



January 9, 2017

Environmental Support for:

- *Transportation*
- *Land Development*
- *Mining*
- *Industry*

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Re: Response to Goose Haven Reservoir #2; DRMS File No. M-2010-71;
Adequacy Review No. 2 (AM-01)

Michael,

The following numbered responses correspond to your numbered comments in the preliminary Adequacy Review Letter dated November 9, 2016. Additional supporting documents and updated Exhibits have been attached.

6.4.6 Exhibit D – Mining Plan

1. In the Division's Preliminary Adequacy Letter dated October 27, 2015, the Division required the Operator to submit a new set of structure agreements as the result of a change to the Mining Plan. The Operator was not able to secure all of the necessary structure agreements. Therefore, the Operator must submit an engineering evaluation to demonstrate that all permanent man-made structures within 200 feet of the affected area will not be damaged by activities occurring at the mining operation.

A revised Slope Stability Analysis has been enclosed as Exhibit S –
Attachment 1 – Slope Stability Analysis

2. Pursuant to Rule 3.1.6, disturbances to the prevailing hydrologic balance of the affected land and of the surrounding area and to the quantity or quality of water in surface and groundwater systems both during and after the mining operation and during reclamation shall be minimized. Reservoir #4 is partially located with the 100 year floodplain of Bullhead Gulch. As a result, the Operator must show how disturbances to the prevailing hydrologic balance will be minimized during a 100 year flood event. The Operator's response should address the potential overtopping of the reservoir and the erosion and off-site damage which could occur as the result of a 100 year flood event.

Reservoir #4 does occur in the bullhead gulch floodplain. The reservoir is primarily a cut and lowering of the existing ground surface with a small 1-2ft fill area to the north. The net effect to floodwaters is expected to lower floodwater surface elevations due to the additional overbank storage provided by the reservoir cut. The floodplain was mapped by Taggart and Associates in December of 1999. A copy of the detailed study was obtained from the City of Lafayette and reviewed. Taggart used HEC-2 to model this floodplain. Floodwaters in Bullhead gulch are predicted to flow from the south to the north toward Boulder Creek. In the model, near the southeast corner of Lafayette's Goose Haven property, the flood flow splits with approximately 1,400 cfs flowing over SH-287 to the west onto the Goose Haven property and the remaining flow splitting off to the east of SH-287. Flow would then enter the existing Goose Haven Reservoir #2 and then flow north to where the proposed Goose Haven Reservoir #4 will occur. The existing floodplain in that area shows the 1,400 cfs concentrated in the north east corner of the Goose Haven property west of SH-287. The proposed grading plan for Reservoir #4 will result in a constant elevation along the north boundary of the reservoir allowing the spreading out of floodwaters over the crest of the north boundary and allowing an "even spill" of the reservoir as opposed to a small area of concentrated flow in the existing condition. If the depth of floodwaters is assumed a constant 1 ft in the area, then the floodwater velocity of the existing condition in the northeast corner of the property would be approximately 8.2 ft/s across approximately 170 ft (east to west) section. The proposed condition would have the same floodwaters spilling over 1,200 ft yielding a floodwater velocity of 1.2 ft/s. It could therefore be said that the floodwaters adjacent to the Lower Boulder Ditch north of the property would have potentially less erosive power than the existing conditions and therefore become less damaging to the ditch structure in a flood event. Regarding the rising limb of the flood hydrograph as it inundates this area, given that the split to the east of SH-287 has considerably higher flows and no overbank storage to fill, the arrival of floodwaters to Lower Boulder ditch east of SH-287 would therefore occur well before Reservoir #4 spills. Floodwaters would then likely flow west under SH-287 and inundate the banks of the Lower Boulder Ditch prior to Reservoir #4 spilling. This would have the effect of reducing the hydraulic gradient between Reservoir #4 and the ditch thereby reducing

the erosive power of the flood. It should also be noted that the reach of the Lower Boulder Ditch north of Reservoir #4 is lined with rock.

6.4.7 Exhibit G – Water Information

Pursuant to Rule 3.1.6(1)(a), Operators are required to demonstrate how mining operations will comply with applicable Colorado Water laws and regulations governing injury to existing water rights. The Division issued a groundwater policy on April 30, 2010 which provided four options for gaining compliance with applicable regulations governing injury to existing water rights. The Division asked the Operator to select one of the available options in the Adequacy Letter dated October 27, 2015. In response to the Division's request, the Operator stated that augmentation of water rights is not required. Currently, the Operator is exposing groundwater at the Goose Haven Reservoir. The exposure of groundwater will be eliminated upon final reclamation of the mine site which includes constructing clay lined reservoirs. However, until such time as the exposed groundwater is eliminated and the clay liners are approved by the Office of the State Engineer, the Operator must select one of the options provided in the Division's groundwater policy (copy attached). Please respond.

Option #4, which states: "Obtain approval from the Division of Water Resources that acknowledges compliance with the SEO's requirements pursuant to § 37-90-137(11)". is chosen.

The following paragraph has been taken from the SEO temporary substitute water supply plan approval letter:

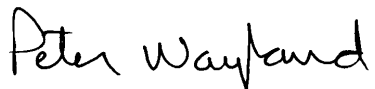
"Long-Term Augmentation

Final reclamation at the site will consist of lined storage reservoirs for Lafayette's use as a part of the Goose Haven Reservoir Complex. In accordance with the letter dated April 30, 2010 (copy attached) from the Colorado Division of Reclamation, Mining, and Safety ("DRMS"), all sand and gravel mining operators must comply with the requirements of the Colorado Reclamation Act and the Mineral Rules and Regulations for the protection of water resources. As the DRMS permit holder and land owner is the City of Lafayette, a bond to cover the cost of backfilling or lining the pit is not required as Lafayette is a governmental agency. As the final reclamation plan is a lined reservoir, an augmentation plan is not required to be filed in court."

6.4.10 Exhibit J- Vegetation Information

The revised Weed Management Plan states that application of herbicide will occur if significant weeds are found. However, the Weed Management Plan does not define what constitutes a significant population of weeds. Pursuant to Rule 3.1.10(6), methods of weed control shall be employed for *all* prohibited noxious weed species. The Operator should be aware that noxious weeds in Colorado are categorized into three separate lists: A, B and C. Noxious weeds which occur on List A are designated for eradication from all County, State and Federal lands, regardless of the size of the population. Noxious weeds which occur on List B include plants whose continued spread should be stopped. Finally, noxious weeds which occur on List C are selected for recommended control methods. Please revise the management objectives of the Weed Management Plan to align with the Colorado Noxious Weed Act and Rule 3.1.10(6).

The weed management plan has been revised to say "application of herbicide will occur if any weeds are found". Additionally, the Key to Appendix I Fact Sheets table has been updated to include weed categories.



Peter Wayland
President

Encl. Exhibit S – Attachment 1 – Slope Stability Analysis, Exhibit D- Mine Plan Map
Weed Management Plan

6.4.19 Exhibit S – Attachment 1 – Slope Stability Analysis

1.0 INTRODUCTION

In this amendment application the type of groundwater barrier structure has been changed from slurry wall to compacted clay liner. As such, this change affects the soil cross section profiles utilized in the previous slope stability analysis. The previous slope stability analysis performed by CTL Thompson in support of the existing permit is therefore no longer applicable. This analysis utilizes test hole and soil strength data presented in the CTL Thompson reports to update slope stability cross section profiles and groundwater conditions for the proposed mining excavations.

As required by Rule 6.4.19, notification to all owners of structures within 200ft of the disturbance area has been completed.

This analysis looks at the structures closest to the excavation including Xcel energy utility poles along the eastern boundaries of Cell 2 and Cell 4 as well as the 36" NCWCD water main along the western boundary of Cell 2.

A representative from Xcel energy met onsite in October, 2016. Xcel representatives indicated they did have a problem with the project as planned, however they indicated that agreements could take a considerably long time to acquire. We have not had any further correspondence from Xcel.

With regard to the NCWCD pipeline to the west of Cell 2, the City continues to secure a mining and crossing agreement with NCWCD, however since the crossing engineering has been taking a considerable amount of time, this analysis is given to allow mining within 200ft of their structure.

The remaining structures identified in Exhibit S, for which mining agreements have not been executed, are deemed safe from slope failure based on the logic that they are further away from the excavations than those structures which are included in this analysis.

1.1 METHODOLOGY

The digital software application Slide 7.011 (Rocscience, Inc., 2016) is utilized for this study. The program utilizes Simplified Bishop and Janbu Simplified analytical solutions to slope failure. The model also uses finite element methods to model pore pressure due to groundwater, which is then utilized in the slope failure solutions. Model input is based on surface and subsurface information taken from site specific subsurface test holes and soil strength parameters determined by laboratory analysis for various the soil types. Slide cross section ground surface cut lines are given in the Exhibit D – Mine Plan as are the representative test hole locations used for the Slide cross section geometries.

2.0 MODEL INPUT DATA

2.1 TEST HOLES

This study relies on the test hole data resulting from previous CTL Thompson subsurface investigations, which were submitted to the division in support of the existing

6.4.19 Exhibit S – Attachment 1 – Slope Stability Analysis

DRMS permit. In addition, test hole WI-TH-107 was drilled by WI in the summer of 2016.

Specifically, test holes used to represent Slide soil input soil stratigraphy and geometry were, TH-21, TH-7, WI-TH-107 TH-19, TH-1, P-3. Test Holes WI-TH-107, TH-19 and TH-7 occur in the vicinity of Xcel Utility Poles along the eastern boundary of Cell 2. Test hole TH-19 occurs along the western boundary of Cell 2. TH-19 was selected to for the western boundary of Cell 2 as the most conservative test hole in the vicinity of the boundary due to total depth and soil types.

Test holes TH-1 and P-3 were used for the eastern boundary of Cell 4.

Slide cross sections were assembled based on existing ground topographic information and soil thicknesses and elevations from the nearby test holes. Table 2.1 below gives the test hole used for the slide cross sections

Table 2.1. Test Hole Representing Slide Cross Sections

Figure	Slide Cross Section	Representative Test Hole
Figure-1	Section A-A'	WI-TH-107
Figure-2	Section B-B'	TH-21
Figure-3	Section C-C'	TH-7
Figure-4	Section D-D'	TH-19
Figure-5	Section E-E'	TH-1
Figure-6	Section F-F'	P-3

Slide cross sections correspond to the cross section cut lines given in Exhibit D- Mine Plan. The test hole locations are also shown in Exhibit D.

2.2 SOIL STRENGTH PARAMETERS

Soil strength parameters. Were taken from soils analysis data provided by CTL Thompson (see Appendix I, Figure C-22) in support of the slope stability analysis for the existing permit.

2.3 GROUNDWATER

A critical parameter contributing to the stability/failure of slopes is the presence of groundwater and more specifically, pore pressure exerted by groundwater within pore space of soils. The model used herein utilizes a separate groundwater modeling unit to determine pore pressures within the soil layers. The pore pressures are then combined with dry densities of the soils to determine the gravitational component of slope failure. As such, the model only requires dry densities of soils to be entered.

Initial water table elevation boundary condition model inputs are based on groundwater table elevations given in the previous groundwater studies provided by CTL Thompson

6.4.19 Exhibit S – Attachment 1 – Slope Stability Analysis

and observed seepage face elevations in the excavations. Hydraulic conductivities for each soil type below the water table are given below in Table 2.2.

Modeled groundwater discharge volumes (unit volumes) from the seepage faces of the Slide Cross sections are consistent with observed pump rates (over the entire boundary) from the excavation giving a good indication as to the accuracy of the predicted groundwater conditions of the slopes. It should be noted that Hydraulic Conductivities given in CTL Thompson Figure C-22 appear to have the wrong units of ft/s. The values in C-22 are consistent with units of ft/day for the give soils. Hydraulic Conductivity values in C-22 are the result of laboratory falling head tests and or packer tests, which tend to be more accurate where soils are homogeneous in areal and vertical extent. The local fine grained soils are relatively homogeneous and therefore the C-22 values were used. The local coarser grained soils more heterogeneous and therefore the values in Table 2.2 are thought to be more representative than C-22.

Table 2.2. Soil Hydraulic Conductivity Table

Soil Type	Hydraulic Conductivity [ft/day]
Clay (CL)	3×10^{-6}
Silty Sand (SM)	.03
Clayey Sand (SC)	3×10^{-4}
Gravelly Sand (GP)	25
Sandy Gravel (GP)	75
Weathered Claystone	3×10^{-6}
Claystone Bedrock	1×10^{-8}

Prior to slope failure modeling, the model is run to simulate soil pore pressures resulting from steady state groundwater flow for dewatered excavation conditions.

3.0 MODEL OUTPUT

The graphical model output is given in Figures 1-6. Appendix II gives the Slide 7.011 Model numerical output for each failure circle. Figures 1-6 show all slope failures for a factor of Safety less than 1.5. Critical failure circle factor of safeties are given in the shaded failure circle center point rectangle.

4.0 DISCUSSION

It is understood that a factor of safety of greater than 1.5 is recommended for structures within 200ft of a mining excavation. In all cases structures within 200ft of the excavation occur at a distance with a predicted factor of safety of greater than 1.5 for the specified excavation slopes. For all slopes modeled, critical surfaces occur at a factor of safety less than 1.5 somewhere on the slope face. These lower than 1.5 critical failure surface are not thought to be of concern based on the logic that, if the slopes were to fail in the

6.4.19 Exhibit S – Attachment 1 – Slope Stability Analysis

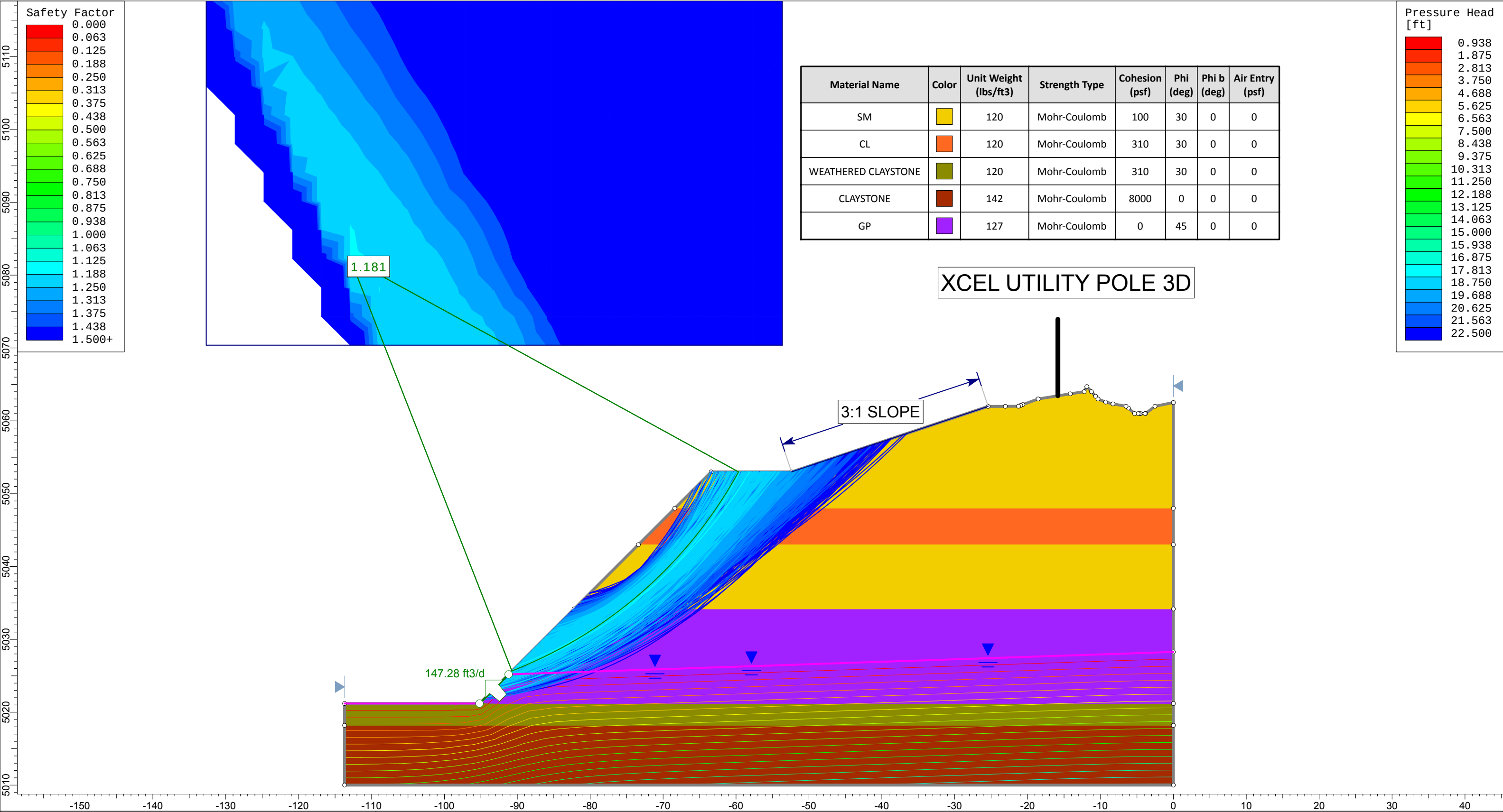
vicinity of the critical failure surface, then the angle of repose would be lowered and the factor of safety at the specified distance would increase.

Slope stability analysis was not performed for the reclamation slopes due to the following reasons.

- 3:1 slopes are specified for all reclamation slopes and are generally considered stable
- Considering the extremely low permeability reclaimed slopes, they are not predicted to hold any significant volume of water and therefore the weight of water under rapid drawdown of the reservoirs should not influence stability of the slopes
- The reclamation slopes shall be constructed of soils with a high coefficient of cohesion.

5.0 REFERENCES

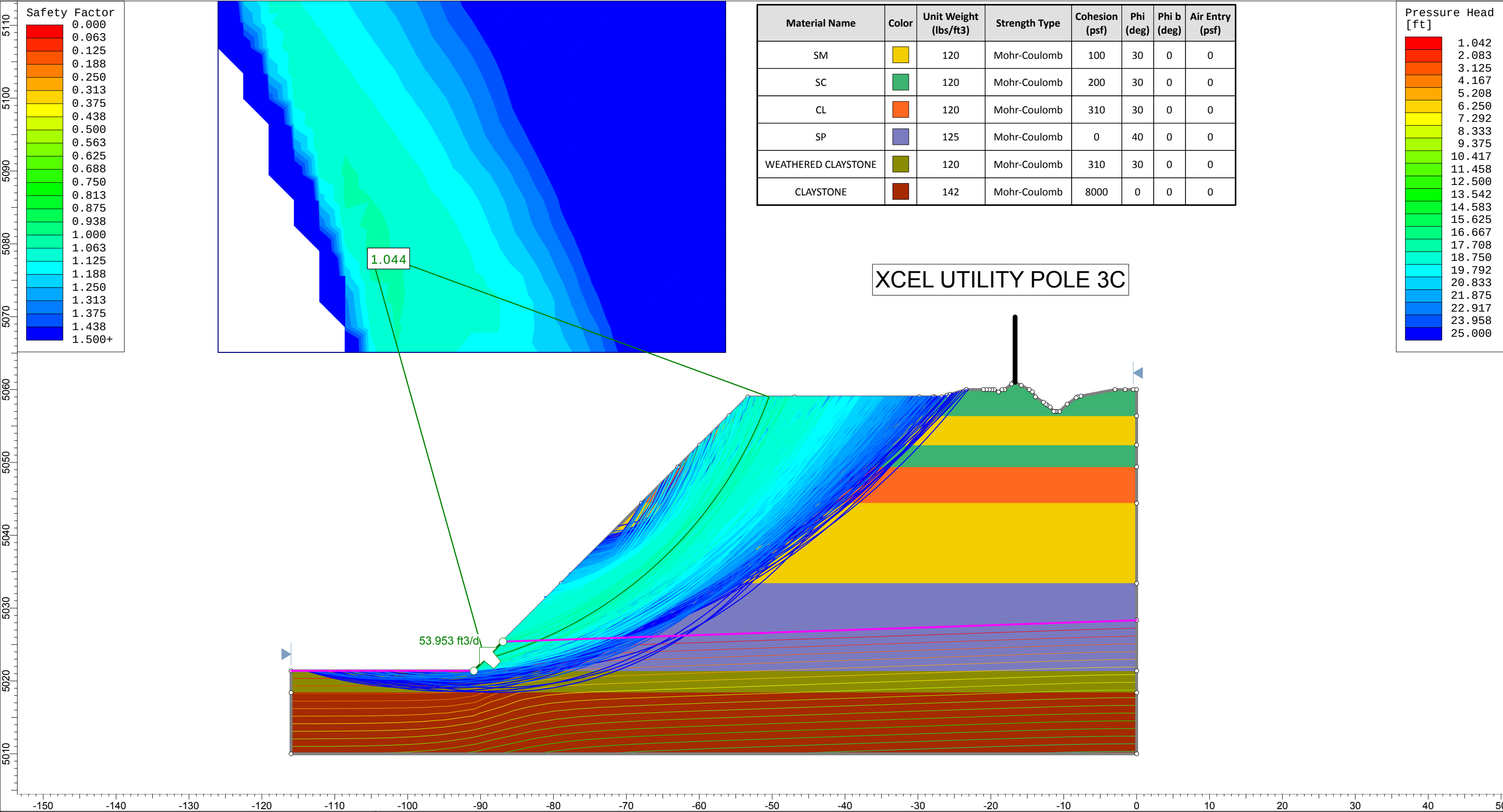
Rocscience, (2016). Slide 7.011, Rocscience, Inc. 780 University Avenue, Toronto Ontario M5G MY8 CA,

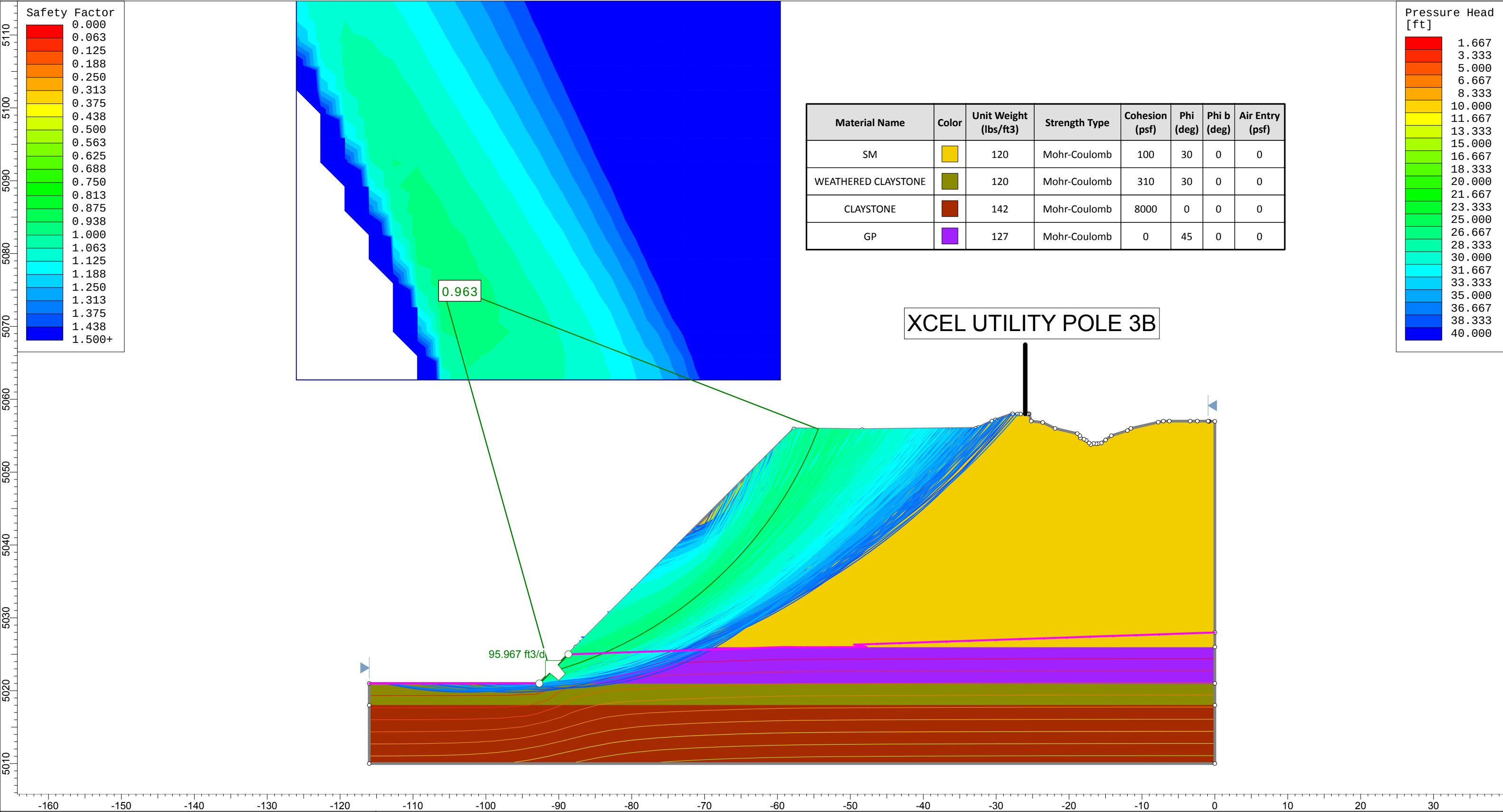


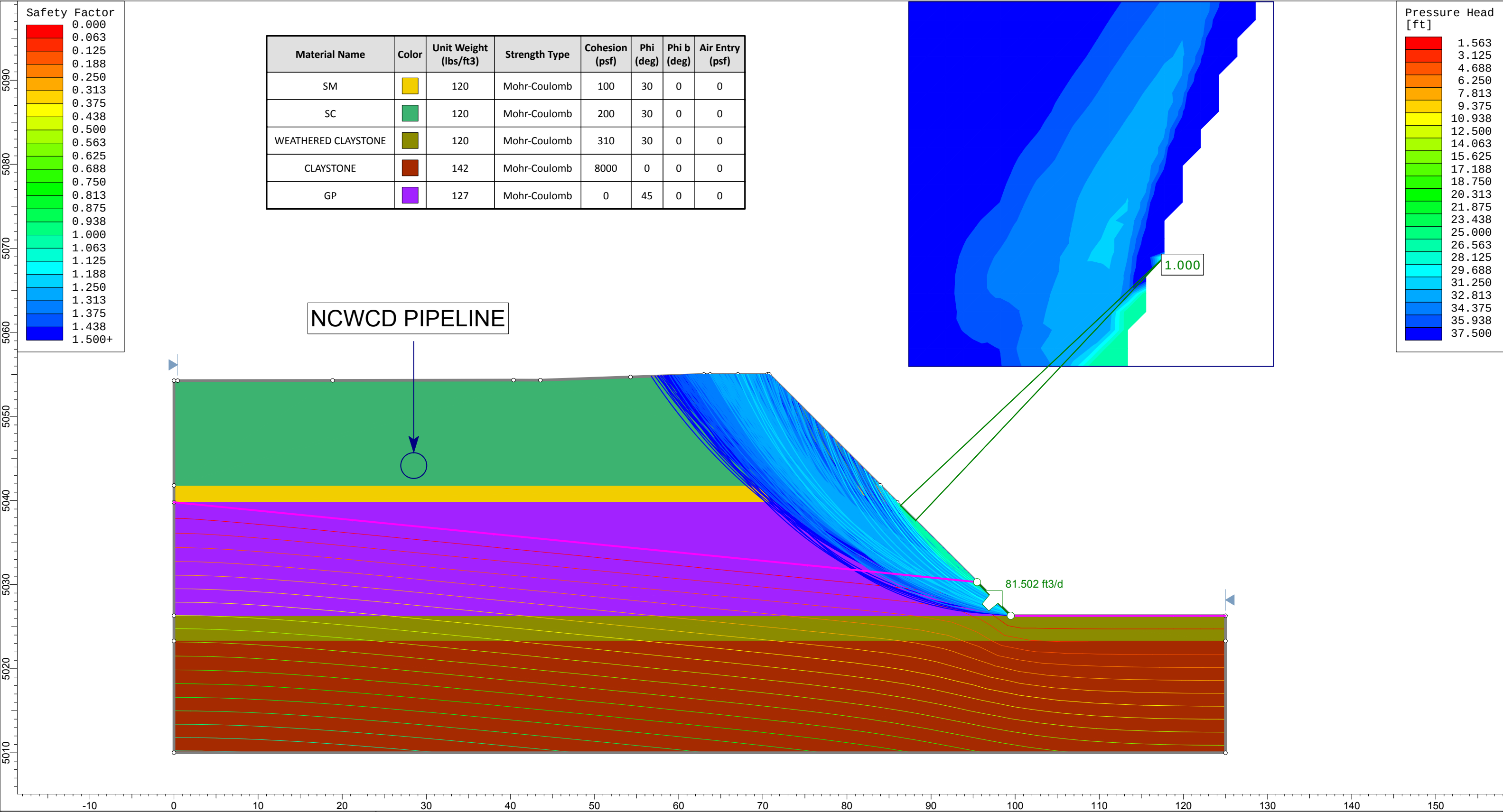
Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Phi b (deg)	Air Entry (psf)
SM		120	Mohr-Coulomb	100	30	0	0
CL		120	Mohr-Coulomb	310	30	0	0
WEATHERED CLAYSTONE		120	Mohr-Coulomb	310	30	0	0
CLAYSTONE		142	Mohr-Coulomb	8000	0	0	0
GP		127	Mohr-Coulomb	0	45	0	0

XCEL UTILITY POLE 3D

FIGURE 1 - SECTION A-A'







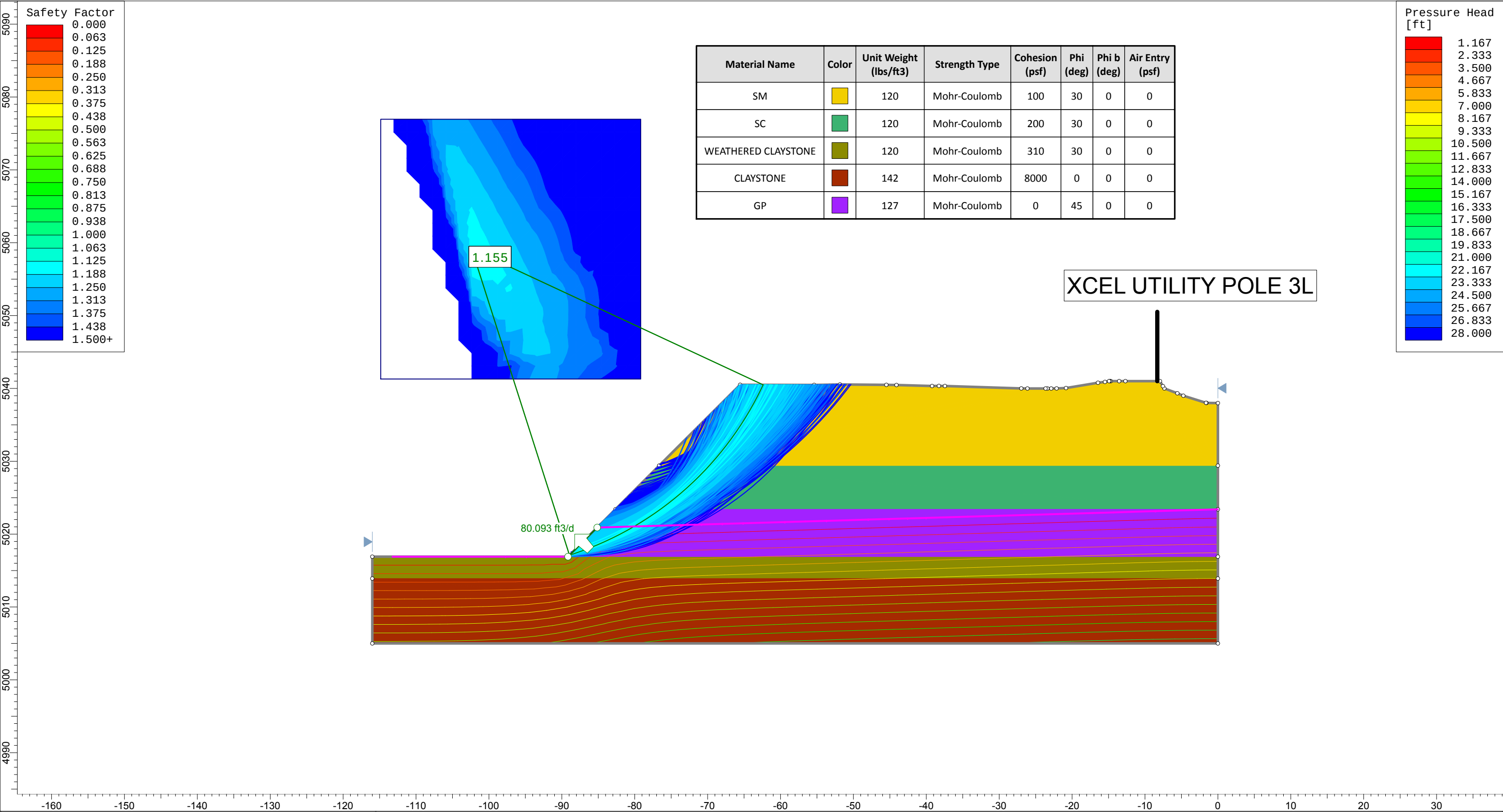
Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Phi b (deg)	Air Entry (psf)
SM	■	120	Mohr-Coulomb	100	30	0	0
SC	■	120	Mohr-Coulomb	200	30	0	0
WEATHERED CLAYSTONE	■	120	Mohr-Coulomb	310	30	0	0
CLAYSTONE	■	142	Mohr-Coulomb	8000	0	0	0
GP	■	127	Mohr-Coulomb	0	45	0	0

NCWCD PIPELINE

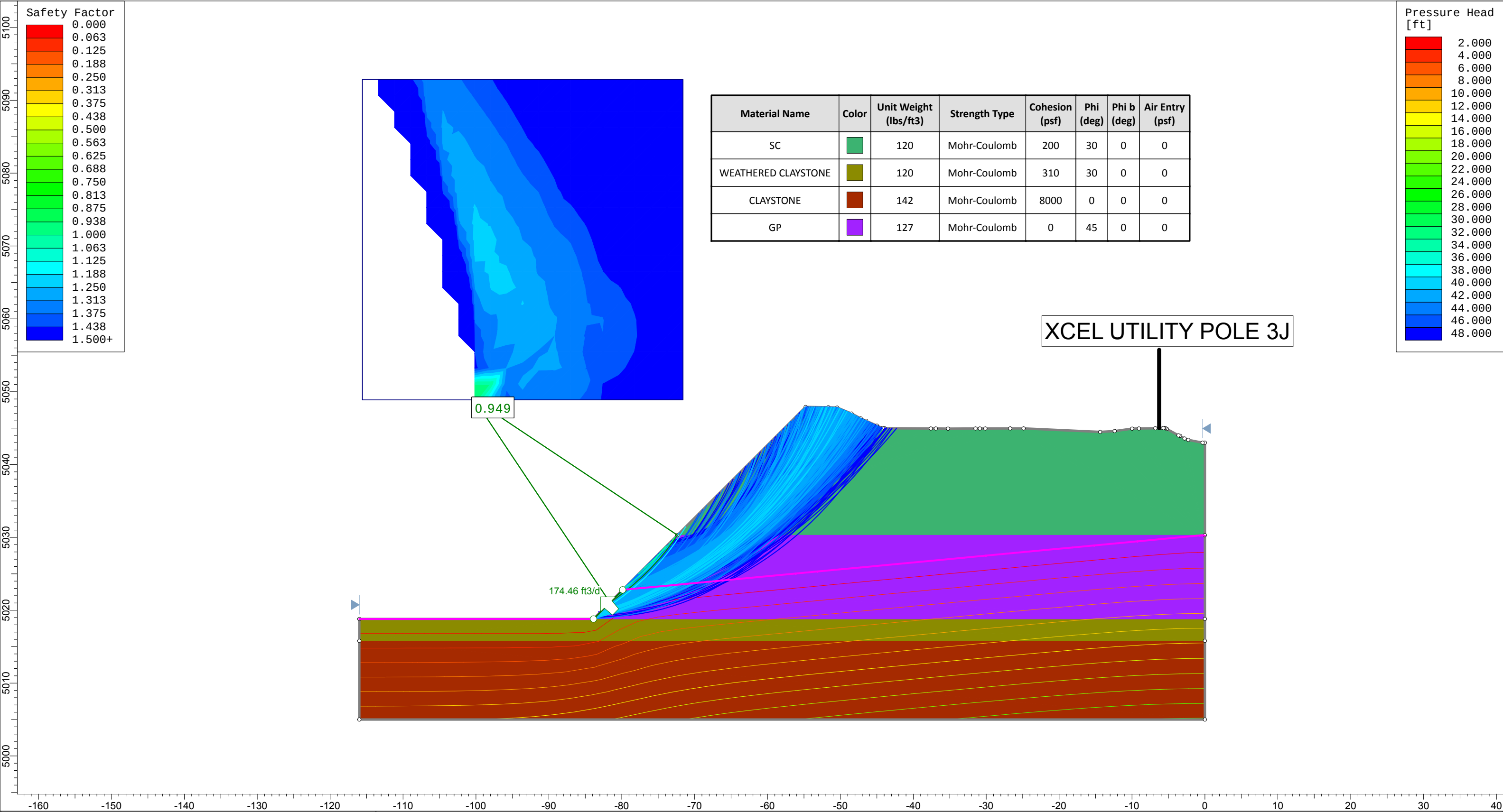
1.000

81.502 ft3/d

FIGURE 4 SECTION D-D'



Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Phi b (deg)	Air Entry (psf)
SM		120	Mohr-Coulomb	100	30	0	0
SC		120	Mohr-Coulomb	200	30	0	0
WEATHERED CLAYSTONE		120	Mohr-Coulomb	310	30	0	0
CLAYSTONE		142	Mohr-Coulomb	8000	0	0	0
GP		127	Mohr-Coulomb	0	45	0	0



Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Phi b (deg)	Air Entry (psf)
SC		120	Mohr-Coulomb	200	30	0	0
WEATHERED CLAYSTONE		120	Mohr-Coulomb	310	30	0	0
CLAYSTONE		142	Mohr-Coulomb	8000	0	0	0
GP		127	Mohr-Coulomb	0	45	0	0

FIGURE 6 F-F'

APPENDIX I



Soil Type	Unit Weight, γ_t (pcf)	Moisture Content, w (%)	Dry Density, γ_d (pcf)	Cohesion, c (psf)	Friction Angle, ϕ (°)	Hydraulic Conductivity, k (ft/s)	Specific Gravity, G_s	Void Ratio, e	Porosity, n	Degree of Saturation, S	Volumetric Water Content, Θ	Modulus of Elasticity of Soil, E (psi)	Coefficient of Volume Compressibility, M_v (1/psf)
Clay (CL)	120	20	100	310	30	3.0×10^{-6}	2.7	0.68	0.41	0.79	0.32	500	1.39×10^5
Silty Sand (SM)	120	22.9	98	100	30	0.03	2.65	0.69	0.41	0.87	0.36	375	1.85×10^5
Clayey Sand (SC)	120	15.8	104	200	30	3.0×10^{-4}	2.65	0.60	0.37	0.70	0.26	375	1.85×10^5
Gravelly Sand (SP)	125	6.5	117	0	40	3.0	2.65	0.41	0.29	0.42	0.12	3000	2.31×10^6
Sandy Gravel (GP)	127	6.5	119	0	45	300	2.65	0.39	0.28	0.45	0.12	3000	2.31×10^6
Bedrock	145	14.3	127	8000	0	3.0×10^{-8}	2.7	0.33	0.25	1.18	0.29	2000	3.47×10^6
Slurry Wall	90	105.3	44	100	0	4.6×10^{-8}	2.7	2.84	0.74	1.00	0.74	2000	3.47×10^6

* Lowest measured horizontal permeability = 0.051 ft/day (page 19). Experience shows vertical permeability is less than horizontal permeability by one or more magnitudes; therefore, a permeability of 0.003 ft/day (3.0×10^{-8} ft/sec) was used for stability analysis.

APPENDIX II

FIGURE 1 A-A' DATA

FIGURE 1 A-A' DATA

File: J:\Cad Projects\GOOSE HAVEN RESERVOIR\dwg\Slope Stability\Dec 2016\Slide\th-107.slm

Project Title: SLIDE - An Interactive Slope Stability Program

Analysis Method: bishop simplified

Raw Data for All Circle Results

Center_x	Center_y	Radius	Factor_of_Safety
-132.677	5070.380	52.714	-1000.00000
-132.677	5070.380	52.714	-1000.00000
-132.677	5070.380	52.714	-1000.00000
-132.677	5070.380	52.714	-1000.00000
-132.677	5070.380	52.714	-1000.00000
-132.677	5070.380	52.714	-1000.00000
-132.677	5070.380	52.714	-1000.00000
-132.677	5070.380	52.714	-1000.00000
-132.677	5070.380	52.714	-1000.00000
-132.677	5070.380	52.714	-1000.00000
-132.677	5074.332	56.419	-1000.00000
-132.677	5074.332	56.419	-1000.00000
-132.677	5074.332	56.419	-1000.00000
-132.677	5074.332	56.419	-1000.00000
-132.677	5074.332	56.419	-1000.00000
-132.677	5074.332	56.419	-1000.00000
-132.677	5074.332	56.419	-1000.00000
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-132.677	5074.332	56.419	-1000.00000
-132.677	5074.332	56.419	-1000.00000
-132.677	5078.284	60.155	-1000.00000
-132.677	5078.284	60.155	-1000.00000
-132.677	5078.284	60.155	-1000.00000
-132.677	5078.284	60.155	-1000.00000
-132.677	5078.284	60.155	-1000.00000
-132.677	5078.284	60.155	-1000.00000
-132.677	5078.284	60.155	-1000.00000
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-132.677	5082.235	63.918	-1000.00000
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-132.677	5082.235	63.918	-1000.00000
-132.677	5082.235	63.918	-1000.00000
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-132.677	5082.235	63.918	-1000.00000
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-132.677	5082.235	63.918	-1000.00000
-132.677	5082.235	63.918	-1000.00000
-132.677	5086.187	67.701	-1000.00000
-132.677	5086.187	67.701	-1000.00000

APPENDIX II

FIGURE 1 A-A' DATA

-132.677	5105.946	86.490	89.39680
-132.677	5105.946	86.527	50.97620
-132.677	5105.946	86.564	34.52790
-132.677	5105.946	86.601	25.20320
-132.677	5105.946	86.639	19.67180
-132.677	5105.946	86.676	16.05060
-132.677	5105.946	86.713	13.51460
-132.677	5105.946	86.750	11.64970
-132.677	5105.946	86.787	10.22640
-132.677	5105.946	86.824	9.10781
-132.677	5109.898	89.300	61.71140
-132.677	5109.898	89.433	19.79460
-132.677	5109.898	89.567	10.85360
-132.677	5109.898	89.700	7.34254
-132.677	5109.898	89.833	5.51797
-132.677	5109.898	89.966	4.46607
-132.677	5109.898	90.099	3.78333
-132.677	5109.898	90.232	3.30538
-132.677	5109.898	90.365	2.95273
-132.677	5109.898	90.498	2.68227
-132.677	5109.898	90.632	2.46859
-132.677	5113.850	92.148	26.07930
-132.677	5113.850	92.378	10.15270
-132.677	5113.850	92.608	5.93347
-132.677	5113.850	92.838	4.26284
-132.677	5113.850	93.067	3.38108
-132.677	5113.850	93.297	2.84026
-132.677	5113.850	93.527	2.47680
-132.677	5113.850	93.757	2.21701
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-132.677	5117.802	95.324	7.13566
-132.677	5117.802	95.651	4.65919
-132.677	5117.802	95.978	3.39675
-132.677	5117.802	96.305	2.72807
-132.677	5117.802	96.632	2.31920
-132.677	5117.802	96.959	2.04596
-132.677	5117.802	97.286	1.85201
-132.677	5117.802	97.612	1.70820
-132.677	5117.802	97.939	1.56933
-132.677	5117.802	98.266	1.46502
-132.677	5121.754	97.845	8.40111
-132.677	5121.754	98.270	5.89429
-132.677	5121.754	98.695	4.19950
-132.677	5121.754	99.120	3.03813
-132.677	5121.754	99.544	2.44050
-132.677	5121.754	99.969	2.08282
-132.677	5121.754	100.394	1.84793
-132.677	5121.754	100.818	1.68370
-132.677	5121.754	101.243	1.54857
-132.677	5121.754	101.668	1.43324
-132.677	5121.754	102.093	1.35556

APPENDIX II**FIGURE 1 A-A' DATA**

-132.677	5125.705	100.722	7.94744
-132.677	5125.705	101.243	5.12895
-132.677	5125.705	101.763	3.99681
-132.677	5125.705	102.283	2.85491
-132.677	5125.705	102.804	2.28726
-132.677	5125.705	103.324	1.95558
-132.677	5125.705	103.844	1.74180
-132.677	5125.705	104.364	1.59605
-132.677	5125.705	104.885	1.46314
-132.677	5125.705	105.405	1.36933
-132.677	5125.705	105.925	1.31097
-132.677	5129.657	103.669	7.48882
-132.677	5129.657	104.279	4.52688
-132.677	5129.657	104.889	3.69128
-132.677	5129.657	105.498	2.72836
-132.677	5129.657	106.108	2.18715
-132.677	5129.657	106.718	1.87614
-132.677	5129.657	107.327	1.67838
-132.677	5129.657	107.937	1.54498
-132.677	5129.657	108.547	1.41845
-132.677	5129.657	109.156	1.34148
-132.677	5129.657	109.766	1.29832
-132.677	5133.609	106.681	7.04997
-132.677	5133.609	107.374	4.06976
-132.677	5133.609	108.067	3.46370
-132.677	5133.609	108.761	2.64015
-132.677	5133.609	109.454	2.12100
-132.677	5133.609	110.148	1.82630
-132.677	5133.609	110.841	1.64205
-132.677	5133.609	111.534	1.51469
-132.677	5133.609	112.228	1.39736
-132.677	5133.609	112.921	1.33421
-132.677	5133.609	113.614	1.30365
-132.677	5137.561	109.752	6.69035
-132.677	5137.561	110.524	3.72536
-132.677	5137.561	111.295	3.29565
-132.677	5137.561	112.067	2.57920
-132.677	5137.561	112.839	2.07794
-132.677	5137.561	113.611	1.79610
-132.677	5137.561	114.382	1.62122
-132.677	5137.561	115.154	1.49619
-132.677	5137.561	115.926	1.39106
-132.677	5137.561	116.698	1.34039
-132.677	5137.561	117.469	1.32458
-132.677	5141.513	112.878	6.40834
-132.677	5141.513	113.723	3.46492
-132.677	5141.513	114.568	3.17117
-132.677	5141.513	115.414	2.53820
-132.677	5141.513	116.259	2.05126
-132.677	5141.513	117.104	1.77955
-132.677	5141.513	117.949	1.61200
-132.677	5141.513	118.795	1.48926
-132.677	5141.513	119.640	1.39587
-132.677	5141.513	120.485	1.35939

APPENDIX II

FIGURE 1 A-A' DATA

-132.677	5141.513	121.330	1.34912
-132.677	5145.464	116.054	6.19043
-132.677	5145.464	116.968	3.26664
-132.677	5145.464	117.882	3.07913
-132.677	5145.464	118.797	2.51220
-132.677	5145.464	119.711	2.03658
-132.677	5145.464	120.625	1.77390
-132.677	5145.464	121.540	1.61106
-132.677	5145.464	122.454	1.49045
-132.677	5145.464	123.369	1.41167
-132.677	5145.464	124.283	1.38004
-132.677	5145.464	125.197	1.37490
-132.677	5149.416	119.276	6.02334
-132.677	5149.416	120.256	3.11478
-132.677	5149.416	121.235	3.01167
-132.677	5149.416	122.214	2.49771
-132.677	5149.416	123.193	2.03092
-132.677	5149.416	124.173	1.77440
-132.677	5149.416	125.152	1.61619
-132.677	5149.416	126.131	1.50419
-132.677	5149.416	127.110	1.42863
-132.677	5149.416	128.090	1.40167
-132.677	5149.416	129.069	1.40128
-128.725	5070.380	51.424	-1000.00000
-128.725	5070.380	51.424	-1000.00000
-128.725	5070.380	51.424	-1000.00000
-128.725	5070.380	51.424	-1000.00000
-128.725	5070.380	51.424	-1000.00000
-128.725	5070.380	51.424	-1000.00000
-128.725	5070.380	51.424	-1000.00000
-128.725	5070.380	51.424	-1000.00000
-128.725	5070.380	51.424	-1000.00000
-128.725	5070.380	51.424	-1000.00000
-128.725	5070.380	51.424	-1000.00000
-128.725	5074.332	55.215	-1000.00000
-128.725	5074.332	55.215	-1000.00000
-128.725	5074.332	55.215	-1000.00000
-128.725	5074.332	55.215	-1000.00000
-128.725	5074.332	55.215	-1000.00000
-128.725	5074.332	55.215	-1000.00000
-128.725	5074.332	55.215	-1000.00000
-128.725	5074.332	55.215	-1000.00000
-128.725	5074.332	55.215	-1000.00000
-128.725	5074.332	55.215	-1000.00000
-128.725	5074.332	55.215	-1000.00000
-128.725	5074.332	55.215	-1000.00000
-128.725	5074.332	55.215	-1000.00000
-128.725	5078.284	59.028	-1000.00000
-128.725	5078.284	59.028	-1000.00000
-128.725	5078.284	59.028	-1000.00000
-128.725	5078.284	59.028	-1000.00000
-128.725	5078.284	59.028	-1000.00000
-128.725	5078.284	59.028	-1000.00000
-128.725	5078.284	59.028	-1000.00000
-128.725	5078.284	59.028	-1000.00000
-128.725	5078.284	59.028	-1000.00000
-128.725	5078.284	59.028	-1000.00000
-128.725	5078.284	59.028	-1000.00000

-128.725	5078.284	59.028	-1000.00000
-128.725	5078.284	59.028	-1000.00000
-128.725	5082.235	62.858	-1000.00000
-128.725	5082.235	62.858	-1000.00000
-128.725	5082.235	62.858	-1000.00000
-128.725	5082.235	62.858	-1000.00000
-128.725	5082.235	62.858	-1000.00000
-128.725	5082.235	62.858	-1000.00000
-128.725	5082.235	62.858	-1000.00000
-128.725	5082.235	62.858	-1000.00000
-128.725	5082.235	62.858	-1000.00000
-128.725	5082.235	62.858	-1000.00000
-128.725	5086.187	66.702	-1000.00000
-128.725	5086.187	66.702	-1000.00000
-128.725	5086.187	66.702	-1000.00000
-128.725	5086.187	66.702	-1000.00000
-128.725	5086.187	66.702	-1000.00000
-128.725	5086.187	66.702	-1000.00000
-128.725	5086.187	66.702	-1000.00000
-128.725	5086.187	66.702	-1000.00000
-128.725	5086.187	66.702	-1000.00000
-128.725	5086.187	66.702	-1000.00000
-128.725	5086.187	66.702	-1000.00000
-128.725	5090.139	70.557	-1000.00000
-128.725	5090.139	70.557	-1000.00000
-128.725	5090.139	70.557	-1000.00000
-128.725	5090.139	70.557	-1000.00000
-128.725	5090.139	70.557	-1000.00000
-128.725	5090.139	70.557	-1000.00000
-128.725	5090.139	70.557	-1000.00000
-128.725	5090.139	70.557	-1000.00000
-128.725	5090.139	70.557	-1000.00000
-128.725	5090.139	70.557	-1000.00000
-128.725	5090.139	70.557	-1000.00000
-128.725	5094.091	74.423	-1000.00000
-128.725	5094.091	74.423	-1000.00000
-128.725	5094.091	74.423	-1000.00000
-128.725	5094.091	74.423	-1000.00000
-128.725	5094.091	74.423	-1000.00000
-128.725	5094.091	74.423	-1000.00000
-128.725	5094.091	74.423	-1000.00000
-128.725	5094.091	74.423	-1000.00000
-128.725	5094.091	74.423	-1000.00000
-128.725	5094.091	74.423	-1000.00000
-128.725	5094.091	74.423	-1000.00000
-128.725	5098.043	78.061	268.48700
-128.725	5098.043	78.084	99.13490
-128.725	5098.043	78.106	61.07340
-128.725	5098.043	78.129	44.22990
-128.725	5098.043	78.151	34.72180
-128.725	5098.043	78.173	28.61200
-128.725	5098.043	78.196	24.35400
-128.725	5098.043	78.218	21.21660

-128.725	5098.043	78.241	18.80860
-128.725	5098.043	78.263	16.90220
-128.725	5098.043	78.285	15.35530
-128.725	5101.995	80.910	76.52940
-128.725	5101.995	81.030	22.64850
-128.725	5101.995	81.151	12.32440
-128.725	5101.995	81.271	8.36707
-128.725	5101.995	81.391	6.32739
-128.725	5101.995	81.512	5.09990
-128.725	5101.995	81.632	4.28679
-128.725	5101.995	81.752	3.67571
-128.725	5101.995	81.872	3.22961
-128.725	5101.995	81.993	2.89786
-128.725	5101.995	82.113	2.64172
-128.725	5105.946	83.759	36.53460
-128.725	5105.946	83.978	11.02720
-128.725	5105.946	84.197	6.14529
-128.725	5105.946	84.415	4.29209
-128.725	5105.946	84.634	3.36514
-128.725	5105.946	84.853	2.81148
-128.725	5105.946	85.072	2.44491
-128.725	5105.946	85.290	2.18531
-128.725	5105.946	85.509	1.99249
-128.725	5105.946	85.728	1.80964
-128.725	5105.946	85.946	1.66993
-128.725	5109.898	86.609	19.39410
-128.725	5109.898	86.926	7.20841
-128.725	5109.898	87.244	4.33098
-128.725	5109.898	87.562	3.18541
-128.725	5109.898	87.879	2.57801
-128.725	5109.898	88.197	2.20533
-128.725	5109.898	88.515	1.95536
-128.725	5109.898	88.832	1.77731
-128.725	5109.898	89.150	1.61091
-128.725	5109.898	89.468	1.49122
-128.725	5109.898	89.785	1.40367
-128.725	5113.850	89.458	11.53270
-128.725	5113.850	89.875	6.02326
-128.725	5113.850	90.292	3.72562
-128.725	5113.850	90.709	2.76774
-128.725	5113.850	91.126	2.26165
-128.725	5113.850	91.543	1.95338
-128.725	5113.850	91.960	1.74839
-128.725	5113.850	92.377	1.59016
-128.725	5113.850	92.795	1.45647
-128.725	5113.850	93.212	1.36621
-128.725	5113.850	93.629	1.30561
-128.725	5117.802	92.308	7.92277
-128.725	5117.802	92.825	5.21679
-128.725	5117.802	93.342	3.50737
-128.725	5117.802	93.858	2.58645
-128.725	5117.802	94.375	2.11348
-128.725	5117.802	94.892	1.83144
-128.725	5117.802	95.409	1.64716

APPENDIX II

FIGURE 1 A-A' DATA

-128.725	5117.802	95.926	1.50007
-128.725	5117.802	96.442	1.38557
-128.725	5117.802	96.959	1.31470
-128.725	5117.802	97.476	1.27171
-128.725	5121.754	95.187	6.84117
-128.725	5121.754	95.802	4.68736
-128.725	5121.754	96.416	3.42965
-128.725	5121.754	97.030	2.49875
-128.725	5121.754	97.644	2.03633
-128.725	5121.754	98.258	1.76698
-128.725	5121.754	98.872	1.59557
-128.725	5121.754	99.486	1.45450
-128.725	5121.754	100.100	1.35421
-128.725	5121.754	100.715	1.29762
-128.725	5121.754	101.329	1.26943
-128.725	5125.705	98.141	6.58829
-128.725	5125.705	98.846	4.24027
-128.725	5125.705	99.550	3.36868
-128.725	5125.705	100.255	2.43877
-128.725	5125.705	100.960	1.98732
-128.725	5125.705	101.665	1.72874
-128.725	5125.705	102.369	1.56630
-128.725	5125.705	103.074	1.43200
-128.725	5125.705	103.779	1.34361
-128.725	5125.705	104.484	1.29909
-128.725	5125.705	105.188	1.28110
-128.725	5129.657	101.162	6.31140
-128.725	5129.657	101.951	3.88335
-128.725	5129.657	102.741	3.24915
-128.725	5129.657	103.530	2.39924
-128.725	5129.657	104.319	1.95765
-128.725	5129.657	105.108	1.70789
-128.725	5129.657	105.898	1.55255
-128.725	5129.657	106.687	1.42406
-128.725	5129.657	107.476	1.34589
-128.725	5129.657	108.265	1.31244
-128.725	5129.657	109.055	1.30790
-128.725	5133.609	104.246	6.07342
-128.725	5133.609	105.114	3.60485
-128.725	5133.609	105.982	3.12690
-128.725	5133.609	106.850	2.37529
-128.725	5133.609	107.718	1.94188
-128.725	5133.609	108.586	1.70029
-128.725	5133.609	109.454	1.54940
-128.725	5133.609	110.322	1.42584
-128.725	5133.609	111.190	1.35803
-128.725	5133.609	112.058	1.33723
-128.725	5133.609	112.926	1.33775
-128.725	5137.561	107.386	5.88399
-128.725	5137.561	108.328	3.38909
-128.725	5137.561	109.269	3.03627
-128.725	5137.561	110.211	2.36334
-128.725	5137.561	111.153	1.93639
-128.725	5137.561	112.095	1.70018

APPENDIX II

FIGURE 1 A-A' DATA

-128.725	5137.561	113.037	1.55378
-128.725	5137.561	113.978	1.43490
-128.725	5137.561	114.920	1.37936
-128.725	5137.561	115.862	1.36288
-128.725	5137.561	116.804	1.36810
-128.725	5141.513	110.578	5.73836
-128.725	5141.513	111.589	3.22218
-128.725	5141.513	112.600	2.97014
-128.725	5141.513	113.610	2.36076
-128.725	5141.513	114.621	1.93868
-128.725	5141.513	115.632	1.70660
-128.725	5141.513	116.643	1.56365
-128.725	5141.513	117.653	1.45428
-128.725	5141.513	118.664	1.40117
-128.725	5141.513	119.675	1.38888
-128.725	5141.513	120.686	1.39846
-128.725	5145.464	113.818	5.62920
-128.725	5145.464	114.894	3.09309
-128.725	5145.464	115.969	2.92317
-128.725	5145.464	117.044	2.36562
-128.725	5145.464	118.120	1.94698
-128.725	5145.464	119.195	1.71796
-128.725	5145.464	120.270	1.58234
-128.725	5145.464	121.346	1.47368
-128.725	5145.464	122.421	1.42314
-128.725	5145.464	123.497	1.41487
-128.725	5145.464	124.572	1.42851
-128.725	5149.416	117.102	5.54974
-128.725	5149.416	118.238	2.99346
-128.725	5149.416	119.374	2.89132
-128.725	5149.416	120.510	2.37641
-128.725	5149.416	121.646	1.95998
-128.725	5149.416	122.782	1.73316
-128.725	5149.416	123.918	1.60445
-128.725	5149.416	125.054	1.49292
-128.725	5149.416	126.190	1.44504
-128.725	5149.416	127.326	1.44063
-128.725	5149.416	128.463	1.45803
-124.773	5070.380	50.411	-1000.00000
-124.773	5070.380	50.411	-1000.00000
-124.773	5070.380	50.411	-1000.00000
-124.773	5070.380	50.411	-1000.00000
-124.773	5070.380	50.411	-1000.00000
-124.773	5070.380	50.411	-1000.00000
-124.773	5070.380	50.411	-1000.00000
-124.773	5070.380	50.411	-1000.00000
-124.773	5070.380	50.411	-1000.00000
-124.773	5070.380	50.411	-1000.00000
-124.773	5070.380	50.411	-1000.00000
-124.773	5070.380	50.411	-1000.00000
-124.773	5070.380	50.411	-1000.00000
-124.773	5070.380	50.411	-1000.00000
-124.773	5074.332	54.273	-1000.00000
-124.773	5074.332	54.273	-1000.00000
-124.773	5074.332	54.273	-1000.00000
-124.773	5074.332	54.273	-1000.00000
-124.773	5074.332	54.273	-1000.00000

-124.773	5094.091	72.980	6.74976
-124.773	5094.091	73.094	5.42496
-124.773	5094.091	73.208	4.54854
-124.773	5094.091	73.322	3.92944
-124.773	5094.091	73.436	3.47084
-124.773	5094.091	73.550	3.09081
-124.773	5094.091	73.664	2.77241
-124.773	5098.043	75.374	40.30190
-124.773	5098.043	75.588	11.37460
-124.773	5098.043	75.802	6.41853
-124.773	5098.043	76.017	4.49484
-124.773	5098.043	76.231	3.46171
-124.773	5098.043	76.446	2.83580
-124.773	5098.043	76.660	2.43820
-124.773	5098.043	76.874	2.13352
-124.773	5098.043	77.089	1.90078
-124.773	5098.043	77.303	1.73187
-124.773	5098.043	77.517	1.60573
-124.773	5101.995	78.224	25.08400
-124.773	5101.995	78.539	7.34067
-124.773	5101.995	78.854	4.19600
-124.773	5101.995	79.169	3.04977
-124.773	5101.995	79.484	2.46148
-124.773	5101.995	79.799	2.10623
-124.773	5101.995	80.114	1.86154
-124.773	5101.995	80.430	1.65546
-124.773	5101.995	80.745	1.51434
-124.773	5101.995	81.060	1.41644
-124.773	5101.995	81.375	1.34487
-124.773	5105.946	81.074	15.07570
-124.773	5105.946	81.491	5.49422
-124.773	5105.946	81.907	3.39508
-124.773	5105.946	82.323	2.55357
-124.773	5105.946	82.739	2.10750
-124.773	5105.946	83.155	1.83476
-124.773	5105.946	83.571	1.63633
-124.773	5105.946	83.987	1.47851
-124.773	5105.946	84.403	1.37425
-124.773	5105.946	84.819	1.30527
-124.773	5105.946	85.236	1.25972
-124.773	5109.898	83.925	9.93305
-124.773	5109.898	84.443	4.96580
-124.773	5109.898	84.960	3.09538
-124.773	5109.898	85.477	2.34457
-124.773	5109.898	85.995	1.94964
-124.773	5109.898	86.512	1.71053
-124.773	5109.898	87.030	1.53766
-124.773	5109.898	87.547	1.40015
-124.773	5109.898	88.064	1.31644
-124.773	5109.898	88.582	1.26596
-124.773	5109.898	89.099	1.23819
-124.773	5113.850	86.776	7.35619
-124.773	5113.850	87.395	4.65735
-124.773	5113.850	88.014	3.00626

APPENDIX II

FIGURE 1 A-A' DATA

-124.773	5113.850	88.633	2.26047
-124.773	5113.850	89.252	1.87895
-124.773	5113.850	89.871	1.65281
-124.773	5113.850	90.490	1.49373
-124.773	5113.850	91.109	1.36732
-124.773	5113.850	91.728	1.29659
-124.773	5113.850	92.347	1.26046
-124.773	5113.850	92.965	1.24386
-124.773	5117.802	89.658	5.96364
-124.773	5117.802	90.376	4.29451
-124.773	5117.802	91.094	3.00116
-124.773	5117.802	91.811	2.23029
-124.773	5117.802	92.529	1.84849
-124.773	5117.802	93.247	1.62733
-124.773	5117.802	93.965	1.47759
-124.773	5117.802	94.682	1.35730
-124.773	5117.802	95.400	1.29623
-124.773	5117.802	96.118	1.27070
-124.773	5117.802	96.836	1.26470
-124.773	5121.754	92.619	5.84910
-124.773	5121.754	93.428	3.96765
-124.773	5121.754	94.237	2.99920
-124.773	5121.754	95.047	2.21355
-124.773	5121.754	95.856	1.83324
-124.773	5121.754	96.665	1.61782
-124.773	5121.754	97.475	1.47443
-124.773	5121.754	98.284	1.35932
-124.773	5121.754	99.093	1.30688
-124.773	5121.754	99.903	1.28996
-124.773	5121.754	100.712	1.29626
-124.773	5125.705	95.651	5.68983
-124.773	5125.705	96.545	3.69473
-124.773	5125.705	97.439	3.00276
-124.773	5125.705	98.333	2.20758
-124.773	5125.705	99.228	1.82910
-124.773	5125.705	100.122	1.61732
-124.773	5125.705	101.016	1.48010
-124.773	5125.705	101.911	1.36934
-124.773	5125.705	102.805	1.32614
-124.773	5125.705	103.699	1.32049
-124.773	5125.705	104.594	1.33147
-124.773	5129.657	98.747	5.54486
-124.773	5129.657	99.721	3.47514
-124.773	5129.657	100.694	2.97488
-124.773	5129.657	101.667	2.21036
-124.773	5129.657	102.641	1.83332
-124.773	5129.657	103.614	1.62438
-124.773	5129.657	104.587	1.49200
-124.773	5129.657	105.560	1.38598
-124.773	5129.657	106.534	1.35284
-124.773	5129.657	107.507	1.35112
-124.773	5129.657	108.480	1.36643
-124.773	5133.609	101.903	5.42892
-124.773	5133.609	102.950	3.30154

