	580.985752	580.924188	580.874157
580.862881	580.900100	580.980588	581.090567	581.218952
581.359647	581.507819	581.644009	581.763890	581.868122
581.957360	582.032171	582.093001	582.140163	582.173835
582.194060	582.200745	582.193663	582.172439	582.136544
582.085276	582.017737	581.932802	581.829088	581.704897
581.558165	581.395490	581.230588	581.061707	580.886398
580.701859	580.504965	580.292256	580.059906	579.803698
579.519106	579.201831	578.849458	578.465060	578.061596
577.662330	577.295055	576.983631	576.735851	576.533011
576.341170	576.121982	575.813373	576.082412	577.079460
577.772167	578.298140	578.715740	579.055900	579.337365

Row 80

581.631918	581.615947	581.599193	581.581534	581.562830
581.542927	581.521650	581.498804	581.474172	581.447511
581.418551	581.386991	581.352505	581.314739	581.273324
581.227888	581.178094	581.123696	581.064645	581.001268
580.934550	580.866523	580.800656	580.741902	580.695932
580.667589	580.659557	580.672142	580.704039	580.753287
580.817959	580.896456	580.987460	581.079611	581.155992
581.216114	581.259857	581.287252	581.298525	581.294195
581.275249	581.243424	581.201625	581.154374	581.108566
581.088589	581.105727	581.157209	581.235985	581.334752
581.447991	581.571940	581.697767	581.809854	581.907635
581.991322	582.061153	582.117336	582.160005	582.189201
582.204865	582.206821	582.194773	582.168291	582.126795
582.069542	581.995596	581.903801	581.792743	581.660702
581.508057	581.349489	581.186872	581.018558	580.842407
580.655815	580.455686	580.238332	579.999278	579.732942

579.432213	579.088180	578.691251	578.237256	577.740623
577.239078	576.779115	576.406903	576.148541	575.950910
575.739463	575.484781	575.205231	575.374351	576.723848
577.545924	578.134598	578.585682	578.945063	579.238549

Row 81

581.649970	581.633863	581.617006	581.599288	581.580585
581.560759	581.539658	581.517116	581.492950	581.466960
581.438930	581.408632	581.375827	581.340274	581.301746
581.260054	581.215084	581.166862	581.115649	581.062082
581.007356	580.953425	580.903121	580.860036	580.828018
580.810406	580.809385	580.825820	580.859567	580.909990
580.976440	581.058570	581.154768	581.243074	581.316439
581.374685	581.417785	581.445879	581.459318	581.458745
581.445220	581.420387	581.386661	581.347309	581.306190
581.275477	581.276080	581.306180	581.361068	581.435500
581.524804	581.625175	581.733438	581.838415	581.930184
582.008622	582.073714	582.125462	582.163847	582.188790
582.200135	582.197634	582.180926	582.149532	582.102830
582.040039	581.960193	581.862111	581.744357	581.605758
581.457407	581.304089	581.145033	580.978888	580.803765
580.617238	580.416261	580.196983	579.954390	579.681646
579.368897	579.001140	578.555277	578.003356	577.352011
576.674466	576.043067	575.542434	575.350875	575.245477
575.035566	575.137264	575.193804	575.107697	576.524125
577.421222	578.042458	578.508418	578.874999	579.172430

Row 82

581.668529	581.652372	581.635508	581.617838	581.599251
581.579630	581.558846	581.536760	581.513224	581.488080
581.461167	581.432320	581.401380	581.368208	581.332695
581.294797	581.254567	581.212216	581.168187	581.123254
581.078631	581.036060	580.997827	580.966624	580.945242
580.936161	580.941219	580.961511	580.997545	581.049551
581.117837	581.203138	581.300224	581.385535	581.456660
581.513521	581.556177	581.584842	581.599922	581.602078
581.592298	581.571981	581.542986	581.507578	581.468158
581.430183	581.417266	581.430864	581.467036	581.521568
581.590457	581.670116	581.757310	581.848954	581.935352
582.009011	582.069724	582.117342	582.151719	582.172675
582.179974	582.173300	582.152243	582.116277	582.064744
581.996833	581.911555	581.807709	581.684195	581.549546
581.408441	581.260915	581.106399	580.943768	580.771360
580.586944	580.387607	580.169517	579.927467	579.653995
579.337562	578.958398	578.477245	577.800430	576.842899
575.834885	574.780781	574.812102	575.274529	575.597583
575.738425	575.803481	575.794445	575.636648	576.527825
577.422977	578.034273	578.490050	578.848621	579.140326

Row 83

581.687565	581.671436	581.654650	581.637118	581.618749
581.599441	581.579089	581.557581	581.534802	581.510635
581.484966	581.457690	581.428718	581.397991	581.365499
581.331305	581.295578	581.258645	581.221038	581.183568
581.147377	581.113974	581.085212	581.063178	581.050003
581.047631	581.057647	581.081222	581.119211	581.172366
581.241625	581.328469	581.424465	581.507624	581.577113
581.632954	581.675271	581.704323	581.720527	581.724498
581.717087	581.699414	581.672851	581.638935	581.599161
581.556254	581.533078	581.534064	581.555565	581.593943
581.645698	581.707546	581.776397	581.849248	581.923050
581.992198	582.048988	582.092851	582.123548	582.140820
582.144368	582.133820	582.108722	582.068513	582.012504
581.939862	581.849579	581.741631	581.623203	581.496667
581.362656	581.221254	581.072026	580.914037	580.745846
580.565463	580.370227	580.156580	579.919627	579.652301
579.343656	578.974953	578.508745	577.847584	576.998763
576.462982	576.170342	576.086806	576.159279	576.269577
576.349407	576.393530	576.391030	576.294764	576.747412
577.560310	578.111492	578.529853	578.864823	579.141167

Row 84

581.707041	581.691009	581.674374	581.657060	581.638991
581.620084	581.600256	581.579419	581.557490	581.534388
581.510043	581.484399	581.457425	581.429128	581.399572
581.368894	581.337342	581.305301	581.273339	581.242241
581.213046	581.187045	581.165757	581.150845	581.143995
581.146790	581.160606	581.186598	581.225767	581.279114
581.347874	581.433838	581.528279	581.609936	581.678254
581.733336	581.775362	581.804608	581.821472	581.826497
581.820382	581.803985	581.778290	581.744320	581.702989
581.656270	581.626354	581.618183	581.628416	581.653865
581.691461	581.738259	581.791417	581.848144	581.905629
581.960989	582.011265	582.051791	582.079175	582.093095
582.093201	582.079083	582.050250	582.006112	581.945960
581.869153	581.778945	581.677917	581.567381	581.448278
581.321136	581.186047	581.042677	580.890258	580.727580

580.552943	580.364065	580.157902	579.930345	579.675681
579.385678	579.048102	578.645443	578.164795	577.662188
577.260349	576.999774	576.869556	576.837891	576.858333
576.894687	576.931506	576.963828	576.995643	577.247902
577.817932	578.259823	578.618972	578.918155	579.171416

Row 85

581.726919	581.711043	581.694620	581.677590	581.659889
581.641452	581.622215	581.602117	581.581100	581.559115
581.536129	581.512127	581.487127	581.461184	581.434414
581.407007	581.379251	581.351558	581.324491	581.298786
581.275365	581.255332	581.239942	581.230546	581.228514
581.235152	581.251656	581.279097	581.318474	581.370825
581.437386	581.519834	581.612365	581.693019	581.760519
581.815033	581.856779	581.886038	581.903175	581.908650
581.903017	581.886915	581.861029	581.826018	581.782408
581.732944	581.699712	581.685469	581.687362	581.702674
581.728761	581.763038	581.802968	581.846035	581.889717
581.931473	581.968756	581.999071	582.020076	582.029720
582.026390	582.009035	581.977225	581.931128	581.871405
581.799050	581.715206	581.620996	581.517393	581.405120
581.284597	581.155915	581.018820	580.872706	580.716601
580.549135	580.368488	580.172292	579.957496	579.720197
579.455541	579.158140	578.824714	578.463203	578.106946
577.804026	577.582881	577.445974	577.379489	577.362248
577.375806	577.410993	577.470458	577.578315	577.798674
578.123008	578.448836	578.742068	578.999901	579.225671

Row 86

581.747157	581.731485	581.715327	581.698632	581.681351
581.663436	581.644840	581.625522	581.605451	581.584603
581.562977	581.540590	581.517496	581.493787	581.469613
581.445195	581.420841	581.396964	581.374100	581.352922
581.334240	581.318995	581.308234	581.303066	581.304616
581.313970	581.332147	581.360089	581.398696	581.448884
581.511683	581.588351	581.677333	581.757366	581.824315
581.878401	581.919863	581.948980	581.966079	581.971538
581.965787	581.949285	581.922491	581.885800	581.839479
581.789524	581.755869	581.738157	581.734182	581.741744
581.758637	581.782649	581.811571	581.843190	581.875290
581.905658	581.932115	581.952558	581.965048	581.967897
581.959768	581.939749	581.907390	581.862686	581.806004
581.737977	581.659379	581.571005	581.473563	581.367600
581.253449	581.131195	581.000660	580.861393	580.712662
580.553442	580.382404	580.197897	579.997955	579.780395
579.543149	579.285237	579.009093	578.724557	578.451380
578.213524	578.027992	577.899844	577.824456	577.792404
577.794788	577.827434	577.893680	578.006239	578.180016
578.405136	578.647667	578.882795	579.100387	579.297756

Row 87

581.767710	581.752284	581.736430	581.720111	581.703289
581.685930	581.668005	581.649491	581.630376	581.610660
581.590365	581.569536	581.548250	581.526627	581.504836
581.483114	581.461771	581.441206	581.421918	581.404510
581.389690	581.378259	581.371091	581.369103	581.373220
581.384339	581.403307	581.430912	581.467889	581.514951
581.572809	581.642183	581.723700	581.803406	581.870010
581.923769	581.964941	581.993793	582.010612	582.015707
582.009400	581.992010	581.963822	581.925044	581.875776
581.829674	581.797669	581.778501	581.770651	581.772448
581.782122	581.797833	581.817700	581.839817	581.862270
581.883153	581.900605	581.912851	581.918267	581.915441
581.903244	581.880872	581.847873	581.804130	581.749816
581.685317	581.611145	581.527855	581.435959	581.335869
581.227848	581.111984	580.988172	580.856108	580.715289
580.565024	580.404447	580.232566	580.048352	579.850951
579.640116	579.417039	579.185695	578.954274	578.735206
578.542252	578.386010	578.271282	578.197460	578.160829
578.157406	578.185355	578.246289	578.344555	578.482357
578.652550	578.839671	579.028994	579.211243	579.381845

Row 88

581.788535	581.773385	581.757867	581.741953	581.725616
581.708835	581.691596	581.673890	581.655722	581.637113
581.618100	581.598749	581.579154	581.559451	581.539820
581.520501	581.501795	581.484078	581.467805	581.453512
581.441812	581.433385	581.428961	581.429297	581.435150
581.447250	581.466281	581.492863	581.527549	581.570814
581.623036	581.684431	581.754910	581.831495	581.897915
581.951430	581.992307	582.020800	582.037160	582.041635
582.034460	582.015842	581.985935	581.944808	581.896608
581.857082	581.827932	581.808705	581.798497	581.796124
581.800221	581.809301	581.821798	581.836099	581.850572
581.863594	581.873579	581.879030	581.878574	581.871019
581.855398	581.830997	581.797375	581.754349	581.701960
581.640429	581.570085	581.491308	581.404469	581.309879

581.207754	581.098190	580.981153	580.856473	580.723858
580.582909	580.433166	580.274177	580.105624	579.927549
579.740715	579.547162	579.350860	579.158142	578.977301
578.817040	578.684404	578.583416	578.515049	578.478262
578.471457	578.493721	578.545310	578.626864	578.737171
578.870968	579.019517	579.173695	579.326419	579.473156

Row 89

581.809586	581.794737	581.779577	581.764087	581.748251
581.732058	581.715504	581.698597	581.681354	581.663808
581.646013	581.628045	581.610012	581.592057	581.574363
581.557163	581.540745	581.525456	581.511704	581.499961
581.490754	581.484658	581.482282	581.484246	581.491163
581.503616	581.522138	581.547188	581.579138	581.618242
581.664588	581.718008	581.777918	581.843034	581.908282
581.961623	582.002207	582.030275	582.046046	582.049718
582.041454	582.021374	581.989533	581.947667	581.908184
581.875084	581.849270	581.830836	581.819352	581.814041
581.813891	581.817731	581.824284	581.832207	581.840126
581.846666	581.850489	581.850324	581.845012	581.833537
581.815064	581.788961	581.754803	581.712373	581.661629
581.602678	581.535724	581.461025	581.378850	581.289440
581.192980	581.089581	580.979273	580.862005	580.737663
580.606097	580.467169	580.320836	580.167269	580.007046
579.841410	579.672590	579.504091	579.340763	579.188420
579.052972	578.939372	578.850888	578.788993	578.753814
578.744844	578.761538	578.803481	578.869930	578.958870
579.066297	579.186544	579.313544	579.442040	579.568128

Row 90

581.830821	581.816290	581.801503	581.786447	581.771117
581.755511	581.739634	581.723504	581.707150	581.690614
581.673960	581.657275	581.640669	581.624288	581.608314
581.592968	581.578517	581.565279	581.553615	581.543937
581.536696	581.532376	581.531478	581.534509	581.541958
581.554279	581.571868	581.595043	581.624017	581.658860
581.699444	581.745354	581.795754	581.849190	581.903346
581.954522	581.994824	582.022426	582.037520	582.040261
582.030755	582.009055	581.977850	581.944987	581.913836
581.886457	581.863958	581.846742	581.834700	581.827366
581.824018	581.823756	581.825554	581.828310	581.830881
581.832111	581.830872	581.826092	581.816787	581.802090
581.781278	581.753789	581.719225	581.677353	581.628084
581.571447	581.507563	581.436607	581.358776	581.274264
581.183237	581.085826	580.982116	580.872158	580.755983
580.633633	580.505215	580.370970	580.231377	580.087299
579.940144	579.792048	579.645973	579.505672	579.375388
579.259352	579.161204	579.083575	579.027980	578.994992
578.984574	578.996350	579.029672	579.083394	579.155500
579.242877	579.341524	579.447150	579.555806	579.664281

Row 91

581.852198	581.837996	581.823589	581.808972	581.794146
581.779117	581.763898	581.748516	581.733006	581.717419
581.701825	581.686314	581.671000	581.656025	581.641564
581.627825	581.615053	581.603531	581.593580	581.585555
581.579839	581.576836	581.576958	581.580611	581.588179
581.600005	581.616371	581.637475	581.663401	581.694082
581.729251	581.768362	581.810501	581.854265	581.897662
581.938083	581.972481	581.997837	582.011916	582.014000
582.005160	581.987893	581.965337	581.940530	581.915950
581.893366	581.873873	581.858002	581.845841	581.837141
581.831404	581.827952	581.825974	581.824574	581.822809
581.819716	581.814348	581.805801	581.793240	581.775925
581.753230	581.724657	581.689839	581.648542	581.600650
581.546147	581.485097	581.417620	581.343865	581.263996
581.178170	581.086535	580.989227	580.886374	580.778120
580.664653	580.546248	580.423330	580.296553	580.166902
580.035788	579.905141	579.777434	579.655609	579.542871
579.442368	579.356863	579.288473	579.238574	579.207860
579.196474	579.204141	579.230188	579.273454	579.332160
579.403852	579.485555	579.574089	579.666427	579.759956

Row 92

581.873678	581.859811	581.845786	581.831605	581.817274
581.802805	581.788220	581.773549	581.758833	581.744129
581.729510	581.715066	581.700911	581.687182	581.674043
581.661685	581.650332	581.640235	581.631673	581.624952
581.620394	581.618334	581.619107	581.623034	581.630411
581.641487	581.656452	581.675405	581.698335	581.725086
581.755311	581.788421	581.823527	581.859381	581.894348
581.926453	581.953556	581.973673	581.985404	581.988308
581.983033	581.971130	581.954650	581.935707	581.916156
581.897429	581.880502	581.865923	581.853880	581.844268
581.836756	581.830837	581.825877	581.821157	581.815901
581.809314	581.800603	581.789008	581.773822	581.754412
581.730239	581.700862	581.665950	581.625277	581.578715

581.526222	581.467829	581.403618	581.333710	581.258247
581.177385	581.091289	581.000132	580.904104	580.803431
580.698400	580.589397	580.476956	580.361812	580.244974
580.127775	580.011916	579.899455	579.792736	579.694241
579.606385	579.531313	579.470732	579.425828	579.397272
579.385266	579.389601	579.409666	579.444424	579.492375
579.551570	579.619724	579.694399	579.773228	579.854084

Row 93

581.895225	581.881692	581.868047	581.854293	581.840444
581.826515	581.812532	581.798531	581.784556	581.770667
581.756937	581.743456	581.730333	581.717698	581.705704
581.694526	581.684362	581.675435	581.667986	581.662276
581.658574	581.657155	581.658287	581.662223	581.669183
581.679341	581.692812	581.709623	581.729696	581.752821
581.778621	581.806516	581.835698	581.865099	581.893412
581.919147	581.940779	581.956957	581.966760	581.969894
581.966760	581.958356	581.946050	581.931319	581.915533
581.899816	581.884985	581.871548	581.859730	581.849514
581.840682	581.832861	581.825561	581.818204	581.810159
581.800771	581.789378	581.775343	581.758070	581.737019
581.711724	581.681801	581.646953	581.606969	581.561721
581.511154	581.455280	581.394158	581.327892	581.256612
581.180476	581.099661	581.014368	580.924833	580.831336
580.734230	580.633965	580.531127	580.426475	580.320985
580.215879	580.112637	580.012977	579.918792	579.832044
579.754629	579.688241	579.634260	579.593683	579.567107
579.554740	579.556421	579.571627	579.599480	579.638741
579.687853	579.745019	579.808331	579.875902	579.945994

Row 94

581.916804	581.903604	581.890330	581.876992	581.863606
581.850192	581.836778	581.823403	581.810114	581.796971
581.784046	581.771427	581.759217	581.747537	581.736528
581.726347	581.717171	581.709194	581.702624	581.697680
581.694587	581.693567	581.694834	581.698580	581.704966
581.714107	581.726058	581.740796	581.758201	581.778037
581.799925	581.823330	581.847538	581.871662	581.894664
581.915418	581.932814	581.945905	581.954056	581.957055
581.955154	581.949007	581.939542	581.927799	581.914783
581.901356	581.888180	581.875697	581.864130	581.853508
581.843693	581.834411	581.825282	581.815845	581.805591
581.793977	581.780457	581.764498	581.745596	581.723293
581.697190	581.666953	581.632318	581.593094	581.549161
581.500461	581.446994	581.388810	581.326000	581.258690
581.187039	581.111234	581.031496	580.948090	580.861331
580.771607	580.679401	580.585312	580.490087	580.394641
580.300074	580.207667	580.118860	580.035201	579.958267
579.889573	579.830474	579.782091	579.745253	579.720471
579.707938	579.707530	579.718814	579.741060	579.773258
579.814155	579.862320	579.916230	579.974363	580.035287

Row 95

581.938386	581.925511	581.912599	581.899662	581.886717
581.873790	581.860909	581.848116	581.835457	581.822992
581.810791	581.798938	581.787530	581.776679	581.766511
581.757167	581.748804	581.741589	581.735700	581.731320
581.728635	581.727823	581.729052	581.732465	581.738176
581.746252	581.756706	581.769480	581.784430	581.801314
581.819773	581.839324	581.859357	581.879139	581.897850
581.914628	581.928655	581.939244	581.945938	581.948575
581.947311	581.942580	581.935019	581.925363	581.914347
581.902625	581.890719	581.878997	581.867661	581.856761
581.846211	581.835808	581.825257	581.814194	581.802204
581.788844	581.773661	581.756210	581.736068	581.712848
581.686209	581.655862	581.621577	581.583186	581.540577
581.493697	581.442544	581.387161	581.327635	581.264089
581.196683	581.125611	581.051107	580.973451	580.892977
580.810089	580.725275	580.639128	580.552358	580.465806
580.380451	580.297404	580.217876	580.143147	580.074501
580.013164	579.960235	579.916627	579.883027	579.859867
579.847316	579.845279	579.853403	579.871091	579.897518
579.931673	579.972402	580.018476	580.068654	580.121746

Row 96

581.959941	581.947383	581.934819	581.922265	581.909740
581.897270	581.884886	581.872628	581.860545	581.848693
581.837140	581.825965	581.815257	581.805118	581.795662
581.787015	581.779313	581.772701	581.767327	581.763346
581.760909	581.760157	581.761219	581.764200	581.769175
581.776178	581.785189	581.796129	581.808845	581.823099
581.838563	581.854812	581.871327	581.887510	581.902708
581.916257	581.927538	581.936042	581.941428	581.943565
581.942542	581.938651	581.932331	581.924102	581.914501
581.904018	581.893060	581.881921	581.870776	581.859678
581.848574	581.837314	581.825667	581.813343	581.800006
581.785295	581.768835	581.750256	581.729203	581.705351

581.678409	581.648132	581.614320	581.576826	581.535554
581.490456	581.441532	581.388826	581.332420	581.272439
581.209041	581.142425	581.072830	581.000543	580.925903
580.849315	580.771259	580.692302	580.613108	580.534441
580.457169	580.382251	580.310715	580.243626	580.182044
580.126971	580.079306	580.039798	580.009017	579.987324
579.974866	579.971572	579.977155	579.991127	580.012818
580.041405	580.075952	580.115455	580.158894	580.205276

Row 97

581.981445	581.969193	581.956964	581.944773	581.932643
581.920599	581.908675	581.896909	581.885348	581.874048
581.863070	581.852490	581.842389	581.832860	581.824003
581.815931	581.808760	581.802614	581.797619	581.793903
581.791585	581.790780	581.791582	581.794067	581.798279
581.804226	581.811869	581.821116	581.831813	581.843735
581.856587	581.870001	581.883540	581.896712	581.908999
581.919880	581.928880	581.935611	581.939808	581.941361
581.940318	581.936869	581.931318	581.924035	581.915408
581.905803	581.895531	581.884822	581.873820	581.862575
581.851053	581.839138	581.826652	581.813362	581.798997
581.783261	581.765845	581.746441	581.724755	581.700512
581.673468	581.643413	581.610180	581.573641	581.533715
581.490365	581.443593	581.393445	581.340005	581.283394
581.223773	581.161339	581.096333	581.029039	580.959795
580.888995	580.817101	580.744646	580.672241	580.600577
580.530419	580.462598	580.397989	580.337487	580.281973
580.232276	580.189137	580.153175	580.124862	580.104502
580.092222	580.087968	580.091508	580.102445	580.120232
580.144198	580.173576	580.207541	580.245249	580.285865

Row 98

582.002876	581.990918	581.979006	581.967159	581.955399
581.943752	581.932250	581.920933	581.909844	581.899036
581.888568	581.878508	581.868931	581.859919	581.851562
581.843957	581.837207	581.831414	581.826686	581.823126
581.820830	581.819885	581.820363	581.822313	581.825758
581.830687	581.837048	581.844743	581.853623	581.863481
581.874056	581.885030	581.896035	581.906669	581.916514
581.925159	581.932231	581.937427	581.940537	581.941464
581.940225	581.936944	581.931829	581.925141	581.917160
581.908155	581.898361	581.887956	581.877052	581.865693
581.853852	581.841444	581.828324	581.814307	581.799173
581.782679	581.764572	581.744597	581.722509	581.698079
581.671100	581.641399	581.608833	581.573296	581.534723
581.493084	581.448390	581.400689	581.350064	581.296637
581.240567	581.182048	581.121319	581.058657	580.994390
580.928897	580.862613	580.796034	580.729718	580.664285

==========
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Streamlines

Number of Streamlines = 250

Streamline #1

Coordinates of Streamline:
Start x: 9980.630000 y: 9512.860000
End x: 10068.693892 y: 9492.662778

Streamline #2

Coordinates of Streamline:
Start x: 9986.890847 y: 9520.738983
End x: 10066.305945 y: 9499.542207

Streamline #3

Coordinates of Streamline:
Start x: 9993.151695 y: 9528.617966
End x: 10063.938897 y: 9500.786102

Streamline #4

Coordinates of Streamline:
Start x: 9999.412542 y: 9536.496949
End x: 10067.467386 y: 9500.853313

Streamline #5

Coordinates of Streamline:
Start x: 10005.673390 y: 9544.375932

580.600409	580.538812	580.480243	580.425458	580.375195
580.330146	580.290926	580.258051	580.231914	580.212771
580.200731	580.195754	580.197654	580.206107	580.220666
580.240778	580.265814	580.295092	580.327906	580.363554

Row 99

582.024216	582.012537	582.000927	581.989402	581.977986
581.966706	581.955592	581.944681	581.934017	581.923648
581.913628	581.904020	581.894891	581.886315	581.878371
581.871144	581.864719	581.859187	581.854633	581.851142
581.848791	581.847645	581.847756	581.849154	581.851845
581.855804	581.860974	581.867254	581.874504	581.882537
581.891123	581.899988	581.908825	581.917301	581.925076
581.931822	581.937242	581.941093	581.943204	581.943487
581.941941	581.938640	581.933725	581.927378	581.919799
581.911185	581.901710	581.891507	581.880663	581.869210
581.857130	581.844352	581.830763	581.816211	581.800519
581.783488	581.764909	581.744573	581.722275	581.697826
581.671055	581.641815	581.609990	581.575493	581.538272
581.498308	581.455619	581.410254	581.362300	581.311877
581.259140	581.204281	581.147530	581.089155	581.029471
580.968835	580.907654	580.846385	580.785536	580.725658
580.667349	580.611234	580.557958	580.508164	580.462475
580.421471	580.385670	580.355500	580.331294	580.313266
580.301513	580.296004	580.296590	580.303007	580.314886
580.331773	580.353147	580.378441	580.407063	580.438419

Row 100

582.045446	582.034034	582.022707	582.011484	582.000388
581.989445	581.978684	581.968142	581.957858	581.947877
581.938250	581.929033	581.920286	581.912074	581.904468
581.897540	581.891363	581.886012	581.881558	581.878070
581.875606	581.874216	581.873934	581.874776	581.876737
581.879783	581.883851	581.888846	581.894637	581.901056
581.907900	581.914936	581.921905	581.928530	581.934535
581.939650	581.943637	581.946298	581.947490	581.947132
581.945208	581.941760	581.936880	581.930692	581.923338
581.914959	581.905681	581.895603	581.884787	581.873259
581.860999	581.847952	581.834024	581.819094	581.803016
581.785627	581.766757	581.746232	581.723884	581.699557
581.673108	581.644419	581.613393	581.579962	581.544087
581.505759	581.465001	581.421868	581.376446	581.328853
581.279241	581.227796	581.174739	581.120327	581.064857
581.008663	580.952124	580.895657	580.839720	580.784808
580.731445	580.680179	580.631563	580.586150	580.544468
580.507008	580.474206	580.446424	580.423941	580.406941
580.395507	580.389619	580.389155	580.393900	580.403549
580.417729	580.436004	580.457900	580.482920	580.510559

End x: 10063.413284 y: 9509.810351

Streamline #6

Coordinates of Streamline:
Start x: 10011.934237 y: 9552.254915
End x: 10071.765029 y: 9506.046876

Streamline #7

Coordinates of Streamline:
Start x: 10018.195085 y: 9560.133898
End x: 10089.502892 y: 9520.576329

Streamline #8

Coordinates of Streamline:
Start x: 10024.455932 y: 9568.012881
End x: 10088.516807 y: 9527.761026

Streamline #9

Coordinates of Streamline:
Start x: 10030.716780 y: 9575.891864
End x: 10083.306856 y: 9533.886208

Streamline #10

Coordinates of Streamline:
Start x: 10036.977627 y: 9583.770847
End x: 10086.409754 y: 9538.211530

Streamline #11

Coordinates of Streamline:
Start x: 10043.238475 y: 9591.649831
End x: 10091.594683 y: 9534.277832

Streamline #12

Coordinates of Streamline:

Start x: 10049.499322 y: 9599.528814
End x: 10093.558722 y: 9534.024758

Streamline #13

Coordinates of Streamline:
Start x: 10055.760169 y: 9607.407797
End x: 10098.712736 y: 9531.787231

Streamline #14

Coordinates of Streamline:
Start x: 10062.021017 y: 9615.286780
End x: 10108.783444 y: 9566.901439

Streamline #15

Coordinates of Streamline:
Start x: 10068.281864 y: 9623.165763
End x: 10112.669505 y: 9572.769097

Streamline #16

Coordinates of Streamline:
Start x: 10074.542712 y: 9631.044746
End x: 10120.197208 y: 9570.816971

Streamline #17

Coordinates of Streamline:
Start x: 10080.803559 y: 9638.923729
End x: 10120.990758 y: 9565.140545

Streamline #18

Coordinates of Streamline:
Start x: 10087.064407 y: 9646.802712
End x: 10132.389480 y: 9597.069731

Streamline #19

Coordinates of Streamline:
Start x: 10093.325254 y: 9654.681695
End x: 10142.251723 y: 9595.524907

Streamline #20

Coordinates of Streamline:
Start x: 10099.586102 y: 9662.560678
End x: 10144.309326 y: 9601.628698

Streamline #21

Coordinates of Streamline:
Start x: 10105.846949 y: 9670.439661
End x: 10153.332285 y: 9589.476611

Streamline #22

Coordinates of Streamline:
Start x: 10112.107797 y: 9678.318644
End x: 10157.192810 y: 9628.365540

Streamline #23

Coordinates of Streamline:
Start x: 10118.368644 y: 9686.197627
End x: 10165.956652 y: 9626.333228

Streamline #24

Coordinates of Streamline:
Start x: 10124.629492 y: 9694.076610
End x: 10171.136981 y: 9634.292414

Streamline #25

Coordinates of Streamline:
Start x: 10130.890339 y: 9701.955593
End x: 10187.348817 y: 9654.551872

Streamline #26

Coordinates of Streamline:
Start x: 10137.151186 y: 9709.834576
End x: 10182.683543 y: 9660.302950

Streamline #27

Coordinates of Streamline:
Start x: 10143.412034 y: 9717.713559
End x: 10187.796126 y: 9657.106705

Streamline #28

Coordinates of Streamline:
Start x: 10149.672881 y: 9725.592542
End x: 10191.786469 y: 9660.998030

Streamline #29

Coordinates of Streamline:
Start x: 10155.933729 y: 9733.471525
End x: 10203.461962 y: 9685.916039

Streamline #30

Coordinates of Streamline:
Start x: 10162.194576 y: 9741.350508
End x: 10207.380378 y: 9691.776529

Streamline #31

Coordinates of Streamline:
Start x: 10168.455424 y: 9749.229492
End x: 10212.736889 y: 9690.508431

Streamline #32

Coordinates of Streamline:
Start x: 10174.716271 y: 9757.108475
End x: 10233.768625 y: 9714.440498

Streamline #33

Coordinates of Streamline:
Start x: 10180.977119 y: 9764.987458
End x: 10230.141712 y: 9719.114162

Streamline #34

Coordinates of Streamline:
Start x: 10187.237966 y: 9772.866441
End x: 10236.598240 y: 9716.584251

Streamline #35

Coordinates of Streamline:
Start x: 10193.498814 y: 9780.745424
End x: 10255.219175 y: 9739.272153

Streamline #36

Coordinates of Streamline:
Start x: 10199.759661 y: 9788.624407
End x: 10253.320371 y: 9747.980023

Streamline #37

Coordinates of Streamline:
Start x: 10206.020508 y: 9796.503390
End x: 10256.735441 y: 9752.829678

Streamline #38

Coordinates of Streamline:
Start x: 10212.281356 y: 9804.382373
End x: 10260.456222 y: 9751.774089

Streamline #39

Coordinates of Streamline:
Start x: 10218.542203 y: 9812.261356
End x: 10273.724513 y: 9774.626439

Streamline #40

Coordinates of Streamline:
Start x: 10224.803051 y: 9820.140339
End x: 10278.574170 y: 9780.098585

Streamline #41

Coordinates of Streamline:
Start x: 10231.063898 y: 9828.019322
End x: 10280.252294 y: 9782.332847

Streamline #42

Coordinates of Streamline:
Start x: 10237.324746 y: 9835.898305
End x: 10281.928969 y: 9786.690048

Streamline #43

Coordinates of Streamline:
Start x: 10243.585593 y: 9843.777288
End x: 10284.138093 y: 9785.568967

Streamline #44

Coordinates of Streamline:
Start x: 10249.846441 y: 9851.656271
End x: 10304.126458 y: 9810.958927

Streamline #45

Coordinates of Streamline:
Start x: 10256.107288 y: 9859.535254
End x: 10300.880471 y: 9809.790820

Streamline #46

Coordinates of Streamline:
Start x: 10262.368136 y: 9867.414237
End x: 10302.122031 y: 9813.158656

Streamline #47

Coordinates of Streamline:
Start x: 10268.628983 y: 9875.293220
End x: 10309.777926 y: 9810.636147

Streamline #48

Coordinates of Streamline:
Start x: 10274.889831 y: 9883.172203
End x: 10307.488125 y: 9813.641192

Streamline #49

Coordinates of Streamline:
Start x: 10281.150678 y: 9891.051186
End x: 10312.198321 y: 9810.747492

Streamline #50

Coordinates of Streamline:
Start x: 10287.411525 y: 9898.930169
End x: 10310.182140 y: 9817.117111

Streamline #51

Coordinates of Streamline:
Start x: 10293.672373 y: 9906.809153
End x: 10312.881707 y: 9815.355822

Streamline #52

Coordinates of Streamline:
Start x: 10299.933220 y: 9914.688136
End x: 10317.390182 y: 9814.129083

Streamline #53

Coordinates of Streamline:
Start x: 10306.194068 y: 9922.567119
End x: 10325.215503 y: 9843.371242

Streamline #54

Coordinates of Streamline:
Start x: 10312.454915 y: 9930.446102
End x: 10331.486019 y: 9842.929145

Streamline #55

Coordinates of Streamline:
Start x: 10318.715763 y: 9938.325085
End x: 10331.459759 y: 9846.011688

Streamline #56

Coordinates of Streamline:
Start x: 10324.976610 y: 9946.204068
End x: 10326.234162 y: 9840.293456

Streamline #57

Coordinates of Streamline:
Start x: 10331.237458 y: 9954.083051
End x: 10328.743802 y: 9841.553012

Streamline #58

Coordinates of Streamline:
Start x: 10337.498305 y: 9961.962034
End x: 10452.329901 y: 9880.072214

Streamline #59

Coordinates of Streamline:
Start x: 10343.759153 y: 9969.841017
End x: 10453.068053 y: 9878.735399

Streamline #60

Coordinates of Streamline:
Start x: 10350.020000 y: 9977.720000
End x: 10452.958309 y: 9879.775380

Streamline #61

Coordinates of Streamline:
Start x: 10352.300000 y: 9973.150000
End x: 10452.814877 y: 9880.692850

Streamline #62

Coordinates of Streamline:
Start x: 10362.693265 y: 9969.654490
End x: 10454.628257 y: 9877.078878

Streamline #63

Coordinates of Streamline:
Start x: 10373.086531 y: 9966.158980
End x: 10455.619527 y: 9875.829831

Streamline #64

Coordinates of Streamline:
Start x: 10383.479796 y: 9962.663469
End x: 10456.441297 y: 9875.659697

Streamline #65

Coordinates of Streamline:
Start x: 10393.873061 y: 9959.167959
End x: 10457.281937 y: 9876.152178

Streamline #66

Coordinates of Streamline:
Start x: 10404.266327 y: 9955.672449
End x: 10458.237347 y: 9877.191034

Streamline #67

Coordinates of Streamline:
Start x: 10414.659592 y: 9952.176939
End x: 10460.388341 y: 9869.213566

Streamline #68

Coordinates of Streamline:
Start x: 10425.052857 y: 9948.681429
End x: 10461.981112 y: 9871.421982

Streamline #69

Coordinates of Streamline:
Start x: 10435.446122 y: 9945.185918
End x: 10464.004146 y: 9874.304727

Streamline #70

Coordinates of Streamline:
Start x: 10445.839388 y: 9941.690408
End x: 10466.641716 y: 9868.294512

Streamline #71

Coordinates of Streamline:
Start x: 10456.232653 y: 9938.194898
End x: 10469.208631 y: 9863.074185

Streamline #72

Coordinates of Streamline:
Start x: 10466.625918 y: 9934.699388
End x: 10473.948235 y: 9868.078668

Streamline #73

Coordinates of Streamline:
Start x: 10477.019184 y: 9931.203878
End x: 10478.112073 y: 9864.170005

Streamline #74

Coordinates of Streamline:
Start x: 10487.412449 y: 9927.708367
End x: 10482.895204 y: 9860.783075

Streamline #75

Coordinates of Streamline:
Start x: 10497.805714 y: 9924.212857
End x: 10488.383933 y: 9857.763320

Streamline #76

Coordinates of Streamline:
Start x: 10508.198980 y: 9920.717347
End x: 10494.583198 y: 9854.967742

Streamline #77

Coordinates of Streamline:
Start x: 10518.592245 y: 9917.221837
End x: 10501.449373 y: 9852.282114

Streamline #78

Coordinates of Streamline:
Start x: 10528.985510 y: 9913.726327
End x: 10508.925340 y: 9849.621336

Streamline #79

Coordinates of Streamline:
Start x: 10539.378776 y: 9910.230816
End x: 10516.972409 y: 9846.919015

Streamline #80

Coordinates of Streamline:
Start x: 10549.772041 y: 9906.735306
End x: 10525.606426 y: 9844.108424

Streamline #81

Coordinates of Streamline:
Start x: 10560.165306 y: 9903.239796
End x: 10529.332575 y: 9833.290550