APPENDIX II

FIGURE 1 A-A' DATA

-124.773	5133.609	103.997	2.91366
-124.773	5133.609	105.044	2.22024
-124.773	5133.609	106.091	1.84397
-124.773	5133.609	107.138	1.63705
-124.773	5133.609	108.184	1.50846
-124.773	5133.609	109.231	1.41049
-124.773	5133.609	110.278	1.37938
-124.773	5133.609	111.325	1.38145
-124.773	5133.609	112.372	1.40079
-124.773	5137.561	105.113	5.34240
-124.773	5137.561	106.229	3.16560
-124.773	5137.561	107.344	2.87075
-124.773	5137.561	108.459	2.23585
-124.773	5137.561	109.575	1.85960
-124.773	5137.561	110.690	1.65398
-124.773	5137.561	111.805	1.53348
-124.773	5137.561	112.921	1.43448
-124.773	5137.561	114.036	1.40554
-124.773	5137.561	115.152	1.41127
-124.773	5137.561	116.267	1.43434
-124.773	5141.513	108.372	5.28179
-124.773	5141.513	109.552	3.05992
-124.773	5141.513	110.731	2.84259
-124.773	5141.513	111.910	2.25616
-124.773	5141.513	113.090	1.88011
-124.773	5141.513	114.269	1.67420
-124.773	5141.513	115.448	1.55863
-124.773	5141.513	116.628	1.45785
-124.773	5141.513	117.807	1.43116
-124.773	5141.513	118.987	1.44039
-124.773	5141.513	120.166	1.46695
-124.773	5145.464	111.676	5.24301
-124.773	5145.464	112.915	2.97848
-124.773	5145.464	114.154	2.82635
-124.773	5145.464	115.394	2.28029
-124.773	5145.464	116.633	1.90271
-124.773	5145.464	117.872	1.70395
-124.773	5145.464	119.111	1.58266
-124.773	5145.464	120.351	1.48049
-124.773	5145.464	121.590	1.45615
-124.773	5145.464	122.829	1.46875
-124.773	5145.464	124.068	1.49853
-124.773	5149.416	115.021	5.22239
-124.773	5149.416	116.316	2.91649
-124.773	5149.416	117.611	2.81981
-124.773	5149.416	118.907	2.30757
-124.773	5149.416	120.202	1.92784
-124.773	5149.416	121.497	1.73381
-124.773	5149.416	122.793	1.60568
-124.773	5149.416	124.088	1.50238
-124.773	5149.416	125.383	1.48043
-124.773	5149.416	126.679	1.49627
-124.773	5149.416	127.974	1.52907
-120.821	5070.380	49.693	-1000.00000

-120.821	5070.380	49.693	-1000.00000
-120.821	5070.380	49.693	-1000.00000
-120.821	5070.380	49.693	-1000.00000
-120.821	5070.380	49.693	-1000.00000
-120.821	5070.380	49.693	-1000.00000
-120.821	5070.380	49.693	-1000.00000
-120.821	5070.380	49.693	-1000.00000
-120.821	5070.380	49.693	-1000.00000
-120.821	5070.380	49.693	-1000.00000
-120.821	5070.380	49.693	-1000.00000
-120.821	5074.332	53.607	-1000.00000
-120.821	5074.332	53.607	-1000.00000
-120.821	5074.332	53.607	-1000.00000
-120.821	5074.332	53.607	-1000.00000
-120.821	5074.332	53.607	-1000.00000
-120.821	5074.332	53.607	-1000.00000
-120.821	5074.332	53.607	-1000.00000
-120.821	5074.332	53.607	-1000.00000
-120.821	5074.332	53.607	-1000.00000
-120.821	5074.332	53.607	-1000.00000
-120.821	5078.284	57.526	-1000.00000
-120.821	5078.284	57.526	-1000.00000
-120.821	5078.284	57.526	-1000.00000
-120.821	5078.284	57.526	-1000.00000
-120.821	5078.284	57.526	-1000.00000
-120.821	5078.284	57.526	-1000.00000
-120.821	5078.284	57.526	-1000.00000
-120.821	5078.284	57.526	-1000.00000
-120.821	5078.284	57.526	-1000.00000
-120.821	5078.284	57.526	-1000.00000
-120.821	5082.235	61.291	212.81500
-120.821	5082.235	61.306	76.39220
-120.821	5082.235	61.321	46.73500
-120.821	5082.235	61.336	33.76010
-120.821	5082.235	61.351	26.48140
-120.821	5082.235	61.366	21.82310
-120.821	5082.235	61.381	18.58610
-120.821	5082.235	61.396	16.20590
-120.821	5082.235	61.411	14.38210
-120.821	5082.235	61.426	12.94010
-120.821	5082.235	61.441	11.77130
-120.821	5086.187	64.142	27.82660
-120.821	5086.187	64.259	13.96050
-120.821	5086.187	64.376	9.49477
-120.821	5086.187	64.493	7.27401
-120.821	5086.187	64.610	5.94340
-120.821	5086.187	64.727	5.05583
-120.821	5086.187	64.844	4.35596
-120.821	5086.187	64.961	3.71056
-120.821	5086.187	65.077	3.22697
-120.821	5086.187	65.194	2.86588
-120.821	5086.187	65.311	2.58814

-120.821	5090.139	66.993	29.15010
-120.821	5090.139	67.212	10.79250
-120.821	5090.139	67.431	6.30022
-120.821	5090.139	67.651	4.41233
-120.821	5090.139	67.870	3.43229
-120.821	5090.139	68.089	2.79982
-120.821	5090.139	68.308	2.35619
-120.821	5090.139	68.527	2.04141
-120.821	5090.139	68.746	1.81822
-120.821	5090.139	68.965	1.65981
-120.821	5090.139	69.184	1.54349
-120.821	5094.091	69.844	25.03080
-120.821	5094.091	70.166	7.22305
-120.821	5094.091	70.487	4.21363
-120.821	5094.091	70.809	2.99429
-120.821	5094.091	71.130	2.37749
-120.821	5094.091	71.452	1.98435
-120.821	5094.091	71.773	1.71845
-120.821	5094.091	72.095	1.54606
-120.821	5094.091	72.416	1.43118
-120.821	5094.091	72.738	1.34952
-120.821	5094.091	73.059	1.29181
-120.821	5098.043	72.696	17.90510
-120.821	5098.043	73.120	5.28230
-120.821	5098.043	73.544	3.17814
-120.821	5098.043	73.968	2.38447
-120.821	5098.043	74.392	1.97328
-120.821	5098.043	74.816	1.69833
-120.821	5098.043	75.240	1.50329
-120.821	5098.043	75.664	1.38247
-120.821	5098.043	76.088	1.30369
-120.821	5098.043	76.512	1.25283
-120.821	5098.043	76.936	1.22180
-120.821	5101.995	75.547	12.04960
-120.821	5101.995	76.074	4.39187
-120.821	5101.995	76.601	2.78824
-120.821	5101.995	77.128	2.14439
-120.821	5101.995	77.654	1.80453
-120.821	5101.995	78.181	1.58195
-120.821	5101.995	78.708	1.41589
-120.821	5101.995	79.235	1.31700
-120.821	5101.995	79.762	1.25869
-120.821	5101.995	80.288	1.22686
-120.821	5101.995	80.815	1.21022
-120.821	5105.946	78.399	8.64936
-120.821	5105.946	79.028	4.15134
-120.821	5105.946	79.658	2.64646
-120.821	5105.946	80.288	2.04503
-120.821	5105.946	80.917	1.73086
-120.821	5105.946	81.547	1.53870
-120.821	5105.946	82.177	1.38062
-120.821	5105.946	82.806	1.29440
-120.821	5105.946	83.436	1.25044
-120.821	5105.946	84.066	1.22989

APPENDIX II

FIGURE 1 A-A' DATA

-120.821	5105.946	84.695	1.22519
-120.821	5109.898	81.250	6.77790
-120.821	5109.898	81.983	4.19061
-120.821	5109.898	82.716	2.63106
-120.821	5109.898	83.448	2.01796
-120.821	5109.898	84.181	1.70635
-120.821	5109.898	84.913	1.52450
-120.821	5109.898	85.646	1.37329
-120.821	5109.898	86.379	1.29362
-120.821	5109.898	87.111	1.25892
-120.821	5109.898	87.844	1.24850
-120.821	5109.898	88.577	1.25380
-120.821	5113.850	84.136	5.25318
-120.821	5113.850	84.968	3.94822
-120.821	5113.850	85.801	2.66996
-120.821	5113.850	86.633	2.02405
-120.821	5113.850	87.466	1.70591
-120.821	5113.850	88.298	1.52426
-120.821	5113.850	89.131	1.38061
-120.821	5113.850	89.963	1.30456
-120.821	5113.850	90.796	1.27745
-120.821	5113.850	91.628	1.27613
-120.821	5113.850	92.461	1.29135
-120.821	5117.802	87.104	5.23405
-120.821	5117.802	88.028	3.71520
-120.821	5117.802	88.953	2.70649
-120.821	5117.802	89.878	2.03642
-120.821	5117.802	90.802	1.71379
-120.821	5117.802	91.727	1.53255
-120.821	5117.802	92.652	1.39490
-120.821	5117.802	93.576	1.32206
-120.821	5117.802	94.501	1.30212
-120.821	5117.802	95.426	1.31090
-120.821	5117.802	96.350	1.33184
-120.821	5121.754	90.147	5.16200
-120.821	5121.754	91.157	3.51224
-120.821	5121.754	92.167	2.74336
-120.821	5121.754	93.176	2.05425
-120.821	5121.754	94.186	1.72805
-120.821	5121.754	95.196	1.54705
-120.821	5121.754	96.206	1.41411
-120.821	5121.754	97.215	1.34552
-120.821	5121.754	98.225	1.33388
-120.821	5121.754	99.235	1.34632
-120.821	5121.754	100.244	1.37133
-120.821	5125.705	93.259	5.08939
-120.821	5125.705	94.347	3.34445
-120.821	5125.705	95.436	2.78224
-120.821	5125.705	96.524	2.07684
-120.821	5125.705	97.612	1.74839
-120.821	5125.705	98.701	1.56621
-120.821	5125.705	99.789	1.43689
-120.821	5125.705	100.878	1.37470
-120.821	5125.705	101.966	1.36490

APPENDIX II

FIGURE 1 A-A' DATA

-120.821	5125.705	103.055	1.38085
-120.821	5125.705	104.143	1.40962
-120.821	5129.657	96.432	5.03273
-120.821	5129.657	97.593	3.20966
-120.821	5129.657	98.755	2.80394
-120.821	5129.657	99.916	2.10348
-120.821	5129.657	101.077	1.77149
-120.821	5129.657	102.239	1.58892
-120.821	5129.657	103.400	1.46763
-120.821	5129.657	104.561	1.40290
-120.821	5129.657	105.723	1.39504
-120.821	5129.657	106.884	1.41436
-120.821	5129.657	108.046	1.44659
-120.821	5133.609	99.661	4.99528
-120.821	5133.609	100.890	3.10337
-120.821	5133.609	102.119	2.78184
-120.821	5133.609	103.348	2.13352
-120.821	5133.609	104.577	1.79774
-120.821	5133.609	105.806	1.61519
-120.821	5133.609	107.035	1.49774
-120.821	5133.609	108.264	1.43007
-120.821	5133.609	109.493	1.42421
-120.821	5133.609	110.723	1.44677
-120.821	5133.609	111.952	1.48221
-120.821	5137.561	102.940	4.97595
-120.821	5137.561	104.232	3.02088
-120.821	5137.561	105.525	2.77095
-120.821	5137.561	106.817	2.16641
-120.821	5137.561	108.109	1.82650
-120.821	5137.561	109.401	1.64957
-120.821	5137.561	110.693	1.52643
-120.821	5137.561	111.985	1.45617
-120.821	5137.561	113.277	1.45238
-120.821	5137.561	114.569	1.47803
-120.821	5137.561	115.861	1.51647
-120.821	5141.513	106.266	4.97250
-120.821	5141.513	107.617	2.95797
-120.821	5141.513	108.967	2.76935
-120.821	5141.513	110.318	2.20166
-120.821	5141.513	111.669	1.85728
-120.821	5141.513	113.019	1.68229
-120.821	5141.513	114.370	1.55370
-120.821	5141.513	115.721	1.48119
-120.821	5141.513	117.071	1.47952
-120.821	5141.513	118.422	1.50815
-120.821	5141.513	119.773	1.54936
-120.821	5145.464	109.633	4.98258
-120.821	5145.464	111.038	2.91114
-120.821	5145.464	112.444	2.77542
-120.821	5145.464	113.849	2.23888
-120.821	5145.464	115.255	1.89486
-120.821	5145.464	116.660	1.71328
-120.821	5145.464	118.066	1.57956
-120.821	5145.464	119.471	1.50515

APPENDIX II

FIGURE 1 A-A' DATA

-120.821	5145.464	120.877	1.50562
-120.821	5145.464	122.282	1.53712
-120.821	5145.464	123.688	1.58093
-120.821	5149.416	113.038	5.00410
-120.821	5149.416	114.495	2.87753
-120.821	5149.416	115.951	2.78788
-120.821	5149.416	117.408	2.27775
-120.821	5149.416	118.865	1.93655
-120.821	5149.416	120.321	1.74253
-120.821	5149.416	121.778	1.60405
-120.821	5149.416	123.235	1.52805
-120.821	5149.416	124.691	1.53072
-120.821	5149.416	126.148	1.56497
-120.821	5149.416	127.605	1.61120
-116.870	5070.380	49.282	-1000.00000
-116.870	5070.380	49.282	-1000.00000
-116.870	5070.380	49.282	-1000.00000
-116.870	5070.380	49.282	-1000.00000
-116.870	5070.380	49.282	-1000.00000
-116.870	5070.380	49.282	-1000.00000
-116.870	5070.380	49.282	-1000.00000
-116.870	5070.380	49.282	-1000.00000
-116.870	5070.380	49.282	-1000.00000
-116.870	5070.380	49.282	-1000.00000
-116.870	5070.380	49.282	-1000.00000
-116.870	5074.332	52.916	108.93000
-116.870	5074.332	52.945	39.29270
-116.870	5074.332	52.975	24.15430
-116.870	5074.332	53.004	17.53140
-116.870	5074.332	53.034	13.81620
-116.870	5074.332	53.063	11.05860
-116.870	5074.332	53.092	9.09193
-116.870	5074.332	53.122	7.71434
-116.870	5074.332	53.151	6.70179
-116.870	5074.332	53.181	5.92973
-116.870	5074.332	53.210	5.32369
-116.870	5078.284	55.768	24.54380
-116.870	5078.284	55.901	9.15482
-116.870	5078.284	56.034	6.10015
-116.870	5078.284	56.167	4.87460
-116.870	5078.284	56.300	4.00556
-116.870	5078.284	56.433	3.43774
-116.870	5078.284	56.566	3.03879
-116.870	5078.284	56.699	2.74392
-116.870	5078.284	56.832	2.51762
-116.870	5078.284	56.965	2.33896
-116.870	5078.284	57.098	2.19465
-116.870	5082.235	58.620	17.18630
-116.870	5082.235	58.857	7.92468
-116.870	5082.235	59.093	5.30757
-116.870	5082.235	59.330	4.00650
-116.870	5082.235	59.566	3.03993
-116.870	5082.235	59.803	2.47535
-116.870	5082.235	60.040	2.11913

-116.870	5082.235	60.276	1.87877
-116.870	5082.235	60.513	1.70855
-116.870	5082.235	60.750	1.58369
-116.870	5082.235	60.986	1.48751
-116.870	5086.187	61.472	18.97220
-116.870	5086.187	61.812	6.81735
-116.870	5086.187	62.153	3.99117
-116.870	5086.187	62.493	2.88746
-116.870	5086.187	62.833	2.23001
-116.870	5086.187	63.174	1.84087
-116.870	5086.187	63.514	1.60555
-116.870	5086.187	63.854	1.45759
-116.870	5086.187	64.195	1.36171
-116.870	5086.187	64.535	1.29515
-116.870	5086.187	64.875	1.24952
-116.870	5090.139	64.324	17.07940
-116.870	5090.139	64.768	5.13644
-116.870	5090.139	65.212	3.06998
-116.870	5090.139	65.656	2.25490
-116.870	5090.139	66.100	1.81083
-116.870	5090.139	66.545	1.54946
-116.870	5090.139	66.989	1.39895
-116.870	5090.139	67.433	1.30569
-116.870	5090.139	67.877	1.24790
-116.870	5090.139	68.321	1.21383
-116.870	5090.139	68.765	1.19317
-116.870	5094.091	67.176	13.37010
-116.870	5094.091	67.724	4.08018
-116.870	5094.091	68.272	2.55937
-116.870	5094.091	68.820	1.97648
-116.870	5094.091	69.368	1.65445
-116.870	5094.091	69.916	1.44030
-116.870	5094.091	70.464	1.31992
-116.870	5094.091	71.012	1.25189
-116.870	5094.091	71.559	1.21588
-116.870	5094.091	72.107	1.19783
-116.870	5094.091	72.655	1.19246
-116.870	5098.043	70.028	9.93568
-116.870	5098.043	70.680	3.62985
-116.870	5098.043	71.332	2.36789
-116.870	5098.043	71.983	1.86277
-116.870	5098.043	72.635	1.59839
-116.870	5098.043	73.287	1.39906
-116.870	5098.043	73.939	1.29272
-116.870	5098.043	74.591	1.23996
-116.870	5098.043	75.242	1.21583
-116.870	5098.043	75.894	1.21017
-116.870	5098.043	76.546	1.21619
-116.870	5101.995	72.880	7.59499
-116.870	5101.995	73.636	3.54608
-116.870	5101.995	74.391	2.31465
-116.870	5101.995	75.147	1.82593
-116.870	5101.995	75.903	1.57326
-116.870	5101.995	76.658	1.39329

APPENDIX II

FIGURE 1 A-A' DATA

-116.870	5101.995	77.414	1.29107
-116.870	5101.995	78.170	1.24662
-116.870	5101.995	78.925	1.23230
-116.870	5101.995	79.681	1.23658
-116.870	5101.995	80.437	1.25218
-116.870	5105.946	75.732	6.22118
-116.870	5105.946	76.592	3.68117
-116.870	5105.946	77.451	2.34339
-116.870	5105.946	78.311	1.83407
-116.870	5105.946	79.171	1.57907
-116.870	5105.946	80.030	1.40924
-116.870	5105.946	80.890	1.30388
-116.870	5105.946	81.749	1.26425
-116.870	5105.946	82.609	1.25775
-116.870	5105.946	83.468	1.26943
-116.870	5105.946	84.328	1.29540
-116.870	5109.898	78.620	4.66879
-116.870	5109.898	79.580	3.64442
-116.870	5109.898	80.540	2.40986
-116.870	5109.898	81.501	1.86392
-116.870	5109.898	82.461	1.59859
-116.870	5109.898	83.421	1.43767
-116.870	5109.898	84.381	1.32477
-116.870	5109.898	85.341	1.28684
-116.870	5109.898	86.301	1.28842
-116.870	5109.898	87.261	1.31062
-116.870	5109.898	88.221	1.34088
-116.870	5113.850	81.597	4.71695
-116.870	5113.850	82.649	3.48534
-116.870	5113.850	83.701	2.47227
-116.870	5113.850	84.754	1.89650
-116.870	5113.850	85.806	1.62272
-116.870	5113.850	86.858	1.46909
-116.870	5113.850	87.910	1.34971
-116.870	5113.850	88.963	1.31610
-116.870	5113.850	90.015	1.32472
-116.870	5113.850	91.067	1.35050
-116.870	5113.850	92.120	1.38466
-116.870	5117.802	84.653	4.71085
-116.870	5117.802	85.790	3.34067
-116.870	5117.802	86.927	2.53284
-116.870	5117.802	88.064	1.93170
-116.870	5117.802	89.201	1.65051
-116.870	5117.802	90.338	1.49481
-116.870	5117.802	91.474	1.37796
-116.870	5117.802	92.611	1.34929
-116.870	5117.802	93.748	1.35979
-116.870	5117.802	94.885	1.38894
-116.870	5117.802	96.022	1.42667
-116.870	5121.754	87.781	4.69556
-116.870	5121.754	88.996	3.21814
-116.870	5121.754	90.210	2.59316
-116.870	5121.754	91.425	1.96934
-116.870	5121.754	92.640	1.68126

APPENDIX II

FIGURE 1 A-A' DATA

-116.870	5121.754	93.855	1.52339
-116.870	5121.754	95.070	1.41273
-116.870	5121.754	96.284	1.38116
-116.870	5121.754	97.499	1.39355
-116.870	5121.754	98.714	1.42591
-116.870	5121.754	99.929	1.46689
-116.870	5125.705	90.973	4.68752
-116.870	5125.705	92.260	3.11867
-116.870	5125.705	93.546	2.65409
-116.870	5125.705	94.833	2.00918
-116.870	5125.705	96.119	1.71439
-116.870	5125.705	97.406	1.55670
-116.870	5125.705	98.692	1.44595
-116.870	5125.705	99.979	1.41167
-116.870	5125.705	101.266	1.42598
-116.870	5125.705	102.552	1.46137
-116.870	5125.705	103.839	1.50531
-116.870	5129.657	94.223	4.69147
-116.870	5129.657	95.576	3.04034
-116.870	5129.657	96.929	2.70413
-116.870	5129.657	98.282	2.05091
-116.870	5129.657	99.635	1.74943
-116.870	5129.657	100.987	1.59427
-116.870	5129.657	102.340	1.47759
-116.870	5129.657	103.693	1.44082
-116.870	5129.657	105.046	1.45708
-116.870	5129.657	106.399	1.49537
-116.870	5129.657	107.752	1.54184
-116.870	5133.609	97.525	4.70781
-116.870	5133.609	98.939	2.98037
-116.870	5133.609	100.353	2.70918
-116.870	5133.609	101.768	2.09426
-116.870	5133.609	103.182	1.78600
-116.870	5133.609	104.596	1.63003
-116.870	5133.609	106.011	1.50764
-116.870	5133.609	107.425	1.46864
-116.870	5133.609	108.839	1.48687
-116.870	5133.609	110.254	1.52792
-116.870	5133.609	111.668	1.57673
-116.870	5137.561	100.874	4.73552
-116.870	5137.561	102.345	2.93595
-116.870	5137.561	103.816	2.72135
-116.870	5137.561	105.288	2.13897
-116.870	5137.561	106.759	1.83158
-116.870	5137.561	108.230	1.66391
-116.870	5137.561	109.701	1.53611
-116.870	5137.561	111.173	1.49514
-116.870	5137.561	112.644	1.51536
-116.870	5137.561	114.115	1.55906
-116.870	5137.561	115.587	1.61001
-116.870	5141.513	104.265	4.77319
-116.870	5141.513	105.789	2.90458
-116.870	5141.513	107.313	2.73950
-116.870	5141.513	108.838	2.18481

APPENDIX II

FIGURE 1 A-A' DATA

-116.870	5141.513	110.362	1.87596
-116.870	5141.513	111.886	1.69589
-116.870	5141.513	113.410	1.56303
-116.870	5141.513	114.935	1.52036
-116.870	5141.513	116.459	1.54261
-116.870	5141.513	117.983	1.58885
-116.870	5141.513	119.508	1.64176
-116.870	5145.464	107.694	4.81945
-116.870	5145.464	109.268	2.88413
-116.870	5145.464	110.842	2.76271
-116.870	5145.464	112.415	2.23159
-116.870	5145.464	113.989	1.91775
-116.870	5145.464	115.563	1.72595
-116.870	5145.464	117.136	1.58845
-116.870	5145.464	118.710	1.54434
-116.870	5145.464	120.283	1.56864
-116.870	5145.464	121.857	1.61732
-116.870	5145.464	123.431	1.67210
-116.870	5149.416	111.159	4.87304
-116.870	5149.416	112.779	2.87283
-116.870	5149.416	114.398	2.79017
-116.870	5149.416	116.018	2.27981
-116.870	5149.416	117.638	1.95687
-116.870	5149.416	119.257	1.75413
-116.870	5149.416	120.877	1.61240
-116.870	5149.416	122.497	1.56713
-116.870	5149.416	124.116	1.59350
-116.870	5149.416	125.736	1.64453
-116.870	5149.416	127.356	1.69966
-112.918	5070.380	47.405	19.47100
-112.918	5070.380	47.574	6.53281
-112.918	5070.380	47.742	3.85501
-112.918	5070.380	47.911	2.82581
-112.918	5070.380	48.080	2.29681
-112.918	5070.380	48.249	2.12773
-112.918	5070.380	48.417	1.99402
-112.918	5070.380	48.586	1.88506
-112.918	5070.380	48.755	1.79575
-112.918	5070.380	48.924	1.72176
-112.918	5070.380	49.092	1.65997
-112.918	5074.332	50.257	12.27240
-112.918	5074.332	50.530	5.21032
-112.918	5074.332	50.803	3.55506
-112.918	5074.332	51.076	2.78222
-112.918	5074.332	51.349	2.34731
-112.918	5074.332	51.621	2.07153
-112.918	5074.332	51.894	1.84653
-112.918	5074.332	52.167	1.67296
-112.918	5074.332	52.440	1.55091
-112.918	5074.332	52.713	1.46218
-112.918	5074.332	52.986	1.39613
-112.918	5078.284	53.109	12.03960
-112.918	5078.284	53.486	5.37949
-112.918	5078.284	53.863	3.53650

APPENDIX II

FIGURE 1 A-A' DATA

-112.918	5078.284	54.240	2.47698
-112.918	5078.284	54.617	1.97061
-112.918	5078.284	54.994	1.68760
-112.918	5078.284	55.371	1.51387
-112.918	5078.284	55.748	1.39570
-112.918	5078.284	56.125	1.31469
-112.918	5078.284	56.503	1.26076
-112.918	5078.284	56.880	1.22584
-112.918	5082.235	55.961	13.56520
-112.918	5082.235	56.443	4.74117
-112.918	5082.235	56.924	2.88056
-112.918	5082.235	57.405	2.07384
-112.918	5082.235	57.886	1.65702
-112.918	5082.235	58.367	1.44094
-112.918	5082.235	58.848	1.32230
-112.918	5082.235	59.330	1.25233
-112.918	5082.235	59.811	1.21339
-112.918	5082.235	60.292	1.19127
-112.918	5082.235	60.773	1.18140
-112.918	5086.187	58.814	12.46650
-112.918	5086.187	59.399	3.90735
-112.918	5086.187	59.984	2.39666
-112.918	5086.187	60.570	1.80728
-112.918	5086.187	61.155	1.49119
-112.918	5086.187	61.740	1.33433
-112.918	5086.187	62.326	1.25074
-112.918	5086.187	62.911	1.20891
-112.918	5086.187	63.496	1.18938
-112.918	5086.187	64.081	1.18473
-112.918	5086.187	64.667	1.18966
-112.918	5090.139	61.666	10.38390
-112.918	5090.139	62.355	3.29817
-112.918	5090.139	63.045	2.14882
-112.918	5090.139	63.734	1.70642
-112.918	5090.139	64.424	1.43434
-112.918	5090.139	65.113	1.29628
-112.918	5090.139	65.803	1.23147
-112.918	5090.139	66.492	1.20337
-112.918	5090.139	67.182	1.19743
-112.918	5090.139	67.871	1.20490
-112.918	5090.139	68.560	1.22072
-112.918	5094.091	64.518	8.36625
-112.918	5094.091	65.312	3.07669
-112.918	5094.091	66.105	2.06390
-112.918	5094.091	66.899	1.66172
-112.918	5094.091	67.693	1.42697
-112.918	5094.091	68.486	1.29157
-112.918	5094.091	69.280	1.23478
-112.918	5094.091	70.073	1.21663
-112.918	5094.091	70.867	1.22085
-112.918	5094.091	71.661	1.23810
-112.918	5094.091	72.454	1.26115
-112.918	5098.043	67.370	6.71375
-112.918	5098.043	68.268	3.08325

APPENDIX II

FIGURE 1 A-A' DATA

-112.918	5098.043	69.166	2.06325
-112.918	5098.043	70.064	1.66269
-112.918	5098.043	70.961	1.45191
-112.918	5098.043	71.859	1.30585
-112.918	5098.043	72.757	1.25116
-112.918	5098.043	73.655	1.23981
-112.918	5098.043	74.552	1.25240
-112.918	5098.043	75.450	1.27674
-112.918	5098.043	76.348	1.31035
-112.918	5101.995	70.223	5.70002
-112.918	5101.995	71.224	3.24895
-112.918	5101.995	72.226	2.11944
-112.918	5101.995	73.228	1.69349
-112.918	5101.995	74.230	1.48318
-112.918	5101.995	75.232	1.33297
-112.918	5101.995	76.234	1.27529
-112.918	5101.995	77.236	1.26855
-112.918	5101.995	78.238	1.28819
-112.918	5101.995	79.240	1.32255
-112.918	5101.995	80.242	1.35993
-112.918	5105.946	73.113	4.46821
-112.918	5105.946	74.216	3.37886
-112.918	5105.946	75.318	2.20372
-112.918	5105.946	76.421	1.73942
-112.918	5105.946	77.523	1.51666
-112.918	5105.946	78.625	1.36835
-112.918	5105.946	79.728	1.30274
-112.918	5105.946	80.830	1.30098
-112.918	5105.946	81.933	1.32820
-112.918	5105.946	83.035	1.36625
-112.918	5105.946	84.138	1.40701
-112.918	5109.898	76.099	4.27896
-112.918	5109.898	77.293	3.27872
-112.918	5109.898	78.487	2.28408
-112.918	5109.898	79.681	1.78647
-112.918	5109.898	80.875	1.55276
-112.918	5109.898	82.069	1.40750
-112.918	5109.898	83.263	1.33527
-112.918	5109.898	84.457	1.33724
-112.918	5109.898	85.650	1.36665
-112.918	5109.898	86.844	1.40810
-112.918	5109.898	88.038	1.45190
-112.918	5113.850	79.170	4.32373
-112.918	5113.850	80.447	3.18288
-112.918	5113.850	81.724	2.36202
-112.918	5113.850	83.002	1.83469
-112.918	5113.850	84.279	1.59096
-112.918	5113.850	85.557	1.44971
-112.918	5113.850	86.834	1.37211
-112.918	5113.850	88.111	1.37200
-112.918	5113.850	89.389	1.40351
-112.918	5113.850	90.666	1.44810
-112.918	5113.850	91.944	1.49448
-112.918	5117.802	82.316	4.35472

APPENDIX II

FIGURE 1 A-A' DATA

-112.918	5117.802	83.669	3.09992
-112.918	5117.802	85.023	2.43881
-112.918	5117.802	86.377	1.88408
-112.918	5117.802	87.730	1.63088
-112.918	5117.802	89.084	1.49790
-112.918	5117.802	90.438	1.40742
-112.918	5117.802	91.792	1.40523
-112.918	5117.802	93.145	1.43876
-112.918	5117.802	94.499	1.48627
-112.918	5117.802	95.853	1.53503
-112.918	5121.754	85.529	4.38732
-112.918	5121.754	86.952	3.03250
-112.918	5121.754	88.376	2.51520
-112.918	5121.754	89.800	1.93456
-112.918	5121.754	91.223	1.67219
-112.918	5121.754	92.647	1.53877
-112.918	5121.754	94.071	1.44110
-112.918	5121.754	95.495	1.43691
-112.918	5121.754	96.918	1.47241
-112.918	5121.754	98.342	1.52269
-112.918	5121.754	99.766	1.57358
-112.918	5125.705	88.801	4.42686
-112.918	5125.705	90.289	2.98035
-112.918	5125.705	91.778	2.59164
-112.918	5125.705	93.266	1.98600
-112.918	5125.705	94.754	1.71690
-112.918	5125.705	96.242	1.57770
-112.918	5125.705	97.730	1.47314
-112.918	5125.705	99.218	1.46706
-112.918	5125.705	100.706	1.50451
-112.918	5125.705	102.194	1.55738
-112.918	5125.705	103.682	1.61024
-112.918	5129.657	92.128	4.47462
-112.918	5129.657	93.675	2.94207
-112.918	5129.657	95.222	2.65823
-112.918	5129.657	96.770	2.03825
-112.918	5129.657	98.317	1.76681
-112.918	5129.657	99.864	1.61459
-112.918	5129.657	101.411	1.50351
-112.918	5129.657	102.959	1.49570
-112.918	5129.657	104.506	1.53510
-112.918	5129.657	106.053	1.59045
-112.918	5129.657	107.600	1.64502
-112.918	5133.609	95.502	4.53035
-112.918	5133.609	97.104	2.91590
-112.918	5133.609	98.706	2.68345
-112.918	5133.609	100.308	2.09117
-112.918	5133.609	101.910	1.81413
-112.918	5133.609	103.512	1.64940
-112.918	5133.609	105.114	1.53224
-112.918	5133.609	106.716	1.52289
-112.918	5133.609	108.318	1.56423
-112.918	5133.609	109.920	1.62195
-112.918	5133.609	111.522	1.67754

APPENDIX II

FIGURE 1 A-A' DATA

-112.918	5137.561	98.919	4.59329
-112.918	5137.561	100.572	2.90012
-112.918	5137.561	102.225	2.71326
-112.918	5137.561	103.877	2.14533
-112.918	5137.561	105.530	1.85871
-112.918	5137.561	107.182	1.68213
-112.918	5137.561	108.835	1.55936
-112.918	5137.561	110.488	1.54867
-112.918	5137.561	112.140	1.59196
-112.918	5137.561	113.793	1.65195
-112.918	5137.561	115.445	1.70754
-112.918	5141.513	102.375	4.66257
-112.918	5141.513	104.075	2.89318
-112.918	5141.513	105.775	2.74697
-112.918	5141.513	107.474	2.20763
-112.918	5141.513	109.174	1.90045
-112.918	5141.513	110.873	1.71280
-112.918	5141.513	112.573	1.58493
-112.918	5141.513	114.272	1.57309
-112.918	5141.513	115.972	1.61836
-112.918	5141.513	117.671	1.68051
-112.918	5141.513	119.371	1.73457
-112.918	5145.464	105.866	4.73735
-112.918	5145.464	107.610	2.89375
-112.918	5145.464	109.353	2.78401
-112.918	5145.464	111.096	2.27150
-112.918	5145.464	112.839	1.93932
-112.918	5145.464	114.582	1.74144
-112.918	5145.464	116.326	1.60898
-112.918	5145.464	118.069	1.59623
-112.918	5145.464	119.812	1.64347
-112.918	5145.464	121.555	1.70674
-112.918	5145.464	123.298	1.76245
-112.918	5149.416	109.389	4.81687
-112.918	5149.416	111.173	2.90068
-112.918	5149.416	112.957	2.82389
-112.918	5149.416	114.740	2.33140
-112.918	5149.416	116.524	1.97532
-112.918	5149.416	118.308	1.76812
-112.918	5149.416	120.092	1.63159
-112.918	5149.416	121.876	1.61814
-112.918	5149.416	123.660	1.66736
-112.918	5149.416	125.444	1.73316
-112.918	5149.416	127.228	1.79206
-108.966	5070.380	44.761	7.84428
-108.966	5070.380	45.201	3.56825
-108.966	5070.380	45.642	2.48008
-108.966	5070.380	46.082	2.00969
-108.966	5070.380	46.522	1.72388
-108.966	5070.380	46.962	1.52756
-108.966	5070.380	47.402	1.40959
-108.966	5070.380	47.842	1.33737
-108.966	5070.380	48.282	1.28850
-108.966	5070.380	48.723	1.25610

APPENDIX II

FIGURE 1 A-A' DATA

-108.966	5070.380	49.163	1.22685
-108.966	5074.332	47.613	8.94443
-108.966	5074.332	48.155	3.97910
-108.966	5074.332	48.698	2.44938
-108.966	5074.332	49.241	1.82067
-108.966	5074.332	49.784	1.53099
-108.966	5074.332	50.327	1.37885
-108.966	5074.332	50.869	1.28138
-108.966	5074.332	51.412	1.22989
-108.966	5074.332	51.955	1.20576
-108.966	5074.332	52.498	1.19478
-108.966	5074.332	53.041	1.18879
-108.966	5078.284	50.464	10.22650
-108.966	5078.284	51.110	3.55669
-108.966	5078.284	51.755	2.20434
-108.966	5078.284	52.401	1.63185
-108.966	5078.284	53.047	1.38365
-108.966	5078.284	53.693	1.26719
-108.966	5078.284	54.338	1.21380
-108.966	5078.284	54.984	1.19105
-108.966	5078.284	55.630	1.18703
-108.966	5078.284	56.275	1.19345
-108.966	5078.284	56.921	1.20094
-108.966	5082.235	53.316	9.51208
-108.966	5082.235	54.064	3.11125
-108.966	5082.235	54.813	1.97803
-108.966	5082.235	55.562	1.51818
-108.966	5082.235	56.311	1.31754
-108.966	5082.235	57.059	1.23114
-108.966	5082.235	57.808	1.19655
-108.966	5082.235	58.557	1.19036
-108.966	5082.235	59.305	1.20021
-108.966	5082.235	60.054	1.21860
-108.966	5082.235	60.803	1.23566
-108.966	5086.187	56.167	8.29809
-108.966	5086.187	57.019	2.75410
-108.966	5086.187	57.871	1.86159
-108.966	5086.187	58.723	1.49867
-108.966	5086.187	59.575	1.30272
-108.966	5086.187	60.427	1.22656
-108.966	5086.187	61.279	1.20340
-108.966	5086.187	62.131	1.20833
-108.966	5086.187	62.982	1.22860
-108.966	5086.187	63.834	1.25505
-108.966	5086.187	64.686	1.27980
-108.966	5090.139	59.019	7.15214
-108.966	5090.139	59.974	2.66138
-108.966	5090.139	60.929	1.83808
-108.966	5090.139	61.885	1.51726
-108.966	5090.139	62.840	1.31674
-108.966	5090.139	63.795	1.23979
-108.966	5090.139	64.750	1.22269
-108.966	5090.139	65.705	1.23591
-108.966	5090.139	66.660	1.26344

APPENDIX II

FIGURE 1 A-A' DATA

-108.966	5090.139	67.616	1.29979
-108.966	5090.139	68.571	1.33266
-108.966	5094.091	61.871	5.96753
-108.966	5094.091	62.929	2.72215
-108.966	5094.091	63.988	1.87004
-108.966	5094.091	65.047	1.54196
-108.966	5094.091	66.105	1.35153
-108.966	5094.091	67.164	1.26396
-108.966	5094.091	68.222	1.24893
-108.966	5094.091	69.281	1.26868
-108.966	5094.091	70.339	1.30488
-108.966	5094.091	71.398	1.34957
-108.966	5094.091	72.456	1.38560
-108.966	5098.043	64.723	5.21953
-108.966	5098.043	65.885	2.90514
-108.966	5098.043	67.047	1.94384
-108.966	5098.043	68.209	1.58773
-108.966	5098.043	69.371	1.40553
-108.966	5098.043	70.533	1.29474
-108.966	5098.043	71.695	1.27930
-108.966	5098.043	72.857	1.30430
-108.966	5098.043	74.019	1.34803
-108.966	5098.043	75.181	1.39670
-108.966	5098.043	76.343	1.43575
-108.966	5101.995	67.617	4.25996
-108.966	5101.995	68.878	3.14785
-108.966	5101.995	70.140	2.04000
-108.966	5101.995	71.401	1.64482
-108.966	5101.995	72.663	1.45706
-108.966	5101.995	73.924	1.33260
-108.966	5101.995	75.186	1.31257
-108.966	5101.995	76.448	1.34233
-108.966	5101.995	77.709	1.38886
-108.966	5101.995	78.971	1.44127
-108.966	5101.995	80.232	1.48323
-108.966	5105.946	70.612	3.90632
-108.966	5105.946	71.964	3.09532
-108.966	5105.946	73.315	2.13326
-108.966	5105.946	74.667	1.70248
-108.966	5105.946	76.019	1.50210
-108.966	5105.946	77.370	1.37398
-108.966	5105.946	78.722	1.34996
-108.966	5105.946	80.073	1.37894
-108.966	5105.946	81.425	1.42799
-108.966	5105.946	82.776	1.48375
-108.966	5105.946	84.128	1.52824
-108.966	5109.898	73.699	3.99127
-108.966	5109.898	75.132	3.04072
-108.966	5109.898	76.565	2.22443
-108.966	5109.898	77.998	1.76068
-108.966	5109.898	79.431	1.54844
-108.966	5109.898	80.864	1.42211
-108.966	5109.898	82.297	1.38606
-108.966	5109.898	83.729	1.41402

-108.966	5109.898	85.162	1.46537
-108.966	5109.898	86.595	1.52410
-108.966	5109.898	88.028	1.57090
-108.966	5113.850	76.865	4.06046
-108.966	5113.850	78.372	2.99255
-108.966	5113.850	79.879	2.31431
-108.966	5113.850	81.386	1.81943
-108.966	5113.850	82.892	1.59579
-108.966	5113.850	84.399	1.47089
-108.966	5113.850	85.906	1.42069
-108.966	5113.850	87.413	1.44749
-108.966	5113.850	88.920	1.50100
-108.966	5113.850	90.427	1.56241
-108.966	5113.850	91.934	1.61127
-108.966	5117.802	80.101	4.12780
-108.966	5117.802	81.675	2.95428
-108.966	5117.802	83.250	2.40346
-108.966	5117.802	84.824	1.87865
-108.966	5117.802	86.398	1.64833
-108.966	5117.802	87.972	1.51892
-108.966	5117.802	89.546	1.45373
-108.966	5117.802	91.121	1.47933
-108.966	5117.802	92.695	1.53493
-108.966	5117.802	94.269	1.59882
-108.966	5117.802	95.843	1.64864
-108.966	5121.754	83.399	4.19863
-108.966	5121.754	85.035	2.92668
-108.966	5121.754	86.671	2.49223
-108.966	5121.754	88.306	1.93828
-108.966	5121.754	89.942	1.70144
-108.966	5121.754	91.578	1.56597
-108.966	5121.754	93.214	1.48513
-108.966	5121.754	94.849	1.50958
-108.966	5121.754	96.485	1.56717
-108.966	5121.754	98.121	1.63340
-108.966	5121.754	99.756	1.68302
-108.966	5125.705	86.753	4.27467
-108.966	5125.705	88.445	2.90927
-108.966	5125.705	90.137	2.58083
-108.966	5125.705	91.829	1.99821
-108.966	5125.705	93.521	1.75185
-108.966	5125.705	95.213	1.60386
-108.966	5125.705	96.905	1.51489
-108.966	5125.705	98.597	1.53825
-108.966	5125.705	100.289	1.59781
-108.966	5125.705	101.981	1.66625
-108.966	5125.705	103.673	1.71473
-108.966	5129.657	90.155	4.35617
-108.966	5129.657	91.898	2.90108
-108.966	5129.657	93.642	2.65694
-108.966	5129.657	95.386	2.06134
-108.966	5129.657	97.130	1.79938
-108.966	5129.657	98.873	1.63930
-108.966	5129.657	100.617	1.54300

APPENDIX II

FIGURE 1 A-A' DATA

-108.966	5129.657	102.361	1.56540
-108.966	5129.657	104.104	1.62691
-108.966	5129.657	105.848	1.69743
-108.966	5129.657	107.592	1.74396
-108.966	5133.609	93.600	4.44278
-108.966	5133.609	95.392	2.90096
-108.966	5133.609	97.183	2.69808
-108.966	5133.609	98.974	2.13143
-108.966	5133.609	100.766	1.84392
-108.966	5133.609	102.557	1.67250
-108.966	5133.609	104.348	1.56952
-108.966	5133.609	106.140	1.59108
-108.966	5133.609	107.931	1.65452
-108.966	5133.609	109.722	1.72663
-108.966	5133.609	111.514	1.77090
-108.966	5137.561	97.085	4.53398
-108.966	5137.561	98.920	2.90783
-108.966	5137.561	100.755	2.74217
-108.966	5137.561	102.591	2.19767
-108.966	5137.561	104.426	1.88541
-108.966	5137.561	106.261	1.70351
-108.966	5137.561	108.096	1.59447
-108.966	5137.561	109.932	1.61536
-108.966	5137.561	111.767	1.68071
-108.966	5137.561	113.602	1.75288
-108.966	5137.561	115.438	1.79911
-108.966	5141.513	100.604	4.62922
-108.966	5141.513	102.480	2.92071
-108.966	5141.513	104.356	2.78877
-108.966	5141.513	106.232	2.25971
-108.966	5141.513	108.108	1.92383
-108.966	5141.513	109.984	1.73238
-108.966	5141.513	111.860	1.61794
-108.966	5141.513	113.736	1.63829
-108.966	5141.513	115.612	1.70499
-108.966	5141.513	117.488	1.77977
-108.966	5141.513	119.364	1.82900
-108.966	5145.464	104.154	4.72796
-108.966	5145.464	106.068	2.93874
-108.966	5145.464	107.982	2.83753
-108.966	5145.464	109.896	2.31726
-108.966	5145.464	111.809	1.95924
-108.966	5145.464	113.723	1.75918
-108.966	5145.464	115.637	1.63995
-108.966	5145.464	117.550	1.65994
-108.966	5145.464	119.464	1.72801
-108.966	5145.464	121.378	1.80837
-108.966	5145.464	123.291	1.85632
-108.966	5149.416	107.733	4.82975
-108.966	5149.416	109.682	2.96118
-108.966	5149.416	111.631	2.88810
-108.966	5149.416	113.579	2.37014
-108.966	5149.416	115.528	1.99169
-108.966	5149.416	117.477	1.78402

APPENDIX II

FIGURE 1 A-A' DATA

-108.966	5149.416	119.426	1.66059
-108.966	5149.416	121.375	1.67917
-108.966	5149.416	123.323	1.75267
-108.966	5149.416	125.272	1.83695
-108.966	5149.416	127.221	1.88284
-105.014	5070.380	42.133	6.89629
-105.014	5070.380	42.873	3.05701
-105.014	5070.380	43.613	1.88558
-105.014	5070.380	44.352	1.49566
-105.014	5070.380	45.092	1.33137
-105.014	5070.380	45.832	1.24578
-105.014	5070.380	46.571	1.21517
-105.014	5070.380	47.311	1.20979
-105.014	5070.380	48.051	1.21232
-105.014	5070.380	48.791	1.21634
-105.014	5070.380	49.530	1.22124
-105.014	5074.332	44.983	7.97396
-105.014	5074.332	45.822	2.80788
-105.014	5074.332	46.660	1.77704
-105.014	5074.332	47.499	1.39355
-105.014	5074.332	48.338	1.25268
-105.014	5074.332	49.177	1.20448
-105.014	5074.332	50.016	1.19588
-105.014	5074.332	50.855	1.20841
-105.014	5074.332	51.693	1.22819
-105.014	5074.332	52.532	1.24268
-105.014	5074.332	53.371	1.25675
-105.014	5078.284	47.833	7.49245
-105.014	5078.284	48.771	2.55258
-105.014	5078.284	49.710	1.69098
-105.014	5078.284	50.649	1.34694
-105.014	5078.284	51.587	1.23042
-105.014	5078.284	52.526	1.19736
-105.014	5078.284	53.465	1.20281
-105.014	5078.284	54.403	1.22746
-105.014	5078.284	55.342	1.25813
-105.014	5078.284	56.281	1.28449
-105.014	5078.284	57.219	1.30587
-105.014	5082.235	50.683	6.77968
-105.014	5082.235	51.722	2.35881
-105.014	5082.235	52.761	1.65464
-105.014	5082.235	53.800	1.35355
-105.014	5082.235	54.839	1.23508
-105.014	5082.235	55.878	1.20861
-105.014	5082.235	56.917	1.22310
-105.014	5082.235	57.956	1.25557
-105.014	5082.235	58.995	1.29790
-105.014	5082.235	60.034	1.33332
-105.014	5082.235	61.073	1.36202
-105.014	5086.187	53.533	6.17013
-105.014	5086.187	54.673	2.34250
-105.014	5086.187	55.813	1.66829
-105.014	5086.187	56.953	1.39895
-105.014	5086.187	58.093	1.25784

APPENDIX II

FIGURE 1 A-A' DATA

-105.014	5086.187	59.232	1.23026
-105.014	5086.187	60.372	1.25055
-105.014	5086.187	61.512	1.29074
-105.014	5086.187	62.652	1.34271
-105.014	5086.187	63.792	1.38691
-105.014	5086.187	64.932	1.41828
-105.014	5090.139	56.384	5.32965
-105.014	5090.139	57.625	2.43689
-105.014	5090.139	58.866	1.72113
-105.014	5090.139	60.107	1.45175
-105.014	5090.139	61.348	1.29362
-105.014	5090.139	62.589	1.25848
-105.014	5090.139	63.830	1.28052
-105.014	5090.139	65.071	1.33021
-105.014	5090.139	66.312	1.38837
-105.014	5090.139	67.554	1.43778
-105.014	5090.139	68.795	1.47141
-105.014	5094.091	59.234	4.78070
-105.014	5094.091	60.577	2.62982
-105.014	5094.091	61.920	1.80656
-105.014	5094.091	63.262	1.50785
-105.014	5094.091	64.605	1.34554
-105.014	5094.091	65.948	1.29037
-105.014	5094.091	67.290	1.31546
-105.014	5094.091	68.633	1.36941
-105.014	5094.091	69.975	1.43092
-105.014	5094.091	71.318	1.48565
-105.014	5094.091	72.661	1.52156
-105.014	5098.043	62.131	4.03082
-105.014	5098.043	63.571	2.88582
-105.014	5098.043	65.011	1.91096
-105.014	5098.043	66.451	1.57305
-105.014	5098.043	67.891	1.41264
-105.014	5098.043	69.332	1.32804
-105.014	5098.043	70.772	1.35152
-105.014	5098.043	72.212	1.40639
-105.014	5098.043	73.652	1.47103
-105.014	5098.043	75.092	1.53067
-105.014	5098.043	76.532	1.56876
-105.014	5101.995	65.138	3.58899
-105.014	5101.995	66.666	2.93498
-105.014	5101.995	68.193	2.01392
-105.014	5101.995	69.720	1.63889
-105.014	5101.995	71.248	1.46890
-105.014	5101.995	72.775	1.37240
-105.014	5101.995	74.302	1.38680
-105.014	5101.995	75.830	1.44210
-105.014	5101.995	77.357	1.50950
-105.014	5101.995	78.884	1.57325
-105.014	5101.995	80.412	1.61215
-105.014	5105.946	68.243	3.70659
-105.014	5105.946	69.848	2.91568
-105.014	5105.946	71.454	2.11559
-105.014	5105.946	73.059	1.70516

-105.014	5105.946	74.665	1.52175
-105.014	5105.946	76.271	1.41717
-105.014	5105.946	77.876	1.42098
-105.014	5105.946	79.482	1.47636
-105.014	5105.946	81.087	1.54624
-105.014	5105.946	82.693	1.61350
-105.014	5105.946	84.298	1.65060
-105.014	5109.898	71.431	3.80823
-105.014	5109.898	73.107	2.89839
-105.014	5109.898	74.783	2.21634
-105.014	5109.898	76.459	1.77173
-105.014	5109.898	78.135	1.58043
-105.014	5109.898	79.811	1.46185
-105.014	5109.898	81.487	1.45383
-105.014	5109.898	83.163	1.50907
-105.014	5109.898	84.839	1.58124
-105.014	5109.898	86.515	1.65165
-105.014	5109.898	88.191	1.68717
-105.014	5113.850	74.694	3.90608
-105.014	5113.850	76.433	2.88685
-105.014	5113.850	78.173	2.31647
-105.014	5113.850	79.912	1.83850
-105.014	5113.850	81.652	1.63671
-105.014	5113.850	83.392	1.50613
-105.014	5113.850	85.131	1.48521
-105.014	5113.850	86.871	1.54018
-105.014	5113.850	88.611	1.61452
-105.014	5113.850	90.350	1.68706
-105.014	5113.850	92.090	1.72083
-105.014	5117.802	78.020	4.00518
-105.014	5117.802	79.817	2.88242
-105.014	5117.802	81.615	2.41616
-105.014	5117.802	83.412	1.90538
-105.014	5117.802	85.209	1.69026
-105.014	5117.802	87.007	1.54975
-105.014	5117.802	88.804	1.51504
-105.014	5117.802	90.601	1.56970
-105.014	5117.802	92.398	1.64610
-105.014	5117.802	94.196	1.71993
-105.014	5117.802	95.993	1.75176
-105.014	5121.754	81.403	4.10740
-105.014	5121.754	83.253	2.88522
-105.014	5121.754	85.102	2.51556
-105.014	5121.754	86.952	1.97994
-105.014	5121.754	88.802	1.74080
-105.014	5121.754	90.652	1.59254
-105.014	5121.754	92.501	1.54329
-105.014	5121.754	94.351	1.59764
-105.014	5121.754	96.201	1.67605
-105.014	5121.754	98.051	1.75047
-105.014	5121.754	99.900	1.78007
-105.014	5125.705	84.835	4.21323
-105.014	5125.705	86.733	2.89478
-105.014	5125.705	88.631	2.61474

APPENDIX II

FIGURE 1 A-A' DATA

-105.014	5125.705	90.528	2.05288
-105.014	5125.705	92.426	1.78821
-105.014	5125.705	94.323	1.63419
-105.014	5125.705	96.221	1.56997
-105.014	5125.705	98.119	1.62406
-105.014	5125.705	100.016	1.70441
-105.014	5125.705	101.914	1.77870
-105.014	5125.705	103.812	1.80733
-105.014	5129.657	88.312	4.32261
-105.014	5129.657	90.253	2.91045
-105.014	5129.657	92.195	2.69570
-105.014	5129.657	94.136	2.12177
-105.014	5129.657	96.077	1.83240
-105.014	5129.657	98.019	1.66753
-105.014	5129.657	99.960	1.59511
-105.014	5129.657	101.902	1.64898
-105.014	5129.657	103.843	1.73127
-105.014	5129.657	105.784	1.80442
-105.014	5129.657	107.726	1.83599
-105.014	5133.609	91.827	4.43522
-105.014	5133.609	93.808	2.93146
-105.014	5133.609	95.790	2.75012
-105.014	5133.609	97.772	2.18622
-105.014	5133.609	99.753	1.87335
-105.014	5133.609	101.735	1.69857
-105.014	5133.609	103.717	1.61874
-105.014	5133.609	105.698	1.67250
-105.014	5133.609	107.680	1.75583
-105.014	5133.609	109.662	1.83156
-105.014	5133.609	111.643	1.86576
-105.014	5137.561	95.376	4.55072
-105.014	5137.561	97.395	2.95713
-105.014	5137.561	99.414	2.80638
-105.014	5137.561	101.432	2.24594
-105.014	5137.561	103.451	1.91108
-105.014	5137.561	105.470	1.72738
-105.014	5137.561	107.488	1.64091
-105.014	5137.561	109.507	1.69467
-105.014	5137.561	111.526	1.78059
-105.014	5137.561	113.544	1.86073
-105.014	5137.561	115.563	1.89261
-105.014	5141.513	98.957	4.66873
-105.014	5141.513	101.010	2.98681
-105.014	5141.513	103.062	2.87110
-105.014	5141.513	105.115	2.30074
-105.014	5141.513	107.168	1.94568
-105.014	5141.513	109.221	1.75405
-105.014	5141.513	111.274	1.66169
-105.014	5141.513	113.327	1.71412
-105.014	5141.513	115.380	1.80675
-105.014	5141.513	117.432	1.88792
-105.014	5141.513	119.485	1.91920
-105.014	5145.464	102.565	4.78893
-105.014	5145.464	104.649	3.01996

APPENDIX II

FIGURE 1 A-A' DATA

-105.014	5145.464	106.734	2.95013
-105.014	5145.464	108.818	2.35051
-105.014	5145.464	110.903	1.97720
-105.014	5145.464	112.987	1.77869
-105.014	5145.464	115.072	1.68116
-105.014	5145.464	117.156	1.73457
-105.014	5145.464	119.241	1.83518
-105.014	5145.464	121.325	1.91388
-105.014	5145.464	123.410	-106.00000
-105.014	5149.416	106.197	4.91101
-105.014	5149.416	108.311	3.05645
-105.014	5149.416	110.425	3.02424
-105.014	5149.416	112.539	2.39525
-105.014	5149.416	114.653	2.00583
-105.014	5149.416	116.767	1.80142
-105.014	5149.416	118.880	1.69740
-105.014	5149.416	120.994	1.75652
-105.014	5149.416	123.108	1.86057
-105.014	5149.416	125.222	1.93962
-105.014	5149.416	127.336	1.97124
-101.062	5070.380	39.520	6.36556
-101.062	5070.380	40.587	2.30426
-101.062	5070.380	41.653	1.50789
-101.062	5070.380	42.720	1.26980
-101.062	5070.380	43.786	1.21047
-101.062	5070.380	44.853	1.21277
-101.062	5070.380	45.919	1.24052
-101.062	5070.380	46.986	1.27664
-101.062	5070.380	48.052	1.30345
-101.062	5070.380	49.119	1.32517
-101.062	5070.380	50.185	1.63721
-101.062	5074.332	42.367	6.04915
-101.062	5074.332	43.527	2.15297
-101.062	5074.332	44.687	1.47590
-101.062	5074.332	45.848	1.25081
-101.062	5074.332	47.008	1.20375
-101.062	5074.332	48.168	1.21832
-101.062	5074.332	49.328	1.25744
-101.062	5074.332	50.489	1.30772
-101.062	5074.332	51.649	1.34711
-101.062	5074.332	52.809	1.37702
-101.062	5074.332	53.970	1.65613
-101.062	5078.284	45.214	5.64177
-101.062	5078.284	46.470	2.06393
-101.062	5078.284	47.725	1.50609
-101.062	5078.284	48.980	1.26708
-101.062	5078.284	50.236	1.21557
-101.062	5078.284	51.491	1.23596
-101.062	5078.284	52.747	1.28346
-101.062	5078.284	54.002	1.34400
-101.062	5078.284	55.258	1.39639
-101.062	5078.284	56.513	1.43366
-101.062	5078.284	57.768	1.68065
-101.062	5082.235	48.062	5.28785

-101.062	5082.235	49.414	2.09466
-101.062	5082.235	50.765	1.54272
-101.062	5082.235	52.117	1.31290
-101.062	5082.235	53.469	1.23971
-101.062	5082.235	54.821	1.26045
-101.062	5082.235	56.172	1.31440
-101.062	5082.235	57.524	1.38386
-101.062	5082.235	58.876	1.44688
-101.062	5082.235	60.227	1.48791
-101.062	5082.235	61.579	1.70477
-101.062	5086.187	50.910	4.78095
-101.062	5086.187	52.359	2.21049
-101.062	5086.187	53.808	1.60772
-101.062	5086.187	55.257	1.38854
-101.062	5086.187	56.706	1.27427
-101.062	5086.187	58.155	1.28772
-101.062	5086.187	59.604	1.34916
-101.062	5086.187	61.053	1.42348
-101.062	5086.187	62.502	1.49353
-101.062	5086.187	63.951	1.53890
-101.062	5086.187	65.400	1.72542
-101.062	5090.139	53.759	4.38269
-101.062	5090.139	55.306	2.40954
-101.062	5090.139	56.853	1.70104
-101.062	5090.139	58.400	1.45179
-101.062	5090.139	59.947	1.31917
-101.062	5090.139	61.494	1.32018
-101.062	5090.139	63.041	1.38330
-101.062	5090.139	64.588	1.46018
-101.062	5090.139	66.135	1.53627
-101.062	5090.139	67.682	1.58509
-101.062	5090.139	69.228	1.74165
-101.062	5094.091	56.659	3.79490
-101.062	5094.091	58.300	2.66719
-101.062	5094.091	59.940	1.81148
-101.062	5094.091	61.581	1.52295
-101.062	5094.091	63.222	1.37933
-101.062	5094.091	64.863	1.35687
-101.062	5094.091	66.504	1.41572
-101.062	5094.091	68.144	1.49475
-101.062	5094.091	69.785	1.57572
-101.062	5094.091	71.426	1.62893
-101.062	5094.091	73.067	1.65299
-101.062	5098.043	59.679	3.31973
-101.062	5098.043	61.403	2.79783
-101.062	5098.043	63.127	1.92215
-101.062	5098.043	64.851	1.59522
-101.062	5098.043	66.574	1.45401
-101.062	5098.043	68.298	1.39495
-101.062	5098.043	70.022	1.44773
-101.062	5098.043	71.746	1.52834
-101.062	5098.043	73.470	1.61260
-101.062	5098.043	75.193	1.66958
-101.062	5098.043	76.917	1.69200

-101.062	5101.995	62.804	3.46492
-101.062	5101.995	64.601	2.80925
-101.062	5101.995	66.399	2.03263
-101.062	5101.995	68.196	1.66813
-101.062	5101.995	69.994	1.51533
-101.062	5101.995	71.791	1.43378
-101.062	5101.995	73.589	1.47892
-101.062	5101.995	75.386	1.56069
-101.062	5101.995	77.183	1.64751
-101.062	5101.995	78.981	1.70737
-101.062	5101.995	80.778	1.72778
-101.062	5105.946	66.018	3.59512
-101.062	5105.946	67.881	2.81979
-101.062	5105.946	69.744	2.14288
-101.062	5105.946	71.607	1.74140
-101.062	5105.946	73.470	1.57447
-101.062	5105.946	75.333	1.47285
-101.062	5105.946	77.196	1.50899
-101.062	5105.946	79.059	1.59165
-101.062	5105.946	80.922	1.68082
-101.062	5105.946	82.785	1.74219
-101.062	5105.946	84.648	1.76077
-101.062	5109.898	69.310	3.72072
-101.062	5109.898	71.231	2.83311
-101.062	5109.898	73.153	2.25289
-101.062	5109.898	75.075	1.81790
-101.062	5109.898	76.996	1.63096
-101.062	5109.898	78.918	1.51183
-101.062	5109.898	80.840	1.53776
-101.062	5109.898	82.761	1.62112
-101.062	5109.898	84.683	1.71245
-101.062	5109.898	86.605	1.77441
-101.062	5109.898	88.526	1.79127
-101.062	5113.850	72.668	3.84625
-101.062	5113.850	74.642	2.85081
-101.062	5113.850	76.616	2.36268
-101.062	5113.850	78.591	1.89751
-101.062	5113.850	80.565	1.68443
-101.062	5113.850	82.539	1.55048
-101.062	5113.850	84.514	1.56512
-101.062	5113.850	86.488	1.64908
-101.062	5113.850	88.462	1.74213
-101.062	5113.850	90.437	1.80418
-101.062	5113.850	92.411	1.81898
-101.062	5117.802	76.083	3.97350
-101.062	5117.802	78.105	2.87337
-101.062	5117.802	80.127	2.47226
-101.062	5117.802	82.149	1.97345
-101.062	5117.802	84.171	1.73466
-101.062	5117.802	86.193	1.58862
-101.062	5117.802	88.214	1.59102
-101.062	5117.802	90.236	1.67553
-101.062	5117.802	92.258	1.76986
-101.062	5117.802	94.280	1.83132

APPENDIX II

FIGURE 1 A-A' DATA

-101.062	5117.802	96.302	1.84667
-101.062	5121.754	79.549	4.10307
-101.062	5121.754	81.614	2.90067
-101.062	5121.754	83.679	2.58166
-101.062	5121.754	85.744	2.04517
-101.062	5121.754	87.809	1.78151
-101.062	5121.754	89.873	1.62617
-101.062	5121.754	91.938	1.61546
-101.062	5121.754	94.003	1.70049
-101.062	5121.754	96.068	1.79576
-101.062	5121.754	98.133	1.85731
-101.062	5121.754	100.198	1.87605
-101.062	5125.705	83.059	4.23501
-101.062	5125.705	85.163	2.93237
-101.062	5125.705	87.267	2.69088
-101.062	5125.705	89.371	2.11222
-101.062	5125.705	91.475	1.82496
-101.062	5125.705	93.578	1.66309
-101.062	5125.705	95.682	1.63844
-101.062	5125.705	97.786	1.72401
-101.062	5125.705	99.890	1.81921
-101.062	5125.705	101.994	1.88492
-101.062	5125.705	104.098	1.90465
-101.062	5129.657	86.607	4.36916
-101.062	5129.657	88.747	2.96796
-101.062	5129.657	90.886	2.77816
-101.062	5129.657	93.026	2.17430
-101.062	5129.657	95.165	1.86501
-101.062	5129.657	97.305	1.69847
-101.062	5129.657	99.444	1.66002
-101.062	5129.657	101.584	1.74597
-101.062	5129.657	103.723	1.84383
-101.062	5129.657	105.863	1.91502
-101.062	5129.657	108.002	1.93175
-101.062	5133.609	90.189	4.50530
-101.062	5133.609	92.361	3.00698
-101.062	5133.609	94.534	2.86101
-101.062	5133.609	96.706	2.23119
-101.062	5133.609	98.878	1.90174
-101.062	5133.609	101.050	1.72689
-101.062	5133.609	103.222	1.68023
-101.062	5133.609	105.394	1.76594
-101.062	5133.609	107.566	1.87058
-101.062	5133.609	109.738	1.94134
-101.062	5133.609	111.910	1.95881
-101.062	5137.561	93.801	4.64316
-101.062	5137.561	96.003	3.04937
-101.062	5137.561	98.206	2.93884
-101.062	5137.561	100.408	2.28282
-101.062	5137.561	102.610	1.93524
-101.062	5137.561	104.812	1.75314
-101.062	5137.561	107.014	1.69889
-101.062	5137.561	109.216	1.78783
-101.062	5137.561	111.418	1.89728