Streamline #82

Coordinates of Streamline:
Start x: 10570.558571 y: 9899.744286
End x: 10539.127840 y: 9830.453527

Streamline #83

Coordinates of Streamline:
Start x: 10580.951837 y: 9896.248776
End x: 10560.952491 y: 9822.470292

Streamline #84

Coordinates of Streamline:
Start x: 10591.345102 y: 9892.753265
End x: 10575.089966 y: 9817.985746

Streamline #85

Coordinates of Streamline:
Start x: 10601.738367 y: 9889.257755
End x: 10586.061827 y: 9814.215845

Streamline #86

Coordinates of Streamline:
Start x: 10612.131633 y: 9885.762245
End x: 10595.821175 y: 9810.725346

Streamline #87

Coordinates of Streamline:
Start x: 10622.524898 y: 9882.266735
End x: 10604.986889 y: 9807.417033

Streamline #88

Coordinates of Streamline:
Start x: 10632.918163 y: 9878.771224
End x: 10615.859549 y: 9813.650864

Streamline #89

Coordinates of Streamline:
Start x: 10643.311429 y: 9875.275714
End x: 10625.057328 y: 9810.471072

Streamline #90

Coordinates of Streamline:
Start x: 10653.704694 y: 9871.780204
End x: 10634.237159 y: 9807.354561

Streamline #91

Coordinates of Streamline:
Start x: 10664.097959 y: 9868.284694
End x: 10643.755048 y: 9804.222539

Streamline #92

Coordinates of Streamline:
Start x: 10674.491224 y: 9864.789184
End x: 10657.303421 y: 9799.704222

Streamline #93

Coordinates of Streamline:
Start x: 10684.884490 y: 9861.293673
End x: 10669.408526 y: 9795.808598

Streamline #94

Coordinates of Streamline:
Start x: 10695.277755 y: 9857.798163
End x: 10680.136698 y: 9792.218535

Streamline #95

Coordinates of Streamline:
Start x: 10705.671020 y: 9854.302653
End x: 10690.548036 y: 9788.708032

Streamline #96

Coordinates of Streamline:
Start x: 10716.064286 y: 9850.807143
End x: 10700.800764 y: 9785.238648

Streamline #97

Coordinates of Streamline:
Start x: 10726.457551 y: 9847.311633
End x: 10710.956960 y: 9781.795227

Streamline #98

Coordinates of Streamline:
Start x: 10736.850816 y: 9843.816122
End x: 10721.033093 y: 9778.373877

Streamline #99

Coordinates of Streamline:
Start x: 10747.244082 y: 9840.320612
End x: 10731.012523 y: 9774.979876

Streamline #100

Coordinates of Streamline:
Start x: 10757.637347 y: 9836.825102
End x: 10740.845429 y: 9771.630032

Streamline #101

Coordinates of Streamline:
Start x: 10768.030612 y: 9833.329592
End x: 10753.396444 y: 9777.517952

Streamline #102

Coordinates of Streamline:
Start x: 10778.423878 y: 9829.834082
End x: 10763.881950 y: 9773.998400

Streamline #103

Coordinates of Streamline:
Start x: 10788.817143 y: 9826.338571
End x: 10775.212036 y: 9770.258203

Streamline #104

Coordinates of Streamline:
Start x: 10799.210408 y: 9822.843061
End x: 10785.655257 y: 9766.749569

Streamline #105

Coordinates of Streamline:
Start x: 10809.603673 y: 9819.347551
End x: 10795.772954 y: 9763.320993

Streamline #106

Coordinates of Streamline:
Start x: 10819.996939 y: 9815.852041
End x: 10805.792922 y: 9759.920294

Streamline #107

Coordinates of Streamline:

Start x: 10830.390204 y: 9812.356531
End x: 10815.814229 y: 9756.522174

Streamline #108

Coordinates of Streamline:
Start x: 10840.783469 y: 9808.861020
End x: 10825.862350 y: 9753.118944

Streamline #109

Coordinates of Streamline:
Start x: 10851.176735 y: 9805.365510
End x: 10835.896106 y: 9749.721999

Streamline #110

Coordinates of Streamline:
Start x: 10861.570000 y: 9801.870000
End x: 10845.836055 y: 9746.356122

Streamline #111

Coordinates of Streamline:
Start x: 10871.850000 y: 9796.160000
End x: 10858.365884 y: 9750.011882

Streamline #112

Coordinates of Streamline:
Start x: 10879.318378 y: 9794.370135
End x: 10865.573817 y: 9748.311464

Streamline #113

Coordinates of Streamline:
Start x: 10886.786757 y: 9792.580270
End x: 10873.000885 y: 9746.551668

Streamline #114

Coordinates of Streamline:
Start x: 10894.255135 y: 9790.790405
End x: 10872.770233 y: 9740.352165

Streamline #115

Coordinates of Streamline:
Start x: 10901.723514 y: 9789.000541
End x: 10890.312867 y: 9732.598486

Streamline #116

Coordinates of Streamline:
Start x: 10909.191892 y: 9787.210676
End x: 10897.911444 y: 9730.699476

Streamline #117

Coordinates of Streamline:
Start x: 10916.660270 y: 9785.420811
End x: 10905.128164 y: 9728.923481

Streamline #118

Coordinates of Streamline:
Start x: 10924.128649 y: 9783.630946
End x: 10912.147549 y: 9727.206625

Streamline #119

Coordinates of Streamline:
Start x: 10931.597027 y: 9781.841081
End x: 10919.074587 y: 9725.523032

Streamline #120

Coordinates of Streamline:
Start x: 10939.065405 y: 9780.051216
End x: 10925.965667 y: 9723.858468

Streamline #121

Coordinates of Streamline:
Start x: 10946.533784 y: 9778.261351
End x: 10932.843818 y: 9722.206123

Streamline #122

Coordinates of Streamline:
Start x: 10954.002162 y: 9776.471486
End x: 10939.707777 y: 9720.565334

Streamline #123

Coordinates of Streamline:
Start x: 10961.470541 y: 9774.681622
End x: 10946.542852 y: 9718.939714

Streamline #124

Coordinates of Streamline:
Start x: 10968.938919 y: 9772.891757
End x: 10953.329890 y: 9717.335344

Streamline #125

Coordinates of Streamline:
Start x: 10976.407297 y: 9771.101892
End x: 10960.050585 y: 9715.759895

Streamline #126

Coordinates of Streamline:
Start x: 10983.875676 y: 9769.312027
End x: 10966.690601 y: 9714.223002

Streamline #127

Coordinates of Streamline:
Start x: 10991.344054 y: 9767.522162
End x: 10973.244042 y: 9712.738740

Streamline #128

Coordinates of Streamline:
Start x: 10998.812432 y: 9765.732297
End x: 10979.732066 y: 9711.333720

Streamline #129

Coordinates of Streamline:
Start x: 11006.280811 y: 9763.942432
End x: 10985.723521 y: 9710.522769

Streamline #130

Coordinates of Streamline:
Start x: 11013.749189 y: 9762.152568
End x: 11000.961965 y: 9706.297260

Streamline #131

Coordinates of Streamline:
Start x: 11021.217568 y: 9760.362703
End x: 11008.072466 y: 9704.344310

Streamline #132

Coordinates of Streamline:
Start x: 11028.685946 y: 9758.572838
End x: 11015.080436 y: 9702.596965

Streamline #133

Coordinates of Streamline:
Start x: 11036.154324 y: 9756.782973
End x: 11021.920434 y: 9700.926184

Streamline #134

Coordinates of Streamline:
Start x: 11043.622703 y: 9754.993108
End x: 11028.695541 y: 9699.294645

Streamline #135

Coordinates of Streamline:
Start x: 11051.091081 y: 9753.203243
End x: 11035.464735 y: 9697.682257

Streamline #136

Coordinates of Streamline:
Start x: 11058.559459 y: 9751.413378
End x: 11042.264868 y: 9696.075293

Streamline #137

Coordinates of Streamline:
Start x: 11066.027838 y: 9749.623514
End x: 11049.115811 y: 9694.464523

Streamline #138

Coordinates of Streamline:
Start x: 11073.496216 y: 9747.833649
End x: 11056.024618 y: 9692.844570

Streamline #139

Coordinates of Streamline:
Start x: 11080.964595 y: 9746.043784
End x: 11062.991227 y: 9691.212716

Streamline #140

Coordinates of Streamline:
Start x: 11088.432973 y: 9744.253919
End x: 11070.014452 y: 9689.567333

Streamline #141

Coordinates of Streamline:
Start x: 11095.901351 y: 9742.464054
End x: 11077.098326 y: 9687.906186

Streamline #142

Coordinates of Streamline:
Start x: 11103.369730 y: 9740.674189
End x: 11084.262424 y: 9686.224138

Streamline #143

Coordinates of Streamline:
Start x: 11110.838108 y: 9738.884324
End x: 11091.566711 y: 9684.509933

Streamline #144

Coordinates of Streamline:
Start x: 11118.306486 y: 9737.094459
End x: 11099.263409 y: 9682.721710

Streamline #145

Coordinates of Streamline:
Start x: 11125.774865 y: 9735.304595
End x: 11111.946280 y: 9679.576542

Streamline #146

Coordinates of Streamline:
Start x: 11133.243243 y: 9733.514730
End x: 11119.338334 y: 9677.664289

Streamline #147

Coordinates of Streamline:
Start x: 11140.711622 y: 9731.724865
End x: 11126.470289 y: 9675.890693

Streamline #148

Coordinates of Streamline:
Start x: 11148.180000 y: 9729.935000
End x: 11133.543620 y: 9674.161876

Streamline #149

Coordinates of Streamline:
Start x: 11155.648378 y: 9728.145135
End x: 11140.583839 y: 9672.462491

Streamline #150

Coordinates of Streamline:
Start x: 11163.116757 y: 9726.355270
End x: 11147.631247 y: 9670.775035

Streamline #151

Coordinates of Streamline:
Start x: 11170.585135 y: 9724.565405
End x: 11154.707761 y: 9669.088697

Streamline #152

Coordinates of Streamline:
Start x: 11178.053514 y: 9722.775541
End x: 11161.772939 y: 9667.412486

Streamline #153

Coordinates of Streamline:
Start x: 11185.521892 y: 9720.985676
End x: 11168.801849 y: 9665.753407

Streamline #154

Coordinates of Streamline:
Start x: 11192.990270 y: 9719.195811
End x: 11175.773757 y: 9664.120375

Streamline #155

Coordinates of Streamline:
Start x: 11200.458649 y: 9717.405946
End x: 11182.660239 y: 9662.530895

Streamline #156

Coordinates of Streamline:
Start x: 11207.927027 y: 9715.616081
End x: 11189.466814 y: 9661.005563

Streamline #157

Coordinates of Streamline:
Start x: 11215.395405 y: 9713.826216
End x: 11196.274846 y: 9659.579778

Streamline #158

Coordinates of Streamline:
Start x: 11222.863784 y: 9712.036351
End x: 11203.851985 y: 9658.063856

Streamline #159

Coordinates of Streamline:
Start x: 11230.332162 y: 9710.246486
End x: 11217.193660 y: 9654.054638

Streamline #160

Coordinates of Streamline:
Start x: 11237.800541 y: 9708.456622
End x: 11228.970908 y: 9651.569101

Streamline #161

Coordinates of Streamline:
Start x: 11245.268919 y: 9706.666757
End x: 11238.806796 y: 9649.557653

Streamline #162

Coordinates of Streamline:
Start x: 11252.737297 y: 9704.876892
End x: 11247.244548 y: 9647.669124

Streamline #163

Coordinates of Streamline:
Start x: 11260.205676 y: 9703.087027
End x: 11254.710578 y: 9645.838780

Streamline #164

Coordinates of Streamline:
Start x: 11267.674054 y: 9701.297162
End x: 11261.487521 y: 9644.068014

Streamline #165

Coordinates of Streamline:
Start x: 11275.142432 y: 9699.507297
End x: 11267.767939 y: 9642.371195

Streamline #166

Coordinates of Streamline:
Start x: 11282.610811 y: 9697.717432
End x: 11273.687865 y: 9640.762960

Streamline #167

Coordinates of Streamline:
Start x: 11290.079189 y: 9695.927568
End x: 11279.347492 y: 9639.255404

Streamline #168

Coordinates of Streamline:
Start x: 11297.547568 y: 9694.137703
End x: 11284.826257 y: 9637.857686

Streamline #169

Coordinates of Streamline:
Start x: 11305.015946 y: 9692.347838
End x: 11290.196985 y: 9636.575939

Streamline #170

Coordinates of Streamline:
Start x: 11312.484324 y: 9690.557973
End x: 11295.536559 y: 9635.416622

Streamline #171

Coordinates of Streamline:
Start x: 11319.952703 y: 9688.768108
End x: 11301.244113 y: 9634.253902

Streamline #172

Coordinates of Streamline:
Start x: 11327.421081 y: 9686.978243
End x: 11308.542751 y: 9632.465963

Streamline #173

Coordinates of Streamline:
Start x: 11334.889459 y: 9685.188378
End x: 11315.958429 y: 9630.679448

Streamline #174

Coordinates of Streamline:
Start x: 11342.357838 y: 9683.398514
End x: 11323.363671 y: 9628.915831

Streamline #175

Coordinates of Streamline:
Start x: 11349.826216 y: 9681.608649
End x: 11330.764089 y: 9627.159989

Streamline #176

Coordinates of Streamline:
Start x: 11357.294595 y: 9679.818784
End x: 11338.228822 y: 9625.382458

Streamline #177

Coordinates of Streamline:
Start x: 11364.762973 y: 9678.028919
End x: 11346.086319 y: 9623.451826

Streamline #178

Coordinates of Streamline:
Start x: 11372.231351 y: 9676.239054
End x: 11354.613172 y: 9621.291450

Streamline #179

Coordinates of Streamline:
Start x: 11379.699730 y: 9674.449189
End x: 11363.922886 y: 9618.945004

Streamline #180

Coordinates of Streamline:
Start x: 11387.168108 y: 9672.659324
End x: 11374.054003 y: 9616.500274

Streamline #181

Coordinates of Streamline:
Start x: 11394.636486 y: 9670.869459
End x: 11384.759125 y: 9614.128710

Streamline #182

Coordinates of Streamline:
Start x: 11402.104865 y: 9669.079595
End x: 11397.367663 y: 9611.671151

Streamline #183

Coordinates of Streamline:
Start x: 11409.573243 y: 9667.289730
End x: 11410.410291 y: 9609.700055

Streamline #184

Coordinates of Streamline:
Start x: 11417.041622 y: 9665.499865
End x: 11423.761344 y: 9608.312662

Streamline #185

Coordinates of Streamline:
Start x: 11424.510000 y: 9663.710000
End x: 11437.472409 y: 9607.619242

Streamline #186

Coordinates of Streamline:
Start x: 11426.790000 y: 9663.710000
End x: 11442.506641 y: 9598.601908

Streamline #187

Coordinates of Streamline:
Start x: 11428.395781 y: 9669.740469
End x: 11452.626802 y: 9597.262058

Streamline #188

Coordinates of Streamline:
Start x: 11430.001563 y: 9675.770937
End x: 11470.051854 y: 9599.190886

Streamline #189

Coordinates of Streamline:
Start x: 11431.607344 y: 9681.801406
End x: 11487.744727 y: 9616.889874

Streamline #190

Coordinates of Streamline:
Start x: 11433.213125 y: 9687.831875
End x: 11488.511381 y: 9634.831324

Streamline #191

Coordinates of Streamline:
Start x: 11434.818906 y: 9693.862344
End x: 11495.918430 y: 9647.722581

Streamline #192

Coordinates of Streamline:
Start x: 11436.424688 y: 9699.892812
End x: 11493.268485 y: 9664.316364

Streamline #193

Coordinates of Streamline:
Start x: 11438.030469 y: 9705.923281
End x: 11498.495700 y: 9677.362273

Streamline #194

Coordinates of Streamline:
Start x: 11439.636250 y: 9711.953750
End x: 11502.372113 y: 9688.717097

Streamline #195

Coordinates of Streamline:
Start x: 11441.242031 y: 9717.984219
End x: 11505.419157 y: 9698.425190

Streamline #196

Coordinates of Streamline:
Start x: 11442.847813 y: 9724.014687
End x: 11508.044814 y: 9707.656453

Streamline #197

Coordinates of Streamline:
Start x: 11444.453594 y: 9730.045156
End x: 11510.393650 y: 9716.633579

Streamline #198

Coordinates of Streamline:
Start x: 11446.059375 y: 9736.075625
End x: 11512.452688 y: 9724.971048

Streamline #199

Coordinates of Streamline:
Start x: 11447.665156 y: 9742.106094
End x: 11514.296710 y: 9732.761212

Streamline #200

Coordinates of Streamline:
Start x: 11449.270938 y: 9748.136563
End x: 11515.953051 y: 9739.748414

Streamline #201

Coordinates of Streamline:
Start x: 11450.876719 y: 9754.167031
End x: 11517.489090 y: 9745.756954

Streamline #202

Coordinates of Streamline:

Start x: 11452.482500 y: 9760.197500
End x: 11518.983850 y: 9750.865949

Streamline #203

Coordinates of Streamline:
Start x: 11454.088281 y: 9766.227969
End x: 11520.448884 y: 9755.694193

Streamline #204

Coordinates of Streamline:
Start x: 11455.694063 y: 9772.258437
End x: 11521.882570 y: 9760.541680

Streamline #205

Coordinates of Streamline:
Start x: 11457.299844 y: 9778.288906
End x: 11523.284985 y: 9765.419651

Streamline #206

Coordinates of Streamline:
Start x: 11458.905625 y: 9784.319375
End x: 11524.519295 y: 9770.013825

Streamline #207

Coordinates of Streamline:
Start x: 11460.511406 y: 9790.349844
End x: 11517.118657 y: 9779.149920

Streamline #208

Coordinates of Streamline:
Start x: 11462.117188 y: 9796.380312
End x: 11518.586037 y: 9784.497331

Streamline #209

Coordinates of Streamline:
Start x: 11463.722969 y: 9802.410781
End x: 11519.988595 y: 9789.598258

Streamline #210

Coordinates of Streamline:
Start x: 11465.328750 y: 9808.441250
End x: 11521.349735 y: 9794.597159

Streamline #211

Coordinates of Streamline:
Start x: 11466.934531 y: 9814.471719
End x: 11522.679633 y: 9799.556035

Streamline #212

Coordinates of Streamline:
Start x: 11468.540313 y: 9820.502188
End x: 11523.981676 y: 9804.495748

Streamline #213

Coordinates of Streamline:
Start x: 11470.146094 y: 9826.532656
End x: 11525.255981 y: 9809.421402

Streamline #214

Coordinates of Streamline:
Start x: 11471.751875 y: 9832.563125
End x: 11526.500478 y: 9814.330538

Streamline #215

Coordinates of Streamline:
Start x: 11473.357656 y: 9838.593594
End x: 11527.711350 y: 9819.216666

Streamline #216

Coordinates of Streamline:
Start x: 11474.963438 y: 9844.624062
End x: 11528.883294 y: 9824.071312

Streamline #217

Coordinates of Streamline:
Start x: 11476.569219 y: 9850.654531
End x: 11530.009798 y: 9828.885588

Streamline #218

Coordinates of Streamline:
Start x: 11478.175000 y: 9856.685000
End x: 11531.083530 y: 9833.651736

Streamline #219

Coordinates of Streamline:
Start x: 11479.780781 y: 9862.715469
End x: 11532.096962 y: 9838.364875

Streamline #220

Coordinates of Streamline:
Start x: 11481.386563 y: 9868.745938
End x: 11533.043330 y: 9843.025073

Streamline #221

Coordinates of Streamline:
Start x: 11482.992344 y: 9874.776406
End x: 11533.918077 y: 9847.639811

Streamline #222

Coordinates of Streamline:
Start x: 11484.598125 y: 9880.806875
End x: 11543.254560 y: 9847.790034

Streamline #223

Coordinates of Streamline:
Start x: 11486.203906 y: 9886.837344
End x: 11543.782648 y: 9851.998803

Streamline #224

Coordinates of Streamline:
Start x: 11487.809688 y: 9892.867812
End x: 11544.194194 y: 9856.188811

Streamline #225

Coordinates of Streamline:
Start x: 11489.415469 y: 9898.898281
End x: 11544.496274 y: 9860.420475

Streamline #226

Coordinates of Streamline:
Start x: 11491.021250 y: 9904.928750
End x: 11544.717149 y: 9864.795112

Streamline #227

Coordinates of Streamline:
Start x: 11492.627031 y: 9910.959219
End x: 11544.921882 y: 9869.474990

Streamline #228

Coordinates of Streamline:
Start x: 11494.232813 y: 9916.989687
End x: 11545.332579 y: 9874.784844

Streamline #229

Coordinates of Streamline:
Start x: 11495.838594 y: 9923.020156
End x: 11547.398637 y: 9881.580851

Streamline #230

Coordinates of Streamline:
Start x: 11497.444375 y: 9929.050625
End x: 11553.672932 y: 9880.293882

Streamline #231

Coordinates of Streamline:
Start x: 11499.050156 y: 9935.081094
End x: 11558.194748 y: 9870.943458

Streamline #232

Coordinates of Streamline:
Start x: 11500.655938 y: 9941.111563
End x: 11554.666062 y: 9861.224342

Streamline #233

Coordinates of Streamline:
Start x: 11502.261719 y: 9947.142031
End x: 11580.970946 y: 9894.607465

Streamline #234

Coordinates of Streamline:
Start x: 11503.867500 y: 9953.172500
End x: 11587.563740 y: 9907.191445

Streamline #235

Coordinates of Streamline:
Start x: 11505.473281 y: 9959.202969
End x: 11592.413954 y: 9918.834265

Streamline #236

Coordinates of Streamline:
Start x: 11507.079063 y: 9965.233437
End x: 11596.292153 y: 9929.732328

Streamline #237

Coordinates of Streamline:
Start x: 11508.684844 y: 9971.263906
End x: 11599.515446 y: 9939.889666

Streamline #238

Coordinates of Streamline:
Start x: 11510.290625 y: 9977.294375
End x: 11602.320723 y: 9949.498935

Streamline #239

Coordinates of Streamline:
Start x: 11511.896406 y: 9983.324844
End x: 11604.566958 y: 9958.021439

Streamline #240

Coordinates of Streamline:
Start x: 11513.502188 y: 9989.355313
End x: 11597.866893 y: 9970.482457

Streamline #241

Coordinates of Streamline:
Start x: 11515.107969 y: 9995.385781
End x: 11599.694536 y: 9977.431944

Streamline #242

Coordinates of Streamline:
Start x: 11516.713750 y: 10001.416250
End x: 11601.343417 y: 9983.489966

Streamline #243

Coordinates of Streamline:
Start x: 11518.319531 y: 10007.446719
End x: 11602.888117 y: 9989.159221

Streamline #244

Coordinates of Streamline:
Start x: 11519.925313 y: 10013.477188
End x: 11604.354268 y: 9994.560380

Streamline #245

Coordinates of Streamline:
Start x: 11521.531094 y: 10019.507656
End x: 11605.752352 y: 9999.745816

Streamline #246

Coordinates of Streamline:
Start x: 11523.136875 y: 10025.538125
End x: 11607.085222 y: 10004.743796

Streamline #247

Coordinates of Streamline:
Start x: 11524.742656 y: 10031.568594
End x: 11608.351364 y: 10009.572051

Streamline #248

Coordinates of Streamline:
Start x: 11526.348438 y: 10037.599063
End x: 11609.546438 y: 10014.243261

Streamline #249

Coordinates of Streamline:
Start x: 11527.954219 y: 10043.629531
End x: 11610.664070 y: 10018.767741

Streamline #250

Coordinates of Streamline:
Start x: 11529.560000 y: 10049.660000
End x: 11611.696282 y: 10023.155049

****

Particle Traces

Number of Particle-traces = 0

APPENDIX C-5

GROUNDWATER MODELING OF REMEDIAL ALTERNATIVES – AREA BCE

Area BCE Constituent Migration Analysis Worksheets

Worksheet C-5.1
Predicted Aniline Concentrations Downgradient of Area B

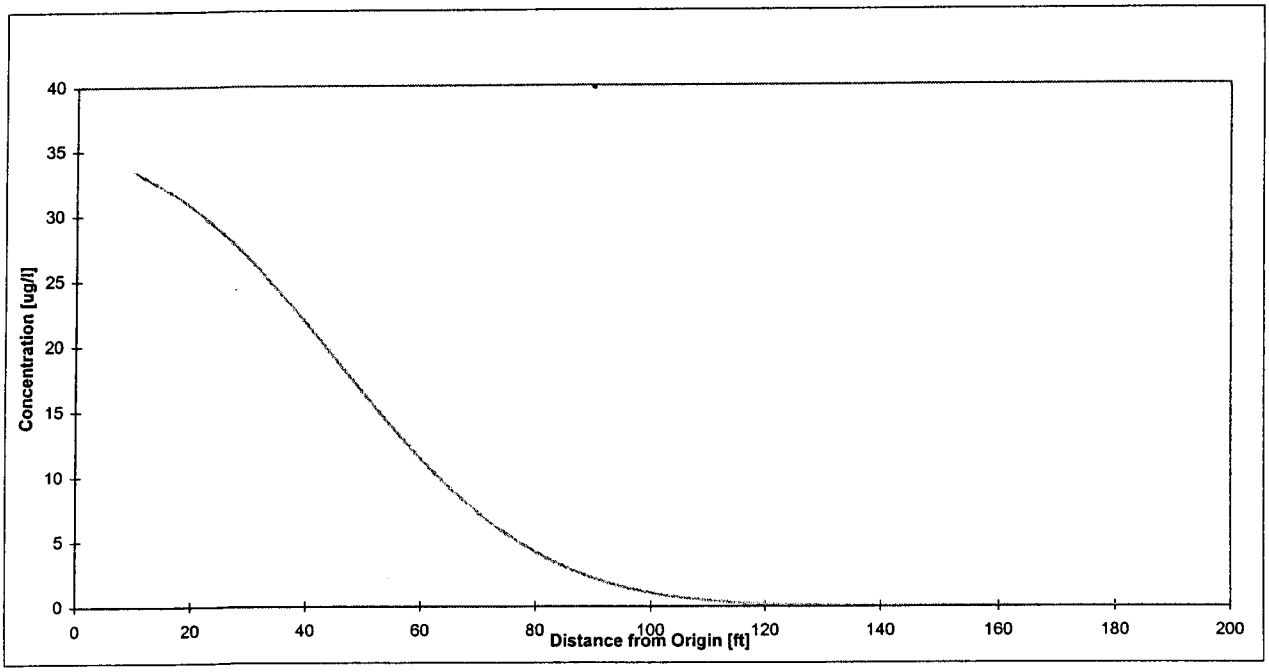
Steady State One-Dimensional Advection/Dispersion Model with Reaction Terms (Degradation)

$$C(x,t) = \frac{C_o}{2} exp\left(\frac{Ux}{2D}\right)\left\{exp(-Bx)erfc\left[\frac{x - t\sqrt{(U/\omega R)^2 + 4\lambda D/\omega R}}{2\sqrt{Dt/\omega R}}\right] + exp(Bx)erfc\left[\frac{x + t\sqrt{(U/\omega R)^2 + 4\lambda D/\omega R}}{2\sqrt{Dt/\omega R}}\right]\right\}$$

where: $$B = \sqrt{(U/2D)^2 + (\lambda\omega R/D)}$$

Model Input Parameters

Darcy Velocity	U = K I		0.0003	[ft/day]
Dispersivity	a		10	[ft]
Dispersion Coefficient	D = a*U		0.0034	[ft2/day]
Total Porosity	ω		0.1	[Dimensionless]
Initial Concentration	C_o		35	[ug/l]
Retardation Factor	$R = 1 + K_d \rho_b/n$		2.40	[Dimensionless]
Bulk Density	ρ_b		2.15	[g/cm^3]
Distribution Coefficient	K_d		0.065	[cm^3/g] [ml/g]
Decay Coefficient	$\lambda = (\ln 2) / t_{1/2}$		0	[day-1]
Half-Life Time	$t_{1/2}$	NA		[days]
	$t_{1/2}$	NA		[years]
Simulation Time	t		31025	[days]
	t		85	[years]



Notes:
Hydraulic Conductivity = .00782 ft/day
Hydraulic Gradient = .043
Soil Organic Carbon = .005 (0.5%)
Octanol/Water Partition. Coeff. For Aniline = 13

Worksheet C-5.2
Predicted Chlorobenzene Concentrations Downgradient of the Area E Tank Farm

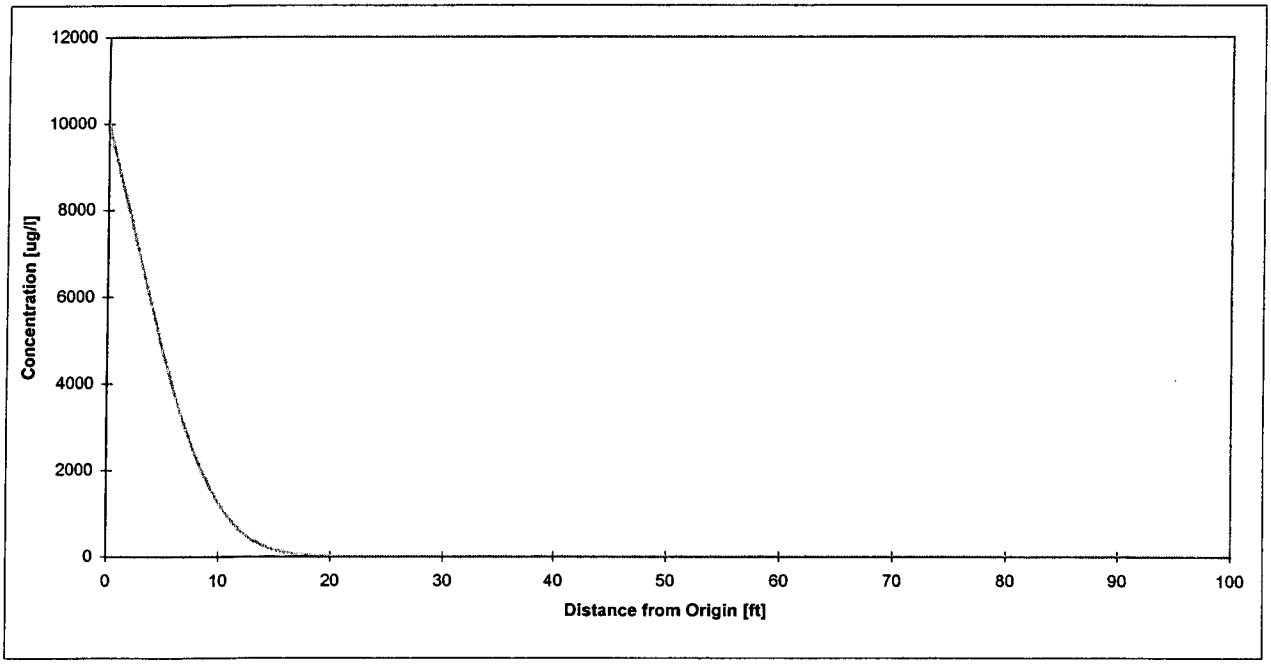
Steady State One-Dimensional Advection/Dispersion Model with Reaction Terms (Degradation)

$$C(x,t) = \frac{C_o}{2} exp\left(\frac{Ux}{2D}\right)\left\{exp(-Bx)erfc\left[\frac{x - t\sqrt{(U/\omega R)^2 + 4\lambda D/\omega R}}{2\sqrt{Dt/\omega R}}\right] + exp(Bx)erfc\left[\frac{x + t\sqrt{(U/\omega R)^2 + 4\lambda D/\omega R}}{2\sqrt{Dt/\omega R}}\right]\right\}$$

where: $B = \sqrt{(U/2D)^2 + (\lambda\omega R/D)}$

Model Input Parameters

Darcy Velocity	U = K I	0.0003	[ft/day]
Dispersivity	a	10	[ft]
Dispersion Coefficient	D = a*U	0.0031	[ft2/day]
Total Porosity	ω	0.1	[Dimensionless]
Initial Concentration	C_o	10000	[ug/l]
Retardation Factor	$R = 1 + K_d \rho_b/n$	35.19	[Dimensionless]
Bulk Density	ρ_b	2.15	[g/cm^3]
Distribution Coefficient	K_d	1.59	[cm^3/g] [ml/g]
Decay Coefficient	$\lambda = (\ln 2) / t_{1/2}$	0	[day-1]
Half-Life Time	$t_{1/2}$	NA	[days]
	$t_{1/2}$	NA	[years]
Simulation Time	t	18250	[days]
	t	50	[years]



Notes:
Hydraulic Conductivity = .00782
Hydraulic Gradient = .04
Soil Organic Carbon = .005 (0.5%)
Octanol/Water Partition. Coeff. For Chlorobenzene = 318

Worksheet C-5.3
Predicted Chloroform Concentrations Downgradient of the Former Lagoons

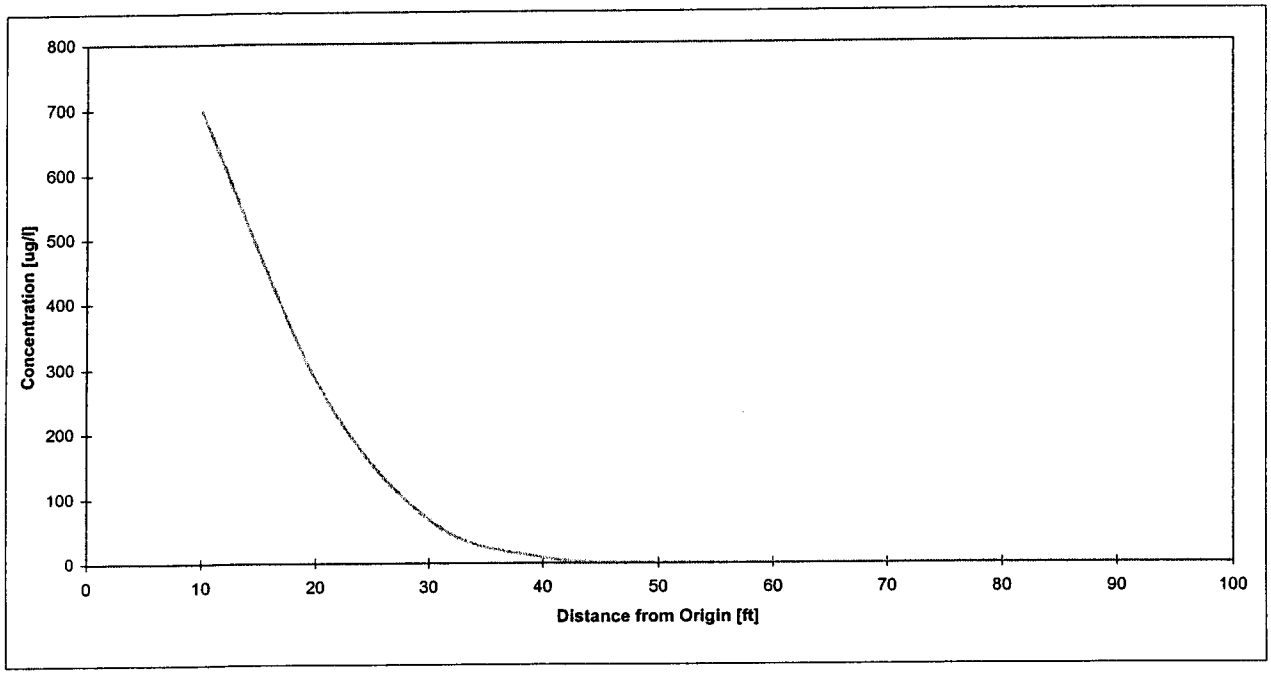
Steady State One-Dimensional Advection/Dispersion Model with Reaction Terms (Degradation)

$$C(x,t) = \frac{C_o}{2} exp\left(\frac{Ux}{2D}\right)\left\{exp(-Bx)erfc\left[\frac{x - t\sqrt{(U/\omega R)^2 + 4\lambda D/\omega R}}{2\sqrt{Dt/\omega R}}\right] + exp(Bx)erfc\left[\frac{x + t\sqrt{(U/\omega R)^2 + 4\lambda D/\omega R}}{2\sqrt{Dt/\omega R}}\right]\right\}$$

where: $B = \sqrt{(U/2D)^2 + (\lambda\omega R/D)}$

Model Input Parameters

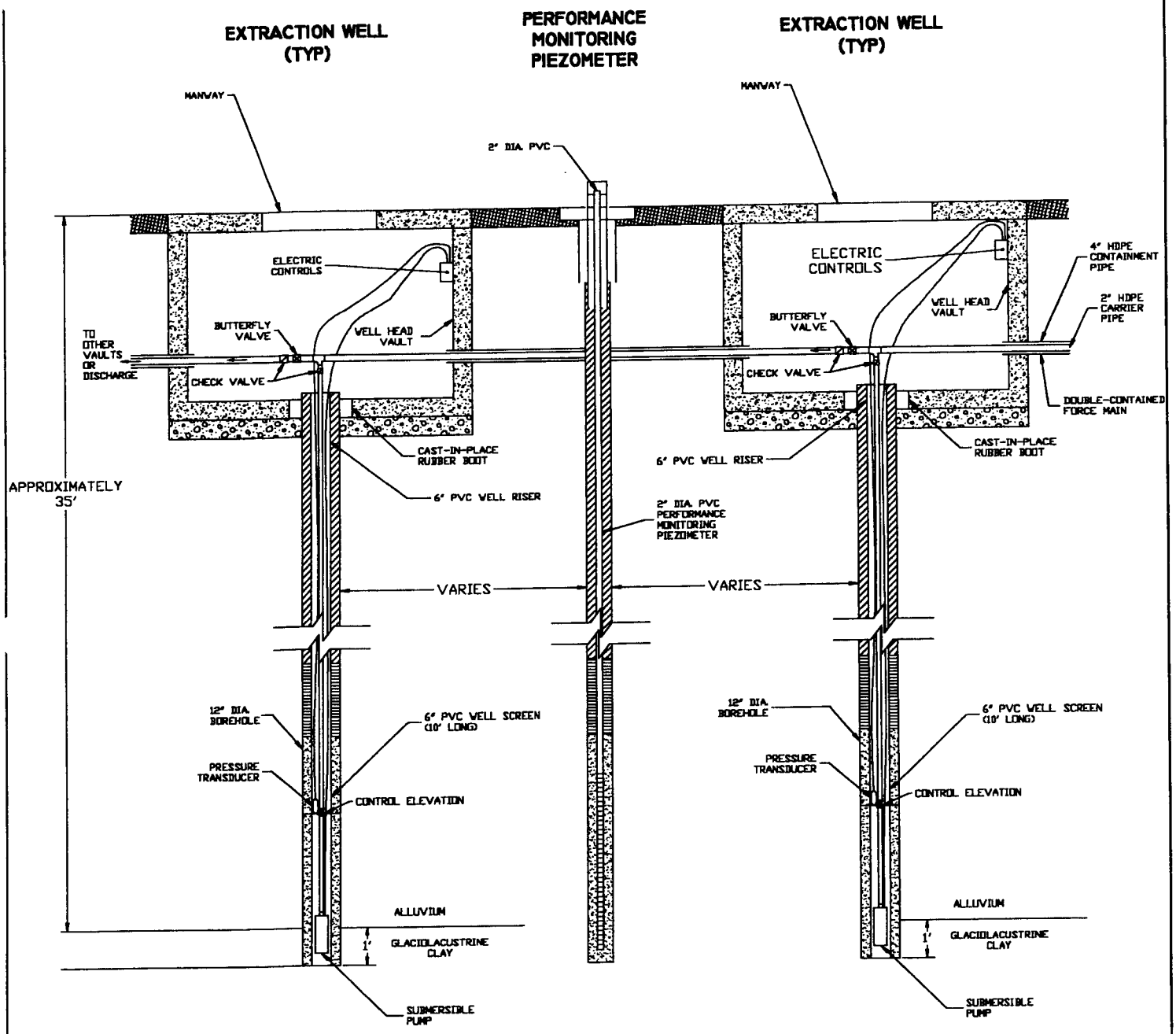
Darcy Velocity	U = K I	0.0003	[ft/day]
Dispersivity	a	10	[ft]
Dispersion Coefficient	D = a*U	0.0031	[ft2/day]
Total Porosity	ω	0.1	[Dimensionless]
Initial Concentration	C_o	1100	[ug/l]
Retardation Factor	$R = 1 + K_d \rho_b/n$	4.33	[Dimensionless]
Bulk Density	ρ_b	2.15	[g/cm^3]
Distribution Coefficient	K_d	0.155	[cm^3/g] [ml/g]
Decay Coefficient	$\lambda = (\ln 2) / t_{1/2}$	0	[day-1]
Half-Life Time	$t_{1/2}$	NA	[days]
	$t_{1/2}$	NA	[years]
Simulation Time	t	10950	[days]
	t	30	[years]



Notes:
Hydraulic Conductivity = .00782 ft/day
Hydraulic Gradient = .04
Soil Organic Carbon = .005 (0.5%)
Octanol/Water Partition. Coeff. For Chloroform = 34

APPENDIX D

ANCILLARY CORRECTIVE MEASURES SCHEMATICS



LEGEND

- ASPHALT
- STONE BEDDING
- CEMENT/BENTONITE GROUT
- BENTONITE SEAL
- SAND

4' 0 4'

scale feet

NOTES:

1. SEE FIG B-13 FOR PROPOSED EXTRACTION WELL LAYOUT.

Golder Associates Buffalo, New York

CLIENT/PROJECT: buffalo COLOR CORPORATION

TITLE: CONCEPTUAL DESIGN EXTRACTION WELL SYSTEM CORRECTIVE MEASURES STUDY AREA A.