APPENDIX II

FIGURE 1 A-A' DATA

-101.062	5137.561	113.620	1.96724
-101.062	5137.561	115.822	1.98540
-101.062	5141.513	97.440	4.78250
-101.062	5141.513	99.670	3.09388
-101.062	5141.513	101.899	3.01066
-101.062	5141.513	104.129	2.32919
-101.062	5141.513	106.358	1.96566
-101.062	5141.513	108.588	1.77733
-101.062	5141.513	110.818	1.71491
-101.062	5141.513	113.047	1.81224
-101.062	5141.513	115.277	1.92174
-101.062	5141.513	117.506	1.99291
-101.062	5141.513	119.736	2.01174
-101.062	5145.464	101.103	4.92311
-101.062	5145.464	103.358	3.14059
-101.062	5145.464	105.613	3.07558
-101.062	5145.464	107.868	2.37040
-101.062	5145.464	110.123	1.99315
-101.062	5145.464	112.378	1.79958
-101.062	5145.464	114.633	1.73273
-101.062	5145.464	116.888	1.83663
-101.062	5145.464	119.143	1.94616
-101.062	5145.464	121.398	2.01723
-101.062	5145.464	123.653	2.04245
-101.062	5149.416	104.786	5.06478
-101.062	5149.416	107.065	3.18918
-101.062	5149.416	109.343	3.13291
-101.062	5149.416	111.622	2.40657
-101.062	5149.416	113.901	2.01789
-101.062	5149.416	116.179	1.81766
-101.062	5149.416	118.458	1.75238
-101.062	5149.416	120.736	1.85887
-101.062	5149.416	123.015	-106.00000
-101.062	5149.416	125.293	2.04305
-101.062	5149.416	127.572	2.07546
-97.111	5070.380	36.922	4.98666
-97.111	5070.380	38.341	1.86937
-97.111	5070.380	39.761	1.33945
-97.111	5070.380	41.180	1.21541
-97.111	5070.380	42.599	1.23018
-97.111	5070.380	44.018	1.28701
-97.111	5070.380	45.437	1.36043
-97.111	5070.380	46.857	1.42182
-97.111	5070.380	48.276	1.46393
-97.111	5070.380	49.695	1.65375
-97.111	5070.380	51.114	1.74378
-97.111	5074.332	39.765	4.77288
-97.111	5074.332	41.271	1.84154
-97.111	5074.332	42.777	1.39883
-97.111	5074.332	44.283	1.23018
-97.111	5074.332	45.789	1.24166
-97.111	5074.332	47.295	1.30529
-97.111	5074.332	48.801	1.38731
-97.111	5074.332	50.307	1.46713

-97.111	5074.332	51.813	1.51582
-97.111	5074.332	53.319	1.64876
-97.111	5074.332	54.825	1.77491
-97.111	5078.284	42.609	4.59441
-97.111	5078.284	44.204	1.90184
-97.111	5078.284	45.799	1.45005
-97.111	5078.284	47.394	1.26926
-97.111	5078.284	48.989	1.26231
-97.111	5078.284	50.584	1.32895
-97.111	5078.284	52.179	1.41958
-97.111	5078.284	53.774	1.51005
-97.111	5078.284	55.369	1.56633
-97.111	5078.284	56.964	1.59907
-97.111	5078.284	58.559	1.80515
-97.111	5082.235	45.453	4.30751
-97.111	5082.235	47.139	2.03182
-97.111	5082.235	48.825	1.52561
-97.111	5082.235	50.511	1.33875
-97.111	5082.235	52.197	1.28931
-97.111	5082.235	53.883	1.35653
-97.111	5082.235	55.569	1.45146
-97.111	5082.235	57.255	1.54684
-97.111	5082.235	58.941	1.61297
-97.111	5082.235	60.627	1.64590
-97.111	5082.235	62.313	1.83381
-97.111	5086.187	48.299	4.02399
-97.111	5086.187	50.077	2.23539
-97.111	5086.187	51.856	1.62450
-97.111	5086.187	53.634	1.41776
-97.111	5086.187	55.413	1.32639
-97.111	5086.187	57.191	1.38515
-97.111	5086.187	58.970	1.48056
-97.111	5086.187	60.748	1.57921
-97.111	5086.187	62.526	1.65572
-97.111	5086.187	64.305	1.68923
-97.111	5086.187	66.083	1.86043
-97.111	5090.139	51.202	3.56111
-97.111	5090.139	53.068	2.49583
-97.111	5090.139	54.935	1.73965
-97.111	5090.139	56.802	1.49338
-97.111	5090.139	58.669	1.37846
-97.111	5090.139	60.536	1.41371
-97.111	5090.139	62.403	1.50806
-97.111	5090.139	64.269	1.60984
-97.111	5090.139	66.136	1.69460
-97.111	5090.139	68.003	1.72915
-97.111	5090.139	69.870	1.88484
-97.111	5094.091	54.237	3.09362
-97.111	5094.091	56.181	2.68456
-97.111	5094.091	58.125	1.85576
-97.111	5094.091	60.069	1.57086
-97.111	5094.091	62.012	1.44530
-97.111	5094.091	63.956	1.44406
-97.111	5094.091	65.900	1.53564

-97.111	5094.091	67.844	1.63996
-97.111	5094.091	69.787	1.73037
-97.111	5094.091	71.731	1.76610
-97.111	5094.091	73.675	1.90732
-97.111	5098.043	57.386	3.26338
-97.111	5098.043	59.397	2.72334
-97.111	5098.043	61.408	1.97410
-97.111	5098.043	63.419	1.64943
-97.111	5098.043	65.430	1.51749
-97.111	5098.043	67.441	1.47545
-97.111	5098.043	69.452	1.56278
-97.111	5098.043	71.463	1.66920
-97.111	5098.043	73.474	1.76338
-97.111	5098.043	75.485	1.80004
-97.111	5098.043	77.496	1.92767
-97.111	5101.995	60.630	3.41992
-97.111	5101.995	62.700	2.75952
-97.111	5101.995	64.770	2.09308
-97.111	5101.995	66.840	1.73382
-97.111	5101.995	68.910	1.57638
-97.111	5101.995	70.980	1.50736
-97.111	5101.995	73.050	1.58908
-97.111	5101.995	75.120	1.69733
-97.111	5101.995	77.190	1.79357
-97.111	5101.995	79.260	1.83137
-97.111	5101.995	81.330	1.94574
-97.111	5105.946	63.955	3.57190
-97.111	5105.946	66.077	2.79641
-97.111	5105.946	68.199	2.21242
-97.111	5105.946	70.321	1.81633
-97.111	5105.946	72.443	1.63240
-97.111	5105.946	74.565	1.53943
-97.111	5105.946	76.687	1.61431
-97.111	5105.946	78.809	1.72420
-97.111	5105.946	80.932	1.82093
-97.111	5105.946	83.054	1.86039
-97.111	5105.946	85.176	1.96185
-97.111	5109.898	67.348	3.72316
-97.111	5109.898	69.516	2.83565
-97.111	5109.898	71.685	2.33194
-97.111	5109.898	73.853	1.89522
-97.111	5109.898	76.021	1.68517
-97.111	5109.898	78.190	1.57143
-97.111	5109.898	80.358	1.63832
-97.111	5109.898	82.527	1.74970
-97.111	5109.898	84.695	1.84714
-97.111	5109.898	86.863	1.88669
-97.111	5109.898	89.032	1.97896
-97.111	5113.850	70.800	3.87530
-97.111	5113.850	73.010	2.87786
-97.111	5113.850	75.219	2.45153
-97.111	5113.850	77.429	1.96979
-97.111	5113.850	79.638	1.73450
-97.111	5113.850	81.848	1.60322

-97.111	5113.850	84.058	1.66104
-97.111	5113.850	86.267	1.77382
-97.111	5113.850	88.477	1.87064
-97.111	5113.850	90.686	1.91311
-97.111	5113.850	92.896	1.99765
-97.111	5117.802	74.303	4.02888
-97.111	5117.802	76.549	2.92313
-97.111	5117.802	78.796	2.57392
-97.111	5117.802	81.042	2.03949
-97.111	5117.802	83.289	1.78027
-97.111	5117.802	85.535	1.63472
-97.111	5117.802	87.782	1.68244
-97.111	5117.802	90.028	1.79654
-97.111	5117.802	92.275	1.89249
-97.111	5117.802	94.521	1.94157
-97.111	5117.802	96.768	2.01304
-97.111	5121.754	77.849	4.18399
-97.111	5121.754	80.129	2.97132
-97.111	5121.754	82.408	2.70747
-97.111	5121.754	84.688	2.10398
-97.111	5121.754	86.968	1.82249
-97.111	5121.754	89.248	1.66594
-97.111	5121.754	91.527	1.70254
-97.111	5121.754	93.807	1.81730
-97.111	5121.754	96.087	1.91649
-97.111	5121.754	98.367	1.96972
-97.111	5121.754	100.646	2.02511
-97.111	5125.705	81.433	4.34055
-97.111	5125.705	83.743	3.02213
-97.111	5125.705	86.052	2.83484
-97.111	5125.705	88.362	2.16303
-97.111	5125.705	90.672	1.86122
-97.111	5125.705	92.982	1.69695
-97.111	5125.705	95.292	1.72134
-97.111	5125.705	97.601	1.83808
-97.111	5125.705	99.911	1.94289
-97.111	5125.705	102.221	1.99580
-97.111	5125.705	104.531	2.02938
-97.111	5129.657	85.050	4.49838
-97.111	5129.657	87.387	3.07561
-97.111	5129.657	89.724	2.91594
-97.111	5129.657	92.061	2.21658
-97.111	5129.657	94.398	1.89656
-97.111	5129.657	96.735	1.72786
-97.111	5129.657	99.072	1.73787
-97.111	5129.657	101.409	1.86083
-97.111	5129.657	103.746	1.96730
-97.111	5129.657	106.083	2.02189
-97.111	5129.657	108.420	2.02927
-97.111	5133.609	88.696	4.65730
-97.111	5133.609	91.057	3.13067
-97.111	5133.609	93.419	2.98601
-97.111	5133.609	95.781	2.26463
-97.111	5133.609	98.143	1.92866

APPENDIX II

FIGURE 1 A-A' DATA

-97.111	5133.609	100.505	1.75696
-97.111	5133.609	102.867	1.75432
-97.111	5133.609	105.229	1.88619
-97.111	5133.609	107.591	1.99094
-97.111	5133.609	109.953	2.04906
-97.111	5133.609	112.314	2.05871
-97.111	5137.561	92.367	4.81712
-97.111	5137.561	94.751	3.18743
-97.111	5137.561	97.136	3.04818
-97.111	5137.561	99.521	2.30732
-97.111	5137.561	101.905	1.95768
-97.111	5137.561	104.290	1.77990
-97.111	5137.561	106.674	1.77266
-97.111	5137.561	109.059	1.90906
-97.111	5137.561	111.444	2.01461
-97.111	5137.561	113.828	2.07328
-97.111	5137.561	116.213	2.09177
-97.111	5141.513	96.061	4.97767
-97.111	5141.513	98.466	3.24564
-97.111	5141.513	100.871	3.10191
-97.111	5141.513	103.277	2.34484
-97.111	5141.513	105.682	1.98381
-97.111	5141.513	108.088	1.79942
-97.111	5141.513	110.493	1.79412
-97.111	5141.513	112.898	1.93134
-97.111	5141.513	115.304	2.03814
-97.111	5141.513	117.709	2.10244
-97.111	5141.513	120.115	2.12661
-97.111	5145.464	99.774	5.13880
-97.111	5145.464	102.199	3.30505
-97.111	5145.464	104.624	3.14693
-97.111	5145.464	107.048	2.37742
-97.111	5145.464	109.473	2.00724
-97.111	5145.464	111.897	1.82056
-97.111	5145.464	114.322	1.81416
-97.111	5145.464	116.746	1.95370
-97.111	5145.464	119.171	2.06039
-97.111	5145.464	121.595	2.13462
-97.111	5145.464	124.020	2.16234
-97.111	5149.416	103.506	5.30057
-97.111	5149.416	105.948	3.36545
-97.111	5149.416	108.390	3.18319
-97.111	5149.416	110.833	2.40540
-97.111	5149.416	113.275	2.02664
-97.111	5149.416	115.717	1.84300
-97.111	5149.416	118.159	1.83272
-97.111	5149.416	120.602	1.97662
-97.111	5149.416	123.044	2.08707
-97.111	5149.416	125.486	2.16835
-97.111	5149.416	127.928	2.20039
-93.159	5070.380	34.337	4.10377
-93.159	5070.380	36.133	1.67523
-93.159	5070.380	37.930	1.32020
-93.159	5070.380	39.726	1.23840

-93.159	5070.380	41.522	1.31327
-93.159	5070.380	43.318	1.42280
-93.159	5070.380	45.115	1.53877
-93.159	5070.380	46.911	1.61429
-93.159	5070.380	48.707	1.65445
-93.159	5070.380	50.503	1.78760
-93.159	5070.380	52.300	3.06487
-93.159	5074.332	37.175	4.04853
-93.159	5074.332	39.050	1.75408
-93.159	5074.332	40.925	1.38836
-93.159	5074.332	42.799	1.26406
-93.159	5074.332	44.674	1.32683
-93.159	5074.332	46.549	1.44349
-93.159	5074.332	48.424	1.56485
-93.159	5074.332	50.299	1.65764
-93.159	5074.332	52.173	1.69969
-93.159	5074.332	54.048	1.81829
-93.159	5074.332	55.923	1.82592
-93.159	5078.284	40.015	3.89919
-93.159	5078.284	41.971	1.89384
-93.159	5078.284	43.928	1.46975
-93.159	5078.284	45.884	1.31780
-93.159	5078.284	47.841	1.34592
-93.159	5078.284	49.798	1.46523
-93.159	5078.284	51.754	1.58936
-93.159	5078.284	53.711	1.69580
-93.159	5078.284	55.667	1.74188
-93.159	5078.284	57.624	1.84294
-93.159	5078.284	59.580	1.85475
-93.159	5082.235	42.856	3.70299
-93.159	5082.235	44.897	2.10193
-93.159	5082.235	46.938	1.57262
-93.159	5082.235	48.979	1.40575
-93.159	5082.235	51.020	1.37285
-93.159	5082.235	53.061	1.48458
-93.159	5082.235	55.102	1.61147
-93.159	5082.235	57.143	1.72775
-93.159	5082.235	59.184	1.78056
-93.159	5082.235	61.225	1.85322
-93.159	5082.235	63.265	1.88239
-93.159	5086.187	45.762	3.33494
-93.159	5086.187	47.883	2.36780
-93.159	5086.187	50.005	1.69179
-93.159	5086.187	52.127	1.48465
-93.159	5086.187	54.248	1.40870
-93.159	5086.187	56.370	1.50355
-93.159	5086.187	58.491	1.63247
-93.159	5086.187	60.613	1.75239
-93.159	5086.187	62.735	1.81618
-93.159	5086.187	64.856	1.83025
-93.159	5086.187	66.978	1.90954
-93.159	5090.139	48.816	2.90787
-93.159	5090.139	51.006	2.59682
-93.159	5090.139	53.196	1.81499

-93.159	5090.139	55.386	1.56812
-93.159	5090.139	57.576	1.45841
-93.159	5090.139	59.767	1.52475
-93.159	5090.139	61.957	1.65426
-93.159	5090.139	64.147	1.77698
-93.159	5090.139	66.337	1.84911
-93.159	5090.139	68.527	1.86272
-93.159	5090.139	70.718	1.93512
-93.159	5094.091	51.993	3.10106
-93.159	5094.091	54.241	2.66073
-93.159	5094.091	56.490	1.94072
-93.159	5094.091	58.739	1.65502
-93.159	5094.091	60.988	1.52602
-93.159	5094.091	63.237	1.54732
-93.159	5094.091	65.485	1.67617
-93.159	5094.091	67.734	1.80123
-93.159	5094.091	69.983	1.87933
-93.159	5094.091	72.232	1.89271
-93.159	5094.091	74.481	1.95951
-93.159	5098.043	55.271	3.28339
-93.159	5098.043	57.570	2.72122
-93.159	5098.043	59.870	2.06809
-93.159	5098.043	62.169	1.73978
-93.159	5098.043	64.468	1.58794
-93.159	5098.043	66.767	1.57062
-93.159	5098.043	69.067	1.69764
-93.159	5098.043	71.366	1.82563
-93.159	5098.043	73.665	1.90696
-93.159	5098.043	75.964	1.92045
-93.159	5098.043	78.264	1.98299
-93.159	5101.995	58.634	3.46180
-93.159	5101.995	60.977	2.78108
-93.159	5101.995	63.320	2.19656
-93.159	5101.995	65.663	1.82121
-93.159	5101.995	68.006	1.64261
-93.159	5101.995	70.349	1.59426
-93.159	5101.995	72.692	1.71837
-93.159	5101.995	75.035	1.84795
-93.159	5101.995	77.377	1.93231
-93.159	5101.995	79.720	1.94584
-93.159	5101.995	82.063	2.00862
-93.159	5105.946	62.068	3.63938
-93.159	5105.946	64.449	2.84179
-93.159	5105.946	66.830	2.32574
-93.159	5105.946	69.211	1.89833
-93.159	5105.946	71.592	1.69389
-93.159	5105.946	73.973	1.61799
-93.159	5105.946	76.354	1.73812
-93.159	5105.946	78.735	1.86912
-93.159	5105.946	81.116	1.95500
-93.159	5105.946	83.497	1.97255
-93.159	5105.946	85.878	2.03604
-93.159	5109.898	65.561	3.81741
-93.159	5109.898	67.975	2.90397

-93.159	5109.898	70.389	2.46695
-93.159	5109.898	72.804	1.97051
-93.159	5109.898	75.218	1.74158
-93.159	5109.898	77.633	1.64166
-93.159	5109.898	80.047	1.75680
-93.159	5109.898	82.461	1.88902
-93.159	5109.898	84.876	1.97712
-93.159	5109.898	87.290	2.00166
-93.159	5109.898	89.704	2.06162
-93.159	5113.850	69.104	3.99631
-93.159	5113.850	71.548	2.96783
-93.159	5113.850	73.991	2.60331
-93.159	5113.850	76.435	2.03726
-93.159	5113.850	78.879	1.78562
-93.159	5113.850	81.323	1.66526
-93.159	5113.850	83.767	1.77436
-93.159	5113.850	86.211	1.90715
-93.159	5113.850	88.654	2.00071
-93.159	5113.850	91.098	2.02901
-93.159	5113.850	93.542	2.08714
-93.159	5117.802	72.690	4.17617
-93.159	5117.802	75.160	3.03370
-93.159	5117.802	77.630	2.73276
-93.159	5117.802	80.100	2.09834
-93.159	5117.802	82.569	1.82603
-93.159	5117.802	85.039	1.68881
-93.159	5117.802	87.509	1.79080
-93.159	5117.802	89.979	1.92694
-93.159	5117.802	92.449	2.02605
-93.159	5117.802	94.919	2.05544
-93.159	5117.802	97.389	2.11309
-93.159	5121.754	76.312	4.35687
-93.159	5121.754	78.805	3.10057
-93.159	5121.754	81.299	2.85377
-93.159	5121.754	83.792	2.15368
-93.159	5121.754	86.285	1.86291
-93.159	5121.754	88.779	1.71240
-93.159	5121.754	91.272	1.80510
-93.159	5121.754	93.765	1.94945
-93.159	5121.754	96.258	2.04807
-93.159	5121.754	98.752	2.08189
-93.159	5121.754	101.245	2.13774
-93.159	5125.705	79.966	4.53829
-93.159	5125.705	82.480	3.16871
-93.159	5125.705	84.995	2.95272
-93.159	5125.705	87.509	2.20330
-93.159	5125.705	90.023	1.89642
-93.159	5125.705	92.537	1.73620
-93.159	5125.705	95.051	1.82125
-93.159	5125.705	97.566	1.97269
-93.159	5125.705	100.080	2.07033
-93.159	5125.705	102.594	2.10744
-93.159	5125.705	105.108	2.16819
-93.159	5129.657	83.648	4.72026

-93.159	5129.657	86.181	3.23792
-93.159	5129.657	88.714	3.01275
-93.159	5129.657	91.247	2.24738
-93.159	5129.657	93.780	1.92671
-93.159	5129.657	96.313	1.75899
-93.159	5129.657	98.846	1.83977
-93.159	5129.657	101.379	1.99363
-93.159	5129.657	103.912	2.09276
-93.159	5129.657	106.445	2.13494
-93.159	5129.657	108.978	2.20174
-93.159	5133.609	87.353	4.90263
-93.159	5133.609	89.903	3.30798
-93.159	5133.609	92.453	3.06352
-93.159	5133.609	95.003	2.28612
-93.159	5133.609	97.553	1.95401
-93.159	5133.609	100.103	1.78423
-93.159	5133.609	102.653	1.86062
-93.159	5133.609	105.203	2.01489
-93.159	5133.609	107.754	2.11410
-93.159	5133.609	110.304	2.16709
-93.159	5133.609	112.854	2.23586
-93.159	5137.561	91.079	5.08545
-93.159	5137.561	93.645	3.37872
-93.159	5137.561	96.210	3.10501
-93.159	5137.561	98.776	2.31982
-93.159	5137.561	101.341	1.97850
-93.159	5137.561	103.907	1.81089
-93.159	5137.561	106.473	1.87832
-93.159	5137.561	109.038	2.03631
-93.159	5137.561	111.604	2.13853
-93.159	5137.561	114.169	2.20212
-93.159	5137.561	116.735	2.27216
-93.159	5141.513	94.824	5.26817
-93.159	5141.513	97.404	3.44997
-93.159	5141.513	99.983	3.13740
-93.159	5141.513	102.563	2.34879
-93.159	5141.513	105.143	1.99738
-93.159	5141.513	107.722	1.83783
-93.159	5141.513	110.302	1.89628
-93.159	5141.513	112.882	2.05649
-93.159	5141.513	115.461	2.16732
-93.159	5141.513	118.041	2.23753
-93.159	5141.513	120.620	2.31159
-93.159	5145.464	98.525	5.61706
-93.159	5145.464	101.008	3.47812
-93.159	5145.464	103.491	3.23901
-93.159	5145.464	105.975	2.45810
-93.159	5145.464	108.458	2.06455
-93.159	5145.464	110.941	1.89124
-93.159	5145.464	113.425	1.86995
-93.159	5145.464	115.908	2.03263
-93.159	5145.464	118.392	2.15837
-93.159	5145.464	120.875	2.25401
-93.159	5145.464	123.358	2.29450

APPENDIX II

FIGURE 1 A-A' DATA

-93.159	5149.416	102.238	5.99557
-93.159	5149.416	104.622	3.47535
-93.159	5149.416	107.006	3.34374
-93.159	5149.416	109.390	2.58096
-93.159	5149.416	111.773	2.13878
-93.159	5149.416	114.157	1.94897
-93.159	5149.416	116.541	1.85611
-93.159	5149.416	118.925	1.99722
-93.159	5149.416	121.308	2.14317
-93.159	5149.416	123.692	2.25173
-93.159	5149.416	126.076	2.32033
-89.207	5070.380	31.765	3.62548
-89.207	5070.380	33.960	1.64596
-89.207	5070.380	36.156	1.35694
-89.207	5070.380	38.352	1.30214
-89.207	5070.380	40.548	1.44329
-89.207	5070.380	42.743	1.60731
-89.207	5070.380	44.939	1.75415
-89.207	5070.380	47.135	1.82192
-89.207	5070.380	49.330	1.86158
-89.207	5070.380	51.526	1.85300
-89.207	5070.380	53.722	5.27561
-89.207	5074.332	34.598	3.54879
-89.207	5074.332	36.863	1.79294
-89.207	5074.332	39.128	1.44155
-89.207	5074.332	41.392	1.33302
-89.207	5074.332	43.657	1.45154
-89.207	5074.332	45.922	1.61745
-89.207	5074.332	48.187	1.76779
-89.207	5074.332	50.452	1.85594
-89.207	5074.332	52.717	1.87850
-89.207	5074.332	54.982	1.88787
-89.207	5074.332	57.247	4.81378
-89.207	5078.284	37.433	3.41832
-89.207	5078.284	39.771	2.00683
-89.207	5078.284	42.110	1.54717
-89.207	5078.284	44.448	1.41767
-89.207	5078.284	46.787	1.46011
-89.207	5078.284	49.125	1.62530
-89.207	5078.284	51.463	1.78027
-89.207	5078.284	53.802	1.88632
-89.207	5078.284	56.140	1.91100
-89.207	5078.284	58.479	1.92213
-89.207	5078.284	60.817	4.30928
-89.207	5082.235	40.342	3.11917
-89.207	5082.235	42.751	2.28276
-89.207	5082.235	45.159	1.66995
-89.207	5082.235	47.568	1.50104
-89.207	5082.235	49.977	1.47432
-89.207	5082.235	52.385	1.63295
-89.207	5082.235	54.794	1.79274
-89.207	5082.235	57.202	1.91296
-89.207	5082.235	59.611	1.94153
-89.207	5082.235	62.020	1.95526

-89.207	5082.235	64.428	3.71009
-89.207	5086.187	43.418	2.76203
-89.207	5086.187	45.885	2.53775
-89.207	5086.187	48.351	1.79901
-89.207	5086.187	50.817	1.58738
-89.207	5086.187	53.283	1.50145
-89.207	5086.187	55.749	1.64363
-89.207	5086.187	58.215	1.80815
-89.207	5086.187	60.681	1.93240
-89.207	5086.187	63.147	1.96971
-89.207	5086.187	65.613	1.98503
-89.207	5086.187	68.080	2.82787
-89.207	5090.139	46.630	2.97954
-89.207	5090.139	49.143	2.62572
-89.207	5090.139	51.657	1.93219
-89.207	5090.139	54.170	1.67296
-89.207	5090.139	56.684	1.54670
-89.207	5090.139	59.197	1.65610
-89.207	5090.139	61.711	1.82333
-89.207	5090.139	64.224	1.94900
-89.207	5090.139	66.738	1.99594
-89.207	5090.139	69.251	2.00961
-89.207	5090.139	71.764	1.94854
-89.207	5094.091	49.950	3.18897
-89.207	5094.091	52.502	2.71015
-89.207	5094.091	55.055	2.06816
-89.207	5094.091	57.608	1.75590
-89.207	5094.091	60.161	1.61140
-89.207	5094.091	62.714	1.66958
-89.207	5094.091	65.266	1.83871
-89.207	5094.091	67.819	1.96556
-89.207	5094.091	70.372	2.01989
-89.207	5094.091	72.925	2.02285
-89.207	5094.091	75.478	1.97692
-89.207	5098.043	53.357	3.39557
-89.207	5098.043	55.943	2.79318
-89.207	5098.043	58.529	2.21299
-89.207	5098.043	61.115	1.83487
-89.207	5098.043	63.700	1.66361
-89.207	5098.043	66.286	1.68354
-89.207	5098.043	68.872	1.85375
-89.207	5098.043	71.458	1.98171
-89.207	5098.043	74.044	2.04158
-89.207	5098.043	76.629	2.04196
-89.207	5098.043	79.215	2.00603
-89.207	5101.995	56.837	3.60160
-89.207	5101.995	59.450	2.87594
-89.207	5101.995	62.064	2.35750
-89.207	5101.995	64.678	1.90890
-89.207	5101.995	67.291	1.71236
-89.207	5101.995	69.905	1.69769
-89.207	5101.995	72.519	1.86820
-89.207	5101.995	75.132	1.99795
-89.207	5101.995	77.746	2.06423

-89.207	5101.995	80.360	2.07016
-89.207	5101.995	82.973	2.03403
-89.207	5105.946	60.375	3.80793
-89.207	5105.946	63.013	2.95901
-89.207	5105.946	65.650	2.49646
-89.207	5105.946	68.288	1.97744
-89.207	5105.946	70.925	1.75748
-89.207	5105.946	73.562	1.71186
-89.207	5105.946	76.200	1.88192
-89.207	5105.946	78.837	2.01261
-89.207	5105.946	81.475	2.08980
-89.207	5105.946	84.112	2.09620
-89.207	5105.946	86.750	2.06292
-89.207	5109.898	63.963	4.01480
-89.207	5109.898	66.621	3.04290
-89.207	5109.898	69.279	2.62793
-89.207	5109.898	71.936	2.04012
-89.207	5109.898	74.594	1.79893
-89.207	5109.898	77.252	1.72599
-89.207	5109.898	79.910	1.89454
-89.207	5109.898	82.568	2.03042
-89.207	5109.898	85.226	2.11437
-89.207	5109.898	87.883	2.12220
-89.207	5109.898	90.541	2.09101
-89.207	5113.850	67.592	4.22217
-89.207	5113.850	70.267	3.12682
-89.207	5113.850	72.943	2.75030
-89.207	5113.850	75.618	2.09684
-89.207	5113.850	78.294	1.83681
-89.207	5113.850	80.969	1.74010
-89.207	5113.850	83.645	1.90658
-89.207	5113.850	86.320	2.05143
-89.207	5113.850	88.996	2.13746
-89.207	5113.850	91.671	-106.00000
-89.207	5113.850	94.346	2.12200
-89.207	5117.802	71.256	4.42992
-89.207	5117.802	73.947	3.21111
-89.207	5117.802	76.637	2.86242
-89.207	5117.802	79.328	2.14766
-89.207	5117.802	82.019	1.87120
-89.207	5117.802	84.710	1.75430
-89.207	5117.802	87.400	1.92163
-89.207	5117.802	90.091	2.07100
-89.207	5117.802	92.782	2.16136
-89.207	5117.802	95.473	2.17396
-89.207	5117.802	98.164	2.15793
-89.207	5121.754	74.949	4.63789
-89.207	5121.754	77.653	3.29567
-89.207	5121.754	80.358	2.96350
-89.207	5121.754	83.062	2.19276
-89.207	5121.754	85.766	1.90231
-89.207	5121.754	88.470	1.76738
-89.207	5121.754	91.174	1.94003
-89.207	5121.754	93.879	2.09012

-89.207	5121.754	96.583	2.18433
-89.207	5121.754	99.287	2.20481
-89.207	5121.754	101.991	2.19613
-89.207	5125.705	78.668	4.84613
-89.207	5125.705	81.384	3.38035
-89.207	5125.705	84.100	3.02123
-89.207	5125.705	86.816	2.23240
-89.207	5125.705	89.532	1.93034
-89.207	5125.705	92.248	1.78441
-89.207	5125.705	94.964	1.95717
-89.207	5125.705	97.680	2.10975
-89.207	5125.705	100.396	2.20619
-89.207	5125.705	103.112	2.23912
-89.207	5125.705	105.828	2.23593
-89.207	5129.657	82.409	5.05404
-89.207	5129.657	85.135	3.49181
-89.207	5129.657	87.862	3.05980
-89.207	5129.657	90.588	2.26691
-89.207	5129.657	93.315	1.95411
-89.207	5129.657	96.041	1.80597
-89.207	5129.657	98.768	1.97340
-89.207	5129.657	101.494	2.12971
-89.207	5129.657	104.221	2.23300
-89.207	5129.657	106.947	2.27519
-89.207	5129.657	109.674	2.27929
-89.207	5133.609	86.120	5.38077
-89.207	5133.609	88.768	3.58195
-89.207	5133.609	91.416	3.14598
-89.207	5133.609	94.065	2.35384
-89.207	5133.609	96.713	2.00785
-89.207	5133.609	99.361	1.85504
-89.207	5133.609	102.009	1.94553
-89.207	5133.609	104.657	2.11817
-89.207	5133.609	107.305	2.23281
-89.207	5133.609	109.953	2.30412
-89.207	5133.609	112.601	2.34054
-89.207	5137.561	89.829	5.77989
-89.207	5137.561	92.363	3.62160
-89.207	5137.561	94.897	3.25491
-89.207	5137.561	97.431	2.47350
-89.207	5137.561	99.965	2.08022
-89.207	5137.561	102.499	1.91123
-89.207	5137.561	105.033	1.90128
-89.207	5137.561	107.567	2.08722
-89.207	5137.561	110.101	2.21735
-89.207	5137.561	112.635	2.32025
-89.207	5137.561	115.169	2.36003
-89.207	5141.513	93.555	6.20035
-89.207	5141.513	95.981	3.62639
-89.207	5141.513	98.407	3.36024
-89.207	5141.513	100.832	2.60251
-89.207	5141.513	103.258	2.15679
-89.207	5141.513	105.683	1.97000
-89.207	5141.513	108.109	1.87497

-89.207	5141.513	110.535	2.04586
-89.207	5141.513	112.960	2.19901
-89.207	5141.513	115.386	2.31286
-89.207	5141.513	117.811	2.38652
-89.207	5145.464	97.298	6.64310
-89.207	5145.464	99.621	3.63831
-89.207	5145.464	101.944	3.46081
-89.207	5145.464	104.266	2.74277
-89.207	5145.464	106.589	2.23787
-89.207	5145.464	108.912	2.03083
-89.207	5145.464	111.234	1.91306
-89.207	5145.464	113.557	1.99599
-89.207	5145.464	115.879	2.17471
-89.207	5145.464	118.202	2.29847
-89.207	5145.464	120.525	2.40314
-89.207	5149.416	101.056	7.10914
-89.207	5149.416	103.281	3.84701
-89.207	5149.416	105.506	3.55537
-89.207	5149.416	107.730	2.89748
-89.207	5149.416	109.955	2.32387
-89.207	5149.416	112.180	2.09459
-89.207	5149.416	114.405	1.96444
-89.207	5149.416	116.629	1.95173
-89.207	5149.416	118.854	2.14180
-89.207	5149.416	121.079	2.28157
-89.207	5149.416	123.304	2.39643
-85.255	5070.380	29.204	3.25178
-85.255	5070.380	31.819	1.72895
-85.255	5070.380	34.435	1.44410
-85.255	5070.380	37.051	1.39319
-85.255	5070.380	39.666	1.61238
-85.255	5070.380	42.282	1.82285
-85.255	5070.380	44.898	1.98604
-85.255	5070.380	47.513	2.03090
-85.255	5070.380	50.129	1.97565
-85.255	5070.380	52.745	3.92652
-85.255	5070.380	55.360	5.91024
-85.255	5074.332	32.031	3.16898
-85.255	5074.332	34.706	1.95142
-85.255	5074.332	37.381	1.55118
-85.255	5074.332	40.056	1.45968
-85.255	5074.332	42.731	1.59882
-85.255	5074.332	45.406	1.81665
-85.255	5074.332	48.081	1.98404
-85.255	5074.332	50.756	2.05435
-85.255	5074.332	53.431	2.02512
-85.255	5074.332	56.106	1.92560
-85.255	5074.332	58.781	5.60202
-85.255	5078.284	34.945	2.91363
-85.255	5078.284	37.677	2.24542
-85.255	5078.284	40.408	1.67730
-85.255	5078.284	43.140	1.54077
-85.255	5078.284	45.871	1.58785
-85.255	5078.284	48.603	1.81034

-85.255	5078.284	51.335	1.98490
-85.255	5078.284	54.066	2.07600
-85.255	5078.284	56.798	2.07887
-85.255	5078.284	59.529	1.95863
-85.255	5078.284	62.261	5.30143
-85.255	5082.235	38.051	2.65875
-85.255	5082.235	40.826	2.51303
-85.255	5082.235	43.600	1.81228
-85.255	5082.235	46.375	1.62409
-85.255	5082.235	49.149	1.58734
-85.255	5082.235	51.924	1.80861
-85.255	5082.235	54.698	1.98951
-85.255	5082.235	57.473	2.09607
-85.255	5082.235	60.248	2.10018
-85.255	5082.235	63.022	1.99154
-85.255	5082.235	65.797	5.00790
-85.255	5086.187	41.305	2.90403
-85.255	5086.187	44.113	2.62527
-85.255	5086.187	46.920	1.95575
-85.255	5086.187	49.728	1.70644
-85.255	5086.187	52.535	1.60068
-85.255	5086.187	55.343	1.80964
-85.255	5086.187	58.150	1.99634
-85.255	5086.187	60.958	2.11289
-85.255	5086.187	63.765	2.12035
-85.255	5086.187	66.573	2.02476
-85.255	5086.187	69.380	4.72248
-85.255	5090.139	44.675	3.14428
-85.255	5090.139	47.508	2.73439
-85.255	5090.139	50.341	2.10540
-85.255	5090.139	53.173	1.78564
-85.255	5090.139	56.006	1.64985
-85.255	5090.139	58.839	1.81225
-85.255	5090.139	61.672	2.00508
-85.255	5090.139	64.505	2.12236
-85.255	5090.139	67.337	2.13961
-85.255	5090.139	70.170	2.06131
-85.255	5090.139	73.003	4.42498
-85.255	5094.091	48.135	3.38307
-85.255	5094.091	50.988	2.84174
-85.255	5094.091	53.840	2.25200
-85.255	5094.091	56.693	1.86030
-85.255	5094.091	59.545	1.69802
-85.255	5094.091	62.397	1.81567
-85.255	5094.091	65.250	2.01339
-85.255	5094.091	68.102	2.13005
-85.255	5094.091	70.955	2.16127
-85.255	5094.091	73.807	2.09811
-85.255	5094.091	76.660	4.10647
-85.255	5098.043	51.667	3.62176
-85.255	5098.043	54.535	2.94844
-85.255	5098.043	57.403	2.39275
-85.255	5098.043	60.271	1.92951
-85.255	5098.043	63.138	1.74285

-85.255	5098.043	66.006	1.81947
-85.255	5098.043	68.874	2.02159
-85.255	5098.043	71.742	2.13952
-85.255	5098.043	74.610	2.18576
-85.255	5098.043	77.477	2.13327
-85.255	5098.043	80.345	3.75028
-85.255	5101.995	55.257	3.86073
-85.255	5101.995	58.137	3.05392
-85.255	5101.995	61.017	2.52551
-85.255	5101.995	63.897	1.99284
-85.255	5101.995	66.777	1.78417
-85.255	5101.995	69.656	1.82336
-85.255	5101.995	72.536	2.02903
-85.255	5101.995	75.416	2.15417
-85.255	5101.995	78.296	2.20840
-85.255	5101.995	81.176	2.16860
-85.255	5101.995	84.056	3.31451
-85.255	5105.946	58.894	4.09996
-85.255	5105.946	61.784	3.15879
-85.255	5105.946	64.673	2.64861
-85.255	5105.946	67.562	2.05007
-85.255	5105.946	70.452	1.82197
-85.255	5105.946	73.341	1.82725
-85.255	5105.946	76.230	2.03853
-85.255	5105.946	79.120	2.17103
-85.255	5105.946	82.009	2.23088
-85.255	5105.946	84.898	2.20543
-85.255	5105.946	87.788	2.59906
-85.255	5109.898	62.570	4.33927
-85.255	5109.898	65.467	3.26300
-85.255	5109.898	68.364	2.76104
-85.255	5109.898	71.260	2.10129
-85.255	5109.898	74.157	1.85633
-85.255	5109.898	77.054	1.83043
-85.255	5109.898	79.951	2.05169
-85.255	5109.898	82.848	2.18625
-85.255	5109.898	85.745	2.25399
-85.255	5109.898	88.641	2.25181
-85.255	5109.898	91.538	2.11457
-85.255	5113.850	66.278	4.57870
-85.255	5113.850	69.181	3.36834
-85.255	5113.850	72.083	2.86221
-85.255	5113.850	74.986	2.14667
-85.255	5113.850	77.889	1.88743
-85.255	5113.850	80.792	1.83491
-85.255	5113.850	83.694	2.06776
-85.255	5113.850	86.597	2.20242
-85.255	5113.850	89.500	2.27610
-85.255	5113.850	92.403	2.28452
-85.255	5113.850	95.306	2.15455
-85.255	5117.802	70.013	4.81757
-85.255	5117.802	72.920	3.51779
-85.255	5117.802	75.828	2.95214
-85.255	5117.802	78.735	2.18653

-85.255	5117.802	81.643	1.91546
-85.255	5117.802	84.550	1.84321
-85.255	5117.802	87.458	2.08143
-85.255	5117.802	90.365	2.21952
-85.255	5117.802	93.272	2.30321
-85.255	5117.802	96.180	2.32016
-85.255	5117.802	99.087	2.19808
-85.255	5121.754	73.736	5.12920
-85.255	5121.754	76.586	3.64281
-85.255	5121.754	79.436	3.05127
-85.255	5121.754	82.286	2.25390
-85.255	5121.754	85.135	1.95741
-85.255	5121.754	87.985	1.83423
-85.255	5121.754	90.835	2.06805
-85.255	5121.754	93.684	2.21832
-85.255	5121.754	96.534	2.32552
-85.255	5121.754	99.384	2.35498
-85.255	5121.754	102.234	2.27110
-85.255	5125.705	77.439	5.55261
-85.255	5125.705	80.156	3.73179
-85.255	5125.705	82.873	3.16456
-85.255	5125.705	85.590	2.36833
-85.255	5125.705	88.308	2.02650
-85.255	5125.705	91.025	1.87956
-85.255	5125.705	93.742	2.00701
-85.255	5125.705	96.460	2.19055
-85.255	5125.705	99.177	2.30982
-85.255	5125.705	101.894	2.38276
-85.255	5125.705	104.612	2.38727
-85.255	5129.657	81.162	6.00065
-85.255	5129.657	83.754	3.79225
-85.255	5129.657	86.345	3.27415
-85.255	5129.657	88.937	2.49252
-85.255	5129.657	91.529	2.10022
-85.255	5129.657	94.121	1.93625
-85.255	5129.657	96.713	1.94274
-85.255	5129.657	99.305	2.15488
-85.255	5129.657	101.897	2.28977
-85.255	5129.657	104.489	2.40007
-85.255	5129.657	107.081	2.43815
-85.255	5133.609	84.903	6.47454
-85.255	5133.609	87.376	3.81620
-85.255	5133.609	89.850	3.37866
-85.255	5133.609	92.323	2.62870
-85.255	5133.609	94.796	2.17885
-85.255	5133.609	97.269	1.99570
-85.255	5133.609	99.743	1.89616
-85.255	5133.609	102.216	2.10687
-85.255	5133.609	104.689	2.26685
-85.255	5133.609	107.162	2.38690
-85.255	5133.609	109.636	2.46537
-85.255	5137.561	88.661	6.97553
-85.255	5137.561	91.022	3.94486
-85.255	5137.561	93.383	3.47658

APPENDIX II

FIGURE 1 A-A' DATA

-85.255	5137.561	95.743	2.78077
-85.255	5137.561	98.104	2.26283
-85.255	5137.561	100.465	2.05788
-85.255	5137.561	102.826	1.94231
-85.255	5137.561	105.187	2.04258
-85.255	5137.561	107.548	2.23810
-85.255	5137.561	109.909	2.36818
-85.255	5137.561	112.269	2.48167
-85.255	5141.513	92.433	7.50495
-85.255	5141.513	94.688	4.23759
-85.255	5141.513	96.942	3.56624
-85.255	5141.513	99.197	2.95009
-85.255	5141.513	101.451	2.35282
-85.255	5141.513	103.705	2.12348
-85.255	5141.513	105.960	1.99481
-85.255	5141.513	108.214	1.97899
-85.255	5141.513	110.469	2.19891
-85.255	5141.513	112.723	2.34638
-85.255	5141.513	114.978	2.46766
-85.255	5145.464	96.219	8.06421
-85.255	5145.464	98.372	4.56174
-85.255	5145.464	100.526	3.64587
-85.255	5145.464	102.679	3.01910
-85.255	5145.464	104.833	2.44986
-85.255	5145.464	106.987	2.19267
-85.255	5145.464	109.140	-106.00000
-85.255	5145.464	111.294	1.96203
-85.255	5145.464	113.448	2.14339
-85.255	5145.464	115.601	2.32018
-85.255	5145.464	117.755	2.44957
-85.255	5149.416	100.016	8.65477
-85.255	5149.416	102.074	4.92498
-85.255	5149.416	104.132	3.71357
-85.255	5149.416	106.190	3.07824
-85.255	5149.416	108.248	2.55542
-85.255	5149.416	110.306	2.26569
-85.255	5149.416	112.364	-106.00000
-85.255	5149.416	114.422	2.01099
-85.255	5149.416	116.481	2.07596
-85.255	5149.416	118.539	2.28473
-85.255	5149.416	120.597	2.42821
-81.303	5070.380	26.653	2.95451
-81.303	5070.380	29.707	1.94257
-81.303	5070.380	32.761	1.59200
-81.303	5070.380	35.816	1.53378
-81.303	5070.380	38.870	1.80580
-81.303	5070.380	41.924	2.06236
-81.303	5070.380	44.978	2.22739
-81.303	5070.380	48.032	2.24597
-81.303	5070.380	51.086	2.04468
-81.303	5070.380	54.141	5.06196
-81.303	5070.380	57.195	6.20269
-81.303	5074.332	29.576	2.71217
-81.303	5074.332	32.669	2.27092

-81.303	5074.332	35.763	1.72083
-81.303	5074.332	38.856	1.60792
-81.303	5074.332	41.950	1.76653
-81.303	5074.332	45.043	2.04086
-81.303	5074.332	48.137	2.21082
-81.303	5074.332	51.230	2.25648
-81.303	5074.332	54.324	2.09295
-81.303	5074.332	57.418	4.53835
-81.303	5074.332	60.511	5.96100
-81.303	5078.284	32.721	2.60586
-81.303	5078.284	35.839	2.53289
-81.303	5078.284	38.958	1.86523
-81.303	5078.284	42.076	1.68504
-81.303	5078.284	45.194	1.73601
-81.303	5078.284	48.312	2.02675
-81.303	5078.284	51.431	2.20012
-81.303	5078.284	54.549	2.26737
-81.303	5078.284	57.667	2.14710
-81.303	5078.284	60.785	3.93248
-81.303	5078.284	63.904	5.75082
-81.303	5082.235	36.031	2.88610
-81.303	5082.235	39.164	2.67115
-81.303	5082.235	42.297	2.01402
-81.303	5082.235	45.430	1.76117
-81.303	5082.235	48.563	1.71227
-81.303	5082.235	51.695	2.01580
-81.303	5082.235	54.828	2.19426
-81.303	5082.235	57.961	2.27815
-81.303	5082.235	61.094	2.22968
-81.303	5082.235	64.227	3.06986
-81.303	5082.235	67.360	5.54763
-81.303	5086.187	39.462	3.16445
-81.303	5086.187	42.603	2.80754
-81.303	5086.187	45.744	2.16061
-81.303	5086.187	48.884	1.83380
-81.303	5086.187	52.025	1.70152
-81.303	5086.187	55.166	2.00690
-81.303	5086.187	58.307	2.19116
-81.303	5086.187	61.448	2.28754
-81.303	5086.187	64.588	2.27978
-81.303	5086.187	67.729	2.04745
-81.303	5086.187	70.870	5.35649
-81.303	5090.139	42.985	3.44269
-81.303	5090.139	46.129	2.94151
-81.303	5090.139	49.273	2.30124
-81.303	5090.139	52.417	1.90152
-81.303	5090.139	55.561	1.74948
-81.303	5090.139	58.705	1.99896
-81.303	5090.139	61.849	2.19047
-81.303	5090.139	64.993	2.29759
-81.303	5090.139	68.137	2.29931
-81.303	5090.139	71.281	2.08238
-81.303	5090.139	74.425	5.17186
-81.303	5094.091	46.578	3.72119

-81.303	5094.091	49.722	3.07374
-81.303	5094.091	52.866	2.43336
-81.303	5094.091	56.010	1.96353
-81.303	5094.091	59.154	1.78843
-81.303	5094.091	62.299	1.99175
-81.303	5094.091	65.443	2.19002
-81.303	5094.091	68.587	2.31004
-81.303	5094.091	71.731	2.31799
-81.303	5094.091	74.875	2.11888
-81.303	5094.091	78.019	4.99936
-81.303	5098.043	50.225	3.99980
-81.303	5098.043	53.368	3.20429
-81.303	5098.043	56.510	2.55527
-81.303	5098.043	59.652	2.01958
-81.303	5098.043	62.794	1.82424
-81.303	5098.043	65.936	1.98504
-81.303	5098.043	69.078	2.19429
-81.303	5098.043	72.221	2.31919
-81.303	5098.043	75.363	2.33766
-81.303	5098.043	78.505	2.15580
-81.303	5098.043	81.647	4.84163
-81.303	5101.995	53.916	4.27847
-81.303	5101.995	57.055	3.35074
-81.303	5101.995	60.194	2.66615
-81.303	5101.995	63.333	2.06964
-81.303	5101.995	66.471	1.85693
-81.303	5101.995	69.610	1.97806
-81.303	5101.995	72.749	2.20396
-81.303	5101.995	75.888	2.32923
-81.303	5101.995	79.026	2.35875
-81.303	5101.995	82.165	2.19877
-81.303	5101.995	85.304	4.68551
-81.303	5105.946	57.642	4.55634
-81.303	5105.946	60.777	3.50502
-81.303	5105.946	63.911	2.76578
-81.303	5105.946	67.045	2.11392
-81.303	5105.946	70.180	1.88657
-81.303	5105.946	73.314	1.97483
-81.303	5105.946	76.449	2.21396
-81.303	5105.946	79.583	2.34058
-81.303	5105.946	82.717	2.37957
-81.303	5105.946	85.852	2.24637
-81.303	5105.946	88.986	4.52884
-81.303	5109.898	61.380	4.86345
-81.303	5109.898	64.481	3.64371
-81.303	5109.898	67.581	2.88950
-81.303	5109.898	70.681	2.16491
-81.303	5109.898	73.781	1.91965
-81.303	5109.898	76.881	1.95804
-81.303	5109.898	79.981	2.21373
-81.303	5109.898	83.081	2.34618
-81.303	5109.898	86.182	2.40755
-81.303	5109.898	89.282	2.31752
-81.303	5109.898	92.382	4.02898

-81.303	5113.850	65.075	5.31651
-81.303	5113.850	68.019	3.77125
-81.303	5113.850	70.963	3.07658
-81.303	5113.850	73.908	2.27156
-81.303	5113.850	76.852	1.98324
-81.303	5113.850	79.797	1.86676
-81.303	5113.850	82.741	2.16307
-81.303	5113.850	85.686	2.31503
-81.303	5113.850	88.630	2.42546
-81.303	5113.850	91.575	2.44888
-81.303	5113.850	94.519	2.27750
-81.303	5117.802	68.793	5.79840
-81.303	5117.802	71.591	3.87162
-81.303	5117.802	74.388	3.19032
-81.303	5117.802	77.186	2.38800
-81.303	5117.802	79.983	2.05206
-81.303	5117.802	82.780	1.91191
-81.303	5117.802	85.578	2.09224
-81.303	5117.802	88.375	2.28117
-81.303	5117.802	91.173	2.40597
-81.303	5117.802	93.970	2.47848
-81.303	5117.802	96.767	2.44248
-81.303	5121.754	72.533	6.31067
-81.303	5121.754	75.192	3.93477
-81.303	5121.754	77.851	3.29895
-81.303	5121.754	80.509	2.51643
-81.303	5121.754	83.168	2.12632
-81.303	5121.754	85.826	1.96834
-81.303	5121.754	88.485	2.00063
-81.303	5121.754	91.144	2.24006
-81.303	5121.754	93.802	2.38011
-81.303	5121.754	96.461	2.49631
-81.303	5121.754	99.120	2.53146
-81.303	5125.705	76.291	6.85497
-81.303	5125.705	78.819	3.94644
-81.303	5125.705	81.347	3.40070
-81.303	5125.705	83.875	2.66111
-81.303	5125.705	86.403	2.20639
-81.303	5125.705	88.930	2.02786
-81.303	5125.705	91.458	1.92811
-81.303	5125.705	93.986	2.18470
-81.303	5125.705	96.514	2.35100
-81.303	5125.705	99.041	2.47792
-81.303	5125.705	101.569	2.56021
-81.303	5129.657	80.066	7.43306
-81.303	5129.657	82.470	4.18885
-81.303	5129.657	84.874	3.49364
-81.303	5129.657	87.279	2.83220
-81.303	5129.657	89.683	2.29289
-81.303	5129.657	92.087	2.09086
-81.303	5129.657	94.492	1.97814
-81.303	5129.657	96.896	2.10415
-81.303	5129.657	99.300	2.31656
-81.303	5129.657	101.705	2.45375

APPENDIX II

FIGURE 1 A-A' DATA

-81.303	5129.657	104.109	2.57430
-81.303	5133.609	83.854	8.04675
-81.303	5133.609	86.142	4.51732
-81.303	5133.609	88.430	3.57565
-81.303	5133.609	90.718	2.97486
-81.303	5133.609	93.006	2.38688
-81.303	5133.609	95.294	2.15787
-81.303	5133.609	97.582	2.03134
-81.303	5133.609	99.869	2.00962
-81.303	5133.609	102.157	2.27007
-81.303	5133.609	104.445	2.42595
-81.303	5133.609	106.733	2.55397
-81.303	5137.561	87.655	8.69799
-81.303	5137.561	89.833	4.87411
-81.303	5137.561	92.011	3.64450
-81.303	5137.561	94.189	3.03856
-81.303	5137.561	96.367	2.49005
-81.303	5137.561	98.545	2.22911
-81.303	5137.561	100.723	-106.00000
-81.303	5137.561	102.901	2.00159
-81.303	5137.561	105.080	2.20197
-81.303	5137.561	107.258	2.39305
-81.303	5137.561	109.436	2.53050
-81.303	5141.513	91.467	9.38882
-81.303	5141.513	93.542	5.25977
-81.303	5141.513	95.616	3.69772
-81.303	5141.513	97.690	3.09605
-81.303	5141.513	99.765	2.60720
-81.303	5141.513	101.839	2.30500
-81.303	5141.513	103.913	2.14877
-81.303	5141.513	105.988	2.05200
-81.303	5141.513	108.062	2.10828
-81.303	5141.513	110.136	2.34963
-81.303	5141.513	112.211	2.50292
-81.303	5145.464	95.290	10.12140
-81.303	5145.464	97.266	5.67188
-81.303	5145.464	99.243	3.73271
-81.303	5145.464	101.219	3.14949
-81.303	5145.464	103.195	2.74496
-81.303	5145.464	105.172	2.38614
-81.303	5145.464	107.148	2.20960
-81.303	5145.464	109.125	2.10534
-81.303	5145.464	111.101	2.05270
-81.303	5145.464	113.077	2.28606
-81.303	5145.464	115.054	2.46989
-81.303	5149.416	99.121	10.89810
-81.303	5149.416	101.005	6.10318
-81.303	5149.416	102.889	3.74662
-81.303	5149.416	104.773	3.19824
-81.303	5149.416	106.656	2.90485
-81.303	5149.416	108.540	2.47355
-81.303	5149.416	110.424	2.27427
-81.303	5149.416	112.308	2.16164
-81.303	5149.416	114.192	2.10263

-81.303	5149.416	116.076	2.19262
-81.303	5149.416	117.960	2.42674
-77.351	5070.380	24.238	2.48810
-77.351	5070.380	27.735	2.41530
-77.351	5070.380	31.233	1.81682
-77.351	5070.380	34.730	1.71558
-77.351	5070.380	38.227	2.03236
-77.351	5070.380	41.725	2.32276
-77.351	5070.380	45.222	2.47960
-77.351	5070.380	48.720	2.47386
-77.351	5070.380	52.217	2.56569
-77.351	5070.380	55.714	5.60406
-77.351	5070.380	59.212	6.42217
-77.351	5074.332	27.441	2.62157
-77.351	5074.332	30.940	2.61730
-77.351	5074.332	34.439	1.95886
-77.351	5074.332	37.938	1.78095
-77.351	5074.332	41.437	1.97136
-77.351	5074.332	44.937	2.28929
-77.351	5074.332	48.436	2.45333
-77.351	5074.332	51.935	2.46813
-77.351	5074.332	55.434	2.13781
-77.351	5074.332	58.933	5.26848
-77.351	5074.332	62.432	6.22103
-77.351	5078.284	30.826	2.95023
-77.351	5078.284	34.317	2.78498
-77.351	5078.284	37.807	2.10109
-77.351	5078.284	41.298	1.84583
-77.351	5078.284	44.789	1.91543
-77.351	5078.284	48.280	2.26326
-77.351	5078.284	51.771	2.42756
-77.351	5078.284	55.262	2.46504
-77.351	5078.284	58.753	2.18220
-77.351	5078.284	62.244	4.93295
-77.351	5078.284	65.735	6.04618
-77.351	5082.235	34.335	3.27960
-77.351	5082.235	37.812	2.95145
-77.351	5082.235	41.289	2.23763
-77.351	5082.235	44.766	1.90736
-77.351	5082.235	48.244	1.85868
-77.351	5082.235	51.721	2.24231
-77.351	5082.235	55.198	2.40801
-77.351	5082.235	58.675	2.46831
-77.351	5082.235	62.153	2.23466
-77.351	5082.235	65.630	4.58879
-77.351	5082.235	69.107	5.88547
-77.351	5086.187	37.932	3.60950
-77.351	5086.187	41.393	3.11590
-77.351	5086.187	44.854	2.36508
-77.351	5086.187	48.314	1.96417
-77.351	5086.187	51.775	1.82301
-77.351	5086.187	55.236	2.22435
-77.351	5086.187	58.697	2.39364
-77.351	5086.187	62.157	2.47757

-77.351	5086.187	65.618	2.29542
-77.351	5086.187	69.079	4.21590
-77.351	5086.187	72.539	5.75692
-77.351	5090.139	41.595	3.93958
-77.351	5090.139	45.038	3.29434
-77.351	5090.139	48.481	2.48158
-77.351	5090.139	51.923	2.01561
-77.351	5090.139	55.366	1.85326
-77.351	5090.139	58.809	2.20825
-77.351	5090.139	62.251	2.38739
-77.351	5090.139	65.694	2.48661
-77.351	5090.139	69.137	2.37795
-77.351	5090.139	72.579	3.78207
-77.351	5090.139	76.022	5.64754
-77.351	5094.091	45.307	4.26859
-77.351	5094.091	48.731	3.46394
-77.351	5094.091	52.155	2.58659
-77.351	5094.091	55.579	2.06156
-77.351	5094.091	59.004	1.88119
-77.351	5094.091	62.428	2.19376
-77.351	5094.091	65.852	2.38807
-77.351	5094.091	69.276	2.49705
-77.351	5094.091	72.700	2.48240
-77.351	5094.091	76.125	3.19284
-77.351	5094.091	79.549	5.55391
-77.351	5098.043	49.056	4.59635
-77.351	5098.043	52.462	3.60924
-77.351	5098.043	55.867	2.68032
-77.351	5098.043	59.273	2.10217
-77.351	5098.043	62.679	1.90677
-77.351	5098.043	66.085	2.18539
-77.351	5098.043	69.491	2.38905
-77.351	5098.043	72.896	2.50784
-77.351	5098.043	76.302	2.50328
-77.351	5098.043	79.708	2.19792
-77.351	5098.043	83.114	5.46915
-77.351	5101.995	52.747	5.07866
-77.351	5101.995	55.977	3.76782
-77.351	5101.995	59.207	2.95962
-77.351	5101.995	62.438	2.19414
-77.351	5101.995	65.668	1.96077
-77.351	5101.995	68.899	2.07848
-77.351	5101.995	72.129	2.34405
-77.351	5101.995	75.359	-106.00000
-77.351	5101.995	78.590	2.53136
-77.351	5101.995	81.820	2.33440
-77.351	5101.995	85.050	4.45982
-77.351	5105.946	56.461	5.60405
-77.351	5105.946	59.516	3.90164
-77.351	5105.946	62.571	3.11592
-77.351	5105.946	65.627	2.29900
-77.351	5105.946	68.682	2.02126
-77.351	5105.946	71.737	1.90551
-77.351	5105.946	74.793	2.28685

-77.351	5105.946	77.848	2.44056
-77.351	5105.946	80.903	2.54969
-77.351	5105.946	83.959	2.56536
-77.351	5105.946	87.014	2.29433
-77.351	5109.898	60.199	6.16572
-77.351	5109.898	63.090	3.99567
-77.351	5109.898	65.981	3.22780
-77.351	5109.898	68.871	2.41533
-77.351	5109.898	71.762	2.08808
-77.351	5109.898	74.653	1.95590
-77.351	5109.898	77.543	2.20847
-77.351	5109.898	80.434	2.39746
-77.351	5109.898	83.325	2.52826
-77.351	5109.898	86.215	2.59628
-77.351	5109.898	89.106	2.47996
-77.351	5113.850	63.959	6.76593
-77.351	5113.850	66.695	4.02998
-77.351	5113.850	69.430	3.33301
-77.351	5113.850	72.166	2.54672
-77.351	5113.850	74.902	2.16141
-77.351	5113.850	77.638	2.01073
-77.351	5113.850	80.374	2.08718
-77.351	5113.850	83.110	2.34902
-77.351	5113.850	85.846	2.49478
-77.351	5113.850	88.582	2.61438
-77.351	5113.850	91.317	2.64493
-77.351	5117.802	67.736	7.40707
-77.351	5117.802	70.326	4.04065
-77.351	5117.802	72.917	3.42932
-77.351	5117.802	75.507	2.70195
-77.351	5117.802	78.098	2.24169
-77.351	5117.802	80.688	2.06921
-77.351	5117.802	83.279	1.97373
-77.351	5117.802	85.869	2.28578
-77.351	5117.802	88.460	2.45791
-77.351	5117.802	91.050	2.59167
-77.351	5117.802	93.640	2.67594
-77.351	5121.754	71.528	8.09167
-77.351	5121.754	73.982	4.34275
-77.351	5121.754	76.436	3.51433
-77.351	5121.754	78.890	2.91971
-77.351	5121.754	81.344	2.32981
-77.351	5121.754	83.798	2.13207
-77.351	5121.754	86.252	2.02307
-77.351	5121.754	88.706	2.18953
-77.351	5121.754	91.160	2.41529
-77.351	5121.754	93.613	2.56059
-77.351	5121.754	96.067	2.68701
-77.351	5125.705	75.334	8.82239
-77.351	5125.705	77.660	4.65900
-77.351	5125.705	79.985	3.58541
-77.351	5125.705	82.311	3.00504
-77.351	5125.705	84.637	2.42734
-77.351	5125.705	86.962	2.19967

-77.351	5125.705	89.288	2.07619
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-57.592	5145.464	91.002	4.65501
-57.592	5145.464	92.047	3.82810
-57.592	5145.464	93.092	-106.00000
-57.592	5145.464	94.136	3.54760
-57.592	5145.464	95.181	3.39828
-57.592	5145.464	96.226	3.32071
-57.592	5145.464	97.270	3.27133
-57.592	5145.464	98.315	3.71098
-57.592	5145.464	99.360	3.74883
-57.592	5145.464	100.404	3.76617
-57.592	5149.416	93.683	9.03765
-57.592	5149.416	94.684	4.92137
-57.592	5149.416	95.686	3.98065
-57.592	5149.416	96.688	9.52605
-57.592	5149.416	97.689	3.62000
-57.592	5149.416	98.691	3.47104
-57.592	5149.416	99.692	3.39277
-57.592	5149.416	100.694	3.34248
-57.592	5149.416	101.695	3.62777
-57.592	5149.416	102.697	3.79106
-57.592	5149.416	103.699	3.82988
-53.641	5070.380	18.762	6.37950
-53.641	5070.380	22.121	4.80553
-53.641	5070.380	25.480	4.94957
-53.641	5070.380	28.838	3.98522
-53.641	5070.380	32.197	3.50200
-53.641	5070.380	35.555	3.31947
-53.641	5070.380	38.914	4.28068
-53.641	5070.380	42.273	4.56542
-53.641	5070.380	45.631	4.67166
-53.641	5070.380	48.990	4.66099
-53.641	5070.380	52.349	4.60785
-53.641	5074.332	22.359	6.02440
-53.641	5074.332	25.445	4.48281
-53.641	5074.332	28.530	4.60885
-53.641	5074.332	31.616	3.98304
-53.641	5074.332	34.701	3.41340

-53.641	5074.332	37.786	3.20295
-53.641	5074.332	40.872	3.64781
-53.641	5074.332	43.957	4.19097
-53.641	5074.332	47.042	4.43254
-53.641	5074.332	50.128	4.54091
-53.641	5074.332	53.213	4.41852
-53.641	5078.284	25.970	5.78811
-53.641	5078.284	28.807	4.28120
-53.641	5078.284	31.643	4.32843
-53.641	5078.284	34.480	4.04382
-53.641	5078.284	37.316	3.40520
-53.641	5078.284	40.153	3.14056
-53.641	5078.284	42.989	3.03447
-53.641	5078.284	45.826	3.77387
-53.641	5078.284	48.662	4.15874
-53.641	5078.284	51.499	4.38039
-53.641	5078.284	54.335	4.47326
-53.641	5082.235	29.594	5.61138
-53.641	5082.235	32.205	4.14983
-53.641	5082.235	34.815	4.02634
-53.641	5082.235	37.426	3.97754
-53.641	5082.235	40.037	3.48055
-53.641	5082.235	42.647	3.13742
-53.641	5082.235	45.258	2.99754
-53.641	5082.235	47.869	2.93390
-53.641	5082.235	50.480	3.84443
-53.641	5082.235	53.090	4.15833
-53.641	5082.235	55.701	4.35337
-53.641	5086.187	33.229	5.31154
-53.641	5086.187	35.636	4.06146
-53.641	5086.187	38.043	3.47149
-53.641	5086.187	40.449	3.91411
-53.641	5086.187	42.856	3.72384
-53.641	5086.187	45.263	3.18173
-53.641	5086.187	47.669	2.98356
-53.641	5086.187	50.076	2.92263
-53.641	5086.187	52.482	3.32325
-53.641	5086.187	54.889	3.90001
-53.641	5086.187	57.296	4.16431
-53.641	5090.139	36.876	5.07631
-53.641	5090.139	39.099	4.00024
-53.641	5090.139	41.321	3.45018
-53.641	5090.139	43.544	3.83433
-53.641	5090.139	45.767	3.72054
-53.641	5090.139	47.989	3.29169
-53.641	5090.139	50.212	3.01970
-53.641	5090.139	52.434	2.93306
-53.641	5090.139	54.657	2.91080
-53.641	5090.139	56.879	3.49775
-53.641	5090.139	59.102	3.94031
-53.641	5094.091	40.533	5.31751
-53.641	5094.091	42.590	3.95607
-53.641	5094.091	44.647	3.45379
-53.641	5094.091	46.704	3.69106

-53.641	5094.091	48.761	3.72639
-53.641	5094.091	50.818	3.56495
-53.641	5094.091	52.875	3.10192
-53.641	5094.091	54.932	2.96313
-53.641	5094.091	56.989	2.93224
-53.641	5094.091	59.046	2.92421
-53.641	5094.091	61.103	3.59779
-53.641	5098.043	44.200	5.57397
-53.641	5098.043	46.108	3.91102
-53.641	5098.043	48.016	3.47465
-53.641	5098.043	49.924	3.26854
-53.641	5098.043	51.832	3.70888
-53.641	5098.043	53.740	3.59112
-53.641	5098.043	55.648	3.25346
-53.641	5098.043	57.556	3.04003
-53.641	5098.043	59.464	2.96942
-53.641	5098.043	61.372	2.95394
-53.641	5098.043	63.280	2.94745
-53.641	5101.995	47.874	5.84386
-53.641	5101.995	49.649	3.82533
-53.641	5101.995	51.423	3.50745
-53.641	5101.995	53.198	3.29913
-53.641	5101.995	54.972	3.63292
-53.641	5101.995	56.746	3.61216
-53.641	5101.995	58.521	3.51216
-53.641	5101.995	60.295	3.16208
-53.641	5101.995	62.070	3.02658
-53.641	5101.995	63.844	2.99724
-53.641	5101.995	65.618	2.98394
-53.641	5105.946	51.557	6.12548
-53.641	5105.946	53.211	3.74389
-53.641	5105.946	54.866	3.55885
-53.641	5105.946	56.520	3.33646
-53.641	5105.946	58.174	3.44065
-53.641	5105.946	59.829	3.63298
-53.641	5105.946	61.483	3.55971
-53.641	5105.946	63.138	3.38693
-53.641	5105.946	64.792	3.13632
-53.641	5105.946	66.447	3.05419
-53.641	5105.946	68.101	3.03254
-53.641	5109.898	55.246	6.41712
-53.641	5109.898	56.793	3.50961
-53.641	5109.898	58.339	3.61121
-53.641	5109.898	59.886	3.37874
-53.641	5109.898	61.433	3.21492
-53.641	5109.898	62.980	3.58470
-53.641	5109.898	64.527	3.60646
-53.641	5109.898	66.073	3.57173
-53.641	5109.898	67.620	3.30087
-53.641	5109.898	69.167	3.14619
-53.641	5109.898	70.714	3.09332
-53.641	5113.850	58.941	6.71706
-53.641	5113.850	60.391	3.63995
-53.641	5113.850	61.842	3.65993

-53.641	5113.850	63.292	3.42450
-53.641	5113.850	64.742	-106.00000
-53.641	5113.850	66.192	3.44605
-53.641	5113.850	67.642	3.64659
-53.641	5113.850	69.092	3.62934
-53.641	5113.850	70.542	3.60237
-53.641	5113.850	71.993	3.29029
-53.641	5113.850	73.443	3.17116
-53.641	5117.802	62.642	6.93145
-53.641	5117.802	64.005	3.78738
-53.641	5117.802	65.369	3.66408
-53.641	5117.802	66.732	3.47262
-53.641	5117.802	68.096	3.31062
-53.641	5117.802	69.459	3.18540
-53.641	5117.802	70.823	3.62106
-53.641	5117.802	72.186	3.68285
-53.641	5117.802	73.549	3.66631
-53.641	5117.802	74.913	3.55060
-53.641	5117.802	76.276	3.30585
-53.641	5121.754	66.348	7.11171
-53.641	5121.754	67.633	3.95244
-53.641	5121.754	68.919	3.60781
-53.641	5121.754	70.204	3.52215
-53.641	5121.754	71.490	3.35492
-53.641	5121.754	72.776	3.23961
-53.641	5121.754	74.061	3.48963
-53.641	5121.754	75.347	3.72656
-53.641	5121.754	76.632	3.72751
-53.641	5121.754	77.918	3.72089
-53.641	5121.754	79.203	3.50685
-53.641	5125.705	70.058	7.38089
-53.641	5125.705	71.274	4.13628
-53.641	5125.705	72.489	3.49945
-53.641	5125.705	73.705	3.57201
-53.641	5125.705	74.920	3.40227
-53.641	5125.705	76.136	3.29600
-53.641	5125.705	77.352	3.25122
-53.641	5125.705	78.567	3.69389
-53.641	5125.705	79.783	3.78204
-53.641	5125.705	80.998	3.78734
-53.641	5125.705	82.214	3.78269
-53.641	5129.657	73.772	7.73964
-53.641	5129.657	74.925	4.34072
-53.641	5129.657	76.078	3.63204
-53.641	5129.657	77.230	3.61042
-53.641	5129.657	78.383	3.45153
-53.641	5129.657	79.536	3.35414
-53.641	5129.657	80.689	3.31294
-53.641	5129.657	81.841	3.52947
-53.641	5129.657	82.994	3.82370
-53.641	5129.657	84.147	3.84871
-53.641	5129.657	85.300	3.85547
-53.641	5133.609	77.490	8.19668
-53.641	5133.609	78.586	4.56827

-53.641	5133.609	79.682	3.77726
-53.641	5133.609	80.779	-106.00000
-53.641	5133.609	81.875	3.50170
-53.641	5133.609	82.971	3.41326
-53.641	5133.609	84.068	3.37555
-53.641	5133.609	85.164	3.35363
-53.641	5133.609	86.260	3.76344
-53.641	5133.609	87.356	3.90070
-53.641	5133.609	88.453	3.92466
-53.641	5137.561	81.211	8.76937
-53.641	5137.561	82.256	4.91676
-53.641	5137.561	83.302	3.93645
-53.641	5137.561	84.347	-106.00000
-53.641	5137.561	85.393	3.55187
-53.641	5137.561	86.438	3.47234
-53.641	5137.561	87.484	3.43861
-53.641	5137.561	88.530	3.41867
-53.641	5137.561	89.575	3.47071
-53.641	5137.561	90.621	3.92012
-53.641	5137.561	91.666	3.98710
-53.641	5141.513	84.934	9.48628
-53.641	5141.513	85.934	5.31826
-53.641	5141.513	86.934	4.11133
-53.641	5141.513	87.934	3.60482
-53.641	5141.513	88.934	3.57430
-53.641	5141.513	89.934	3.53081
-53.641	5141.513	90.934	3.50160
-53.641	5141.513	91.934	3.48418
-53.641	5141.513	92.934	3.46679
-53.641	5141.513	93.934	3.82516
-53.641	5141.513	94.934	4.03798
-53.641	5145.464	88.661	10.39250
-53.641	5145.464	89.620	5.79547
-53.641	5145.464	90.579	4.30417
-53.641	5145.464	91.538	3.72316
-53.641	5145.464	92.497	3.48228
-53.641	5145.464	93.456	3.58809
-53.641	5145.464	94.415	3.56408
-53.641	5145.464	95.374	3.54978
-53.641	5145.464	96.333	3.53377
-53.641	5145.464	97.292	3.52431
-53.641	5145.464	98.251	4.02639
-53.641	5149.416	92.393	11.49150
-53.641	5149.416	93.315	6.22027
-53.641	5149.416	94.237	4.51462
-53.641	5149.416	95.159	3.85111
-53.641	5149.416	96.081	3.48987
-53.641	5149.416	97.003	3.64361
-53.641	5149.416	97.925	3.62562
-53.641	5149.416	98.847	3.61503
-53.641	5149.416	99.769	3.60093
-53.641	5149.416	100.691	3.59209
-53.641	5149.416	101.613	3.87868

Raw Data for Minimum Circle Results

APPENDIX II

FIGURE 1 A-A' DATA

Center_x	Center_y	Radius	Factor_of_Safety
-132.677	5070.380	52.714	-1000.00000
-132.677	5074.332	56.419	-1000.00000
-132.677	5078.284	60.155	-1000.00000
-132.677	5082.235	63.918	-1000.00000
-132.677	5086.187	67.701	-1000.00000
-132.677	5090.139	71.503	-1000.00000
-132.677	5094.091	75.321	-1000.00000
-132.677	5098.043	79.151	-1000.00000
-132.677	5101.995	82.993	-1000.00000
-132.677	5105.946	86.824	9.10781
-132.677	5109.898	90.632	2.46859
-132.677	5113.850	94.446	1.73367
-132.677	5117.802	98.266	1.46502
-132.677	5121.754	102.093	1.35556
-132.677	5125.705	105.925	1.31097
-132.677	5129.657	109.766	1.29832
-132.677	5133.609	113.614	1.30365
-132.677	5137.561	117.469	1.32458
-132.677	5141.513	121.330	1.34912
-132.677	5145.464	125.197	1.37490
-132.677	5149.416	129.069	1.40128
-128.725	5070.380	51.424	-1000.00000
-128.725	5074.332	55.215	-1000.00000
-128.725	5078.284	59.028	-1000.00000
-128.725	5082.235	62.858	-1000.00000
-128.725	5086.187	66.702	-1000.00000
-128.725	5090.139	70.557	-1000.00000
-128.725	5094.091	74.423	-1000.00000
-128.725	5098.043	78.285	15.35530
-128.725	5101.995	82.113	2.64172
-128.725	5105.946	85.946	1.66993
-128.725	5109.898	89.785	1.40367
-128.725	5113.850	93.629	1.30561
-128.725	5117.802	97.476	1.27171
-128.725	5121.754	101.329	1.26943
-128.725	5125.705	105.188	1.28110
-128.725	5129.657	109.055	1.30790
-128.725	5133.609	112.058	1.33723
-128.725	5137.561	115.862	1.36288
-128.725	5141.513	119.675	1.38888
-128.725	5145.464	123.497	1.41487
-128.725	5149.416	127.326	1.44063
-124.773	5070.380	50.411	-1000.00000
-124.773	5074.332	54.273	-1000.00000
-124.773	5078.284	58.148	-1000.00000
-124.773	5082.235	62.032	-1000.00000
-124.773	5086.187	65.924	-1000.00000
-124.773	5090.139	69.815	16.50060
-124.773	5094.091	73.664	2.77241
-124.773	5098.043	77.517	1.60573
-124.773	5101.995	81.375	1.34487
-124.773	5105.946	85.236	1.25972
-124.773	5109.898	89.099	1.23819

APPENDIX II

FIGURE 1 A-A' DATA

-124.773	5113.850	92.965	1.24386
-124.773	5117.802	96.836	1.26470
-124.773	5121.754	99.903	1.28996
-124.773	5125.705	103.699	1.32049
-124.773	5129.657	107.507	1.35112
-124.773	5133.609	110.278	1.37938
-124.773	5137.561	114.036	1.40554
-124.773	5141.513	117.807	1.43116
-124.773	5145.464	121.590	1.45615
-124.773	5149.416	125.383	1.48043
-120.821	5070.380	49.693	-1000.00000
-120.821	5074.332	53.607	-1000.00000
-120.821	5078.284	57.526	-1000.00000
-120.821	5082.235	61.441	11.77130
-120.821	5086.187	65.311	2.58814
-120.821	5090.139	69.184	1.54349
-120.821	5094.091	73.059	1.29181
-120.821	5098.043	76.936	1.22180
-120.821	5101.995	80.815	1.21022
-120.821	5105.946	84.695	1.22519
-120.821	5109.898	87.844	1.24850
-120.821	5113.850	91.628	1.27613
-120.821	5117.802	94.501	1.30212
-120.821	5121.754	98.225	1.33388
-120.821	5125.705	101.966	1.36490
-120.821	5129.657	105.723	1.39504
-120.821	5133.609	109.493	1.42421
-120.821	5137.561	113.277	1.45238
-120.821	5141.513	117.071	1.47952
-120.821	5145.464	119.471	1.50515
-120.821	5149.416	123.235	1.52805
-116.870	5070.380	49.282	-1000.00000
-116.870	5074.332	53.210	5.32369
-116.870	5078.284	57.098	2.19465
-116.870	5082.235	60.986	1.48751
-116.870	5086.187	64.875	1.24952
-116.870	5090.139	68.765	1.19317
-116.870	5094.091	72.655	1.19246
-116.870	5098.043	75.894	1.21017
-116.870	5101.995	78.925	1.23230
-116.870	5105.946	82.609	1.25775
-116.870	5109.898	85.341	1.28684
-116.870	5113.850	88.963	1.31610
-116.870	5117.802	92.611	1.34929
-116.870	5121.754	96.284	1.38116
-116.870	5125.705	99.979	1.41167
-116.870	5129.657	103.693	1.44082
-116.870	5133.609	107.425	1.46864
-116.870	5137.561	111.173	1.49514
-116.870	5141.513	114.935	1.52036
-116.870	5145.464	118.710	1.54434
-116.870	5149.416	122.497	1.56713
-112.918	5070.380	49.092	1.65997
-112.918	5074.332	52.986	1.39613

APPENDIX II

FIGURE 1 A-A' DATA

-112.918	5078.284	56.880	1.22584
-112.918	5082.235	60.773	1.18140
-112.918	5086.187	64.081	1.18473
-112.918	5090.139	67.182	1.19743
-112.918	5094.091	70.073	1.21663
-112.918	5098.043	73.655	1.23981
-112.918	5101.995	77.236	1.26855
-112.918	5105.946	80.830	1.30098
-112.918	5109.898	83.263	1.33527
-112.918	5113.850	88.111	1.37200
-112.918	5117.802	91.792	1.40523
-112.918	5121.754	95.495	1.43691
-112.918	5125.705	99.218	1.46706
-112.918	5129.657	102.959	1.49570
-112.918	5133.609	106.716	1.52289
-112.918	5137.561	110.488	1.54867
-112.918	5141.513	114.272	1.57309
-112.918	5145.464	118.069	1.59623
-112.918	5149.416	121.876	1.61814
-108.966	5070.380	49.163	1.22685
-108.966	5074.332	53.041	1.18879
-108.966	5078.284	55.630	1.18703
-108.966	5082.235	58.557	1.19036
-108.966	5086.187	61.279	1.20340
-108.966	5090.139	64.750	1.22269
-108.966	5094.091	68.222	1.24893
-108.966	5098.043	71.695	1.27930
-108.966	5101.995	75.186	1.31257
-108.966	5105.946	78.722	1.34996
-108.966	5109.898	82.297	1.38606
-108.966	5113.850	85.906	1.42069
-108.966	5117.802	89.546	1.45373
-108.966	5121.754	93.214	1.48513
-108.966	5125.705	96.905	1.51489
-108.966	5129.657	100.617	1.54300
-108.966	5133.609	104.348	1.56952
-108.966	5137.561	108.096	1.59447
-108.966	5141.513	111.860	1.61794
-108.966	5145.464	115.637	1.63995
-108.966	5149.416	119.426	1.66059
-105.014	5070.380	47.311	1.20979
-105.014	5074.332	50.016	1.19588
-105.014	5078.284	52.526	1.19736
-105.014	5082.235	55.878	1.20861
-105.014	5086.187	59.232	1.23026
-105.014	5090.139	62.589	1.25848
-105.014	5094.091	65.948	1.29037
-105.014	5098.043	69.332	1.32804
-105.014	5101.995	72.775	1.37240
-105.014	5105.946	76.271	1.41717
-105.014	5109.898	81.487	1.45383
-105.014	5113.850	85.131	1.48521
-105.014	5117.802	88.804	1.51504
-105.014	5121.754	92.501	1.54329

APPENDIX II

FIGURE 1 A-A' DATA

-105.014	5125.705	96.221	1.56997
-105.014	5129.657	99.960	1.59511
-105.014	5133.609	103.717	1.61874
-105.014	5137.561	107.488	1.64091
-105.014	5141.513	111.274	1.66169
-105.014	5145.464	115.072	1.68116
-105.014	5149.416	118.880	1.69740
-101.062	5070.380	43.786	1.21047
-101.062	5074.332	47.008	1.20375
-101.062	5078.284	50.236	1.21557
-101.062	5082.235	53.469	1.23971
-101.062	5086.187	56.706	1.27427
-101.062	5090.139	59.947	1.31917
-101.062	5094.091	64.863	1.35687
-101.062	5098.043	68.298	1.39495
-101.062	5101.995	71.791	1.43378
-101.062	5105.946	75.333	1.47285
-101.062	5109.898	78.918	1.51183
-101.062	5113.850	82.539	1.55048
-101.062	5117.802	86.193	1.58862
-101.062	5121.754	91.938	1.61546
-101.062	5125.705	95.682	1.63844
-101.062	5129.657	99.444	1.66002
-101.062	5133.609	103.222	1.68023
-101.062	5137.561	107.014	1.69889
-101.062	5141.513	110.818	1.71491
-101.062	5145.464	114.633	1.73273
-101.062	5149.416	118.458	1.75238
-97.111	5070.380	41.180	1.21541
-97.111	5074.332	44.283	1.23018
-97.111	5078.284	48.989	1.26231
-97.111	5082.235	52.197	1.28931
-97.111	5086.187	55.413	1.32639
-97.111	5090.139	58.669	1.37846
-97.111	5094.091	63.956	1.44406
-97.111	5098.043	67.441	1.47545
-97.111	5101.995	70.980	1.50736
-97.111	5105.946	74.565	1.53943
-97.111	5109.898	78.190	1.57143
-97.111	5113.850	81.848	1.60322
-97.111	5117.802	85.535	1.63472
-97.111	5121.754	89.248	1.66594
-97.111	5125.705	92.982	1.69695
-97.111	5129.657	96.735	1.72786
-97.111	5133.609	102.867	1.75432
-97.111	5137.561	106.674	1.77266
-97.111	5141.513	110.493	1.79412
-97.111	5145.464	114.322	1.81416
-97.111	5149.416	118.159	1.83272
-93.159	5070.380	39.726	1.23840
-93.159	5074.332	42.799	1.26406
-93.159	5078.284	45.884	1.31780
-93.159	5082.235	51.020	1.37285
-93.159	5086.187	54.248	1.40870

-93.159	5090.139	57.576	1.45841
-93.159	5094.091	60.988	1.52602
-93.159	5098.043	66.767	1.57062
-93.159	5101.995	70.349	1.59426
-93.159	5105.946	73.973	1.61799
-93.159	5109.898	77.633	1.64166
-93.159	5113.850	81.323	1.66526
-93.159	5117.802	85.039	1.68881
-93.159	5121.754	88.779	1.71240
-93.159	5125.705	92.537	1.73620
-93.159	5129.657	96.313	1.75899
-93.159	5133.609	100.103	1.78423
-93.159	5137.561	103.907	1.81089
-93.159	5141.513	107.722	1.83783
-93.159	5145.464	113.425	1.86995
-93.159	5149.416	116.541	1.85611
-89.207	5070.380	38.352	1.30214
-89.207	5074.332	41.392	1.33302
-89.207	5078.284	44.448	1.41767
-89.207	5082.235	49.977	1.47432
-89.207	5086.187	53.283	1.50145
-89.207	5090.139	56.684	1.54670
-89.207	5094.091	60.161	1.61140
-89.207	5098.043	63.700	1.66361
-89.207	5101.995	69.905	1.69769
-89.207	5105.946	73.562	1.71186
-89.207	5109.898	77.252	1.72599
-89.207	5113.850	80.969	1.74010
-89.207	5117.802	84.710	1.75430
-89.207	5121.754	88.470	1.76738
-89.207	5125.705	92.248	1.78441
-89.207	5129.657	96.041	1.80597
-89.207	5133.609	99.361	1.85504
-89.207	5137.561	105.033	1.90128
-89.207	5141.513	108.109	1.87497
-89.207	5145.464	111.234	1.91306
-89.207	5149.416	116.629	1.95173
-85.255	5070.380	37.051	1.39319
-85.255	5074.332	40.056	1.45968
-85.255	5078.284	43.140	1.54077
-85.255	5082.235	49.149	1.58734
-85.255	5086.187	52.535	1.60068
-85.255	5090.139	56.006	1.64985
-85.255	5094.091	59.545	1.69802
-85.255	5098.043	63.138	1.74285
-85.255	5101.995	66.777	1.78417
-85.255	5105.946	70.452	1.82197
-85.255	5109.898	77.054	1.83043
-85.255	5113.850	80.792	1.83491
-85.255	5117.802	84.550	1.84321
-85.255	5121.754	87.985	1.83423
-85.255	5125.705	91.025	1.87956
-85.255	5129.657	94.121	1.93625
-85.255	5133.609	99.743	1.89616

APPENDIX II

FIGURE 1 A-A' DATA

-85.255	5137.561	102.826	1.94231
-85.255	5141.513	108.214	1.97899
-85.255	5145.464	111.294	1.96203
-85.255	5149.416	114.422	2.01099
-81.303	5070.380	35.816	1.53378
-81.303	5074.332	38.856	1.60792
-81.303	5078.284	42.076	1.68504
-81.303	5082.235	48.563	1.71227
-81.303	5086.187	52.025	1.70152
-81.303	5090.139	55.561	1.74948
-81.303	5094.091	59.154	1.78843
-81.303	5098.043	62.794	1.82424
-81.303	5101.995	66.471	1.85693
-81.303	5105.946	70.180	1.88657
-81.303	5109.898	73.781	1.91965
-81.303	5113.850	79.797	1.86676
-81.303	5117.802	82.780	1.91191
-81.303	5121.754	85.826	1.96834
-81.303	5125.705	91.458	1.92811
-81.303	5129.657	94.492	1.97814
-81.303	5133.609	99.869	2.00962
-81.303	5137.561	102.901	2.00159
-81.303	5141.513	105.988	2.05200
-81.303	5145.464	111.101	2.05270
-81.303	5149.416	114.192	2.10263
-77.351	5070.380	34.730	1.71558
-77.351	5074.332	37.938	1.78095
-77.351	5078.284	41.298	1.84583
-77.351	5082.235	48.244	1.85868
-77.351	5086.187	51.775	1.82301
-77.351	5090.139	55.366	1.85326
-77.351	5094.091	59.004	1.88119
-77.351	5098.043	62.679	1.90677
-77.351	5101.995	65.668	1.96077
-77.351	5105.946	71.737	1.90551
-77.351	5109.898	74.653	1.95590
-77.351	5113.850	77.638	2.01073
-77.351	5117.802	83.279	1.97373
-77.351	5121.754	86.252	2.02307
-77.351	5125.705	91.614	2.03994
-77.351	5129.657	94.588	2.04967
-77.351	5133.609	97.623	2.10103
-77.351	5137.561	102.701	2.10546
-77.351	5141.513	105.745	2.15702
-77.351	5145.464	110.635	2.17183
-77.351	5149.416	113.694	2.22370
-73.400	5070.380	33.987	1.93004
-73.400	5074.332	37.366	1.97426
-73.400	5078.284	40.855	2.01696
-73.400	5082.235	44.422	2.05651
-73.400	5086.187	51.808	1.94313
-73.400	5090.139	54.853	1.97720
-73.400	5094.091	57.718	2.02510
-73.400	5098.043	63.848	1.97230

-73.400	5101.995	66.680	2.01774
-73.400	5105.946	69.590	2.06868
-73.400	5109.898	75.236	2.03393
-73.400	5113.850	78.134	2.08102
-73.400	5117.802	83.473	2.06213
-73.400	5121.754	86.376	2.10932
-73.400	5125.705	91.460	2.12010
-73.400	5129.657	94.381	2.16914
-73.400	5133.609	99.254	2.18977
-73.400	5137.561	102.201	2.24029
-73.400	5141.513	106.898	2.27321
-73.400	5145.464	109.876	2.32614
-73.400	5149.416	112.913	2.38243
-69.448	5070.380	33.691	2.17011
-69.448	5074.332	37.211	2.17938
-69.448	5078.284	40.474	2.20645
-69.448	5082.235	47.220	2.09755
-69.448	5086.187	49.991	2.12924
-69.448	5090.139	52.850	2.16981
-69.448	5094.091	58.917	2.10828
-69.448	5098.043	61.733	2.15122
-69.448	5101.995	67.377	2.11628
-69.448	5105.946	70.181	2.15833
-69.448	5109.898	75.483	2.14035
-69.448	5113.850	78.298	2.18531
-69.448	5117.802	83.323	2.19904
-69.448	5121.754	86.164	2.24762
-69.448	5125.705	90.965	2.27151
-69.448	5129.657	93.842	2.32300
-69.448	5133.609	98.460	2.35883
-69.448	5137.561	101.378	2.41391
-69.448	5141.513	104.363	2.47312
-69.448	5145.464	107.409	2.53662
-69.448	5149.416	110.513	2.60479
-65.496	5070.380	33.020	2.46005
-65.496	5074.332	39.939	2.31042
-65.496	5078.284	42.595	2.30787
-65.496	5082.235	45.344	2.32094
-65.496	5086.187	51.453	2.24769
-65.496	5090.139	54.146	2.27469
-65.496	5094.091	59.773	2.23383
-65.496	5098.043	62.454	2.26592
-65.496	5101.995	67.699	2.24577
-65.496	5105.946	70.400	2.28542
-65.496	5109.898	75.345	2.30073
-65.496	5113.850	78.084	2.34694
-65.496	5117.802	82.791	2.37375
-65.496	5121.754	87.337	2.41168
-65.496	5125.705	90.098	2.46326
-65.496	5129.657	92.943	2.51994
-65.496	5133.609	95.865	2.58184
-65.496	5137.561	98.848	2.64952
-65.496	5141.513	101.895	2.72341
-65.496	5145.464	105.001	2.80467

APPENDIX II

FIGURE 1 A-A' DATA

-65.496	5149.416	108.161	2.89554
-61.544	5070.380	35.699	2.64119
-61.544	5074.332	38.286	2.59253
-61.544	5078.284	40.972	2.57187
-61.544	5082.235	46.936	2.47161
-61.544	5086.187	49.569	2.48156
-61.544	5090.139	55.033	2.42365
-61.544	5094.091	57.663	2.44798
-61.544	5098.043	62.740	2.42301
-61.544	5101.995	67.573	2.43648
-61.544	5105.946	70.182	2.47691
-61.544	5109.898	74.763	2.50553
-61.544	5113.850	79.169	2.54310
-61.544	5117.802	81.815	2.59385
-61.544	5121.754	84.559	2.65125
-61.544	5125.705	87.394	2.71546
-61.544	5129.657	90.310	2.78696
-61.544	5133.609	93.301	2.86696
-61.544	5137.561	96.360	2.95774
-61.544	5141.513	93.511	3.06424
-61.544	5145.464	96.958	3.13634
-61.544	5149.416	100.433	3.21022
-57.592	5070.380	34.092	3.00994
-57.592	5074.332	40.067	2.81610
-57.592	5078.284	42.503	2.77109
-57.592	5082.235	47.907	2.67278
-57.592	5086.187	50.327	2.66662
-57.592	5090.139	55.241	2.62371
-57.592	5094.091	57.668	2.64673
-57.592	5098.043	62.316	2.65577
-57.592	5101.995	66.790	2.68108
-57.592	5105.946	71.122	2.71480
-57.592	5109.898	73.633	2.76158
-57.592	5113.850	76.263	2.81717
-57.592	5117.802	79.001	2.88171
-57.592	5121.754	81.835	2.95607
-57.592	5125.705	84.756	3.04234
-57.592	5129.657	81.421	3.12016
-57.592	5133.609	84.813	3.18703
-57.592	5137.561	89.384	3.17936
-57.592	5141.513	92.789	3.24948
-57.592	5145.464	97.270	3.27133
-57.592	5149.416	100.694	3.34248
-53.641	5070.380	35.555	3.31947
-53.641	5074.332	37.786	3.20295
-53.641	5078.284	42.989	3.03447
-53.641	5082.235	47.869	2.93390
-53.641	5086.187	50.076	2.92263
-53.641	5090.139	54.657	2.91080
-53.641	5094.091	59.046	2.92421
-53.641	5098.043	63.280	2.94745
-53.641	5101.995	65.618	2.98394
-53.641	5105.946	68.101	3.03254
-53.641	5109.898	70.714	3.09332

-53.641	5113.850	73.443	3.17116
-53.641	5117.802	69.459	3.18540
-53.641	5121.754	72.776	3.23961
-53.641	5125.705	77.352	3.25122
-53.641	5129.657	80.689	3.31294
-53.641	5133.609	85.164	3.35363
-53.641	5137.561	88.530	3.41867
-53.641	5141.513	92.934	3.46679
-53.641	5145.464	92.497	3.48228
-53.641	5149.416	96.081	3.48987

Analysis Method: bishop simplified

Center_x	Center_y	Radius	Factor_of_Safety
-126.017	5065.108	44.841	-1000.00000
-126.017	5065.108	44.841	-1000.00000
-126.017	5065.108	44.841	-1000.00000
-126.017	5065.108	44.841	-1000.00000
-126.017	5065.108	44.841	-1000.00000
-126.017	5065.108	44.841	-1000.00000
-126.017	5065.108	44.841	-1000.00000
-126.017	5065.108	44.841	-1000.00000
-126.017	5065.108	44.841	-1000.00000
-126.017	5065.108	44.841	-1000.00000
-126.017	5068.590	48.241	-1000.00000
-126.017	5068.590	48.241	-1000.00000
-126.017	5068.590	48.241	-1000.00000
-126.017	5068.590	48.241	-1000.00000
-126.017	5068.590	48.241	-1000.00000
-126.017	5068.590	48.241	-1000.00000
-126.017	5068.590	48.241	-1000.00000
-126.017	5068.590	48.241	-1000.00000
-126.017	5068.590	48.241	-1000.00000
-126.017	5068.590	48.241	-1000.00000
-126.017	5072.071	51.652	-1000.00000
-126.017	5072.071	51.652	-1000.00000
-126.017	5072.071	51.652	-1000.00000
-126.017	5072.071	51.652	-1000.00000
-126.017	5072.071	51.652	-1000.00000
-126.017	5072.071	51.652	-1000.00000
-126.017	5072.071	51.652	-1000.00000
-126.017	5072.071	51.652	-1000.00000
-126.017	5072.071	51.652	-1000.00000
-126.017	5072.071	51.652	-1000.00000
-126.017	5072.071	51.652	-1000.00000
-126.017	5075.553	55.072	-1000.00000
-126.017	5075.553	55.072	-1000.00000
-126.017	5075.553	55.072	-1000.00000
-126.017	5075.553	55.072	-1000.00000
-126.017	5075.553	55.072	-1000.00000
-126.017	5075.553	55.072	-1000.00000
-126.017	5075.553	55.072	-1000.00000
-126.017	5075.553	55.072	-1000.00000
-126.017	5075.553	55.072	-1000.00000
-126.017	5075.553	55.072	-1000.00000
-126.017	5075.553	55.072	-1000.00000
-126.017	5079.035	58.499	-1000.00000
-126.017	5079.035	58.499	-1000.00000

FIGURE 2 B-B' DATA

-126.017	5096.443	75.708	-1000.00000
-126.017	5096.443	75.708	-1000.00000
-126.017	5096.443	75.708	-1000.00000
-126.017	5096.443	75.708	-1000.00000
-126.017	5096.443	75.708	-1000.00000
-126.017	5096.443	75.708	-1000.00000
-126.017	5096.443	75.708	-1000.00000
-126.017	5096.443	75.708	-1000.00000
-126.017	5096.443	75.708	-1000.00000
-126.017	5096.443	75.708	-1000.00000
-126.017	5099.924	79.161	-1000.00000
-126.017	5099.924	79.161	-1000.00000
-126.017	5099.924	79.161	-1000.00000
-126.017	5099.924	79.161	-1000.00000
-126.017	5099.924	79.161	-1000.00000
-126.017	5099.924	79.161	-1000.00000
-126.017	5099.924	79.161	-1000.00000
-126.017	5099.924	79.161	-1000.00000
-126.017	5099.924	79.161	-1000.00000
-126.017	5099.924	79.161	-1000.00000
-126.017	5099.924	79.161	-1000.00000
-126.017	5099.924	79.161	-1000.00000
-126.017	5099.924	79.161	-1000.00000
-126.017	5099.924	79.161	-1000.00000
-126.017	5103.406	82.615	-1000.00000
-126.017	5103.406	82.615	-1000.00000
-126.017	5103.406	82.615	-1000.00000
-126.017	5103.406	82.615	-1000.00000
-126.017	5103.406	82.615	-1000.00000
-126.017	5103.406	82.615	-1000.00000
-126.017	5103.406	82.615	-1000.00000
-126.017	5103.406	82.615	-1000.00000
-126.017	5103.406	82.615	-1000.00000
-126.017	5103.406	82.615	-1000.00000
-126.017	5103.406	82.615	-1000.00000
-126.017	5103.406	82.615	-1000.00000
-126.017	5106.887	85.298	135.15900
-126.017	5106.887	85.371	42.81460
-126.017	5106.887	85.445	23.68830
-126.017	5106.887	85.518	16.17330
-126.017	5106.887	85.591	12.23240
-126.017	5106.887	85.665	9.79469
-126.017	5106.887	85.738	8.06059
-126.017	5106.887	85.811	6.84458
-126.017	5106.887	85.885	5.94922
-126.017	5106.887	85.958	5.26518
-126.017	5106.887	86.031	4.72712
-126.017	5110.369	87.810	54.63460
-126.017	5110.369	87.973	17.63840
-126.017	5110.369	88.136	9.61685
-126.017	5110.369	88.299	6.55418
-126.017	5110.369	88.462	4.98432
-126.017	5110.369	88.625	4.11758
-126.017	5110.369	88.788	3.52989
-126.017	5110.369	88.951	3.10620
-126.017	5110.369	89.114	2.74646
-126.017	5110.369	89.277	2.46458
-126.017	5110.369	89.440	2.24925

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FIGURE 2 B-B' DATA

file:///J:/Cad%20Projects/GOOSE%20HAVEN%20RESERVOIR/dwg/Slope%20Stability/Dec%202016/Slide/th-21F.txt[1/9/2017 12:14:07 PM]

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-119.054	5106.887	83.875	1.39037
-119.054	5106.887	84.344	1.28349
-119.054	5106.887	84.813	1.21096
-119.054	5106.887	85.281	1.15925
-119.054	5110.369	83.107	11.60140
-119.054	5110.369	83.667	4.58769
-119.054	5110.369	84.227	2.79836
-119.054	5110.369	84.788	2.11927
-119.054	5110.369	85.348	1.76857
-119.054	5110.369	85.908	1.55808
-119.054	5110.369	86.469	1.42127
-119.054	5110.369	87.029	1.31186
-119.054	5110.369	87.589	1.22476
-119.054	5110.369	88.150	1.16616
-119.054	5110.369	88.710	1.12775
-119.054	5113.851	85.619	9.28461
-119.054	5113.851	86.271	4.07641
-119.054	5113.851	86.923	2.57937
-119.054	5113.851	87.575	1.98671
-119.054	5113.851	88.227	1.67714
-119.054	5113.851	88.879	1.49257
-119.054	5113.851	89.531	1.37042
-119.054	5113.851	90.183	1.27273
-119.054	5113.851	90.835	1.19668
-119.054	5113.851	91.487	1.14851
-119.054	5113.851	92.139	1.11943
-119.054	5117.332	88.132	6.87535
-119.054	5117.332	88.876	3.67597
-119.054	5117.332	89.619	2.48019
-119.054	5117.332	90.363	1.92091
-119.054	5117.332	91.106	1.63021
-119.054	5117.332	91.850	1.45806
-119.054	5117.332	92.593	1.34535
-119.054	5117.332	93.337	1.25684
-119.054	5117.332	94.081	1.18671
-119.054	5117.332	94.824	1.14602
-119.054	5117.332	95.568	1.12409
-119.054	5120.814	90.645	6.06696
-119.054	5120.814	91.480	3.40116

-119.054	5120.814	92.315	2.45280
-119.054	5120.814	93.150	1.89561
-119.054	5120.814	93.986	1.61048
-119.054	5120.814	94.821	1.44376
-119.054	5120.814	95.656	1.33618
-119.054	5120.814	96.491	1.25314
-119.054	5120.814	97.326	1.18771
-119.054	5120.814	98.161	1.15270
-119.054	5120.814	98.997	1.13664
-119.054	5124.295	93.158	5.73273
-119.054	5124.295	94.084	3.21598
-119.054	5124.295	95.011	2.47626
-119.054	5124.295	95.938	1.89804
-119.054	5124.295	96.865	1.60902
-119.054	5124.295	97.792	1.44295
-119.054	5124.295	98.719	1.33749
-119.054	5124.295	99.645	1.25838
-119.054	5124.295	100.572	1.19577
-119.054	5124.295	101.499	1.16528
-119.054	5124.295	102.426	1.15426
-119.054	5127.777	95.694	5.87059
-119.054	5127.777	96.710	3.06097
-119.054	5127.777	97.727	2.49045
-119.054	5127.777	98.743	1.91470
-119.054	5127.777	99.759	1.61900
-119.054	5127.777	100.775	1.45006
-119.054	5127.777	101.791	1.34528
-119.054	5127.777	102.808	1.26918
-119.054	5127.777	103.824	1.20837
-119.054	5127.777	104.840	1.18173
-119.054	5127.777	105.856	1.17527
-119.054	5131.259	98.288	6.17285
-119.054	5131.259	99.388	2.90742
-119.054	5131.259	100.489	2.43849
-119.054	5131.259	101.589	1.93348
-119.054	5131.259	102.689	1.63109
-119.054	5131.259	103.789	1.46094
-119.054	5131.259	104.889	1.35670
-119.054	5131.259	105.989	1.28313
-119.054	5131.259	107.089	1.22389
-119.054	5131.259	108.190	1.20085
-119.054	5131.259	109.290	1.19863
-119.054	5134.740	100.936	6.39299
-119.054	5134.740	102.115	2.77968
-119.054	5134.740	103.294	2.39519
-119.054	5134.740	104.473	1.95428
-119.054	5134.740	105.652	1.64607
-119.054	5134.740	106.831	1.47479
-119.054	5134.740	108.010	1.37092
-119.054	5134.740	109.189	1.29944
-119.054	5134.740	110.368	1.24156
-119.054	5134.740	111.547	1.22190
-119.054	5134.740	112.726	1.22365
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-115.573	5065.108	43.708 -102.00000
-115.573	5065.108	43.709 -102.00000
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-115.573	5065.108	43.710 -108.00000
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-115.573	5068.590	47.190 -102.00000
-115.573	5068.590	47.190 -106.00000
-115.573	5068.590	47.191 -106.00000
-115.573	5068.590	47.191 -109.00000
-115.573	5068.590	47.191 -108.00000
-115.573	5068.590	47.191 -108.00000
-115.573	5068.590	47.191 -108.00000
-115.573	5068.590	47.191 -108.00000
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-115.573	5072.071	50.672 -102.00000
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-115.573	5075.553	54.153 -106.00000
-115.573	5075.553	54.154 -106.00000
-115.573	5075.553	54.154 -109.00000
-115.573	5075.553	54.154 -108.00000
-115.573	5075.553	54.154 -108.00000
-115.573	5075.553	54.154 -108.00000
-115.573	5075.553	54.154 -108.00000
-115.573	5075.553	54.155 -108.00000
-115.573	5079.035	57.635 -102.00000
-115.573	5079.035	57.635 -102.00000
-115.573	5079.035	57.635 -102.00000
-115.573	5079.035	57.635 -106.00000
-115.573	5079.035	57.635 -106.00000
-115.573	5079.035	57.635 -109.00000
-115.573	5079.035	57.635 -109.00000
-115.573	5079.035	57.636 -108.00000
-115.573	5079.035	57.636 -108.00000
-115.573	5079.035	57.636 -108.00000
-115.573	5079.035	57.636 -108.00000

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-115.573	5082.516	60.706	26.97170
-115.573	5082.516	60.749	16.65330
-115.573	5082.516	60.792	12.13910
-115.573	5082.516	60.835	9.60694
-115.573	5082.516	60.878	7.98646
-115.573	5082.516	60.921	6.86047
-115.573	5082.516	60.964	6.03264
-115.573	5082.516	61.007	5.39842
-115.573	5082.516	61.051	5.09176
-115.573	5082.516	61.094	4.83262
-115.573	5085.998	63.175	24.20130
-115.573	5085.998	63.310	10.42790
-115.573	5085.998	63.445	7.47054
-115.573	5085.998	63.580	5.86896
-115.573	5085.998	63.715	4.87263
-115.573	5085.998	63.850	4.19339
-115.573	5085.998	63.985	3.70056
-115.573	5085.998	64.120	3.31343
-115.573	5085.998	64.254	2.92011
-115.573	5085.998	64.389	2.62170
-115.573	5085.998	64.524	2.38885
-115.573	5089.479	65.688	22.46580
-115.573	5089.479	65.915	9.22649
-115.573	5089.479	66.142	5.98371
-115.573	5089.479	66.368	4.36580
-115.573	5089.479	66.595	3.47542
-115.573	5089.479	66.821	2.91967
-115.573	5089.479	67.048	2.49346
-115.573	5089.479	67.275	2.15375
-115.573	5089.479	67.501	1.91186
-115.573	5089.479	67.728	1.73313
-115.573	5089.479	67.955	1.59718
-115.573	5092.961	68.201	22.11640
-115.573	5092.961	68.519	7.59663
-115.573	5092.961	68.838	4.59782
-115.573	5092.961	69.156	3.27461
-115.573	5092.961	69.475	2.58541
-115.573	5092.961	69.793	2.17033
-115.573	5092.961	70.112	1.87956
-115.573	5092.961	70.430	1.67297
-115.573	5092.961	70.748	1.52554
-115.573	5092.961	71.067	1.40778
-115.573	5092.961	71.385	1.31221
-115.573	5096.443	70.714	19.55060
-115.573	5096.443	71.124	6.07873
-115.573	5096.443	71.534	3.56713
-115.573	5096.443	71.944	2.61088
-115.573	5096.443	72.355	2.14211
-115.573	5096.443	72.765	1.83319
-115.573	5096.443	73.175	1.58436
-115.573	5096.443	73.585	1.41487
-115.573	5096.443	73.995	1.29974
-115.573	5096.443	74.406	1.22153

-115.573	5096.443	74.816	1.16484
-115.573	5099.924	73.227	16.54580
-115.573	5099.924	73.729	4.90711
-115.573	5099.924	74.231	3.04416
-115.573	5099.924	74.733	2.25206
-115.573	5099.924	75.235	1.82619
-115.573	5099.924	75.737	1.58329
-115.573	5099.924	76.239	1.40864
-115.573	5099.924	76.741	1.28251
-115.573	5099.924	77.242	1.20087
-115.573	5099.924	77.744	1.14521
-115.573	5099.924	78.246	1.10802
-115.573	5103.406	75.740	12.70400
-115.573	5103.406	76.333	4.34227
-115.573	5103.406	76.927	2.62014
-115.573	5103.406	77.521	1.97570
-115.573	5103.406	78.115	1.65323
-115.573	5103.406	78.708	1.46493
-115.573	5103.406	79.302	1.32422
-115.573	5103.406	79.896	1.22193
-115.573	5103.406	80.489	1.15619
-115.573	5103.406	81.083	1.11487
-115.573	5103.406	81.677	1.08961
-115.573	5106.887	78.252	9.82738
-115.573	5106.887	78.938	3.76225
-115.573	5106.887	79.623	2.37147
-115.573	5106.887	80.309	1.83906
-115.573	5106.887	80.994	1.56500
-115.573	5106.887	81.680	1.40316
-115.573	5106.887	82.365	1.28415
-115.573	5106.887	83.051	1.19384
-115.573	5106.887	83.737	1.13901
-115.573	5106.887	84.422	1.10725
-115.573	5106.887	85.108	1.09043
-115.573	5110.369	80.765	7.91526
-115.573	5110.369	81.543	3.47888
-115.573	5110.369	82.320	2.25476
-115.573	5110.369	83.097	1.77141
-115.573	5110.369	83.874	1.52260
-115.573	5110.369	84.652	1.37328
-115.573	5110.369	85.429	1.26857
-115.573	5110.369	86.206	1.18475
-115.573	5110.369	86.984	1.13708
-115.573	5110.369	87.761	1.11227
-115.573	5110.369	88.538	1.10200
-115.573	5113.851	83.278	6.15267
-115.573	5113.851	84.147	3.33177
-115.573	5113.851	85.016	2.21155
-115.573	5113.851	85.885	1.74401
-115.573	5113.851	86.754	1.50476
-115.573	5113.851	87.623	1.36264
-115.573	5113.851	88.492	1.26945
-115.573	5113.851	89.362	1.18715
-115.573	5113.851	90.231	1.14429

APPENDIX II

FIGURE 2 B-B' DATA

-115.573	5113.851	91.100	1.12489
-115.573	5113.851	91.969	1.12006
-115.573	5117.332	85.791	5.44496
-115.573	5117.332	86.752	3.13667
-115.573	5117.332	87.713	2.21700
-115.573	5117.332	88.673	1.74320
-115.573	5117.332	89.634	1.50440
-115.573	5117.332	90.595	1.36467
-115.573	5117.332	91.556	1.27818
-115.573	5117.332	92.517	1.19699
-115.573	5117.332	93.478	1.15734
-115.573	5117.332	94.438	1.14235
-115.573	5117.332	95.399	1.14228
-115.573	5120.814	88.304	5.22174
-115.573	5120.814	89.356	3.00600
-115.573	5120.814	90.409	2.25987
-115.573	5120.814	91.462	1.76192
-115.573	5120.814	92.514	1.51654
-115.573	5120.814	93.567	1.37558
-115.573	5120.814	94.619	1.28835
-115.573	5120.814	95.672	1.21194
-115.573	5120.814	96.725	1.17427
-115.573	5120.814	97.777	1.16301
-115.573	5120.814	98.830	1.16722
-115.573	5124.295	90.842	5.26029
-115.573	5124.295	91.984	2.89510
-115.573	5124.295	93.126	2.32137
-115.573	5124.295	94.268	1.79088
-115.573	5124.295	95.410	1.53572
-115.573	5124.295	96.552	1.39180
-115.573	5124.295	97.694	1.30404
-115.573	5124.295	98.836	1.23014
-115.573	5124.295	99.978	1.19377
-115.573	5124.295	101.120	1.18581
-115.573	5124.295	102.262	1.19403
-115.573	5127.777	93.440	5.56723
-115.573	5127.777	94.666	2.78009
-115.573	5127.777	95.891	2.32980
-115.573	5127.777	97.117	1.82076
-115.573	5127.777	98.343	1.55697
-115.573	5127.777	99.568	1.41038
-115.573	5127.777	100.794	1.32206
-115.573	5127.777	102.020	1.25020
-115.573	5127.777	103.245	1.21497
-115.573	5127.777	104.471	1.21017
-115.573	5127.777	105.697	1.22216
-115.573	5131.259	96.094	5.80557
-115.573	5131.259	97.398	2.66969
-115.573	5131.259	98.702	2.30440
-115.573	5131.259	100.007	1.85163
-115.573	5131.259	101.311	1.57997
-115.573	5131.259	102.615	1.43085
-115.573	5131.259	103.919	1.34190
-115.573	5131.259	105.223	1.27168

-115.573	5131.259	106.527	1.23744
-115.573	5131.259	107.831	1.23564
-115.573	5131.259	109.135	1.25122
-115.573	5134.740	98.800	6.00019
-115.573	5134.740	100.178	2.61372
-115.573	5134.740	101.555	2.28483
-115.573	5134.740	102.933	1.88351
-115.573	5134.740	104.310	1.60448
-115.573	5134.740	105.688	1.45289
-115.573	5134.740	107.065	1.36318
-115.573	5134.740	108.443	1.29423
-115.573	5134.740	109.820	1.26088
-115.573	5134.740	111.198	1.26195
-115.573	5134.740	112.576	1.28095
-112.091	5065.108	43.717	-108.00000
-112.091	5065.108	43.733	-108.00000
-112.091	5065.108	43.748	-108.00000
-112.091	5065.108	43.764	-108.00000
-112.091	5065.108	43.780	-108.00000
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-112.091	5065.108	43.842	-108.00000
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-112.091	5068.590	47.300	-108.00000
-112.091	5068.590	47.314	-108.00000
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-112.091	5072.071	50.747	-108.00000
-112.091	5072.071	50.760	-108.00000
-112.091	5072.071	50.774	-108.00000
-112.091	5072.071	50.787	-108.00000
-112.091	5072.071	50.801	183.65200
-112.091	5072.071	50.814	76.79880
-112.091	5075.553	53.305	34.58750
-112.091	5075.553	53.399	12.74230
-112.091	5075.553	53.492	7.99391
-112.091	5075.553	53.586	5.91697
-112.091	5075.553	53.680	4.61028
-112.091	5075.553	53.773	3.71395
-112.091	5075.553	53.867	3.12893

-112.091	5075.553	53.961	2.72095
-112.091	5075.553	54.054	2.43816
-112.091	5075.553	54.148	2.29972
-112.091	5075.553	54.242	2.18125
-112.091	5079.035	55.817	17.84030
-112.091	5079.035	56.002	6.76128
-112.091	5079.035	56.187	4.60571
-112.091	5079.035	56.372	3.82277
-112.091	5079.035	56.556	3.16236
-112.091	5079.035	56.741	2.70730
-112.091	5079.035	56.926	2.39195
-112.091	5079.035	57.110	2.16151
-112.091	5079.035	57.295	1.98658
-112.091	5079.035	57.480	1.84027
-112.091	5079.035	57.664	1.71419
-112.091	5082.516	58.330	12.14600
-112.091	5082.516	58.606	6.27389
-112.091	5082.516	58.881	4.34373
-112.091	5082.516	59.157	3.39363
-112.091	5082.516	59.433	2.71962
-112.091	5082.516	59.709	2.25727
-112.091	5082.516	59.985	1.95828
-112.091	5082.516	60.260	1.74987
-112.091	5082.516	60.536	1.58547
-112.091	5082.516	60.812	1.46495
-112.091	5082.516	61.088	1.37615
-112.091	5085.998	60.842	14.75240
-112.091	5085.998	61.209	6.02832
-112.091	5085.998	61.576	3.80524
-112.091	5085.998	61.943	2.84032
-112.091	5085.998	62.310	2.25130
-112.091	5085.998	62.677	1.85703
-112.091	5085.998	63.044	1.61168
-112.091	5085.998	63.411	1.44879
-112.091	5085.998	63.778	1.34625
-112.091	5085.998	64.145	1.27172
-112.091	5085.998	64.512	1.21747
-112.091	5089.479	63.355	15.35760
-112.091	5089.479	63.813	5.27194
-112.091	5089.479	64.271	3.20419
-112.091	5089.479	64.730	2.35278
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-112.091	5089.479	65.646	1.61898
-112.091	5089.479	66.104	1.43915
-112.091	5089.479	66.562	1.30428
-112.091	5089.479	67.021	1.21379
-112.091	5089.479	67.479	1.15207
-112.091	5089.479	67.937	1.11051
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-112.091	5092.961	67.516	2.07882
-112.091	5092.961	68.065	1.71924
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-105.128	5072.071	46.701	3.16626
-105.128	5072.071	47.238	2.16564
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-105.128	5072.071	48.310	1.49353
-105.128	5072.071	48.846	1.34784
-105.128	5072.071	49.382	1.25456
-105.128	5072.071	49.918	1.18891
-105.128	5072.071	50.454	1.14379
-105.128	5072.071	50.991	1.10843
-105.128	5072.071	51.527	1.08010
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-105.128	5075.553	54.267	1.08376
-105.128	5075.553	54.888	1.05926
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-105.128	5079.035	55.428	1.15139
-105.128	5079.035	56.136	1.10088
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-105.128	5079.035	57.551	1.05613
-105.128	5079.035	58.258	1.04376
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-105.128	5082.516	56.076	1.53704
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-105.128	5085.998	57.967	1.88962
-105.128	5085.998	58.848	1.48630
-105.128	5085.998	59.729	1.24625
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-94.683	5106.887	71.218	1.49714
-94.683	5106.887	73.453	1.38344
-94.683	5106.887	75.688	1.32450
-94.683	5106.887	77.923	1.33876
-94.683	5106.887	80.158	1.40655
-94.683	5106.887	82.393	1.48352
-94.683	5106.887	84.628	1.53244
-94.683	5106.887	86.863	1.72425
-94.683	5110.369	67.224	3.66895
-94.683	5110.369	69.522	2.22965
-94.683	5110.369	71.821	1.86997
-94.683	5110.369	74.119	1.55567
-94.683	5110.369	76.418	1.42895
-94.683	5110.369	78.717	1.36879
-94.683	5110.369	81.015	1.36807
-94.683	5110.369	83.314	1.43615
-94.683	5110.369	85.613	1.51827
-94.683	5110.369	87.911	1.56956
-94.683	5110.369	90.210	1.75189
-94.683	5113.851	70.003	3.92078
-94.683	5113.851	72.360	2.23399
-94.683	5113.851	74.716	1.96385
-94.683	5113.851	77.072	1.61483
-94.683	5113.851	79.429	1.47498
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-94.683	5113.851	84.142	1.39846
-94.683	5113.851	86.498	1.46637
-94.683	5113.851	88.854	1.55320
-94.683	5113.851	91.211	1.60516
-94.683	5113.851	93.567	1.78022
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-94.683	5117.332	75.253	2.23684
-94.683	5117.332	77.662	2.05503
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-94.683	5117.332	92.116	1.58517
-94.683	5117.332	94.525	1.64069
-94.683	5117.332	96.934	1.80864
-94.683	5120.814	75.739	4.39826
-94.683	5120.814	78.196	2.23946
-94.683	5120.814	80.653	2.09635
-94.683	5120.814	83.110	1.73421
-94.683	5120.814	85.567	1.56798

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-94.683	5134.740	111.263	1.81063
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-91.202	5065.108	32.054	3.73570
-91.202	5065.108	33.778	1.69072
-91.202	5065.108	35.502	1.22770
-91.202	5065.108	37.226	1.14082

-91.202	5065.108	38.951	1.14183
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-91.202	5065.108	49.295	6.07447
-91.202	5068.590	34.546	4.04142
-91.202	5068.590	36.323	1.67134
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-91.202	5117.332	89.635	1.61429
-91.202	5117.332	92.293	1.71154
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-91.202	5117.332	97.609	1.89407
-91.202	5120.814	73.995	4.46276
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-91.202	5120.814	87.478	1.56065
-91.202	5120.814	90.175	1.55231
-91.202	5120.814	92.872	1.64336
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-87.720	5082.516	56.519	1.37798
-87.720	5082.516	58.895	1.44781
-87.720	5082.516	61.270	1.53357
-87.720	5082.516	63.646	1.63160
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-87.720	5085.998	52.081	1.26667
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-87.720	5085.998	56.961	1.29996
-87.720	5085.998	59.401	1.39701
-87.720	5085.998	61.841	1.48052
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-87.720	5089.479	59.793	1.31875
-87.720	5089.479	62.300	1.41728
-87.720	5089.479	64.807	1.51261
-87.720	5089.479	67.313	1.55986
-87.720	5089.479	69.820	1.69090
-87.720	5089.479	72.327	4.59943
-87.720	5092.961	49.760	2.84252
-87.720	5092.961	52.336	2.04164
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-87.720	5092.961	57.487	1.36928
-87.720	5092.961	60.062	1.31960
-87.720	5092.961	62.638	1.33831
-87.720	5092.961	65.213	1.43826
-87.720	5092.961	67.789	1.54332
-87.720	5092.961	70.364	1.59780

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-77.275	5131.259	103.341	2.38217
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-77.275	5134.740	95.804	2.24861
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-63.349	5085.998	34.300	2.81342
-63.349	5085.998	37.831	2.80043
-63.349	5085.998	41.363	2.71374
-63.349	5085.998	44.895	2.28780
-63.349	5085.998	48.427	2.21766
-63.349	5085.998	51.959	2.18727
-63.349	5085.998	55.490	2.58580
-63.349	5085.998	59.022	2.76420
-63.349	5085.998	62.554	2.84076
-63.349	5085.998	66.086	2.57945
-63.349	5089.479	33.962	6.95674
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-63.349	5089.479	40.686	2.90375
-63.349	5089.479	44.048	2.83025
-63.349	5089.479	47.411	2.39699
-63.349	5089.479	50.773	2.28369
-63.349	5089.479	54.135	2.23343
-63.349	5089.479	57.497	2.51485
-63.349	5089.479	60.860	2.72884
-63.349	5089.479	64.222	2.86591
-63.349	5089.479	67.584	2.84715
-63.349	5092.961	37.198	7.95363
-63.349	5092.961	40.400	3.14021
-63.349	5092.961	43.602	2.93982
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-63.349	5092.961	50.007	2.52937
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-59.867	5134.740	82.255	5.05972
-59.867	5134.740	84.004	4.85363
-59.867	5134.740	85.753	4.61407
-59.867	5134.740	87.502	4.29696
-59.867	5134.740	89.251	4.07671
-59.867	5134.740	91.000	3.63120
-59.867	5134.740	92.749	3.45935
-59.867	5134.740	94.498	3.29052
-56.386	5065.108	9.302	4.10175
-56.386	5065.108	13.741	3.02882
-56.386	5065.108	18.180	3.29572
-56.386	5065.108	22.619	2.87174
-56.386	5065.108	27.058	2.78010
-56.386	5065.108	31.497	2.79176
-56.386	5065.108	35.935	3.49299
-56.386	5065.108	40.374	3.61775
-56.386	5065.108	44.813	3.28904
-56.386	5065.108	49.252	5.90127
-56.386	5065.108	53.691	7.07668
-56.386	5068.590	12.400	5.48029
-56.386	5068.590	16.586	3.18853
-56.386	5068.590	20.771	3.35308
-56.386	5068.590	24.957	3.00041
-56.386	5068.590	29.142	2.77005

-56.386	5068.590	33.327	2.75163
-56.386	5068.590	37.513	3.29237
-56.386	5068.590	41.698	3.50006
-56.386	5068.590	45.884	3.53696
-56.386	5068.590	50.069	3.10038
-56.386	5068.590	54.255	6.34953
-56.386	5072.071	15.625	7.24913
-56.386	5072.071	19.564	3.13489
-56.386	5072.071	23.504	3.44451
-56.386	5072.071	27.444	3.33698
-56.386	5072.071	31.384	2.80339
-56.386	5072.071	35.324	2.74378
-56.386	5072.071	39.264	3.01959
-56.386	5072.071	43.203	3.37287
-56.386	5072.071	47.143	3.50559
-56.386	5072.071	51.083	3.32919
-56.386	5072.071	55.023	5.10721
-56.386	5075.553	18.906	8.54944
-56.386	5075.553	22.614	3.43663
-56.386	5075.553	26.322	3.46816
-56.386	5075.553	30.030	3.43360
-56.386	5075.553	33.738	2.87488
-56.386	5075.553	37.446	2.76326
-56.386	5075.553	41.154	2.70762
-56.386	5075.553	44.862	3.24500
-56.386	5075.553	48.570	3.44479
-56.386	5075.553	52.278	3.51086
-56.386	5075.553	55.986	3.10958
-56.386	5079.035	22.220	9.93560
-56.386	5079.035	25.711	3.76967
-56.386	5079.035	29.203	3.50544
-56.386	5079.035	32.694	3.55507
-56.386	5079.035	36.185	3.00241
-56.386	5079.035	39.677	2.80881
-56.386	5079.035	43.168	2.73120
-56.386	5079.035	46.660	3.07014
-56.386	5079.035	50.151	3.36649
-56.386	5079.035	53.642	3.50629
-56.386	5079.035	57.134	3.46985
-56.386	5082.516	25.556	11.41880
-56.386	5082.516	28.846	4.13318
-56.386	5082.516	32.136	3.70416
-56.386	5082.516	35.426	3.69386
-56.386	5082.516	38.717	3.22587
-56.386	5082.516	42.007	2.87771
-56.386	5082.516	45.297	2.76930
-56.386	5082.516	48.587	2.70053
-56.386	5082.516	51.877	3.28374
-56.386	5082.516	55.167	3.46205
-56.386	5082.516	58.457	3.49225
-56.386	5085.998	28.909	13.00640
-56.386	5085.998	32.013	4.52785
-56.386	5085.998	35.116	3.91509
-56.386	5085.998	38.220	3.84353

-56.386	5085.998	41.324	3.61437
-56.386	5085.998	44.427	2.97000
-56.386	5085.998	47.531	2.82162
-56.386	5085.998	50.635	2.73804
-56.386	5085.998	53.738	3.15152
-56.386	5085.998	56.842	3.40604
-56.386	5085.998	59.946	3.49674
-56.386	5089.479	32.276	14.70630
-56.386	5089.479	35.207	4.95527
-56.386	5089.479	38.138	4.13233
-56.386	5089.479	41.069	3.99618
-56.386	5089.479	44.000	3.74887
-56.386	5089.479	46.932	3.08698
-56.386	5089.479	49.863	2.89138
-56.386	5089.479	52.794	2.79003
-56.386	5089.479	55.725	2.77289
-56.386	5089.479	58.656	3.34288
-56.386	5089.479	61.588	3.45841
-56.386	5092.961	35.653	16.52480
-56.386	5092.961	38.425	5.41766
-56.386	5092.961	41.197	4.34687
-56.386	5092.961	43.969	4.12594
-56.386	5092.961	46.741	3.89155
-56.386	5092.961	49.513	3.26344
-56.386	5092.961	52.285	2.97808
-56.386	5092.961	55.057	2.85539
-56.386	5092.961	57.829	2.82410
-56.386	5092.961	60.601	3.22362
-56.386	5092.961	63.373	3.41654
-56.386	5096.443	39.041	18.46770
-56.386	5096.443	41.665	5.91756
-56.386	5096.443	44.290	4.53682
-56.386	5096.443	46.915	4.06708
-56.386	5096.443	49.540	4.03860
-56.386	5096.443	52.165	3.58647
-56.386	5096.443	54.790	3.08222
-56.386	5096.443	57.415	2.93351
-56.386	5096.443	60.040	2.88621
-56.386	5096.443	62.664	2.86311
-56.386	5096.443	65.289	3.36301
-56.386	5099.924	42.436	20.54010
-56.386	5099.924	44.925	6.45813
-56.386	5099.924	47.415	4.48846
-56.386	5099.924	49.904	4.27002
-56.386	5099.924	52.393	4.19061
-56.386	5099.924	54.882	3.85101
-56.386	5099.924	57.371	3.20583
-56.386	5099.924	59.860	3.02426
-56.386	5099.924	62.349	2.95870
-56.386	5099.924	64.838	2.92430
-56.386	5099.924	67.327	3.23948
-56.386	5103.406	45.840	22.74610
-56.386	5103.406	48.203	7.04304
-56.386	5103.406	50.567	4.78453

-56.386	5103.406	52.931	4.47997
-56.386	5103.406	55.294	4.34359
-56.386	5103.406	57.658	3.99949
-56.386	5103.406	60.022	3.36257
-56.386	5103.406	62.385	3.12799
-56.386	5103.406	64.749	3.04132
-56.386	5103.406	67.113	2.99511
-56.386	5103.406	69.476	2.92285
-56.386	5106.887	49.249	25.09010
-56.386	5106.887	51.497	7.67662
-56.386	5106.887	53.745	5.09840
-56.386	5106.887	55.993	4.69437
-56.386	5106.887	58.240	4.49058
-56.386	5106.887	60.488	4.14538
-56.386	5106.887	62.736	3.64756
-56.386	5106.887	64.984	3.24574
-56.386	5106.887	67.232	3.13386
-56.386	5106.887	69.479	3.07511
-56.386	5106.887	71.727	2.98936
-56.386	5110.369	52.665	27.57520
-56.386	5110.369	54.805	8.36418
-56.386	5110.369	56.946	5.43047
-56.386	5110.369	59.087	4.90996
-56.386	5110.369	61.227	4.59693
-56.386	5110.369	63.368	4.32532
-56.386	5110.369	65.508	3.97148
-56.386	5110.369	67.649	3.38014
-56.386	5110.369	69.789	3.23696
-56.386	5110.369	71.930	3.16425
-56.386	5110.369	74.071	3.06396
-56.386	5113.851	56.086	30.20500
-56.386	5113.851	58.127	9.11275
-56.386	5113.851	60.168	5.78134
-56.386	5113.851	62.210	5.12140
-56.386	5113.851	64.251	4.55644
-56.386	5113.851	66.292	4.46954
-56.386	5113.851	68.333	4.10588
-56.386	5113.851	70.375	3.54006
-56.386	5113.851	72.416	3.35179
-56.386	5113.851	74.457	3.26252
-56.386	5113.851	76.499	3.14632
-56.386	5117.332	59.511	32.98250
-56.386	5117.332	61.460	9.93124
-56.386	5117.332	63.410	6.15162
-56.386	5117.332	65.359	5.31862
-56.386	5117.332	67.308	4.74890
-56.386	5117.332	69.257	4.61265
-56.386	5117.332	71.207	4.24400
-56.386	5117.332	73.156	3.83495
-56.386	5117.332	75.105	3.47937
-56.386	5117.332	77.055	3.37016
-56.386	5117.332	79.004	3.23643
-56.386	5120.814	62.941	35.91020
-56.386	5120.814	64.805	10.83300