DRAWN	LPG	DATE 11/17/99	JOB NO. 993-9206
CHECKED	DCW	SCALE 1"=4'	DWG. NO. BCC-038
REVIEWED	DJM	FILE NO. 993-9206	PROJECT NO. D-1

Conrail Railroad

Area–A

Area–B

Area–C

Area–D

Area–E

Allied Signal

PVS Chemicals

PVS Chemicals

Mobil Oil

LEE STREET

SOUTH PARK AVE.

ELK STREET

ORLANDO ST.

BUFFALO RIVER (ELEVATION = 573.19 ON 8/96)

BUFFALO RIVER FLOW

BUFFALO RIVER

BCC OUTFALL 008 (SUBMERGED)

BCC OUTFALL 011 (SUBMERGED)

PVS OUTFALL 004 I.E. 564.86 (PLUGGED), 18"ΦCT.

PVS OUTFALL 002 (PLUGGED)

PVS OUTFALL 002 I.E. 576.94

PVS OUTFALL 001 I.E. 574.40

LEGEND:

- RFI–21D — RFI MONITORING WELLS
- RFI–PZ–20 — RFI PIEZOMETERS
- PS–01 — PRE–RFI PIEZOMETERS
- R–04 — PRE–RFI MONITORING WELLS
- △ — RIVER STILLING WELL

NOTE:

PROPOSED CORRECTIVE MEASURES MONITORING WELL NETWORK IN RED

100 0 100
scale feet

CLIENT/PROJECT: buffalo color corporation

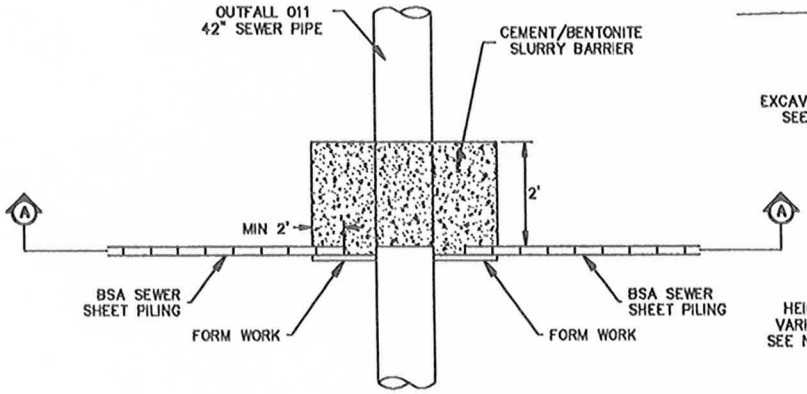
TITLE: CORRECTIVE MEASURES MONITORING WELL NETWORK AREA A, B, C, E.

Buffalo, New York

Golder Associates

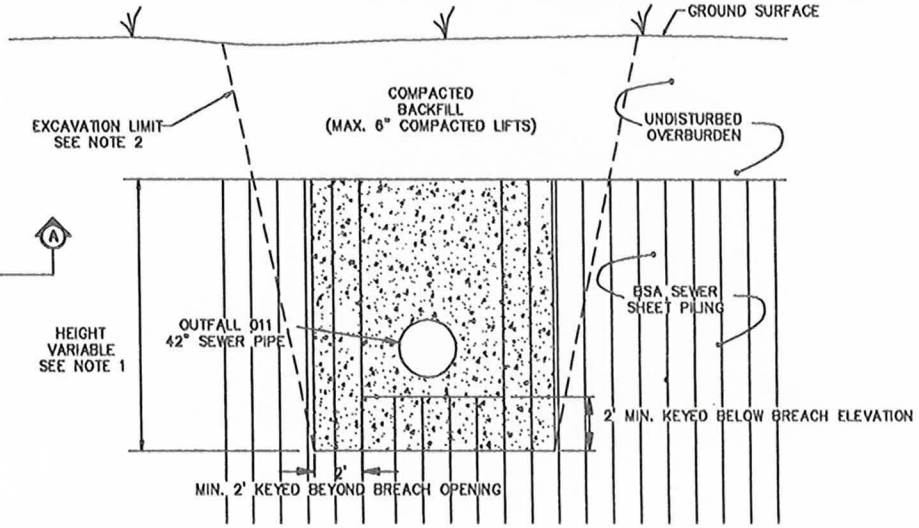
DRAWN	BEC
CHECKED	DCW
REVISED	DJM
APPROVED	
FILE NO.	963-2206
DATE	8/25/99
SCALE	AS SHOWN
JOB NO.	963-2206
DWG. NO.	800-045
FIGURE	D-2

REV.	DATE	DESCRIPTION	DR. BY	APP. BY



BREACH BARRIER PLAN VIEW

NOT TO SCALE



BREACH BARRIER - SECTION A

NOT TO SCALE

NOTES

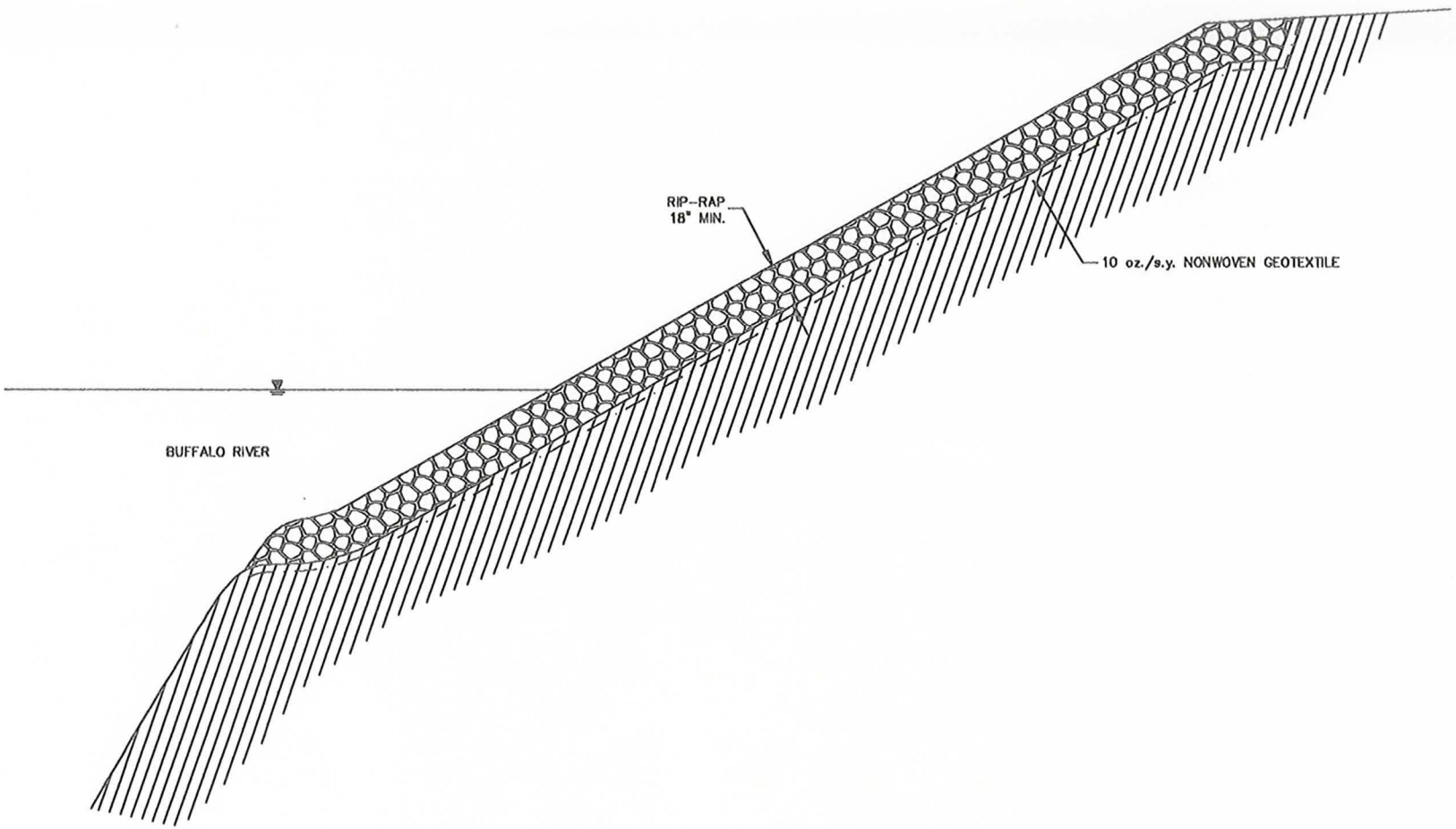
1. ACTUAL HEIGHT OF SLURRY BARRIER SHALL BE DETERMINED IN THE FIELD BASED ON THE ELEVATION OF THE TOP OF SHEAT PILING ABOVE THE STORM SEWER.
2. EXCAVATIONS SHALL BE SLOPED/BENCHED/SUPPORTED IN ACCORDANCE WITH OSHA REGULATIONS. A TRENCH BOX OR SHORING AND BRACING MAY ALSO BE USED SUBJECT TO THE SAME REGULATIONS.
3. TWO BARRIERS TO BE INSTALLED, ONE ON UPGRADIENT SHEETING, ONE ON DOWNGRADIENT SHEETING.

Golder Associates — Buffalo, New York

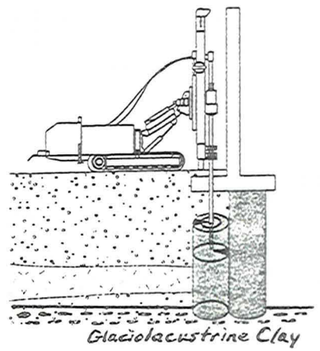
CLIENT/PROJECT: buffalo COLOR CORPORATION

TITLE: CONCEPTUAL AREA E BREACH REPAIR
CORRECTIVE MEASURES STUDY
AREAS A, B, C, E

DRAWN	LPG	DATE 11/16/99	JOB NO. 993-9206
CHECKED	DCW	SCALE NTS	DWG. NO. BCC-039
REVIEWED	DJM	FILE NO. 993-9206	FIGURE NO. D-3

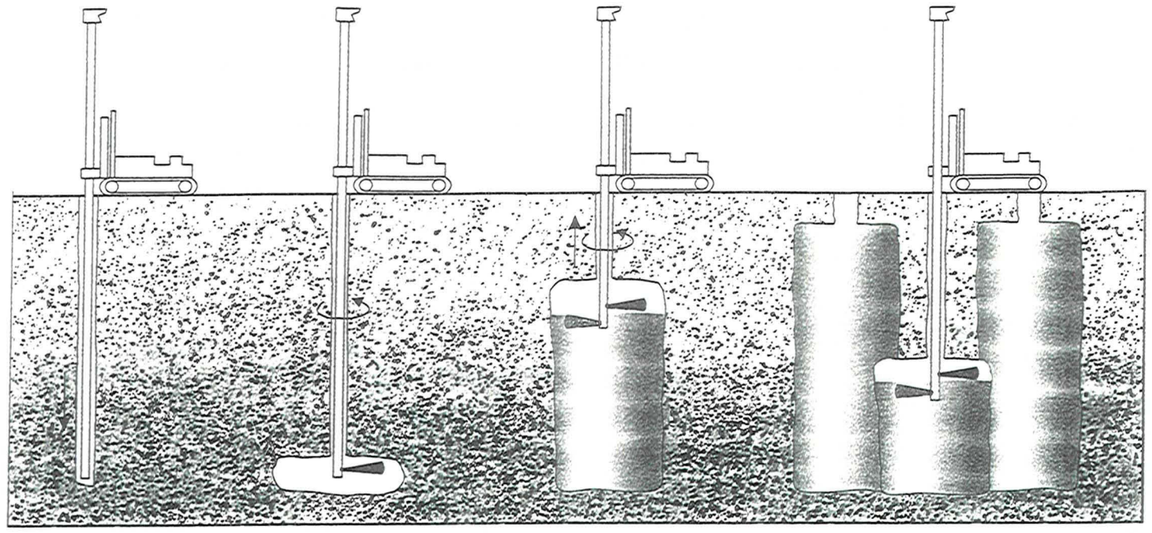


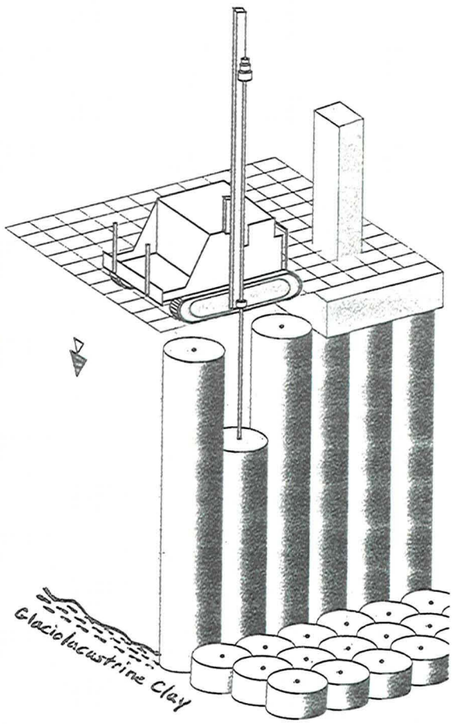
CLIENT/PROJECT						TITLE		
BUFFALO COLOR CORP.			Golder Associates Buffalo, New York			CONCEPTUAL AREA A BANK EROSION CONTROL DESIGN		
DRAWN	CHECKED	REVIEWED	DATE	SCALE	FILE NO.	JOB NO.	DWG NO.	FIGURE
BEC	DJM	DJM	12/9/99	N.T.S.	993-9206	993-9206	BCC046	D-4



Jet Grouting

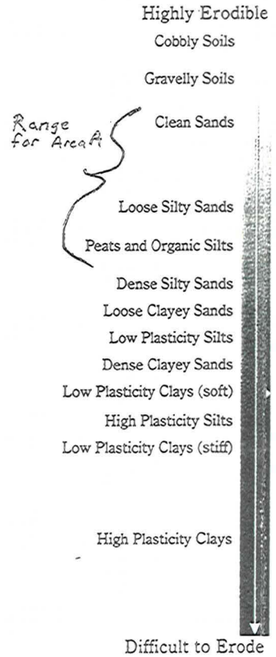
Effective across the widest range of soil types of any grouting technique, jet grouting is a versatile and valuable tool for underpinning, excavation support and groundwater control. As the in situ soil is eroded, it is simultaneously mixed with a cement grout to form low-permeability, solidified Soilcrete[sm] of designed geometry. Jet grouting is particularly suited for use on sensitive structures or where access is limited.

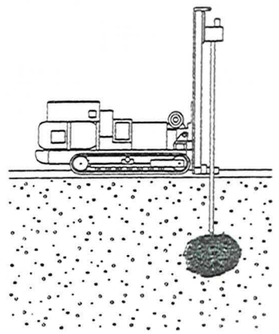




Jet Grouting Procedure

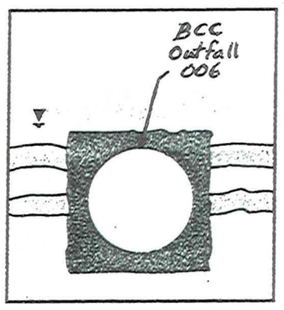
Predrilling or foundation coring may be necessary to access the treatment zone. The drilling rig is positioned and drilling (typ. 6" dia/150mm) is performed using grout or a drilling mud to stabilize the borehole. Since jet grouting is a bottom-up procedure, erosion is initiated at the design depth with high velocity injection of cutting and replacement fluids. This continues with consistent, uniform rotation and lifting to create column geometry, while expelling eroded spoil out of the top of the borehole. Designed integration of adjacent columns creates a Soilcrete mass. Since jet grout equipment operates from above foundation grade, and Soilcrete is constructed in a designed sequence, structural integrity is maintained and safety considerations are simplified. Jet grouting equipment is specially designed to be highly maneuverable and capable of low-headroom interior work as well as restricted-access exterior work.

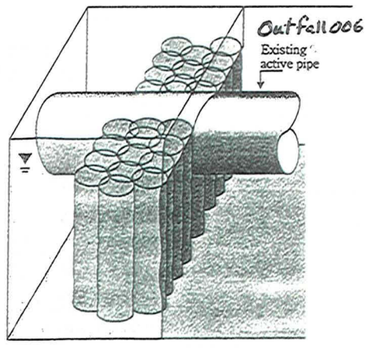




Chemical Grouting

The pressure-injection of very low viscosity chemical grouts into granular soils produces a stabilized mass of sandstone-like material with the strength to support and protect structures and utilities during nearby excavation. Less disruptive and often more economical than conventional open cut excavation, chemical grouting is extensively used in soft ground tunneling to prevent excessive ground loss.





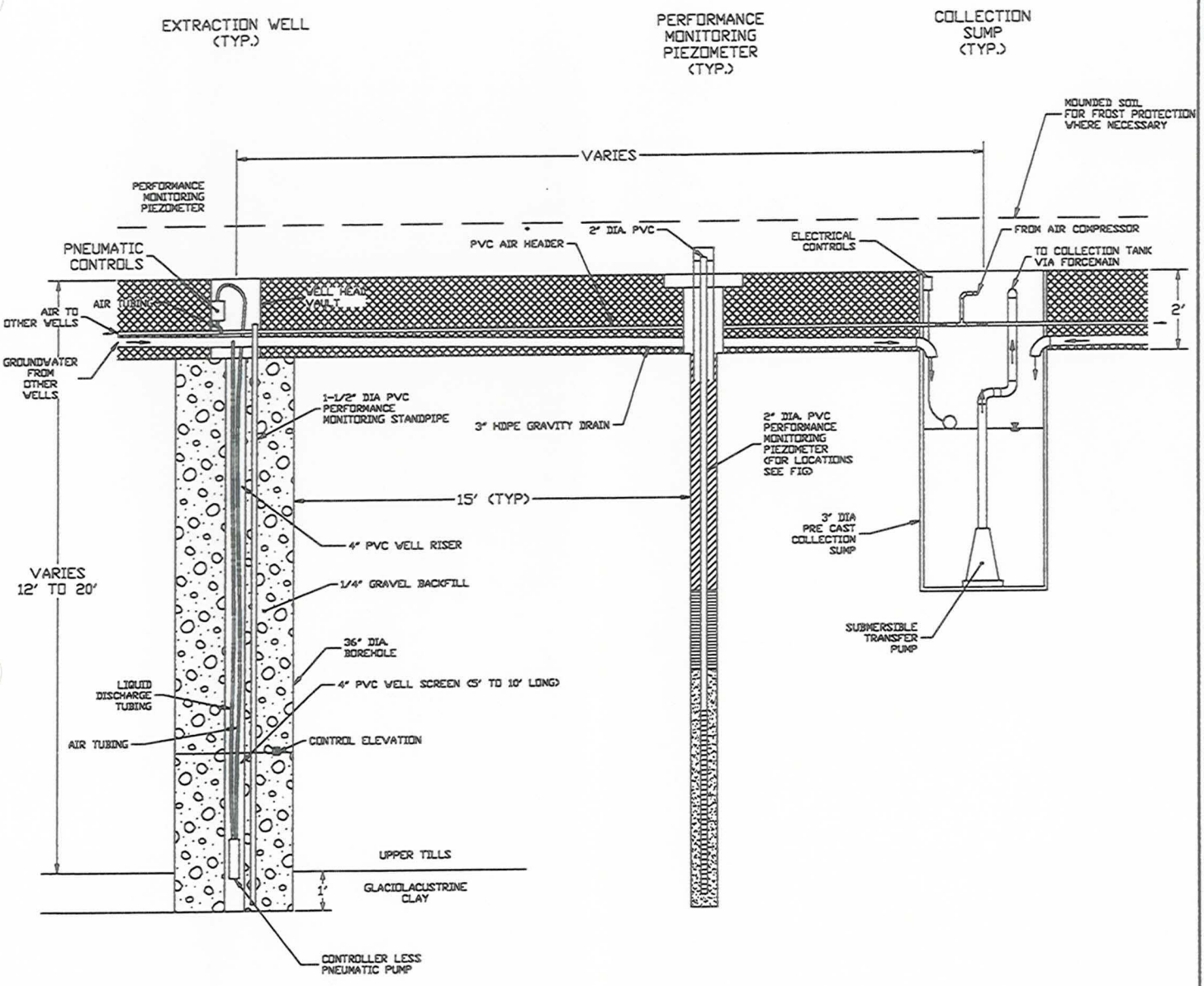
NOTE:
ALL FIGURES AND TECHNIQUE DESCRIPTIONS OBTAINED FROM HAYWARD BAKER INC. PROMOTIONAL BROCHURES.

Golder Associates — Buffalo, New York

CLIENT/PROJECT: buffalo COLOR CORPORATION

TITLE: GROUT BARRIER CONCEPTS- AREA A

DRAWN	LPG	DATE	12/2/99	JOB NO.	993-9206
CHECKED	DCW	SCALE	N.T.S	DWG. NO.	BCC-044
REVIEWED	DJM	FILE NO.	993-9206	FIGURE NO.	D-5



NOTES:

SEE FIG C-3 FOR PROPOSED EXTRACTION WELL LAYOUT.

4' 0 4'

scale feet

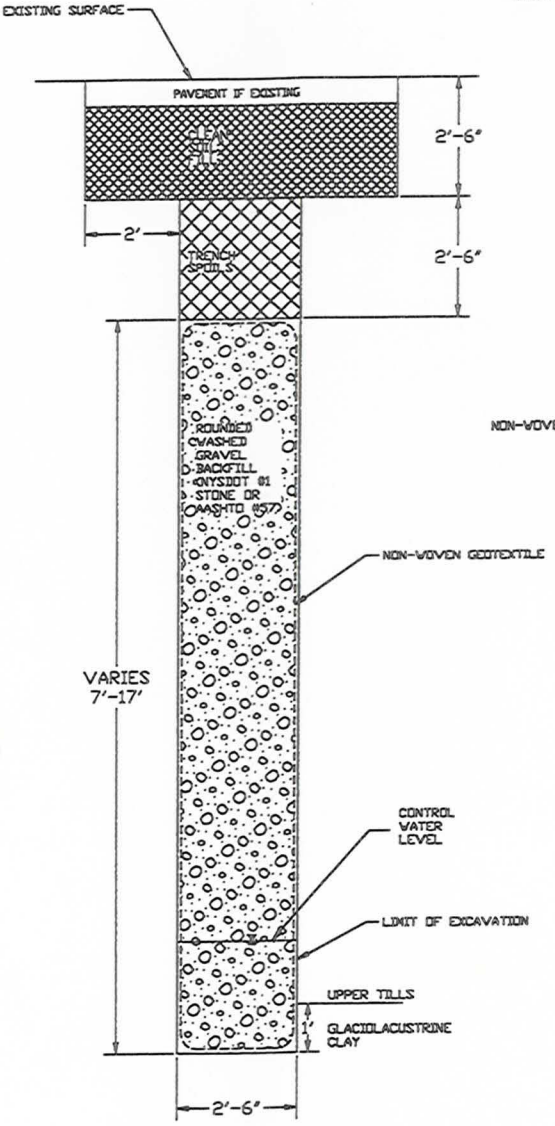
Golder Associates Buffalo, New York

CLIENT/PROJECT buffalo COLOR CORPORATION

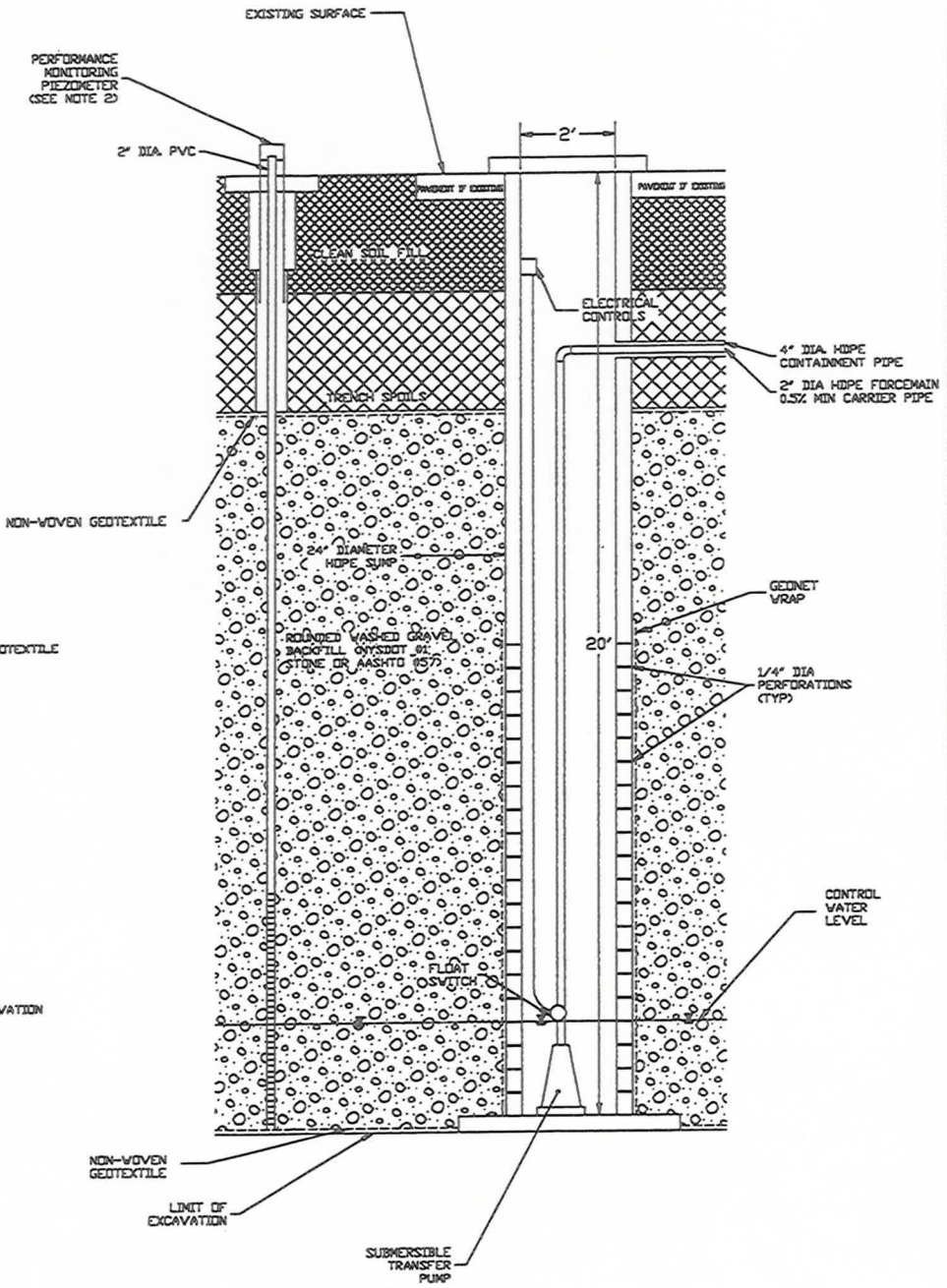
TITLE: CONCEPTUAL DESIGN EXTRACTION WELL SYSTEM CORRECTIVE MEASURES STUDY AREAS B, C, E.

DRAWN	LPG	DATE 11/09/99	JOB NO. 993-9206
CHECKED	DCW	SCALE 1"=4'	DWG. NO. BCC-037
REVIEWED	DJM	FILE NO. 993-9206	PHOTO NO. D-6

X-SECTION OF TRENCH (TYP.)

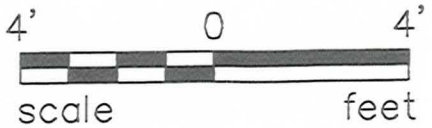


SIDE VIEW OF TRENCH INCLUDING COLLECTION SUMP (TYP.)



NOTES:

1. FOR PLAN LOCATIONS OF TRENCH LAYOUT SEE FIGURE C-5

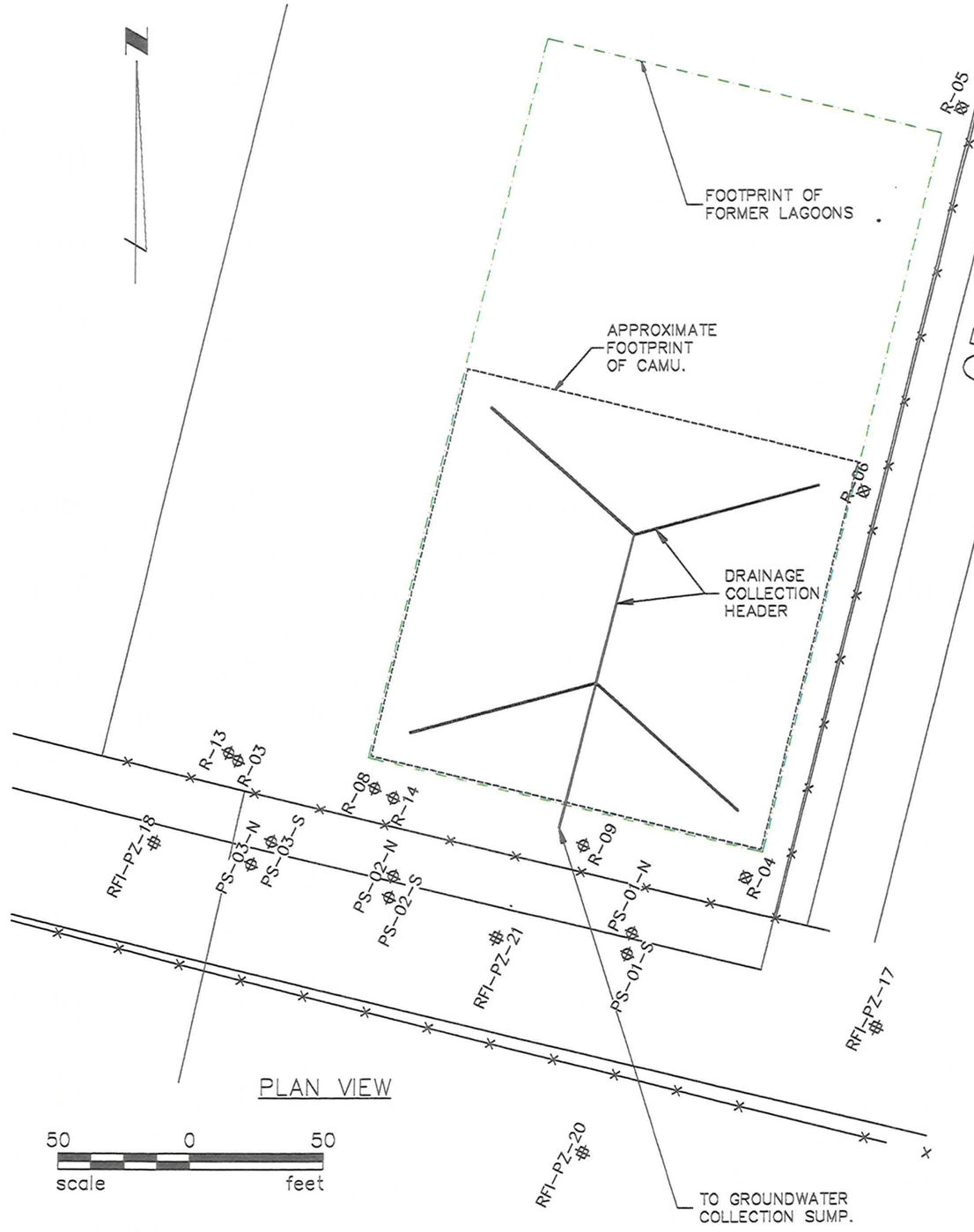


Golder Associates — Buffalo, New York

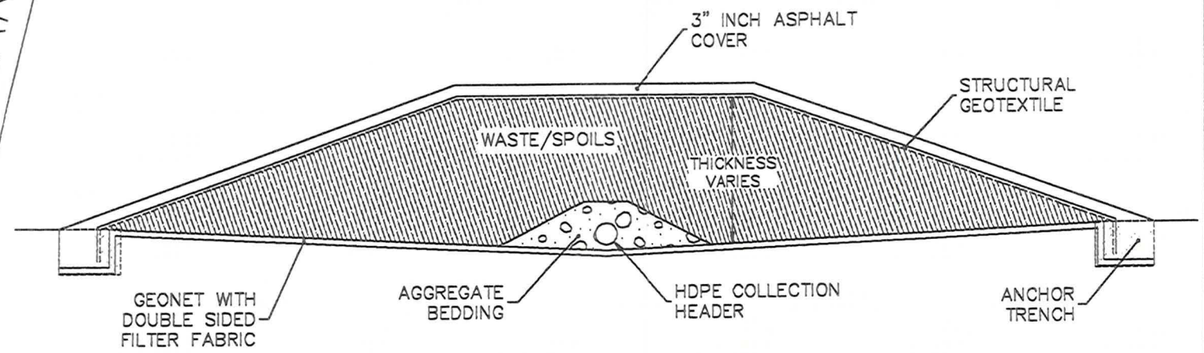
CLIENT/PROJECT: buffalo color corporation

TITLE: CONCEPTUAL DESIGN ENHANCED PERMEABILITY TRENCH CORRECTIVE MEASURES STUDY AREAS B, C, E.

DRAWN	LPG	DATE 11/09/99	JOB NO. 993-9206
CHECKED	DCW	SCALE 1"=4'	DWG. NO. BCC-036
REVIEWED	DJM	FILE NO. 993-9206	FIGURE NO. D-7



PLAN VIEW



CUT VIEW
NTS.

NOTES:

THICKNESS VARIES WITH REMEDIAL OPTION AND FOOTPRINT AREA. A 150' x150' FOOTPRINT WOULD YIELD A RANGE OF AVERAGE THICKNESS OF SPOILS FROM 1.0 FT TO 4.6 FT FOR THE MINIMUM AND MAXIMUM DISPOSAL SCENARIOS, RESPECTIVELY. ADJUSTMENTS FOR BULKING AND COMPACTION NOT INCLUDED.