-56.386	5120.814	66.668	6.54212
-56.386	5120.814	68.532	5.46787
-56.386	5120.814	70.396	4.94537
-56.386	5120.814	72.260	4.75012
-56.386	5120.814	74.124	4.38461
-56.386	5120.814	75.988	4.16345
-56.386	5120.814	77.852	3.62307
-56.386	5120.814	79.715	3.48794
-56.386	5120.814	81.579	3.33450
-56.386	5124.295	66.374	38.99080
-56.386	5124.295	68.159	11.83950
-56.386	5124.295	69.943	6.95360
-56.386	5124.295	71.728	5.44949
-56.386	5124.295	73.512	5.14449
-56.386	5124.295	75.296	4.87200
-56.386	5124.295	77.081	4.52625
-56.386	5124.295	78.865	4.29830
-56.386	5124.295	80.650	3.79847
-56.386	5124.295	82.434	3.61670
-56.386	5124.295	84.219	3.44051
-56.386	5127.777	69.811	42.22710
-56.386	5127.777	71.522	12.99460
-56.386	5127.777	73.232	7.38719
-56.386	5127.777	74.943	5.74798
-56.386	5127.777	76.653	5.34423
-56.386	5127.777	78.364	4.77407
-56.386	5127.777	80.074	4.66687
-56.386	5127.777	81.785	4.43556
-56.386	5127.777	83.495	4.13309
-56.386	5127.777	85.206	3.75854
-56.386	5127.777	86.916	3.55493
-56.386	5131.259	73.251	45.62130
-56.386	5131.259	74.893	14.45370
-56.386	5131.259	76.534	7.84388
-56.386	5131.259	78.176	6.06232
-56.386	5131.259	79.818	5.54201
-56.386	5131.259	81.459	4.94705
-56.386	5131.259	83.101	4.80425
-56.386	5131.259	84.742	4.57423
-56.386	5131.259	86.384	4.42176
-56.386	5131.259	88.025	3.91755
-56.386	5131.259	89.667	3.67877
-56.386	5134.740	76.694	49.17550
-56.386	5134.740	78.271	15.89880
-56.386	5134.740	79.849	8.32491
-56.386	5134.740	81.426	6.40580
-56.386	5134.740	83.003	5.73357
-56.386	5134.740	84.580	5.12258
-56.386	5134.740	86.157	4.93482
-56.386	5134.740	87.735	4.71345
-56.386	5134.740	89.312	4.55678
-56.386	5134.740	90.889	4.12809
-56.386	5134.740	92.466	3.81332

Raw Data for Minimum Circle Results

Center_x	Center_y	Radius	Factor_of_Safety
-126.017	5065.108	44.841	-1000.00000
-126.017	5068.590	48.241	-1000.00000
-126.017	5072.071	51.652	-1000.00000
-126.017	5075.553	55.072	-1000.00000
-126.017	5079.035	58.499	-1000.00000
-126.017	5082.516	61.932	-1000.00000
-126.017	5085.998	65.370	-1000.00000
-126.017	5089.479	68.812	-1000.00000
-126.017	5092.961	72.259	-1000.00000
-126.017	5096.443	75.708	-1000.00000
-126.017	5099.924	79.161	-1000.00000
-126.017	5103.406	82.615	-1000.00000
-126.017	5106.887	86.031	4.72712
-126.017	5110.369	89.440	2.24925
-126.017	5113.851	92.851	1.63841
-126.017	5117.332	96.263	1.41523
-126.017	5120.814	99.677	1.29243
-126.017	5124.295	103.091	1.23257
-126.017	5127.777	106.507	1.20294
-126.017	5131.259	109.923	1.19149
-126.017	5134.740	113.342	1.19120
-122.536	5065.108	44.194	-1000.00000
-122.536	5068.590	47.640	-1000.00000
-122.536	5072.071	51.091	-1000.00000
-122.536	5075.553	54.546	-1000.00000
-122.536	5079.035	58.004	-1000.00000
-122.536	5082.516	61.465	-1000.00000
-122.536	5085.998	64.928	-1000.00000
-122.536	5089.479	68.392	-1000.00000
-122.536	5092.961	71.859	-1000.00000
-122.536	5096.443	75.327	-1000.00000
-122.536	5099.924	78.749	4.15258
-122.536	5103.406	82.169	2.15729
-122.536	5106.887	85.590	1.54801
-122.536	5110.369	89.011	1.32083
-122.536	5113.851	92.433	1.22221
-122.536	5117.332	95.856	1.17610
-122.536	5120.814	99.279	1.15750
-122.536	5124.295	102.703	1.15441
-122.536	5127.777	106.127	1.16079
-122.536	5131.259	109.553	1.17331
-122.536	5134.740	112.982	1.18995
-119.054	5065.108	43.815	-1000.00000
-119.054	5068.590	47.288	-1000.00000
-119.054	5072.071	50.763	-1000.00000
-119.054	5075.553	54.239	-1000.00000
-119.054	5079.035	57.715	-1000.00000
-119.054	5082.516	61.192	-1000.00000
-119.054	5085.998	64.670	-1000.00000
-119.054	5089.479	68.142	15.65700
-119.054	5092.961	71.569	3.32091
-119.054	5096.443	74.997	1.88717
-119.054	5099.924	78.425	1.42429

-119.054	5103.406	81.853	1.23722
-119.054	5106.887	85.281	1.15925
-119.054	5110.369	88.710	1.12775
-119.054	5113.851	92.139	1.11943
-119.054	5117.332	95.568	1.12409
-119.054	5120.814	98.997	1.13664
-119.054	5124.295	102.426	1.15426
-119.054	5127.777	105.856	1.17527
-119.054	5131.259	109.290	1.19863
-119.054	5134.740	111.547	1.22190
-115.573	5065.108	43.708	-102.00000
-115.573	5068.590	47.190	-102.00000
-115.573	5072.071	50.671	-102.00000
-115.573	5075.553	54.153	-102.00000
-115.573	5079.035	57.635	-102.00000
-115.573	5082.516	61.094	4.83262
-115.573	5085.998	64.524	2.38885
-115.573	5089.479	67.955	1.59718
-115.573	5092.961	71.385	1.31221
-115.573	5096.443	74.816	1.16484
-115.573	5099.924	78.246	1.10802
-115.573	5103.406	81.677	1.08961
-115.573	5106.887	85.108	1.09043
-115.573	5110.369	88.538	1.10200
-115.573	5113.851	91.969	1.12006
-115.573	5117.332	95.399	1.14228
-115.573	5120.814	97.777	1.16301
-115.573	5124.295	101.120	1.18581
-115.573	5127.777	104.471	1.21017
-115.573	5131.259	107.831	1.23564
-115.573	5134.740	109.820	1.26088
-112.091	5065.108	43.717	-108.00000
-112.091	5068.590	47.198	-108.00000
-112.091	5072.071	50.814	76.79880
-112.091	5075.553	54.242	2.18125
-112.091	5079.035	57.664	1.71419
-112.091	5082.516	61.088	1.37615
-112.091	5085.998	64.512	1.21747
-112.091	5089.479	67.937	1.11051
-112.091	5092.961	71.362	1.07172
-112.091	5096.443	74.788	1.06422
-112.091	5099.924	78.215	1.07261
-112.091	5103.406	80.818	1.08967
-112.091	5106.887	84.153	1.10729
-112.091	5110.369	87.489	1.12893
-112.091	5113.851	89.727	1.15066
-112.091	5117.332	92.972	1.17327
-112.091	5120.814	96.223	1.19734
-112.091	5124.295	99.490	1.22246
-112.091	5127.777	102.771	1.24835
-112.091	5131.259	106.066	1.27481
-112.091	5134.740	109.372	1.30170
-108.609	5065.108	44.282	1.79799
-108.609	5068.590	47.670	1.37399

-108.609	5072.071	51.064	1.34085
-108.609	5075.553	54.462	1.22195
-108.609	5079.035	57.864	1.13471
-108.609	5082.516	61.269	1.07892
-108.609	5085.998	64.677	1.05343
-108.609	5089.479	68.087	1.05347
-108.609	5092.961	70.704	1.06437
-108.609	5096.443	73.142	1.07859
-108.609	5099.924	76.376	1.09502
-108.609	5103.406	79.612	1.11563
-108.609	5106.887	81.692	1.13842
-108.609	5110.369	84.838	1.16114
-108.609	5113.851	87.986	1.18559
-108.609	5117.332	91.143	1.21126
-108.609	5120.814	94.324	1.23778
-108.609	5124.295	97.526	1.26494
-108.609	5127.777	100.747	1.29258
-108.609	5131.259	103.986	1.32057
-108.609	5134.740	107.241	1.34774
-105.128	5065.108	44.835	1.14057
-105.128	5068.590	48.175	1.11870
-105.128	5072.071	51.527	1.08010
-105.128	5075.553	54.888	1.05926
-105.128	5079.035	58.258	1.04376
-105.128	5082.516	61.634	1.04914
-105.128	5085.998	63.254	1.06138
-105.128	5089.479	65.497	1.07055
-105.128	5092.961	68.624	1.08428
-105.128	5096.443	71.754	1.10290
-105.128	5099.924	74.886	1.12473
-105.128	5103.406	78.020	1.14871
-105.128	5106.887	81.155	1.17415
-105.128	5110.369	84.292	1.20061
-105.128	5113.851	87.441	1.22789
-105.128	5117.332	90.615	1.25589
-105.128	5120.814	93.812	1.28445
-105.128	5124.295	97.029	1.31340
-105.128	5127.777	100.266	1.34159
-105.128	5131.259	103.519	1.37094
-105.128	5134.740	106.789	1.40042
-101.646	5065.108	44.951	1.06276
-101.646	5068.590	48.151	1.05875
-101.646	5072.071	51.369	1.05240
-101.646	5075.553	54.601	1.05484
-101.646	5079.035	55.854	1.06713
-101.646	5082.516	57.864	1.06870
-101.646	5085.998	60.876	1.07698
-101.646	5089.479	63.893	1.09184
-101.646	5092.961	66.914	1.11108
-101.646	5096.443	69.940	1.13339
-101.646	5099.924	72.968	1.15796
-101.646	5103.406	75.999	1.18430
-101.646	5106.887	79.033	1.21217
-101.646	5110.369	82.084	1.24148

-101.646	5113.851	85.169	1.27208
-101.646	5117.332	88.285	1.30377
-101.646	5120.814	91.430	1.33637
-101.646	5124.295	94.600	1.36865
-101.646	5127.777	97.793	1.40266
-101.646	5131.259	101.007	1.43728
-101.646	5134.740	106.436	1.46864
-98.165	5065.108	43.627	1.08780
-98.165	5068.590	47.696	1.07360
-98.165	5072.071	50.780	1.08298
-98.165	5075.553	50.210	1.07945
-98.165	5079.035	53.099	1.07709
-98.165	5082.516	55.997	1.08483
-98.165	5085.998	58.903	1.09945
-98.165	5089.479	61.815	1.11909
-98.165	5092.961	64.732	1.14274
-98.165	5096.443	67.655	1.16997
-98.165	5099.924	70.581	1.20085
-98.165	5103.406	73.512	1.23593
-98.165	5106.887	78.419	1.26734
-98.165	5110.369	81.491	1.29693
-98.165	5113.851	84.597	1.32769
-98.165	5117.332	87.735	1.35835
-98.165	5120.814	90.900	1.39086
-98.165	5124.295	94.089	1.42409
-98.165	5127.777	97.301	1.45797
-98.165	5131.259	100.532	1.49245
-98.165	5134.740	103.782	1.52746
-94.683	5065.108	43.807	1.11527
-94.683	5068.590	43.901	1.11366
-94.683	5072.071	45.243	1.09424
-94.683	5075.553	48.018	1.08796
-94.683	5079.035	50.804	1.09388
-94.683	5082.516	53.600	1.10902
-94.683	5085.998	56.404	1.13210
-94.683	5089.479	59.216	1.16329
-94.683	5092.961	63.961	1.19054
-94.683	5096.443	66.863	1.21814
-94.683	5099.924	69.771	1.24912
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-94.683	5106.887	75.688	1.32450
-94.683	5110.369	81.015	1.36807
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-91.202	5075.553	45.227	1.11476
-91.202	5079.035	49.881	1.12761

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-91.202	5096.443	66.143	1.28282
-91.202	5099.924	69.052	1.31260
-91.202	5103.406	72.018	1.34605
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-91.202	5120.814	90.175	1.55231
-91.202	5124.295	93.397	1.58584
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Project Title: SLIDE - An Interactive Slope Stability Program

Analysis Method: bishop simplified

Raw Data for All Circle Results

Center_x	Center_y	Radius	Factor_of_Safety
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FIGURE 3 C-C' DATA

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-96.128	5082.574	57.023	1.09483

-96.128	5082.574	58.709	1.13062
-96.128	5082.574	60.394	1.19925
-96.128	5082.574	62.080	1.40318
-96.128	5082.574	63.765	1.53136
-96.128	5085.894	49.299	2.31528
-96.128	5085.894	51.058	1.34704
-96.128	5085.894	52.817	1.17485
-96.128	5085.894	54.576	1.12121
-96.128	5085.894	56.336	1.10719
-96.128	5085.894	58.095	1.11056
-96.128	5085.894	59.854	1.12245
-96.128	5085.894	61.614	1.14873
-96.128	5085.894	63.373	1.22304
-96.128	5085.894	65.132	1.39071
-96.128	5085.894	66.891	1.55333
-96.128	5089.214	51.688	2.31636
-96.128	5089.214	53.522	1.38161
-96.128	5089.214	55.357	1.20791
-96.128	5089.214	57.191	1.15278
-96.128	5089.214	59.025	1.13789
-96.128	5089.214	60.859	1.14043
-96.128	5089.214	62.694	1.15169
-96.128	5089.214	64.528	1.16838
-96.128	5089.214	66.362	1.24681
-96.128	5089.214	68.197	1.31973
-96.128	5089.214	70.031	1.57713
-96.128	5092.535	54.078	2.41224
-96.128	5092.535	55.988	1.43075
-96.128	5092.535	57.899	1.24720
-96.128	5092.535	59.809	1.18797
-96.128	5092.535	61.720	1.17095
-96.128	5092.535	63.630	1.17199
-96.128	5092.535	65.540	1.18219
-96.128	5092.535	67.451	1.19280
-96.128	5092.535	69.361	1.26968
-96.128	5092.535	71.272	1.34814
-96.128	5092.535	73.182	1.60228
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-96.128	5095.855	60.452	1.29173
-96.128	5095.855	62.438	1.22624
-96.128	5095.855	64.425	1.20598
-96.128	5095.855	66.411	1.20495
-96.128	5095.855	68.398	1.21373
-96.128	5095.855	70.384	1.22720
-96.128	5095.855	72.371	1.29248
-96.128	5095.855	74.357	1.37745
-96.128	5095.855	76.344	1.62836
-96.128	5099.175	58.956	2.75074
-96.128	5099.175	61.013	1.55468
-96.128	5099.175	63.069	1.33681
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-96.128	5099.175	79.518	1.65208
-96.128	5102.495	61.515	2.88628
-96.128	5102.495	63.634	1.61645
-96.128	5102.495	65.753	1.38410
-96.128	5102.495	67.872	1.30779
-96.128	5102.495	69.991	1.28017
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-96.128	5102.495	80.586	1.43649
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-96.128	5105.815	64.143	3.00607
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-96.128	5105.815	75.023	1.31018
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-96.128	5112.455	78.679	1.39645
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-96.128	5119.095	91.709	1.45272
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-96.128	5122.415	97.230	1.47647
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-96.128	5122.415	102.014	1.83392
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-96.128	5125.735	100.405	1.50318
-96.128	5125.735	102.830	1.62565
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-92.808	5072.614	39.383	1.28737
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-92.808	5072.614	46.584	1.06474
-92.808	5072.614	48.384	1.11471
-92.808	5072.614	50.185	1.19688
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-92.808	5072.614	55.585	4.69456
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-92.808	5075.934	51.143	1.11945
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-92.808	5079.254	46.206	1.13080

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-86.168	5115.775	82.801	1.68278
-86.168	5115.775	85.782	1.66381
-86.168	5115.775	88.762	1.67097
-86.168	5115.775	91.742	1.87266
-86.168	5115.775	94.723	2.07698
-86.168	5115.775	97.703	2.10558
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-79.528	5062.654	44.096	1.75916
-79.528	5062.654	47.265	5.35828
-79.528	5062.654	50.435	6.47150
-79.528	5062.654	53.604	7.14263
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-79.528	5065.974	27.454	1.20005
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-79.528	5069.294	33.050	1.23886
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-79.528	5092.535	64.835	1.64649

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-79.528	5092.535	71.623	2.11396
-79.528	5092.535	75.017	3.80351
-79.528	5092.535	78.410	6.24805
-79.528	5095.855	47.362	2.97763
-79.528	5095.855	50.764	1.89566
-79.528	5095.855	54.165	1.71651
-79.528	5095.855	57.567	1.66944
-79.528	5095.855	60.968	1.66542
-79.528	5095.855	64.370	1.67248
-79.528	5095.855	67.771	1.67859
-79.528	5095.855	71.173	1.93627
-79.528	5095.855	74.574	2.17831
-79.528	5095.855	77.976	3.00113
-79.528	5095.855	81.377	6.16843
-79.528	5099.175	50.306	3.16295
-79.528	5099.175	53.712	1.99267
-79.528	5099.175	57.119	1.78794
-79.528	5099.175	60.526	1.72709
-79.528	5099.175	63.932	1.71522
-79.528	5099.175	67.339	1.70690
-79.528	5099.175	70.745	1.71203
-79.528	5099.175	74.152	1.93831
-79.528	5099.175	77.558	2.20992
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-79.528	5099.175	84.371	6.08411
-79.528	5102.495	53.294	3.34863
-79.528	5102.495	56.704	2.08999
-79.528	5102.495	60.113	1.85970
-79.528	5102.495	63.523	1.78515
-79.528	5102.495	66.932	1.76570
-79.528	5102.495	70.342	1.74088
-79.528	5102.495	73.751	1.74713
-79.528	5102.495	77.161	1.93642
-79.528	5102.495	80.571	2.24336
-79.528	5102.495	83.980	2.15341
-79.528	5102.495	87.390	5.99770
-79.528	5105.815	56.321	3.53468
-79.528	5105.815	59.731	2.18734
-79.528	5105.815	63.142	1.93152
-79.528	5105.815	66.553	1.84336
-79.528	5105.815	69.964	1.81218
-79.528	5105.815	73.375	1.77708
-79.528	5105.815	76.786	1.78418
-79.528	5105.815	80.197	1.92943
-79.528	5105.815	83.607	2.27317
-79.528	5105.815	87.018	2.19489
-79.528	5105.815	90.429	5.90956
-79.528	5109.135	59.325	3.78751
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-79.528	5109.135	89.158	2.27253
-79.528	5109.135	92.472	5.08877
-79.528	5112.455	62.350	4.06192
-79.528	5112.455	65.556	2.43324
-79.528	5112.455	68.762	2.10330
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-79.528	5112.455	75.173	1.91803
-79.528	5112.455	78.379	1.86173
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-79.528	5112.455	84.791	1.87161
-79.528	5112.455	87.996	2.17717
-79.528	5112.455	91.202	2.39487
-79.528	5112.455	94.408	2.22876
-79.528	5115.775	65.402	4.34717
-79.528	5115.775	68.503	2.56423
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-79.528	5115.775	77.808	1.97397
-79.528	5115.775	80.909	1.90773
-79.528	5115.775	84.011	1.89580
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-79.528	5115.775	90.214	2.06600
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-79.528	5115.775	96.417	2.31072
-79.528	5119.095	68.476	4.64290
-79.528	5119.095	71.478	2.69931
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-79.528	5122.415	74.477	2.83842
-79.528	5122.415	77.384	2.38594
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-79.528	5122.415	89.012	1.98099
-79.528	5122.415	91.919	1.98072
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-79.528	5122.415	97.733	2.26197
-79.528	5122.415	100.640	2.47779
-79.528	5125.735	74.682	5.26703
-79.528	5125.735	77.498	2.98153
-79.528	5125.735	80.315	2.48568
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-72.888	5072.614	48.913	2.25386
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-72.888	5072.614	60.989	6.60509
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-69.568	5125.735	86.334	2.64518
-69.568	5125.735	88.705	2.60637
-69.568	5125.735	91.076	2.59248
-69.568	5125.735	93.447	2.54074
-69.568	5125.735	95.817	2.49575
-69.568	5129.055	75.340	10.21300
-69.568	5129.055	77.630	5.04760
-69.568	5129.055	79.920	3.88756

-69.568	5129.055	82.210	3.42360
-69.568	5129.055	84.500	2.98070
-69.568	5129.055	86.790	2.80140
-69.568	5129.055	89.080	2.71583
-69.568	5129.055	91.370	2.66998
-69.568	5129.055	93.659	2.65193
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-66.248	5062.654	13.466	1.81851
-66.248	5062.654	18.337	1.73130
-66.248	5062.654	23.209	1.86918
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-66.248	5062.654	37.823	2.73209
-66.248	5062.654	42.695	2.68593
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-66.248	5062.654	62.181	10.18470
-66.248	5065.974	15.791	2.10709
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-62.928	5105.815	54.173	5.31119
-62.928	5105.815	56.761	4.04735
-62.928	5105.815	59.350	3.49707
-62.928	5105.815	61.938	3.06796
-62.928	5105.815	64.526	2.91229
-62.928	5105.815	67.115	2.84630
-62.928	5105.815	69.703	2.82453
-62.928	5105.815	72.291	2.79980
-62.928	5105.815	74.880	2.74334
-62.928	5105.815	77.468	2.69721
-62.928	5109.135	54.828	12.28940
-62.928	5109.135	57.307	5.64472
-62.928	5109.135	59.787	4.25335
-62.928	5109.135	62.267	3.62960
-62.928	5109.135	64.746	3.17262
-62.928	5109.135	67.226	3.00092
-62.928	5109.135	69.706	2.92338
-62.928	5109.135	72.185	2.89298
-62.928	5109.135	74.665	2.86070
-62.928	5109.135	77.145	2.79503
-62.928	5109.135	79.624	2.74130
-62.928	5112.455	58.076	13.29060
-62.928	5112.455	60.454	5.99078
-62.928	5112.455	62.832	4.46664
-62.928	5112.455	65.210	3.76706
-62.928	5112.455	67.588	3.28152
-62.928	5112.455	69.966	3.09360
-62.928	5112.455	72.344	3.00452
-62.928	5112.455	74.722	2.96545
-62.928	5112.455	77.100	2.92602
-62.928	5112.455	79.478	2.85105
-62.928	5112.455	81.856	2.78966
-62.928	5115.775	61.331	14.33790
-62.928	5115.775	63.613	6.34944
-62.928	5115.775	65.896	4.68715
-62.928	5115.775	68.179	3.90937
-62.928	5115.775	70.462	3.39435
-62.928	5115.775	72.745	3.19002
-62.928	5115.775	75.027	3.08939
-62.928	5115.775	77.310	3.04156
-62.928	5115.775	79.593	2.99546
-62.928	5115.775	81.876	2.91110
-62.928	5115.775	84.159	2.84198
-62.928	5119.095	64.589	15.43230
-62.928	5119.095	66.783	6.72090
-62.928	5119.095	68.977	4.91478
-62.928	5119.095	71.170	4.05614
-62.928	5119.095	73.364	3.51087
-62.928	5119.095	75.557	3.28990

-62.928	5119.095	77.751	3.17771
-62.928	5119.095	79.945	3.12106
-62.928	5119.095	82.138	3.06874
-62.928	5119.095	84.332	2.97491
-62.928	5119.095	86.525	2.89795
-62.928	5122.415	67.852	16.57470
-62.928	5122.415	69.962	7.10526
-62.928	5122.415	72.072	5.14954
-62.928	5122.415	74.182	4.20701
-62.928	5122.415	76.292	3.63090
-62.928	5122.415	78.402	3.39299
-62.928	5122.415	80.512	3.26925
-62.928	5122.415	82.622	3.20276
-62.928	5122.415	84.732	3.14561
-62.928	5122.415	86.842	3.04219
-62.928	5122.415	88.952	2.95734
-62.928	5125.735	71.119	17.76580
-62.928	5125.735	73.151	7.50264
-62.928	5125.735	75.182	5.39134
-62.928	5125.735	77.213	4.36162
-62.928	5125.735	79.245	3.75425
-62.928	5125.735	81.276	3.49911
-62.928	5125.735	83.308	3.36379
-62.928	5125.735	85.339	3.28701
-62.928	5125.735	87.371	3.22586
-62.928	5125.735	89.402	3.11273
-62.928	5125.735	91.434	3.01987
-62.928	5129.055	74.390	19.00660
-62.928	5129.055	76.347	7.91323
-62.928	5129.055	78.305	5.64017
-62.928	5129.055	80.262	4.51976
-62.928	5129.055	82.220	3.88071
-62.928	5129.055	84.178	3.60806
-62.928	5129.055	86.135	3.46114
-62.928	5129.055	88.093	3.37523
-62.928	5129.055	90.051	3.30926
-62.928	5129.055	92.008	3.18634
-62.928	5129.055	93.966	3.08534
-59.608	5062.654	9.569	3.98006
-59.608	5062.654	14.247	2.96813
-59.608	5062.654	18.925	2.86224
-59.608	5062.654	23.602	2.85761
-59.608	5062.654	28.280	2.87534
-59.608	5062.654	32.958	2.85108
-59.608	5062.654	37.636	3.51153
-59.608	5062.654	42.314	3.58338
-59.608	5062.654	46.991	6.31085
-59.608	5062.654	51.669	7.74709
-59.608	5062.654	56.347	8.58682
-59.608	5065.974	12.666	4.72208
-59.608	5065.974	17.089	3.13657
-59.608	5065.974	21.513	2.89973
-59.608	5065.974	25.936	2.84258
-59.608	5065.974	30.359	2.82839

-59.608	5065.974	34.783	2.77771
-59.608	5065.974	39.206	2.78741
-59.608	5065.974	43.629	3.86001
-59.608	5065.974	48.052	3.83384
-59.608	5065.974	52.476	7.06958
-59.608	5065.974	56.899	7.91415
-59.608	5069.294	15.810	5.49389
-59.608	5069.294	19.991	3.34713
-59.608	5069.294	24.173	2.98104
-59.608	5069.294	28.354	2.86725
-59.608	5069.294	32.536	2.80793
-59.608	5069.294	36.718	2.73666
-59.608	5069.294	40.899	2.75289
-59.608	5069.294	45.081	3.62767
-59.608	5069.294	49.262	3.44844
-59.608	5069.294	53.444	6.04845
-59.608	5069.294	57.625	7.40014
-59.608	5072.614	18.978	6.29983
-59.608	5072.614	22.932	3.58623
-59.608	5072.614	26.886	3.09251
-59.608	5072.614	30.841	2.92077
-59.608	5072.614	34.795	2.80929
-59.608	5072.614	38.749	2.72769
-59.608	5072.614	42.703	2.73970
-59.608	5072.614	46.657	2.94082
-59.608	5072.614	50.611	3.86532
-59.608	5072.614	54.565	3.13885
-59.608	5072.614	58.519	6.73308
-59.608	5075.934	22.163	7.14604
-59.608	5075.934	25.904	3.84796
-59.608	5075.934	29.645	3.22675
-59.608	5075.934	33.387	2.99650
-59.608	5075.934	37.128	2.82742
-59.608	5075.934	40.869	2.73897
-59.608	5075.934	44.610	2.74429
-59.608	5075.934	48.351	2.78539
-59.608	5075.934	52.093	3.70214
-59.608	5075.934	55.834	3.39755
-59.608	5075.934	59.575	5.64220
-59.608	5079.254	25.360	8.03812
-59.608	5079.254	28.903	4.12951
-59.608	5079.254	32.445	3.37942
-59.608	5079.254	35.988	3.09304
-59.608	5079.254	39.530	2.86336
-59.608	5079.254	43.072	2.76695
-59.608	5079.254	46.615	2.76398
-59.608	5079.254	50.157	2.79765
-59.608	5079.254	53.700	3.29959
-59.608	5079.254	57.242	3.82481
-59.608	5079.254	60.785	3.12430
-59.608	5082.574	28.568	8.98091
-59.608	5082.574	31.925	4.42950
-59.608	5082.574	35.283	3.54783
-59.608	5082.574	38.640	3.19880

-59.608	5082.574	41.997	2.91430
-59.608	5082.574	45.354	2.80965
-59.608	5082.574	48.711	2.79655
-59.608	5082.574	52.069	2.82202
-59.608	5082.574	55.426	2.83233
-59.608	5082.574	58.783	3.69453
-59.608	5082.574	62.140	3.44031
-59.608	5085.894	31.785	9.97858
-59.608	5085.894	34.970	4.74724
-59.608	5085.894	38.155	3.73020
-59.608	5085.894	41.340	3.30954
-59.608	5085.894	44.525	2.97517
-59.608	5085.894	47.709	2.86471
-59.608	5085.894	50.894	2.84037
-59.608	5085.894	54.079	2.85708
-59.608	5085.894	57.264	2.85553
-59.608	5085.894	60.449	3.35420
-59.608	5085.894	63.633	3.79301
-59.608	5089.214	35.011	11.03470
-59.608	5089.214	38.035	5.08239
-59.608	5089.214	41.060	3.92534
-59.608	5089.214	44.084	3.42721
-59.608	5089.214	47.109	3.05108
-59.608	5089.214	50.133	2.93027
-59.608	5089.214	53.158	2.89378
-59.608	5089.214	56.182	2.90162
-59.608	5089.214	59.207	2.88839
-59.608	5089.214	62.231	2.84759
-59.608	5089.214	65.256	3.67445
-59.608	5092.535	38.243	12.15270
-59.608	5092.535	41.119	5.43482
-59.608	5092.535	43.994	4.13240
-59.608	5092.535	46.870	3.55117
-59.608	5092.535	49.745	3.14177
-59.608	5092.535	52.621	3.00515
-59.608	5092.535	55.496	2.95590
-59.608	5092.535	58.372	2.95464
-59.608	5092.535	61.247	2.93000
-59.608	5092.535	64.123	2.87888
-59.608	5092.535	66.998	3.33039
-59.608	5095.855	41.482	13.33520
-59.608	5095.855	44.219	5.80452
-59.608	5095.855	46.956	4.35073
-59.608	5095.855	49.693	3.67598
-59.608	5095.855	52.430	3.24102
-59.608	5095.855	55.167	3.08808
-59.608	5095.855	57.904	3.02578
-59.608	5095.855	60.641	3.01522
-59.608	5095.855	63.378	2.97949
-59.608	5095.855	66.115	2.91789
-59.608	5095.855	68.852	2.86866
-59.608	5099.175	44.727	14.58500
-59.608	5099.175	47.336	6.19154
-59.608	5099.175	49.944	4.57991

-59.608	5099.175	52.552	3.80708
-59.608	5099.175	55.160	3.34753
-59.608	5099.175	57.769	3.17799
-59.608	5099.175	60.377	3.10241
-59.608	5099.175	62.985	3.08262
-59.608	5099.175	65.593	3.03621
-59.608	5099.175	68.202	2.96394
-59.608	5099.175	70.810	2.90626
-59.608	5102.495	47.978	15.90450
-59.608	5102.495	50.467	6.59597
-59.608	5102.495	52.955	4.81955
-59.608	5102.495	55.444	3.94596
-59.608	5102.495	57.932	3.46064
-59.608	5102.495	60.421	3.27415
-59.608	5102.495	62.909	3.18523
-59.608	5102.495	65.398	3.15614
-59.608	5102.495	67.886	3.09954
-59.608	5102.495	70.375	3.01641
-59.608	5102.495	72.863	2.95013
-59.608	5105.815	51.234	17.29730
-59.608	5105.815	53.611	7.01795
-59.608	5105.815	55.988	5.06940
-59.608	5105.815	58.365	4.09159
-59.608	5105.815	60.742	3.57976
-59.608	5105.815	63.119	3.37596
-59.608	5105.815	65.496	3.27373
-59.608	5105.815	67.873	3.23520
-59.608	5105.815	70.250	3.16896
-59.608	5105.815	72.627	3.07480
-59.608	5105.815	75.004	2.99973
-59.608	5109.135	54.494	18.77220
-59.608	5109.135	56.767	7.45755
-59.608	5109.135	59.041	5.32925
-59.608	5109.135	61.314	4.24318
-59.608	5109.135	63.587	3.70364
-59.608	5109.135	65.861	3.48295
-59.608	5109.135	68.134	3.36740
-59.608	5109.135	70.407	3.31928
-59.608	5109.135	72.680	3.24396
-59.608	5109.135	74.954	3.13862
-59.608	5109.135	77.227	3.05462
-59.608	5112.455	57.758	20.32360
-59.608	5112.455	59.935	7.91503
-59.608	5112.455	62.112	5.59889
-59.608	5112.455	64.288	4.39897
-59.608	5112.455	66.465	3.83235
-59.608	5112.455	68.641	3.59470
-59.608	5112.455	70.818	3.46580
-59.608	5112.455	72.994	3.40786
-59.608	5112.455	75.171	3.32410
-59.608	5112.455	77.348	3.20742
-59.608	5112.455	79.524	3.11436
-59.608	5115.775	61.027	21.95330
-59.608	5115.775	63.113	8.39045

-59.608	5115.775	65.199	5.87826
-59.608	5115.775	67.286	4.55407
-59.608	5115.775	69.372	3.96582
-59.608	5115.775	71.458	3.71081
-59.608	5115.775	73.545	3.56853
-59.608	5115.775	75.631	3.50066
-59.608	5115.775	77.717	3.40902
-59.608	5115.775	79.803	3.28085
-59.608	5115.775	81.890	3.17853
-59.608	5119.095	64.298	23.66330
-59.608	5119.095	66.300	8.88399
-59.608	5119.095	68.302	6.16722
-59.608	5119.095	70.304	4.71592
-59.608	5119.095	72.306	4.10371
-59.608	5119.095	74.308	3.83097
-59.608	5119.095	76.310	3.67529
-59.608	5119.095	78.312	3.59725
-59.608	5119.095	80.314	3.49841
-59.608	5119.095	82.316	3.35854
-59.608	5119.095	84.318	3.24686
-59.608	5122.415	67.573	25.45540
-59.608	5122.415	69.496	9.39589
-59.608	5122.415	71.420	6.46568
-59.608	5122.415	73.343	4.88381
-59.608	5122.415	75.266	4.24576
-59.608	5122.415	77.189	3.95493
-59.608	5122.415	79.112	3.78579
-59.608	5122.415	81.035	3.69752
-59.608	5122.415	82.959	3.59202
-59.608	5122.415	84.882	3.44023
-59.608	5122.415	86.805	3.31904
-59.608	5125.735	70.851	27.33130
-59.608	5125.735	72.700	9.92631
-59.608	5125.735	74.550	6.77364
-59.608	5125.735	76.399	5.05723
-59.608	5125.735	78.248	4.39166
-59.608	5125.735	80.098	4.08239
-59.608	5125.735	81.947	3.89976
-59.608	5125.735	83.797	3.80125
-59.608	5125.735	85.646	3.68963
-59.608	5125.735	87.495	3.52570
-59.608	5125.735	89.345	3.39480
-59.608	5129.055	74.131	29.29250
-59.608	5129.055	75.912	10.47540
-59.608	5129.055	77.692	344.97000
-59.608	5129.055	79.472	5.23575
-59.608	5129.055	81.252	4.54122
-59.608	5129.055	83.032	4.21315
-59.608	5129.055	84.813	4.01703
-59.608	5129.055	86.593	3.90804
-59.608	5129.055	88.373	3.79099
-59.608	5129.055	90.153	3.61468
-59.608	5129.055	91.933	3.47393

Raw Data for Minimum Circle Results

Center_x	Center_y	Radius	Factor_of_Safety
-126.008	5062.654	42.840	-1000.00000
-126.008	5065.974	46.074	-1000.00000
-126.008	5069.294	49.320	-1000.00000
-126.008	5072.614	52.576	-1000.00000
-126.008	5075.934	55.839	-1000.00000
-126.008	5079.254	59.108	-1000.00000
-126.008	5082.574	62.383	-1000.00000
-126.008	5085.894	65.662	-1000.00000
-126.008	5089.214	68.945	-1000.00000
-126.008	5092.535	72.231	-1000.00000
-126.008	5095.855	75.521	-1000.00000
-126.008	5099.175	78.813	-1000.00000
-126.008	5102.495	82.061	2.62665
-126.008	5105.815	85.310	1.55278
-126.008	5109.135	88.560	1.27375
-126.008	5112.455	91.812	1.16969
-126.008	5115.775	95.066	1.12416
-126.008	5119.095	98.320	1.10583
-126.008	5122.415	101.576	1.10197
-126.008	5125.735	104.833	1.10671
-126.008	5129.055	108.093	1.11681
-122.688	5062.654	42.188	-1000.00000
-122.688	5065.974	45.469	-1000.00000
-122.688	5069.294	48.755	-1000.00000
-122.688	5072.614	52.046	-1000.00000
-122.688	5075.934	55.340	-1000.00000
-122.688	5079.254	58.637	-1000.00000
-122.688	5082.574	61.937	-1000.00000
-122.688	5085.894	65.238	-1000.00000
-122.688	5089.214	68.542	-1000.00000
-122.688	5092.535	71.844	38.54420
-122.688	5095.855	75.102	2.45127
-122.688	5099.175	78.362	1.53069
-122.688	5102.495	81.622	1.24125
-122.688	5105.815	84.883	1.13688
-122.688	5109.135	88.145	1.09421
-122.688	5112.455	91.408	1.07876
-122.688	5115.775	94.671	1.07753
-122.688	5119.095	97.935	1.08464
-122.688	5122.415	101.200	1.09694
-122.688	5125.735	104.468	1.11245
-122.688	5129.055	107.738	1.13015
-119.368	5062.654	41.790	-1000.00000
-119.368	5065.974	45.100	-1000.00000
-119.368	5069.294	48.412	-1000.00000
-119.368	5072.614	51.724	-1000.00000
-119.368	5075.934	55.038	-1000.00000
-119.368	5079.254	58.352	-1000.00000
-119.368	5082.574	61.666	-1000.00000
-119.368	5085.894	64.970	8.79444
-119.368	5089.214	68.238	2.16585
-119.368	5092.535	71.506	1.47802
-119.368	5095.855	74.774	1.20248

-119.368	5099.175	78.042	1.10270
-119.368	5102.495	81.311	1.06402
-119.368	5105.815	84.579	1.05193
-119.368	5109.135	87.848	1.05359
-119.368	5112.455	91.118	1.06321
-119.368	5115.775	94.387	1.07775
-119.368	5119.095	97.657	1.09532
-119.368	5122.415	100.929	1.11489
-119.368	5125.735	104.205	1.13583
-119.368	5129.055	107.483	1.15770
-116.048	5062.654	41.654	-1000.00000
-116.048	5065.974	44.974	-1000.00000
-116.048	5069.294	48.294	-1000.00000
-116.048	5072.614	51.614	-1000.00000
-116.048	5075.934	54.934	-1000.00000
-116.048	5079.254	58.227	4.03706
-116.048	5082.574	61.499	1.84460
-116.048	5085.894	64.770	1.37597
-116.048	5089.214	68.041	1.15985
-116.048	5092.535	71.313	1.06823
-116.048	5095.855	74.584	1.03462
-116.048	5099.175	77.856	1.02627
-116.048	5102.495	81.127	1.03096
-116.048	5105.815	84.399	1.04315
-116.048	5109.135	87.670	1.05995
-116.048	5112.455	90.941	1.07955
-116.048	5115.775	94.213	1.09944
-116.048	5119.095	97.488	1.12014
-116.048	5122.415	100.765	1.14229
-116.048	5125.735	104.045	1.16548
-116.048	5129.055	107.328	1.18942
-112.728	5062.654	41.661	-108.00000
-112.728	5065.974	44.980	-108.00000
-112.728	5069.294	48.399	23.23410
-112.728	5072.614	51.665	2.39117
-112.728	5075.934	54.931	1.55164
-112.728	5079.254	58.197	1.26416
-112.728	5082.574	61.464	1.11554
-112.728	5085.894	64.731	1.03543
-112.728	5089.214	67.999	1.00494
-112.728	5092.535	71.267	0.99840
-112.728	5095.855	74.535	1.00180
-112.728	5099.175	77.803	1.01466
-112.728	5102.495	81.072	1.03497
-112.728	5105.815	84.341	1.05692
-112.728	5109.135	87.610	1.08090
-112.728	5112.455	90.880	1.10613
-112.728	5115.775	94.153	1.13229
-112.728	5119.095	97.429	1.15899
-112.728	5122.415	100.708	1.18610
-112.728	5125.735	103.989	1.21361
-112.728	5129.055	105.777	1.24036
-109.408	5062.654	42.128	2.70495
-109.408	5065.974	45.363	1.65328

-109.408	5069.294	48.604	1.30150
-109.408	5072.614	51.848	1.13405
-109.408	5075.934	55.095	1.04404
-109.408	5079.254	58.346	0.98747
-109.408	5082.574	61.598	0.96748
-109.408	5085.894	64.853	0.96988
-109.408	5089.214	68.109	0.98501
-109.408	5092.535	71.366	1.00212
-109.408	5095.855	73.690	1.02090
-109.408	5099.175	76.863	1.04562
-109.408	5102.495	80.037	1.07005
-109.408	5105.815	83.212	1.09568
-109.408	5109.135	86.389	1.12211
-109.408	5112.455	89.575	1.14906
-109.408	5115.775	92.770	1.17632
-109.408	5119.095	95.975	1.20377
-109.408	5122.415	99.187	1.23131
-109.408	5125.735	102.407	1.25884
-109.408	5129.055	105.634	1.28633
-106.088	5062.654	42.623	1.09556
-106.088	5065.974	45.815	1.03831
-106.088	5069.294	49.017	1.00046
-106.088	5072.614	52.228	0.97151
-106.088	5075.934	55.446	0.96253
-106.088	5079.254	57.912	0.96658
-106.088	5082.574	60.216	0.98047
-106.088	5085.894	63.282	0.99293
-106.088	5089.214	66.350	1.01047
-106.088	5092.535	69.421	1.03483
-106.088	5095.855	72.495	1.06078
-106.088	5099.175	75.570	1.08893
-106.088	5102.495	77.297	1.11661
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-106.088	5109.135	83.311	1.17179
-106.088	5112.455	86.352	1.20036
-106.088	5115.775	89.414	1.22937
-106.088	5119.095	92.495	1.25867
-106.088	5122.415	97.366	1.28810
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-106.088	5129.055	103.712	1.34658
-102.768	5062.654	42.708	1.00344
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-102.768	5069.294	48.843	0.98255
-102.768	5072.614	51.062	0.97622
-102.768	5075.934	53.135	0.97539
-102.768	5079.254	56.085	0.98664
-102.768	5082.574	59.040	1.00145
-102.768	5085.894	62.001	1.02570
-102.768	5089.214	63.696	1.05356
-102.768	5092.535	66.583	1.07798
-102.768	5095.855	69.473	1.10445
-102.768	5099.175	72.366	1.13245
-102.768	5102.495	75.265	1.16162
-102.768	5105.815	78.194	1.19170

-102.768	5109.135	81.155	1.22248
-102.768	5112.455	84.145	1.25376
-102.768	5115.775	89.034	1.28453
-102.768	5119.095	92.128	1.31532
-102.768	5122.415	95.239	1.34617
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-102.768	5129.055	103.573	1.40683
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-99.448	5065.974	43.274	1.00203
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-99.448	5072.614	48.904	0.98774
-99.448	5075.934	51.737	0.99811
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-99.448	5082.574	56.041	1.04278
-99.448	5085.894	58.820	1.06563
-99.448	5089.214	61.605	1.09166
-99.448	5092.535	64.394	1.12004
-99.448	5095.855	67.187	1.15021
-99.448	5099.175	69.988	1.18183
-99.448	5102.495	72.830	1.21459
-99.448	5105.815	77.640	1.24726
-99.448	5109.135	80.622	1.27999
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-99.448	5115.775	86.667	1.34639
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-99.448	5129.055	103.533	1.46323
-96.128	5062.654	39.020	1.02583
-96.128	5065.974	41.702	1.00211
-96.128	5069.294	44.403	1.00170
-96.128	5072.614	47.119	1.01833
-96.128	5075.934	49.848	1.03657
-96.128	5079.254	50.975	1.05564
-96.128	5082.574	53.652	1.07954
-96.128	5085.894	56.336	1.10719
-96.128	5089.214	59.025	1.13789
-96.128	5092.535	61.720	1.17095
-96.128	5095.855	66.411	1.20495
-96.128	5099.175	69.237	1.23915
-96.128	5102.495	72.110	1.27431
-96.128	5105.815	75.023	1.31018
-96.128	5109.135	77.972	1.34658
-96.128	5112.455	83.227	1.38130
-96.128	5115.775	86.279	1.41589
-96.128	5119.095	89.352	1.45053
-96.128	5122.415	97.230	1.47647
-96.128	5125.735	100.405	1.50318
-96.128	5129.055	103.591	1.53153
-92.808	5062.654	36.976	1.03773
-92.808	5065.974	39.561	1.03113
-92.808	5069.294	42.164	1.03676
-92.808	5072.614	44.784	1.05116
-92.808	5075.934	47.417	1.07192

-92.808	5079.254	48.134	1.09696
-92.808	5082.574	52.716	1.12660
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-92.808	5089.214	58.050	1.19299
-92.808	5092.535	60.734	1.22936
-92.808	5095.855	63.475	1.26746
-92.808	5099.175	66.275	1.30690
-92.808	5102.495	71.506	1.34591
-92.808	5105.815	74.448	1.38276
-92.808	5109.135	77.423	1.42086
-92.808	5112.455	80.429	1.45923
-92.808	5115.775	88.541	1.49292
-92.808	5119.095	91.659	1.52010
-92.808	5122.415	94.792	1.55074
-92.808	5125.735	97.940	1.58181
-92.808	5129.055	101.099	1.61298
-89.488	5062.654	34.291	1.05964
-89.488	5065.974	36.794	1.05749
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-89.488	5072.614	41.848	1.08704
-89.488	5075.934	44.396	1.11297
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-89.488	5085.894	52.098	1.21822
-89.488	5089.214	54.690	1.26013
-89.488	5092.535	59.860	1.30214
-89.488	5095.855	62.647	1.34304
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-89.488	5102.495	68.381	1.42700
-89.488	5105.815	73.991	1.46807
-89.488	5109.135	76.991	1.50772
-89.488	5112.455	85.492	1.54121
-89.488	5115.775	88.596	1.57288
-89.488	5119.095	91.717	1.60473
-89.488	5122.415	94.853	1.63751
-89.488	5125.735	98.002	1.67124
-89.488	5129.055	101.164	1.70529
-86.168	5062.654	33.290	1.09202
-86.168	5065.974	33.351	1.09368
-86.168	5069.294	35.802	1.10865
-86.168	5072.614	38.265	1.13451
-86.168	5075.934	40.739	1.16866
-86.168	5079.254	43.222	1.20952
-86.168	5082.574	48.367	1.25043
-86.168	5085.894	50.934	1.29341
-86.168	5089.214	53.582	1.33941
-86.168	5092.535	56.310	1.38661
-86.168	5095.855	61.948	1.43261
-86.168	5099.175	64.833	1.47704
-86.168	5102.495	67.763	1.52219
-86.168	5105.815	76.582	1.56649
-86.168	5109.135	79.626	1.59732
-86.168	5112.455	82.693	1.62904
-86.168	5115.775	85.782	1.66381

-86.168	5119.095	88.889	1.69843
-86.168	5122.415	92.012	1.73378
-86.168	5125.735	95.150	1.77015
-86.168	5129.055	98.013	1.80744
-82.848	5062.654	29.567	1.12273
-82.848	5065.974	31.981	1.13515
-82.848	5069.294	34.411	1.16002
-82.848	5072.614	36.855	1.19423
-82.848	5075.934	39.311	1.23589
-82.848	5079.254	41.778	1.28398
-82.848	5082.574	44.266	1.33690
-82.848	5085.894	49.895	1.38662
-82.848	5089.214	52.614	1.43659
-82.848	5092.535	55.406	1.48861
-82.848	5095.855	61.386	1.53968
-82.848	5099.175	64.312	1.58628
-82.848	5102.495	73.594	1.62919
-82.848	5105.815	76.621	1.66371
-82.848	5109.135	79.673	1.69853
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-82.848	5115.775	85.844	1.77169
-82.848	5119.095	88.511	1.80888
-82.848	5122.415	90.983	1.84730
-82.848	5125.735	93.501	1.88749
-82.848	5129.055	98.923	1.92633
-79.528	5062.654	25.080	1.18195
-79.528	5065.974	27.454	1.20005
-79.528	5069.294	29.839	1.23835
-79.528	5072.614	35.474	1.27997
-79.528	5075.934	37.912	1.32864
-79.528	5079.254	40.376	1.38280
-79.528	5082.574	42.954	1.44364
-79.528	5085.894	49.007	1.50280
-79.528	5089.214	51.797	1.55677
-79.528	5092.535	54.654	1.61252
-79.528	5095.855	60.968	1.66542
-79.528	5099.175	67.339	1.70690
-79.528	5102.495	70.342	1.74088
-79.528	5105.815	73.375	1.77708
-79.528	5109.135	75.899	1.81807
-79.528	5112.455	81.585	1.85639
-79.528	5115.775	84.011	1.89580
-79.528	5119.095	86.488	1.93738
-79.528	5122.415	91.919	1.98072
-79.528	5125.735	94.397	2.02108
-79.528	5129.055	102.379	2.06199
-76.208	5062.654	23.375	1.23269
-76.208	5065.974	25.736	1.26801
-76.208	5069.294	28.108	1.32081
-76.208	5072.614	30.491	1.38993
-76.208	5075.934	36.557	1.44992
-76.208	5079.254	39.125	1.51306
-76.208	5082.574	41.816	1.58144
-76.208	5085.894	48.287	1.64537

-76.208	5089.214	51.148	1.70299
-76.208	5092.535	61.423	1.76066
-76.208	5095.855	64.345	1.79371
-76.208	5099.175	66.649	1.83129
-76.208	5102.495	69.019	1.87242
-76.208	5105.815	74.738	1.91593
-76.208	5109.135	77.111	1.95597
-76.208	5112.455	79.540	1.99872
-76.208	5115.775	82.021	2.04398
-76.208	5119.095	87.411	2.08874
-76.208	5122.415	95.424	2.13083
-76.208	5125.735	97.772	2.16808
-76.208	5129.055	102.763	2.18514
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-69.568	5075.934	34.262	1.82486
-69.568	5079.254	36.724	1.90720
-69.568	5082.574	43.255	1.97082
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-69.568	5089.214	55.566	2.04153
-69.568	5092.535	57.873	2.08383
-69.568	5095.855	60.250	2.13124
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-69.568	5102.495	68.277	2.22266
-69.568	5105.815	70.708	2.27384
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-69.568	5112.455	83.968	2.35615
-69.568	5115.775	88.893	2.37048
-69.568	5119.095	91.140	2.40953
-69.568	5122.415	93.450	2.45135
-69.568	5125.735	95.817	2.49575

-69.568	5129.055	98.239	2.54253
-66.248	5062.654	18.337	1.73130
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-66.248	5072.614	29.859	2.02831
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-66.248	5079.254	46.910	2.15203
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-66.248	5085.894	51.280	2.21745
-66.248	5089.214	53.586	2.26155
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-66.248	5102.495	75.079	2.44813
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-62.928	5065.974	23.104	2.27022
-62.928	5069.294	25.568	2.34542
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-62.928	5112.455	81.856	2.78966
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-62.928	5119.095	86.525	2.89795
-62.928	5122.415	88.952	2.95734
-62.928	5125.735	91.434	3.01987
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-59.608	5062.654	32.958	2.85108
-59.608	5065.974	34.783	2.77771
-59.608	5069.294	36.718	2.73666
-59.608	5072.614	38.749	2.72769
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-59.608	5079.254	46.615	2.76398
-59.608	5082.574	48.711	2.79655
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-59.608	5112.455	79.524	3.11436
-59.608	5115.775	81.890	3.17853
-59.608	5119.095	84.318	3.24686
-59.608	5122.415	86.805	3.31904
-59.608	5125.735	89.345	3.39480
-59.608	5129.055	91.933	3.47393

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Project Title: SLIDE - An Interactive Slope Stability Program

Analysis Method: bishop simplified

Raw Data for All Circle Results

Center_x	Center_y	Radius	Factor_of_Safety
87.353	5055.958	14.179	2.85391
87.353	5055.958	17.376	1.50501
87.353	5055.958	20.573	1.71463
87.353	5055.958	23.771	1.99870
87.353	5055.958	26.968	2.14505
87.353	5055.958	30.165	2.08099
87.353	5055.958	33.362	4.68570
87.353	5055.958	36.559	7.32767
87.353	5055.958	39.756	8.39943
87.353	5055.958	42.953	9.06367
87.353	5055.958	46.150	9.59325
87.353	5058.126	15.704	2.83387
87.353	5058.126	18.887	1.47508
87.353	5058.126	22.070	1.67156
87.353	5058.126	25.252	1.96373
87.353	5058.126	28.435	2.15387
87.353	5058.126	31.617	2.18805
87.353	5058.126	34.800	1.99038
87.353	5058.126	37.982	6.91387
87.353	5058.126	41.165	8.16371
87.353	5058.126	44.347	8.89072
87.353	5058.126	47.530	9.39579
87.353	5060.295	17.233	2.81616
87.353	5060.295	20.406	1.53715
87.353	5060.295	23.578	1.64107
87.353	5060.295	26.751	1.94022
87.353	5060.295	29.924	2.16662
87.353	5060.295	33.097	2.20822
87.353	5060.295	36.270	2.03313
87.353	5060.295	39.443	6.47124
87.353	5060.295	42.616	7.92769
87.353	5060.295	45.789	8.73621
87.353	5060.295	48.962	9.27301
87.353	5062.464	18.763	2.72996
87.353	5062.464	21.931	1.60643
87.353	5062.464	25.099	1.62044
87.353	5062.464	28.267	1.92433
87.353	5062.464	31.435	2.17815
87.353	5062.464	34.603	2.23372
87.353	5062.464	37.771	2.08561
87.353	5062.464	40.939	5.96054
87.353	5062.464	44.107	7.70733
87.353	5062.464	47.275	8.58846
87.353	5062.464	50.443	9.16762
87.353	5064.632	20.296	2.73192
87.353	5064.632	23.463	1.70693

87.353	5064.632	26.631	1.60489
87.353	5064.632	29.798	1.91359
87.353	5064.632	32.965	2.17767
87.353	5064.632	36.132	2.26402
87.353	5064.632	39.300	2.14781
87.353	5064.632	42.467	5.31992
87.353	5064.632	45.634	7.47944
87.353	5064.632	48.802	8.46049
87.353	5064.632	51.969	9.07781
87.353	5066.801	21.831	2.82075
87.353	5066.801	25.002	1.82390
87.353	5066.801	28.172	1.59649
87.353	5066.801	31.342	1.90595
87.353	5066.801	34.513	2.17877
87.353	5066.801	37.683	2.29864
87.353	5066.801	40.854	2.22780
87.353	5066.801	44.024	4.40827
87.353	5066.801	47.194	7.24370
87.353	5066.801	50.365	8.33970
87.353	5066.801	53.535	8.99323
87.353	5068.970	23.368	2.98486
87.353	5068.970	26.545	1.89994
87.353	5068.970	29.722	1.60180
87.353	5068.970	32.900	1.89998
87.353	5068.970	36.077	2.18378
87.353	5068.970	39.254	2.33662
87.353	5068.970	42.431	2.34109
87.353	5068.970	45.608	2.11376
87.353	5068.970	48.785	6.98849
87.353	5068.970	51.962	8.22341
87.353	5068.970	55.139	8.92533
87.353	5071.138	24.907	3.22829
87.353	5071.138	28.094	1.99016
87.353	5071.138	31.281	1.67070
87.353	5071.138	34.468	1.89538
87.353	5071.138	37.655	2.19148
87.353	5071.138	40.842	2.37461
87.353	5071.138	44.029	2.38099
87.353	5071.138	47.216	2.16846
87.353	5071.138	50.403	6.70213
87.353	5071.138	53.590	8.10647
87.353	5071.138	56.777	8.86657
87.353	5073.307	26.476	3.53116
87.353	5073.307	29.674	2.09184
87.353	5073.307	32.871	1.75466
87.353	5073.307	36.068	1.89146
87.353	5073.307	39.265	2.20220
87.353	5073.307	42.462	2.41050
87.353	5073.307	45.660	2.42353
87.353	5073.307	48.857	2.22780
87.353	5073.307	52.054	6.37727
87.353	5073.307	55.251	7.99252
87.353	5073.307	58.449	8.81442
87.353	5075.475	28.127	3.82561

87.353	5075.475	31.329	2.19729
87.353	5075.475	34.532	1.84859
87.353	5075.475	37.735	1.89311
87.353	5075.475	40.937	2.21773
87.353	5075.475	44.140	2.44087
87.353	5075.475	47.343	2.46719
87.353	5075.475	50.545	2.29043
87.353	5075.475	53.748	6.00742
87.353	5075.475	56.951	7.88014
87.353	5075.475	60.153	8.76926
87.353	5077.644	29.846	4.11088
87.353	5077.644	33.050	2.30522
87.353	5077.644	36.254	1.95543
87.353	5077.644	39.459	1.89966
87.353	5077.644	42.663	2.23703
87.353	5077.644	45.867	2.46484
87.353	5077.644	49.071	2.51230
87.353	5077.644	52.275	2.35664
87.353	5077.644	55.480	5.57267
87.353	5077.644	58.684	7.76704
87.353	5077.644	61.888	8.72620
87.353	5079.813	31.622	4.38981
87.353	5079.813	34.825	2.41472
87.353	5079.813	38.028	2.06249
87.353	5079.813	41.231	1.91078
87.353	5079.813	44.433	2.25920
87.353	5079.813	47.636	2.49212
87.353	5079.813	50.839	2.55879
87.353	5079.813	54.042	2.42802
87.353	5079.813	57.245	5.03834
87.353	5079.813	60.447	7.65129
87.353	5079.813	63.650	8.68939
87.353	5081.981	33.446	4.66496
87.353	5081.981	36.645	2.52471
87.353	5081.981	39.844	2.13500
87.353	5081.981	43.044	1.92673
87.353	5081.981	46.243	2.28348
87.353	5081.981	49.442	2.52208
87.353	5081.981	52.641	2.60626
87.353	5081.981	55.840	2.51282
87.353	5081.981	59.039	4.31021
87.353	5081.981	62.238	7.53286
87.353	5081.981	65.437	8.65561
87.353	5084.150	35.310	4.93818
87.353	5084.150	38.504	2.63555
87.353	5084.150	41.698	2.20876
87.353	5084.150	44.891	1.94888
87.353	5084.150	48.085	2.30994
87.353	5084.150	51.279	2.55416
87.353	5084.150	54.473	2.65441
87.353	5084.150	57.666	2.60961
87.353	5084.150	60.860	2.33257
87.353	5084.150	64.054	7.40967
87.353	5084.150	67.248	8.62412

87.353	5086.318	37.207	5.21064
87.353	5086.318	40.395	2.74700
87.353	5086.318	43.582	2.28344
87.353	5086.318	46.769	1.98177
87.353	5086.318	49.956	2.33673
87.353	5086.318	53.143	2.58800
87.353	5086.318	56.330	2.70266
87.353	5086.318	59.517	2.65414
87.353	5086.318	62.705	2.36664
87.353	5086.318	65.892	7.28008
87.353	5086.318	69.079	8.59425
87.353	5088.487	39.134	5.48303
87.353	5088.487	42.313	2.85884
87.353	5088.487	45.493	2.35879
87.353	5088.487	48.672	2.05047
87.353	5088.487	51.852	2.36420
87.353	5088.487	55.031	2.62319
87.353	5088.487	58.211	2.75032
87.353	5088.487	61.391	2.69906
87.353	5088.487	64.570	2.41640
87.353	5088.487	67.750	7.14209
87.353	5088.487	70.929	8.56472
87.353	5090.656	41.084	5.75535
87.353	5090.656	44.255	2.97136
87.353	5090.656	47.427	2.43460
87.353	5090.656	50.598	2.11473
87.353	5090.656	53.769	2.39201
87.353	5090.656	56.941	2.65949
87.353	5090.656	60.112	2.79722
87.353	5090.656	63.283	2.74450
87.353	5090.656	66.455	2.46793
87.353	5090.656	69.626	6.99471
87.353	5090.656	72.797	8.53650
87.353	5092.824	43.056	6.02785
87.353	5092.824	46.218	3.08351
87.353	5092.824	49.381	2.51070
87.353	5092.824	52.544	2.17991
87.353	5092.824	55.706	2.41991
87.353	5092.824	58.869	2.69683
87.353	5092.824	62.031	2.84329
87.353	5092.824	65.194	2.79011
87.353	5092.824	68.357	2.52071
87.353	5092.824	71.519	6.83617
87.353	5092.824	74.682	8.50860
87.353	5094.993	45.046	6.30079
87.353	5094.993	48.199	3.19569
87.353	5094.993	51.353	2.58698
87.353	5094.993	54.506	2.24597
87.353	5094.993	57.660	2.44767
87.353	5094.993	60.814	2.73473
87.353	5094.993	63.967	2.88814
87.353	5094.993	67.121	2.83563
87.353	5094.993	70.274	2.57414
87.353	5094.993	73.428	6.66334

87.353	5094.993	76.582	8.48053
87.353	5097.161	47.051	6.57412
87.353	5097.161	50.196	3.30781
87.353	5097.161	53.340	2.66331
87.353	5097.161	56.484	2.31283
87.353	5097.161	59.629	2.47523
87.353	5097.161	62.773	2.77303
87.353	5097.161	65.918	2.93146
87.353	5097.161	69.062	2.88106
87.353	5097.161	72.206	2.62839
87.353	5097.161	75.351	6.47302
87.353	5097.161	78.495	8.45184
87.353	5099.330	49.071	6.84776
87.353	5099.330	52.206	3.41979
87.353	5099.330	55.341	2.73964
87.353	5099.330	58.476	2.38056
87.353	5099.330	61.611	2.50284
87.353	5099.330	64.746	2.81161
87.353	5099.330	67.881	2.97232
87.353	5099.330	71.017	2.92624
87.353	5099.330	74.152	2.68317
87.353	5099.330	77.287	6.26093
87.353	5099.330	80.422	8.42219
89.522	5055.958	15.552	2.87070
89.522	5055.958	18.459	1.51178
89.522	5055.958	21.367	1.61739
89.522	5055.958	24.274	1.83694
89.522	5055.958	27.182	1.95120
89.522	5055.958	30.089	1.93511
89.522	5055.958	32.997	3.92193
89.522	5055.958	35.905	7.08351
89.522	5055.958	38.812	8.23619
89.522	5055.958	41.720	8.91629
89.522	5055.958	44.627	9.44094
89.522	5058.126	17.080	3.00199
89.522	5058.126	19.977	1.46945
89.522	5058.126	22.874	1.57771
89.522	5058.126	25.772	1.80629
89.522	5058.126	28.669	1.96269
89.522	5058.126	31.566	1.99892
89.522	5058.126	34.463	1.90155
89.522	5058.126	37.361	6.61502
89.522	5058.126	40.258	7.95931
89.522	5058.126	43.155	8.72631
89.522	5058.126	46.053	9.24303
89.522	5060.295	18.610	2.98662
89.522	5060.295	21.502	1.46428
89.522	5060.295	24.394	1.55138
89.522	5060.295	27.286	1.78643
89.522	5060.295	30.178	1.97985
89.522	5060.295	33.070	2.02168
89.522	5060.295	35.962	1.93985
89.522	5060.295	38.854	6.08190
89.522	5060.295	41.746	7.70619

89.522	5060.295	44.638	8.55685
89.522	5060.295	47.530	9.11283
89.522	5062.464	20.143	2.97093
89.522	5062.464	23.034	1.52529
89.522	5062.464	25.925	1.53634
89.522	5062.464	28.817	1.77391
89.522	5062.464	31.708	1.99582
89.522	5062.464	34.599	2.04983
89.522	5062.464	37.490	1.98591
89.522	5062.464	40.382	5.43693
89.522	5062.464	43.273	7.45242
89.522	5062.464	46.164	8.39279
89.522	5062.464	49.055	9.00079
89.522	5064.632	21.678	2.86567
89.522	5064.632	24.573	1.60730
89.522	5064.632	27.467	1.52746
89.522	5064.632	30.362	1.76703
89.522	5064.632	33.256	1.99960
89.522	5064.632	36.151	2.08085
89.522	5064.632	39.045	2.03937
89.522	5064.632	41.940	4.54970
89.522	5064.632	44.835	7.18557
89.522	5064.632	47.729	8.24941
89.522	5064.632	50.624	8.89485
89.522	5066.801	23.215	2.86713
89.522	5066.801	26.117	1.70395
89.522	5066.801	29.019	1.52590
89.522	5066.801	31.920	1.76387
89.522	5066.801	34.822	2.00276
89.522	5066.801	37.723	2.11498
89.522	5066.801	40.625	2.10693
89.522	5066.801	43.527	2.57044
89.522	5066.801	46.428	6.90210
89.522	5066.801	49.330	8.11175
89.522	5066.801	52.232	8.81016
89.522	5068.970	24.755	2.95268
89.522	5068.970	27.667	1.82797
89.522	5068.970	30.579	1.53340
89.522	5068.970	33.491	1.76309
89.522	5068.970	36.403	2.00956
89.522	5068.970	39.315	2.15200
89.522	5068.970	42.227	2.16794
89.522	5068.970	45.139	2.04606
89.522	5068.970	48.051	6.58461
89.522	5068.970	50.963	7.97430
89.522	5068.970	53.875	8.73543
89.522	5071.138	26.296	3.11266
89.522	5071.138	29.221	1.90286
89.522	5071.138	32.147	1.55829
89.522	5071.138	35.073	1.76471
89.522	5071.138	37.998	2.01884
89.522	5071.138	40.924	2.19017
89.522	5071.138	43.850	2.20815
89.522	5071.138	46.775	2.09760