Golder Associates — Buffalo, New York

CLIENT/PROJECT: buffalo COLOR CORPORATION

TITLE: CONCEPTUAL CORRECTIVE ACTION MANAGEMENT UNIT (CAMU) DESIGN

DRAWN	LPG	DATE	12/1/99	JOB NO.	993-9206
CHECKED	DCW	SCALE	AS SHOWN	DWG. NO.	BCC-043
REVIEWED	DJM	FILE NO.	993-9206	FIGURE NO.	D-8

LEGEND

- PAVED/STRUCTURE OR EXISTING BUILDING
- GRAVEL SURFACE
- SLAB FOUNDATION/ LAGOON CLOSURE CAP
- PROPOSED AREA A RIVER BANK PROTECTION
- GRASSED AREA

RFI-21	RFI MONITORING WELLS/PIEZOMETERS
PS-01	PRE-RFI PIEZOMETERS
R-04	PRE-RFI MONITORING WELLS
PRB-20	RFI BORING
PRB-1M	RFI MULTIPLE DEPTH BORING
	RIVER STILLING WELL
	SURFACE SOIL SAMPLE

NOTES

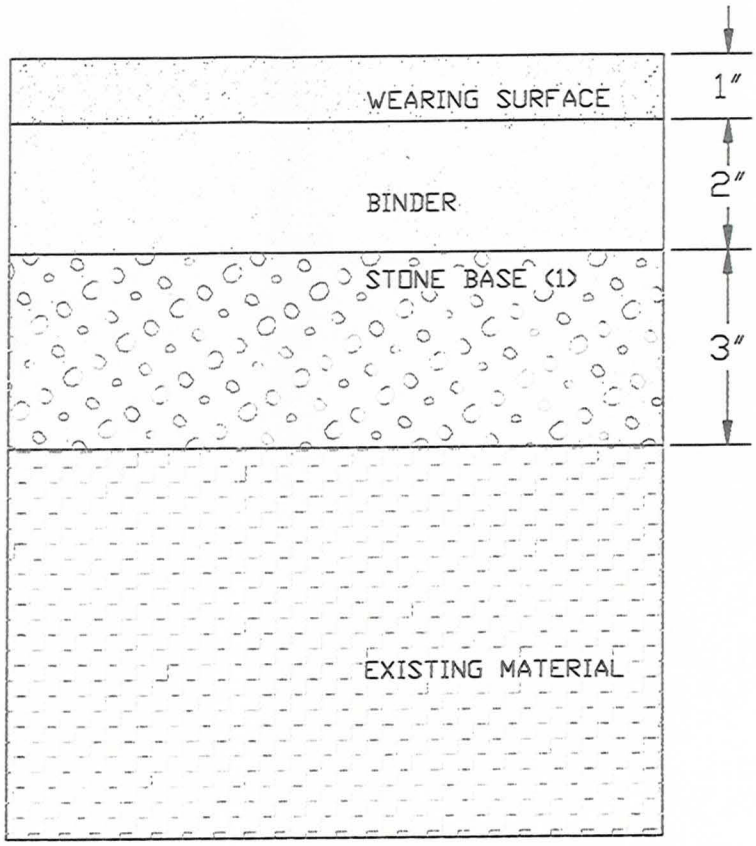
1. RED COLOR INDICATES PROPOSED PAVEMENT SOIL CAPPING AREAS

Golder Associates Buffalo, New York

CLIENT/PROJECT buffalo COLOR CORPORATION

TITLE **CONCEPTUAL LAYOUT AREA A, B, C, E. - ALTERNATIVE 3 PAVEMENT SOIL CAPPING**

DRAWN	LPG	DATE 11/18/99	JOB NO. 993-9206
CHECKED	BCS	SCALE AS SHOWN	DWG. NO. BCC-041
REVIEWED		FILE NO. 993-9206	FIGURE NO. D-9



NOTES:

1. STONE BASE NOT REQUIRED WHEN PAVING OVER EXISTING GRAVEL AREAS.
2. FOR PROPOSED PAVED AREAS SEE FIGURE D-9.

Golder Associates — Buffalo, New York

owner/project: buffalo COLOR CORPORATION

TITLE: CONCEPTUAL PAVEMENT DESIGN CORRECTIVE MEASURES STUDY AREAS A, B, C, E

DRAWN	LPG	DATE 11/08/99	JOB NO. 993-9206
CHECKED	DCW	SCALE NTS	DWG. NO. BCC-035
REVIEWED	DJM	FILE NO. 993-9206	FIGURE NO. D-10

ALLIED SIGNAL
Buffalo Color Plant, Buffalo NY

OPERATIONAL AND MAINTENANCE MANUAL

prepared by

CSK TECHNICAL, Inc.
153 Wales Avenue
P.O. Box 784
Tonawanda, NY 14150

January 2, 1998

Version I

BUFFALO COLOR PROCESS DESCRIPTION:

Influent ground water from the Buffalo Color Area "D" site is delivered by others to the inlet of the treatment system. The contaminants in this water include heavy metals (arsenic, cadmium, chromium, copper, iron, lead, mercury), oils and various volatile and semi-volatile organics. Removal of these contaminants to below discharge levels will be accomplished with the CSK treatment system. Unit processes include an oil/water separator, multiple treatment unit (MTU), a multi-media vessel and dual carbon vessels. The MTU consists of pH adjustment, chemical addition, flocculation, and clarification.

Brief Overview of the Treatment Process:

Influent ground water will be pumped from ground water extraction wells by Allied Signal to the CSK system and will collect in the oil/water separator (OWS-10). A bypass of the oil/water separator is provided to run the influent directly to the equalization tank. This bypass would be used if no oils are present. Heavy oils, are collected in a cone bottom, while light oils, greases and solvents are skimmed off the top. Both of these are collected in waste storage drums. Oil free water next is collected in a 2,000 gallon equalization tank (T-10). Two 12.5 gallon per minute centrifugal pumps (P-10 & P-11) transfer the influent to the MTU. In the MTU a coagulant, sodium hydroxide, and a flocculation polymer are added to precipitate out the heavy metals present. These metals will form a solid sludge that collects in the bottom of the clarifier (CL-20). Metals free water will collect in a clearwell (T-20) at the end of the MTU unit. Two 12.5 gallon per minute centrifugal pumps (P-20 & P-21) will pump from the clearwell through a multi-media vessel and two carbon adsorption units. The multi-media vessel will filter out any particulate larger than 10 microns. The carbon adsorption units are piped in series. They will remove any organics present. After the carbon units, the pH of the water is measured, and if the pH is between 6-10, then the treated water will be discharged to the Buffalo River.

The sludge collected in the clarifier will be slowly drawn to the bottom and transferred by a diaphragm pump (P-22) to sludge thickening tank (T-90). After a time period, the sludge will be fed into a filter press for de-watering. The sludge collected in the filter press will be trucked off site for disposal. The water separated from the sludge will be recycled back to the equalization tank for retreatment.

PROJECT NAME: BUFFALO COLOR AREA "D"
CONTRACTOR'S NAME: CSK TECHNICAL, INC.
DATE:
ITEM:
SPECIFICATIONS:
SECTION:
PAGE NO.:
PARA. NO.:
DRAWING NO.:
LOCATION:
SUBMITAL NO.:
APPROVED BY:

FILTER PRESS P-90
FROM TREATED WATER DISCHARGE SV-60
BACKWASH WATER FROM F-30, CA-40, CA-41

EQUALIZATION TANK
2,000 GALLONS NOMINAL
T-10

P-10
EQUALIZATION TANK PUMPS

P-11

P-29
DE-EMULSIFICATION FEED METERING PUMP

D-29
DE-EMULSIFICATION FEED 55 GALLON DRUM

DE-EMULSIFICATION SYSTEM

WELL PUMP RUN PERMISSIVE (DRY CONTACT) — OR-X
WELL PUMP ON INDICATION (DRY CONTACT) — OR-Y
BY CUSTOMER

FROM EXTRACTION WELLS

FROM SLUDGE THICKENER T-90

P-130
S-130

DE-EMULSIFICATION MIX TANK
250 GALLONS NOMINAL
T-15

OIL/WATER SEPARATOR
OWS-10

BUILDING STORAGE SHED

D-10A
LNAPL PRODUCT STORAGE DRUM
55 GALLON DRUM

D-10B
DNAPL PRODUCT STORAGE DRUM
55 GALLON DRUM

COAGULENT MIX TANK
250 GALLONS NOMINAL
T-16

CAUSTIC MIX TANK
500 GALLONS NOMINAL
T-17

POLYMER MIX TANK
25 GALLONS NOMINAL
T-18

FLOCULATION TANK
150 GALLONS NOMINAL
T-19

D-27
COAGULANT 55 GALLON DRUM

P-27
COAGULANT FEED METERING PUMP

COAGULANT FEED SYSTEM

CC-27

T-27
COAGULANT FEED TANK
1000 GALLONS NOMINAL

POTABLE WATER MAKE-UP

CC-26

D-26
CAUSTIC 55 GALLON DRUM

P-26
CAUSTIC FEED METERING PUMP

T-26
CAUSTIC FEED TANK
1000 GALLONS NOMINAL

CAUSTIC FEED SYSTEM

P-30
POLYMER FEED METERING PUMP

D-30
POLYMER FEED 55 GALLON DRUM

POLYMER FEED SYSTEM

P-21

P-20

CLEAR WELL PUMPS

CLEAR WELL
250 GALLONS NOMINAL
T-20

CLARIFIER
W/ 25 GALLON SLUDGE HOLDING TANK
CL-20

P-22
20 gpm
CLARIFIER SLUDGE PUMP

TO MULTI-MEDIA VESSEL F-30
TO SLUDGE THICKENER T-90
FROM AIR COMPRESSOR AC-70

NOTE:
SEE DRAWING P-0 FOR SYMBOL DESCRIPTIONS.

CONTRACT NO. 32207

REVISION NUMBER	1	2	3	4	5
DESIGN	10/11/96	10/30/96	1/16/97	3/13/97	9/10/97
ENGINEERING	10/11/96	10/30/96	1/16/97	3/13/97	9/10/97
DESCRIPTION:					

JOB NUMBER: 106114
CONTRACT NUMBER:
INTERNAL VERSION ISSUE DATES

DRAWING CONFIDENTIAL:
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DESIGNER	JH	9/24/96
CHECKED BY:	JH	9/30/96
PROJECT ENGINEER APPROVED		
PROJECT MANAGER APPROVED		

CSK TECHNICAL, INC.
143 WALKER AVE. P.O. BOX 789
TONAWANDA, NEW YORK 14150
PHONE: (716) 693-2255

TITLE: ALLIED SIGNAL INC.
BUFFALO COLOR AREA "D"
BUFFALO, NEW YORK
WATER TREATMENT SYSTEM
P & ID

SIZE: D | DWG NO.: P-1 | REV #: 05
SCALE: NTS | CSK CAD FILE: 114P0104

PLOT DATE:

APPENDIX E

BUFFALO COLOR CORPORATION
BSA DISCHARGE PERMIT, CORRESPONDENCE, AND
ESTIMATED DISCHARGE CONCENTRATIONS

AUTHORIZATION TO DISCHARGE UNDER THE BUFFALO POLLUTANT DISCHARGE ELIMINATION SYSTEM

PERMIT NO. 99-05-BU021

In accordance with the provisions of the Federal Water Pollution Control Act, as amended, and the Sewer Regulations of the Buffalo Sewer Authority, authorization is hereby granted to:

BUFFALO COLOR CORPORATION

to discharge wastewater from a facility located at:

100 LEE STREET, BUFFALO NEW YORK 14210

to the Buffalo Municipal Sewer System.

Issuance of this permit is based upon a permit application filed on **November 20, 1998** and analytical data. This permit is granted in accordance with discharge limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

Effective this 1st day of June, 1999

To Expire the 31th day of May, 2002

General Manager

Signed this 1st **day of** June, **19** 99

PART I: SPECIFIC CONDITIONS

A. DISCHARGE LIMITATIONS & MONITORING REQUIREMENTS

During the period beginning the effective date of this Permit and lasting until the expiration date, discharge from the permitted facility outfall (see attached map) shall be limited and monitored by the permittee as specified below:

Sample Point	Parameter	Discharge Limitations Daily Maximum	M.A.I.D.* (mg/L)	Sampling Requirements Type	Frequency
002	pH[1]	5.0 - 12.0 SU		Probe	Continuous
	Total Flow	500,000 gallons		Flow Meter[2]	Continuous
	Physical Observations[3]	N/A		Grab	Every 15 minutes
	Amenable Cyanide	19.91 lbs.	6.2	Grab [7]	Monthly
	BOD_5	250 mg/L[4]		Composite[5]	Weekly
	Total Suspended Solids	250 mg/L[4]		Composite	Monthly
	Total Phosphate	15.35 mg/L[4]		Composite	Monthly
	Total Phenol [6]	12.84 lbs.	20.0	Composite	Monthly
	Aniline	1150 lbs.		Composite	Monthly
	N,N'-Dimethylaniline	1150 lbs.		Composite	Monthly
	N-Methylaniline	750 lbs.		Composite	Monthly
	N,N'-Diethylaniline	500 lbs.		Composite	Monthly
	N-Ethylaniline	500 lbs.		Composite	Monthly
	Total Nickel	8.99 lbs.	14.0	Composite	Monthly
	Total Copper	5.14 lbs.	16.0	Composite	Quarterly
	Total Chromium	6.42 lbs.	40.0	Composite	Quarterly
	Purgeables-EPA Test Methods 601 & 602	No Limit		Grab[7]	Annual
	Base/Neutrals & Acid Extractable-EPA Test Method 625 [8]	No Limit		Composite	Annual
	Total PCB's - EPA Test Method 608	0.001 lbs.	.002	Composite	Annual

The sampling period for all parameters is a minimum of a one 24 hour day
* M.A.I.D. - Maximum Allowable Instantaneous Discharge - Slug Limit.
SEE PAGE SIX (6) FOR EXPLANATION OF SPECIFIC REQUIREMENTS.

PART I: SPECIFIC CONDITIONS

A. DISCHARGE LIMITATIONS & MONITORING REQUIREMENTS (continued)

The following mass limits apply to the combined discharge of sample points 003 & 004 if and only if, the loading of contaminant(s) at sample location 002 cannot be determined to be in compliance due to elevated limits of detection in the analytical method(s) for any parameters.

The daily maximum and monthly average discharge limitations for the following parameters are the combined total mass based on the average flow of 257,000 gallons/day for SP003 and 123,000 gallons/day for SP004 and the concentrations limits as stated in 40 CFR Part 414.111:

Sample Point	Parameter	Discharge Limitations					Sampling Requirements	
		Daily Max.		Mo. Avg.		M.A.I.D.	Type	Frequency
		ug/L	Lbs.	ug/L	Lbs.	mg/L		
002	1,1-Dichloroethane	59	0.19	22	0.07		Grab	Quarterly
	1,1-Dichloroethylene	60	0.19	22	0.07		Grab	Quarterly
	1,1,1-Trichloroethane	59	0.19	22	0.07		Grab	Quarterly
	1,1,2-Trichloroethane	127	0.40	32	0.10		Grab	Quarterly
	1,2-Dichlorobenzene	794	2.52	196	0.62		Grab	Quarterly
	1,2-Dichloroethane	574	1.82	180	0.57		Grab	Quarterly
	1,2-Dichloropropane	794	2.52	196	0.62		Grab	Quarterly
	1,2-Trans-Dichloroethylene	66	0.21	180	0.08		Grab	Quarterly
	1,2,4-Trichlorobenzene	10	0.032	10	0.032	0.8	Composite	Quarterly
	1,3-Dichlorobenzene	380	1.2	142	0.45		Grab	Quarterly
	1,3-Dichloropropylene	794	2.52	196	0.62		Grab	Quarterly
	1,4-Dichlorobenzene	380	1.2	142	0.45		Grab	Quarterly
	2-Nitrophenol	231	0.73	65	0.21		Composite	Quarterly
	4-Nitrophenol	576	1.83	162	0.51		Composite	Quarterly
	4,6-Dinitro-o-cresol	277	0.88	78	0.25		Composite	Quarterly
	Acenaphthene	47	0.15	19	0.06		Composite	Quarterly
	Anthracene	47	0.15	19	0.06		Composite	Quarterly
	Benzene	134	0.42	57	0.18		Grab	Quarterly
	Bis (2-ethylhexyl)phthalate	258	0.82	95	0.30		Composite	Quarterly
	Carbon Tetrachloride	380	1.2	142	0.45		Grab	Quarterly
	Chlorobenzene	380	1.2	142	0.45		Grab	Quarterly
	Chloroethane	295	0.93	110	0.35		Grab	Quarterly
	Chloroform	325	1.03	111	0.35	8.5	Grab	Quarterly
	Di-ethylphthalate	113	0.36	46	0.15		Composite	Quarterly
	Di-methylphthalate	47	0.15	19	0.06		Composite	Quarterly
	Di-n-butylphthalate	43	0.14	20	0.06		Composite	Quarterly
	Ethylbenzene	380	1 2	142	0.45		Grab	Quarterly
	Fluoranthene	54	0.17	22	0.07	0.1	Composite	Quarterly

PART I: SPECIFIC CONDITIONS

A. DISCHARGE LIMITATIONS & MONITORING REQUIREMENTS (continued)

Sample Point	Parameter	Discharge Limitations Daily Max. ug/L	Daily Max. Lbs.	Mo. Avg. ug/L	Mo. Avg. Lbs.	M.A.L.D. mg/L	Sampling Type	Requirements Frequency
002	Fluorene	47	0.15	19	0.06		Composite	Quarterly
	Hexachlorobenzene	794	2.52	196	0.62		Composite	Quarterly
	Hexachlorobutadiene	380	1.2	142	0.45		Composite	Quarterly
	Hexachloroethane	794	2.52	196	0.62		Composite	Quarterly
	Methyl Chloride	295	0.93	110	0.35		Grab	Quarterly
	Methylene Chloride	170	0.54	36	0.11		Grab	Quarterly
	Naphthalene	47	0.15	19	0.06		Composite	Quarterly
	Nitrobenzene	3201	10.14	2237	7.09		Composite	Quarterly
	Phenanthrene	47	0.15	19	0.06		Composite	Quarterly
	Pyrene	48	0.15	20	0.06	0.1	Composite	Quarterly
	Tetrachloroethylene	164	0.52	52	0.16		Grab	Quarterly
	Toluene	74	0.23	28	0.09		Grab	Quarterly
	Trichloroethylene	69	0.22	26	0.08		Grab	Quarterly
	Vinyl Chloride	172	0.55	97	0.31		Grab	Quarterly
	Total Lead	690	2.19	320	1.01	65.0	Composite	Quarterly
	Total Zinc	2610	8.27	1050	3.33	25.0	Composite	Quarterly
003& 004	Total Flow	No Limit					Flow meter [9]	Continuous

The sampling period for all parameters is a minimum of a one 24 hour day.

SEE PAGE SIX (6) FOR AN EXPLANATION OF SPECIFIC REQUIREMENTS.

PART I: SPECIFIC CONDITIONS

B. DISCHARGE MONITORING REPORTING REQUIREMENTS

During the period beginning the effective date of this permit and lasting until the expiration date, discharge monitoring results shall be summarized and reported by the permittee on the days specified below:

Sample Point	Parameter	Reporting Requirements	
		Initial Report	**Subsequent Reports**
002, 003 & 004	All Analytes* and the Cyanide Treatment Record - except analytes tested annually	July 25, 1999	Every July 25, October 25 January 25, April 25
	EPA Method 601, 602, 608 and 625	July 25, 1999	July 25, 2000, July 25, 2001.

* pH results of composites only - strip chart reading of SP002 shall be available upon request. These records must be maintained for a minimum of three (3) years, in accordance with 40 CFR Parts 403.12(o) and 403.14(c).

PART I. SPECIFIC CONDITIONS

C. SPECIAL REQUIREMENTS FOR PART 1 A.

(1) The pH meter must be calibrated and maintained in accordance with the manufacturer's specifications. The calibrations and the person(s) responsible for it must be recorded in a bound logbook. This logbook must be available for BSA inspection at all times.

(2) All flow meters must be calibrated and certified by a certified manufacturer's representative at least once per year. This report must be submitted with the annual report. All flow meters must be serviced and maintained in accordance with the manufacturer's specifications.
The BSA must be notified of any malfunctions which lasts for more than 24 hours within three (3) days of the malfunction. If a flow meter, especially at SP 002, remains out of service for more than five (5) consecutive days, the permittee must install a temporary meter until such time as the defective meter is repaired or replaced. The BSA at its option, may require a written report on any malfunctions

(3) All grabs must be saved three days and available for BSA inspection. Four consecutive 15 minute grabs may be composited into one sample bottle.

(4) Surchargeable limit only.

(5) All composites shall be flow proportioned.

(6) EPA Test Method 604.

(7) Four grab samples must be properly taken and preserved over an equally spaced time period during a normal discharge day. The four grab samples must be flow proportionally composited at a New York State Department of Health certified lab.

(8) All samples collected for the base neutral and acid extractable EPA analytical test procedures must go through a special cleanup to prevent aniline and aniline derivative interference of the analytical method.

(9) When sample points 003 & 004 have to be monitored instead of sample point 002, the daily flows for each discharge must be recorded and submitted with the report.

PART I: SPECIFIC CONDITIONS

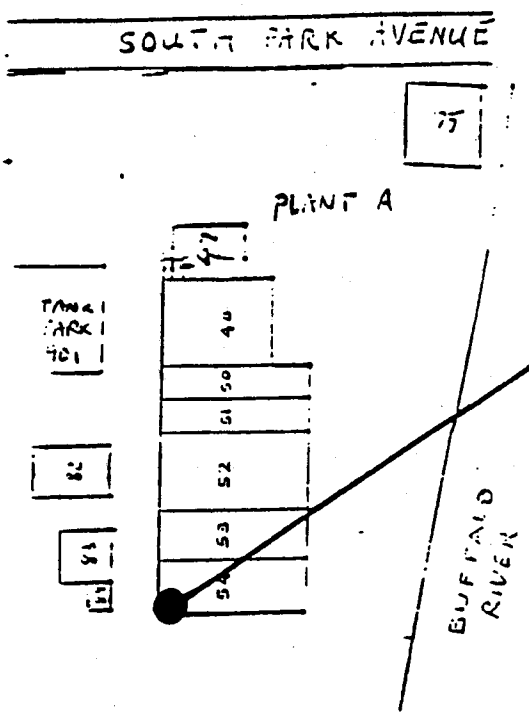
D. SPECIAL REQUIREMENTS FOR QUARTERLY MONITORING REPORTS OF CYANIDE TREATMENT FOR THE FISHED SALT WASTESTREAM.

The following format must be used to document the sodium hypochlorite addition to the fished salt wastestream and submitted with the quarterly monitoring reports:

QUARTERLY CYANIDE TREATMENT RECORD

		1st Month	2nd Month	3rd Month	
(1)	Days In Month				Days
(2)	Days Operating				Days
(3)	Days Feeding Hypo				Days
(4)	Time Efficiency				(%)
(5)	Hypo Volume added				Gallons
(6)	Hypo Weight added				Lbs NaOC1
(7)	Total Cyanide Equivalent (60%)				Lbs TCN
(8)	Total Cyanide Equivalent Rate				Lbs/Day

SAMPLING LOCATIONS



SAMPLING LOCATION 003

Indoors at the South-West corner of Building 54

Grabs: 2nd floor VT-4 Outlet pH probe chamber

Continuous: 3rd floor VT-4 top Tygon sampling tube

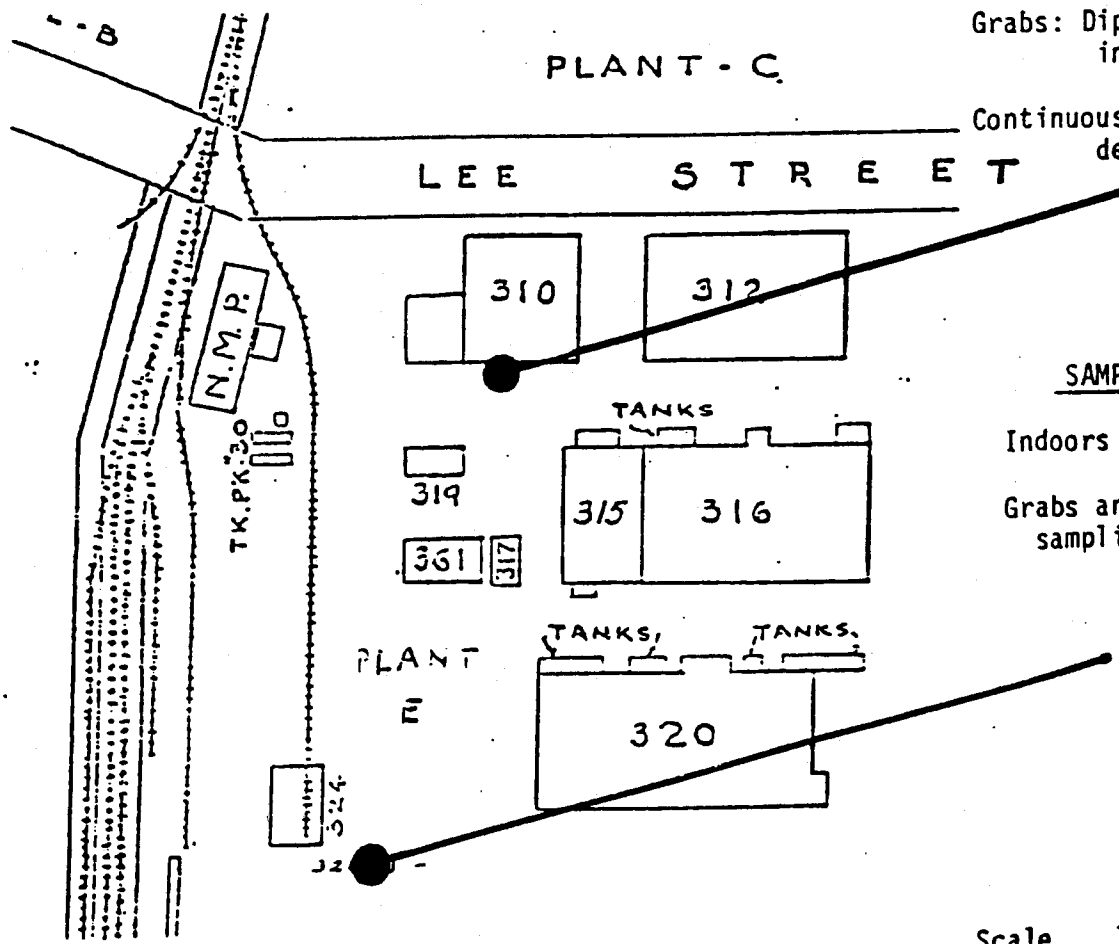
Sampling personnel must be accompanied by BCC supervision.

SAMPLING LOCATION 004

At Separator East of Bldg. 54C

Grabs: Dipped through opening in decking

Continuous: Sampler set up on decking



SAMPLING LOCATION 002

Indoors at Building 326 shed

Grabs and Continuous: at sampling trough

Scale 150 Feet

BUFFALO POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PART II: GENERAL CONDITIONS

A. MONITORING AND REPORTING

1. Local Limits

Except as otherwise specified in this permit, the permit holder shall comply with all specific prohibitions, limits on pollutants or pollutant parameters set forth in the Buffalo Sewer Authority Sewer Use Regulations, as amended from time to time, and such prohibitions, limits and parameters shall be deemed pretreatment standards for purposes for the Clean Water Act.

2. Definitions

Definitions of terms contained in this permit are as defined in the Buffalo Sewer Authority Sewer Use Regulations.

3. Discharge Sampling Analysis

All Wastewater discharge samples and analyses and flow measurements shall be representative of the volume and character of the monitored discharge. Methods employed for flow measurements and sample collections and analyses shall conform to the Buffalo Sewer Authority "Sampling Measurement and Analytical Guidelines Sheet".

4. Recording of Results

For each measurement or sample taken pursuant to the requirements of the permit, the permittee shall record the information as required in the "Sampling Measurement and Analytical Guidelines Sheet".

5. Additional Monitoring by Permittee

If the permittee monitors any pollutants at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified in 40CFR136 the results of such monitoring shall be included in the calculation and reporting of values required under Part I,B. Such increased frequency shall also be indicated.

6. Reporting

All reports prepared in accordance with this Permit shall be submitted to:

Industrial Waste Section
Buffalo Sewer Authority Treatment Plant
90 West Ferry Street
Buffalo, New York 14213

All self monitoring reports shall be prepared in accordance with the BSA "Sampling Measurement and Analytical Guidelines Sheet". These reporting requirements shall not relieve the permittee of any other reports which may be required by the N.Y.S.D.E.C. or the U.S.E.P.A.

B. PERMITTEE REQUIREMENTS

1. Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit and with the information contained in the BPDES permit application on which basis this permit is granted. In the event of any facility expansions, production increases, process modifications or the installation, modification or repair of any pretreatment equipment which may result in new, different or increased discharges of pollutants, a new BPDES Permit application must be submitted prior to any change. Following receipt of an amended application, the BSA may modify this permit to specify and limit any pollutants not previously limited. In the event that the proposed change will be covered under an applicable Categorical Standard, a Baseline Monitoring Report must be submitted at least ninety (90) days prior to any discharge.

2. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed, calibration and maintenance of instrumentation, and recordings from continuous monitoring instrumentation shall be retained at this facility for a minimum of three (3) years, or longer if requested by the General Manager.

3. Notification of Slug, Accidental Discharge or Spill

In the event that a slug, accidental discharge or any spill occurs at the facility for which this permit is issued, it is the responsibility of the permittee to immediately notify the B.S.A. Treatment Plant at 883-1820 or 853-2459 of the quantity and character of such discharge. If requested by the B.S.A., within five (5) days following all such discharges, the permittee shall submit a report describing the character and duration of the discharge, the cause of the discharge, and measures taken or that will be taken to prevent a recurrence of such discharge.

4. Noncompliance Notification

If, for any reason, the permittee does not comply with or will be unable to comply with any discharge limitation specified in this permit, the permittee or their assigns must verbally notify the Industrial Waste Section at 883-1820 within twenty-four (24) hours

of becoming aware of the violation. The permittee shall provide the Industrial Waste Section with the following information, in writing, within five (5) days of becoming aware of such condition:

a. a description of the discharge and cause of noncompliance and;

b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

5. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to the Buffalo Sewerage System resulting from noncompliance with any discharge limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

6. Waste Residuals

Solids, sludges, filter backwash or other pollutants removed in the course of treatment or control of wastewaters and/or the treatment of intake waters, shall be disposed of in a manner such as to prevent any pollutant from such materials from entering the Buffalo Sewer System.

7. Power Failures

In order to maintain compliance with the discharge limitations and prohibitions of this permit, the permittee shall provide an alternative power source sufficient to operate the wastewater control facilities; or, if such alternative power source is not provided the permittee shall halt, reduce or otherwise control production and/or controlled discharges upon the loss of power to the wastewater control facilities.

8. Treatment Upsets

a. Any industrial user which experiences an upset in operations that places it in a temporary state of noncompliance, which is not the result of operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation, shall inform the Industrial Waste Section immediately upon becoming aware of the upset. Where such information is given verbally, a written report shall be filed by the user within five (5) days. The report shall contain:

(i) A description of the upset, its cause(s) and impact on the discharger's compliance status.

(ii) The duration of noncompliance, including exact dates and times of noncompliance, and if the non-compliance is continuing, the time by which compliance is reasonably expected to be restored

(iii) All steps taken or planned to reduce, eliminate, and prevent recurrence of such an upset.

b. An industrial user which complies with the notification provisions of this Section in a timely manner shall have an affirmative defense to any enforcement action brought by the Industrial Waste Section for any noncompliance of the limits in this permit, which arises out of violations attributable to and alleged to have occurred during the period of the documented and verified upset.

9. Treatment Bypasses

a. A bypass of the treatment system is prohibited unless the following conditions are met:

(i) The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; or

(ii) There was no feasible alternative to the bypass, including the use of auxiliary treatment or retention of the wastewater; and

(iii) The industrial user properly notified the Industrial Waste Section as described in paragraph b. below.

b. Industrial users must provide immediate notice to the Industrial Waste Section upon discovery of an unanticipated bypass. If necessary, the Industrial Waste Section may require the industrial user to submit a written report explaining the cause(s), nature, and duration of the bypass, and the steps being taken to prevent it's recurrence.

c. An industrial user may allow a bypass to occur which does not cause pretreatment standards or requirements to be violated, but only if it is for essential maintenance to ensure efficient operation of the treatment system. Industrial users anticipating a bypass must submit notice to the Industrial Waste Section at least ten (10) days in advance. The Industrial Waste Section may only approve the anticipated bypass if the circumstances satisfy those set forth in paragraph a. above.

C. PERMITTEE RESPONSIBILITIES

1. Permit Availability

The originally signed permit must be available upon request at all times for review at the address stated on the first page of this permit.

2. Inspections

The permittee shall allow the General Manager of the Buffalo Sewer Authority and/or his authorized representatives, upon the presentation of credentials and during normal working hours or at any other reasonable times, to have access to and copy any records required in this permit; and to sample any discharge of pollutants.

3. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities for which this permit has been issued the permit shall become null and void. The succeeding owner shall submit a completed Buffalo Sewer Authority permit application prior to discharge to the sewer system.

D. PERMITTEE LIABILITIES

1. Permit Modification

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to the following:

a. Violation of any terms or conditions of this permit,

b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts,

c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

2. Imminent Danger

In the event there exists an imminent danger to health or property, the permitter reserves the right to take immediate action to halt the permitted discharge to the sewerage works.

3. Civil and Criminal Liability

Nothing in this permit shall relieve the permittee from any requirements, liabilities, or penalties under provisions of the "Sewer Regulations of the Buffalo Sewer Authority" or any Federal, State and/or local laws or regulations.

E. NATIONAL PRETREATMENT STANDARDS

If a pretreatment standard or prohibition (including any Schedule of Compliance specified in such pretreatment standard or prohibition) is established under Section 307 (b) of the Act for a pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with such pretreatment standard or prohibition.

F. PLANT CLOSURE

In the event of plant closure, the permittee is required to notify the Industrial Waste Section or in writing as soon as an anticipated closure date is determined, but in no case later than five days of the actual closure.

G. CONFIDENTIALITY

Except for data determined to be confidential under Section 308 of the Act, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Buffalo Sewer Authority. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Act.

H. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

buffalo
COLOR CORPORATION
p.o. box 7027 / buffalo, new york 14240-7027
716-827-4500

GOLDER ASSOCIATES
REC'D | PN
FN
CC | ROUTE
DEC 8 1999
BUFFALO, NY

December 3, 1999

Mr. James Caruso
Buffalo Sewer Authority
90 West Ferry Street
Buffalo, NY 14213-1799

Dear Mr. Caruso,

This is to confirm our telephone conversation on November 12. As part of its Corrective Measures Study (CMS) now nearing completion, Buffalo Color Corporation is searching for cost-effective means to remediate environmental impact related to migration of groundwater. Preliminary results from modeling under various scenarios have indicated that, while groundwater from Areas B, C, and E is not migrating to the Buffalo River, a series of extraction wells placed roughly parallel to the bank could completely intercept riverward migration from Area A while generating an average pumped volume of 16-48 gallons per minute.

As we discussed, Buffalo Color is seeking agreement from the BSA that the next revision of its BPDES Permit (No. 99-05-BU021 expiring May 31, 2002) include provisions for the discharge of extracted groundwater into its process waste sewer in Area A. From your comments, Buffalo Color understands that any such arrangement is subject to the following requirements:

(1) That NYSDEC grant prior approval. It is understood that this proposal will be discussed with the state and their consent in principle would be obtained.

(2) That a continuous flow meter with an integrator would be constructed in the extracted groundwater sewer line such that the additional flow to the BSA could be measured, billed, and included in the calculation of contaminant loadings.

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(3) That the discharged groundwater be monitored (at tentative new sampling location S/L 005) for those contaminants regulated under 40 CFR 414 at the same times and frequencies as the total discharge (at S/L 002).

(4) That the discharged groundwater also be monitored for any additional contaminants regulated under the BSA Sewer Ordinance at the same times and frequencies as the total discharge.

(5) That the *allowable* loading discharged to the BSA at S/L 002 for each of the contaminants regulated under 40 CFR 414 be calculated so as to prevent the groundwater from acting as dilution water - by multiplying the concentration limits in the federal rule times the sum of the average flows at processing area sampling locations S/L 003 and S/L 004 less the average flow from the groundwater S/L 005.

Groundwater---(S/L 005)---\
Indigo Process W.Water-----\---(S/L 003)----------\
Building 312 W.Water----------(S/L 004)---\
Power, Other Services W.Water----------\---(S/L 002)---BSA

(6) That the *allowable* loading discharged to the BSA at S/L 002 for each of any other contaminants regulated under the BSA Sewer Ordinance be determined by means of the Sewer Authority's formal mass allocation procedure.

(7) That the *reportable* loading discharged to the BSA for each of the contaminants regulated under either 40 CFR 414 be calculated by subtracting the groundwater component (concentration times measured flow at S/L 005) from the gross loading (concentration times measured combined flows at S/L 002).

(8) That discharge of extracted groundwater into Buffalo Color's process waste sewer be halted during events of combined sewer overflow (CSO) into the Buffalo River at the BSA outfall at the foot of Babcock Street.

Attached are tables showing the results of groundwater monitoring in Area A collected as part of the RCRA Facility Investigation (RFI) together with calculations converting them into expected mass loadings to the BSA for two cases:

* No barrier to Buffalo River in-migration yielding an average pumped flow to the BSA of 30 gallons per minute of groundwater extracted from Area A

* Barrier preventing Buffalo River in-migration yielding an average flow to the BSA of 10 gallons per minute of groundwater extracted from Area A

In our conversation you mentioned that it may take several weeks for the NYSDEC to review this option. We would appreciate your promptness in forwarding it to them with your recommendations. Thank you.

Sincerely,

David E. Sauer
Senior Environmental Engineer

cc: P. Mescall
W. Garrow
D. Darragh (Buchanan-Ingersoll)
D. Paley (Allied-Signal)
B. Senefelder (Golder)
3.4.1.7
4.3.5.32

TABLE
BUFFALO COLOR CORPORATION
GROUND WATER QUALITY COMPARED TO BSA DISCHARGE LIMITS
(ROUND 1 - JUNE 1996)
SHALLOW AQUIFER - WITHOUT BARRIER
(DETECTIONS ONLY)

Analytes (1)	Sample Identification/Concentration (mg/kg)				Actual Ave. Conc.	Estimated Conc.	Estimated Loading	BCC Permit 30 Day Range BSA Discharge Limits			
	RFI22	RFI24	RFI25	RFI26				Mo Ave	Mo Ave	Max	Max
Volatile Organic Compounds	AREA A	AREA A	AREA A	AREA A	(mg/l)	(mg/l) 60% dilution	(lbs./day) @30 gpm	(mg/l)	(lbs./day)	(mg/l)	lbs./day
BENZENE	0.046	0.014			*0.0163*	*0.0065*	*0.0023*	*0.0570*	*0.18*	*0.134*	*0.42*
CHLOROBENZENE	0.26		4.6	5.2	*2.5156*	*1.0063*	*0.3608*	*0.142*	*0.45*	*0.38*	*1.20*
ETHYLBENZENE	0.1				*0.0269*	*0.0108*	*0.0039*	*0.142*	*0.45*	*0.38*	*12.00*
TETRACHLOROETHENE					*0.0025*	*0.0010*	*0.0004*	*0.052*	*0.16*	*0.164*	*0.52*
TOLUENE	0.0062	0.0065			*0.0044*	*0.0018*	*0.0006*	*0.028*	*0.09*	*0.074*	*0.23*
M+P-XYLENE	0.04				0.0119	0.0048	0.0017	-	-	-	-
O-XYLENE	0.033				0.0101	0.0041	0.0015	-	-	-	-
Semi-Volatile Organic Compounds											
ACENAPHTHENE	0.0061	0.02	0.01		*0.0097*	*0.0039*	*0.0014*	*0.019*	*0.06*	*0.047*	*0.15*
ANILINE	0.29	2.3	1.6	13	4.2975	1.7190	0.6164			276	1150
ANTHRACENE		0.0078			*0.0038*	*0.0015*	*0.0005*	*0.019*	*0.06*	*0.047*	*0.15*
BUTYL BENZYL PHTHALATE					0.0025	0.0010	0.0004	-	-	-	-
CARBAZOLE		0.022			0.0074	0.0030	0.0011	-	-	-	-
4-CHLOROANILINE			0.023		0.0076	0.0031	0.0011	-	-	-	-
2-CHLOROPHENOL			0.01		0.0063	0.0025	0.0009	-	-	20	12.84
CHRYSENE		0.0051			0.0032	0.0013	0.0005	-	-	-	-
DIBENZOFURAN	0.0071	0.018			0.0075	0.0030	0.0011	-	-	-	-
1,2-DICHLOROBENZENE			0.052		*0.0149*	*0.0060*	*0.0021*	*0.196*	*0.62*	*0.794*	*2.52*
1,3-DICHLOROBENZENE			0.0058		*0.0033*	*0.0013*	*0.0005*	*0.142*	*0.45*	*0.38*	*1.2*
1,4-DICHLOROBENZENE			0.046		*0.0134*	*0.0054*	*0.0019*	*0.142*	*0.45*	*0.38*	*1.2*
N,N-DIETHYLANILINE			0.014		0.0073	0.0029	0.0010	-	-	0.119	500
DIETHYLPHTHALATE					*0.0025*	*0.0010*	*0.0004*	*0.0460*	*0.1500*	*0.113*	*0.3600*
N,N-DIMETHYLANILINE	0.031	0.088			0.0323	0.0129	0.0046	-	-	0.276	1150
BIS(2-ETHYLHEXYL)PHTHALATE	0.007		0.009		*0.0059*	*0.0024*	*0.0008*	*0.0950*	*0.30*	*0.258*	*0.82*
FLUORANTHENE		0.015	0.01		*0.0075*	*0.0030*	*0.0011*	*0.022*	*0.07*	*0.054*	*0.17*
N-METHYLANILINE		0.16			0.0419	0.0168	0.0060	-	-	180	750
NAPHTHALENE	0.087	0.072	0.012		*0.0434*	*0.0174*	*0.0062*	*0.019*	*0.06*	*0.047*	*0.15*
1-NAPHTHYLAMINE		0.5	0.045		0.1388	0.0555	0.0199	-	-	-	-
2-NAPHTHYLAMINE		0.073	0.016		0.0248	0.0099	0.0035	-	-	-	-
NITROBENZENE					*0.0025*	*0.0010*	*0.0004*	*2.237*	*7.09*	*3.2*	*10.14*
N-NITROSODIPHENYLAMINE		0.091	0.036		0.0330	0.0132	0.0047	-	-	-	-
PHENANTHRENE		0.019			*0.0066*	*0.0027*	*0.0010*	*0.019*	*0.06*	*0.047*	*0.15*
PYRENE		0.011	0.0061		*0.0055*	*0.0022*	*0.0008*	*0.020*	*0.06*	*0.048*	*0.15*
O+P-TOLUIDINE	0.051	0.14	0.034		0.0563	0.0225	0.0081	-	-	-	
1,2,4-TRICHLOROBENZENE		0.0025	0.0025		*0.0025*	*0.0010*	*0.0004*	*0.010*	*0.03*	*0.01*	*0.03*

TABLE
BUFFALO COLOR CORPORATION
GROUND WATER QUALITY COMPARED TO BSA DISCHARGE LIMITS
(ROUND 1 - JUNE 1996)
SHALLOW AQUIFER - WITHOUT BARRIER
(DETECTIONS ONLY)

Analytes (1)	Range (detection/concentration (mg/L))				Actual Ave Conc.	Estimated Conc.	Estimated Loading	BSA Discharge Limits (4)			
Metals	RFI22	RFI24	RFI25	RFI26		-60% dilution	@30 gpm	30 Day Ave	7 Day Ave	Max	Min
ALUMINUM	45.4	71.2	27.8	6.06	37.6150	15.0460	5.3949	-	-	-	-
ARSENIC	0.0638	0.169	0.0828	0.819	0.2837	0.1135	0.0407	-	-	-	-
BARIUM	4.66	0.311	0.297	0.216	1.3710	0.5484	0.1966	-	-	-	-
CADMIUM	0.103				0.0276	0.0111	0.0040	-	-	-	-
CHROMIUM	0.398	0.147	0.358	0.217	0.2800	0.1120	0.0402	-	-	40	6.42
COBALT		0.0682			0.0189	0.0076	0.0027	-	-	-	-
COPPER	1.02	0.358	0.126	0.0498	0.3885	0.1554	0.0557	-	-	16	5.14
IRON	101	225	78.7	20.2	106.2250	42.4900	15.2352	-	-	-	-
LEAD	1.27	0.377	0.0799		*0.4324*	*0.1729*	*0.0620*	*0.32*	*1.01*	*0.69*	*2.19*
MANGANESE	0.413	2.38	2.3	0.282	1.3438	0.5375	0.1927	-	-	-	-
MERCURY	0.00306	0.00344		0.00187	0.0021	0.0009	0.0003	-	-	-	-
NICKEL	0.197	0.217	0.0765	0.0526	0.1358	0.0543	0.0195	-	-	14	8.99
VANADIUM	0.18	0.182	0.064	0.648	0.2685	0.1074	0.0385	-	-	-	-
ZINC	1.85	1.22	0.63	0.2	*0.9750*	*0.3900*	*0.1398*	*1.050*	*3.33*	*2.61*	*8.27*
Inorganics											
CHLORIDE	189	118	238	1050	398.75	159.50	57.1903	-	-	-	-
TOTAL CYANIDE	0.894	0.103	0.0192	6.56	*1.89*	*0.76*	*0.2717*	-	-	*6.2*	*19.91*
TOTAL DISSOLVED SOLIDS	NA	884	NA	NA	221.00	88.40	31.6967	-	-	-	-
TOTAL HARDNESS	NA	695	NA	NA	173.75	69.50	24.9199	-	-	-	-
HEXAVALENT CHROMIUM	0.0253	0.0297			0.02	0.01	0.0023	-	-	-	-
NITRATE NITROGEN	0.226		0.354	0.0939	0.17	0.07	0.0251	-	-	-	-
NITRATE/NITRITE NITROGEN	0.226		0.354	0.0939	0.17	0.07	0.0251	-	-	-	-
NITRITE NITROGEN					0.01	0.00	0.0014	-	-	-	-
pH	9.3	10.6	8.2	10.8	9.73	-	-	-	-	5.0-12.0	-
TOTAL PHOSPHORUS	18.8	9.3	1.6	13	10.68	4.27	1.5311	-	-	15.35	-
SULFATE	690	25.9	518	560	448.48	179.39	64.3221	-	-	-	-
TOTAL SULFIDE	0.5	2.7	5.4	44.8	13.35	5.34	1.9147	-	-	-	-

Notes: (1) Analysis performed in accordance with USEPA Methods identified in Quality Assurance Project Plan (Golder Associates, Inc. 1995).
(2) Detections only reported.
(3) Non-detect values (blank cells) considered as 1/2 the detection limit for calculating average concentrations.
(4) Buffalo Color Discharge Point 002/003/004 limitations from Buffalo Sewer Authority Permit No. 99-05-BU021 effective for Class GA groundwaters as amended, June 1999.
Analytes, concentrations, and limits italicized regulated under 40CFR 414.
pH determined by field measurement
(-) = No standard

Estimated loading calculated by: mg/L x 3.785L/gal x g/1000mg x lb/453.6g x 30 gal/min x 1440 min/day = lb/day

TABLE
BUFFALO COLOR CORPORATION
GROUND WATER QUALITY COMPARED TO BSA DISCHARGE LIMITS
(ROUND 1 - JUNE 1996)
SHALLOW AQUIFER - WITH BARRIER
(DETECTIONS ONLY)

	Sample Identification/Concentration (mg/l) (2)				Annual Ave Conc	Estimated Loading	BCT Limits (Part 410) BSA Discharge Limits			
Analytes (1)	RFI22	RFI24	RFI25	RFI26			Mo Ave	Mo Ave	Max	Max
Volatile Organic Compounds	AREA A	AREA A	AREA A	AREA A	(mg/l)	(lbs./day) @ 10 gpm	(mg/l)	(lbs./day)	(mg/l)	lbs./day
BENZENE	0.046	0.014			*0.0163*	*0.0019*	*0.0570*	*0.18*	*0.134*	*0.42*
CHLOROBENZENE	0.26		4.6	5.2	*2.5156*	*0.3007*	*0.142*	*0.45*	*0.38*	*1.20*
ETHYLBENZENE	0.1				*0.0269*	*0.0032*	*0.142*	*0.45*	*0.38*	*12.00*
TETRACHLOROETHENE					*0.0025*	*0.0003*	*0.052*	*0.16*	*0.164*	*0.52*
TOLUENE	0.0062	0.0065			*0.0044*	*0.0005*	*0.028*	*0.09*	*0.074*	*0.23*
M+P-XYLENE	0.04				0.0119	0.0014	-	-	-	-
O-XYLENE	0.033				0.0101	0.0012	-	-	-	-
Semi-Volatile Organic Compounds										
ACENAPHTHENE	0.0061	0.02	0.01		*0.0097*	*0.0012*	*0.019*	*0.06*	*0.047*	*0.15*
ANILINE	0.29	2.3	1.6	13	4.2975	0.5136			276	1150
ANTHRACENE		0.0078			*0.0038*	*0.0005*	*0.019*	*0.06*	*0.047*	*0.15*
BUTYL BENZYL PHTHALATE					0.0025	0.0003	-	-	-	-
CARBAZOLE		0.022			0.0074	0.0009	-	-	-	-
4-CHLOROANILINE			0.023		0.0076	0.0009	-	-	-	-
2-CHLOROPHENOL			0.01		0.0063	0.0007	-	-	20	12.84
CHRYSENE		0.0051			0.0032	0.0004	-	-	-	-
DIBENZOFURAN	0.0071	0.018			0.0075	0.0009	-	-	-	-
1,2-DICHLOROBENZENE			0.052		*0.0149*	*0.0018*	*0.196*	*0.62*	*0.794*	*2.52*
1,3-DICHLOROBENZENE			0.0058		*0.0033*	*0.0004*	*0.142*	*0.45*	*0.38*	*1.2*
1,4-DICHLOROBENZENE			0.046		*0.0134*	*0.0016*	*0.142*	*0.45*	*0.38*	*1.2*
N,N-DIETHYLANILINE			0.014		0.0073	0.0009	-	-	0.119	500
DIETHYLPHTHALATE					*0.0025*	*0.0003*	*0.0460*	*0.1500*	*0.113*	*0.3600*
N,N-DIMETHYLANILINE	0.031	0.088			0.0323	0.0039	-	-	0.276	1150
BIS(2-ETHYLHEXYL)PHTHALATE	0.007		0.009		*0.0059*	*0.0007*	*0.0950*	*0.30*	*0.258*	*0.82*
FLUORANTHENE		0.015	0.01		*0.0075*	*0.0009*	*0.022*	*0.07*	*0.054*	*0.17*
N-METHYLANILINE		0.16			0.0419	0.0050	-	-	180	750
NAPHTHALENE	0.087	0.072	0.012		*0.0434*	*0.0052*	*0.019*	*0.06*	*0.047*	*0.15*
1-NAPHTHYLAMINE		0.5	0.045		0.1388	0.0166	-	-	-	-
2-NAPHTHYLAMINE		0.073	0.016		0.0248	0.0030	-	-	-	-
NITROBENZENE					*0.0025*	*0.0003*	*2.237*	*7.09*	*3.2*	*10.14*
N-NITROSODIPHENYLAMINE		0.091	0.036		0.0330	0.0039	-	-	-	-
PHENANTHRENE		0.019			*0.0066*	*0.0008*	*0.019*	*0.06*	*0.047*	*0.15*
PYRENE		0.011	0.0061		*0.0055*	*0.0007*	*0.020*	*0.06*	*0.048*	*0.15*
O+P-TOLUIDINE	0.051	0.14	0.034		0.0563	0.0067	-	-	-	
1,2,4-TRICHLOROBENZENE					*0.0025*	*0.0003*	*0.01*	*0.032*	*0.01*	*0.032*

TABLE
BUFFALO COLOR CORPORATION
GROUND WATER QUALITY COMPARED TO BSA DISCHARGE LIMITS
(ROUND 1 - JUNE 1996)
SHALLOW AQUIFER - WITH BARRIER
(DETECTIONS ONLY)

	Sample Identification/Location/Depth (ft)				Actual	Estimated	BCC Permit No. 99-05-BU021 BSA Discharge Limits			
Analytes (ug/l)	RFI22	RFI24	RFI25	RFI26	Ave Conc.	Loading	Mo. Ave.	Mo. Ave.	Max.	Max.
Metals						@ 10 gpm				
ALUMINUM	45.4	71.2	27.8	6.06	37.6150	4.4957	-	-	-	-
ARSENIC	0.0638	0.169	0.0828	0.819	0.2837	0.0339	-	-	-	-
BARIUM	4.66	0.311	0.297	0.216	1.3710	0.1639	-	-	-	-
CADMIUM	0.103				0.0276	0.0033	-	-	-	-
CHROMIUM	0.398	0.147	0.358	0.217	0.2800	0.0335	-	-	40	6.42
COBALT		0.0682			0.0189	0.0023	-	-	-	-
COPPER	1.02	0.358	0.126	0.0498	0.3885	0.0464	-	-	16	5.14
IRON	101	225	78.7	20.2	106.2250	12.6960	-	-	-	-
LEAD	1.27	0.377	0.0799		*0.4324*	*0.0517*	*0.32*	*1.01*	*0.69*	*2.19*
MANGANESE	0.413	2.38	2.3	0.282	1.3438	0.1606	-	-	-	-
MERCURY	0.00306	0.00344		0.00187	0.0021	0.0003	-	-	-	-
NICKEL	0.197	0.217	0.0765	0.0526	0.1358	0.0162	-	-	14	8.99
VANADIUM	0.18	0.182	0.064	0.648	0.2685	0.0321	-	-	-	-
ZINC	1.85	1.22	0.63	0.2	*0.9750*	*0.1165*	*1.050*	*3.33*	*2.61*	*8.27*
Inorganics										
CHLORIDE	189	118	238	1050	398.75	47.6586	-	-	-	-
TOTAL CYANIDE	0.894	0.103	0.0192	6.56	*1.89*	*0.2264*	-	-	*6.2*	*19.91*
TOTAL DISSOLVED SOLIDS	NA	884	NA	NA	221.00	26.4139	-	-	-	-
TOTAL HARDNESS	NA	695	NA	NA	173.75	20.7666	-	-	-	-
HEXAVALENT CHROMIUM	0.0253	0.0297			0.02	0.0019	-	-	-	-
NITRATE NITROGEN	0.226		0.354	0.0939	0.17	0.0209	-	-	-	-
NITRATE/NITRITE NITROGEN	0.226		0.354	0.0939	0.17	0.0209	-	-	-	-
NITRITE NITROGEN					0.01	0.0012	-	-	-	-
pH	9.3	10.6	8.2	10.8	9.73	-	-	-	5.0-12.0	-
TOTAL PHOSPHORUS	18.8	9.3	1.6	13	10.68	1.2759	-	-	15.35	-
SULFATE	690	25.9	518	560	448.48	53.6017	-	-	-	-
TOTAL SULFIDE	0.5	2.7	5.4	44.8	13.35	1.5956	-	-	-	-

Notes: (1) Analysis performed in accordance with USEPA Methods identified in Quality Assurance Project Plan (Golder Associates, Inc. 1995).
(2) Detections only reported.
(3) Non-detect values (blank cells) considered as 1/2 the detection limit for calculating average concentrations.
(4) Buffalo Color Discharge Point 002/003/004 limitations from Buffalo Sewer Authority Permit No. 99-05-BU021 effective for Class GA groundwaters as amended, June 1999.
Analytes, concentrations, and limits italicized regulated under 40CFR 414.
pH determined by field measurement
(-) = No standard

Estimated loading calculated by: mg/L x 3.785L/gal x g/1000mg x lb/453.6g x 10 gal/min x 1440 min/day = lb/day

buffalo
COLOR CORPORATION
p.o. box 7027 / buffalo, new york 14240-7027
716-827-4500

January 14, 2000

GOLDER ASSOCIATES
REC'D | PN
FN
CC | ROUTE
JAN 19 2000
BUFFALO, NY

Mr. James Kruszka
Buffalo Sewer Authority
90 West Ferry Street
Buffalo, NY 14213

Dear Mr. Kruszka,

These are Buffalo Color's comments to Mr. Caruso's letter of December 30, 1999 presenting a draft B.P.D.E.S. Permit No. 99-12-BU021 and to your fax of January 13, 2000 concerning revised language in the draft revision. Reference is also made to my letter to Mr. Caruso of December 3, 1999 concerning provision for the discharge of extracted groundwater into Buffalo Color's process waste sewer in the next revision of BCC's permit.

Attached are proposed changes and additions to the text of the permit.

Given its current financial condition, resolution of the terms and conditions under which pumped groundwater will be handled in the future is considered a critical issue by Buffalo Color Corporation.

If there are any questions, please feel free to call me at 827-4525. Thank you.

Sincerely,

David E. Sauer
Senior Environmental Engineer

cc: E. Schultz
M. Lindaman
D. Darragh (Buchanan-Ingersoll)
D. Paley (Honeywell)
B. Senefelder (Golder)
3.4.1.7 and 4.3.5.32

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DRAFT B.P.D.E.S. PERMIT NUMBER 99-12-BU021
Proposed Changes and Additions

Page 2 Table - change item in the table of the draft:

Sample Point	Parameter	Discharge Limitations	Sampling Requirements Type	Frequency
002	Total Flow	572,000 gallons	Flow Meter[(2)]	Continuous

Page 3 1st Paragraph - insert before the 1st sentence of the revised draft:

The following mass loading limits apply at sampling point 002.

Page 3 1st Paragraph - insert after 1st sentence of the revised draft:

If the loading of any of the following parameters at sampling location 002 and/or at sampling locations 003 and 004 cannot be determined to be in compliance due to elevated concentrations from the discharge of groundwater pumped into the plant sewer system from beneath the facility, the net loading will be reported. The net loading will be calculated by subtracting the groundwater loading simultaneously metered, sampled, and analyzed at (groundwater) sampling location 005 from the loading at sampling location 002 and/or sampling locations 003 and 004. The groundwater loading from sampling location 005 will also be reported.

Page 4 Table - insert before note at end of table of the draft:

Sample Point	Parameter	Discharge Limitations	Sampling Requirements Type	Frequency
005[(11)]	Flow	72,000 gal/day	Flow Meter[(10)]	Continuous

Page 5 Table - change item in the table of the draft:

Sample Point	Parameter	Reporting Requirements Initial Report	Subsequent Reports
002, 003, 004, & 005	All Analytes* and the Cyanide Treatment Record - except those analytes tested annually	January 31, 2000	Every April 30, July 31, October 31, & January 31

Page 6 Special Requirements - change or add items in the draft:

(10) When sample points 003 & 004 and/or 005 have to be monitored instead of or in addition to sample point 002, the daily flows for each discharge must be recorded and submitted with the report.

(11) A groundwater metering and sampling station (sampling location 005) is to be constructed on the basis of a remediation program currently under negotiation between Buffalo Color and NYSDEC. Buffalo Color will supply a modified "Sampling Locations" drawing prior to activation of groundwater pumping activities.

BUFFALO SEWER AUTHORITY
WASTEWATER TREATMENT PLANT

Daniel Bentivogli
Treatment Plant Superintendent

Anthony J. Barone
Director of Sewer Maintenance

Anthony A. Hazzan
General Manager

December 30, 1999

Mr. David Sauer
Manager Environmental Affairs
Buffalo Color Corporation
P.O. Box 7027
Buffalo, New York 14240

Re: Draft B.P.D.E.S. Permit 99-12-BU021

Dear Mr. Sauer:

Recently, a USEPA representative inspected your facility. In accordance with the inspector's report dated September 16, 1999 and your response dated October 11, 1999, we have re-calculated Buffalo Color's categorical discharge limits using a daily average flow of 334,000 gallons.

Enclosed is a draft B.P.D.E.S. Permit No. 99-12-BU021 which incorporates the new discharge limits. You will note that EPA Test Methods 601 and 602 have been replaced with EPA Test Method 624.

Please review this draft carefully. Any comments must be submitted by January 12, 2000. If we do not hear from you by this date, this permit will become final.

If you have any questions, please call Mr. James L. Kruszka at 883-1820 ext. 256.

Very truly yours,

BUFFALO SEWER AUTHORITY

Anthony A. Hazzan
General Manager

By: James Caruso
Associate Chemist
Industrial Waste Section

JC:JK:ks
Enc.
cc: D. Bentivogli
I:\WPDOCS\JK\LTR\DBCC

AUTHORIZATION TO DISCHARGE UNDER THE BUFFALO POLLUTANT DISCHARGE ELIMINATION SYSTEM

PERMIT NO. 99-12-BU021 **DRAFT**

In accordance with the provisions of the Federal Water Pollution Control Act, as amended, and the Sewer Regulations of the Buffalo Sewer Authority, authorization is hereby granted to:

BUFFALO COLOR CORPORATION

to discharge wastewater from a facility located at:

100 LEE STREET, BUFFALO NEW YORK 14210

to the Buffalo Municipal Sewer System.

Issuance of this permit is based upon a permit application filed on **November 20, 1998** and analytical data. This permit is granted in accordance with discharge limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

Effective this 15th day of January, 2000

To Expire the 14th day of January, 2003

_____

General Manager

Signed this _____ day of _____, 19

PART I: SPECIFIC CONDITIONS

A. DISCHARGE LIMITATIONS & MONITORING REQUIREMENTS

During the period beginning the effective date of this Permit and lasting until the expiration date, discharge from the permitted facility outfall (see attached map) shall be limited and monitored by the permittee as specified below:

Sample Point	Parameter	Discharge Limitations Daily Max. (mg/L)	Mo. Avg.	M.A.I.D.*	Sampling Requirements Type	Frequency
002	pH[1]	5.0 - 12.0 SU			Probe	Continuous
	Total Flow	500,000 gallons			Flow Meter[2]	Continuous
	Physical Observations[3]	N/A			Grab	Every 15 minutes
	Amenable Cyanide	24.3 lbs.	17.1 lbs	6.2	Grab [8]	Monthly
	BOD_5	250 mg/L[4]			Composite[5]	Weekly
	Total Suspended Solids	250 mg/L[4]			Composite	Monthly
	Total Phosphate	15.35 mg/L[4]			Composite	Monthly
	Total Phenol [6]	12.84 lbs.		20.0	Composite	Monthly
	Aniline	1150 lbs.			Composite	Monthly
	N,N'-Dimethylaniline	750 lbs.			Composite	Monthly
	N-Methylaniline	1150 lbs.			Composite	Monthly
	N,N'-Diethylaniline	500 lbs.			Composite	Monthly
	N-Ethylaniline	500 lbs.			Composite	Monthly
	Total Nickel	8.99 lbs.		14.0	Composite	Monthly
	Total Copper	5.14 lbs.		16.0	Composite	Quarterly
	Total Chromium	6.42 lbs.		40.0	Composite	Quarterly
	Purgeables-EPA Test Method 624	No Limit[7]			Grab[8]	Annual
	Base/Neutrals & Acid Extractable-EPA Test Method 625 [9]	No Limit[7]			Composite	Annual
	Total PCBs - EPA Test Method 608	0.0008 lbs.		.002	Composite	Annual

The sampling period for all parameters is a minimum of a one 24 hour day
* M.A.I.D. - Maximum Allowable Instantaneous Discharge - Slug Limit.
SEE PAGE SIX (6) FOR EXPLANATION OF SPECIFIC REQUIREMENTS.

PART I: SPECIFIC CONDITIONS

A. DISCHARGE LIMITATIONS & MONITORING REQUIREMENTS (continued)

The following mass limits apply to the combined discharge of sample points 003 & 004 if and only if, the loading of any contaminant at sample location 002 cannot be determined to be in compliance due to elevated limits of detection in the analytical method(s) for such contaminant.

The daily maximum and monthly average discharge limitations for the following parameters are the combined total mass based on the combined average flow of 334,000 gpd for SP003 & SP004 and the concentration limits as stated in 40 CFR Part 414.111:

Sample		Discharge Limitations					Sampling Requirements	
Point	Parameter	Daily Max.		Mo. Avg.		M.A.I.D.	Type	Frequency
		ug/L	Lbs.	ug/L	Lbs.	mg/L		
002	1,1-Dichloroethane	59	0.164	22	0.061		Grab	Quarterly
	1,1-Dichloroethylene	60	0.167	22	0.061		Grab	Quarterly
	1,1,1-Trichloroethane	59	0.164	22	0.061		Grab	Quarterly
	1,1,2-Trichloroethane	127	0.354	32	0.089		Grab	Quarterly
	1,2-Dichlorobenzene	794	2.212	196	0.546		Grab	Quarterly
	1,2-Dichloroethane	574	1.599	180	0.501		Grab	Quarterly
	1,2-Dichloropropane	794	2.212	196	0.546		Grab	Quarterly
	1,2-Trans-Dichloroethylene	66	0.184	180	0.070		Grab	Quarterly
	1,2,4-Trichlorobenzene	10	0.028	10	0.028	0.8	Composite	Quarterly
	1,3-Dichlorobenzene	380	1.059	142	0.396		Grab	Quarterly
	1,3-Dichloropropylene	794	2.212	196	0.546		Grab	Quarterly
	1,4-Dichlorobenzene	380	1.059	142	0.396		Grab	Quarterly
	2-Nitrophenol	231	0.643	65	0.181		Composite	Quarterly
	4-Nitrophenol	576	1.604	162	0.451		Composite	Quarterly
	4,6-Dinitro-o-cresol	277	0.772	78	0.217		Composite	Quarterly
	Acenaphthene	47	0.131	19	0.053		Composite	Quarterly
	Anthracene	47	0.131	19	0.053		Composite	Quarterly
	Benzene	134	0.373	57	0.159		Grab	Quarterly
	Bis (2-ethylhexyl)phthalate	258	0.719	95	0.265		Composite	Quarterly
	Carbon Tetrachloride	380	1.059	142	0.396		Grab	Quarterly
	Chlorobenzene	380	1.059	142	0.396		Grab	Quarterly
	Chloroethane	295	0.822	110	0.306		Grab	Quarterly
	Chloroform	325	0.905	111	0.309	8.5	Grab	Quarterly
	Di-ethylphthalate	113	0.315	46	0.128		Composite	Quarterly
	Di-methylphthalate	47	0.131	19	0.053		Composite	Quarterly
	Di-n-butylphthalate	43	0.120	20	0.056		Composite	Quarterly
	Ethylbenzene	380	1 059	142	0.396		Grab	Quarterly
	Fluoranthene	54	0.150	22	0.061	0.1	Composite	Quarterly

A. DISCHARGE LIMITATIONS & MONITORING REQUIREMENTS (continued)

Sample Point	Parameter	Discharge Limitations Daily Max. ug/L	Daily Max. Lbs.	Mo. Avg. ug/L	Mo. Avg. Lbs.	M.A.I.D. mg/L	Sampling Type	Requirements Frequency
002	Fluorene	47	0.131	19	0.053		Composite	Quarterly
	Hexachlorobenzene	794	2.212	196	0.546		Composite	Quarterly
	Hexachlorobutadiene	380	1.059	142	0.396		Composite	Quarterly
	Hexachloroethane	794	2.212	196	0.546		Composite	Quarterly
	Methyl Chloride	295	0.822	110	0.306		Grab	Quarterly
	Methylene Chloride	170	0.474	36	0.100		Grab	Quarterly
	Naphthalene	47	0.131	19	0.053		Composite	Quarterly
	Nitrobenzene	3201	8.917	2237	6.231		Composite	Quarterly
	Phenanthrene	47	0.131	19	0.053		Composite	Quarterly
	Pyrene	48	0.134	20	0.056	0.1	Composite	Quarterly
	Tetrachloroethylene	164	0.457	52	0.145		Grab	Quarterly
	Toluene	74	0.206	28	0.078		Grab	Quarterly
	Trichloroethylene	69	0.192	26	0.072		Grab	Quarterly
	Vinyl Chloride	172	0.479	97	0.270		Grab	Quarterly
	Total Lead	690	1.922	320	0.891	65.0	Composite	Quarterly
	Total Zinc	2610	7.270	1050	2.925	25.0	Composite	Quarterly
003& 004	Total Flow	No Limit					Flow meter (10)	Continuous

The sampling period for all parameters is a minimum of a one 24 hour day.
SEE PAGE SIX (6) FOR AN EXPLANATION OF SPECIFIC REQUIREMENTS.

PART I: SPECIFIC CONDITIONS

B. DISCHARGE MONITORING REPORTING REQUIREMENTS

During the period beginning the effective date of this permit and lasting until the expiration date, discharge monitoring results shall be summarized and reported by the permittee on the days specified below:

Sample Point	Parameter	Reporting Requirements	
		Initial Report	**Subsequent Reports**
002, 003 & 004	All Analytes* and the Cyanide Treatment Record - except analytes tested annually	January 31, 2000	Every July 31, October 31 January 31, April 30
	EPA Method 624, 608 and 625	July 31, 2000	every July 31st

* pH results of composites only - strip chart reading of SP002 shall be available upon request. These records must be maintained for a minimum of three (3) years, in accordance with 40 CFR Parts 403.12(o) and 403.14(c).

PART I. SPECIFIC CONDITIONS

C. SPECIAL REQUIREMENTS FOR PART 1 A.

(1) The pH meter must be calibrated and maintained in accordance with the manufacturer's specifications. The calibrations and the person(s) responsible for it must be recorded in a bound logbook. This logbook must be available for BSA inspection at all times.

(2) All flow meters must be calibrated and certified by a certified manufacturer's representative at least once per year. This report must be submitted with the annual report. All flow meters must be serviced and maintained in accordance with the manufacturer's specifications.
The BSA must be notified of any malfunctions which lasts for more than 24 hours within three (3) days of the malfunction. If a flow meter, especially at SP 002, remains out of service for more than five (5) consecutive days, the permittee must install a temporary meter until such time as the defective meter is repaired or replaced. The BSA at its option, may require a written report on any malfunctions.

(3) All grabs must be saved three days and available for BSA inspection. Four consecutive 15 minute grabs may be composited into one sample bottle.

(4) Surchargeable limit only.

(5) All composites shall be flow proportioned.

(6) EPA Test Method 604.

(7) The permitee must report any compound whose concentration is greater than 0.01 mg/l. The permittee is not authorized to discharge any of the parameters evaluated by these test procedures which may cause or contribute to a violation of water quality standards or harm the sewerage system. Any parameter detected may, at the discretion of the Buffalo Sewer Authority, be specifically limited and incorporated into this permit.

(8) Four grab samples must be properly taken and preserved over an equally spaced time period during a normal discharge day. The four grab samples must be flow proportionally composited at a New York State Department of Health certified lab.

(9) All samples collected for the base neutral and acid extractable EPA analytical test procedures must go through a special cleanup to prevent aniline and aniline derivative interference of the analytical method.

(10) When sample points 003 & 004 have to be monitored instead of sample point 002, the daily flows for each discharge must be recorded and submitted with the report.

PART I: SPECIFIC CONDITIONS

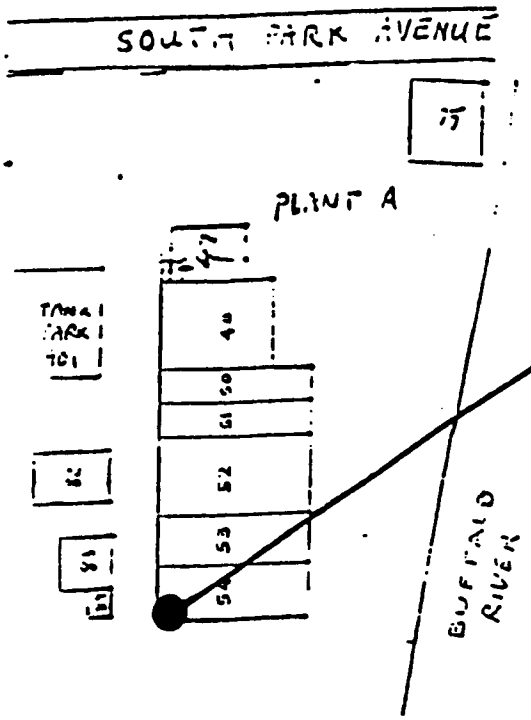
D. SPECIAL REQUIREMENTS FOR QUARTERLY MONITORING REPORTS OF CYANIDE TREATMENT FOR THE FISHED SALT WASTESTREAM.

The following format must be used to document the sodium hypochlorite addition to the fished salt wastestream and submitted with the quarterly monitoring reports:

QUARTERLY CYANIDE TREATMENT RECORD

		1st Month	2nd Month	3rd Month	
(1)	Days In Month				Days
(2)	Days Operating				Days
(3)	Days Feeding Hypo				Days
(4)	Time Efficiency				(%)
(5)	Hypo Volume added				Gallons
(6)	Hypo Weight added				Lbs NaOC1
(7)	Total Cyanide Equivalent (60%)				Lbs TCN
(8)	Total Cyanide Equivalent Rate				Lbs/Day

SAMPLING LOCATIONS



SAMPLING LOCATION 003

Indoors at the South-West corner of Building 54

Grabs: 2nd floor VT-4 Outlet pH probe chamber

Continuous: 3rd floor VT-4 top Tygon sampling tube

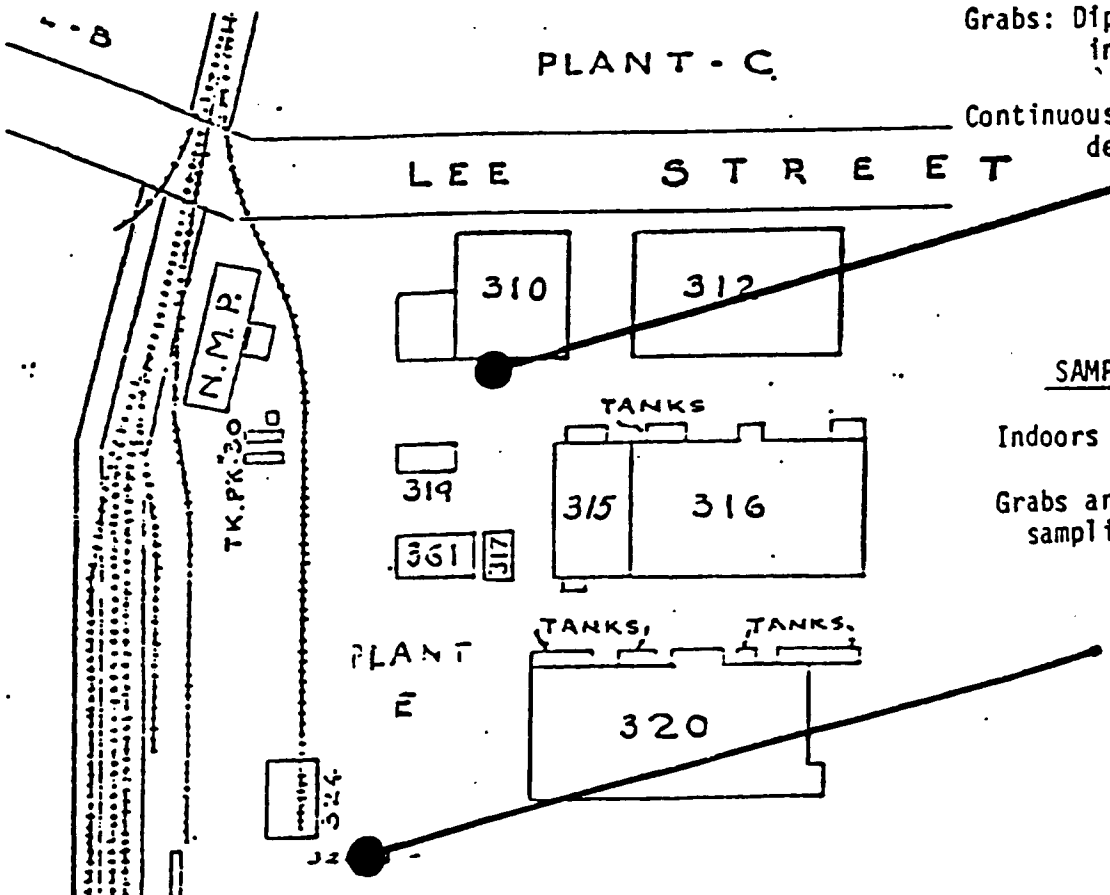
Sampling personnel must be accompanied by BCC supervision.