89.522	5071.138	49.701	6.21993
89.522	5071.138	52.627	7.83952
89.522	5071.138	55.552	8.66818
89.522	5073.307	27.838	3.35173
89.522	5073.307	30.780	1.99125
89.522	5073.307	33.722	1.63606
89.522	5073.307	36.664	1.76572
89.522	5073.307	39.606	2.02951
89.522	5073.307	42.549	2.22508
89.522	5073.307	45.491	2.25082
89.522	5073.307	48.433	2.15349
89.522	5073.307	51.375	5.78068
89.522	5073.307	54.317	7.70095
89.522	5073.307	57.259	8.60480
89.522	5075.475	29.407	3.64874
89.522	5075.475	32.366	2.09023
89.522	5075.475	35.325	1.72346
89.522	5075.475	38.284	1.76889
89.522	5075.475	41.242	2.04203
89.522	5075.475	44.201	2.25012
89.522	5075.475	47.160	2.29432
89.522	5075.475	50.119	2.21250
89.522	5075.475	53.077	5.22908
89.522	5075.475	56.036	7.55711
89.522	5075.475	58.995	8.54873
89.522	5077.644	31.050	3.93348
89.522	5077.644	34.021	2.19181
89.522	5077.644	36.992	1.81522
89.522	5077.644	39.963	1.77752
89.522	5077.644	42.934	2.05817
89.522	5077.644	45.905	2.27247
89.522	5077.644	48.876	2.33873
89.522	5077.644	51.847	2.27415
89.522	5077.644	54.818	4.49827
89.522	5077.644	57.789	7.41106
89.522	5077.644	60.760	8.49710
89.522	5079.813	32.756	4.20587
89.522	5079.813	35.735	2.29503
89.522	5079.813	38.715	1.91618
89.522	5079.813	41.694	1.79147
89.522	5079.813	44.674	2.07716
89.522	5079.813	47.653	2.29812
89.522	5079.813	50.633	2.38419
89.522	5079.813	53.612	2.34474
89.522	5079.813	56.592	3.19856
89.522	5079.813	59.571	7.25989
89.522	5079.813	62.551	8.44912
89.522	5081.981	34.515	4.46942
89.522	5081.981	37.500	2.39938
89.522	5081.981	40.485	2.01939
89.522	5081.981	43.470	1.81096
89.522	5081.981	46.455	2.09826
89.522	5081.981	49.441	2.32641
89.522	5081.981	52.426	2.43042

89.522	5081.981	55.411	2.40991
89.522	5081.981	58.396	2.23023
89.522	5081.981	61.381	7.10090
89.522	5081.981	64.366	8.40343
89.522	5084.150	36.320	4.72736
89.522	5084.150	39.308	2.50454
89.522	5084.150	42.296	2.08899
89.522	5084.150	45.285	1.83699
89.522	5084.150	48.273	2.12091
89.522	5084.150	51.261	2.35687
89.522	5084.150	54.250	2.47734
89.522	5084.150	57.238	2.45464
89.522	5084.150	60.227	2.27935
89.522	5084.150	63.215	6.93102
89.522	5084.150	66.203	8.35867
89.522	5086.318	38.163	4.98206
89.522	5086.318	41.153	2.60973
89.522	5086.318	44.142	2.15962
89.522	5086.318	47.132	1.87192
89.522	5086.318	50.122	2.14534
89.522	5086.318	53.112	2.38903
89.522	5086.318	56.101	2.52423
89.522	5086.318	59.091	2.49999
89.522	5086.318	62.081	2.32987
89.522	5086.318	65.071	6.74762
89.522	5086.318	68.060	8.31589
89.522	5088.487	40.040	5.23509
89.522	5088.487	43.029	2.71476
89.522	5088.487	46.019	2.23100
89.522	5088.487	49.008	1.92183
89.522	5088.487	51.998	2.17005
89.522	5088.487	54.988	2.42258
89.522	5088.487	57.977	2.57037
89.522	5088.487	60.967	2.54548
89.522	5088.487	63.957	2.38110
89.522	5088.487	66.946	6.54839
89.522	5088.487	69.936	8.27395
89.522	5090.656	41.945	5.48745
89.522	5090.656	44.933	2.82003
89.522	5090.656	47.922	2.30294
89.522	5090.656	50.910	1.99669
89.522	5090.656	53.898	2.19569
89.522	5090.656	56.887	2.45725
89.522	5090.656	59.875	2.61512
89.522	5090.656	62.863	2.59151
89.522	5090.656	65.851	2.43314
89.522	5090.656	68.840	6.32854
89.522	5090.656	71.828	8.23170
89.522	5092.824	43.875	5.73968
89.522	5092.824	46.861	2.92545
89.522	5092.824	49.847	2.37526
89.522	5092.824	52.833	2.06017
89.522	5092.824	55.819	2.22204
89.522	5092.824	58.805	2.49278

89.522	5092.824	61.791	2.65798
89.522	5092.824	64.778	2.63749
89.522	5092.824	67.764	2.48558
89.522	5092.824	70.750	6.08357
89.522	5092.824	73.736	8.18903
89.522	5094.993	45.827	5.99211
89.522	5094.993	48.810	3.03094
89.522	5094.993	51.793	2.44783
89.522	5094.993	54.776	2.12450
89.522	5094.993	57.759	2.24892
89.522	5094.993	60.742	2.52900
89.522	5094.993	63.725	2.69719
89.522	5094.993	66.708	2.68300
89.522	5094.993	69.691	2.53841
89.522	5094.993	72.675	5.80534
89.522	5094.993	75.658	8.14529
89.522	5097.161	47.798	6.24469
89.522	5097.161	50.777	3.13643
89.522	5097.161	53.757	2.52055
89.522	5097.161	56.736	2.18964
89.522	5097.161	59.716	2.27622
89.522	5097.161	62.695	2.56575
89.522	5097.161	65.675	2.73462
89.522	5097.161	68.654	2.72841
89.522	5097.161	71.634	2.59127
89.522	5097.161	74.613	5.48296
89.522	5097.161	77.593	8.10065
89.522	5099.330	49.785	6.49719
89.522	5099.330	52.760	3.24220
89.522	5099.330	55.736	2.59332
89.522	5099.330	58.711	2.25554
89.522	5099.330	61.687	2.30384
89.522	5099.330	64.662	2.60310
89.522	5099.330	67.638	2.77249
89.522	5099.330	70.613	2.77371
89.522	5099.330	73.589	2.64393
89.522	5099.330	76.564	5.09729
89.522	5099.330	79.540	8.05428
91.691	5055.958	16.927	2.86428
91.691	5055.958	19.548	1.51593
91.691	5055.958	22.170	1.54896
91.691	5055.958	24.792	1.70580
91.691	5055.958	27.413	1.78565
91.691	5055.958	30.035	1.81220
91.691	5055.958	32.657	1.80196
91.691	5055.958	35.279	6.86825
91.691	5055.958	37.900	8.12785
91.691	5055.958	40.522	8.82589
91.691	5055.958	43.144	-112.00000
91.691	5058.126	18.457	3.03669
91.691	5058.126	21.073	1.49239
91.691	5058.126	23.689	1.50760
91.691	5058.126	26.305	1.67658
91.691	5058.126	28.921	1.79775

91.691	5058.126	31.537	1.83163
91.691	5058.126	34.153	1.82559
91.691	5058.126	36.769	6.29865
91.691	5058.126	39.385	7.80670
91.691	5058.126	42.001	8.61142
91.691	5058.126	44.618	9.13636
91.691	5060.295	19.990	3.19892
91.691	5060.295	22.605	1.46563
91.691	5060.295	25.220	1.48154
91.691	5060.295	27.835	1.65853
91.691	5060.295	30.451	1.81483
91.691	5060.295	33.066	1.85599
91.691	5060.295	35.681	1.85758
91.691	5060.295	38.296	5.62526
91.691	5060.295	40.912	7.50674
91.691	5060.295	43.527	8.40614
91.691	5060.295	46.142	8.99007
91.691	5062.464	21.525	3.18204
91.691	5062.464	24.144	1.47711
91.691	5062.464	26.763	1.46835
91.691	5062.464	29.381	1.64823
91.691	5062.464	32.000	1.83419
91.691	5062.464	34.619	1.88550
91.691	5062.464	37.238	1.89527
91.691	5062.464	39.856	4.74327
91.691	5062.464	42.475	7.19601
91.691	5062.464	45.094	8.22826
91.691	5062.464	47.712	8.85500
91.691	5064.632	23.063	3.15435
91.691	5064.632	25.689	1.54010
91.691	5064.632	28.315	1.46214
91.691	5064.632	30.941	1.64369
91.691	5064.632	33.567	1.84240
91.691	5064.632	36.194	1.91757
91.691	5064.632	38.820	1.93476
91.691	5064.632	41.446	3.14513
91.691	5064.632	44.072	6.87114
91.691	5064.632	46.699	8.05948
91.691	5064.632	49.325	8.74609
91.691	5066.801	24.602	3.03390
91.691	5066.801	27.239	1.63058
91.691	5066.801	29.877	1.46377
91.691	5066.801	32.514	1.64332
91.691	5066.801	35.151	1.84703
91.691	5066.801	37.788	1.95104
91.691	5066.801	40.426	1.97289
91.691	5066.801	43.063	1.93733
91.691	5066.801	45.700	6.51313
91.691	5066.801	48.338	7.89367
91.691	5066.801	50.975	8.64960
91.691	5068.970	26.143	3.02900
91.691	5068.970	28.795	1.72425
91.691	5068.970	31.447	1.47362
91.691	5068.970	34.098	1.64595

91.691	5068.970	36.750	1.85499
91.691	5068.970	39.401	1.98667
91.691	5068.970	42.053	2.01057
91.691	5068.970	44.705	1.98087
91.691	5068.970	47.356	6.10102
91.691	5068.970	50.008	7.73200
91.691	5068.970	52.659	8.56243
91.691	5071.138	27.686	3.10900
91.691	5071.138	30.355	1.84737
91.691	5071.138	33.024	1.49456
91.691	5071.138	35.693	1.65183
91.691	5071.138	38.362	1.86527
91.691	5071.138	41.031	2.02336
91.691	5071.138	43.700	2.05071
91.691	5071.138	46.369	2.02794
91.691	5071.138	49.037	5.60578
91.691	5071.138	51.706	7.56709
91.691	5071.138	54.375	8.47999
91.691	5073.307	29.231	3.26479
91.691	5073.307	31.920	1.92312
91.691	5073.307	34.609	1.53462
91.691	5073.307	37.297	1.65774
91.691	5073.307	39.986	1.87692
91.691	5073.307	42.675	2.05765
91.691	5073.307	45.364	2.09306
91.691	5073.307	48.053	2.07757
91.691	5073.307	50.742	4.96350
91.691	5073.307	53.431	7.39377
91.691	5073.307	56.119	8.40561
91.691	5075.475	30.777	3.50124
91.691	5075.475	33.488	2.00964
91.691	5075.475	36.199	1.61854
91.691	5075.475	38.911	1.66492
91.691	5075.475	41.622	1.88910
91.691	5075.475	44.333	2.08042
91.691	5075.475	47.044	2.13589
91.691	5075.475	49.756	2.12746
91.691	5075.475	52.467	3.99735
91.691	5075.475	55.178	7.20996
91.691	5075.475	57.890	8.33553
91.691	5077.644	32.347	3.79528
91.691	5077.644	35.080	2.10619
91.691	5077.644	37.814	1.70868
91.691	5077.644	40.548	1.67492
91.691	5077.644	43.282	1.90223
91.691	5077.644	46.016	2.10096
91.691	5077.644	48.749	2.17885
91.691	5077.644	51.483	2.17501
91.691	5077.644	54.217	2.09423
91.691	5077.644	56.951	7.01218
91.691	5077.644	59.685	8.26855
91.691	5079.813	33.983	4.07310
91.691	5079.813	36.735	2.20430
91.691	5079.813	39.487	1.79863

91.691	5079.813	42.240	1.69055
91.691	5079.813	44.992	1.91827
91.691	5079.813	47.744	2.12468
91.691	5079.813	50.496	2.22273
91.691	5079.813	53.248	2.21896
91.691	5079.813	56.000	2.14040
91.691	5079.813	58.753	6.80154
91.691	5079.813	61.505	8.20425
91.691	5081.981	35.678	4.33521
91.691	5081.981	38.445	2.30325
91.691	5081.981	41.212	1.89554
91.691	5081.981	43.979	1.71203
91.691	5081.981	46.746	1.93693
91.691	5081.981	49.513	2.15107
91.691	5081.981	52.280	2.26731
91.691	5081.981	55.047	2.26309
91.691	5081.981	57.814	2.18785
91.691	5081.981	60.581	6.57401
91.691	5081.981	63.348	8.14149
91.691	5084.150	37.423	4.58592
91.691	5084.150	40.202	2.40277
91.691	5084.150	42.981	1.99258
91.691	5084.150	45.759	1.73999
91.691	5084.150	48.538	1.95861
91.691	5084.150	51.317	2.17958
91.691	5084.150	54.096	2.31216
91.691	5084.150	56.875	2.30815
91.691	5084.150	59.654	2.23648
91.691	5084.150	62.433	6.32510
91.691	5084.150	65.212	8.08008
91.691	5086.318	39.211	4.82910
91.691	5086.318	41.999	2.50267
91.691	5086.318	44.788	2.05929
91.691	5086.318	47.576	1.77580
91.691	5086.318	50.364	1.98107
91.691	5086.318	53.153	2.20984
91.691	5086.318	55.941	2.35671
91.691	5086.318	58.729	2.35370
91.691	5086.318	61.518	2.28580
91.691	5086.318	64.306	6.04860
91.691	5086.318	67.094	8.01935
91.691	5088.487	41.037	5.06769
91.691	5088.487	43.833	2.60281
91.691	5088.487	46.628	2.12681
91.691	5088.487	49.424	1.82214
91.691	5088.487	52.220	2.00495
91.691	5088.487	55.015	2.24150
91.691	5088.487	57.811	2.39962
91.691	5088.487	60.607	2.39961
91.691	5088.487	63.403	2.33544
91.691	5088.487	66.198	5.73460
91.691	5088.487	68.994	7.95845
91.691	5090.656	42.895	5.30366
91.691	5090.656	45.697	2.70312

91.691	5090.656	48.498	2.19494
91.691	5090.656	51.300	1.88491
91.691	5090.656	54.101	2.02997
91.691	5090.656	56.902	2.27429
91.691	5090.656	59.704	2.43948
91.691	5090.656	62.505	2.44573
91.691	5090.656	65.307	2.38531
91.691	5090.656	68.108	5.36896
91.691	5090.656	70.910	7.89678
91.691	5092.824	44.782	5.53828
91.691	5092.824	47.588	2.80281
91.691	5092.824	50.394	2.26351
91.691	5092.824	53.199	1.95658
91.691	5092.824	56.005	2.05593
91.691	5092.824	58.811	2.30797
91.691	5092.824	61.617	2.47512
91.691	5092.824	64.423	2.49111
91.691	5092.824	67.228	2.43461
91.691	5092.824	70.034	4.92480
91.691	5092.824	72.840	7.83392
91.691	5094.993	46.694	5.77235
91.691	5094.993	49.503	2.90203
91.691	5094.993	52.312	2.33240
91.691	5094.993	55.121	2.01905
91.691	5094.993	57.930	2.08268
91.691	5094.993	60.739	2.34237
91.691	5094.993	63.548	2.51169
91.691	5094.993	66.357	2.53641
91.691	5094.993	69.166	2.48252
91.691	5094.993	71.975	4.34246
91.691	5094.993	74.783	7.76930
91.691	5097.161	48.627	6.00633
91.691	5097.161	51.438	3.00125
91.691	5097.161	54.250	2.40149
91.691	5097.161	57.061	2.08226
91.691	5097.161	59.872	2.11010
91.691	5097.161	62.683	2.37734
91.691	5097.161	65.494	2.54881
91.691	5097.161	68.306	2.58153
91.691	5097.161	71.117	2.52879
91.691	5097.161	73.928	3.37983
91.691	5097.161	76.739	7.70284
91.691	5099.330	50.580	6.24047
91.691	5099.330	53.393	3.10043
91.691	5099.330	56.205	2.47070
91.691	5099.330	59.018	2.14619
91.691	5099.330	61.831	2.13808
91.691	5099.330	64.643	2.41271
91.691	5099.330	67.456	2.58636
91.691	5099.330	70.268	2.62639
91.691	5099.330	73.081	2.57307
91.691	5099.330	75.894	2.40961
91.691	5099.330	78.706	7.63378
93.859	5055.958	18.304	2.77462

93.859	5055.958	20.644	1.52249
93.859	5055.958	22.984	1.50747
93.859	5055.958	25.324	1.60412
93.859	5055.958	27.664	1.64416
93.859	5055.958	30.004	1.71048
93.859	5055.958	32.344	1.74429
93.859	5055.958	34.684	6.64503
93.859	5055.958	37.025	8.06260
93.859	5055.958	39.365	8.80502
93.859	5055.958	41.705	-112.00000
93.859	5058.126	19.836	3.09286
93.859	5058.126	22.176	1.51182
93.859	5058.126	24.515	1.46314
93.859	5058.126	26.854	1.57341
93.859	5058.126	29.193	1.65504
93.859	5058.126	31.533	1.68507
93.859	5058.126	33.872	1.76278
93.859	5058.126	36.211	5.91584
93.859	5058.126	38.550	7.67459
93.859	5058.126	40.889	8.55158
93.859	5058.126	43.229	9.08835
93.859	5060.295	21.372	3.26523
93.859	5060.295	23.715	1.50568
93.859	5060.295	26.058	1.43332
93.859	5060.295	28.401	1.55472
93.859	5060.295	30.744	1.67161
93.859	5060.295	33.087	1.70990
93.859	5060.295	35.430	1.78600
93.859	5060.295	37.773	5.01300
93.859	5060.295	40.116	7.30479
93.859	5060.295	42.459	8.30696
93.859	5060.295	44.802	8.91840
93.859	5062.464	22.910	3.44302
93.859	5062.464	25.261	1.48919
93.859	5062.464	27.612	1.41836
93.859	5062.464	29.962	1.54459
93.859	5062.464	32.313	1.69049
93.859	5062.464	34.664	1.73928
93.859	5062.464	37.015	1.81179
93.859	5062.464	39.366	3.55586
93.859	5062.464	41.717	6.91590
93.859	5062.464	44.068	8.09149
93.859	5062.464	46.419	8.75949
93.859	5064.632	24.450	3.42008
93.859	5064.632	26.812	1.51013
93.859	5064.632	29.175	1.41175
93.859	5064.632	31.537	1.54109
93.859	5064.632	33.900	1.70330
93.859	5064.632	36.263	1.77177
93.859	5064.632	38.625	1.83037
93.859	5064.632	40.988	1.84464
93.859	5064.632	43.351	6.49897
93.859	5064.632	45.713	7.88040
93.859	5064.632	48.076	8.62869

93.859	5066.801	25.991	3.37214
93.859	5066.801	28.369	1.57833
93.859	5066.801	30.747	1.41385
93.859	5066.801	33.125	1.54230
93.859	5066.801	35.502	1.70858
93.859	5066.801	37.880	1.80403
93.859	5066.801	40.258	1.82930
93.859	5066.801	42.636	1.87933
93.859	5066.801	45.013	6.02303
93.859	5066.801	47.391	7.67642
93.859	5066.801	49.769	8.51153
93.859	5068.970	27.535	3.23510
93.859	5068.970	29.931	1.67241
93.859	5068.970	32.327	1.42414
93.859	5068.970	34.723	1.54836
93.859	5068.970	37.119	1.71715
93.859	5068.970	39.515	1.83801
93.859	5068.970	41.911	1.86706
93.859	5068.970	44.307	1.91739
93.859	5068.970	46.703	5.45092
93.859	5068.970	49.099	7.46969
93.859	5068.970	51.495	8.40146
93.859	5071.138	29.080	3.21853
93.859	5071.138	31.497	1.76390
93.859	5071.138	33.914	1.44371
93.859	5071.138	36.331	1.55539
93.859	5071.138	38.748	1.72807
93.859	5071.138	41.165	1.87248
93.859	5071.138	43.582	1.90699
93.859	5071.138	45.999	1.95771
93.859	5071.138	48.416	4.69553
93.859	5071.138	50.833	7.25454
93.859	5071.138	53.250	8.30284
93.859	5073.307	30.626	3.29066
93.859	5073.307	33.067	1.88143
93.859	5073.307	35.507	1.47593
93.859	5073.307	37.948	1.56453
93.859	5073.307	40.388	1.74054
93.859	5073.307	42.829	1.90547
93.859	5073.307	45.269	1.94845
93.859	5073.307	47.710	1.99725
93.859	5073.307	50.150	3.42268
93.859	5073.307	52.591	7.02778
93.859	5073.307	55.031	8.20984
93.859	5075.475	32.174	3.44189
93.859	5075.475	34.640	1.95887
93.859	5075.475	37.107	1.52863
93.859	5075.475	39.573	1.57553
93.859	5075.475	42.039	1.75393
93.859	5075.475	44.506	1.92742
93.859	5075.475	46.972	1.99034
93.859	5075.475	49.438	2.02881
93.859	5075.475	51.905	2.00709
93.859	5075.475	54.371	6.78235

93.859	5075.475	56.837	8.12005
93.859	5077.644	33.723	3.67692
93.859	5077.644	36.217	2.04349
93.859	5077.644	38.711	1.62028
93.859	5077.644	41.206	1.58857
93.859	5077.644	43.700	1.76772
93.859	5077.644	46.194	1.94758
93.859	5077.644	48.688	2.03154
93.859	5077.644	51.182	2.03880
93.859	5077.644	53.677	2.04918
93.859	5077.644	56.171	6.51042
93.859	5077.644	58.665	8.03178
93.859	5079.813	35.294	3.97025
93.859	5079.813	37.816	2.13781
93.859	5079.813	40.338	1.70833
93.859	5079.813	42.860	1.60524
93.859	5079.813	45.382	1.78257
93.859	5079.813	47.904	1.96930
93.859	5079.813	50.426	2.07342
93.859	5079.813	52.948	2.08176
93.859	5079.813	55.470	2.09316
93.859	5079.813	57.992	6.20472
93.859	5079.813	60.514	7.94344
93.859	5081.981	36.925	4.24310
93.859	5081.981	39.471	2.23273
93.859	5081.981	42.017	1.79680
93.859	5081.981	44.563	1.62781
93.859	5081.981	47.109	1.80119
93.859	5081.981	49.655	1.99359
93.859	5081.981	52.201	2.11565
93.859	5081.981	54.747	2.12571
93.859	5081.981	57.293	2.13844
93.859	5081.981	59.839	5.86196
93.859	5081.981	62.384	7.85719
93.859	5084.150	38.611	4.49668
93.859	5084.150	41.177	2.32775
93.859	5084.150	43.744	1.89068
93.859	5084.150	46.310	1.65671
93.859	5084.150	48.876	1.82096
93.859	5084.150	51.443	2.02001
93.859	5084.150	54.009	2.15781
93.859	5084.150	56.575	2.17030
93.859	5084.150	59.142	2.18402
93.859	5084.150	61.708	5.46576
93.859	5084.150	64.274	7.77062
93.859	5086.318	40.344	4.73618
93.859	5086.318	42.928	2.42274
93.859	5086.318	45.512	1.97979
93.859	5086.318	48.095	1.69277
93.859	5086.318	50.679	1.84266
93.859	5086.318	53.263	2.04819
93.859	5086.318	55.847	2.19914
93.859	5086.318	58.431	2.21533
93.859	5086.318	61.014	2.22956

93.859	5086.318	63.598	4.98814
93.859	5086.318	66.182	7.68325
93.859	5088.487	42.118	4.96621
93.859	5088.487	44.717	2.51770
93.859	5088.487	47.316	2.04362
93.859	5088.487	49.914	1.73745
93.859	5088.487	52.513	1.86598
93.859	5088.487	55.112	2.07779
93.859	5088.487	57.711	2.23638
93.859	5088.487	60.310	2.26073
93.859	5088.487	62.908	2.27416
93.859	5088.487	65.507	4.36483
93.859	5088.487	68.106	7.59440
93.859	5090.656	43.928	5.19025
93.859	5090.656	46.540	2.61262
93.859	5090.656	49.152	2.10807
93.859	5090.656	51.763	1.79332
93.859	5090.656	54.375	1.89069
93.859	5090.656	56.986	2.10854
93.859	5090.656	59.598	2.27001
93.859	5090.656	62.210	2.30593
93.859	5090.656	64.821	2.31648
93.859	5090.656	67.433	3.33692
93.859	5090.656	70.044	7.50277
93.859	5092.824	45.770	5.41071
93.859	5092.824	48.393	2.70749
93.859	5092.824	51.016	2.17298
93.859	5092.824	53.638	1.86519
93.859	5092.824	56.261	1.91653
93.859	5092.824	58.883	2.14022
93.859	5092.824	61.506	2.30462
93.859	5092.824	64.129	2.35044
93.859	5092.824	66.751	2.35316
93.859	5092.824	69.374	2.26809
93.859	5092.824	71.996	7.40889
93.859	5094.993	47.641	5.62919
93.859	5094.993	50.273	2.80229
93.859	5094.993	52.905	2.23823
93.859	5094.993	55.537	1.92842
93.859	5094.993	58.169	1.94339
93.859	5094.993	60.801	2.17265
93.859	5094.993	63.433	2.34005
93.859	5094.993	66.065	2.39521
93.859	5094.993	68.697	2.36976
93.859	5094.993	71.329	2.30872
93.859	5094.993	73.961	7.31124
93.859	5097.161	49.535	5.84668
93.859	5097.161	52.175	2.89703
93.859	5097.161	54.816	2.30374
93.859	5097.161	57.456	1.98967
93.859	5097.161	60.096	1.97115
93.859	5097.161	62.736	2.20567
93.859	5097.161	65.376	2.37613
93.859	5097.161	68.016	2.43975

93.859	5097.161	70.656	2.40842
93.859	5097.161	73.297	2.34949
93.859	5097.161	75.937	7.20915
93.859	5099.330	51.452	6.06380
93.859	5099.330	54.099	2.99101
93.859	5099.330	56.746	2.36941
93.859	5099.330	59.393	2.05156
93.859	5099.330	62.040	1.99970
93.859	5099.330	64.688	2.23913
93.859	5099.330	67.335	2.41278
93.859	5099.330	69.982	2.48399
93.859	5099.330	72.629	2.45055
93.859	5099.330	75.276	2.39067
93.859	5099.330	77.923	7.10254
96.028	5055.958	19.683	2.71127
96.028	5055.958	21.746	1.53267
96.028	5055.958	23.810	1.47564
96.028	5055.958	25.873	1.52523
96.028	5055.958	27.936	1.52759
96.028	5055.958	29.999	1.63378
96.028	5055.958	32.062	1.70716
96.028	5055.958	34.126	6.38528
96.028	5055.958	36.189	8.01078
96.028	5055.958	38.252	8.85191
96.028	5055.958	40.315	9.35311
96.028	5058.126	21.219	3.03832
96.028	5058.126	23.286	1.53632
96.028	5058.126	25.353	1.44636
96.028	5058.126	27.421	1.49696
96.028	5058.126	29.488	1.53835
96.028	5058.126	31.555	1.55622
96.028	5058.126	33.622	1.71372
96.028	5058.126	35.689	5.40419
96.028	5058.126	37.757	7.54347
96.028	5058.126	39.824	8.52016
96.028	5058.126	41.891	9.11203
96.028	5060.295	22.757	3.38240
96.028	5060.295	24.833	1.54143
96.028	5060.295	26.908	1.41035
96.028	5060.295	28.984	1.47472
96.028	5060.295	31.060	1.55160
96.028	5060.295	33.135	1.58088
96.028	5060.295	35.211	1.72517
96.028	5060.295	37.287	3.99231
96.028	5060.295	39.363	7.06504
96.028	5060.295	41.438	8.23176
96.028	5060.295	43.514	8.88988
96.028	5062.464	24.297	3.55572
96.028	5062.464	26.385	1.54846
96.028	5062.464	28.474	1.38979
96.028	5062.464	30.562	1.46262
96.028	5062.464	32.650	1.56771
96.028	5062.464	34.738	1.60955
96.028	5062.464	36.826	1.73426

96.028	5062.464	38.914	1.77170
96.028	5062.464	41.003	6.56324
96.028	5062.464	43.091	7.95841
96.028	5062.464	45.179	8.70666
96.028	5064.632	25.840	3.72875
96.028	5064.632	27.944	1.53881
96.028	5064.632	30.048	1.37934
96.028	5064.632	32.152	1.46011
96.028	5064.632	34.256	1.58298
96.028	5064.632	36.361	1.64125
96.028	5064.632	38.465	1.71760
96.028	5064.632	40.569	1.79608
96.028	5064.632	42.673	5.99855
96.028	5064.632	44.777	7.68794
96.028	5064.632	46.882	8.54199
96.028	5066.801	27.384	3.70400
96.028	5066.801	29.507	1.56710
96.028	5066.801	31.631	1.37914
96.028	5066.801	33.754	1.46102
96.028	5066.801	35.877	1.58838
96.028	5066.801	38.001	1.67208
96.028	5066.801	40.124	1.69896
96.028	5066.801	42.248	1.82448
96.028	5066.801	44.371	5.32131
96.028	5066.801	46.495	7.42231
96.028	5066.801	48.618	8.38836
96.028	5068.970	28.929	3.63652
96.028	5068.970	31.075	1.64008
96.028	5068.970	33.220	1.38789
96.028	5068.970	35.366	1.46629
96.028	5068.970	37.512	1.59719
96.028	5068.970	39.657	1.70397
96.028	5068.970	41.803	1.73625
96.028	5068.970	43.948	1.85446
96.028	5068.970	46.094	4.40108
96.028	5068.970	48.239	7.14784
96.028	5068.970	50.385	8.24967
96.028	5071.138	30.476	3.47200
96.028	5071.138	32.647	1.73212
96.028	5071.138	34.817	1.40554
96.028	5071.138	36.987	1.47475
96.028	5071.138	39.158	1.60869
96.028	5071.138	41.328	1.73612
96.028	5071.138	43.498	1.77539
96.028	5071.138	45.668	1.88391
96.028	5071.138	47.839	1.89137
96.028	5071.138	50.009	6.85997
96.028	5071.138	52.179	8.11899
96.028	5073.307	32.025	3.43809
96.028	5073.307	34.222	1.82158
96.028	5073.307	36.420	1.43353
96.028	5073.307	38.617	1.48571
96.028	5073.307	40.814	1.62204
96.028	5073.307	43.012	1.76672

96.028	5073.307	45.209	1.81582
96.028	5073.307	47.406	1.90577
96.028	5073.307	49.604	1.92587
96.028	5073.307	51.801	6.54854
96.028	5073.307	53.998	7.99343
96.028	5075.475	33.574	3.49963
96.028	5075.475	35.801	1.93571
96.028	5075.475	38.027	1.47548
96.028	5075.475	40.254	1.49907
96.028	5075.475	42.480	1.63666
96.028	5075.475	44.707	1.78824
96.028	5075.475	46.934	1.85608
96.028	5075.475	49.160	1.86949
96.028	5075.475	51.387	1.96254
96.028	5075.475	53.613	6.20178
96.028	5075.475	55.840	7.86979
96.028	5077.644	35.125	3.64551
96.028	5077.644	37.383	2.00926
96.028	5077.644	39.640	1.53875
96.028	5077.644	41.898	1.51486
96.028	5077.644	44.155	1.65206
96.028	5077.644	46.413	1.80858
96.028	5077.644	48.671	1.89554
96.028	5077.644	50.928	1.91120
96.028	5077.644	53.186	2.00092
96.028	5077.644	55.443	5.80292
96.028	5077.644	57.701	7.74896
96.028	5079.813	36.677	3.87994
96.028	5079.813	38.967	2.09189
96.028	5079.813	41.257	1.63837
96.028	5079.813	43.548	1.53358
96.028	5079.813	45.838	1.66910
96.028	5079.813	48.129	1.82968
96.028	5079.813	50.419	1.93524
96.028	5079.813	52.710	1.95372
96.028	5079.813	55.000	2.04017
96.028	5079.813	57.290	5.32592
96.028	5079.813	59.581	7.62747
96.028	5081.981	38.248	4.17429
96.028	5081.981	40.571	2.18411
96.028	5081.981	42.894	1.72129
96.028	5081.981	45.217	1.55676
96.028	5081.981	47.540	1.68575
96.028	5081.981	49.863	1.85183
96.028	5081.981	52.186	1.97461
96.028	5081.981	54.509	1.99698
96.028	5081.981	56.832	2.08002
96.028	5081.981	59.155	4.72131
96.028	5081.981	61.478	7.50402
96.028	5084.150	39.876	4.44351
96.028	5084.150	42.228	2.27601
96.028	5084.150	44.579	1.80855
96.028	5084.150	46.931	1.58608
96.028	5084.150	49.283	1.70483

96.028	5084.150	51.635	1.87606
96.028	5084.150	53.987	2.01346
96.028	5084.150	56.338	2.04088
96.028	5084.150	58.690	2.11849
96.028	5084.150	61.042	3.85595
96.028	5084.150	63.394	7.37864
96.028	5086.318	41.554	4.68962
96.028	5086.318	43.931	2.36725
96.028	5086.318	46.308	1.90004
96.028	5086.318	48.686	1.62209
96.028	5086.318	51.063	1.72602
96.028	5086.318	53.440	1.90206
96.028	5086.318	55.817	2.05019
96.028	5086.318	58.194	2.08500
96.028	5086.318	60.571	2.15432
96.028	5086.318	62.949	2.12314
96.028	5086.318	65.326	7.25021
96.028	5088.487	43.277	4.91882
96.028	5088.487	45.676	2.45791
96.028	5088.487	48.076	1.97951
96.028	5088.487	50.475	1.66564
96.028	5088.487	52.875	1.74901
96.028	5088.487	55.275	1.92951
96.028	5088.487	57.674	2.08151
96.028	5088.487	60.074	2.12914
96.028	5088.487	62.474	2.18368
96.028	5088.487	64.873	2.16193
96.028	5088.487	67.273	7.11844
96.028	5090.656	45.038	5.13656
96.028	5090.656	47.458	2.54811
96.028	5090.656	49.877	2.04043
96.028	5090.656	52.297	1.71810
96.028	5090.656	54.716	1.77357
96.028	5090.656	57.136	1.95812
96.028	5090.656	59.555	2.11397
96.028	5090.656	61.975	2.17231
96.028	5090.656	64.394	2.18885
96.028	5090.656	66.814	2.20121
96.028	5090.656	69.234	6.98160
96.028	5092.824	46.835	5.34695
96.028	5092.824	49.272	2.63797
96.028	5092.824	51.709	2.10180
96.028	5092.824	54.147	1.78169
96.028	5092.824	56.584	1.79948
96.028	5092.824	59.021	1.98773
96.028	5092.824	61.458	2.14742
96.028	5092.824	63.895	2.21572
96.028	5092.824	66.332	2.20465
96.028	5092.824	68.769	2.24073
96.028	5092.824	71.207	6.83877
96.028	5094.993	48.663	5.55285
96.028	5094.993	51.115	2.72759
96.028	5094.993	53.568	2.16350
96.028	5094.993	56.021	1.85172

96.028	5094.993	58.474	1.82660
96.028	5094.993	60.927	2.01808
96.028	5094.993	63.380	2.18170
96.028	5094.993	65.833	2.25916
96.028	5094.993	68.285	2.24721
96.028	5094.993	70.738	2.28064
96.028	5094.993	73.191	6.68878
96.028	5097.161	50.518	5.75615
96.028	5097.161	52.984	2.81702
96.028	5097.161	55.451	2.22546
96.028	5097.161	57.918	1.91097
96.028	5097.161	60.385	1.85481
96.028	5097.161	62.852	2.04907
96.028	5097.161	65.319	2.21665
96.028	5097.161	67.786	2.30231
96.028	5097.161	70.252	2.28969
96.028	5097.161	72.719	2.32060
96.028	5097.161	75.186	6.52970
96.028	5099.330	52.397	5.95807
96.028	5099.330	54.876	2.90630
96.028	5099.330	57.356	2.28762
96.028	5099.330	59.835	1.97082
96.028	5099.330	62.315	1.88401
96.028	5099.330	64.794	2.08054
96.028	5099.330	67.273	2.25216
96.028	5099.330	69.753	2.34579
96.028	5099.330	72.232	2.33197
96.028	5099.330	74.711	2.36064
96.028	5099.330	77.191	6.36031
98.196	5055.958	21.066	2.67227
98.196	5055.958	22.857	1.54660
98.196	5055.958	24.649	1.45260
98.196	5055.958	26.440	1.46599
98.196	5055.958	28.232	1.44268
98.196	5055.958	30.023	1.59073
98.196	5055.958	31.815	1.69257
98.196	5055.958	33.606	6.02436
98.196	5055.958	35.398	8.00944
98.196	5055.958	37.189	8.96655
98.196	5055.958	38.981	9.51268
98.196	5058.126	22.604	3.01384
98.196	5058.126	24.405	1.56691
98.196	5058.126	26.205	1.43540
98.196	5058.126	28.006	1.44994
98.196	5058.126	29.807	1.44976
98.196	5058.126	31.607	1.44646
98.196	5058.126	33.408	1.68296
98.196	5058.126	35.208	4.54321
98.196	5058.126	37.009	7.39343
98.196	5058.126	38.810	8.53556
98.196	5058.126	40.610	9.20259
98.196	5060.295	24.145	3.37727
98.196	5060.295	25.959	1.58498
98.196	5060.295	27.773	1.41723

98.196	5060.295	29.587	1.42125
98.196	5060.295	31.401	1.45757
98.196	5060.295	33.215	1.46911
98.196	5060.295	35.029	1.67603
98.196	5060.295	36.842	1.72690
98.196	5060.295	38.656	6.75358
98.196	5060.295	40.470	8.15850
98.196	5060.295	42.284	8.91603
98.196	5062.464	25.688	3.74126
98.196	5062.464	27.519	1.60312
98.196	5062.464	29.350	1.38906
98.196	5062.464	31.181	1.40632
98.196	5062.464	33.012	1.46899
98.196	5062.464	34.843	1.49570
98.196	5062.464	36.674	1.66140
98.196	5062.464	38.505	1.73843
98.196	5062.464	40.336	6.05996
98.196	5062.464	42.167	7.79317
98.196	5062.464	43.998	8.67678
98.196	5064.632	27.233	3.91487
98.196	5064.632	29.084	1.62336
98.196	5064.632	30.935	1.37002
98.196	5064.632	32.787	1.39792
98.196	5064.632	34.638	1.48132
98.196	5064.632	36.490	1.52524
98.196	5064.632	38.341	1.56698
98.196	5064.632	40.192	1.75407
98.196	5064.632	42.044	5.22658
98.196	5064.632	43.895	7.43962
98.196	5064.632	45.746	8.45548
98.196	5066.801	28.779	4.08347
98.196	5066.801	30.654	1.61555
98.196	5066.801	32.529	1.36385
98.196	5066.801	34.403	1.39675
98.196	5066.801	36.278	1.48819
98.196	5066.801	38.153	1.55385
98.196	5066.801	40.028	1.58059
98.196	5066.801	41.902	1.77223
98.196	5066.801	43.777	4.04715
98.196	5066.801	45.652	7.08068
98.196	5066.801	47.527	8.25576
98.196	5068.970	30.327	4.03973
98.196	5068.970	32.228	1.64784
98.196	5068.970	34.128	1.36836
98.196	5068.970	36.029	1.40104
98.196	5068.970	37.930	1.49649
98.196	5068.970	39.831	1.58303
98.196	5068.970	41.732	1.61708
98.196	5068.970	43.632	1.78977
98.196	5068.970	45.533	1.82590
98.196	5068.970	47.434	6.70266
98.196	5068.970	49.335	8.06849
98.196	5071.138	31.876	3.95378
98.196	5071.138	33.805	1.72453

98.196	5071.138	35.734	1.38246
98.196	5071.138	37.664	1.40951
98.196	5071.138	39.593	1.50765
98.196	5071.138	41.522	1.61237
98.196	5071.138	43.451	1.65509
98.196	5071.138	45.381	1.80111
98.196	5071.138	47.310	1.85382
98.196	5071.138	49.239	6.29581
98.196	5071.138	51.168	7.88975
98.196	5073.307	33.426	3.74921
98.196	5073.307	35.386	1.81020
98.196	5073.307	37.346	1.40638
98.196	5073.307	39.306	1.42136
98.196	5073.307	41.265	1.52281
98.196	5073.307	43.225	1.64008
98.196	5073.307	45.185	1.69400
98.196	5073.307	47.145	1.78648
98.196	5073.307	49.104	1.88354
98.196	5073.307	51.064	5.83814
98.196	5073.307	53.024	7.71510
98.196	5075.475	34.978	3.69132
98.196	5075.475	36.970	1.89739
98.196	5075.475	38.962	1.44179
98.196	5075.475	40.954	1.43597
98.196	5075.475	42.947	1.53784
98.196	5075.475	44.939	1.66117
98.196	5075.475	46.931	1.73200
98.196	5075.475	48.923	1.75119
98.196	5075.475	50.916	1.91489
98.196	5075.475	52.908	5.29707
98.196	5075.475	54.900	7.54421
98.196	5077.644	36.530	3.73884
98.196	5077.644	38.557	2.00789
98.196	5077.644	40.583	1.49233
98.196	5077.644	42.609	1.45322
98.196	5077.644	44.636	1.55404
98.196	5077.644	46.662	1.68147
98.196	5077.644	48.689	1.76950
98.196	5077.644	50.715	1.79219
98.196	5077.644	52.742	1.94714
98.196	5077.644	54.768	4.60627
98.196	5077.644	56.795	7.37322
98.196	5079.813	38.083	3.87806
98.196	5079.813	40.146	2.07417
98.196	5079.813	42.208	1.56489
98.196	5079.813	44.270	1.47359
98.196	5079.813	46.332	1.57104
98.196	5079.813	48.394	1.70254
98.196	5079.813	50.457	1.80684
98.196	5079.813	52.519	1.83401
98.196	5079.813	54.581	1.97866
98.196	5079.813	56.643	3.52717
98.196	5079.813	58.706	7.19945
98.196	5081.981	39.637	4.11231

98.196	5081.981	41.737	2.15464
98.196	5081.981	43.836	1.66359
98.196	5081.981	45.936	1.49783
98.196	5081.981	48.035	1.58860
98.196	5081.981	50.134	1.72398
98.196	5081.981	52.234	1.84340
98.196	5081.981	54.333	1.87636
98.196	5081.981	56.433	2.00797
98.196	5081.981	58.532	2.01823
98.196	5081.981	60.632	7.02000
98.196	5084.150	41.210	4.40902
98.196	5084.150	43.346	2.24476
98.196	5084.150	45.482	1.74673
98.196	5084.150	47.618	1.52733
98.196	5084.150	49.755	1.60722
98.196	5084.150	51.891	1.74618
98.196	5084.150	54.027	1.87838
98.196	5084.150	56.163	1.91887
98.196	5084.150	58.300	2.03130
98.196	5084.150	60.436	2.05364
98.196	5084.150	62.572	6.83469
98.196	5086.318	42.834	4.67543
98.196	5086.318	45.003	2.33366
98.196	5086.318	47.173	1.83233
98.196	5086.318	49.342	1.56315
98.196	5086.318	51.512	1.62804
98.196	5086.318	53.681	1.77017
98.196	5086.318	55.850	1.90917
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98.196	5086.318	64.528	6.64196
98.196	5088.487	44.506	4.91455
98.196	5088.487	46.705	2.42115
98.196	5088.487	48.904	1.92188
98.196	5088.487	51.103	1.60582
98.196	5088.487	53.302	1.65085
98.196	5088.487	55.501	1.79568
98.196	5088.487	57.700	1.93909
98.196	5088.487	59.900	2.00338
98.196	5088.487	62.099	2.00564
98.196	5088.487	64.298	2.12724
98.196	5088.487	66.497	6.43937
98.196	5090.656	46.219	5.13377
98.196	5090.656	48.445	2.50752
98.196	5090.656	50.671	1.98984
98.196	5090.656	52.897	1.65616
98.196	5090.656	55.123	1.67538
98.196	5090.656	57.349	1.82247
98.196	5090.656	59.575	1.97023
98.196	5090.656	61.801	2.04500
98.196	5090.656	64.027	2.04769
98.196	5090.656	66.253	2.16496
98.196	5090.656	68.479	6.22437

98.196	5092.824	47.970	5.33949
98.196	5092.824	50.221	2.59301
98.196	5092.824	52.471	2.04784
98.196	5092.824	54.721	1.71536
98.196	5092.824	56.971	1.70143
98.196	5092.824	59.221	1.85028
98.196	5092.824	61.471	2.00240
98.196	5092.824	63.722	2.08686
98.196	5092.824	65.972	2.09001
98.196	5092.824	68.222	2.20265
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98.196	5097.161	67.613	2.17012
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102.534	5075.475	42.419	1.35365

102.534	5075.475	43.960	1.38692
102.534	5075.475	45.502	1.45573
102.534	5075.475	47.043	1.51124
102.534	5075.475	48.585	1.53869
102.534	5075.475	50.126	1.79767
102.534	5075.475	51.668	1.86715
102.534	5075.475	53.209	6.27273
102.534	5077.644	39.350	4.45346
102.534	5077.644	40.932	2.02881
102.534	5077.644	42.513	1.46603
102.534	5077.644	44.095	1.37022
102.534	5077.644	45.677	1.40276
102.534	5077.644	47.258	1.47466
102.534	5077.644	48.840	1.54333
102.534	5077.644	50.422	1.57749
102.534	5077.644	52.003	1.80284
102.534	5077.644	53.585	1.89086
102.534	5077.644	55.167	5.87680
102.534	5079.813	40.906	4.31994
102.534	5079.813	42.529	2.10919
102.534	5079.813	44.152	1.51366
102.534	5079.813	45.776	1.39077
102.534	5079.813	47.399	1.42011
102.534	5079.813	49.022	1.49492
102.534	5079.813	50.645	1.57499
102.534	5079.813	52.268	1.61667
102.534	5079.813	53.891	1.79792
102.534	5079.813	55.514	1.91616
102.534	5079.813	57.137	5.44514
102.534	5081.981	42.463	4.32471
102.534	5081.981	44.129	2.19127
102.534	5081.981	45.794	1.57899
102.534	5081.981	47.460	1.41542
102.534	5081.981	49.126	1.43891
102.534	5081.981	50.791	1.51609
102.534	5081.981	52.457	1.60560
102.534	5081.981	54.122	1.65578
102.534	5081.981	55.788	1.76355
102.534	5081.981	57.453	1.94255
102.534	5081.981	59.119	4.95370
102.534	5084.150	44.021	4.44399
102.534	5084.150	45.730	2.24992
102.534	5084.150	47.439	1.66667
102.534	5084.150	49.148	1.44472
102.534	5084.150	50.857	1.45893
102.534	5084.150	52.566	1.53786
102.534	5084.150	54.275	1.63358
102.534	5084.150	55.984	1.69387
102.534	5084.150	57.693	1.71166
102.534	5084.150	59.402	1.96919
102.534	5084.150	61.111	4.35257
102.534	5086.318	45.579	4.67746
102.534	5086.318	47.332	2.32505
102.534	5086.318	49.086	1.75078

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102.534	5086.318	54.346	1.56000
102.534	5086.318	56.099	1.65990
102.534	5086.318	57.853	1.73164
102.534	5086.318	59.606	1.75234
102.534	5086.318	61.359	1.99585
102.534	5086.318	63.113	3.48199
102.534	5088.487	47.153	4.98163
102.534	5088.487	48.950	2.41048
102.534	5088.487	50.747	1.83382
102.534	5088.487	52.544	1.52094
102.534	5088.487	54.341	1.50271
102.534	5088.487	56.138	1.58274
102.534	5088.487	57.935	1.68680
102.534	5088.487	59.732	1.76912
102.534	5088.487	61.530	1.79311
102.534	5088.487	63.327	2.02270
102.534	5088.487	65.124	2.05705
102.534	5090.656	48.772	5.24296
102.534	5090.656	50.609	2.49281
102.534	5090.656	52.446	1.91897
102.534	5090.656	54.284	1.56880
102.534	5090.656	56.121	1.52731
102.534	5090.656	57.958	1.60681
102.534	5090.656	59.796	1.71494
102.534	5090.656	61.633	1.80659
102.534	5090.656	63.470	1.83393
102.534	5090.656	65.308	2.04864
102.534	5090.656	67.145	2.08812
102.534	5092.824	50.433	5.46728
102.534	5092.824	52.307	2.57225
102.534	5092.824	54.181	1.99189
102.534	5092.824	56.055	1.62340
102.534	5092.824	57.930	1.55369
102.534	5092.824	59.804	1.63203
102.534	5092.824	61.678	1.74415
102.534	5092.824	63.553	1.84390
102.534	5092.824	65.427	1.87482
102.534	5092.824	67.301	2.07352
102.534	5092.824	69.175	2.11967
102.534	5094.993	52.131	5.66517
102.534	5094.993	54.040	2.64948
102.534	5094.993	55.948	2.04410
102.534	5094.993	57.856	1.68533
102.534	5094.993	59.765	1.58171
102.534	5094.993	61.673	1.65822
102.534	5094.993	63.581	1.77426
102.534	5094.993	65.490	1.88091
102.534	5094.993	67.398	1.91575
102.534	5094.993	69.306	2.09680
102.534	5094.993	71.215	2.15189
102.534	5097.161	53.864	5.84545
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102.534	5097.161	59.683	1.75350
102.534	5097.161	61.623	1.61123
102.534	5097.161	63.563	1.68521
102.534	5097.161	65.502	1.80512
102.534	5097.161	67.442	1.91743
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102.534	5097.161	71.322	2.11765
102.534	5097.161	73.261	2.18433
102.534	5099.330	55.628	6.01456
102.534	5099.330	57.597	2.79954
102.534	5099.330	59.565	2.14811
102.534	5099.330	61.534	1.80735
102.534	5099.330	63.503	1.64215
102.534	5099.330	65.472	1.71287
102.534	5099.330	67.440	1.83662
102.534	5099.330	69.409	1.95324
102.534	5099.330	71.378	1.99700
102.534	5099.330	73.346	2.13420
102.534	5099.330	75.315	2.21703
104.702	5055.958	25.234	2.03661
104.702	5055.958	26.249	1.57174
104.702	5055.958	27.263	1.42915
104.702	5055.958	28.277	1.36007
104.702	5055.958	29.291	1.30729
104.702	5055.958	30.305	1.82937
104.702	5055.958	31.320	1.95212
104.702	5055.958	32.334	1.97228
104.702	5055.958	33.348	7.87167
104.702	5055.958	34.362	-112.00000
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104.702	5058.126	28.860	1.46290
104.702	5058.126	29.899	1.38736
104.702	5058.126	30.938	1.33445
104.702	5058.126	31.977	1.28828
104.702	5058.126	33.016	1.84203
104.702	5058.126	34.055	1.89363
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104.702	5058.126	36.133	8.64022
104.702	5058.126	37.172	9.92403
104.702	5060.295	28.331	3.41411
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104.702	5060.295	31.532	1.39888
104.702	5060.295	32.599	1.34973
104.702	5060.295	33.666	1.30912
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104.702	5060.295	35.801	1.81367
104.702	5060.295	36.868	1.84181
104.702	5060.295	37.935	7.45254
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104.702	5062.464	34.273	1.35476
104.702	5062.464	35.371	1.31590
104.702	5062.464	36.470	1.28183
104.702	5062.464	37.568	1.74890
104.702	5062.464	38.666	1.80312
104.702	5062.464	39.764	6.25398
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104.702	5064.632	31.433	4.54653
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104.702	5064.632	33.696	1.51003
104.702	5064.632	34.827	1.38954
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104.702	5064.632	37.090	1.31823
104.702	5064.632	38.222	1.29843
104.702	5064.632	39.353	1.69290
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104.702	5066.801	41.155	1.63540
104.702	5066.801	42.322	1.75832
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104.702	5068.970	34.540	5.41432
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104.702	5068.970	39.358	1.32223
104.702	5068.970	40.562	1.33598
104.702	5068.970	41.766	1.34382
104.702	5068.970	42.971	1.34540
104.702	5068.970	44.175	1.74610
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104.702	5071.138	38.582	1.46816
104.702	5071.138	39.825	1.33547
104.702	5071.138	41.069	1.32238
104.702	5071.138	42.312	1.34967
104.702	5071.138	43.556	1.36953
104.702	5071.138	44.799	1.37769
104.702	5071.138	46.042	1.73763
104.702	5071.138	47.286	1.81437
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104.702	5073.307	38.935	2.05679
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104.702	5073.307	42.787	1.32834
104.702	5073.307	44.071	1.36440
104.702	5073.307	45.354	1.39586
104.702	5073.307	46.638	1.41152
104.702	5073.307	47.922	1.72938
104.702	5073.307	49.206	1.82438
104.702	5073.307	50.490	5.32972
104.702	5075.475	39.208	5.46156
104.702	5075.475	40.534	2.07492
104.702	5075.475	41.859	1.46693
104.702	5075.475	43.185	1.34182
104.702	5075.475	44.511	1.33870
104.702	5075.475	45.836	1.37937
104.702	5075.475	47.162	1.42308
104.702	5075.475	48.488	1.44674
104.702	5075.475	49.813	1.71733
104.702	5075.475	51.139	1.83776
104.702	5075.475	52.465	4.59519
104.702	5077.644	40.765	5.30815
104.702	5077.644	42.134	2.13060
104.702	5077.644	43.502	1.48912
104.702	5077.644	44.871	1.35452
104.702	5077.644	46.240	1.35238
104.702	5077.644	47.608	1.39652
104.702	5077.644	48.977	1.45082
104.702	5077.644	50.346	1.48079
104.702	5077.644	51.714	1.69541
104.702	5077.644	53.083	1.85329
104.702	5077.644	54.451	3.59162
104.702	5079.813	42.323	4.90179
104.702	5079.813	43.736	2.17582
104.702	5079.813	45.148	1.52573
104.702	5079.813	46.561	1.37237
104.702	5079.813	47.974	1.36859
104.702	5079.813	49.386	1.41527
104.702	5079.813	50.799	1.47839
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104.702	5079.813	55.037	1.87034
104.702	5079.813	56.449	1.92335
104.702	5081.981	43.881	4.71029
104.702	5081.981	45.339	2.25056
104.702	5081.981	46.796	1.57822
104.702	5081.981	48.254	1.39506
104.702	5081.981	49.712	1.38682
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104.702	5084.150	46.943	2.31014
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104.702	5084.150	51.453	1.40646
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104.702	5084.150	54.460	1.53026
104.702	5084.150	55.963	1.58863
104.702	5084.150	57.467	1.61432
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104.702	5086.318	46.999	4.78700
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104.702	5086.318	50.099	1.74092
104.702	5086.318	51.649	1.45604
104.702	5086.318	53.199	1.42772
104.702	5086.318	54.749	1.47834
104.702	5086.318	56.299	1.55414
104.702	5086.318	57.848	1.62416
104.702	5086.318	59.398	1.65403
104.702	5086.318	60.948	1.92331
104.702	5086.318	62.498	1.99987
104.702	5088.487	48.559	5.01886
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104.702	5088.487	59.739	1.65943
104.702	5088.487	61.336	1.69364
104.702	5088.487	62.933	1.93910
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104.702	5090.656	50.133	5.32745
104.702	5090.656	51.777	2.51736
104.702	5090.656	53.420	1.89839
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104.702	5090.656	59.995	1.60644
104.702	5090.656	61.638	1.69415
104.702	5090.656	63.282	1.73325
104.702	5090.656	64.925	1.95214
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104.702	5092.824	51.750	5.58550
104.702	5092.824	53.437	2.59581
104.702	5092.824	55.123	1.98268
104.702	5092.824	56.810	1.59680
104.702	5092.824	58.497	1.50161
104.702	5092.824	60.183	1.54772
104.702	5092.824	61.870	1.63391
104.702	5092.824	63.556	1.72862
104.702	5092.824	65.243	1.77284

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104.702	5094.993	53.406	5.80085
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104.702	5094.993	60.312	1.52981
104.702	5094.993	62.039	1.57286
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104.702	5097.161	55.099	5.98621
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104.702	5097.161	60.389	1.72355
104.702	5097.161	62.152	1.55960
104.702	5097.161	63.916	1.59887
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104.702	5097.161	72.733	2.14588
104.702	5099.330	56.824	6.15190
104.702	5099.330	58.622	2.81267
104.702	5099.330	60.419	2.13509
104.702	5099.330	62.217	1.77903
104.702	5099.330	64.015	1.59086
104.702	5099.330	65.812	1.62559
104.702	5099.330	67.610	1.72130
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106.871	5055.958	28.943	1.34647
106.871	5055.958	29.713	1.29124
106.871	5055.958	30.483	1.23731
106.871	5055.958	31.253	2.23821
106.871	5055.958	32.023	2.24128
106.871	5055.958	32.793	5.95650
106.871	5055.958	33.563	10.37340
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106.871	5058.126	28.983	1.69579
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106.871	5058.126	32.183	1.27943
106.871	5058.126	32.984	2.06557
106.871	5058.126	33.784	2.11062

106.871	5058.126	34.584	2.10970
106.871	5058.126	35.384	8.17027
106.871	5058.126	36.184	10.36590
106.871	5060.295	29.734	3.19906
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106.871	5060.295	32.234	1.42448
106.871	5060.295	33.067	1.35635
106.871	5060.295	33.900	1.30733
106.871	5060.295	34.733	1.26110
106.871	5060.295	35.566	1.98726
106.871	5060.295	36.399	2.00908
106.871	5060.295	37.232	5.80564
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106.871	5062.464	31.287	4.03785
106.871	5062.464	32.156	1.97552
106.871	5062.464	33.024	1.57704
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106.871	5062.464	34.761	1.36865
106.871	5062.464	35.630	1.32289
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106.871	5062.464	37.367	1.86353
106.871	5062.464	38.235	1.91473
106.871	5062.464	39.104	1.93067
106.871	5062.464	39.972	7.74800
106.871	5064.632	32.841	4.76612
106.871	5064.632	33.747	2.07157
106.871	5064.632	34.653	1.60003
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106.871	5064.632	36.465	1.36981
106.871	5064.632	37.371	1.32790
106.871	5064.632	38.277	1.28163
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106.871	5064.632	40.089	1.84185
106.871	5064.632	40.995	1.87957
106.871	5064.632	41.901	6.63879
106.871	5066.801	34.397	5.41247
106.871	5066.801	35.342	2.14704
106.871	5066.801	36.287	1.61273
106.871	5066.801	37.232	1.43259
106.871	5066.801	38.178	1.35637
106.871	5066.801	39.123	1.31316
106.871	5066.801	40.068	1.28662
106.871	5066.801	41.014	1.26584
106.871	5066.801	41.959	1.78636
106.871	5066.801	42.904	1.84472
106.871	5066.801	43.849	5.52500
106.871	5068.970	35.953	6.00280
106.871	5068.970	36.939	2.20792
106.871	5068.970	37.925	1.61775
106.871	5068.970	38.911	1.41523
106.871	5068.970	39.897	1.33076
106.871	5068.970	40.884	1.30809
106.871	5068.970	41.870	1.29734

106.871	5068.970	42.856	1.28682
106.871	5068.970	43.842	1.74107
106.871	5068.970	44.828	1.82259
106.871	5068.970	45.814	4.21447
106.871	5071.138	37.510	6.28119
106.871	5071.138	38.538	2.25969
106.871	5071.138	39.567	1.61558
106.871	5071.138	40.595	1.38337
106.871	5071.138	41.623	1.31642
106.871	5071.138	42.652	1.30961
106.871	5071.138	43.680	1.31216
106.871	5071.138	44.709	1.31161
106.871	5071.138	45.737	1.70229
106.871	5071.138	46.766	1.80966
106.871	5071.138	47.794	1.85957
106.871	5073.307	39.067	6.40172
106.871	5073.307	40.139	2.30727
106.871	5073.307	41.211	1.56874
106.871	5073.307	42.283	1.36572
106.871	5073.307	43.355	1.31220
106.871	5073.307	44.427	1.31513
106.871	5073.307	45.499	1.33052
106.871	5073.307	46.571	1.33929
106.871	5073.307	47.643	1.66326
106.871	5073.307	48.715	1.80371
106.871	5073.307	49.787	1.86339
106.871	5075.475	40.625	6.35551
106.871	5075.475	41.742	2.30841
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106.871	5075.475	43.975	1.36054
106.871	5075.475	45.092	1.31527
106.871	5075.475	46.208	1.32472
106.871	5075.475	47.325	1.35135
106.871	5075.475	48.442	1.36852
106.871	5075.475	49.558	1.37588
106.871	5075.475	50.675	1.80253
106.871	5075.475	51.792	1.87252
106.871	5077.644	42.184	6.12960
106.871	5077.644	43.346	2.30576
106.871	5077.644	44.508	1.55286
106.871	5077.644	45.671	1.36476
106.871	5077.644	46.833	1.32372
106.871	5077.644	47.995	1.33810
106.871	5077.644	49.157	1.37342
106.871	5077.644	50.320	1.39846
106.871	5077.644	51.482	1.41126
106.871	5077.644	52.644	1.80547
106.871	5077.644	53.806	1.88526
106.871	5079.813	43.743	5.91697
106.871	5079.813	44.952	2.32304
106.871	5079.813	46.161	1.57367
106.871	5079.813	47.369	1.37641
106.871	5079.813	48.578	1.33627
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106.871	5079.813	52.204	1.42932
106.871	5079.813	53.413	1.44776
106.871	5079.813	54.621	1.80996
106.871	5079.813	55.830	1.90103
106.871	5081.981	45.303	5.43515
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106.871	5081.981	47.815	1.61165
106.871	5081.981	49.070	1.39447
106.871	5081.981	50.326	1.35199
106.871	5081.981	51.582	1.37243
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106.871	5081.981	54.094	1.46089
106.871	5081.981	55.350	1.48321
106.871	5081.981	56.606	1.81497
106.871	5081.981	57.862	1.91967
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106.871	5084.150	48.167	2.42124
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106.871	5084.150	50.774	1.41853
106.871	5084.150	52.078	1.37029
106.871	5084.150	53.382	1.39186
106.871	5084.150	54.686	1.44163
106.871	5084.150	55.989	1.49284
106.871	5084.150	57.293	1.52105
106.871	5084.150	58.597	1.81967
106.871	5084.150	59.901	1.94045
106.871	5086.318	48.423	5.09515
106.871	5086.318	49.775	2.45041
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106.871	5088.487	52.787	1.82206
106.871	5088.487	54.188	1.48557
106.871	5088.487	55.590	1.41306
106.871	5088.487	56.991	1.43409
106.871	5088.487	58.393	1.49048
106.871	5088.487	59.794	1.55532
106.871	5088.487	61.195	1.59716
106.871	5088.487	62.597	1.61265
106.871	5088.487	63.998	1.98610
106.871	5090.656	51.545	5.40726
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106.871	5090.656	55.898	1.53040
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106.871	5090.656	61.702	1.58682
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106.871	5092.824	62.119	1.54130
106.871	5092.824	63.619	1.61781
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106.871	5094.993	59.370	1.64244
106.871	5094.993	60.916	1.49203
106.871	5094.993	62.461	1.50347
106.871	5094.993	64.006	1.56792
106.871	5094.993	65.552	1.64864
106.871	5094.993	67.097	1.70962
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106.871	5097.161	61.149	1.70716
106.871	5097.161	62.737	1.52192
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106.871	5097.161	65.912	1.59534
106.871	5097.161	67.500	1.68017
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106.871	5099.330	58.073	6.34869
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106.871	5099.330	69.463	1.71236
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109.039	5077.644	50.346	1.33159
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111.208	5058.126	33.795	1.21743
111.208	5058.126	34.144	3.32172
111.208	5058.126	34.493	3.20728
111.208	5060.295	32.556	1.43168
111.208	5060.295	32.947	1.62380
111.208	5060.295	33.339	1.60848
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111.208	5060.295	34.121	1.45428
111.208	5060.295	34.513	1.39257
111.208	5060.295	34.904	1.34123
111.208	5060.295	35.296	1.29963
111.208	5060.295	35.687	1.25881
111.208	5060.295	36.079	2.95246
111.208	5060.295	36.470	2.87718
111.208	5062.464	34.113	2.84690
111.208	5062.464	34.548	2.15438
111.208	5062.464	34.983	1.80652
111.208	5062.464	35.419	1.61822
111.208	5062.464	35.854	1.50754
111.208	5062.464	36.289	1.42970
111.208	5062.464	36.724	1.36959
111.208	5062.464	37.159	1.32104
111.208	5062.464	37.594	1.28073
111.208	5062.464	38.029	2.65559