SAMPLING LOCATION 004

At Separator East of Bldg. 31

Grabs: Dipped through opening in decking

Continuous: Sampler set up on decking



SAMPLING LOCATION 002

Indoors at Building 326 shed

Grabs and Continuous: at sampling trough

Scale 150 Feet

BUFFALO POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT
PART II: GENERAL CONDITIONS

A. MONITORING AND REPORTING

1. Local Limits

Except as otherwise specified in this permit, the permit holder shall comply with all specific prohibitions, limits on pollutants or pollutant parameters set forth in the Buffalo Sewer Authority Sewer Use Regulations, as amended from time to time, and such prohibitions, limits and parameters shall be deemed pretreatment standards for purposes for the Clean Water Act.

2. Definitions

Definitions of terms contained in this permit are as defined in the Buffalo Sewer Authority Sewer Use Regulations.

3. Discharge Sampling Analysis

All Wastewater discharge samples and analyses and flow measurements shall be representative of the volume and character of the monitored discharge. Methods employed for flow measurements and sample collections and analyses shall conform to the Buffalo Sewer Authority "Sampling Measurement and Analytical Guidelines Sheet".

4. Recording of Results

For each measurement or sample taken pursuant to the requirements of the permit, the permittee shall record the information as required in the "Sampling Measurement and Analytical Guidelines Sheet".

5. Additional Monitoring by Permittee

If the permittee monitors any pollutants at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified in 40 CFR Part 136 the results of such monitoring shall be included in the calculation and reporting of values required under Part I,B. Such increased frequency shall also be indicated.

6. Reporting

All reports prepared in accordance with this Permit shall be submitted to:

Industrial Waste Section
Buffalo Sewer Authority Treatment Plant
90 West Ferry Street
Buffalo, New York 14213

All self monitoring reports shall be prepared in accordance with the BSA "Sampling Measurement and Analytical Guidelines Sheet". These reporting requirements shall not relieve the permittee of any other reports which may be required by the N.Y.S.D.E.C. or the U.S.E.P.A.

B. PERMITTEE REQUIREMENTS

1. Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit and with the information contained in the BPDES permit application on which basis this permit is granted. In the event of any facility expansions, production increases, process modifications or the installation, modification or repair of any pretreatment equipment which may result in new, different or increased discharges of pollutants, a new BPDES Permit application must be submitted prior to any change. Following receipt of an amended application, the BSA may modify this permit to specify and limit any pollutants not previously limited. In the event that the proposed change will be covered under an applicable Categorical Standard, a Baseline Monitoring Report must be submitted at least ninety (90) days prior to any discharge.

2. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed, calibration and maintenance of instrumentation, and recordings from continuous monitoring instrumentation shall be retained at this facility for a minimum of three (3) years, or longer if requested by the General Manager.

3. Notification of Slug, Accidental Discharge or Spill

In the event that a slug, accidental discharge or any spill occurs at the facility for which this permit is issued, it is the responsibility of the permittee to immediately notify the B.S.A. Treatment Plant at 883-1820 of the quantity and character of such discharge. If requested by the B.S.A., within five (5) days following all such discharges, the permittee shall submit a report describing the character and duration of the discharge, the cause of the discharge, and measures taken or that will be taken to prevent a recurrence of such discharge.

4. Noncompliance Notification

If, for any reason, the permittee does not comply with or will be unable to comply with any discharge limitation specified in this permit, the permittee or their assigns must verbally notify the Industrial Waste Section at 883-1820 within twenty-four (24) hours

of becoming aware of the violation. The permittee shall provide the Industrial Waste Section with the following information, in writing, within five (5) days of becoming aware of such condition:

a. a description of the discharge and cause of noncompliance and;

b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

5. **Adverse Impact**

The permittee shall take all reasonable steps to minimize any adverse impact to the Buffalo Sewerage System resulting from noncompliance with any discharge limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

6. **Waste Residuals**

Solids, sludges, filter backwash or other pollutants removed in the course of treatment or control of wastewaters and/or the treatment of intake waters, shall be disposed of in a manner such as to prevent any pollutant from such materials from entering the Buffalo Sewer System.

7. **Power Failures**

In order to maintain compliance with the discharge limitations and prohibitions of this permit, the permittee shall provide an alternative power source sufficient to operate the wastewater control facilities; or, if such alternative power source is not provided the permittee shall halt, reduce or otherwise control production and/or controlled discharges upon the loss of power to the wastewater control facilities.

8. **Treatment Upsets**

a. Any industrial user which experiences an upset in operations that places it in a temporary state of noncompliance, which is not the result of operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation, shall inform the Industrial Waste Section immediately upon becoming aware of the upset. Where such information is given verbally, a written report shall be filed by the user within five (5) days. The report shall contain:

(i) A description of the upset, its cause(s) and impact on the discharger's compliance status;

(ii) The duration of noncompliance, including exact dates and times of noncompliance, and if the non-compliance is continuing, the time by which compliance is reasonably expected to be restored;

(iii) All steps taken or planned to reduce, eliminate, and prevent recurrence of such an upset.

b. An industrial user which complies with the notification provisions of this Section in a timely manner shall have an affirmative defense to any enforcement action brought by the Industrial Waste Section for any noncompliance of the limits in this permit, which arises out of violations attributable to and alleged to have occurred during the period of the documented and verified upset.

9. **Treatment Bypasses**

a. A bypass of the treatment system is prohibited unless the following conditions are met:

(i) The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; or

(ii) There was no feasible alternative to the bypass, including the use of auxiliary treatment or retention of the wastewater; and

(iii) The industrial user properly notified the Industrial Waste Section as described in paragraph b. below.

b. Industrial users must provide immediate notice to the Industrial Waste Section upon discovery of an unanticipated bypass. If necessary, the Industrial Waste Section may require the industrial user to submit a written report explaining the cause(s), nature, and duration of the bypass, and the steps being taken to prevent it's recurrence.

c. An industrial user may allow a bypass to occur which does not cause pretreatment standards or requirements to be violated, but only if it is for essential maintenance to ensure efficient operation of the treatment system. Industrial users anticipating a bypass must submit notice to the Industrial Waste Section at least ten (10) days in advance. The Industrial Waste Section may only approve the anticipated bypass if the circumstances satisfy those set forth in paragraph a. above.

C. PERMITTEE RESPONSIBILITIES

1. Permit Availability

The originally signed permit must be available upon request at all times for review at the address stated on the first page of this permit.

2. Inspections

The permittee shall allow the General Manager of the Buffalo Sewer Authority and/or his authorized representatives, upon the presentation of credentials and during normal working hours or at any other reasonable times, to have access to and copy any records required in this permit; and to sample any discharge of pollutants.

3. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities for which this permit has been issued the permit shall become null and void. The succeeding owner shall submit a completed Buffalo Sewer Authority permit application prior to discharge to the sewer system.

D. PERMITTEE LIABILITIES

1. Permit Modification

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to the following:

a. Violation of any terms or conditions of this permit,

b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts,

c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

2. Imminent Danger

In the event there exists an imminent danger to health or property, the permitter reserves the right to take immediate action to halt the permitted discharge to the sewerage works.

3. **Civil and Criminal Liability**

Nothing in this permit shall relieve the permittee from any requirements, liabilities, or penalties under provisions of the "Sewer Regulations of the Buffalo Sewer Authority" or any Federal, State and/or local laws or regulations.

E. NATIONAL PRETREATMENT STANDARDS

If a pretreatment standard or prohibition (including any Schedule of Compliance specified in such pretreatment standard or prohibition) is established under Section 307 (b) of the Act for a pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with such pretreatment standard or prohibition.

F. PLANT CLOSURE

In the event of plant closure, the permittee is required to notify the Industrial Waste Section in writing as soon as an anticipated closure date is determined, but in no case later than five days of the actual closure.

G. CONFIDENTIALITY

Except for data determined to be confidential under Section 308 of the Act, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Buffalo Sewer Authority. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Act.

H. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

Fax

Phone: (716) 883-1820
Fax: (716) 883-3789

To: Dave Jones

Of: Bflo. Color Corp

Fax: 827-4717

Phone:

Pages: 2, including this cover sheet.

Date: 1/13/00

Dave:
We made a language change on page 3 of your permit, per comments made by US EPA. If we don't hear from you by Mon. 1/17/00, your permit will be finalized.

Jim Knight

From the desk of...

Buffalo Sewer Authority
90 W. FERRY , FT OF W. FERRY
Buffalo, NY 14213

PART I: SPECIFIC CONDITIONS

A. DISCHARGE LIMITATIONS & MONITORING REQUIREMENTS (continued)

If the loading of any of the following parameters sampled at location 002 cannot be determined to be in compliance due to elevated limits of detection in the analytical method(s) for such contaminant, sample points 003 & 004 must be sampled instead

The daily maximum and monthly average discharge limitations for the following parameters are the combined total mass based on the combined average flow of 334,000 gpd for SP003 & SP004 and the concentration limits as stated in 40 CFR Part 414.111:

Sample Point	Parameter	Discharge Limitations					Sampling Requirements	
		Daily Max.		Mo. Avg.		M.A.I.D.	Type	Frequency
		ug/L	Lbs.	ug/L	Lbs.	mg/L		
002	1,1-Dichloroethane	59	0.164	22	0.061		Grab	Quarterly
	1,1-Dichloroethylene	60	0.167	22	0.061		Grab	Quarterly
	1,1,1-Trichloroethane	59	0.164	22	0.061		Grab	Quarterly
	1,1,2-Trichloroethane	127	0.354	32	0.089		Grab	Quarterly
	1,2-Dichlorobenzene	794	2.212	196	0.546		Grab	Quarterly
	1,2-Dichloroethane	574	1.599	180	0.501		Grab	Quarterly
	1,2-Dichloropropane	794	2.212	196	0.546		Grab	Quarterly
	1,2-Trans-Dichloroethylene	66	0.184	180	0.070		Grab	Quarterly
	1,2,4-Trichlorobenzene	10	0.028	10	0.028	0.8	Composite	Quarterly
	1,3-Dichlorobenzene	380	1.059	142	0.396		Grab	Quarterly
	1,3-Dichloropropylene	794	2.212	196	0.546		Grab	Quarterly
	1,4-Dichlorobenzene	380	1.059	142	0.396		Grab	Quarterly
	2-Nitrophenol	231	0.643	65	0.181		Composite	Quarterly
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	Anthracene	47	0.131	19	0.053		Composite	Quarterly
	Benzene	134	0.373	57	0.159		Grab	Quarterly
	Bis (2-ethylhexyl)phthalate	258	0.719	95	0.265		Composite	Quarterly
	Carbon Tetrachloride	380	1.059	142	0.396		Grab	Quarterly
	Chlorobenzene	380	1.059	142	0.396		Grab	Quarterly
	Chloroethane	295	0.822	110	0.306		Grab	Quarterly
	Chloroform	325	0.905	111	0.309	8.5	Grab	Quarterly
	Di-ethylphthalate	113	0.315	46	0.128		Composite	Quarterly
	Di-methylphthalate	47	0.131	19	0.053		Composite	Quarterly
	Di-n-butylphthalate	43	0.120	20	0.056		Composite	Quarterly
	Ethylbenzene	380	1.059	142	0.396		Grab	Quarterly
	Fluoranthene	54	0.150	22	0.061	0.1	Composite	Quarterly

APPENDIX F

COST ESTIMATES FOR
CORRECTIVE MEASURES ALTERNATIVES

APPENDIX F-1

COST ESTIMATES FOR CORRECTIVE MEASURES ALTERNATIVES

Remedial Alternatives
Cost Estimate Summary Tables

REMEDIAL ALTERNATIVES
AREA ABCE ESTIMATED COSTS
BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

ALTERNATIVE 1 - Area A Ground Water Extraction System, Institutional Controls, Groundwater Monitoring, Repair Sheet Piling Breach (Area E), Area A Bank Erosion Control

CAPITAL COST ITEMS (1)(2)	TOTAL COST
Area A Groundwater Extraction System	$288,607
Institutional Controls	$25,440
Repair Sheet Piling Area E	$14,500
Area A Erosion Control	$177,871
Total	**$506,418**

O & M COST ITEMS (1)	UNIT	YEARS INCURRED	ANNUAL O&M COSTS	PRESENT WORTH COSTS (3)
Groundwater Monitoring (Analytical / Reporting)	Ea. yr.	1-30	$42,580	$645,181
Area A Groundwater Extraction System	Ea. yr.	1-30	$17,577	$266,330
Groundwater Discharge to BSA	Ea. yr.	1-30	$26,569	$402,579
Area A Retaining Wall Survey	Ea. yr.	1-30	$3,600	$54,548
Former Lagoons Cap Maintenance	Ea. yr.	1-30	$960	$14,546
Total	**Ea. yr.**	**1-30**	**$91,286**	**$1,383,184**

PRESENT WORTH TOTAL COST **$1,889,602**

NOTES:
(1) Refer to individual cost sheets for costs/assumptions.
(2) Capital costs include engineering design and CQA costs.
(3) Based upon a 5% interest rate for a 30-year O&M period. P/A factor = 15.1522
(4) Assumes off-site disposal of soils and debris.

REMEDIAL ALTERNATIVES
AREA ABCE ESTIMATED COSTS
BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

ALTERNATIVE 1A - Area A Ground Water Extraction System, Institutional Controls, Groundwater Monitoring, Repair Sheet Piling Breach (Area E), Area A Bank Erosion Control
Installation of Area A Groundwater Barrier

CAPITAL COST ITEMS (1)(2)	TOTAL COST
Area A Groundwater Extraction System	$288,607
Area A Grout Barrier	$1,627,119
Institutional Controls	$25,440
Repair Sheet Piling Area E	$14,500
Area A Erosion Control	$177,871
Total	**$2,133,537**

O & M COST ITEMS (1)	UNIT	YEARS INCURRED	ANNUAL O&M COSTS	PRESENT WORTH COSTS (3)
Groundwater Monitoring (Analytical / Reporting)	Ea. yr.	1-30	$42,580	$645,181
Area A Groundwater Extraction System	Ea. yr.	1-30	$17,577	$266,330
Groundwater Discharge to BSA	Ea. yr.	1-30	$17,828	$270,133
Area A Retaining Wall Survey	Ea. yr.	1-30	$3,600	$54,548
Former Lagoons Cap Maintenance	Ea. yr.	1-30	$960	$14,546
Total	**Ea. yr.**	**1-30**	**$82,545**	**$1,250,738**

PRESENT WORTH TOTAL COST **$3,384,275**

NOTES:
(1) Refer to individual cost sheets for costs/assumptions.
(2) Capital costs include engineering design and CQA costs.
(3) Based upon a 5% interest rate for a 30-year O&M period. P/A factor = 15.1522
(4) Assumes off-site disposal of soils and debris.

REMEDIAL ALTERNATIVES
AREA ABCE ESTIMATED COSTS
BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

ALTERNATIVE 2A - Area A Ground Water Extraction System, Institutional Controls, Groundwater Monitoring, Repair Sheet Piling Breach (Area E), Area A Bank Erosion Control Area BCE Ground Water Extraction System
Area BCE Extraction Wells

CAPITAL COST ITEMS (1)(2)	TOTAL COST
Area A Groundwater Extraction System	$288,607
Area BCE Extraction Wells	$729,835
Institutional Controls	$25,440
Repair Sheet Piling Area E	$14,500
Area A Erosion Control	$177,871
Total	**$1,236,253**

O & M COST ITEMS (1)	UNIT	YEARS INCURRED	ANNUAL O&M COSTS	PRESENT WORTH COSTS (3)
Groundwater Monitoring (Analytical / Reporting)	Ea. yr.	1-30	$42,580	$645,181
Area A Groundwater Extraction System	Ea. yr.	1-30	$17,577	$266,330
Groundwater Discharge to BSA	Ea. yr.	1-30	$26,569	$402,579
Area BCE Groundwater Extraction Wells	Ea. yr.	1-30	$9,584	$145,219
Area A Retaining Wall Survey	Ea. yr.	1-30	$3,600	$54,548
Former Lagoons Cap Maintenance	Ea. yr.	1-30	$960	$14,546
Total	**Ea. yr.**	**1-30**	**$100,870**	**$1,528,403**

PRESENT WORTH TOTAL COST **$2,764,656**

NOTES:
(1) Refer to individual cost sheets for costs/assumptions.
(2) Capital costs include engineering design and CQA costs.
(3) Based upon a 5% interest rate for a 30-year O&M period. P/A factor = 15.1522
(4) Assumes off-site disposal of soils and debris.

REMEDIAL ALTERNATIVES
AREA ABCE ESTIMATED COSTS
BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

ALTERNATIVE 2B - Area A Ground Water Extraction System, Institutional Controls, Groundwater Monitoring, Repair Sheet Piling Breach (Area E), Area A Bank Erosion Control Area BCE Ground Water Extraction System
Area BCE Extraction Trenches

CAPITAL COST ITEMS (1)(2)	TOTAL COST
Area A Groundwater Extraction System	$288,607
Area BCE Extraction Trenches	$775,683
Institutional Controls	$25,440
Repair Sheet Piling Area E	$14,500
Area A Erosion Control	$177,871
Total	**$1,282,101**

O & M COST ITEMS (1)	UNIT	YEARS INCURRED	ANNUAL O&M COSTS	PRESENT WORTH COSTS (3)
Groundwater Monitoring (Analytical / Reporting)	Ea. yr.	1-30	$42,580	$645,181
Area A Groundwater Extraction System	Ea. yr.	1-30	$17,577	$266,330
Groundwater Discharge to BSA	Ea. yr.	1-30	$26,569	$402,579
Area BCE Extraction Trenches	Ea. yr.	1-30	$9,584	$145,219
Area A Retaining Wall Survey	Ea. yr.	1-30	$3,600	$54,548
Former Lagoons Cap Maintenance	Ea. yr.	1-30	$960	$14,546
Total	**Ea. yr.**	**1-30**	**$100,870**	**$1,528,403**

PRESENT WORTH TOTAL COST **$2,810,504**

NOTES:
(1) Refer to individual cost sheets in Appendix B for costs/assumptions.
(2) Capital costs include engineering design and CQA costs.
(3) Based upon a 5% interest rate for a 30-year O&M period. P/A factor = 15.1522
(4) Assumes off-site disposal of soils and debris.

REMEDIAL ALTERNATIVES
AREA ABCE ESTIMATED COSTS
BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

ALTERNATIVE 2C - Area A Ground Water Extraction System, Institutional Controls, Groundwater Monitoring, Repair Sheet Piling Breach (Area E), Area A Bank Erosion Control Area BCE Ground Water Extraction System
Extraction Wells in Area B and Collection Trench in Area C/E

CAPITAL COST ITEMS (1)(2)	TOTAL COST
Area A Groundwater Extraction System	$288,607
Area B Extraction Wells; Area C/E Trench	$819,336
Institutional Controls	$25,440
Repair Sheet Piling Area E	$14,500
Area A Erosion Control	$177,871
Total	**$1,325,754**

O & M COST ITEMS (1)	UNIT	YEARS INCURRED	ANNUAL O&M COSTS	PRESENT WORTH COSTS (3)
Groundwater Monitoring (Analytical / Reporting)	Ea. yr.	1-30	$42,580	$645,181
Area A Groundwater Extraction System	Ea. yr.	1-30	$17,577	$266,330
Groundwater Discharge to BSA	Ea. yr.	1-30	$26,569	$402,579
Area B Extraction Wells; Area C/E Trench	Ea. yr.	1-30	$9,584	$145,219
Area A Retaining Wall Survey	Ea. yr.	1-30	$3,600	$54,548
Former Lagoons Cap Maintenance	Ea. yr.	1-30	$960	$14,546
Total	**Ea. yr.**	**1-30**	**$100,870**	**$1,528,403**

PRESENT WORTH TOTAL COST **$2,854,157**

NOTES:
(1) Refer to individual cost sheets in Appendix B for costs/assumptions.
(2) Capital costs include engineering design and CQA costs.
(3) Based upon a 5% interest rate for a 30-year O&M period. P/A factor = 15.1522
(4) Assumes off-site disposal of soils and debris.

REMEDIAL ALTERNATIVES
AREA ABCE ESTIMATED COSTS
BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

ALTERNATIVE 3 - Area A Ground Water Extraction System, Institutional Controls, Groundwater Monitoring, Repair Sheet Piling Breach (Area E), Area A Bank Erosion Control Soil Capping

CAPITAL COST ITEMS (1)(2)	TOTAL COST
Area A Groundwater Extraction System	$288,607
Institutional Controls	$25,440
Repair Sheet Piling Area E	$14,500
Area A Erosion Control	$177,871
Soil Capping	$604,637
Total	**$1,111,055**

O & M COST ITEMS (1)	UNIT	YEARS INCURRED	ANNUAL O&M COSTS	PRESENT WORTH COSTS (3)
Groundwater Monitoring (Analytical / Reporting)	Ea. yr.	1-30	$42,580	$645,181
Area A Groundwater Extraction System	Ea. yr.	1-30	$17,577	$266,330
Groundwater Discharge to BSA	Ea. yr.	1-30	$26,569	$402,579
Area A Retaining Wall Survey	Ea. yr.	1-30	$3,600	$54,548
Former Lagoons Cap and Asphalt Cap Maintenance	Ea. yr.	1-30	$14,543	$220,358
Total	**Ea. yr.**	**1-30**	**$104,869**	**$1,588,996**

PRESENT WORTH TOTAL COST **$2,700,051**

NOTES:
(1) Refer to individual cost sheets in Appendix B for costs/assumptions.
(2) Capital costs include engineering design and CQA costs.
(3) Based upon a 5% interest rate for a 30-year O&M period. P/A factor = 15.1522
(4) Assumes off-site disposal of soils and debris.

REMEDIAL ALTERNATIVES
AREA ABCE ESTIMATED COSTS
BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

ALTERNATIVE 3A- Area A Ground Water Extraction System, Institutional Controls, Groundwater Monitoring, Repair Sheet Piling Breach (Area E), Area A Bank Erosion Control, Soil *Installation of Area A Groundwater Barrier*

CAPITAL COST ITEMS (1)(2)	TOTAL COST
Area A Groundwater Extraction System	$288,607
Area A Grout Barrier	$1,627,119
Institutional Controls	$25,440
Repair Sheet Piling Area E	$14,500
Area A Erosion Control	$177,871
Soil Capping	$604,637
Total	**$2,738,174**

O & M COST ITEMS (1)	UNIT	YEARS INCURRED	ANNUAL O&M COSTS	PRESENT WORTH COSTS (3)
Groundwater Monitoring (Analytical / Reporting)	Ea. yr.	1-30	$42,580	$645,181
Area A Groundwater Extraction System	Ea. yr.	1-30	$17,577	$266,330
Groundwater Discharge to BSA	Ea. yr.	1-30	$17,828	$270,133
Area A Retaining Wall Survey	Ea. yr.	1-30	$3,600	$54,548
Former Lagoons Cap and Asphalt Cap Maintenance	Ea. yr.	1-30	$14,543	$220,358
Total	**Ea. yr.**	**1-30**	**$96,128**	**$1,456,550**

PRESENT WORTH TOTAL COST **$4,194,724**

NOTES:
(1) Refer to individual cost sheets in Appendix B for costs/assumptions.
(2) Capital costs include engineering design and CQA costs.
(3) Based upon a 5% interest rate for a 30-year O&M period. P/A factor = 15.1522
(4) Assumes off-site disposal of soils and debris.

REMEDIAL ALTERNATIVES
AREA ABCE ESTIMATED COSTS
BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

ALTERNATIVE 4A - Area A Ground Water Extraction System, Institutional Controls, Groundwater Monitoring, Repair Sheet Piling Breach (Area E), Area A Bank Erosion Control Area BCE Ground Water Extraction System, Soil Capping
Area BCE Extraction Wells

CAPITAL COST ITEMS (1)(2)	TOTAL COST
Area A Groundwater Extraction System	$288,607
Area BCE Extraction Wells	$729,835
Institutional Controls	$25,440
Repair Sheet Piling Area E	$14,500
Area A Erosion Control	$177,871
Soil Capping	$604,637
Total	**$1,840,890**

O & M COST ITEMS (1)	UNIT	YEARS INCURRED	ANNUAL O&M COSTS	PRESENT WORTH COSTS (3)
Groundwater Monitoring (Analytical / Reporting)	Ea. yr.	1-30	$42,580	$645,181
Area A Groundwater Extraction System	Ea. yr.	1-30	$17,577	$266,330
Groundwater Discharge to BSA	Ea. yr.	1-30	$26,569	$402,579
Area BCE Groundwater Extraction Wells	Ea. yr.	1-30	$9,584	$145,219
Area A Retaining Wall Survey	Ea. yr.	1-30	$3,600	$54,548
Former Lagoons Cap and Asphalt Cap Maintenance	Ea. yr.	1-30	$14,543	$220,358
Total	**Ea. yr.**	**1-30**	**$114,453**	**$1,734,215**

PRESENT WORTH TOTAL COST **$3,575,105**

NOTES:
(1) Refer to individual cost sheets in Appendix B for costs/assumptions.
(2) Capital costs include engineering design and CQA costs.
(3) Based upon a 5% interest rate for a 30-year O&M period. P/A factor = 15.1522
(4) Assumes off-site disposal of soils and debris.

REMEDIAL ALTERNATIVES
AREA ABCE ESTIMATED COSTS
BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

ALTERNATIVE 4B - Area A Ground Water Extraction System, Institutional Controls, Groundwater Monitoring, Repair Sheet Piling Breach (Area E), Area A Bank Erosion Control Area BCE Ground Water Extraction System, Soil Capping *Area BCE Extraction Trenches*

CAPITAL COST ITEMS (1)(2)	TOTAL COST
Area A Groundwater Extraction System	$288,607
Area BCE Extraction Trenches	$775,683
Institutional Controls	$25,440
Repair Sheet Piling Area E	$14,500
Area A Erosion Control	$177,871
Soil Capping	$604,637
Total	**$1,886,738**

O & M COST ITEMS (1)	UNIT	YEARS INCURRED	ANNUAL O&M COSTS	PRESENT WORTH COSTS (3)
Groundwater Monitoring (Analytical / Reporting)	Ea. yr.	1-30	$42,580	$645,181
Area A Groundwater Extraction System	Ea. yr.	1-30	$17,577	$266,330
Groundwater Discharge to BSA	Ea. yr.	1-30	$26,569	$402,579
Area BCE Extraction Trenches	Ea. yr.	1-30	$9,584	$145,219
Area A Retaining Wall Survey	Ea. yr.	1-30	$3,600	$54,548
Former Lagoons Cap and Asphalt Cap Maintenance	Ea. yr.	1-30	$14,543	$220,358
Total	**Ea. yr.**	**1-30**	**$114,453**	**$1,734,215**

PRESENT WORTH TOTAL COST **$3,620,953**

NOTES:
(1) Refer to individual cost sheets in Appendix B for costs/assumptions.
(2) Capital costs include engineering design and CQA costs.
(3) Based upon a 5% interest rate for a 30-year O&M period. P/A factor = 15.1522
(4) Assumes off-site disposal of soils and debris.

REMEDIAL ALTERNATIVES
AREA ABCE ESTIMATED COSTS
BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

ALTERNATIVE 4C - Area A Ground Water Extraction System, Institutional Controls, Groundwater Monitoring, Repair Sheet Piling Breach (Area E), Area A Bank Erosion Control Area BCE Ground Water Extraction System, Soil Capping
Extraction Wells in Area B and Collection Trench in Area C/E

CAPITAL COST ITEMS (1)(2)	TOTAL COST
Area A Groundwater Extraction System	$288,607
Area B Extraction Wells; Area C/E Trench	$819,336
Institutional Controls	$25,440
Repair Sheet Piling Area E	$14,500
Area A Erosion Control	$177,871
Soil Capping	$604,637
Total	**$1,930,391**

O & M COST ITEMS (1)	UNIT	YEARS INCURRED	ANNUAL O&M COSTS	PRESENT WORTH COSTS (3)
Groundwater Monitoring (Analytical / Reporting)	Ea. yr.	1-30	$42,580	$645,181
Area A Groundwater Extraction System	Ea. yr.	1-30	$17,577	$266,330
Groundwater Discharge to BSA	Ea. yr.	1-30	$26,569	$402,579
Area B Extraction Wells; Area C/E Trench	Ea. yr.	1-30	$9,584	$145,219
Area A Retaining Wall Survey	Ea. yr.	1-30	$3,600	$54,548
Former Lagoons Cap and Asphalt Cap Maintenance	Ea. yr.	1-30	$14,543	$220,358
Total	**Ea. yr.**	**1-30**	**$114,453**	**$1,734,215**

PRESENT WORTH TOTAL COST **$3,664,606**

NOTES:
(1) Refer to individual cost sheets in Appendix B for costs/assumptions.
(2) Capital costs include engineering design and CQA costs.
(3) Based upon a 5% interest rate for a 30-year O&M period. P/A factor = 15.1522
(4) Assumes off-site disposal of soils and debris.

SUMMARY
REMEDIAL ALTERNATIVES
AREA ABCE COST COMPARISON
BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

REMEDIAL ALTERNATIVE	30 YEAR PRESENT WORTH TOTAL COST
ALTERNATIVE 1	$1,889,602
ALTERNATIVE 1A	$3,384,275
ALTERNATIVE 2A	$2,764,656
ALTERNATIVE 2B	$2,810,504
ALTERNATIVE 2C	$2,854,157
ALTERNATIVE 3	$2,700,051
ALTERNATIVE 3A	$4,194,724
ALTERNATIVE 4A	$3,575,105
ALTERNATIVE 4B	$3,620,953
ALTERNATIVE 4C	$3,664,606

Assumes off site soil/debris disposal

ALTERNATIVE 2A	$2,810,326
ALTERNATIVE 2B	$2,584,056
ALTERNATIVE 2C	$2,670,721
ALTERNATIVE 4A	$3,620,775
ALTERNATIVE 4B	$3,394,505
ALTERNATIVE 4C	$3,481,170

Assumes CAMU soil/debris disposal

REMEDIAL ALTERNATIVES
AREA A ESTIMATED COSTS
BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Area D Waste Water Treatment Plant
Expansion for Area A Groundwater
(Without Area A Grout Barrier)

CAPITAL COST ITEMS (2)	TOTAL COST
Treatment Plant Expansion	$476,500
Additional Treatability Study	$5,000
Contingency (5%)	$23,500
Total	**$505,000**

O & M COST ITEMS (1)	UNIT	YEARS INCURRED	ANNUAL O&M COSTS	PRESENT WORTH COSTS (3)
Expanded Treatment Plant	Ea. yr.	1-30	$597,648	$9,055,682
Total	**Ea. yr.**	**1-30**	**$597,648**	**$9,055,682**

PRESENT WORTH TOTAL COST **$9,560,682**

NOTES:
(1) Assumes 30 gpm flow; $0.03/gallon treatment costs (from Allied Signal Inc.).
(2) Capital costs include engineering design and CQA costs.
(3) Based upon a 5% interest rate for a 30-year O&M period. P/A factor = 15.1522

REMEDIAL ALTERNATIVES
AREA A ESTIMATED COSTS
BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Discharge of Groundwater to BSA Sewer (Without Area A Grout Barrier)

CAPITAL COST ITEMS (2)	TOTAL COST
Existing VT Tanks Retrofit	$10,000
Contingency (25%)	$2,500
Total	**$12,500**

O & M COST ITEMS (1)	UNIT	YEARS INCURRED	ANNUAL O&M COSTS	PRESENT WORTH COSTS (3)
Discharge to BSA Sewer	Ea. yr.	1-30	$26,569	$402,579
Total	**Ea. yr.**	**1-30**	**$26,569**	**$402,579**

PRESENT WORTH TOTAL COST **$415,079**

NOTES:
(1) Assumes 30 gpm flow; $0.00077/gallon treatment costs based on current BSA charge of $0.77/1000 gallons.
(2) Capital costs include engineering design and CQA costs.
(3) Based upon a 5% interest rate for a 30-year O&M period. P/A factor = 15.1522

REMEDIAL ALTERNATIVES
AREA ABCE ESTIMATED COSTS
BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

CAMU SOIL DISPOSAL

ALTERNATIVE 2A - Area A Ground Water Extraction System, Institutional Controls, Groundwater Monitoring, Repair Sheet Piling Breach (Area E), Area A Bank Erosion Control Area BCE Ground Water Extraction System *Area BCE Extraction Wells*

CAPITAL COST ITEMS (1)(2)	TOTAL COST
Area A Groundwater Extraction System	$288,607
Area BCE Extraction Wells	$649,317
CAMU	$108,293
Institutional Controls	$25,440
Repair Sheet Piling Area E	$14,500
Area A Erosion Control	$177,871
Total	**$1,264,028**

O & M COST ITEMS (1)	UNIT	YEARS INCURRED	ANNUAL O&M COSTS	PRESENT WORTH COSTS (3)
Groundwater Monitoring (Analytical / Reporting)	Ea. yr.	1-30	$42,580	$645,181
Area A Groundwater Extraction System	Ea. yr.	1-30	$17,577	$266,330
Groundwater Discharge to BSA	Ea. yr.	1-30	$26,569	$402,579
Area BCE Groundwater Extraction Wells	Ea. yr.	1-30	$9,584	$145,219
Area A Retaining Wall Survey	Ea. yr.	1-30	$3,600	$54,548
CAMU Cap Maintenance	Ea. yr.	1-30	$1,181	$17,895
Former Lagoons Cap Maintenance	Ea. yr.	1-30	$960	$14,546
Total	**Ea. yr.**	**1-30**	**$102,051**	**$1,546,298**

PRESENT WORTH TOTAL COST **$2,810,326**

NOTES:
(1) Refer to individual cost sheets for costs/assumptions.
(2) Capital costs include engineering design and CQA costs.
(3) Based upon a 5% interest rate for a 30-year O&M period. P/A factor = 15.1522
(4) Assumes on-site disposal of soils in CAMU and off site disposal of debris.

REMEDIAL ALTERNATIVES
AREA ABCE ESTIMATED COSTS
BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

CAMU SOIL DISPOSAL

ALTERNATIVE 2B - Area A Ground Water Extraction System, Institutional Controls, Groundwater Monitoring, Repair Sheet Piling Breach (Area E), Area A Bank Erosion Control Area BCE Ground Water Extraction System
Area BCE Extraction Trenches

CAPITAL COST ITEMS (1)(2)	TOTAL COST
Area A Groundwater Extraction System	$288,607
Area BCE Extraction Trenches	$423,047
CAMU	$108,293
Institutional Controls	$25,440
Repair Sheet Piling Area E	$14,500
Area A Erosion Control	$177,871
Total	**$1,037,758**

O & M COST ITEMS (1)	UNIT	YEARS INCURRED	ANNUAL O&M COSTS	PRESENT WORTH COSTS (3)
Groundwater Monitoring (Analytical / Reporting)	Ea. yr.	1-30	$42,580	$645,181
Area A Groundwater Extraction System	Ea. yr.	1-30	$17,577	$266,330
Groundwater Discharge to BSA	Ea. yr.	1-30	$26,569	$402,579
Area BCE Extraction Trenches	Ea. yr.	1-30	$9,584	$145,219
Area A Retaining Wall Survey	Ea. yr.	1-30	$3,600	$54,548
CAMU Cap Maintenance	Ea. yr.	1-30	$1,181	$17,895
Former Lagoons Cap Maintenance	Ea. yr.	1-30	$960	$14,546
Total	**Ea. yr.**	**1-30**	**$102,051**	**$1,546,298**

PRESENT WORTH TOTAL COST **$2,584,056**

NOTES:
(1) Refer to individual cost sheets in Appendix B for costs/assumptions.
(2) Capital costs include engineering design and CQA costs.
(3) Based upon a 5% interest rate for a 30-year O&M period. P/A factor = 15.1522
(4) Assumes on-site disposal of soils in CAMU and off site disposal of debris.

REMEDIAL ALTERNATIVES
AREA ABCE ESTIMATED COSTS
BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

CAMU SOIL DISPOSAL

ALTERNATIVE 2C - Area A Ground Water Extraction System, Institutional Controls, Groundwater Monitoring, Repair Sheet Piling Breach (Area E), Area A Bank Erosion Control Area BCE Ground Water Extraction System
Extraction Wells in Area B and Collection Trench in Area C/E

CAPITAL COST ITEMS (1)(2)	TOTAL COST
Area A Groundwater Extraction System	$288,607
Area B Extraction Wells; Area C/E Trench	$509,712
CAMU	$108,293
Institutional Controls	$25,440
Repair Sheet Piling Area E	$14,500
Area A Erosion Control	$177,871
Total	**$1,124,423**

O & M COST ITEMS (1)	UNIT	YEARS INCURRED	ANNUAL O&M COSTS	PRESENT WORTH COSTS (3)
Groundwater Monitoring (Analytical / Reporting)	Ea. yr.	1-30	$42,580	$645,181
Area A Groundwater Extraction System	Ea. yr.	1-30	$17,577	$266,330
Groundwater Discharge to BSA	Ea. yr.	1-30	$26,569	$402,579
Area B Extraction Wells; Area C/E Trench	Ea. yr.	1-30	$9,584	$145,219
Area A Retaining Wall Survey	Ea. yr.	1-30	$3,600	$54,548
CAMU Cap Maintenance	Ea. yr.	1-30	$1,181	$17,895
Former Lagoons Cap Maintenance	Ea. yr.	1-30	$960	$14,546
Total	**Ea. yr.**	**1-30**	**$102,051**	**$1,546,298**

PRESENT WORTH TOTAL COST **$2,670,721**

NOTES:
(1) Refer to individual cost sheets in Appendix B for costs/assumptions.
(2) Capital costs include engineering design and CQA costs.
(3) Based upon a 5% interest rate for a 30-year O&M period. P/A factor = 15.1522
(4) Assumes on-site disposal of soils in CAMU and off site disposal of debris.

REMEDIAL ALTERNATIVES
AREA ABCE ESTIMATED COSTS
BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

CAMU SOIL DISPOSAL

ALTERNATIVE 4A - Area A Ground Water Extraction System, Institutional Controls, Groundwater Monitoring, Repair Sheet Piling Breach (Area E), Area A Bank Erosion Control Area BCE Ground Water Extraction System, Soil Capping *Area BCE Extraction Wells*

CAPITAL COST ITEMS (1)(2)	TOTAL COST
Area A Groundwater Extraction System	$288,607
Area BCE Extraction Wells	$649,317
CAMU	$108,293
Institutional Controls	$25,440
Repair Sheet Piling Area E	$14,500
Area A Erosion Control	$177,871
Soil Capping	$604,637
Total	**$1,868,665**

O & M COST ITEMS (1)	UNIT	YEARS INCURRED	ANNUAL O&M COSTS	PRESENT WORTH COSTS (3)
Groundwater Monitoring (Analytical / Reporting)	Ea. yr.	1-30	$42,580	$645,181
Area A Groundwater Extraction System	Ea. yr.	1-30	$17,577	$266,330
Groundwater Discharge to BSA	Ea. yr.	1-30	$26,569	$402,579
Area BCE Groundwater Extraction Wells	Ea. yr.	1-30	$9,584	$145,219
Area A Retaining Wall Survey	Ea. yr.	1-30	$3,600	$54,548
CAMU Cap Maintenance	Ea. yr.	1-30	$1,181	$17,895
Former Lagoons Cap and Asphalt Cap Maintenance	Ea. yr.	1-30	$14,543	$220,358
Total	**Ea. yr.**	**1-30**	**$115,634**	**$1,752,110**

PRESENT WORTH TOTAL COST **$3,620,775**

NOTES:
(1) Refer to individual cost sheets in Appendix B for costs/assumptions.
(2) Capital costs include engineering design and CQA costs.
(3) Based upon a 5% interest rate for a 30-year O&M period. P/A factor = 15.1522
(4) Assumes on-site disposal of soils in CAMU and off site disposal of debris.

REMEDIAL ALTERNATIVES
AREA ABCE ESTIMATED COSTS
BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

CAMU SOIL DISPOSAL

ALTERNATIVE 4B - Area A Ground Water Extraction System, Institutional Controls, Groundwater Monitoring, Repair Sheet Piling Breach (Area E), Area A Bank Erosion Control Area BCE Ground Water Extraction System, Soil Capping *Area BCE Extraction Trenches*

CAPITAL COST ITEMS (1)(2)	TOTAL COST
Area A Groundwater Extraction System	$288,607
Area BCE Extraction Trenches	$423,047
CAMU	$108,293
Institutional Controls	$25,440
Repair Sheet Piling Area E	$14,500
Area A Erosion Control	$177,871
Soil Capping	$604,637
Total	**$1,642,395**

O & M COST ITEMS (1)	UNIT	YEARS INCURRED	ANNUAL O&M COSTS	PRESENT WORTH COSTS (3)
Groundwater Monitoring (Analytical / Reporting)	Ea. yr.	1-30	$42,580	$645,181
Area A Groundwater Extraction System	Ea. yr.	1-30	$17,577	$266,330
Groundwater Discharge to BSA	Ea. yr.	1-30	$26,569	$402,579
Area BCE Extraction Trenches	Ea. yr.	1-30	$9,584	$145,219
Area A Retaining Wall Survey	Ea. yr.	1-30	$3,600	$54,548
CAMU Cap Maintenance	Ea. yr.	1-30	$1,181	$17,895
Former Lagoons Cap and Asphalt Cap Maintenance	Ea. yr.	1-30	$14,543	$220,358
Total	**Ea. yr.**	**1-30**	**$115,634**	**$1,752,110**

PRESENT WORTH TOTAL COST **$3,394,505**

NOTES:
(1) Refer to individual cost sheets in Appendix B for costs/assumptions.
(2) Capital costs include engineering design and CQA costs.
(3) Based upon a 5% interest rate for a 30-year O&M period. P/A factor = 15.1522
(4) Assumes on-site disposal of soils in CAMU and off site disposal of debris.

REMEDIAL ALTERNATIVES
AREA ABCE ESTIMATED COSTS
BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

CAMU SOIL DISPOSAL

ALTERNATIVE 4C - Area A Ground Water Extraction System, Institutional Controls, Groundwater Monitoring, Repair Sheet Piling Breach (Area E), Area A Bank Erosion Control Area BCE Ground Water Extraction System, Soil Capping
Extraction Wells in Area B and Collection Trench in Area C/E

CAPITAL COST ITEMS (1)(2)	TOTAL COST
Area A Groundwater Extraction System	$288,607
Area B Extraction Wells; Area C/E Trench	$509,712
CAMU	$108,293
Institutional Controls	$25,440
Repair Sheet Piling Area E	$14,500
Area A Erosion Control	$177,871
Soil Capping	$604,637
Total	**$1,729,060**

O & M COST ITEMS (1)	UNIT	YEARS INCURRED	ANNUAL O&M COSTS	PRESENT WORTH COSTS (3)
Groundwater Monitoring (Analytical / Reporting)	Ea. yr.	1-30	$42,580	$645,181
Area A Groundwater Extraction System	Ea. yr.	1-30	$17,577	$266,330
Groundwater Discharge to BSA	Ea. yr.	1-30	$26,569	$402,579
Area B Extraction Wells; Area C/E Trench	Ea. yr.	1-30	$9,584	$145,219
Area A Retaining Wall Survey	Ea. yr.	1-30	$3,600	$54,548
CAMU Cap Maintenance	Ea. yr.	1-30	$1,181	$17,895
Former Lagoons Cap and Asphalt Cap Maintenance	Ea. yr.	1-30	$14,543	$220,358
Total	**Ea. yr.**	**1-30**	**$115,634**	**$1,752,110**

PRESENT WORTH TOTAL COST **$3,481,170**

NOTES:
(1) Refer to individual cost sheets in Appendix B for costs/assumptions.
(2) Capital costs include engineering design and CQA costs.
(3) Based upon a 5% interest rate for a 30-year O&M period. P/A factor = 15.1522
(4) Assumes on-site disposal of soils in CAMU and off site disposal of debris.

APPENDIX F-2

COST ESTIMATES FOR CORRECTIVE MEASURES ALTERNATIVES

Remedial Alternatives
Detailed Cost Estimates

AREA A
CONTAINMENT ALTERNATIVE 1
COLLECTION BY EXTRACTION WELLS
OFFSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate		Site ID:	Buffalo Color		
		Technology/Process:	Area A Extraction Wells		
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Well Extraction System					
Rubber Tire Backhoe (header excavation)		6.00	239	CY	1,434
Submersible Pump 1/2 hp 4-13 gpm		1,320.00	5	Each	6,600
Pump Electrical/Mechanical Controls		15,000.00	5	Each	75,000
In-vault plumbing/flowmeter/valving/controls		3,000.00	5	Each	15,000
Precast Pump Vault		2,500.00	5	Each	12,500
Drill Rig Mob/demob		1,000.00	1	Each	1,000
12" Borehole		24.00	160	LF	3,840
6" PVC Riser Pipe - installed		24.00	95	LF	2,280
6" PVC Well Screen - installed		24.00	65	LF	1,560
Extraction system performance monitoring piezometers		1,000.00	5	Each	5,000
Disposal of soil (90% of excavated material) - hazardous	**	79.80	6.5	Ton	519
Disposal of debris (10% of excavated material) - haz	**	79.80	0.5	CY	40
Transportation of excavated material	**	20.00	7.2	Ton	144
Soil Testing for disposal (3)		600.00	1	Sample	600
Transfer and Storage System					
W.L. Sensor Float Switch		200.00	2	Each	400
Check valve		300.00	2	Each	600
Flow meter		2,000.00	1	Each	2,000
Electrical/Mechanical Controls		1,000.00	1	Each	1,000
2" HDPE Force Main Carrier Pipe		5.50	1,075	LF	5,913
4" HDPE Force Main Containment Pipe		8.00	1,075	LF	8,600
Heat Tracing		7.00	100	LF	700
Existing VT tanks (two) retrofit		5,000.00	2	Each	10,000

AREA A
CONTAINMENT ALTERNATIVE 1
COLLECTION BY EXTRACTION WELLS
OFFSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate		Site ID:	Buffalo Color		
		Technology/Process:	Area A Extraction Wells		
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Contractor Field Office & Facilities					
Trailer		500.00	6	Month	3,000
Water & Electricity		500.00	6	Month	3,000
Portable Toilets (2)		400.00	6	Month	2,400
Telephones/Fax		500.00	6	Month	3,000
Health & Safety and Decontamination					
Decon Pad Installation		2,500.00	1	LS	2,500
Decon Pad O&M		250.00	6	Month	1,500
H&S Disposables		1,000.00	6	Month	6,000
Mobilization/Demobilization					
Equipment		2,500.00	1	LS	2,500
Personnel		2,500.00	1	LS	2,500
Work Plans		2,500.00	1	LS	2,500
Bonds & Insurance		5,000.00	1	LS	5,000
Permits		500.00	1	LS	500
Erosion Control					
Silt Fence (along misc. areas)		3.00	500	LF	1,500
Miscellaneous Site Restoration					
6" Topsoil, Seeding, and Mulching		11,800.00	1	AC	11,800
				TOTAL	$202,430

Notes:
Costs from contractor supplier estimates; Golder project related experience;
or from R.S Means Environmental Restoration Assemblies Cost Book, 1997.
** Disposal costs include 14% local disposal tax.

AREA A
CONTAINMENT ALTERNATIVE 1
COLLECTION BY EXTRACTION WELLS
OFFSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Task Summary		
	20% Contingency	30% Contingency
Well Extraction System		
Rubber Tire Backhoe (header excavation)		1,434
Submersible Pump 1/2 hp 4-13 gpm	6,600 *	
Pump Electrical/Mechanical Controls	75,000 *	
In-vault plumbing/flowmeter/valving/controls	15,000 *	
Precast Pump Vault	12,500	
Drill Rig Mob/demob	1,000 *	
12" Borehole		3,840 *
6" PVC Riser Pipe - installed	2,280 *	
6" PVC Well Screen - installed	1,560 *	
Extraction system performance monitoring piezometers		5,000 *
Soil Testing for disposal (3)	600 *	
Transfer and Storage System		
W.L. Sensor Float Switch	400	
Check valve	600	
Flow meter	2,000	
Electrical/Mechanical Controls	1,000	
2" HDPE Force Main Carrier Pipe	5,913	
4" HDPE Force Main Containment Pipe	8,600	
Heat Tracing	700	
Existing VT tanks retrofit	10,000 *	

AREA A
CONTAINMENT ALTERNATIVE 1
COLLECTION BY EXTRACTION WELLS
OFFSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Task Summary		
	20% Contingency	30% Contingency
Contractor Field Office & Facilities		
Trailer	3,000 *	
Water & Electricity	3,000 *	
Portable Toilets (2)	2,400 *	
Telephones/Fax	3,000 *	
Health & Safety and Decontamination		
Decon Pad Installation	2,500 *	
Decon Pad O&M	1,500 *	
H&S Disposables	6,000 *	
Mobilization/Demobilization		
Equipment	2,500 *	
Personnel	2,500 *	
Work Plans	2,500 *	
Bonds & Insurance	5,000 *	
Permits	500 *	
Erosion Control		
Silt Fence (along misc. areas)	1,500 *	
Miscellaneous Site Restoration		
6' Topsoil, Seeding, and Mulching	11,800 *	
Total for All Sites	$ 191,453	$ 10,274
Design/CQA (20%)	38,291	1,541
Overhead and Profit (15%)	4,757	215
Contingencies	38,291	3,082
Disposal of soil (90% of excavated material) - hazardous	519 **	
Disposal of debris (10% of excavated material) - haz	40 **	
Transportation of excavated material	144 **	
Task Subtotals	$ 273,495	$ 15,112

Total	$ 288,607

* Overhead and profit included in cost.
** Disposal costs include 14% local disposal tax.
CQA = Construction Quality Assurance.

AREA A
CONTAINMENT ALTERNATIVE 1
COLLECTION BY EXTRACTION WELLS
OPERATION AND MAINTENANCE
30 YEAR COSTS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate		Site ID:	Buffalo Color		
		Technology/Process:	Area A Extraction Wells		
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Well Extraction System					
Well casing / screen		1,224	1	EACH	1,224
Drilling		768	1	EACH	768
All well pumps		6,600	3	EACH	19,800
All automated controls		5,000	3	EACH	15,000
Transfer and Storage System					
Piping Replacement		108	14	LF	1,512
Electricity		5,250	30	year	157,500
Systems Inspections/Reporting		10,000	30	year	300,000
Subtotal					495,804
Contingencies (20%)					31,500
Task Total (30 years)					527,304
				Annual costs	$17,577

Notes:

Assumes replacement of one well over 30-year period.

Assumes replacement of all pumps and controls once every ten years; 10% of piping and electrical over 30 years.

Assumes 12 cents kilowatt hour rate.

ANNUAL OPERATION & MAINTENANCE COSTS
GROUNDWATER DISCHARGE TO BUFFALO SEWER AUTHORITY

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate	Site ID:	Buffalo Color			
	Technology/Process:	GW Discharge to BSA			
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Discharge without grout barrier in Area A					
@ 30gpm = 43,200/day x 365 days		0.00077	15,768,000	Gallon	12,141
Monitoring/Analytical/Reporting		10000	1	LS	10,000
Subtotal					22,141
Contingencies (20%)					4,428
Task Total without grout barrier					26,569
Discharge with grout barrier in Area A					
@ 12 gpm = 17,280/day x 365 days		0.00077	6,307,200	Gallon	4,857
Monitoring/Analytical/Reporting		10000	1	LS	10,000
Subtotal					14,857
Contingencies (20%)					2,971
Task Total with grout barrier					17,828

Notes:
Assume:
Flow rate of 30 gpm includes safety factor
Reduction of approximately 60% of groundwater flow with grout barrier based on modeling.
Discharge rate estimate from current Buffalo Color BSA discharge cost @ $0.77/1000 gal.

ANNUAL OPERATION & MAINTENANCE COSTS
GROUNDWATER TREATMENT IN AREA D TREATMENT PLANT
AND TREATED DISCHARGE TO BUFFALO RIVER

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate	Site ID:	Buffalo Color			
	Technology/Process:	GWTreatment through Area D GWTS			
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Discharge without grout barrier in Area A					
@ 30gpm = 43,200/day x 365 days		0.03	15,768,000	Gallon	473,040
Monitoring/Analytical/Reporting		25000	1	LS	25,000
Subtotal					498,040
Contingencies (20%)					99,608
Task Total					597,648
Discharge with grout barrier in Area A					
@ 12 gpm = 17,280/day x 365 days		0.03	6,307,200	Gallon	189,216
Monitoring/Analytical/Reporting		25000	1	LS	25,000
Subtotal					214,216
Contingencies (20%)					42,843
Task Total					257,059

Notes:
Assume:
Flow rate of 30 gpm includes safety factor
Reduction of approximately 60% of groundwater flow with grout barrier based on modeling.
Treatment cost based on Allied Signal Inc. estimate for Area A groundwater based on Area D O&M costs and Area A treatability study.
Assumes existing Area D GWTS would be used.

INSTITUTIONAL CONTROLS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate		Site ID:	Buffalo Color		
		Task:	Institutional Controls		
Item		Unit Cost	Quantity	Unit of Measure	Total Cost
Modify groundwater monitoring plan		$2,500	1	Each	$2,500
Excavation management plan		$1,500	1	Each	$1,500
Deed restriction preparation		$1,000	1	Each	$1,000
Site boundary survey		$6,200	1	Each	$6,200
RCRA Post closure permit modification		$5,000	1	Each	$5,000
BSA/SPDES permit modification		$2,500	1	Each	$2,500
ACOE permit		$2,500	1	Each	$2,500
Subtotal					21,200
Contingencies (20%)					4,240
Task Total					25,440

Notes:
Cost estimates based on similar project experience.

GROUNDWATER SAMPLE COLLECTION
TWO-YEAR MONITORING PERIOD

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate	Site ID:	Buffalo Color			
	Task:	Groundwater monitoring			
Item	Events Per 2 yrs.	Unit Cost	Quantity per Event	Unit of Measure	Total Cost
ANALYTICAL COSTS					
Confined Aquifer Samples (1)					
Volatile Organics	2	$95	8	Sample	$1,520
Semi-Volatile Organics	2	$220	8	Sample	$3,520
RCRA Metals	1	$90	8	Sample	$720
Inorganics	1	$54	8	Sample	$432
Shallow Aquifer Samples (2)					
Volatile Organics	4	$95	23	Sample	$8,740
Semi-Volatile Organics	4	$220	23	Sample	$20,240
RCRA Metals	2	$90	23	Sample	$4,140
Inorganics	2	$54	23	Sample	$2,484
SAMPLE COLLECTION COSTS					
Confined Aquifer Samples (1)					
Labor (8 hours x 2 men x 45/hr)	2	$720	1	Day	$1,440
Vehicle Cost	2	$65	1	Day	$130
Consumables	2	$10	8	Sample	$160
Shipping	2	$10	8	Sample	$160
Shallow Aquifer Samples (2)					
Labor (8 hours x 2 men x 45/hr)	4	$720	4	Day	$11,520
Vehicle Cost	4	$65	4	Day	$1,040
Consumables	4	$10	23	Sample	$920
Shipping	4	$10	23	Sample	$920
REPORTING COSTS					
Quarterly GW elev.-labor (8 hr x 45/hr)	8	360	1	Day	$2,880
Sampling summary report	4	$2,500	1	Report	$10,000
				TOTAL 2-YEAR COST	$70,966
				ANNUAL COST	$35,483

Notes:

1) Confined aquifer wells consist of R-01, R-04, RFI-16, RFI-19D, RFI-21D, and RFI-23D.
2) Shallow aquifer wells consist of RFI-PZ-17, RFI-PZ-18, RFI-PZ-19, RFI-17, RFI-18, RFI-20 RFI-22, RFI-24, RFI-25, RFI-27, RFI-28, RFI-29, RFI-30, RFI-32, RFI-33, RFI-34, RFI-35, RFI-36, RFI-42, RFI-45, and RFI-51.
3) Sample quantity per event includes 1 duplicate and 1 MS/MSD per aquifer type.
4) Trip blanks will be included at no extra cost.
5) Costs from local contractor or Golder estimates.

GROUNDWATER SAMPLE COLLECTION
TWO-YEAR MONITORING PERIOD

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Task Summary	
ANALYTICAL COSTS	
Confined Aquifer Samples (1)	
Volatile Organics	1,520
Semi-Volatile Organics	3,520
RCRA Metals	720
Inorganics	432
Shallow Aquifer Samples (2)	
Volatile Organics	8,740
Semi-Volatile Organics	20,240
RCRA Metals	4,140
Inorganics	2,484
SAMPLE COLLECTION COSTS	
Confined Aquifer Samples (1)	
Labor (8 hours x 2 men x 45/hr)	1,440
Vehicle Cost	130
Consumables	160
Shipping	160
Shallow Aquifer Samples (2)	
Labor (8 hours x 2 men x 45/hr)	11,520
Vehicle Cost	1,040
Consumables	920
Shipping	920
REPORTING COSTS	
Quarterly GW elev.-labor (8 hr x 45/hr)	2,880
Sampling summary report	10,000
Subtotal	$ 70,966
Design/CQA (15%)	0
Overhead and Profit (15%)	0
Contingencies (20%)	14,193
Task Totals (2-year costs)	$ 85,159
Task Totals (Annual)	$ 42,580

Cost from local contractor or Golder initial estimates; overhead and profit included in cost.

CQA = Construction Quality Assurance.

ANNUAL OPERATION & MAINTENANCE COSTS
AREA A RETAINING WALL SURVEY

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate	Site ID:	Buffalo Color			
	Technology/Process:	Surveying			
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Surveying/Reporting		3000	1	LS	3,000
Subtotal					3,000
Design/CQA					0
Contingencies (20%)					600
Task Total					3,600

Notes:
Assume:
Survey semi-annually, $1500/event

ANNUAL OPERATION & MAINTENANCE COSTS
AREA E FORMER LAGOONS CAP

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate	Site ID:	Buffalo Color			
	Technology/Process:	Cap O&M			
Assembly	Events per year	Unit Cost	Quantity	Unit of Measure	Total Cost
Mowing	2	110	3	acre	660
Inspection	1	35	4	hour	140
Subtotal					800
Design/CQA					0
Contingencies (20%)					160
Task Total					960

Notes:
Assume:
The cost of mowing is estimated at $110 per acre per mowing from similar project.
Cut and inspected 2 times/year.

AREA B, C, E
CONTAINMENT ALTERNATIVE 2A
COLLECTION BY EXTRACTION WELLS
OFFSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate		Site ID:	Buffalo Color		
		Technology/Process:	Extraction Wells		
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Well Extraction System					
Rubber Tire Backhoe (header excavation)		6.00	493	CY	2,958
Clean Soil Backfill and Placement		10.00	493	CY	4,930
Air Regulators/Gauges (well head)		275.00	60	Each	16,500
Air Regulators/Gauges (compressor)		235.00	1	Each	235
Air Aftercooler		530.00	1	Each	530
Air Compressor		20,000.00	1	Each	20,000
Dessicant Air Dryer		2,350.00	1	Each	2,350
Solenoid Pressure Dump Valve		135.00	1	Each	135
Pneumatic Pump		2,125.00	60	Each	127,500
Test borings, 4"		150.00	30	Each	4,500
36" Borehole		35.00	900	LF	31,500
4" PVC Riser Pipe		5.00	600	LF	3,000
4" PVC Well Screen		5.00	300	LF	1,500
Wellhead Vaults		475.00	60	Each	28,500
`ravel backfill 1/4"		22.00	236	CY	5,192
.ir/Discharge Tubing (jacketed)		6.40	900	LF	5,760
Fittings		5,000.00	1	total	5,000
Extraction system performance monitoring piezometers		1,000.00	5	Each	5,000
Disposal of soil (90% of excavated material) - hazardous	**	79.80	1,009	Ton	80,518
Disposal of debris (10% of excavated material) - haz	**	79.80	92	CY	7,342
Transportation of excavated material	**	20.00	1,121	Ton	22,420
2" PVC Compressed Air Manifold		3.00	2,220	LF	6,660
Soil Testing for disposal (3)		600.00	3	Comp Sample	1,800
Transfer and Storage System					
HDPE, 2' dia.,10' deep sump		1,500.00	1	Each	1,500
HDPE, 2' dia.,10' deep sump		1,500.00	1	Each	1,500
Submersible Transfer Pump 4-13 gpm <180' h		1,200.00	2	Each	2,400
W.L. Sensor Float Switch		200.00	2	Each	400
Check valve		300.00	2	Each	600
Flow meter		2,000.00	2	Each	4,000
Electrical/Mechanical Controls		5,000.00	2	Each	10,000
3" HDPE Gravity Drain		5.00	1,960	LF	9,800
2" HDPE Force Main Carrier Pipe		5.50	1,070	LF	5,885
4" HDPE Force Main Containment Pipe		8.00	1,070	LF	8,560
Heat Tracing		7.00	25	LF	175
Concrete Pad for Compressor Building		2.10	300	SF	630
Compressor Building		10,000.00	1	Each	10,000
Building and Piping Insulation		7,000.00	1	Each	7,000
Tank Retrofit Area E		25,000.00	1	Each	25,000

AREA B, C, E
CONTAINMENT ALTERNATIVE 2A
COLLECTION BY EXTRACTION WELLS
OFFSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate		Site ID:	Buffalo Color		
		Technology/Process:	Extraction Wells		
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Contractor Field Office & Facilities					
Trailer		500.00	6	Month	3,000
Water & Electricity		500.00	6	Month	3,000
Portable Toilets (2)		400.00	6	Month	2,400
Telephones/Fax		500.00	6	Month	3,000
Health & Safety and Decontamination					
Decon Pad Installation		5,000.00	1	LS	5,000
Decon Pad O&M		250.00	6	Month	1,500
H&S Disposables		1,000.00	6	Month	6,000
Mobilization/Demobilization					
Equipment		2,500.00	1	LS	2,500
Personnel		2,500.00	1	LS	2,500
Work Plans		2,500.00	1	LS	2,500
Bonds & Insurance		5,000.00	1	LS	5,000
Permits		500.00	1	LS	500
rosion Control					
ilt Fence (along misc. areas)		3.00	500	LF	1,500
Miscellaneous Site Restoration					
6' Topsoil, Seeding, and Mulching		11,800.00	1	AC	11,800
				TOTAL	$521,480

Notes:
Costs from contractor supplier estimates; Golder project related experience;
or from R.S Means Environmental Restoration Assemblies Cost Book, 1997.
** Disposal costs include 14% local disposal tax.

AREA B, C, E
CONTAINMENT ALTERNATIVE 2A
COLLECTION BY EXTRACTION WELLS
OFFSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Task Summary		
	20% Contingency	30% Contingency
Well Extraction System		
Rubber Tire Backhoe (header excavation)		2,958
Clean Soil Backfill and Placement	4,930	
Air Regulators/Gauges (well head)	16,500	
Air Regulators/Gauges (compressor)	235	
Air Aftercooler	530	
Air Compressor	20,000 *	
Dessicant Air Dryer	2,350	
Solenoid Pressure Dump Valve	135	
Pneumatic Pump	127,500	
Test borings, 4"		4,500 *
36" Borehole		31,500 *
4" PVC Riser Pipe	3,000	
4" PVC Well Screen	1,500	
Wellhead Vaults	28,500	
Gravel backfill 1/4"	5,192	
Air/Discharge Tubing (jacketed)	5,760	
Fittings	5,000	
Extraction system performance monitoring piezometers		5,000 *
2" PVC Compressed Air Manifold	6,660	
Soil Testing for disposal (3)	1,800 *	
Transfer and Storage System		
HDPE, 2' dia.,10' deep sump	1,500	
HDPE, 2' dia.,10' deep sump	1,500	
Submersible Transfer Pump 4-13 gpm <180' h	2,400	
W.L. Sensor Float Switch	400	
Check valve	600	
Flow meter	4,000	
Electrical/Mechanical Controls	10,000 *	
3" HDPE Gravity Drain	9,800	
2" HDPE Force Main Carrier Pipe	5,885	
4" HDPE Force Main Containment Pipe	8,560	
Heat Tracing	175	
Concrete Pad for Compressor Building	630	
Compressor Building	10,000	
Building and Piping Insulation	7,000	
Tank Retrofit Area E	25,000 *	

AREA B, C, E
CONTAINMENT ALTERNATIVE 2A
COLLECTION BY EXTRACTION WELLS
OFFSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Task Summary		
	20% Contingency	30% Contingency
Contractor Field Office & Facilities		
Trailer	3,000 *	
Water & Electricity	3,000 *	
Portable Toilets (2)	2,400 *	
Telephones/Fax	3,000 *	
Health & Safety and Decontamination		
Decon Pad Installation	5,000 *	
Decon Pad O&M	1,500 *	
H&S Disposables	6,000 *	
Mobilization/Demobilization		
Equipment	2,500 *	
Personnel	2,500 *	
Work Plans	2,500 *	
Bonds & Insurance	5,000 *	
Permits	500 *	
Erosion Control		
Silt Fence (along misc. areas)	1,500 *	
Miscellaneous Site Restoration		
6' Topsoil, Seeding, and Mulching	11,800 *	
Total for All Sites	$ 367,242	$ 43,958
Design/CQA (20%)	73,448	8,792
Overhead and Profit (15%)	39,036	444
Contingencies	73,448	13,187
Disposal of soil (90% of excavated material) - hazardous	80,518 **	
Disposal of debris (10% of excavated material) - hazardous	7,342 **	
Transportation of excavated material	22,420 **	
Task Subtotals	$ 663,454	$ 66,381

Task Total	$ 729,835

* Overhead and profit included in cost.
** Disposal costs include 14% local disposal tax.
CQA = Construction Quality Assurance.

AREA B, C, E
CONTAINMENT ALTERNATIVE 2A
COLLECTION BY EXTRACTION WELLS
ONSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate		Site ID:	Buffalo Color		
		Technology/Process:	Extraction Wells		
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Well Extraction System					
Rubber Tire Backhoe (header excavation)		6.00	493	CY	2,958
Clean Soil Backfill and Placement		10.00	493	CY	4,930
Air Regulators/Gauges (well head)		275.00	60	Each	16,500
Air Regulators/Gauges (compressor)		235.00	1	Each	235
Air Aftercooler		530.00	1	Each	530
Air Compressor		20,000.00	1	Each	20,000
Dessicant Air Dryer		2,350.00	1	Each	2,350
Solenoid Pressure Dump Valve		135.00	1	Each	135
Pneumatic Pump		2,125.00	60	Each	127,500
Test borings, 4"		150.00	30	Each	4,500
36" Borehole		35.00	900	LF	31,500
4" PVC Riser Pipe		5.00	600	LF	3,000
4" PVC Well Screen		5.00	300	LF	1,500
Wellhead Vaults		475.00	60	Each	28,500
Gravel backfill 1/4"		22.00	236	CY	5,192
Air/Discharge Tubing (jacketed)		6.40	900	LF	5,760
Fittings		5,000.00	1	total	5,000
Extraction system performance monitoring piezometers		1,000.00	5	Each	5,000
Disposal of soil (90% of excavated material) - hazardous	**	0.00	1,009	Ton	0
Disposal of debris (10% of excavated material) - haz	**	79.80	92	CY	7,342
Transportation of excavated material	**	20.00	1,121	Ton	22,420
2" PVC Compressed Air Manifold		3.00	2,220	LF	6,660
Soil Testing for disposal (3)		600.00	3	Comp Sample	1,800
Transfer and Storage System					
HDPE, 2' dia.,10' deep sump		1,500.00	1	Each	1,500
HDPE, 2' dia.,10' deep sump		1,500.00	1	Each	1,500
Submersible Transfer Pump 4-13 gpm <180' h		1,200.00	2	Each	2,400
W.L. Sensor Float Switch		200.00	2	Each	400
Check valve		300.00	2	Each	600
Flow meter		2,000.00	2	Each	4,000
Electrical/Mechanical Controls		5,000.00	2	Each	10,000
3" HDPE Gravity Drain		5.00	1,960	LF	9,800
2" HDPE Force Main Carrier Pipe		5.50	1,070	LF	5,885
4" HDPE Force Main Containment Pipe		8.00	1,070	LF	8,560
Heat Tracing		7.00	25	LF	175
Concrete Pad for Compressor Building		2.10	300	SF	630
Compressor Building		10,000.00	1	Each	10,000
Building and Piping Insulation		7,000.00	1	Each	7,000
Tank Retrofit Area E		25,000.00	1	Each	25,000

AREA B, C, E
CONTAINMENT ALTERNATIVE 2A
COLLECTION BY EXTRACTION WELLS
ONSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate		Site ID:	Buffalo Color		
		Technology/Process:	Extraction Wells		
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Contractor Field Office & Facilities					
Trailer		500.00	6	Month	3,000
Water & Electricity		500.00	6	Month	3,000
Portable Toilets (2)		400.00	6	Month	2,400
Telephones/Fax		500.00	6	Month	3,000
Health & Safety and Decontamination					
Decon Pad Installation		5,000.00	1	LS	5,000
Decon Pad O&M		250.00	6	Month	1,500
H&S Disposables		1,000.00	6	Month	6,000
Mobilization/Demobilization					
Equipment		2,500.00	1	LS	2,500
Personnel		2,500.00	1	LS	2,500
Work Plans		2,500.00	1	LS	2,500
Bonds & Insurance		5,000.00	1	LS	5,000
Permits		500.00	1	LS	500
rosion Control					
ilt Fence (along misc. areas)		3.00	500	LF	1,500
Miscellaneous Site Restoration					
6' Topsoil, Seeding, and Mulching		11,800.00	1	AC	11,800
				TOTAL	$440,962

Notes:
Costs from contractor supplier estimates; Golder project related experience;
or from R.S Means Environmental Restoration Assemblies Cost Book, 1997.
** Disposal costs include 14% local disposal tax.

AREA B, C, E
CONTAINMENT ALTERNATIVE 2A
COLLECTION BY EXTRACTION WELLS
ONSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Task Summary		
	20% Contingency	30% Contingency
Well Extraction System		
Rubber Tire Backhoe (header excavation)		2,958
Clean Soil Backfill and Placement	4,930	
Air Regulators/Gauges (well head)	16,500	
Air Regulators/Gauges (compressor)	235	
Air Aftercooler	530	
Air Compressor	20,000 *	
Dessicant Air Dryer	2,350	
Solenoid Pressure Dump Valve	135	
Pneumatic Pump	127,500	
Test borings, 4"		4,500 *
36" Borehole		31,500 *
4" PVC Riser Pipe	3,000	
4" PVC Well Screen	1,500	
Wellhead Vaults	28,500	
Gravel backfill 1/4"	5,192	
Air/Discharge Tubing (jacketed)	5,760	
Fittings	5,000	
Extraction system performance monitoring piezometers		5,000 *
2" PVC Compressed Air Manifold	6,660	
Soil Testing for disposal (3)	1,800 *	
Transfer and Storage System		
HDPE, 2' dia.,10' deep sump	1,500	
HDPE, 2' dia.,10' deep sump	1,500	
Submersible Transfer Pump 4-13 gpm <180' h	2,400	
W.L. Sensor Float Switch	400	
Check valve	600	
Flow meter	4,000	
Electrical/Mechanical Controls	10,000 *	
3" HDPE Gravity Drain	9,800	
2" HDPE Force Main Carrier Pipe	5,885	
4" HDPE Force Main Containment Pipe	8,560	
Heat Tracing	175	
Concrete Pad for Compressor Building	630	
Compressor Building	10,000	
Building and Piping Insulation	7,000	
Tank Retrofit Area E	25,000 *	

AREA B, C, E
CONTAINMENT ALTERNATIVE 2A
COLLECTION BY EXTRACTION WELLS
ONSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Task Summary		
	20% Contingency	30% Contingency
Contractor Field Office & Facilities		
Trailer	3,000 *	
Water & Electricity	3,000 *	
Portable Toilets (2)	2,400 *	
Telephones/Fax	3,000 *	
Health & Safety and Decontamination		
Decon Pad Installation	5,000 *	
Decon Pad O&M	1,500 *	
H&S Disposables	6,000 *	
Mobilization/Demobilization		
Equipment	2,500 *	
Personnel	2,500 *	
Work Plans	2,500 *	
Bonds & Insurance	5,000 *	
Permits	500 *	
Erosion Control		
Silt Fence (along misc. areas)	1,500 *	
Miscellaneous Site Restoration		
6' Topsoil, Seeding, and Mulching	11,800 *	
Total for All Sites	$ 367,242	$ 43,958
Design/CQA (20%)	73,448	8,792
Overhead and Profit (15%)	39,036	444
Contingencies	73,448	13,187
Disposal of soil (90% of excavated material) - hazardous	0 *	
Disposal of debris (10% of excavated material) - hazardous	7,342 *	
Transportation of excavated material	22,420 *	
Task Subtotals	$ 582,936	$ 66,381

Task Total	$ 649,317

* Overhead and profit included in cost.
** Disposal costs include 14% local disposal tax.
CQA = Construction Quality Assurance.