111.208	5062.464	38.464	2.61595
111.208	5064.632	35.672	4.60800
111.208	5064.632	36.152	2.50006
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111.208	5064.632	37.112	1.66661
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111.208	5064.632	38.072	1.44272
111.208	5064.632	38.552	1.37904
111.208	5064.632	39.032	1.32998
111.208	5064.632	39.512	1.29001
111.208	5064.632	39.992	1.25219
111.208	5064.632	40.473	2.40329
111.208	5066.801	37.231	6.21944
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111.208	5066.801	41.441	1.29079
111.208	5066.801	41.967	1.25464
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111.208	5068.970	38.790	7.41884
111.208	5068.970	39.364	2.86647
111.208	5068.970	39.938	2.01736
111.208	5068.970	40.511	1.68398
111.208	5068.970	41.085	1.51757
111.208	5068.970	41.658	1.42492
111.208	5068.970	42.232	1.36591
111.208	5068.970	42.805	1.32279
111.208	5068.970	43.379	1.27565
111.208	5068.970	43.952	1.23965
111.208	5068.970	44.526	2.08341
111.208	5071.138	40.351	8.33158
111.208	5071.138	40.972	2.95616
111.208	5071.138	41.594	2.02388
111.208	5071.138	42.216	1.67055
111.208	5071.138	42.837	1.49870
111.208	5071.138	43.459	1.40523
111.208	5071.138	44.081	1.33774
111.208	5071.138	44.702	1.29269
111.208	5071.138	45.324	1.26257
111.208	5071.138	45.946	1.23848
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111.208	5073.307	41.911	8.90557
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111.208	5073.307	45.264	1.35821
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111.208	5073.307	47.276	1.26341

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111.208	5086.318	51.281	6.86107
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111.208	5086.318	56.161	1.33907
111.208	5086.318	57.137	1.34166
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111.208	5086.318	60.066	1.40915
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111.208	5092.824	57.103	2.83533
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111.208	5092.824	60.505	1.43631
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111.208	5092.824	67.310	1.52941
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111.208	5097.161	70.264	1.58604
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111.208	5099.330	60.718	6.91433
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111.208	5099.330	69.740	1.52046
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113.377	5058.126	33.041	1.09160
113.377	5058.126	33.226	1.16989
113.377	5058.126	33.411	1.19015
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113.377	5060.295	34.715	1.34148
113.377	5060.295	34.900	1.38156

113.377	5060.295	35.085	1.39241
113.377	5060.295	35.270	1.38249
113.377	5060.295	35.455	1.36406
113.377	5060.295	35.641	1.34269
113.377	5060.295	35.826	1.32071
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113.377	5062.464	36.231	1.69159
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113.377	5062.464	36.696	1.56818
113.377	5062.464	36.928	1.51496
113.377	5062.464	37.161	1.46584
113.377	5062.464	37.393	1.42173
113.377	5062.464	37.626	1.38276
113.377	5062.464	37.858	1.34831
113.377	5064.632	37.094	3.46570
113.377	5064.632	37.375	2.53682
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113.377	5064.632	37.936	1.90345
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113.377	5064.632	38.778	1.54373
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113.377	5064.632	39.620	1.38232
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113.377	5068.970	42.495	1.50647
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113.377	5097.161	64.806	1.50495
113.377	5097.161	65.874	1.41851
113.377	5097.161	66.943	1.40397
113.377	5097.161	68.011	1.42379
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113.377	5097.161	71.216	1.52120
113.377	5099.330	62.108	7.26311
113.377	5099.330	63.230	3.15190
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113.377	5099.330	67.718	1.43971
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115.545	5064.632	39.011	1.76613
115.545	5064.632	39.115	1.77967
115.545	5064.632	39.218	1.76090
115.545	5064.632	39.322	1.72994
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117.714	5073.307	46.726	3.51866
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117.714	5073.307	47.112	2.44122
117.714	5073.307	47.240	2.25286
117.714	5073.307	47.369	2.10529
117.714	5073.307	47.498	1.98692
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117.714	5075.475	49.611	1.72007
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122.051	5081.981	55.740	6.76349
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122.051	5084.150	57.020	22.89110
122.051	5084.150	57.115	13.53070
122.051	5084.150	57.210	9.46956
122.051	5084.150	57.305	7.13674
122.051	5084.150	57.400	5.73841
122.051	5084.150	57.494	4.81667
122.051	5084.150	57.589	4.16809
122.051	5084.150	57.684	3.68962
122.051	5084.150	57.779	3.32366
122.051	5084.150	57.874	3.03572
122.051	5086.318	58.491	42.48030
122.051	5086.318	58.642	15.05110
122.051	5086.318	58.794	8.91508
122.051	5086.318	58.946	6.24508
122.051	5086.318	59.098	4.75012
122.051	5086.318	59.249	3.86069
122.051	5086.318	59.401	3.27833
122.051	5086.318	59.553	2.87131
122.051	5086.318	59.704	2.57305
122.051	5086.318	59.856	2.34650
122.051	5086.318	60.008	2.16959
122.051	5088.487	60.056	31.08540
122.051	5088.487	60.264	11.44040
122.051	5088.487	60.473	6.79690
122.051	5088.487	60.682	4.80979
122.051	5088.487	60.890	3.68601
122.051	5088.487	61.099	3.02289
122.051	5088.487	61.308	2.56952
122.051	5088.487	61.516	2.22499
122.051	5088.487	61.725	1.98871
122.051	5088.487	61.934	1.81908
122.051	5088.487	62.142	1.69321
122.051	5090.656	61.621	24.56530
122.051	5090.656	61.886	9.18336
122.051	5090.656	62.152	5.57579
122.051	5090.656	62.418	3.99514
122.051	5090.656	62.683	2.98134
122.051	5090.656	62.949	2.41615
122.051	5090.656	63.214	2.07152
122.051	5090.656	63.480	1.84486

122.051	5090.656	63.746	1.68812
122.051	5090.656	64.011	1.57594
122.051	5090.656	64.277	1.49369
122.051	5092.824	63.186	20.34300
122.051	5092.824	63.508	7.67249
122.051	5092.824	63.831	4.66737
122.051	5092.824	64.154	3.28488
122.051	5092.824	64.476	2.51787
122.051	5092.824	64.799	2.09119
122.051	5092.824	65.121	1.82879
122.051	5092.824	65.444	1.65696
122.051	5092.824	65.766	1.53976
122.051	5092.824	66.089	1.45772
122.051	5092.824	66.412	1.40128
122.051	5094.993	64.751	17.38570
122.051	5094.993	65.130	6.41662
122.051	5094.993	65.510	3.96324
122.051	5094.993	65.890	2.89599
122.051	5094.993	66.269	2.27099
122.051	5094.993	66.649	1.91195
122.051	5094.993	67.028	1.69336
122.051	5094.993	67.408	1.55283
122.051	5094.993	67.787	1.45952
122.051	5094.993	68.167	1.39817
122.051	5094.993	68.547	1.35538
122.051	5097.161	66.316	15.19930
122.051	5097.161	66.752	5.43247
122.051	5097.161	67.189	3.58707
122.051	5097.161	67.626	2.66912
122.051	5097.161	68.062	2.12853
122.051	5097.161	68.499	1.80559
122.051	5097.161	68.935	1.61294
122.051	5097.161	69.372	1.49246
122.051	5097.161	69.808	1.41688
122.051	5097.161	70.245	1.36721
122.051	5097.161	70.682	1.33611
122.051	5099.330	67.881	12.68160
122.051	5099.330	68.374	4.89621
122.051	5099.330	68.868	3.32443
122.051	5099.330	69.362	2.53428
122.051	5099.330	69.855	2.04521
122.051	5099.330	70.349	1.74102
122.051	5099.330	70.842	1.56436
122.051	5099.330	71.336	1.45917
122.051	5099.330	71.830	1.39372
122.051	5099.330	72.323	1.35457
122.051	5099.330	72.817	1.33276
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124.220	5055.958	29.663	-108.00000
124.220	5055.958	29.664	-108.00000
124.220	5055.958	29.665	-108.00000

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124.220	5062.464	36.166 -106.00000
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124.220	5062.464	36.173 -108.00000
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124.220	5064.632	38.335 -106.00000
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124.220	5066.801	40.503 -106.00000
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124.220	5066.801	40.506 -108.00000

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124.220	5068.970	42.672 -106.00000
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124.220	5068.970	42.676 -108.00000
124.220	5068.970	42.676 -108.00000
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124.220	5068.970	42.678 -108.00000
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124.220	5071.138	44.843 -108.00000
124.220	5071.138	44.844 -108.00000
124.220	5071.138	44.845 -108.00000
124.220	5071.138	44.845 -108.00000
124.220	5071.138	44.846 -108.00000
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124.220	5073.307	47.012 -108.00000
124.220	5073.307	47.012 -108.00000
124.220	5073.307	47.013 -108.00000
124.220	5073.307	47.014 -108.00000
124.220	5073.307	47.014 -108.00000
124.220	5075.475	49.177 -102.00000
124.220	5075.475	49.178 -106.00000
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124.220	5075.475	49.182 -108.00000
124.220	5075.475	49.183 -108.00000
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124.220	5077.644	51.346 -106.00000
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124.220	5077.644	51.347 -108.00000
124.220	5077.644	51.348 -108.00000

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124.220	5077.644	51.349	-108.00000
124.220	5077.644	51.349	-108.00000
124.220	5077.644	51.350	-108.00000
124.220	5077.644	51.350	-108.00000
124.220	5077.644	51.351	-108.00000
124.220	5079.813	53.514	-102.00000
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124.220	5084.150	57.856	-108.00000
124.220	5084.150	57.856	-108.00000
124.220	5086.318	59.944	788.36100
124.220	5086.318	59.952	292.06400
124.220	5086.318	59.959	179.41900
124.220	5086.318	59.967	129.57700
124.220	5086.318	59.975	101.46700
124.220	5086.318	59.982	83.41830
124.220	5086.318	59.990	70.84980
124.220	5086.318	59.998	61.59440
124.220	5086.318	60.005	54.49460
124.220	5086.318	60.013	48.87590
124.220	5086.318	60.021	43.98990
124.220	5088.487	61.509	98.27640
124.220	5088.487	61.574	35.63670
124.220	5088.487	61.639	21.95500
124.220	5088.487	61.704	15.35280

124.220	5088.487	61.768	11.78760
124.220	5088.487	61.833	9.57877
124.220	5088.487	61.898	8.08120
124.220	5088.487	61.963	6.89658
124.220	5088.487	62.028	5.99052
124.220	5088.487	62.092	5.30050
124.220	5088.487	62.157	4.75961
124.220	5090.656	63.074	52.67570
124.220	5090.656	63.196	19.24890
124.220	5090.656	63.318	11.87230
124.220	5090.656	63.440	8.36517
124.220	5090.656	63.562	6.48606
124.220	5090.656	63.684	5.26315
124.220	5090.656	63.806	4.38456
124.220	5090.656	63.928	3.77248
124.220	5090.656	64.050	3.32514
124.220	5090.656	64.172	2.98598
124.220	5090.656	64.294	2.70298
124.220	5092.824	64.640	36.10540
124.220	5092.824	64.819	13.31020
124.220	5092.824	64.998	8.32661
124.220	5092.824	65.177	5.91294
124.220	5092.824	65.356	4.62177
124.220	5092.824	65.535	3.69423
124.220	5092.824	65.714	3.03610
124.220	5092.824	65.893	2.60404
124.220	5092.824	66.072	2.30249
124.220	5092.824	66.252	2.08267
124.220	5092.824	66.431	1.91717
124.220	5094.993	66.205	27.53680
124.220	5094.993	66.441	10.24270
124.220	5094.993	66.677	6.48101
124.220	5094.993	66.913	4.51268
124.220	5094.993	67.150	3.47558
124.220	5094.993	67.386	2.79064
124.220	5094.993	67.622	2.36362
124.220	5094.993	67.859	2.07818
124.220	5094.993	68.095	1.87779
124.220	5094.993	68.331	1.73210
124.220	5094.993	68.567	1.62343
124.220	5097.161	67.770	22.30100
124.220	5097.161	68.063	8.36944
124.220	5097.161	68.357	5.04878
124.220	5097.161	68.650	3.65577
124.220	5097.161	68.943	2.90068
124.220	5097.161	69.237	2.37255
124.220	5097.161	69.530	2.04260
124.220	5097.161	69.824	1.82349
124.220	5097.161	70.117	1.67167
124.220	5097.161	70.411	1.56335
124.220	5097.161	70.704	1.48452
124.220	5099.330	69.335	18.77040
124.220	5099.330	69.685	6.63527
124.220	5099.330	70.036	4.27410

FIGURE 4 D-D' DATA

126.388	5064.632	38.359 -1000.00000
126.388	5064.632	38.359 -1000.00000
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126.388	5086.318	60.036	-1000.00000
126.388	5086.318	60.036	-1000.00000
126.388	5086.318	60.036	-1000.00000
126.388	5086.318	60.036	-1000.00000
126.388	5088.487	62.204	-1000.00000
126.388	5088.487	62.204	-1000.00000
126.388	5088.487	62.204	-1000.00000
126.388	5088.487	62.204	-1000.00000
126.388	5088.487	62.204	-1000.00000
126.388	5088.487	62.204	-1000.00000
126.388	5088.487	62.204	-1000.00000
126.388	5088.487	62.204	-1000.00000
126.388	5088.487	62.204	-1000.00000
126.388	5088.487	62.204	-1000.00000
126.388	5090.656	64.372	-1000.00000
126.388	5090.656	64.372	-1000.00000
126.388	5090.656	64.372	-1000.00000
126.388	5090.656	64.372	-1000.00000
126.388	5090.656	64.372	-1000.00000
126.388	5090.656	64.372	-1000.00000
126.388	5090.656	64.372	-1000.00000
126.388	5090.656	64.372	-1000.00000
126.388	5090.656	64.372	-1000.00000
126.388	5090.656	64.372	-1000.00000
126.388	5092.824	66.097	150.97600
126.388	5092.824	66.139	54.60730
126.388	5092.824	66.181	33.52110
126.388	5092.824	66.223	24.28050
126.388	5092.824	66.265	19.09270
126.388	5092.824	66.307	15.77100
126.388	5092.824	66.349	13.46210
126.388	5092.824	66.391	11.57480
126.388	5092.824	66.433	10.13740
126.388	5092.824	66.475	9.02227
126.388	5092.824	66.517	8.13311
126.388	5094.993	67.662	64.64950
126.388	5094.993	67.761	23.53430
126.388	5094.993	67.860	14.57480
126.388	5094.993	67.959	10.65300
126.388	5094.993	68.058	8.39376
126.388	5094.993	68.158	6.82241
126.388	5094.993	68.257	5.76289
126.388	5094.993	68.356	5.00246
126.388	5094.993	68.455	4.39672
126.388	5094.993	68.554	3.85716

126.388	5094.993	68.653	3.41600
126.388	5097.161	69.227	41.29440
126.388	5097.161	69.383	15.16310
126.388	5097.161	69.540	9.47558
126.388	5097.161	69.696	6.98696
126.388	5097.161	69.852	5.38568
126.388	5097.161	70.008	4.30549
126.388	5097.161	70.165	3.62115
126.388	5097.161	70.321	3.08567
126.388	5097.161	70.477	2.70363
126.388	5097.161	70.633	2.42174
126.388	5097.161	70.790	2.20725
126.388	5099.330	70.792	30.42260
126.388	5099.330	71.006	11.27150
126.388	5099.330	71.219	6.87846
126.388	5099.330	71.432	4.97745
126.388	5099.330	71.646	3.88785
126.388	5099.330	71.859	3.21375
126.388	5099.330	72.073	2.72886
126.388	5099.330	72.286	2.37033
126.388	5099.330	72.499	2.11605
126.388	5099.330	72.713	1.92932
126.388	5099.330	72.926	1.78855
128.557	5055.958	29.872	-1000.00000
128.557	5055.958	29.872	-1000.00000
128.557	5055.958	29.872	-1000.00000
128.557	5055.958	29.872	-1000.00000
128.557	5055.958	29.872	-1000.00000
128.557	5055.958	29.872	-1000.00000
128.557	5055.958	29.872	-1000.00000
128.557	5055.958	29.872	-1000.00000
128.557	5055.958	29.872	-1000.00000
128.557	5055.958	29.872	-1000.00000
128.557	5055.958	29.872	-1000.00000
128.557	5058.126	32.026	-1000.00000
128.557	5058.126	32.026	-1000.00000
128.557	5058.126	32.026	-1000.00000
128.557	5058.126	32.026	-1000.00000
128.557	5058.126	32.026	-1000.00000
128.557	5058.126	32.026	-1000.00000
128.557	5058.126	32.026	-1000.00000
128.557	5058.126	32.026	-1000.00000
128.557	5058.126	32.026	-1000.00000
128.557	5058.126	32.026	-1000.00000
128.557	5058.126	32.026	-1000.00000
128.557	5058.126	32.026	-1000.00000
128.557	5060.295	34.182	-1000.00000
128.557	5060.295	34.182	-1000.00000
128.557	5060.295	34.182	-1000.00000
128.557	5060.295	34.182	-1000.00000
128.557	5060.295	34.182	-1000.00000
128.557	5060.295	34.182	-1000.00000
128.557	5060.295	34.182	-1000.00000
128.557	5060.295	34.182	-1000.00000
128.557	5060.295	34.182	-1000.00000
128.557	5060.295	34.182	-1000.00000
128.557	5060.295	34.182	-1000.00000

FIGURE 4 D-D' DATA

[illegible]

128.557	5071.138	44.980 -1000.00000
128.557	5071.138	44.980 -1000.00000
128.557	5071.138	44.980 -1000.00000
128.557	5073.307	47.142 -1000.00000
128.557	5073.307	47.142 -1000.00000
128.557	5073.307	47.142 -1000.00000
128.557	5073.307	47.142 -1000.00000
128.557	5073.307	47.142 -1000.00000
128.557	5073.307	47.142 -1000.00000
128.557	5073.307	47.142 -1000.00000
128.557	5073.307	47.142 -1000.00000
128.557	5073.307	47.142 -1000.00000
128.557	5073.307	47.142 -1000.00000
128.557	5073.307	47.142 -1000.00000
128.557	5075.475	49.305 -1000.00000
128.557	5075.475	49.305 -1000.00000
128.557	5075.475	49.305 -1000.00000
128.557	5075.475	49.305 -1000.00000
128.557	5075.475	49.305 -1000.00000
128.557	5075.475	49.305 -1000.00000
128.557	5075.475	49.305 -1000.00000
128.557	5075.475	49.305 -1000.00000
128.557	5075.475	49.305 -1000.00000
128.557	5075.475	49.305 -1000.00000
128.557	5075.475	49.305 -1000.00000
128.557	5075.475	49.305 -1000.00000
128.557	5077.644	51.468 -1000.00000
128.557	5077.644	51.468 -1000.00000
128.557	5077.644	51.468 -1000.00000
128.557	5077.644	51.468 -1000.00000
128.557	5077.644	51.468 -1000.00000
128.557	5077.644	51.468 -1000.00000
128.557	5077.644	51.468 -1000.00000
128.557	5077.644	51.468 -1000.00000
128.557	5077.644	51.468 -1000.00000
128.557	5077.644	51.468 -1000.00000
128.557	5077.644	51.468 -1000.00000
128.557	5079.813	53.632 -1000.00000
128.557	5079.813	53.632 -1000.00000
128.557	5079.813	53.632 -1000.00000
128.557	5079.813	53.632 -1000.00000
128.557	5079.813	53.632 -1000.00000
128.557	5079.813	53.632 -1000.00000
128.557	5079.813	53.632 -1000.00000
128.557	5079.813	53.632 -1000.00000
128.557	5079.813	53.632 -1000.00000
128.557	5079.813	53.632 -1000.00000
128.557	5079.813	53.632 -1000.00000
128.557	5081.981	55.796 -1000.00000
128.557	5081.981	55.796 -1000.00000
128.557	5081.981	55.796 -1000.00000
128.557	5081.981	55.796 -1000.00000
128.557	5081.981	55.796 -1000.00000
128.557	5081.981	55.796 -1000.00000

128.557	5081.981	55.796 -1000.00000
128.557	5081.981	55.796 -1000.00000
128.557	5081.981	55.796 -1000.00000
128.557	5081.981	55.796 -1000.00000
128.557	5084.150	57.960 -1000.00000
128.557	5084.150	57.960 -1000.00000
128.557	5084.150	57.960 -1000.00000
128.557	5084.150	57.960 -1000.00000
128.557	5084.150	57.960 -1000.00000
128.557	5084.150	57.960 -1000.00000
128.557	5084.150	57.960 -1000.00000
128.557	5084.150	57.960 -1000.00000
128.557	5084.150	57.960 -1000.00000
128.557	5084.150	57.960 -1000.00000
128.557	5084.150	57.960 -1000.00000
128.557	5086.318	60.125 -1000.00000
128.557	5086.318	60.125 -1000.00000
128.557	5086.318	60.125 -1000.00000
128.557	5086.318	60.125 -1000.00000
128.557	5086.318	60.125 -1000.00000
128.557	5086.318	60.125 -1000.00000
128.557	5086.318	60.125 -1000.00000
128.557	5086.318	60.125 -1000.00000
128.557	5086.318	60.125 -1000.00000
128.557	5086.318	60.125 -1000.00000
128.557	5086.318	60.125 -1000.00000
128.557	5086.318	60.125 -1000.00000
128.557	5086.318	60.125 -1000.00000
128.557	5088.487	62.290 -1000.00000
128.557	5088.487	62.290 -1000.00000
128.557	5088.487	62.290 -1000.00000
128.557	5088.487	62.290 -1000.00000
128.557	5088.487	62.290 -1000.00000
128.557	5088.487	62.290 -1000.00000
128.557	5088.487	62.290 -1000.00000
128.557	5088.487	62.290 -1000.00000
128.557	5088.487	62.290 -1000.00000
128.557	5088.487	62.290 -1000.00000
128.557	5088.487	62.290 -1000.00000
128.557	5088.487	62.290 -1000.00000
128.557	5090.656	64.455 -1000.00000
128.557	5090.656	64.455 -1000.00000
128.557	5090.656	64.455 -1000.00000
128.557	5090.656	64.455 -1000.00000
128.557	5090.656	64.455 -1000.00000
128.557	5090.656	64.455 -1000.00000
128.557	5090.656	64.455 -1000.00000
128.557	5090.656	64.455 -1000.00000
128.557	5090.656	64.455 -1000.00000
128.557	5090.656	64.455 -1000.00000
128.557	5090.656	64.455 -1000.00000
128.557	5090.656	64.455 -1000.00000
128.557	5090.656	64.455 -1000.00000
128.557	5092.824	66.621 -1000.00000
128.557	5092.824	66.621 -1000.00000
128.557	5092.824	66.621 -1000.00000
128.557	5092.824	66.621 -1000.00000
128.557	5092.824	66.621 -1000.00000

128.557	5092.824	66.621	-1000.00000
128.557	5092.824	66.621	-1000.00000
128.557	5092.824	66.621	-1000.00000
128.557	5092.824	66.621	-1000.00000
128.557	5092.824	66.621	-1000.00000
128.557	5094.993	68.786	-1000.00000
128.557	5094.993	68.786	-1000.00000
128.557	5094.993	68.786	-1000.00000
128.557	5094.993	68.786	-1000.00000
128.557	5094.993	68.786	-1000.00000
128.557	5094.993	68.786	-1000.00000
128.557	5094.993	68.786	-1000.00000
128.557	5094.993	68.786	-1000.00000
128.557	5094.993	68.786	-1000.00000
128.557	5094.993	68.786	-1000.00000
128.557	5097.161	70.688	251.73500
128.557	5097.161	70.713	91.00880
128.557	5097.161	70.738	55.73320
128.557	5097.161	70.763	40.26220
128.557	5097.161	70.788	31.57320
128.557	5097.161	70.813	26.00840
128.557	5097.161	70.838	22.13960
128.557	5097.161	70.863	19.29410
128.557	5097.161	70.888	17.11320
128.557	5097.161	70.913	15.38850
128.557	5097.161	70.938	13.99030
128.557	5099.330	72.253	78.02730
128.557	5099.330	72.335	28.32200
128.557	5099.330	72.417	17.48940
128.557	5099.330	72.499	12.74730
128.557	5099.330	72.581	10.08650
128.557	5099.330	72.663	8.38347
128.557	5099.330	72.745	7.20000
128.557	5099.330	72.827	6.27262
128.557	5099.330	72.908	5.41095
128.557	5099.330	72.990	4.76934
128.557	5099.330	73.072	4.27749
130.726	5055.958	30.207	-1000.00000
130.726	5055.958	30.207	-1000.00000
130.726	5055.958	30.207	-1000.00000
130.726	5055.958	30.207	-1000.00000
130.726	5055.958	30.207	-1000.00000
130.726	5055.958	30.207	-1000.00000
130.726	5055.958	30.207	-1000.00000
130.726	5055.958	30.207	-1000.00000
130.726	5055.958	30.207	-1000.00000
130.726	5055.958	30.207	-1000.00000
130.726	5055.958	30.207	-1000.00000
130.726	5058.126	32.339	-1000.00000
130.726	5058.126	32.339	-1000.00000
130.726	5058.126	32.339	-1000.00000
130.726	5058.126	32.339	-1000.00000
130.726	5058.126	32.339	-1000.00000

FIGURE 4 D-D' DATA

130.726	5068.970	43.053 -1000.00000
130.726	5068.970	43.053 -1000.00000
130.726	5068.970	43.053 -1000.00000
130.726	5068.970	43.053 -1000.00000
130.726	5068.970	43.053 -1000.00000
130.726	5068.970	43.053 -1000.00000
130.726	5068.970	43.053 -1000.00000
130.726	5071.138	45.204 -1000.00000
130.726	5071.138	45.204 -1000.00000
130.726	5071.138	45.204 -1000.00000
130.726	5071.138	45.204 -1000.00000
130.726	5071.138	45.204 -1000.00000
130.726	5071.138	45.204 -1000.00000
130.726	5071.138	45.204 -1000.00000
130.726	5071.138	45.204 -1000.00000
130.726	5071.138	45.204 -1000.00000
130.726	5071.138	45.204 -1000.00000
130.726	5073.307	47.355 -1000.00000
130.726	5073.307	47.355 -1000.00000
130.726	5073.307	47.355 -1000.00000
130.726	5073.307	47.355 -1000.00000
130.726	5073.307	47.355 -1000.00000
130.726	5073.307	47.355 -1000.00000
130.726	5073.307	47.355 -1000.00000
130.726	5073.307	47.355 -1000.00000
130.726	5073.307	47.355 -1000.00000
130.726	5073.307	47.355 -1000.00000
130.726	5073.307	47.355 -1000.00000
130.726	5075.475	49.509 -1000.00000
130.726	5075.475	49.509 -1000.00000
130.726	5075.475	49.509 -1000.00000
130.726	5075.475	49.509 -1000.00000
130.726	5075.475	49.509 -1000.00000
130.726	5075.475	49.509 -1000.00000
130.726	5075.475	49.509 -1000.00000
130.726	5075.475	49.509 -1000.00000
130.726	5075.475	49.509 -1000.00000
130.726	5075.475	49.509 -1000.00000
130.726	5075.475	49.509 -1000.00000
130.726	5075.475	49.509 -1000.00000
130.726	5077.644	51.664 -1000.00000
130.726	5077.644	51.664 -1000.00000
130.726	5077.644	51.664 -1000.00000
130.726	5077.644	51.664 -1000.00000
130.726	5077.644	51.664 -1000.00000
130.726	5077.644	51.664 -1000.00000
130.726	5077.644	51.664 -1000.00000
130.726	5077.644	51.664 -1000.00000
130.726	5077.644	51.664 -1000.00000
130.726	5077.644	51.664 -1000.00000
130.726	5077.644	51.664 -1000.00000
130.726	5077.644	51.664 -1000.00000
130.726	5079.813	53.819 -1000.00000
130.726	5079.813	53.819 -1000.00000
130.726	5079.813	53.819 -1000.00000

130.726	5079.813	53.819 -1000.00000
130.726	5079.813	53.819 -1000.00000
130.726	5079.813	53.819 -1000.00000
130.726	5079.813	53.819 -1000.00000
130.726	5079.813	53.819 -1000.00000
130.726	5079.813	53.819 -1000.00000
130.726	5079.813	53.819 -1000.00000
130.726	5079.813	53.819 -1000.00000
130.726	5081.981	55.976 -1000.00000
130.726	5081.981	55.976 -1000.00000
130.726	5081.981	55.976 -1000.00000
130.726	5081.981	55.976 -1000.00000
130.726	5081.981	55.976 -1000.00000
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130.726	5081.981	55.976 -1000.00000
130.726	5081.981	55.976 -1000.00000
130.726	5081.981	55.976 -1000.00000
130.726	5081.981	55.976 -1000.00000
130.726	5081.981	55.976 -1000.00000
130.726	5084.150	58.134 -1000.00000
130.726	5084.150	58.134 -1000.00000
130.726	5084.150	58.134 -1000.00000
130.726	5084.150	58.134 -1000.00000
130.726	5084.150	58.134 -1000.00000
130.726	5084.150	58.134 -1000.00000
130.726	5084.150	58.134 -1000.00000
130.726	5084.150	58.134 -1000.00000
130.726	5084.150	58.134 -1000.00000
130.726	5084.150	58.134 -1000.00000
130.726	5084.150	58.134 -1000.00000
130.726	5084.150	58.134 -1000.00000
130.726	5084.150	58.134 -1000.00000
130.726	5084.150	58.134 -1000.00000
130.726	5086.318	60.292 -1000.00000
130.726	5086.318	60.292 -1000.00000
130.726	5086.318	60.292 -1000.00000
130.726	5086.318	60.292 -1000.00000
130.726	5086.318	60.292 -1000.00000
130.726	5086.318	60.292 -1000.00000
130.726	5086.318	60.292 -1000.00000
130.726	5086.318	60.292 -1000.00000
130.726	5086.318	60.292 -1000.00000
130.726	5086.318	60.292 -1000.00000
130.726	5086.318	60.292 -1000.00000
130.726	5086.318	60.292 -1000.00000
130.726	5086.318	60.292 -1000.00000
130.726	5086.318	60.292 -1000.00000
130.726	5086.318	60.292 -1000.00000
130.726	5088.487	62.451 -1000.00000
130.726	5088.487	62.451 -1000.00000
130.726	5088.487	62.451 -1000.00000
130.726	5088.487	62.451 -1000.00000
130.726	5088.487	62.451 -1000.00000
130.726	5088.487	62.451 -1000.00000
130.726	5088.487	62.451 -1000.00000
130.726	5088.487	62.451 -1000.00000
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130.726	5088.487	62.451 -1000.00000
130.726	5088.487	62.451 -1000.00000
130.726	5088.487	62.451 -1000.00000
130.726	5088.487	62.451 -1000.00000
130.726	5088.487	62.451 -1000.00000
130.726	5088.487	62.451 -1000.00000
130.726	5090.656	64.611 -1000.00000
130.726	5090.656	64.611 -1000.00000

130.726	5090.656	64.611 -1000.00000
130.726	5090.656	64.611 -1000.00000
130.726	5090.656	64.611 -1000.00000
130.726	5090.656	64.611 -1000.00000
130.726	5090.656	64.611 -1000.00000
130.726	5090.656	64.611 -1000.00000
130.726	5090.656	64.611 -1000.00000
130.726	5090.656	64.611 -1000.00000
130.726	5090.656	64.611 -1000.00000
130.726	5092.824	66.772 -1000.00000
130.726	5092.824	66.772 -1000.00000
130.726	5092.824	66.772 -1000.00000
130.726	5092.824	66.772 -1000.00000
130.726	5092.824	66.772 -1000.00000
130.726	5092.824	66.772 -1000.00000
130.726	5092.824	66.772 -1000.00000
130.726	5092.824	66.772 -1000.00000
130.726	5092.824	66.772 -1000.00000
130.726	5092.824	66.772 -1000.00000
130.726	5092.824	66.772 -1000.00000
130.726	5092.824	66.772 -1000.00000
130.726	5092.824	66.772 -1000.00000
130.726	5094.993	68.932 -1000.00000
130.726	5094.993	68.932 -1000.00000
130.726	5094.993	68.932 -1000.00000
130.726	5094.993	68.932 -1000.00000
130.726	5094.993	68.932 -1000.00000
130.726	5094.993	68.932 -1000.00000
130.726	5094.993	68.932 -1000.00000
130.726	5094.993	68.932 -1000.00000
130.726	5094.993	68.932 -1000.00000
130.726	5094.993	68.932 -1000.00000
130.726	5094.993	68.932 -1000.00000
130.726	5094.993	68.932 -1000.00000
130.726	5094.993	68.932 -1000.00000
130.726	5097.161	71.094 -1000.00000
130.726	5097.161	71.094 -1000.00000
130.726	5097.161	71.094 -1000.00000
130.726	5097.161	71.094 -1000.00000
130.726	5097.161	71.094 -1000.00000
130.726	5097.161	71.094 -1000.00000
130.726	5097.161	71.094 -1000.00000
130.726	5097.161	71.094 -1000.00000
130.726	5097.161	71.094 -1000.00000
130.726	5097.161	71.094 -1000.00000
130.726	5097.161	71.094 -1000.00000
130.726	5097.161	71.094 -1000.00000
130.726	5099.330	73.256 -1000.00000
130.726	5099.330	73.256 -1000.00000
130.726	5099.330	73.256 -1000.00000
130.726	5099.330	73.256 -1000.00000
130.726	5099.330	73.256 -1000.00000
130.726	5099.330	73.256 -1000.00000
130.726	5099.330	73.256 -1000.00000
130.726	5099.330	73.256 -1000.00000
130.726	5099.330	73.256 -1000.00000
130.726	5099.330	73.256 -1000.00000
130.726	5099.330	73.256 -1000.00000
130.726	5099.330	73.256 -1000.00000

Raw Data for Minimum Circle Results

Center_x	Center_y	Radius	Factor_of_Safety
87.353	5055.958	17.376	1.50501
87.353	5058.126	18.887	1.47508
87.353	5060.295	20.406	1.53715
87.353	5062.464	21.931	1.60643
87.353	5064.632	26.631	1.60489
87.353	5066.801	28.172	1.59649
87.353	5068.970	29.722	1.60180
87.353	5071.138	31.281	1.67070
87.353	5073.307	32.871	1.75466
87.353	5075.475	34.532	1.84859
87.353	5077.644	39.459	1.89966
87.353	5079.813	41.231	1.91078
87.353	5081.981	43.044	1.92673
87.353	5084.150	44.891	1.94888
87.353	5086.318	46.769	1.98177
87.353	5088.487	48.672	2.05047
87.353	5090.656	50.598	2.11473
87.353	5092.824	52.544	2.17991
87.353	5094.993	54.506	2.24597
87.353	5097.161	56.484	2.31283
87.353	5099.330	58.476	2.38056
89.522	5055.958	18.459	1.51178
89.522	5058.126	19.977	1.46945
89.522	5060.295	21.502	1.46428
89.522	5062.464	23.034	1.52529
89.522	5064.632	27.467	1.52746
89.522	5066.801	29.019	1.52590
89.522	5068.970	30.579	1.53340
89.522	5071.138	32.147	1.55829
89.522	5073.307	33.722	1.63606
89.522	5075.475	35.325	1.72346
89.522	5077.644	39.963	1.77752
89.522	5079.813	41.694	1.79147
89.522	5081.981	43.470	1.81096
89.522	5084.150	45.285	1.83699
89.522	5086.318	47.132	1.87192
89.522	5088.487	49.008	1.92183
89.522	5090.656	50.910	1.99669
89.522	5092.824	52.833	2.06017
89.522	5094.993	54.776	2.12450
89.522	5097.161	56.736	2.18964
89.522	5099.330	58.711	2.25554
91.691	5055.958	19.548	1.51593
91.691	5058.126	21.073	1.49239
91.691	5060.295	22.605	1.46563
91.691	5062.464	26.763	1.46835
91.691	5064.632	28.315	1.46214
91.691	5066.801	29.877	1.46377
91.691	5068.970	31.447	1.47362
91.691	5071.138	33.024	1.49456
91.691	5073.307	34.609	1.53462
91.691	5075.475	36.199	1.61854
91.691	5077.644	40.548	1.67492

91.691	5079.813	42.240	1.69055
91.691	5081.981	43.979	1.71203
91.691	5084.150	45.759	1.73999
91.691	5086.318	47.576	1.77580
91.691	5088.487	49.424	1.82214
91.691	5090.656	51.300	1.88491
91.691	5092.824	53.199	1.95658
91.691	5094.993	55.121	2.01905
91.691	5097.161	57.061	2.08226
91.691	5099.330	61.831	2.13808
93.859	5055.958	22.984	1.50747
93.859	5058.126	24.515	1.46314
93.859	5060.295	26.058	1.43332
93.859	5062.464	27.612	1.41836
93.859	5064.632	29.175	1.41175
93.859	5066.801	30.747	1.41385
93.859	5068.970	32.327	1.42414
93.859	5071.138	33.914	1.44371
93.859	5073.307	35.507	1.47593
93.859	5075.475	37.107	1.52863
93.859	5077.644	41.206	1.58857
93.859	5079.813	42.860	1.60524
93.859	5081.981	44.563	1.62781
93.859	5084.150	46.310	1.65671
93.859	5086.318	48.095	1.69277
93.859	5088.487	49.914	1.73745
93.859	5090.656	51.763	1.79332
93.859	5092.824	53.638	1.86519
93.859	5094.993	55.537	1.92842
93.859	5097.161	60.096	1.97115
93.859	5099.330	62.040	1.99970
96.028	5055.958	23.810	1.47564
96.028	5058.126	25.353	1.44636
96.028	5060.295	26.908	1.41035
96.028	5062.464	28.474	1.38979
96.028	5064.632	30.048	1.37934
96.028	5066.801	31.631	1.37914
96.028	5068.970	33.220	1.38789
96.028	5071.138	34.817	1.40554
96.028	5073.307	36.420	1.43353
96.028	5075.475	38.027	1.47548
96.028	5077.644	41.898	1.51486
96.028	5079.813	43.548	1.53358
96.028	5081.981	45.217	1.55676
96.028	5084.150	46.931	1.58608
96.028	5086.318	48.686	1.62209
96.028	5088.487	50.475	1.66564
96.028	5090.656	52.297	1.71810
96.028	5092.824	54.147	1.78169
96.028	5094.993	58.474	1.82660
96.028	5097.161	60.385	1.85481
96.028	5099.330	62.315	1.88401
98.196	5055.958	28.232	1.44268
98.196	5058.126	26.205	1.43540

98.196	5060.295	27.773	1.41723
98.196	5062.464	29.350	1.38906
98.196	5064.632	30.935	1.37002
98.196	5066.801	32.529	1.36385
98.196	5068.970	34.128	1.36836
98.196	5071.138	35.734	1.38246
98.196	5073.307	37.346	1.40638
98.196	5075.475	40.954	1.43597
98.196	5077.644	42.609	1.45322
98.196	5079.813	44.270	1.47359
98.196	5081.981	45.936	1.49783
98.196	5084.150	47.618	1.52733
98.196	5086.318	49.342	1.56315
98.196	5088.487	51.103	1.60582
98.196	5090.656	52.897	1.65616
98.196	5092.824	56.971	1.70143
98.196	5094.993	58.843	1.72887
98.196	5097.161	60.737	1.75758
98.196	5099.330	62.651	1.78744
100.365	5055.958	28.554	1.38298
100.365	5058.126	31.693	1.36755
100.365	5060.295	33.327	1.38498
100.365	5062.464	31.822	1.37627
100.365	5064.632	33.443	1.36038
100.365	5066.801	35.074	1.35404
100.365	5068.970	36.714	1.35490
100.365	5071.138	38.361	1.36131
100.365	5073.307	40.015	1.37214
100.365	5075.475	41.676	1.38667
100.365	5077.644	43.341	1.40453
100.365	5079.813	45.012	1.42566
100.365	5081.981	46.687	1.45041
100.365	5084.150	48.367	1.47998
100.365	5086.318	50.061	1.51560
100.365	5088.487	51.794	1.55760
100.365	5090.656	55.592	1.59380
100.365	5092.824	57.421	1.62003
100.365	5094.993	59.274	1.64778
100.365	5097.161	61.151	1.67693
100.365	5099.330	63.048	1.70738
102.534	5055.958	28.906	1.33901
102.534	5058.126	31.815	1.31902
102.534	5060.295	33.477	1.32874
102.534	5062.464	35.156	1.34225
102.534	5064.632	35.487	1.35514
102.534	5066.801	35.768	1.33942
102.534	5068.970	37.421	1.33275
102.534	5071.138	39.081	1.33400
102.534	5073.307	40.747	1.34134
102.534	5075.475	42.419	1.35365
102.534	5077.644	44.095	1.37022
102.534	5079.813	45.776	1.39077
102.534	5081.981	47.460	1.41542
102.534	5084.150	49.148	1.44472

102.534	5086.318	50.839	1.47944
102.534	5088.487	54.341	1.50271
102.534	5090.656	56.121	1.52731
102.534	5092.824	57.930	1.55369
102.534	5094.993	59.765	1.58171
102.534	5097.161	61.623	1.61123
102.534	5099.330	63.503	1.64215
104.702	5055.958	29.291	1.30729
104.702	5058.126	31.977	1.28828
104.702	5060.295	33.666	1.30912
104.702	5062.464	36.470	1.28183
104.702	5064.632	38.222	1.29843
104.702	5066.801	39.988	1.31958
104.702	5068.970	39.358	1.32223
104.702	5071.138	41.069	1.32238
104.702	5073.307	42.787	1.32834
104.702	5075.475	44.511	1.33870
104.702	5077.644	46.240	1.35238
104.702	5079.813	47.974	1.36859
104.702	5081.981	49.712	1.38682
104.702	5084.150	51.453	1.40646
104.702	5086.318	53.199	1.42772
104.702	5088.487	54.947	1.45055
104.702	5090.656	56.708	1.47514
104.702	5092.824	58.497	1.50161
104.702	5094.993	60.312	1.52981
104.702	5097.161	62.152	1.55960
104.702	5099.330	64.015	1.59086
106.871	5055.958	30.483	1.23731
106.871	5058.126	32.183	1.27943
106.871	5060.295	34.733	1.26110
106.871	5062.464	36.498	1.27907
106.871	5064.632	38.277	1.28163
106.871	5066.801	41.014	1.26584
106.871	5068.970	42.856	1.28682
106.871	5071.138	42.652	1.30961
106.871	5073.307	43.355	1.31220
106.871	5075.475	45.092	1.31527
106.871	5077.644	46.833	1.32372
106.871	5079.813	48.578	1.33627
106.871	5081.981	50.326	1.35199
106.871	5084.150	52.078	1.37029
106.871	5086.318	53.833	1.39080
106.871	5088.487	55.590	1.41306
106.871	5090.656	57.349	1.43737
106.871	5092.824	59.119	1.46380
106.871	5094.993	60.916	1.49203
106.871	5097.161	62.737	1.52192
106.871	5099.330	64.581	1.55334
109.039	5055.958	28.035	1.01281
109.039	5058.126	33.008	1.24633
109.039	5060.295	34.788	1.28200
109.039	5062.464	37.229	1.25906
109.039	5064.632	39.075	1.27133

109.039	5066.801	40.932	1.26682
109.039	5068.970	43.576	1.24480
109.039	5071.138	45.497	1.26245
109.039	5073.307	47.427	1.28514
109.039	5075.475	46.620	1.30075
109.039	5077.644	48.420	1.30597
109.039	5079.813	50.224	1.31615
109.039	5081.981	52.032	1.32994
109.039	5084.150	53.842	1.34640
109.039	5086.318	55.655	1.36484
109.039	5088.487	57.471	1.38449
109.039	5090.656	59.289	1.40538
109.039	5092.824	61.109	1.42730
109.039	5094.993	62.938	1.45017
109.039	5097.161	64.788	1.47403
109.039	5099.330	66.659	1.49875
111.208	5055.958	29.443	1.00469
111.208	5058.126	30.999	1.00754
111.208	5060.295	35.687	1.25881
111.208	5062.464	37.594	1.28073
111.208	5064.632	39.992	1.25219
111.208	5066.801	41.967	1.25464
111.208	5068.970	43.952	1.23965
111.208	5071.138	45.946	1.23848
111.208	5073.307	47.946	1.24844
111.208	5075.475	49.954	1.26595
111.208	5077.644	51.967	1.28878
111.208	5079.813	51.522	1.29858
111.208	5081.981	53.391	1.30945
111.208	5084.150	55.263	1.32417
111.208	5086.318	56.161	1.33907
111.208	5088.487	57.986	1.35515
111.208	5090.656	59.812	1.37341
111.208	5092.824	61.640	1.39311
111.208	5094.993	63.469	1.41420
111.208	5097.161	65.305	1.43655
111.208	5099.330	67.162	1.45986
113.377	5055.958	31.746	1.00293
113.377	5058.126	32.486	1.00364
113.377	5060.295	33.974	1.00242
113.377	5062.464	35.534	1.00291
113.377	5064.632	39.901	1.34396
113.377	5066.801	41.954	1.32821
113.377	5068.970	44.015	1.31113
113.377	5071.138	46.082	1.27906
113.377	5073.307	48.156	1.25264
113.377	5075.475	50.235	1.24762
113.377	5077.644	52.319	1.25581
113.377	5079.813	54.407	1.27256
113.377	5081.981	55.117	1.29238
113.377	5084.150	56.361	1.30238
113.377	5086.318	58.299	1.31687
113.377	5088.487	59.387	1.33064
113.377	5090.656	61.274	1.34634

113.377	5092.824	63.162	1.36415
113.377	5094.993	65.052	1.38339
113.377	5097.161	66.943	1.40397
113.377	5099.330	68.840	1.42561
115.545	5055.958	29.733	-108.00000
115.545	5058.126	31.897	-108.00000
115.545	5060.295	34.061	-108.00000
115.545	5062.464	36.992	1.00114
115.545	5064.632	38.494	1.00046
115.545	5066.801	41.512	1.65359
115.545	5068.970	43.597	1.56024
115.545	5071.138	45.688	1.47837
115.545	5073.307	47.782	1.41223
115.545	5075.475	49.880	1.33983
115.545	5077.644	51.982	1.28920
115.545	5079.813	54.086	1.27102
115.545	5081.981	56.192	1.27093
115.545	5084.150	58.301	1.28194
115.545	5086.318	59.160	1.29691
115.545	5088.487	61.163	1.30915
115.545	5090.656	62.432	1.32452
115.545	5092.824	64.382	1.33932
115.545	5094.993	66.333	1.35674
115.545	5097.161	68.285	1.37606
115.545	5099.330	70.238	1.39701
117.714	5055.958	29.703	-108.00000
117.714	5058.126	31.869	-108.00000
117.714	5060.295	34.035	-108.00000
117.714	5062.464	36.201	-108.00000
117.714	5064.632	38.368	-108.00000
117.714	5066.801	40.535	-108.00000
117.714	5068.970	43.091	1.00034
117.714	5071.138	45.386	2.50173
117.714	5073.307	47.498	1.98692
117.714	5075.475	49.611	1.72007
117.714	5077.644	51.727	1.55853
117.714	5079.813	53.844	1.41201
117.714	5081.981	55.963	1.33214
117.714	5084.150	58.083	1.29688
117.714	5086.318	60.204	1.28661
117.714	5088.487	62.327	1.29098
117.714	5090.656	63.877	1.30399
117.714	5092.824	65.946	1.31752
117.714	5094.993	67.330	1.33328
117.714	5097.161	69.343	1.34943
117.714	5099.330	71.357	1.36827
119.883	5055.958	29.681	-108.00000
119.883	5058.126	31.848	-108.00000
119.883	5060.295	34.016	-108.00000
119.883	5062.464	36.183	-108.00000
119.883	5064.632	38.351	-108.00000
119.883	5066.801	40.518	-108.00000
119.883	5068.970	42.686	-108.00000
119.883	5071.138	44.854	-108.00000

119.883	5073.307	47.022	-108.00000
119.883	5075.475	49.429	8.00310
119.883	5077.644	51.557	3.05970
119.883	5079.813	53.684	2.17456
119.883	5081.981	55.812	1.79822
119.883	5084.150	57.940	1.52735
119.883	5086.318	60.069	1.39902
119.883	5088.487	62.199	1.33827
119.883	5090.656	64.329	1.31263
119.883	5092.824	66.460	1.30670
119.883	5094.993	68.591	1.31284
119.883	5097.161	70.722	1.32682
119.883	5099.330	72.211	1.34298
122.051	5055.958	29.667	-108.00000
122.051	5058.126	31.835	-108.00000
122.051	5060.295	34.003	-108.00000
122.051	5062.464	36.171	-108.00000
122.051	5064.632	38.339	-108.00000
122.051	5066.801	40.508	-108.00000
122.051	5068.970	42.676	-108.00000
122.051	5071.138	44.844	-108.00000
122.051	5073.307	47.013	-108.00000
122.051	5075.475	49.181	-108.00000
122.051	5077.644	51.350	-108.00000
122.051	5079.813	53.518	-108.00000
122.051	5081.981	55.740	6.76349
122.051	5084.150	57.874	3.03572
122.051	5086.318	60.008	2.16959
122.051	5088.487	62.142	1.69321
122.051	5090.656	64.277	1.49369
122.051	5092.824	66.412	1.40128
122.051	5094.993	68.547	1.35538
122.051	5097.161	70.682	1.33611
122.051	5099.330	72.817	1.33276
124.220	5055.958	29.660	-106.00000
124.220	5058.126	31.828	-102.00000
124.220	5060.295	33.997	-102.00000
124.220	5062.464	36.165	-102.00000
124.220	5064.632	38.334	-102.00000
124.220	5066.801	40.503	-102.00000
124.220	5068.970	42.671	-102.00000
124.220	5071.138	44.840	-102.00000
124.220	5073.307	47.008	-102.00000
124.220	5075.475	49.177	-102.00000
124.220	5077.644	51.346	-102.00000
124.220	5079.813	53.514	-102.00000
124.220	5081.981	55.683	-102.00000
124.220	5084.150	57.851	-102.00000
124.220	5086.318	60.021	43.98990
124.220	5088.487	62.157	4.75961
124.220	5090.656	64.294	2.70298
124.220	5092.824	66.431	1.91717
124.220	5094.993	68.567	1.62343
124.220	5097.161	70.704	1.48452

124.220	5099.330	72.841	1.41500
126.388	5055.958	29.692	-1000.00000
126.388	5058.126	31.858	-1000.00000
126.388	5060.295	34.025	-1000.00000
126.388	5062.464	36.192	-1000.00000
126.388	5064.632	38.359	-1000.00000
126.388	5066.801	40.526	-1000.00000
126.388	5068.970	42.693	-1000.00000
126.388	5071.138	44.861	-1000.00000
126.388	5073.307	47.029	-1000.00000
126.388	5075.475	49.196	-1000.00000
126.388	5077.644	51.364	-1000.00000
126.388	5079.813	53.532	-1000.00000
126.388	5081.981	55.700	-1000.00000
126.388	5084.150	57.868	-1000.00000
126.388	5086.318	60.036	-1000.00000
126.388	5088.487	62.204	-1000.00000
126.388	5090.656	64.372	-1000.00000
126.388	5092.824	66.517	8.13311
126.388	5094.993	68.653	3.41600
126.388	5097.161	70.790	2.20725
126.388	5099.330	72.926	1.78855
128.557	5055.958	29.872	-1000.00000
128.557	5058.126	32.026	-1000.00000
128.557	5060.295	34.182	-1000.00000
128.557	5062.464	36.340	-1000.00000
128.557	5064.632	38.498	-1000.00000
128.557	5066.801	40.658	-1000.00000
128.557	5068.970	42.819	-1000.00000
128.557	5071.138	44.980	-1000.00000
128.557	5073.307	47.142	-1000.00000
128.557	5075.475	49.305	-1000.00000
128.557	5077.644	51.468	-1000.00000
128.557	5079.813	53.632	-1000.00000
128.557	5081.981	55.796	-1000.00000
128.557	5084.150	57.960	-1000.00000
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128.557	5099.330	73.072	4.27749
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File: J:\Cad Projects\GOOSE HAVEN RESERVOIR\dwg\Slope Stability\Dec 2016\Slide\th-1F.slim

Project Title: SLIDE - An Interactive Slope Stability Program

Analysis Method: bishop simplified

Raw Data for All Circle Results

Center_x	Center_y	Radius	Factor_of_Safety
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-93.447	5043.067	31.554	11.71820
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-93.447	5044.850	26.999	1.31085
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-93.447	5048.415	30.831	1.23312
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-79.184	5066.244	36.593	1.88318
-79.184	5066.244	39.512	2.00699
-79.184	5066.244	42.431	2.02149
-79.184	5066.244	45.350	2.35882
-79.184	5066.244	48.269	2.48289
-79.184	5066.244	51.187	2.35678
-79.184	5066.244	54.106	7.63665
-79.184	5066.244	57.025	9.81565
-79.184	5066.244	59.944	10.88650
-79.184	5068.027	32.335	3.56420
-79.184	5068.027	35.241	2.17883
-79.184	5068.027	38.146	1.94079
-79.184	5068.027	41.051	2.04714
-79.184	5068.027	43.957	2.05760
-79.184	5068.027	46.862	2.36865
-79.184	5068.027	49.768	2.51607
-79.184	5068.027	52.673	2.40353
-79.184	5068.027	55.578	7.30414
-79.184	5068.027	58.484	9.72716
-79.184	5068.027	61.389	10.86490
-79.184	5069.810	33.935	3.74517
-79.184	5069.810	36.827	2.26276

-79.184	5069.810	39.718	1.99895
-79.184	5069.810	42.610	2.08763
-79.184	5069.810	45.502	2.09445
-79.184	5069.810	48.394	2.37447
-79.184	5069.810	51.285	2.54872
-79.184	5069.810	54.177	2.45153
-79.184	5069.810	57.069	6.92501
-79.184	5069.810	59.960	9.63705
-79.184	5069.810	62.852	10.84560
-79.184	5071.593	35.552	3.92686
-79.184	5071.593	38.430	2.34705
-79.184	5071.593	41.308	2.05749
-79.184	5071.593	44.186	2.12829
-79.184	5071.593	47.064	2.13187
-79.184	5071.593	49.942	2.38024
-79.184	5071.593	52.820	2.58081
-79.184	5071.593	55.697	2.50014
-79.184	5071.593	58.575	6.48245
-79.184	5071.593	61.453	9.54357
-79.184	5071.593	64.331	10.82780
-79.184	5073.376	37.185	4.10918
-79.184	5073.376	40.049	2.43155
-79.184	5073.376	42.913	2.11605
-79.184	5073.376	45.777	2.16892
-79.184	5073.376	48.641	2.16977
-79.184	5073.376	51.505	2.38643
-79.184	5073.376	54.369	2.61266
-79.184	5073.376	57.233	2.54903
-79.184	5073.376	60.097	5.94899
-79.184	5073.376	62.961	9.44588
-79.184	5073.376	65.825	10.81080
-79.184	5075.159	38.830	4.29206
-79.184	5075.159	41.680	2.51614
-79.184	5075.159	44.531	2.17470
-79.184	5075.159	47.381	2.20942
-79.184	5075.159	50.231	2.20802
-79.184	5075.159	53.082	2.39291
-79.184	5075.159	55.932	2.64471
-79.184	5075.159	58.782	2.59910
-79.184	5075.159	61.633	5.26920
-79.184	5075.159	64.483	9.34318
-79.184	5075.159	67.333	10.79420
-79.184	5076.942	40.487	4.47542
-79.184	5076.942	43.324	2.60074
-79.184	5076.942	46.161	2.23345
-79.184	5076.942	48.997	2.24968
-79.184	5076.942	51.834	2.24656
-79.184	5076.942	54.671	2.39955
-79.184	5076.942	57.508	2.67654
-79.184	5076.942	60.344	2.65126
-79.184	5076.942	63.181	4.26278
-79.184	5076.942	66.018	9.23407
-79.184	5076.942	68.854	10.77660

Raw Data for Minimum Circle Results

Center_x	Center_y	Radius	Factor_of_Safety
-114.842	5041.284	24.385	-106.00000
-114.842	5043.067	26.168	-106.00000
-114.842	5044.850	27.951	-106.00000
-114.842	5046.632	29.734	-106.00000
-114.842	5048.415	31.516	-106.00000
-114.842	5050.198	33.299	-106.00000
-114.842	5051.981	35.082	-106.00000
-114.842	5053.764	36.865	-106.00000
-114.842	5055.547	38.648	-106.00000
-114.842	5057.330	40.431	-106.00000
-114.842	5059.113	42.214	-106.00000
-114.842	5060.896	43.996	-106.00000
-114.842	5062.679	45.779	-106.00000
-114.842	5064.461	47.562	-106.00000
-114.842	5066.244	49.345	-106.00000
-114.842	5068.027	51.128	-106.00000
-114.842	5069.810	52.911	-106.00000
-114.842	5071.593	54.694	-106.00000
-114.842	5073.376	56.477	-106.00000
-114.842	5075.159	58.259	-106.00000
-114.842	5076.942	60.042	-106.00000
-113.059	5041.284	24.393	-108.00000
-113.059	5043.067	26.175	-108.00000
-113.059	5044.850	27.957	-108.00000
-113.059	5046.632	29.740	-108.00000
-113.059	5048.415	31.522	-108.00000
-113.059	5050.198	33.305	-108.00000
-113.059	5051.981	35.087	-108.00000
-113.059	5053.764	36.870	-108.00000
-113.059	5055.547	38.653	-108.00000
-113.059	5057.330	40.435	-108.00000
-113.059	5059.113	42.218	-108.00000
-113.059	5060.896	44.001	-108.00000
-113.059	5062.679	45.783	-108.00000
-113.059	5064.461	47.566	-108.00000
-113.059	5066.244	49.349	-108.00000
-113.059	5068.027	51.131	-108.00000
-113.059	5069.810	52.914	-108.00000
-113.059	5071.593	54.697	-108.00000
-113.059	5073.376	56.480	-108.00000
-113.059	5075.159	58.322	8.71184
-113.059	5076.942	60.076	3.19921
-111.276	5041.284	24.406	-108.00000
-111.276	5043.067	26.188	-108.00000
-111.276	5044.850	27.969	-108.00000
-111.276	5046.632	29.751	-108.00000
-111.276	5048.415	31.533	-108.00000
-111.276	5050.198	33.315	-108.00000
-111.276	5051.981	35.097	-108.00000
-111.276	5053.764	36.879	-108.00000
-111.276	5055.547	38.661	-108.00000
-111.276	5057.330	40.444	-108.00000
-111.276	5059.113	42.226	-108.00000

-111.276	5060.896	44.008	-108.00000
-111.276	5062.679	45.791	-108.00000
-111.276	5064.461	47.573	-108.00000
-111.276	5066.244	49.356	-108.00000
-111.276	5068.027	51.138	-108.00000
-111.276	5069.810	53.110	36.36820
-111.276	5071.593	54.868	4.42929
-111.276	5073.376	56.619	2.66383
-111.276	5075.159	58.370	2.07058
-111.276	5076.942	60.121	1.81302
-109.493	5041.284	24.426	-108.00000
-109.493	5043.067	26.206	-108.00000
-109.493	5044.850	27.987	-108.00000
-109.493	5046.632	29.768	-108.00000
-109.493	5048.415	31.549	-108.00000
-109.493	5050.198	33.330	-108.00000
-109.493	5051.981	35.111	-108.00000
-109.493	5053.764	36.893	-108.00000
-109.493	5055.547	38.674	-108.00000
-109.493	5057.330	40.456	-108.00000
-109.493	5059.113	42.238	-108.00000
-109.493	5060.896	44.020	-108.00000
-109.493	5062.679	45.802	-108.00000
-109.493	5064.461	47.584	-108.00000
-109.493	5066.244	49.747	5.63688
-109.493	5068.027	51.490	3.13651
-109.493	5069.810	53.233	2.25947
-109.493	5071.593	54.978	1.88139
-109.493	5073.376	56.723	1.69503
-109.493	5075.159	58.469	1.55119
-109.493	5076.942	60.216	1.46303
-107.710	5041.284	24.452	-108.00000
-107.710	5043.067	26.231	-108.00000
-107.710	5044.850	28.010	-108.00000
-107.710	5046.632	29.789	-108.00000
-107.710	5048.415	31.569	-108.00000
-107.710	5050.198	33.349	-108.00000
-107.710	5051.981	35.129	-108.00000
-107.710	5053.764	36.910	-108.00000
-107.710	5055.547	38.691	-108.00000
-107.710	5057.330	40.472	-108.00000
-107.710	5059.113	42.979	964.95200
-107.710	5060.896	44.731	6.06077
-107.710	5062.679	46.472	3.32577
-107.710	5064.461	48.202	2.36935
-107.710	5066.244	49.935	1.84018
-107.710	5068.027	51.669	1.58403
-107.710	5069.810	53.405	1.45145
-107.710	5071.593	55.142	1.37539
-107.710	5073.376	56.880	1.33174
-107.710	5075.159	58.619	1.30777
-107.710	5076.942	60.360	1.29655
-105.927	5041.284	24.484	-108.00000
-105.927	5043.067	26.260	-108.00000

-105.927	5044.850	28.038	-108.00000
-105.927	5046.632	29.815	-108.00000
-105.927	5048.415	31.594	-108.00000
-105.927	5050.198	33.373	-108.00000
-105.927	5051.981	35.152	-108.00000
-105.927	5053.764	38.148	16.53390
-105.927	5055.547	39.873	4.59504
-105.927	5057.330	41.604	2.70674
-105.927	5059.113	43.314	2.04945
-105.927	5060.896	45.026	1.71149
-105.927	5062.679	46.742	1.48930
-105.927	5064.461	48.460	1.37048
-105.927	5066.244	50.182	1.30475
-105.927	5068.027	51.905	1.26923
-105.927	5069.810	53.631	1.25302
-105.927	5071.593	55.359	1.24680
-105.927	5073.376	57.089	1.24883
-105.927	5075.159	58.820	1.25617
-105.927	5076.942	60.553	1.26758
-104.145	5041.284	24.520	-108.00000
-104.145	5043.067	26.295	-108.00000
-104.145	5044.850	28.070	-108.00000
-104.145	5046.632	31.895	8.92744
-104.145	5048.415	33.564	3.99741
-104.145	5050.198	35.243	2.58210
-104.145	5051.981	36.933	2.00265
-104.145	5053.764	38.621	1.70097
-104.145	5055.547	40.300	1.52088
-104.145	5057.330	41.985	1.40017
-104.145	5059.113	43.676	1.29888
-104.145	5060.896	45.372	1.24290
-104.145	5062.679	47.073	1.21553
-104.145	5064.461	48.778	1.20339
-104.145	5066.244	50.486	1.20216
-104.145	5068.027	52.197	1.20792
-104.145	5069.810	53.912	1.21874
-104.145	5071.593	55.629	1.23320
-104.145	5073.376	57.348	1.25041
-104.145	5075.159	59.070	1.26976
-104.145	5076.942	60.794	1.28926
-102.362	5041.284	27.441	2.23116
-102.362	5043.067	29.040	2.05203
-102.362	5044.850	30.659	1.78182
-102.362	5046.632	32.294	1.59440
-102.362	5048.415	33.944	1.46476
-102.362	5050.198	35.550	1.38663
-102.362	5051.981	37.465	1.26447
-102.362	5053.764	39.111	1.22441
-102.362	5055.547	40.767	1.18160
-102.362	5057.330	42.431	1.16112
-102.362	5059.113	44.103	1.15496
-102.362	5060.896	45.781	1.15825
-102.362	5062.679	47.464	1.16790
-102.362	5064.461	49.153	1.18202

-102.362	5066.244	50.846	1.19946
-102.362	5068.027	52.544	1.21959
-102.362	5069.810	54.245	1.24130
-102.362	5071.593	55.199	1.26324
-102.362	5073.376	56.071	1.28259
-102.362	5075.159	57.696	1.30169
-102.362	5076.942	59.324	1.32158
-100.579	5041.284	26.617	1.94824
-100.579	5043.067	28.270	1.70419
-100.579	5044.850	29.884	1.56265
-100.579	5046.632	31.695	1.39675
-100.579	5048.415	33.152	1.37713
-100.579	5050.198	35.074	1.26589
-100.579	5051.981	36.583	1.24649
-100.579	5053.764	38.101	1.22089
-100.579	5055.547	40.184	1.16158
-100.579	5057.330	41.753	1.16393
-100.579	5059.113	43.329	1.17200
-100.579	5060.896	44.912	1.18457
-100.579	5062.679	46.500	1.19990
-100.579	5064.461	48.839	1.21356
-100.579	5066.244	50.477	1.23626
-100.579	5068.027	51.294	1.25759
-100.579	5069.810	52.035	1.27728
-100.579	5071.593	53.604	1.29499
-100.579	5073.376	55.175	1.31462
-100.579	5075.159	56.750	1.33481
-100.579	5076.942	58.329	1.35534
-98.796	5041.284	25.913	1.62574
-98.796	5043.067	27.781	1.42097
-98.796	5044.850	29.142	1.43584
-98.796	5046.632	31.099	1.30269
-98.796	5048.415	32.506	1.30033
-98.796	5050.198	34.564	1.21257
-98.796	5051.981	36.021	1.19919
-98.796	5053.764	37.486	1.19411
-98.796	5055.547	39.694	1.16622
-98.796	5057.330	41.209	1.17955
-98.796	5059.113	42.732	1.19563
-98.796	5060.896	44.261	1.21354
-98.796	5062.679	45.797	1.23274
-98.796	5064.461	47.338	1.25298
-98.796	5066.244	47.935	1.27185
-98.796	5068.027	49.447	1.28886
-98.796	5069.810	50.962	1.30801
-98.796	5071.593	52.481	1.32773
-98.796	5073.376	54.003	1.34847
-98.796	5075.159	55.532	1.37074
-98.796	5076.942	57.076	1.39450
-97.013	5041.284	25.396	1.41228
-97.013	5043.067	26.709	1.44253
-97.013	5044.850	28.795	1.29731
-97.013	5046.632	30.150	1.30417
-97.013	5048.415	32.320	1.21579

-97.013	5050.198	33.719	1.20896
-97.013	5051.981	35.129	1.20707
-97.013	5053.764	37.433	1.18160
-97.013	5055.547	38.890	1.19653
-97.013	5057.330	40.355	1.21333
-97.013	5059.113	41.827	1.23121
-97.013	5060.896	43.307	1.24977
-97.013	5062.679	43.746	1.26876
-97.013	5064.461	45.202	1.28464
-97.013	5066.244	46.662	1.30337
-97.013	5068.027	48.127	1.32519
-97.013	5069.810	50.786	1.34734
-97.013	5071.593	52.295	1.36780
-97.013	5073.376	53.812	1.38828
-97.013	5075.159	55.345	1.40936
-97.013	5076.942	56.894	1.43169
-95.230	5041.284	24.899	1.32548
-95.230	5043.067	26.197	1.34738
-95.230	5044.850	28.475	1.24164
-95.230	5046.632	29.812	1.24696
-95.230	5048.415	31.161	1.24246
-95.230	5050.198	33.546	1.19513
-95.230	5051.981	34.938	1.20621
-95.230	5053.764	36.340	1.21952
-95.230	5055.547	37.752	1.23410
-95.230	5057.330	39.171	1.24928
-95.230	5059.113	40.598	1.26546
-95.230	5060.896	42.031	1.28115
-95.230	5062.679	43.471	1.29867
-95.230	5064.461	44.915	1.31674
-95.230	5066.244	46.365	1.33510
-95.230	5068.027	47.819	1.35550
-95.230	5069.810	49.278	1.37906
-95.230	5071.593	50.745	1.40642
-95.230	5073.376	52.234	1.43777
-95.230	5075.159	55.201	1.46577
-95.230	5076.942	56.755	1.48654
-93.447	5041.284	24.421	1.29461
-93.447	5043.067	25.704	1.30738
-93.447	5044.850	28.179	1.22980
-93.447	5046.632	29.499	1.23095
-93.447	5048.415	30.831	1.23312
-93.447	5050.198	33.401	1.22555
-93.447	5051.981	34.776	1.24271
-93.447	5053.764	34.892	1.25437
-93.447	5055.547	36.263	1.26568
-93.447	5057.330	37.642	1.27714
-93.447	5059.113	39.027	1.29094
-93.447	5060.896	40.419	1.30837
-93.447	5062.679	41.816	1.33158
-93.447	5064.461	43.218	1.36208
-93.447	5066.244	46.093	1.38404
-93.447	5068.027	47.537	1.40213
-93.447	5069.810	48.991	1.42320

-93.447	5071.593	50.468	1.44782
-93.447	5073.376	51.966	1.47622
-93.447	5075.159	53.483	1.50868
-93.447	5076.942	55.017	1.54570
-91.664	5041.284	23.959	1.29812
-91.664	5043.067	25.227	1.30143
-91.664	5044.850	27.905	1.24574
-91.664	5046.632	29.207	1.25168
-91.664	5048.415	30.523	1.26067
-91.664	5050.198	31.852	1.27058
-91.664	5051.981	31.741	1.27537
-91.664	5053.764	33.071	1.28302
-91.664	5055.547	34.408	1.30111
-91.664	5057.330	37.265	1.31761
-91.664	5059.113	38.638	1.33005
-91.664	5060.896	40.019	1.34590
-91.664	5062.679	41.405	1.36759
-91.664	5064.461	42.797	1.39725
-91.664	5066.244	44.194	1.43865
-91.664	5068.027	47.284	1.46271
-91.664	5069.810	48.748	1.48110
-91.664	5071.593	50.235	1.50280
-91.664	5073.376	51.742	1.52797
-91.664	5075.159	53.268	1.55694
-91.664	5076.942	54.810	1.59034
-89.881	5041.284	23.512	1.32410
-89.881	5043.067	24.766	1.31685
-89.881	5044.850	27.651	1.29526
-89.881	5046.632	27.313	1.29773
-89.881	5048.415	28.605	1.29490
-89.881	5050.198	29.906	1.29481
-89.881	5051.981	31.217	1.29615
-89.881	5053.764	32.536	1.30528
-89.881	5055.547	33.862	1.32549
-89.881	5057.330	35.195	1.36148
-89.881	5059.113	38.269	1.38359
-89.881	5060.896	39.638	1.39682
-89.881	5062.679	41.014	1.41616
-89.881	5064.461	42.396	1.44473
-89.881	5066.244	43.791	1.48778
-89.881	5068.027	47.077	1.53708
-89.881	5069.810	48.551	1.55271
-89.881	5071.593	44.343	1.56877
-89.881	5073.376	51.563	1.59315
-89.881	5075.159	53.097	1.61852
-89.881	5076.942	54.648	1.64798
-88.098	5041.284	23.078	1.36650
-88.098	5043.067	24.318	1.35415
-88.098	5044.850	25.572	1.34447
-88.098	5046.632	24.995	1.33242
-88.098	5048.415	28.119	1.33706
-88.098	5050.198	29.408	1.33429
-88.098	5051.981	30.708	1.33403
-88.098	5053.764	32.016	1.34307

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File: J:\Cad Projects\GOOSE HAVEN RESERVOIR\dwg\Slope Stability\Dec 2016\Slide\th-P3F.slim
 Project Title: SLIDE - An Interactive Slope Stability Program
 Analysis Method: bishop simplified

Raw Data for All Circle Results

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-93.577	5048.875	36.200	16.06250
-93.577	5048.875	37.045	16.04770
-93.577	5051.074	30.162	4.03779
-93.577	5051.074	31.028	2.01819
-93.577	5051.074	31.893	1.60145
-93.577	5051.074	32.759	1.40453
-93.577	5051.074	33.625	1.29334
-93.577	5051.074	34.490	2.52883
-93.577	5051.074	35.356	5.94363
-93.577	5051.074	36.221	11.92790
-93.577	5051.074	37.087	13.62090
-93.577	5051.074	37.953	14.26850
-93.577	5051.074	38.818	14.47540
-93.577	5053.273	31.731	4.86318
-93.577	5053.273	32.621	2.14473
-93.577	5053.273	33.511	1.65392
-93.577	5053.273	34.400	1.44720
-93.577	5053.273	35.290	1.32996
-93.577	5053.273	36.180	2.33418
-93.577	5053.273	37.070	2.31066
-93.577	5053.273	37.960	8.84112
-93.577	5053.273	38.850	11.58110
-93.577	5053.273	39.740	12.63160
-93.577	5053.273	40.630	13.11660
-93.577	5055.472	33.301	5.60784
-93.577	5055.472	34.218	2.24832
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-93.577	5055.472	36.053	1.47214
-93.577	5055.472	36.970	1.35085
-93.577	5055.472	37.888	1.27526
-93.577	5055.472	38.805	2.16784
-93.577	5055.472	39.723	4.26976
-93.577	5055.472	40.640	9.61949
-93.577	5055.472	41.557	11.23060
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-93.577	5057.671	34.873	6.28940
-93.577	5057.671	35.820	2.33370
-93.577	5057.671	36.768	1.69937
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-93.577	5057.671	38.663	1.36363
-93.577	5057.671	39.611	1.28898
-93.577	5057.671	40.558	2.02331
-93.577	5057.671	41.506	2.03891
-93.577	5057.671	42.454	7.69262
-93.577	5057.671	43.401	10.00480
-93.577	5057.671	44.349	11.07730
-93.577	5059.870	36.446	6.92663
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-82.581	5057.671	47.805	9.34827
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-82.581	5059.870	29.367	3.54868
-82.581	5059.870	31.602	1.67791
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-82.581	5059.870	36.070	1.42594
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-82.581	5059.870	40.538	1.57735
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-80.382	5088.458	76.722	9.15883
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-80.382	5090.657	73.216	2.44963
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-80.382	5090.657	78.682	9.11498
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-75.984	5055.472	34.261	1.89444
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-75.984	5062.069	26.712	2.75463
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-75.984	5064.268	40.511	2.01997
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-75.984	5066.467	39.042	1.73268
-75.984	5066.467	42.112	2.03188
-75.984	5066.467	45.182	2.18466
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-75.984	5075.263	39.462	2.17163
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-75.984	5075.263	51.913	2.36496
-75.984	5075.263	55.025	2.39486
-75.984	5075.263	58.138	2.31504
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-75.984	5075.263	64.363	8.83449
-75.984	5075.263	67.476	9.75359
-75.984	5077.463	38.114	4.20737
-75.984	5077.463	41.231	2.26346
-75.984	5077.463	44.347	1.97350
-75.984	5077.463	47.464	1.89007
-75.984	5077.463	50.580	2.10545
-75.984	5077.463	53.697	2.39430
-75.984	5077.463	56.813	2.44584
-75.984	5077.463	59.930	2.37425
-75.984	5077.463	63.046	6.55121
-75.984	5077.463	66.163	8.74940
-75.984	5077.463	69.280	9.74143

-75.984	5079.662	39.923	4.43781
-75.984	5079.662	43.041	2.35659
-75.984	5079.662	46.160	2.04389
-75.984	5079.662	49.278	1.97992
-75.984	5079.662	52.396	2.12611
-75.984	5079.662	55.514	2.42472
-75.984	5079.662	58.633	2.49716
-75.984	5079.662	61.751	2.43362
-75.984	5079.662	64.869	6.09000
-75.984	5079.662	67.987	8.66064
-75.984	5079.662	71.106	9.73143
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-75.984	5081.861	44.889	2.45088
-75.984	5081.861	48.007	2.11595
-75.984	5081.861	51.125	2.04086
-75.984	5081.861	54.243	2.14827
-75.984	5081.861	57.362	2.45625
-75.984	5081.861	60.480	2.54842
-75.984	5081.861	63.598	2.49145
-75.984	5081.861	66.716	5.50892
-75.984	5081.861	69.835	8.56680
-75.984	5081.861	72.953	9.72181
-75.984	5084.060	43.651	4.88996
-75.984	5084.060	46.768	2.54620
-75.984	5084.060	49.884	2.18944
-75.984	5084.060	53.001	2.10292
-75.984	5084.060	56.118	2.17181
-75.984	5084.060	59.235	2.48865
-75.984	5084.060	62.352	2.59961
-75.984	5084.060	65.469	2.54603
-75.984	5084.060	68.586	4.70279
-75.984	5084.060	71.703	8.46726
-75.984	5084.060	74.820	9.71300
-75.984	5086.259	45.560	5.11303
-75.984	5086.259	48.674	2.64247
-75.984	5086.259	51.789	2.26413
-75.984	5086.259	54.903	2.16592
-75.984	5086.259	58.018	2.19667
-75.984	5086.259	61.132	2.52162
-75.984	5086.259	64.246	2.65063
-75.984	5086.259	67.361	2.59760
-75.984	5086.259	70.475	2.97937
-75.984	5086.259	73.590	8.36082
-75.984	5086.259	76.704	9.70338
-75.984	5088.458	47.495	5.33587
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-75.984	5088.458	53.717	2.33986
-75.984	5088.458	56.828	2.22966
-75.984	5088.458	59.939	2.22302
-75.984	5088.458	63.050	2.55503
-75.984	5088.458	66.161	2.70113
-75.984	5088.458	69.272	2.64544
-75.984	5088.458	72.383	2.46938
-75.984	5088.458	75.494	8.24590

-75.984	5088.458	78.605	9.69205
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-75.984	5090.657	52.559	2.83796
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-75.984	5090.657	58.773	2.29401
-75.984	5090.657	61.880	2.25086
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-75.984	5090.657	68.094	2.75146
-75.984	5090.657	71.201	2.69330
-75.984	5090.657	74.308	2.52023
-75.984	5090.657	77.414	8.12069
-75.984	5090.657	80.521	9.67865
-75.984	5092.856	51.429	5.78230
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-75.984	5092.856	66.940	2.62294
-75.984	5092.856	70.043	2.80093
-75.984	5092.856	73.145	2.74107
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-75.984	5092.856	82.452	9.66340
-73.785	5048.875	16.017	2.71085
-73.785	5048.875	19.410	1.53120
-73.785	5048.875	22.803	1.65685
-73.785	5048.875	26.196	1.90105
-73.785	5048.875	29.589	1.99481
-73.785	5048.875	32.982	1.92370
-73.785	5048.875	36.375	7.38678
-73.785	5048.875	39.768	8.75894
-73.785	5048.875	43.161	9.56219
-73.785	5048.875	46.554	10.92890
-73.785	5048.875	49.947	12.93160
-73.785	5051.074	17.559	2.69933
-73.785	5051.074	20.930	1.56436
-73.785	5051.074	24.301	1.61207
-73.785	5051.074	27.671	1.89683
-73.785	5051.074	31.042	2.02090
-73.785	5051.074	34.413	1.96865
-73.785	5051.074	37.783	6.88247
-73.785	5051.074	41.154	8.50126
-73.785	5051.074	44.525	9.38651
-73.785	5051.074	47.895	10.44800
-73.785	5051.074	51.266	12.37810
-73.785	5053.273	19.105	2.68912
-73.785	5053.273	22.458	1.60405
-73.785	5053.273	25.812	1.58223
-73.785	5053.273	29.165	1.88068
-73.785	5053.273	32.518	2.05405
-73.785	5053.273	35.872	2.02313
-73.785	5053.273	39.225	6.27345
-73.785	5053.273	42.579	8.25086
-73.785	5053.273	45.932	9.21947

-73.785	5053.273	49.286	10.06450
-73.785	5053.273	52.639	11.89200
-73.785	5055.472	20.653	2.65126
-73.785	5055.472	23.994	1.62225
-73.785	5055.472	27.335	1.56224
-73.785	5055.472	30.676	1.87126
-73.785	5055.472	34.017	2.09125
-73.785	5055.472	37.358	2.08694
-73.785	5055.472	40.699	5.45917
-73.785	5055.472	44.040	7.98495
-73.785	5055.472	47.381	9.06883
-73.785	5055.472	50.722	9.78211
-73.785	5055.472	54.063	11.44350
-73.785	5057.671	22.203	2.59580
-73.785	5057.671	25.536	1.65426
-73.785	5057.671	28.869	1.55343
-73.785	5057.671	32.202	1.86688
-73.785	5057.671	35.535	2.13103
-73.785	5057.671	38.868	2.18898
-73.785	5057.671	42.201	4.13126
-73.785	5057.671	45.534	7.69637
-73.785	5057.671	48.867	8.92326
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-73.785	5059.870	23.756	2.62397
-73.785	5059.870	27.085	1.69693
-73.785	5059.870	30.414	1.56028
-73.785	5059.870	33.743	1.86691
-73.785	5059.870	37.073	2.16993
-73.785	5059.870	40.402	2.23108
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-73.785	5059.870	47.060	7.36943
-73.785	5059.870	50.389	8.77600
-73.785	5059.870	53.718	9.57491
-73.785	5059.870	57.047	10.74110
-73.785	5062.069	25.311	2.71697
-73.785	5062.069	28.640	1.75306
-73.785	5062.069	31.969	1.60953
-73.785	5062.069	35.298	1.86846
-73.785	5062.069	38.627	2.20023
-73.785	5062.069	41.956	2.27638
-73.785	5062.069	45.285	2.15785
-73.785	5062.069	48.614	6.98024
-73.785	5062.069	51.943	8.62747
-73.785	5062.069	55.272	9.49896
-73.785	5062.069	58.601	10.46720
-73.785	5064.268	26.868	2.86984
-73.785	5064.268	30.200	1.82038
-73.785	5064.268	33.533	1.69927
-73.785	5064.268	36.865	1.86870
-73.785	5064.268	40.198	2.21211
-73.785	5064.268	43.530	2.32430
-73.785	5064.268	46.863	2.22399
-73.785	5064.268	50.195	6.49960

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-73.785	5064.268	56.860	9.42866
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-73.785	5066.467	28.426	3.08749
-73.785	5066.467	31.766	1.90067
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-73.785	5066.467	38.444	1.86866
-73.785	5066.467	41.783	2.22291
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-73.785	5066.467	48.461	2.29579
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-73.785	5066.467	55.140	8.30349
-73.785	5066.467	58.479	9.35960
-73.785	5066.467	61.818	10.05620
-73.785	5068.666	30.013	3.35387
-73.785	5068.666	33.359	1.99026
-73.785	5068.666	36.705	1.81895
-73.785	5068.666	40.052	1.87128
-73.785	5068.666	43.398	2.23428
-73.785	5068.666	46.745	2.42446
-73.785	5068.666	50.091	2.37669
-73.785	5068.666	53.437	4.96739
-73.785	5068.666	56.784	8.12168
-73.785	5068.666	60.130	9.29486
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-73.785	5070.865	41.722	1.88238
-73.785	5070.865	45.071	2.24840
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-73.785	5070.865	58.469	7.92700
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-73.785	5070.865	65.168	9.97624
-73.785	5073.064	33.398	3.86537
-73.785	5073.064	36.747	2.17835
-73.785	5073.064	40.096	1.95557
-73.785	5073.064	43.446	1.90561
-73.785	5073.064	46.795	2.26438
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-73.785	5073.064	53.493	2.51238
-73.785	5073.064	56.843	2.31125
-73.785	5073.064	60.192	7.71645
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-73.785	5075.263	35.177	4.11166
-73.785	5075.263	38.523	2.27608
-73.785	5075.263	41.870	2.02842
-73.785	5075.263	45.216	1.95357
-73.785	5075.263	48.562	2.28264
-73.785	5075.263	51.909	2.56996
-73.785	5075.263	55.255	2.56322

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-73.785	5075.263	61.948	7.48288
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-73.785	5077.463	47.027	2.05537
-73.785	5077.463	50.368	2.30191
-73.785	5077.463	53.709	2.60615
-73.785	5077.463	57.051	2.61487
-73.785	5077.463	60.392	2.43357
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-73.785	5077.463	70.417	9.95286
-73.785	5079.662	38.867	4.59304
-73.785	5079.662	42.202	2.47710
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-73.785	5079.662	48.872	2.11847
-73.785	5079.662	52.207	2.32253
-73.785	5079.662	55.542	2.63912
-73.785	5079.662	58.877	2.66695
-73.785	5079.662	62.212	2.49757
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-73.785	5081.861	60.729	2.71921
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-73.785	5081.861	74.038	9.94408
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-73.785	5084.060	69.242	6.14628
-73.785	5084.060	72.561	8.85436
-73.785	5084.060	75.880	9.93995
-73.785	5086.259	44.647	5.30834
-73.785	5086.259	47.957	2.78963
-73.785	5086.259	51.266	2.43244
-73.785	5086.259	54.575	2.31437
-73.785	5086.259	57.884	2.38980
-73.785	5086.259	61.194	2.74366

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-73.785	5086.259	74.431	8.77981
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-73.785	5090.657	61.775	2.43831
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-73.785	5090.657	68.354	2.92780
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-71.586	5055.472	44.683	8.20739
-71.586	5055.472	48.315	9.26458
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-71.586	5059.870	22.359	2.61165
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-71.586	5062.069	52.784	8.86706
-71.586	5062.069	56.393	9.70624
-71.586	5062.069	60.002	11.28470
-71.586	5064.268	25.466	2.98892
-71.586	5064.268	29.075	1.91615
-71.586	5064.268	32.684	1.81812
-71.586	5064.268	36.293	2.03157
-71.586	5064.268	39.902	2.42724
-71.586	5064.268	43.511	2.52797
-71.586	5064.268	47.120	2.32108
-71.586	5064.268	50.729	6.94501
-71.586	5064.268	54.338	8.73143
-71.586	5064.268	57.947	9.64583
-71.586	5064.268	61.556	10.97170
-71.586	5066.467	27.052	3.26052
-71.586	5066.467	30.662	2.00881
-71.586	5066.467	34.271	1.88320
-71.586	5066.467	37.881	2.02421
-71.586	5066.467	41.490	2.43822
-71.586	5066.467	45.099	2.57951
-71.586	5066.467	48.709	2.40204
-71.586	5066.467	52.318	6.46122
-71.586	5066.467	55.928	8.58950
-71.586	5066.467	59.537	9.58891
-71.586	5066.467	63.147	10.69040
-71.586	5068.666	28.720	3.52852
-71.586	5068.666	32.326	2.10653
-71.586	5068.666	35.931	1.95346
-71.586	5068.666	39.537	2.02335
-71.586	5068.666	43.142	2.45325
-71.586	5068.666	46.748	2.63262
-71.586	5068.666	50.353	2.49320
-71.586	5068.666	53.958	5.85807
-71.586	5068.666	57.564	8.44509
-71.586	5068.666	61.169	9.53935
-71.586	5068.666	64.775	10.45420
-71.586	5070.865	30.459	3.79126
-71.586	5070.865	34.057	2.20816
-71.586	5070.865	37.654	2.02793
-71.586	5070.865	41.252	2.03040
-71.586	5070.865	44.850	2.47127
-71.586	5070.865	48.448	2.68611
-71.586	5070.865	52.045	2.64350
-71.586	5070.865	55.643	5.04441
-71.586	5070.865	59.241	8.29410
-71.586	5070.865	62.839	9.49328
-71.586	5070.865	66.437	10.27300
-71.586	5073.064	32.255	4.04938
-71.586	5073.064	35.843	2.31299
-71.586	5073.064	39.430	2.10854

-71.586	5073.064	43.017	2.05186
-71.586	5073.064	46.605	2.49125
-71.586	5073.064	50.192	2.73796
-71.586	5073.064	53.780	2.69288
-71.586	5073.064	57.367	3.58713
-71.586	5073.064	60.955	8.13372
-71.586	5073.064	64.542	9.44972
-71.586	5073.064	68.130	10.16750
-71.586	5075.263	34.100	4.30542
-71.586	5075.263	37.675	2.42047
-71.586	5075.263	41.250	2.19267
-71.586	5075.263	44.825	2.14797
-71.586	5075.263	48.401	2.51284
-71.586	5075.263	51.976	2.78725
-71.586	5075.263	55.551	2.74384
-71.586	5075.263	59.126	2.42232
-71.586	5075.263	62.701	7.96041
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-71.586	5075.263	69.852	10.15620
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-71.586	5077.463	50.231	2.53420
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-71.586	5077.463	60.916	2.48518
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-71.586	5079.662	69.827	9.31623
-71.586	5079.662	73.374	10.15210
-71.586	5081.861	39.854	5.07187
-71.586	5081.861	43.385	2.75696
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-71.586	5081.861	61.043	2.90036
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-71.586	5081.861	68.106	7.32719
-71.586	5081.861	71.638	9.26717
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-71.586	5084.060	62.923	2.95354
-71.586	5084.060	66.438	2.68728
-71.586	5084.060	69.954	7.06020
-71.586	5084.060	73.470	9.21451
-71.586	5084.060	76.986	10.15550
-71.586	5086.259	43.823	5.58634
-71.586	5086.259	47.323	2.98964
-71.586	5086.259	50.823	2.64211
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-71.586	5086.259	57.823	2.62001
-71.586	5086.259	61.323	2.98031
-71.586	5086.259	64.822	3.00689
-71.586	5086.259	68.322	2.75872
-71.586	5086.259	71.822	6.74958
-71.586	5086.259	75.322	9.15873
-71.586	5086.259	78.822	10.16080
-71.586	5088.458	45.837	5.83320
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-71.586	5088.458	52.805	2.73574
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-71.586	5088.458	59.773	2.64173
-71.586	5088.458	63.257	3.01877
-71.586	5088.458	66.741	3.06047
-71.586	5088.458	70.225	2.83332
-71.586	5088.458	73.709	6.38146
-71.586	5088.458	77.193	9.09867
-71.586	5088.458	80.677	10.17070
-71.586	5090.657	47.867	6.05680
-71.586	5090.657	51.335	3.22686
-71.586	5090.657	54.803	2.83015
-71.586	5090.657	58.271	2.62470
-71.586	5090.657	61.739	2.66350
-71.586	5090.657	65.207	3.05711
-71.586	5090.657	68.676	3.11400
-71.586	5090.657	72.144	2.91467
-71.586	5090.657	75.612	5.93395
-71.586	5090.657	79.080	9.03483
-71.586	5090.657	82.548	10.18430
-71.586	5092.856	49.911	6.28090
-71.586	5092.856	53.364	3.34685
-71.586	5092.856	56.816	2.92523
-71.586	5092.856	60.268	2.69523
-71.586	5092.856	63.721	2.68529
-71.586	5092.856	67.173	3.09542
-71.586	5092.856	70.626	3.16757
-71.586	5092.856	74.078	3.02432
-71.586	5092.856	77.530	5.36361
-71.586	5092.856	80.983	8.96652
-71.586	5092.856	84.435	10.20080

Raw Data for Minimum Circle Results

Center_x	Center_y	Radius	Factor_of_Safety
-115.567	5048.875	30.075	-102.00000
-115.567	5051.074	32.274	-102.00000
-115.567	5053.273	34.473	-102.00000
-115.567	5055.472	36.672	-102.00000
-115.567	5057.671	38.871	-102.00000
-115.567	5059.870	41.070	-102.00000
-115.567	5062.069	43.269	-102.00000
-115.567	5064.268	45.468	-102.00000
-115.567	5066.467	47.667	-102.00000
-115.567	5068.666	49.866	-102.00000
-115.567	5070.865	52.066	-102.00000
-115.567	5073.064	54.265	-102.00000
-115.567	5075.263	56.464	-102.00000
-115.567	5077.463	58.663	-102.00000
-115.567	5079.662	60.862	-102.00000
-115.567	5081.861	63.061	-102.00000
-115.567	5084.060	65.260	-102.00000
-115.567	5086.259	67.459	-102.00000
-115.567	5088.458	69.658	-102.00000
-115.567	5090.657	71.857	-102.00000
-115.567	5092.856	74.056	-102.00000
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-113.368	5053.273	34.478	-108.00000
-113.368	5055.472	36.677	-108.00000
-113.368	5057.671	38.876	-108.00000
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-113.368	5064.268	45.472	-108.00000
-113.368	5066.467	47.671	-108.00000
-113.368	5068.666	49.870	-108.00000
-113.368	5070.865	52.069	-108.00000
-113.368	5073.064	54.268	-108.00000
-113.368	5075.263	56.467	-108.00000
-113.368	5077.463	58.665	-108.00000
-113.368	5079.662	60.864	-108.00000
-113.368	5081.861	63.063	-108.00000
-113.368	5084.060	65.262	-108.00000
-113.368	5086.259	67.461	-108.00000
-113.368	5088.458	69.660	-108.00000
-113.368	5090.657	71.893	16.14030
-113.368	5092.856	74.058	4.65192
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-111.169	5057.671	38.886	-108.00000
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-111.169	5064.268	45.481	-108.00000
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-111.169	5086.259	67.600	6.52227
-111.169	5088.458	69.762	3.43540
-111.169	5090.657	71.924	2.39457
-111.169	5092.856	74.086	1.94213
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-108.970	5059.870	41.100	-108.00000
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-108.970	5064.268	45.495	-108.00000
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-106.771	5079.662	61.441	1.86860
-106.771	5081.861	63.585	1.60053
-106.771	5084.060	65.730	1.46908
-106.771	5086.259	67.877	1.40092
-106.771	5088.458	70.025	1.36014
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-104.572	5079.662	61.713	1.35673
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-104.572	5088.458	70.254	1.31071
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-97.975	5070.865	53.934	1.23343
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-97.975	5081.861	61.066	1.33061
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-97.975	5088.458	66.734	1.38683
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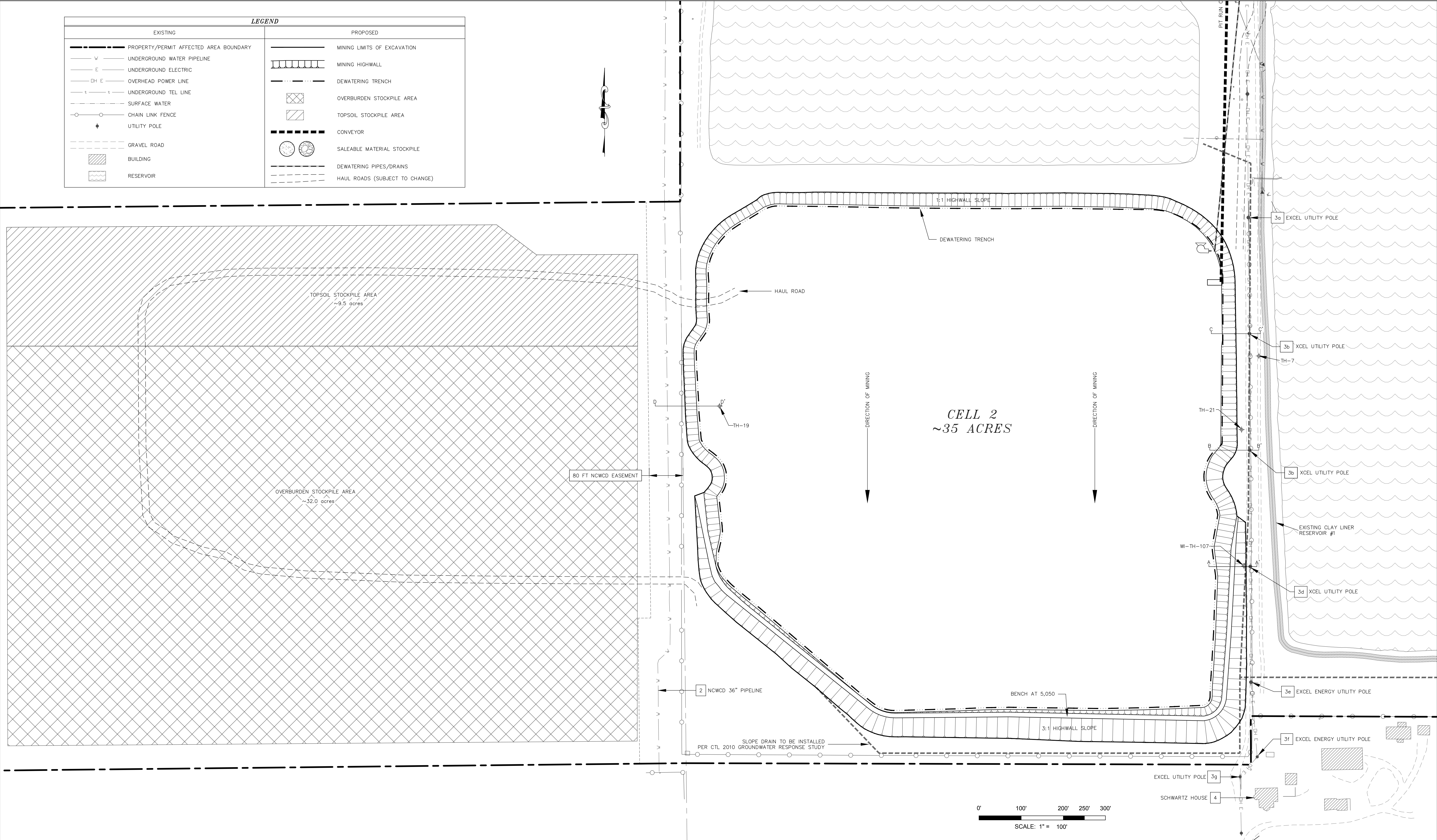
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-91.377	5057.671	39.402	1.26278
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-91.377	5066.467	45.013	1.31735
-91.377	5068.666	46.736	1.32035
-91.377	5070.865	48.465	1.32864
-91.377	5073.064	50.200	1.34116
-91.377	5075.263	51.942	1.35657
-91.377	5077.463	53.688	1.37524
-91.377	5079.662	55.439	1.39704
-91.377	5081.861	57.194	1.42222
-91.377	5084.060	58.953	1.45067
-91.377	5086.259	60.725	1.48277
-91.377	5088.458	62.524	1.51846
-91.377	5090.657	66.121	1.55747
-91.377	5092.856	68.007	1.58792
-89.178	5048.875	29.906	1.33008
-89.178	5051.074	31.497	1.35502
-89.178	5053.273	34.503	1.30329
-89.178	5055.472	36.140	1.30762
-89.178	5057.671	37.792	1.31225
-89.178	5059.870	40.922	1.30632
-89.178	5062.069	42.627	1.32664
-89.178	5064.268	41.306	1.33315
-89.178	5066.467	42.973	1.33737
-89.178	5068.666	44.647	1.34456
-89.178	5070.865	46.327	1.35843
-89.178	5073.064	48.012	1.37875
-89.178	5075.263	51.398	1.39931
-89.178	5077.463	53.133	1.41982
-89.178	5079.662	54.873	1.44252
-89.178	5081.861	56.617	1.46768
-89.178	5084.060	58.376	1.49584

-89.178	5086.259	60.165	1.52743
-89.178	5088.458	61.982	1.56256
-89.178	5090.657	63.825	1.60132
-89.178	5092.856	65.692	1.64414
-86.979	5048.875	29.328	1.35459
-86.979	5051.074	30.900	1.36778
-86.979	5053.273	34.153	1.32274
-86.979	5055.472	35.769	1.33300
-86.979	5057.671	37.401	1.34636
-86.979	5059.870	37.333	1.34621
-86.979	5062.069	38.970	1.34270
-86.979	5064.268	40.616	1.34334
-86.979	5066.467	42.271	1.34951
-86.979	5068.666	43.933	1.36146
-86.979	5070.865	45.602	1.37843
-86.979	5073.064	47.277	1.40082
-86.979	5075.263	48.957	1.42974
-86.979	5077.463	50.643	1.46697
-86.979	5079.662	54.331	1.50625
-86.979	5081.861	56.075	1.53076
-86.979	5084.060	57.851	1.55852
-86.979	5086.259	59.659	1.59120
-86.979	5088.458	61.494	1.62801
-86.979	5090.657	63.354	1.66826
-86.979	5092.856	65.238	1.71217
-84.780	5048.875	28.768	1.39138
-84.780	5051.074	32.253	1.36339
-84.780	5053.273	33.828	1.37558
-84.780	5055.472	33.480	1.38927
-84.780	5057.671	33.124	1.38024
-84.780	5059.870	34.720	1.37196
-84.780	5062.069	38.315	1.37322
-84.780	5064.268	39.948	1.37752
-84.780	5066.467	41.589	1.38656
-84.780	5068.666	43.239	1.40012
-84.780	5070.865	44.897	1.41844
-84.780	5073.064	46.561	1.44246
-84.780	5075.263	48.231	1.47311
-84.780	5077.463	49.907	1.51298
-84.780	5079.662	51.600	1.56585
-84.780	5081.861	55.587	1.61635
-84.780	5084.060	57.383	1.64541
-84.780	5086.259	59.209	1.67745
-84.780	5088.458	61.062	1.71258
-84.780	5090.657	62.940	1.75098
-84.780	5092.856	64.839	1.79293
-82.581	5048.875	28.226	1.44285
-82.581	5051.074	31.973	1.43756
-82.581	5053.273	29.108	1.41214
-82.581	5055.472	30.674	1.38832
-82.581	5057.671	32.250	1.37527
-82.581	5059.870	33.836	1.37361
-82.581	5062.069	35.429	1.38163
-82.581	5064.268	37.030	1.40025

-82.581	5066.467	38.639	1.43494
-82.581	5068.666	42.565	1.45849
-82.581	5070.865	44.210	1.47712
-82.581	5073.064	45.864	1.50096
-82.581	5075.263	47.523	1.53229
-82.581	5077.463	49.202	1.57502
-82.581	5079.662	50.924	1.63334
-82.581	5081.861	52.684	1.71319
-82.581	5084.060	56.973	1.74790
-82.581	5086.259	58.818	1.77833
-82.581	5088.458	60.689	1.81156
-82.581	5090.657	62.583	1.84781
-82.581	5092.856	64.498	1.88742
-80.382	5048.875	25.195	1.49823
-80.382	5051.074	26.726	1.45435
-80.382	5053.273	28.269	1.42350
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-80.382	5057.671	31.389	1.39465
-80.382	5059.870	32.964	1.39384
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-80.382	5064.268	36.139	1.43066
-80.382	5066.467	37.738	1.47703
-80.382	5068.666	41.908	1.53426
-80.382	5070.865	43.542	1.55153
-80.382	5073.064	45.184	1.57442
-80.382	5075.263	46.847	1.60682
-80.382	5077.463	48.556	1.65375
-80.382	5079.662	50.308	1.72328
-80.382	5081.861	52.098	1.81318
-80.382	5084.060	56.624	1.86750
-80.382	5086.259	58.487	1.89615
-80.382	5088.458	60.375	1.92725
-80.382	5090.657	62.286	1.96101
-80.382	5092.856	64.216	1.99777
-78.183	5048.875	24.389	1.52814
-78.183	5051.074	25.908	1.48482
-78.183	5053.273	27.440	1.45742
-78.183	5055.472	28.984	1.43905
-78.183	5057.671	30.539	1.42968
-78.183	5059.870	32.103	1.43205
-78.183	5062.069	33.677	1.44739
-78.183	5064.268	35.259	1.48230
-78.183	5066.467	36.849	1.55619
-78.183	5068.666	41.268	1.62682
-78.183	5070.865	42.890	1.64251
-78.183	5073.064	44.536	1.66631
-78.183	5075.263	46.233	1.70306
-78.183	5077.463	47.975	1.75905
-78.183	5079.662	49.758	1.85039
-78.183	5081.861	51.577	1.91845
-78.183	5084.060	53.426	1.97715
-78.183	5086.259	58.219	2.03415
-78.183	5088.458	60.125	2.06288
-78.183	5090.657	62.051	2.09376

-78.183	5092.856	63.996	2.12712
-75.984	5048.875	20.499	1.53172
-75.984	5051.074	22.025	1.51212
-75.984	5053.273	26.621	1.51025
-75.984	5055.472	28.155	1.49110
-75.984	5057.671	29.699	1.48327
-75.984	5059.870	31.254	1.48718
-75.984	5062.069	32.818	1.50905
-75.984	5064.268	34.391	1.57212
-75.984	5066.467	35.972	1.65972
-75.984	5068.666	37.560	1.71521
-75.984	5070.865	42.270	1.75396
-75.984	5073.064	43.954	1.77781
-75.984	5075.263	45.687	1.81783
-75.984	5077.463	47.464	1.89007
-75.984	5079.662	49.278	1.97992
-75.984	5081.861	51.125	2.04086
-75.984	5084.060	53.001	2.10292
-75.984	5086.259	54.903	2.16592
-75.984	5088.458	59.939	2.22302
-75.984	5090.657	61.880	2.25086
-75.984	5092.856	63.838	2.28051
-73.785	5048.875	19.410	1.53120
-73.785	5051.074	20.930	1.56436
-73.785	5053.273	25.812	1.58223
-73.785	5055.472	27.335	1.56224
-73.785	5057.671	28.869	1.55343
-73.785	5059.870	30.414	1.56028
-73.785	5062.069	31.969	1.60953
-73.785	5064.268	33.533	1.69927
-73.785	5066.467	35.105	1.75648
-73.785	5068.666	36.705	1.81895
-73.785	5070.865	41.722	1.88238
-73.785	5073.064	43.446	1.90561
-73.785	5075.263	45.216	1.95357
-73.785	5077.463	47.027	2.05537
-73.785	5079.662	48.872	2.11847
-73.785	5081.861	50.747	2.18282
-73.785	5084.060	52.650	2.24819
-73.785	5086.259	54.575	2.31437
-73.785	5088.458	56.521	2.38120
-73.785	5090.657	61.775	2.43831
-73.785	5092.856	63.746	2.46389
-71.586	5048.875	18.325	1.63137
-71.586	5051.074	19.840	1.62397
-71.586	5053.273	21.362	1.63652
-71.586	5055.472	26.523	1.65198
-71.586	5057.671	28.048	1.64010
-71.586	5059.870	29.584	1.67777
-71.586	5062.069	31.130	1.75914
-71.586	5064.268	32.684	1.81812
-71.586	5066.467	34.271	1.88320
-71.586	5068.666	35.931	1.95346
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-71.586	5073.064	43.017	2.05186
-71.586	5075.263	44.825	2.14797
-71.586	5077.463	46.670	2.21308
-71.586	5079.662	48.545	2.27959
-71.586	5081.861	50.448	2.34720
-71.586	5084.060	52.375	2.41569
-71.586	5086.259	54.323	2.48486
-71.586	5088.458	56.289	2.55457
-71.586	5090.657	58.271	2.62470
-71.586	5092.856	63.721	2.68529



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



WSI Weiland, Inc.
Environmental & Engineering

PO BOX 18087
BOULDER, CO 80308
ph 303-443-9521

GOOSE HAVEN RESERVOIR COMPLEX EXPANSION #2,#4

REGUALR 112 MINING PERMIT

LAFAYETTE, CO

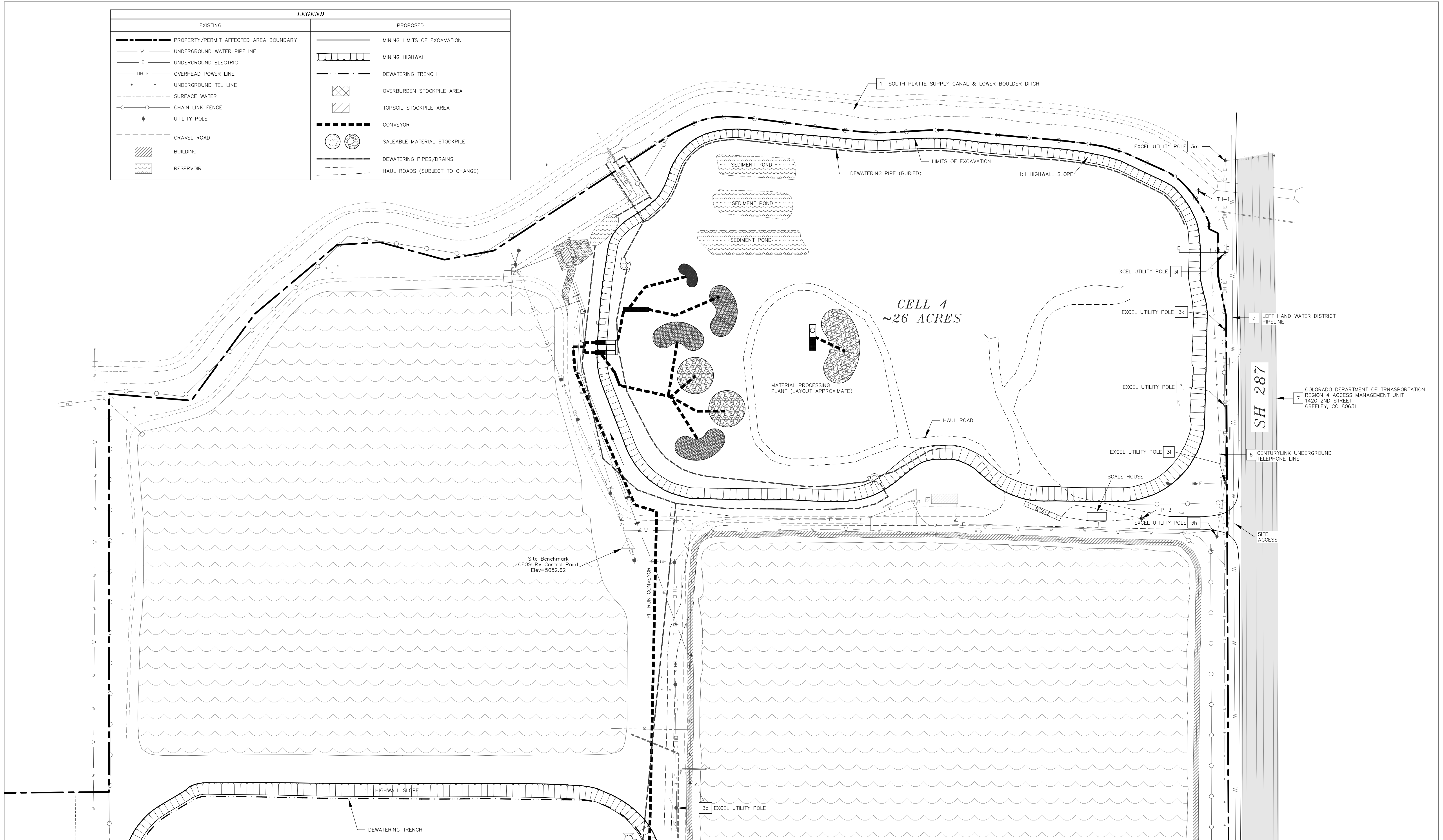
ROCK PRODUCTS

PREPARED FOR:

EXHIBIT D - MINE PLAN MAP

SHEET 1

SCALE 1"=100'	DWG NO. EXHIBIT D MINE PLAN MAP SHEETS 1-2 A-2.DWG	REV REV
DRAWN BY: CTW	CHECKED BY: PFW	DATE: 01/09/17
		SHEET SHEET 1 of 2



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



WSI Weiland, Inc.
Environmental & Engineering

PO BOX 18087
BOULDER, CO 80308
ph 303-443-9521

GOOSE HAVEN RESERVOIR COMPLEX EXPANSION #2,#4

REGUALR 112 MINING PERMIT

LAFAYETTE, CO

ROCK PRODUCTS

PREPARED FOR:

EXHIBIT D - MINE PLAN MAP

SHEET 2

SCALE 1"=100'	DWG NO. EXHIBIT D MINE PLAN MAP SHEETS 1-2 A-1.DWG	REV. REV
DRAWN BY: CTW	CHECKED BY: PFW	DATE: 01/09/17
		SHEET SHEET 2 of 2



GOOSE HAVEN RESERVOIR COMPLEX EXPANSION #2, #4 WEED MANAGEMENT PLAN

Prepared For:
The City of Lafayette
&
Rock Product of Colorado LLC

Prepared By:
Weiland, Inc.
P.O. Box 18087
Boulder, CO 80308

January 2017

1.0 MANAGEMENT AREAS

The weed management areas in this operation vary depending upon the phase of operation. The following areas are therefore differentiated as Mining Weed Management Areas and Reclamation Weed Management Areas;

1.1 MINING WEED MANAGEMENT AREAS

This weed management area includes of all ground within the Affected Area of the permit. The main areas that weeds tend to propagate at active sand and gravel mining sites are the topsoil and overburden stockpile areas as well as ground that has been disturbed by earthmoving equipment (side of road cuts, areas partially stripped etc.) The active mine sites tend to be less suitable for plant growth and therefore less of a concern.

1.2 RECLAMATION WEED MANAGEMENT AREAS

An important goal of reclamation following final grading is the establishment of vegetative cover to stabilize soils. Those areas identified in Exhibit F – Reclamation Plan Map for topsoil replacement/ revegetation. Weeds will also compete with planted grasses in the revegetation areas, therefore the revegetation areas will also become the primary weed management areas during and following reclamation.

2.0 WEED INVENTORY

2.1 EXISTING WEED INVENTORY

An initial weed inventory shall be conducted utilizing the fact sheets given in Appendix I for identification. The findings shall be recorded on the weed inventory sheet and map found in Appendix II. Weed areas shall be numbered on the map and the corresponding number shall be listed on the sheet.

3.0 WEED MANAGEMENT ACTIONS

3.1 WEED MANAGEMENT DURING MINING

Weed management during mining phases shall be performed at a minimum of once during the 1st quarter of the year twice during the second and third quarters and once in the fourth quarter. Weed management shall be performed by first performing a weed inventory as indicated above. If *any* “A” List weeds are found, then complete eradication shall be performed by application of herbicide or other methods as specified in the fact sheets for the given weed species. If any “B” List weeds are found, then they shall be either eradicated, contained, or suppressed by application of herbicide or other methods as specified in the fact sheets for the given weed species. If any “C” List weeds are found, then they shall be either eradicated, contained, or suppressed by application of herbicide or other methods as specified in the fact sheets for the given weed species

3.2 WEED MANAGEMENT DURNING RECLAMATION

Following the establishment of vegetation in those areas identified for revegetation shown on Exhibit F, the primary weed control mechanism shall be mowing. Weed

inventories and herbicide applications shall occur if needed as described in Section 3.1 above for 1 year following revegetation.

4.0 MONITORING

Monitoring is an essential component of weed management and as such has been included as part of weed management actions above (Section 3.0) in the form of weed inventories which shall be conducted once during the first quarter of each year followed by twice in the second and third quarters and one in the fourth quarter during the mining phases. For reclamation, monitoring of shall occur on the same schedule for 1 year following revegetation.

Key to Appendix I Fact Sheets

Common Name	Scientific Name	Weed Category	Pages - Appendix I
Bull Thistle	<i>Cirsium vulgare</i>	"B" list	1-2
Canada Thistle	<i>Cirsium arvense</i>	"B" list	3-4
Common Teasel	<i>Dipsacus spp</i>	"B" list	5-6
Dalmatian Toadflax	<i>Linaria dalmatica</i>	"B" list	7-8
Diffuse Knapweed	<i>Entaurea diffusa</i>	"B" list	9-10
Field Bindweed	<i>Onvolvulus arvensis</i>	"C" list	11-12
Hoary Cress	<i>Cardaria draba</i>	"B" list	13-14
Hounds tongue	<i>Cynoglossum officianale</i>	"B" list	15-16
Leafy Spurge	<i>Euphorbia esula</i>	"B" list	17-18
Mediterranean Sage	<i>Salvia aethiopis</i>	"A" list	19-20
Musk Thistle	<i>Carduus nutans</i>	"B" list	21-22
Myrtle Spurge	<i>Euphorbia myrsinites</i>	"A" list	23-24
Perennial Pepperweed	<i>Lepidium latifolium</i>	"B" list	25-26
Perennial Sowthistle	<i>Sonchus arvensis</i>	"C" list	27-28
Plumeless Thistle	<i>Arduus acanthoides</i>	"B" list	29-30
Purple Loosestrife	<i>Lythrum salicaria</i>	"A" list	31-32
Russian Knapweed	<i>Acroptilon repens</i>	"B" list	33-34
Russian Olive	<i>Elaeagnus angustifolia</i>	"B" list	35-36
Sat Cedar	<i>Tamarix spp.</i>	"B" list	37-38

Scotch Thistle	<i>Onopordum acanthium</i> or <i>O. tauricum</i>	"B" list	39-34
Spotted Knapweed	<i>Centaurea stoebe</i>	"B" list	41-42
Yellow Starthistle	<i>Centaurea solstitialis</i>	"A" list	43-44
Yellow Toadflax	<i>Linaria vulgaris</i>	"B" list	45-46

APPENDIX I

Bull thistle

List B Species

Rangeland, pasture, and riparian site recommendations

1

Colorado Department of
Agriculture

305 Interlocken Pkwy
Broomfield, CO 80021

(303) 869-9030
weeds@state.co.us



Key ID Points

1. Leaves are prickly-hairy above and cottony below.
2. Heads cobwebby-pubescent (hairy).
3. Flowers are composite and purple in color.

Bull thistle Identification and Management



Identification and Impacts

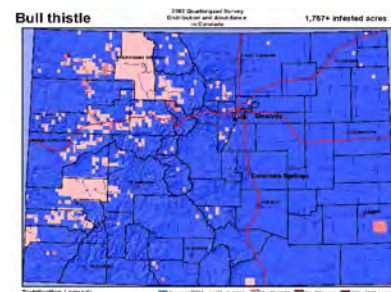
Bull thistle (*Cirsium vulgare* (Savi) Tenore) is a biennial forb that was introduced to North America as a seed contaminant and is now widespread. Gumdrop-shaped flowers are pinkish to dark purple in color and 1 ½ to 2 inches in diameter. The flower bracts are somewhat tapered and covered with spines. Seeds are capped with a circle of plume-like white hairs. Leaves are alternate. In Colorado, Bull thistles are the only species that are prickly hairy on the top and are cottony-hairy on the undersides of the leaves. In mature plants the leaves extend down, clasping the stem and are divided into segments. The plant has a short, fleshy taproot with several primary roots extending from the root crown. Seed leaves are round to spatulate, and smooth. Mature plants can produce up to 4,000 seeds per plant.

Habitats for Bull thistle include dry to moist environments. It thrives on nitrogen-rich soils, and it grows on gravelly to clay-textured soils. Bull thistle cannot withstand deep shade and is commonly seen in areas such as pastures, overgrazed rangeland, roadsides, and logged areas. Within Colorado Bull thistle infestations have been reported to occur in nearly all counties west of the continental divide, this plant has also been observed in the Upper Arkansas Watershed and in pockets on the plains. It is widespread throughout the United States and parts of Canada.

Hheavy infestations can reduce livestock forage. Additionally, the presence of bull thistle in hay decreases the forage value and lowers the market price. It is an aggressive weed, but it will not withstand cultivation. Bull thistle is often a transient species, appearing in recent clear cuts or disturbed areas and becoming a dominant species for several years. It has been reported to cause hay fever in some individuals and is often confused with musk thistle.

The key to effective control of Bull thistle is maintaining healthy pastures and rangeland, guarding against disturbance or overuse, and as with most biennial limit seed production. To reduce seed production, plants with buds or flowers should be collected and immediately disposed of or destroyed. Chemical control is most effective when plants are in rosette stage, spring or early fall. Mechanical controls can be used to eliminate small patches or plants in a later growth stages. Details on the back of this sheet can help to create a management plan compatible with your site ecology.

Bull thistle is designated as a "List B" species in the Colorado Noxious Weed Act. It is required to be either eradicated, contained, or suppressed depending on the local infestations. For more information visit www.colorado.gov/ag/weeds or call the State Weed Coordinator at the Colorado Department of Agriculture, Conservation Services Division, 303-239-4100.



Photos © Kelly Uhing, Colorado Department of Agriculture, map above by Crystal Andrews, Colorado Department of Agriculture,

Cirsium vulgare (Savi) Tenore

**CULTURAL**

Prevent the establishment of new infestations by minimizing disturbance and seed dispersal, eliminating seed production and maintaining healthy native communities. Contact your local Natural Resources Conservation Service for seed mix recommendations. Maintain healthy pastures and prevent bare spots caused by overgrazing.

**BIOLOGICAL**

Urophora stylata, a fly predator, is used to help control this thistle. The female fly lays eggs in the seed head of the thistle. The maggot then consumes the seed in the flower. This species has overwintered in Colorado but the limited numbers will not allow for general redistribution. For more information, contact the Palisade Insectary of the Colorado Department of Agriculture at 970-464-7916.

**MECHANICAL**

Because biennial thistles do not reproduce from their roots, any mechanical or physical method that severs the root below the soil surface will kill the weed. It is necessary to revegetate the site with desirable plants. Tillage, hoeing, or even hand-pulling should be successful (not on rangeland), providing it is done before the reproductive growth stages.

Integrated Weed Management:

Prevention is the most effective control with Bull thistle, maintaining healthy pastures and rangeland and continually monitor your property for new infestations.

As with most biennials, limiting seed production is another key to controlling plant populations. Chemical and mechanical options to control Bull thistle are also effective.

Bull thistle

HERBICIDES

NOTE: The following are recommendations for herbicides that can be applied to range and pasturelands. Rates are approximate and based on equipment with an output of 30 gal/acre. Please read label for exact rates. Always read, understand, and follow the label directions. The herbicide label is the LAW!

HERBICIDE	RATE	APPLICATION TIMING
Clopyralid (Transline or Stinger)	0.13 to 0.5	Apply to rosettes in spring or fall.
Clopyralid + 2,4-D (Curtail)	0.2 + 1.0 to 0.3 + 1.5	Apply to rosettes in spring or fall.
Dicamba (Banvel, Vanquish, or Clarity)	0.5 + 1.0	Apply to rosettes in spring or fall if good growing conditions exist.
2,4-D or 2,4-D + dicamba (Rangestar)	1.5 to 2.0 1.0 + 0.5	Apply to rosettes in spring.
Picloram (Tordon 22K *restricted use chemical)	0.13 to 0.25	Apply to rosettes in spring or fall.
Chlorsulfuron (Telar)	0.047 (0.75 oz ai)	Spring from bolting to bud stages; add a non-ionic surfactant
Metsulfuron (Escort XP)	0.019 (0.3 oz ai)	Spring from bolting to bud stages; add a non-ionic surfactant.

Canada Thistle Identification and Management

List B



its root system, and quickly form dense stands. Each fragmented piece of root, 0.25 inch or larger, is capable of forming new plants. The key to controlling Canada thistle is to eliminate seed production and to reduce the plant's nutrient reserves in its root system through persistent, long-term management.

Canada thistle is one of the most troublesome noxious weeds in the U.S. It can infest diverse land types, ranging from roadsides, ditch banks, riparian zones, meadows, pastures, irrigated cropland, to the most productive dryland cropland. Large infestations significantly reduce crop and cattle forage production and native plant species. It is a host plant to several agricultural pests and diseases. Canada thistle prefers moist soils, but it can be found in a variety of soil types. It has been found at elevations up to 12,000 feet.

Effective Canada thistle control requires a combination of methods. Prevention is the most important strategy. Maintain healthy pastures and rangelands, and continually monitor your property for new infestations. Established plants need to be continually stressed. Management options become limited once plants begin to produce seeds. Details on the back of this sheet can help to create a management plan compatible with your site ecology.

Canada thistle (*Cirsium arvense*) is a non-native, deep-rooted perennial that spreads by seeds and aggressive creeping, horizontal roots called rhizomes. Canada thistle can grow 2 to 4 feet in height. The leaves are oblong, spiny, bright green, and slightly hairy on the undersurface. Unlike other noxious biennial thistles which have a solitary flower at the end of each stem, Canada thistle flowers occur in small clusters of 1 to 5 flowers. They are about 1 cm in diameter, tubular shaped, and vary from white to purple in color.

Canada thistle emerges from its root system from late April through May. It flowers in late spring and throughout the summer. It produces about 1,000 to 1,500 seeds per plant that can be wind dispersed. Seeds survive in the soil for up to 20 years. Additionally, Canada thistle reproduces vegetatively through



Canada thistle

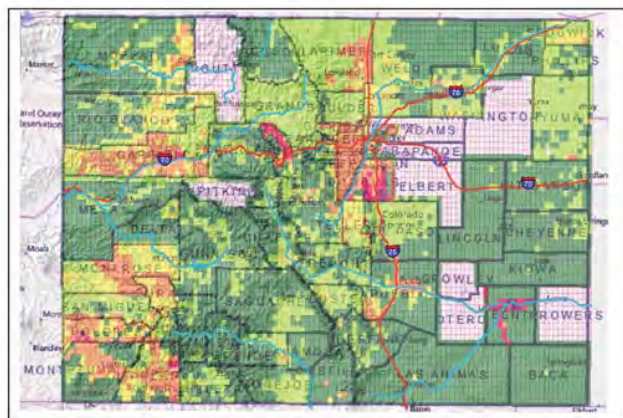
Cirsium arvense

2013 Quarter Quad Survey

Canada Thistle
Cirsium arvense

2013 Quarterquad Survey
Distribution and Abundance
in Colorado

129,572+ Infested Acres



Distribution Legend: 0 acres 1-10 acres 11-50 acres 51-300 acres 301-999 acres 1000+ acres Not Reported

Acreage estimates supplied by County Weed Coordinators and compiled by the Colorado Department of Agriculture.

Canada thistle is designated as a "List B" species as described in the Colorado Noxious Weed Act. It is required to be either eliminated, contained, or suppressed depending on the local infestations. For more information visit www.colorado.gov/ag/weeds and click on the Noxious Weed Program link or call the State Weed Coordinator at the Colorado Department of Agriculture, Conservation Services Division, (303) 869-9030.

Key ID Points

1. Cluster of 1-5 white to purple flowers on a stem.
2. Floral bracts are spineless.
3. Small flowers that are 1 cm in diameter.
4. Perennial, rhizomatous plant with spiny, oblong, green leaves.

Integrated Weed Management Recommendations

Integrated weed management is imperative for effective Canada thistle control. This weed needs to be continually stressed, forcing it to exhaust root nutrient stores, and eventually die. Mowing or grazing can be followed up with herbicide application. Avoid hand-pulling and tilling which can stimulate the growth of new plants.



CULTURAL

Prevention is the best control strategy. Maintain healthy pastures, riparian areas, and rangelands. Prevent bare ground caused by overgrazing, and continually monitor your property for new infestations. Establishment of select grasses can be an effective control.

BIOLOGICAL

Cattle, goats, and sheep will graze on Canada thistle when plants are young and succulent in the spring. Follow up grazing with a fall herbicide application. Insects are available, and provide limited control. Currently, collection and distribution methods for Canada thistle rust (*Puccinia punctiformis*) are being refined. For more information on Canada thistle biocontrol, contact the Colorado Department of Agriculture - Palisade Insectary at (970) 464-7916.

MECHANICAL

Due to Canada thistle's extensive root system, hand-pulling and tilling create root fragments and stimulate the growth of new plants. Mowing can be effective if done every 10 to 21 days throughout the growing season. Combining mowing with herbicides will further enhance Canada thistle control.

CHEMICAL

The table below includes recommendations for herbicides that can be applied to rangeland and some pastures. Treatments may be necessary for an additional 1 to 3 years because of root nutrient stores. Always read, understand, and follow the label directions.

HERBICIDE	RATE	APPLICATION TIMING
Aminopyralid (Milestone)	5-7 oz/acre or 1 teaspoon/gal water	Apply in spring until flowering and/or to fall regrowth. Add 0.25% v/v non-ionic surfactant (equivalent to 0.32oz/gal water or 1 qt/100 gal water). Can also add chlorsulfuron (Telar) at 1 oz/acre to the mix.
Aminoclopyrachlor + chlorsulfuron (Perspective)	5.5 oz product/acre + 0.25% v/v non-ionic surfactant	Apply in spring from rosette to flower bud stage and/or fall regrowth. Important: Applications greater than 5.5 oz product/acre exceeds the threshold for selectivity. DO NOT treat in the root zone of desirable trees and shrubs. Not permitted for use in the San Luis Valley.
Clopyralid + triclopyr (Prescott; others)	3 pints product/acre or 1.25 oz/gal water	Apply in spring until flowering and/or fall regrowth. Add 0.25% v/v non-ionic surfactant.

Canada thistle

Cirsium arvense

List B Species

Rangeland, pasture, and riparian site recommendations

1

Common

Colorado Department of
Agriculture305 Interlocken Pkwy
Broomfield, CO 80021(303) 869-9030
weeds@state.co.us

Key ID Points

1. Grows over 6 feet tall.
2. Leaves at the base are dark green and appear rippled.
3. Flowers are purple or white.

Updated on:
08/08

Common teasel

Identification and Management



Identification and Impacts

Common teasel (*Dipsacus spp.*) is a biennial or sometimes monocarpic perennial forb. The fruits are a four-angled achene, each containing a single seed. Common teasel can produce more than 2,000 seeds per plant. The flowers are purple or white with spiny, awned bracts at the base. The flower head is generally egg-shaped, with a square base. The floral bracts at the base of the head are generally longer than the head. Rosette leaves are conspicuously veined, with stiff prickles on the lower midrib and appear to be wrinkled. Stem leaves are simple, opposite, net-veined, stalkless, and clasp the stem. Mature plants can grow up to or over six feet tall. The taprooted stem is rigid with several rows of downward turned prickles. Plants die after production of seed has occurred.

Habitats for Common teasel include open, sunny habitats that range from wet to dry levels. It is generally found along irrigation ditches, rivers, abandoned fields, pastures, waste places, and forests. Common teasel is spreading rapidly in America, particularly in the Pacific Northwest. In Colorado, teasel is usually found in relatively moist, disturbed situations but is moving into drier areas. Seeds can stay viable for at least 2 years. Seeds

don't generally disperse far from the parent plant. Plants can regenerate fairly easily, due to the bare ground where the basal leaves were. Common teasel is native to Europe where it historically had many uses.

The key to effective control of Common teasel is prevention. Eliminate seed production to decrease the spread of this forb, and continue to deplete the seed bank for four to six years. Reseeding areas with perennial grasses for several years will reduce an infestation. Mechanical and chemical control methods are effective when dealing with Common teasel. Details on the back of this sheet can help to create a management plan compatible with your site ecology.

Common teasel is designated as a "List B" species in the Colorado Noxious Weed Act. It is required to be either eradicated, contained, or suppressed depending on the local infestations. For more information visit www.colorado.gov/ag/weeds and click on the Noxious Weed Management Program. Or call the State Weed Coordinator at the Colorado Department of Agriculture, Conservation Services

Photos © Kelly Uhing, Colorado Department of
Agriculture.*Dipsacus spp.*

**CULTURAL**

Prevent the establishment of