AREA B, C, E
CONTAINMENT ALTERNATIVE 2B
COLLECTION BY ENHANCED PERMEABILITY TRENCH
OFFSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate		Site ID:	Buffalo Color		
		Technology/Process:	Trench Unit		
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Trench					
Surface Clearing Bulldozer		4.50	1,745	CY	7,853
Cat 235, 1.5 CY, Soil/Sand, Trenching		4.50	2,280	CY	10,260
Clean Soil Backfill and Placement		10.00	1,745	CY	17,450
Spoils Placement		1.00	436	CY	436
Stone Backfill 1/2"-3/4"		22.00	1,844	CY	40,568
16 oz/yd Geotextile, Non-woven		0.50	6,290	SY	3,145
Disposal of soil (90% of excavated material) - hazardous	**	79.80	4,419	Ton	352,636
Disposal of debris (10% of excavated material) - haz	**	79.80	404	CY	32,239
Transportation of excavated material	**	20.00	4,910	Ton	98,200
Soil Testing for disposal (3)		600.00	3	Comp Sample	1,800
Sub-Surface Piping					
HDPE, 2' dia.,15' deep sump		2,000.00	1	Each	2,000
HDPE, 2' dia.,20' deep sump		2,500.00	1	Each	2,500
Submersible Transfer Pump 4-13 gpm <180' h		1,200.00	2	Each	2,400
W.L. Sensor Float Switch		200.00	2	Each	400
Check valve		300.00	2	Each	600
Flow meter		2,000.00	2	Each	4,000
Electrical/Mechanical Controls		5,000.00	2	Each	10,000
2" HDPE Force Main Carrier Pipe		5.50	700	LF	3,850
4" HDPE Force Main Containment Pipe		8.00	700	LF	5,600
Building and Piping Insulation		7,000.00	1	Each	7,000
Existing Tank Retrofit Area E		25,000.00	1	Each	25,000

AREA B, C, E
CONTAINMENT ALTERNATIVE 2B
COLLECTION BY ENHANCED PERMEABILITY TRENCH
OFFSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate		Site ID:	Buffalo Color		
		Technology/Process:	Trench Unit		
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Contractor Field Office & Facilities					
Trailer		500.00	6	Month	3,000
Water & Electricity		500.00	6	Month	3,000
Portable Toilets (2)		400.00	6	Month	2,400
Telephones/Fax		500.00	6	Month	3,000
Health & Safety and Decontamination					
Decon Pad Installation		5,000.00	1	LS	5,000
Decon Pad O&M		250.00	6	Month	1,500
H&S Disposables		1,000.00	6	Month	6,000
Mobilization/Demobilization					
Equipment		2,500.00	1	LS	2,500
Personnel		2,500.00	1	LS	2,500
Work Plans		2,500.00	1	LS	2,500
Bonds & Insurance		5,000.00	1	LS	5,000
Permits		500.00	1	LS	500
Erosion Control					
Silt Fence (along misc. areas)		3.00	500	LF	1,500
Miscellaneous Site Restoration					
6' Topsoil, Seeding, and Mulching		11,800.00	1	AC	11,800
					$678,137

Notes:
Costs from contractor supplier estimates; Golder project related experience;
or from R.S Means Environmental Restoration Assemblies Cost Book, 1997.
** Disposal costs include 14% local disposal tax.

AREA B, C, E
CONTAINMENT ALTERNATIVE 2B
COLLECTION BY ENHANCED PERMEABILITY TRENCH
OFFSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Task Summary		
	20% Contingency	30% Contingency
Trench		
Surface Clearing Bulldozer		7,853
Cat 235, 1.5 CY, Soil/Sand, Trenching		10,260
Clean Soil Backfill and Placement	17,450	
Spoils Placement	436	
Stone Backfill 1/2"-3/4"	40,568	
16 oz/yd Geotextile, Non-woven	3,145	
Soil Testing for disposal (3)	1,800 *	
Sub-Surface Piping		
HDPE, 2' dia.,15' deep sump	2,000	
HDPE, 2' dia.,20' deep sump	2,500	
Submersible Transfer Pump 4-13 gpm <180' h	2,400	
W.L. Sensor Float Switch	400	
Check valve	600	
Flow meter	4,000	
Electrical/Mechanical Controls	10,000	
2" HDPE Force Main Carrier Pipe	3,850	
4" HDPE Force Main Containment Pipe	5,600	
Building and Piping Insulation	7,000	
Existing Tank Retrofit Area E	25,000 *	

AREA B, C, E
CONTAINMENT ALTERNATIVE 2B
COLLECTION BY ENHANCED PERMEABILITY TRENCH
OFFSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Task Summary		
	20% Contingency	30% Contingency
Contractor Field Office & Facilities		
Trailer	3,000 *	
Water & Electricity	3,000 *	
Portable Toilets (2)	2,400 *	
Telephones/Fax	3,000 *	
Health & Safety and Decontamination		
Decon Pad Installation	5,000 *	
Decon Pad O&M	1,500 *	
H&S Disposables	6,000 *	
Mobilization/Demobilization		
Equipment	2,500 *	
Personnel	2,500 *	
Work Plans	2,500 *	
Bonds & Insurance	5,000 *	
Permits	500 *	
Erosion Control		
Silt Fence (along misc. areas)	1,500 *	
Miscellaneous Site Restoration		
6' Topsoil, Seeding, and Mulching	11,800 *	
Total for All Sites	$ 176,949	$ 18,113
Design/CQA (20%)	35,390	3,623
Overhead and Profit (15%)	14,992	2,717
Contingencies	35,390	5,434
Disposal of soil (90% of excavated material) - hazardous	352,636 **	
Disposal of debris (10% of excavated material) - haz	32,239 **	
Transportation of excavated material	98,200 **	
Task Subtotals	$ 745,796	$ 29,887

Total	$ 775,683

* Overhead and profit included in cost.
** Disposal costs include 14% local disposal tax.
CQA = Construction Quality Assurance.

AREA B, C, E
CONTAINMENT ALTERNATIVE 2B
COLLECTION BY ENHANCED PERMEABILITY TRENCH
ONSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate		Site ID:	Buffalo Color		
		Technology/Process:	Trench Unit		
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Trench					
Surface Clearing Bulldozer		4.50	1,745	CY	7,853
Cat 235, 1.5 CY, Soil/Sand, Trenching		4.50	2,280	CY	10,260
Clean Soil Backfill and Placement		10.00	1,745	CY	17,450
Spoils Placement		1.00	436	CY	436
Stone Backfill 1/2"-3/4"		22.00	1,844	CY	40,568
16 oz/yd Geotextile, Non-woven		0.50	6,290	SY	3,145
Disposal of soil (90% of excavated material) - hazardous	**	0.00	4,419	Ton	0
Disposal of debris (10% of excavated material) - haz	**	79.80	404	CY	32,239
Transportation of excavated material	**	20.00	4,910	Ton	98,200
Soil Testing for disposal (3)		600.00	3	Comp Sample	1,800
Sub-Surface Piping					
HDPE, 2' dia.,15' deep sump		2,000.00	1	Each	2,000
HDPE, 2' dia.,20' deep sump		2,500.00	1	Each	2,500
Submersible Transfer Pump 4-13 gpm <180' h		1,200.00	2	Each	2,400
W.L. Sensor Float Switch		200.00	2	Each	400
Check valve		300.00	2	Each	600
Flow meter		2,000.00	2	Each	4,000
Electrical/Mechanical Controls		5,000.00	2	Each	10,000
2" HDPE Force Main Carrier Pipe		5.50	700	LF	3,850
4" HDPE Force Main Containment Pipe		8.00	700	LF	5,600
Building and Piping Insulation		7,000.00	1	Each	7,000
Existing Tank Retrofit Area E		25,000.00	1	Each	25,000

AREA B, C, E
CONTAINMENT ALTERNATIVE 2B
COLLECTION BY ENHANCED PERMEABILITY TRENCH
ONSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate		Site ID:	Buffalo Color		
		Technology/Process:	Trench Unit		
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Contractor Field Office & Facilities					
Trailer		500.00	6	Month	3,000
Water & Electricity		500.00	6	Month	3,000
Portable Toilets (2)		400.00	6	Month	2,400
Telephones/Fax		500.00	6	Month	3,000
Health & Safety and Decontamination					
Decon Pad Installation		5,000.00	1	LS	5,000
Decon Pad O&M		250.00	6	Month	1,500
H&S Disposables		1,000.00	6	Month	6,000
Mobilization/Demobilization					
Equipment		2,500.00	1	LS	2,500
Personnel		2,500.00	1	LS	2,500
Work Plans		2,500.00	1	LS	2,500
Bonds & Insurance		5,000.00	1	LS	5,000
Permits		500.00	1	LS	500
Erosion Control					
Silt Fence (along misc. areas)		3.00	500	LF	1,500
Miscellaneous Site Restoration					
6' Topsoil, Seeding, and Mulching		11,800.00	1	AC	11,800
					$325,501

Notes:
Costs from contractor supplier estimates; Golder project related experience;
or from R.S Means Environmental Restoration Assemblies Cost Book, 1997.
** Disposal costs include 14% local disposal tax.

AREA B, C, E
CONTAINMENT ALTERNATIVE 2B
COLLECTION BY ENHANCED PERMEABILITY TRENCH
ONSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Task Summary		
	20% Contingency	30% Contingency
Trench		
Surface Clearing Bulldozer		7,853
Cat 235, 1.5 CY, Soil/Sand, Trenching		10,260
Clean Soil Backfill and Placement	17,450	
Spoils Placement	436	
Stone Backfill 1/2"-3/4"	40,568	
16 oz/yd Geotextile, Non-woven	3,145	
Soil Testing for disposal (3)	1,800 *	
Sub-Surface Piping		
HDPE, 2' dia.,15' deep sump	2,000	
HDPE, 2' dia.,20' deep sump	2,500	
Submersible Transfer Pump 4-13 gpm <180' h	2,400	
W.L. Sensor Float Switch	400	
Check valve	600	
Flow meter	4,000	
Electrical/Mechanical Controls	10,000	
2" HDPE Force Main Carrier Pipe	3,850	
4" HDPE Force Main Containment Pipe	5,600	
Building and Piping Insulation	7,000	
Existing Tank Retrofit Area E	25,000 *	

AREA B, C, E
CONTAINMENT ALTERNATIVE 2B
COLLECTION BY ENHANCED PERMEABILITY TRENCH
ONSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Task Summary

	20% Contingency	30% Contingency
Contractor Field Office & Facilities		
Trailer	3,000 *	
Water & Electricity	3,000 *	
Portable Toilets (2)	2,400 *	
Telephones/Fax	3,000 *	
Health & Safety and Decontamination		
Decon Pad Installation	5,000 *	
Decon Pad O&M	1,500 *	
H&S Disposables	6,000 *	
Mobilization/Demobilization		
Equipment	2,500 *	
Personnel	2,500 *	
Work Plans	2,500 *	
Bonds & Insurance	5,000 *	
Permits	500 *	
Erosion Control		
Silt Fence (along misc. areas)	1,500 *	
Miscellaneous Site Restoration		
6' Topsoil, Seeding, and Mulching	11,800 *	
Total for All Sites	$ 176,949	$ 18,113
Design/CQA (20%)	35,390	3,623
Overhead and Profit (15%)	14,992	2,717
Contingencies	35,390	5,434
Disposal of soil (90% of excavated material) - hazardous	0 **	
Disposal of debris (10% of excavated material) - haz	32,239 **	
Transportation of excavated material	98,200 **	
Task Subtotals	$ 393,160	$ 29,887

Total	$ 423,047

* Overhead and profit included in cost.
** Disposal costs include 14% local disposal tax.
CQA = Construction Quality Assurance.

AREA B, C, E
CONTAINMENT ALTERNATIVE 2C
COLLECTION BY EXTRACTION WELLS AND TRENCH COMBINATION
OFFSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate		Site ID:	Buffalo Color		
		Technology/Process:	Extraction Wells/Trench		
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Well Extraction System					
Rubber Tire Backhoe (header excavation)		6.00	129	CY	774
Clean Soil Backfill and Placement		10.00	129	CY	1,290
Air Regulators/Gauges (well head)		275.00	13	Each	3,575
Air Regulators/Gauges (compressor)		235.00	1	Each	235
Air Aftercooler		530.00	1	Each	530
Air Compressor (30 cfm)		5,000.00	1	Each	5,000
Dessicant Air Dryer		2,350.00	1	Each	2,350
Solenoid Pressure Dump Valve		135.00	1	Each	135
Pneumatic Pump		2,125.00	13	Each	27,625
Test borings, 4"		150.00	6	Each	900
36" Borehole		35.00	195	LF	6,825
4" PVC Riser Pipe		5.00	130	LF	650
4" PVC Well Screen		5.00	65	LF	325
Wellhead Vaults		475.00	13	Each	6,175
Gravel backfill 1/4"		22.00	51	CY	1,122
Air/Discharge Tubing (jacketed)		6.40	195	LF	1,248
Fittings		2,000.00	1	total	2,000
Extraction system performance monitoring piezometers		1,000.00	2	Each	2,000
Disposal of soil (90% of excavated material) - hazardous		79.80	248.0	Ton	19,790
Disposal of debris (10% of excavated material) - haz		79.80	22.0	CY	1,756
Transportation of excavated material		20.00	277	Ton	5,540
2" PVC Compressed Air Manifold		3.00	650	LF	1,950
Soil Testing for disposal (3)		600.00	3	Comp Sample	1,800
Well Transfer and Storage System					
HDPE, 2' dia.,10' deep sump		1,500.00	1	Each	1,500
Submersible Transfer Pump 4-13 gpm <180' h		1,200.00	1	Each	1,200
W.L. Sensor Float Switch		200.00	1	Each	200
Check valve		300.00	1	Each	300
Flow meter		2,000.00	1	Each	2,000
Electrical/Mechanical Controls		5,000.00	1	Each	5,000
3" HDPE Gravity Drain		5.00	500	LF	2,500
2" HDPE Force Main Carrier Pipe		5.50	150	LF	825
4" HDPE Force Main Containment Pipe		8.00	150	LF	1,200
Heat Tracing		7.00	25	LF	175
Concrete Pad for Compressor Building		2.10	300	SF	630
Compressor Building		10,000.00	1	Each	10,000
uilding and Piping Insulation		7,000.00	1	Each	7,000

AREA B, C, E
CONTAINMENT ALTERNATIVE 2C
COLLECTION BY EXTRACTION WELLS AND TRENCH COMBINATION
OFFSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate		Site ID:	Buffalo Color		
		Technology/Process:	Extraction Wells/Trench		
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Trench					
Surface Clearing Bulldozer		4.50	1,282	CY	5,769
Cat 235, 1.5 CY, Soil/Sand, Trenching		4.50	1,661	CY	7,475
Clean Soil Backfill and Placement		10.00	1,282	CY	12,820
Spoils Placement		1.00	321	CY	321
Stone Backfill 1/2"-3/4"		22.00	1,340	CY	29,480
16 oz/yd Geotextile, Non-woven		0.50	4,624	SY	2,312
Disposal of soil (90% of excavated material) - hazardous	**	79.80	3,632	Ton	289,834
Disposal of debris (10% of excavated material) - haz	**	79.80	314	CY	25,057
Transportation of excavated material	**	20.00	4,035	Ton	80,700
Soil Testing for disposal (3)		600.00	3	Comp Sample	1,800
Trench Sub-Surface Piping					
HDPE, 2' dia.,20' deep sump		2,500.00	1	Each	2,500
Submersible Transfer Pump 4-13 gpm <180' h		1,200.00	1	Each	1,200
W.L. Sensor Float Switch		200.00	1	Each	200
Check valve		300.00	1	Each	300
Flow meter		2,000.00	1	Each	2,000
Electrical/Mechanical Controls		5,000.00	1	Each	5,000
2" HDPE Force Main Carrier Pipe		5.50	600	LF	3,300
4" HDPE Force Main Containment Pipe		8.00	600	LF	4,800
Heat Tracing		7.00	25	LF	175
Building and Piping Insulation		7,000.00	1	Each	7,000
Existing Tank Retrofit Area E		25,000.00	1	Each	25,000
Contractor Field Office & Facilities					
Trailer		500.00	6	Month	3,000
Water & Electricity		500.00	6	Month	3,000
Portable Toilets (2)		400.00	6	Month	2,400
Telephones/Fax		500.00	6	Month	3,000
Health & Safety and Decontamination					
Decon Pad Installation		5,000.00	1	LS	5,000
Decon Pad O&M		250.00	6	Month	1,500
H&S Disposables		1,000.00	6	Month	6,000

AREA B, C, E
CONTAINMENT ALTERNATIVE 2C
COLLECTION BY EXTRACTION WELLS AND TRENCH COMBINATION
OFFSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate		Site ID:	Buffalo Color		
		Technology/Process:	Extraction Wells/Trench		
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Mobilization/Demobilization					
Equipment		2,500.00	1	LS	2,500
Personnel		2,500.00	1	LS	2,500
Work Plans		2,500.00	1	LS	2,500
Bonds & Insurance		5,000.00	1	LS	5,000
Permits		500.00	1	LS	500
Erosion Control					
Silt Fence (along misc. areas)		3.00	500	LF	1,500
Miscellaneous Site Restoration					
6' Topsoil, Seeding, and Mulching		11,800.00	1	AC	11,800
				TOTAL	$683,368

Notes:

Costs from contractor supplier estimates; Golder project related experience;
or from R.S Means Environmental Restoration Assemblies Cost Book, 1997.
** Disposal costs include 14% local disposal tax.

CONTAINMENT ALTERNATIVE 2C
COLLECTION BY EXTRACTION WELLS AND TRENCH COMBINATION
OFFSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Task Summary		
	20% Contingency	30% Contingency
Well Extraction System		
Rubber Tire Backhoe (header excavation)	774	
Clean Soil Backfill and Placement	1,290	
Air Regulators/Gauges (well head)	3,575	
Air Regulators/Gauges (compressor)	235	
Air Aftercooler	530	
Air Compressor (30 cfm)	5,000	
Dessicant Air Dryer	2,350	
Solenoid Pressure Dump Valve	135	
Pneumatic Pump	27,625	
Test borings, 4"		900 *
36" Borehole		6,825 *
4" PVC Riser Pipe	650	
4" PVC Well Screen	325	
Wellhead Vaults	6,175	
Gravel backfill 1/4"	1,122	
Air/Discharge Tubing (jacketed)	1,248	
Fittings	2,000	
Extraction system performance monitoring piezometers		2,000 *
2" PVC Compressed Air Manifold	1,950	
Soil Testing for disposal (3)	1,800 *	
Well Transfer and Storage System		
HDPE, 2' dia.,10' deep sump	1,500	
Submersible Transfer Pump 4-13 gpm <180' h	1,200 *	
W.L. Sensor Float Switch	200	
Check valve	300	
Flow meter	2,000	
Electrical/Mechanical Controls	5,000	
3" HDPE Gravity Drain	2,500	
2" HDPE Force Main Carrier Pipe	825	
4" HDPE Force Main Containment Pipe	1,200	
Heat Tracing	175	
Concrete Pad for Compressor Building	630	
Compressor Building	10,000	
Building and Piping Insulation	7,000	

CONTAINMENT ALTERNATIVE 2C
COLLECTION BY EXTRACTION WELLS AND TRENCH COMBINATION
OFFSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Task Summary		
	20% Contingency	30% Contingency
Trench		
Surface Clearing Bulldozer		5,769
Cat 235, 1.5 CY, Soil/Sand, Trenching		7,475
Clean Soil Backfill and Placement	12,820	
Spoils Placement	321	
Stone Backfill 1/2"-3/4"	29,480	
16 oz/yd Geotextile, Non-woven	2,312	
Soil Testing for disposal (3)	1,800 *	
Trench Sub-Surface Piping		
HDPE, 2' dia.,20' deep sump	2,500	
Submersible Transfer Pump 4-13 gpm <180' h	1,200	
W.L. Sensor Float Switch	200	
Check valve	300	
Flow meter	2,000	
Electrical/Mechanical Controls	5,000	
2" HDPE Force Main Carrier Pipe	3,300	
4" HDPE Force Main Containment Pipe	4,800	
Heat Tracing	175	
Building and Piping Insulation	7,000	
Existing Tank Retrofit Area E	25,000	
Contractor Field Office & Facilities		
Trailer	3,000 *	
Water & Electricity	3,000 *	
Portable Toilets (2)	2,400 *	
Telephones/Fax	3,000 *	
Health & Safety and Decontamination		
Decon Pad Installation	5,000 *	
Decon Pad O&M	1,500 *	
H&S Disposables	6,000 *	

CONTAINMENT ALTERNATIVE 2C
COLLECTION BY EXTRACTION WELLS AND TRENCH COMBINATION
OFFSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Task Summary		
	20% Contingency	30% Contingency
Mobilization/Demobilization		
Equipment	2,500 *	
Personnel	2,500 *	
Work Plans	2,500 *	
Bonds & Insurance	5,000 *	
Permits	500 *	
Erosion Control		
Silt Fence (along misc. areas)	1,500 *	
Miscellaneous Site Restoration		
6' Topsoil, Seeding, and Mulching	11,800 *	
Total for All Sites	$ 237,722	$ 22,969
Design/CQA (20%)	47,544	4,594
Overhead and Profit (15%)	27,408	1,987
Contingencies	47,544	6,891
Disposal of well soil (90% of excavated material) - haz	19,790 **	
Disposal of well debris (10% of excavated material) - haz	1,756 **	
Transportation of excavated material from wells	5,540 **	
Disposal of trench soil (90% of excavated material) - haz	289,834 **	
Disposal of trench debris (10% of excavated material) - haz	25,057 **	
Transportation of excavated material from trench	80,700 **	
Task Subtotals	$ 782,895	$ 36,441

Task Total	$ 819,336

* Overhead and profit included in cost.
** Disposal costs include 14% local disposal tax.
CQA = Construction Quality Assurance.

AREA B, C, E
CONTAINMENT ALTERNATIVE 2C
COLLECTION BY EXTRACTION WELLS AND TRENCH COMBINATION
ONSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate		Site ID:	Buffalo Color		
		Technology/Process:	Extraction Wells/Trench		
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Well Extraction System					
Rubber Tire Backhoe (header excavation)		6.00	129	CY	774
Clean Soil Backfill and Placement		10.00	129	CY	1,290
Air Regulators/Gauges (well head)		275.00	13	Each	3,575
Air Regulators/Gauges (compressor)		235.00	1	Each	235
Air Aftercooler		530.00	1	Each	530
Air Compressor (30 cfm)		5,000.00	1	Each	5,000
Dessicant Air Dryer		2,350.00	1	Each	2,350
Solenoid Pressure Dump Valve		135.00	1	Each	135
Pneumatic Pump		2,125.00	13	Each	27,625
Test borings, 4"		150.00	6	Each	900
36" Borehole		35.00	195	LF	6,825
'" PVC Riser Pipe		5.00	130	LF	650
₊" PVC Well Screen		5.00	65	LF	325
Wellhead Vaults		475.00	13	Each	6,175
Gravel backfill 1/4"		22.00	51	CY	1,122
Air/Discharge Tubing (jacketed)		6.40	195	LF	1,248
Fittings		2,000.00	1	total	2,000
Extraction system performance monitoring piezometers		1,000.00	2	Each	2,000
Disposal of soil (90% of excavated material) - hazardous	**	0.00	248.0	Ton	0
Disposal of debris (10% of excavated material) - haz	**	79.80	22.0	CY	1,756
Transportation of excavated material	**	20.00	277	Ton	5,540
2" PVC Compressed Air Manifold		3.00	650	LF	1,950
Soil Testing for disposal (3)		600.00	3	Comp Sample	1,800
Well Transfer and Storage System					
HDPE, 2' dia.,10' deep sump		1,500.00	1	Each	1,500
Submersible Transfer Pump 4-13 gpm <180' h		1,200.00	1	Each	1,200
W.L. Sensor Float Switch		200.00	1	Each	200
Check valve		300.00	1	Each	300
Flow meter		2,000.00	1	Each	2,000
Electrical/Mechanical Controls		5,000.00	1	Each	5,000
3" HDPE Gravity Drain		5.00	500	LF	2,500
2" HDPE Force Main Carrier Pipe		5.50	150	LF	825
4" HDPE Force Main Containment Pipe		8.00	150	LF	1,200
Heat Tracing		7.00	25	LF	175
Concrete Pad for Compressor Building		2.10	300	SF	630
Compressor Building		10,000.00	1	Each	10,000
uilding and Piping Insulation		7,000.00	1	Each	7,000

AREA B, C, E
CONTAINMENT ALTERNATIVE 2C
COLLECTION BY EXTRACTION WELLS AND TRENCH COMBINATION
ONSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate		Site ID:	Buffalo Color		
		Technology/Process:	Extraction Wells/Trench		
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Trench					
Surface Clearing Bulldozer		4.50	1,282	CY	5,769
Cat 235, 1.5 CY, Soil/Sand, Trenching		4.50	1,661	CY	7,475
Clean Soil Backfill and Placement		10.00	1,282	CY	12,820
Spoils Placement		1.00	321	CY	321
Stone Backfill 1/2"-3/4"		22.00	1,340	CY	29,480
16 oz/yd Geotextile, Non-woven		0.50	4,624	SY	2,312
Disposal of soil (90% of excavated material) - hazardous	**	0.00	3,632	Ton	0
Disposal of debris (10% of excavated material) - haz	**	79.80	314	CY	25,057
Transportation of excavated material	**	20.00	4,035	Ton	80,700
Soil Testing for disposal (3)		600.00	3	Comp Sample	1,800
Trench Sub-Surface Piping					
HDPE, 2' dia.,20' deep sump		2,500.00	1	Each	2,500
Submersible Transfer Pump 4-13 gpm <180' h		1,200.00	1	Each	1,200
W.L. Sensor Float Switch		200.00	1	Each	200
Check valve		300.00	1	Each	300
Flow meter		2,000.00	1	Each	2,000
Electrical/Mechanical Controls		5,000.00	1	Each	5,000
2" HDPE Force Main Carrier Pipe		5.50	600	LF	3,300
4" HDPE Force Main Containment Pipe		8.00	600	LF	4,800
Heat Tracing		7.00	25	LF	175
Building and Piping Insulation		7,000.00	1	Each	7,000
Existing Tank Retrofit Area E		25,000.00	1	Each	25,000
Contractor Field Office & Facilities					
Trailer		500.00	6	Month	3,000
Water & Electricity		500.00	6	Month	3,000
Portable Toilets (2)		400.00	6	Month	2,400
Telephones/Fax		500.00	6	Month	3,000
Health & Safety and Decontamination					
Decon Pad Installation		5,000.00	1	LS	5,000
Decon Pad O&M		250.00	6	Month	1,500
H&S Disposables		1,000.00	6	Month	6,000

AREA B, C, E
CONTAINMENT ALTERNATIVE 2C
COLLECTION BY EXTRACTION WELLS AND TRENCH COMBINATION
ONSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate		Site ID:	Buffalo Color		
		Technology/Process:	Extraction Wells/Trench		
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Mobilization/Demobilization					
Equipment		2,500.00	1	LS	2,500
Personnel		2,500.00	1	LS	2,500
Work Plans		2,500.00	1	LS	2,500
Bonds & Insurance		5,000.00	1	LS	5,000
Permits		500.00	1	LS	500
Erosion Control					
Silt Fence (along misc. areas)		3.00	500	LF	1,500
Miscellaneous Site Restoration					
6' Topsoil, Seeding, and Mulching		11,800.00	1	AC	11,800
				TOTAL	$373,744

Notes:

Costs from contractor supplier estimates; Golder project related experience;
or from R.S Means Environmental Restoration Assemblies Cost Book, 1997.
** Disposal costs include 14% local disposal tax.

AREA B, C, E
CONTAINMENT ALTERNATIVE 2C
COLLECTION BY EXTRACTION WELLS AND TRENCH COMBINATION
ONSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Task Summary		
	20% Contingency	30% Contingency
Well Extraction System		
Rubber Tire Backhoe (header excavation)	774	
Clean Soil Backfill and Placement	1,290	
Air Regulators/Gauges (well head)	3,575	
Air Regulators/Gauges (compressor)	235	
Air Aftercooler	530	
Air Compressor (30 cfm)	5,000	
Dessicant Air Dryer	2,350	
Solenoid Pressure Dump Valve	135	
Pneumatic Pump	27,625	
Test borings, 4"		900 *
36" Borehole		6,825 *
4" PVC Riser Pipe	650	
4" PVC Well Screen	325	
Wellhead Vaults	6,175	
Gravel backfill 1/4"	1,122	
Air/Discharge Tubing (jacketed)	1,248	
Fittings	2,000	
Extraction system performance monitoring piezometers		2,000 *
2" PVC Compressed Air Manifold	1,950	
Soil Testing for disposal (3)	1,800 *	
Well Transfer and Storage System		
HDPE, 2' dia.,10' deep sump	1,500	
Submersible Transfer Pump 4-13 gpm <180' h	1,200 *	
W.L. Sensor Float Switch	200	
Check valve	300	
Flow meter	2,000	
Electrical/Mechanical Controls	5,000	
3" HDPE Gravity Drain	2,500	
2" HDPE Force Main Carrier Pipe	825	
4" HDPE Force Main Containment Pipe	1,200	
Heat Tracing	175	
Concrete Pad for Compressor Building	630	
Compressor Building	10,000	
Building and Piping Insulation	7,000	

AREA B, C, E
CONTAINMENT ALTERNATIVE 2C
COLLECTION BY EXTRACTION WELLS AND TRENCH COMBINATION
ONSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Task Summary		
	20% Contingency	30% Contingency
Trench		
Surface Clearing Bulldozer		5,769
Cat 235, 1.5 CY, Soil/Sand, Trenching		7,475
Clean Soil Backfill and Placement	12,820	
Spoils Placement	321	
Stone Backfill 1/2"-3/4"	29,480	
16 oz/yd Geotextile, Non-woven	2,312	
Soil Testing for disposal (3)	1,800 *	
Trench Sub-Surface Piping		
HDPE, 2' dia.,20' deep sump	2,500	
Submersible Transfer Pump 4-13 gpm <180' h	1,200	
W.L. Sensor Float Switch	200	
Check valve	300	
Flow meter	2,000	
Electrical/Mechanical Controls	5,000	
2" HDPE Force Main Carrier Pipe	3,300	
4" HDPE Force Main Containment Pipe	4,800	
Heat Tracing	175	
Building and Piping Insulation	7,000	
Existing Tank Retrofit Area E	25,000	
Contractor Field Office & Facilities		
Trailer	3,000 *	
Water & Electricity	3,000 *	
Portable Toilets (2)	2,400 *	
Telephones/Fax	3,000 *	
Health & Safety and Decontamination		
Decon Pad Installation	5,000 *	
Decon Pad O&M	1,500 *	
H&S Disposables	6,000 *	

AREA B, C, E
CONTAINMENT ALTERNATIVE 2C
COLLECTION BY EXTRACTION WELLS AND TRENCH COMBINATION
ONSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Task Summary		
	20% Contingency	30% Contingency
Mobilization/Demobilization		
Equipment	2,500 *	
Personnel	2,500 *	
Work Plans	2,500 *	
Bonds & Insurance	5,000 *	
Permits	500 *	
Erosion Control		
Silt Fence (along misc. areas)	1,500 *	
Miscellaneous Site Restoration		
6' Topsoil, Seeding, and Mulching	11,800 *	
Total for All Sites	$ 237,722	$ 22,969
Design/CQA (20%)	47,544	4,594
Overhead and Profit (15%)	27,408	1,987
Contingencies	47,544	6,891
Disposal of well soil (90% of excavated material) - haz	0 *	
Disposal of well debris (10% of excavated material) - haz	1,756 *	
Transportation of excavated material from wells	5,540 *	
Disposal of trench soil (90% of excavated material) - haz	0 *	
Disposal of trench debris (10% of excavated material) - haz	25,057 *	
Transportation of excavated material from trench	80,700 *	
Task Subtotals	$ 473,271	$ 36,441

Task Total	$ 509,712

* Overhead and profit included in cost.
** Disposal costs include 14% local disposal tax.
CQA = Construction Quality Assurance.

AREA BCE
CONTAINMENT ALTERNATIVE 2
COLLECTION BY EXTRACTION WELLS AND/OR TRENCH
OPERATION AND MAINTENANCE COSTS
30-YEAR COSTS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate		Site ID:	Buffalo Color		
		Technology/Process:	Area BCE Extraction System		
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Extraction System					
Well /trench maintenance*		63,327	1	EACH	63,327
Electricity		876	30	Ea. yr.	26,280
Systems Inspections/Reporting		5,000	30	Ea. yr.	150,000
Subtotal					239,607
Contingencies (20%)					47,921
Task Total (30 YEAR)					287,528
				Annual Costs	9,584

Notes:

*Assumes 25% replacement of total cost of well/trench system (minus waste disposal and soil testing) over 30-year period.

Assumes sumps/compressor consume 20 kilowatt hours per day; 12 cents kilowatt hour rate.

AREAS A, C, E
ASPHALT CAPPING OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate		Site ID:	Buffalo Color		
		Technology/Process:	Soil Capping		
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Cover System Components					
3-inch thick stone base (1)	*	1.00	25,700	SY	25,700
Asphalt binder (2 inches thick)	*	5.00	47,400	SY	237,000
Asphalt wearing surface (1 inch thick)	*	5.00	47,400	SY	237,000
				TOTAL	$499,700

Notes:

* Costs from local contractor estimate

AREAS A, C, E
ASPHALT CAPPING OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

BUFFALO, NEW YORK

Task Summary	
Cover System Components	
3-inch thick stone base*	25,700
Asphalt binder (2 inches thick)*	237,000
Asphalt wearing surface (1 inch thick)*	237,000
Subtotal	$ 499,700
Design/CQA (1%)	4,997
Overhead and Profit (15%)	0
Contingencies (20%)	99,940
Total	$ 604,637

* Cost from local contractor initial estimates; overhead and profit included in cost.
CQA = Construction Quality Assurance.

AREA ACE
CONTAINMENT ALTERNATIVE 2
ASPHALT CAPPING OF SOILS
OPERATION AND MAINTENANCE COSTS
30 YEAR COSTS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate		Site ID:	Buffalo Color		
		Technology/Process:	Soil Capping		
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Asphalt Cap					
Annual asphalt integrity assessment		2,000	30	EACH	60,000
25% replacement of wearing surface every 5 years		59,250	6	EACH	355,500
Subtotal					415,500
Contingencies (5%)					20,775
Task Total (30 year)					436,275
				Annual costs	14,543

Notes:

ALTERNATIVE 1A
AREA A GROUT BARRIER
OFFSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate		Site ID:	Buffalo Color		
		Technology/Process:	Area A Grout Barrier		
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Grout barrier	*	729	1550	Lin.Ft.	1,129,950
Disposal of soil (90% of excavated material) - hazardous	**	79.80	1,426.0	Ton	113,795
Disposal of debris (10% of excavated material) - haz	**	79.80	159.0	CY	12,688
Transportation of excavated material	**	20	1585	Ton	31,700
Notes:				**TOTAL**	$1,288,133

*Cost from Hayward Baker initial estimates; overhead and profit included in cost.
** Includes 14% local disposal tax.
Assume: 1 Ton = 1 cy.

ALTERNATIVE 1A
AREA A GROUT BARRIER
OFFSITE DISPOSAL OF SOILS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Task Summary		
Grout Barrier*		1,129,950
Subtotal	$	1,129,950
Design/CQA (05%)	+	56,498
Contingencies (25%)	+	282,488
Soil Disposal		113,795
Debris Disposal		12,688
Transportation of excavated material		31,700
Task Total	$	1,627,119

* Cost from Hayward Baker initial estimates
Overhead and profit included in costs.
CQA = Construction Quality Assurance.

ALTERNATIVE 1
AREA A EROSION CONTROL

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate		Site ID:	Buffalo Color		
		Technology/Process:	Area A Bank Stabilization		
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Rip Rap		8	15000	SF	120,000
Brush clearing*		0.10	15000	SF	1,500
Slope grading		10	555	CY	5,550
Notes:				**TOTAL**	$127,050

*Costs from R.S. Means Environmental Restoration Assemblies Cost Book, 1997.

ALTERNATIVE 1
AREA A BANK EROSION CONTROL

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Task Summary		
Rip Rap		120,000
Brush clearing		1,500
Slope grading		5,550
Subtotal	$	127,050
Design/CQA (15%)	+	19,058
Contingencies (20%)	+	31,763
Task Total	$	177,871

Costs from R.S. Means Environmental Restoration Assemblies Cost Book, 1997.

CQA = Construction Quality Assurance.

AREA E
SHEET PILE REPAIR

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate		Site ID:	Buffalo Color		
		Technology/Process:	Sheetpile Repair		
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Sheet Pile Repair					
Excavate and repair sheet pile		10,000.00	1	Each	10,000
				TOTAL	$10,000

Notes:
Costs from local contractor initial estimates; includes repairing both sheet pile sections.

AREA E
SHEETPILE REPAIR

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Task Summary	
Sheetpile Repair	
Excavate and repair sheet pile	10,000
Subtotal	$ 10,000
Design/CQA (15%)	1,500
Contingencies (30%)	3,000
Total	$ 14,500

Cost from local contractor initial estimates; overhead and profit included in cost.
CQA = Construction Quality Assurance.

AREA E
CORRECTIVE ACTION MANAGEMENT UNIT (CAMU)
FOR ONSITE SOIL DISPOSAL OF EXTRACTION SYSTEM SPOILS

BUFFALO COLOR CORPORATION
BUFFALO , NEW YORK

Task Summary	
CAMU installation	
Grading	15,312
Underdrain piping	3,500
Transfer piping	1,300
Drainage aggregate	520
Drainage geonet with double-sided filter fabric	12,500
Structural geotextile	7,500
Asphalt binder - 2" thick	12,500
Asphalt wearing surface - 1" thick	12,500
Subtotal	$ 65,632
Design/CQA (20%)	13,126
Overhead and Profit (15%)	9,845
Contingencies (30%)	19,690
Task Total	$ 108,293

Cost from local contractor estimates
Overhead and profit included in costs.
CQA = Construction Quality Assurance.

AREA ACE
CAMU ALTERNATIVE 2
CORRECTIVE ACTION MANAGEMENT UNIT (CAMU)
FOR ONSITE SOIL DISPOSAL OF EXTRACTION SYSTEM SPOILS
30 YEAR COSTS

BUFFALO COLOR CORPORATION
BUFFALO, NEW YORK

Cost Estimate	Site ID:	Buffalo Color			
	Technology/Process:	CAMU			
Assembly		Unit Cost	Quantity	Unit of Measure	Total Cost
Asphalt Cap					
Annual asphalt integrity assessment		500	30	EACH	15,000
25% replacement of wearing surface every 5 years		3,125	6	EACH	18,750
Subtotal					33,750
Contingencies (5%)					1,688
Task Total (30 year)					35,438
				Annual costs	1,181

Notes: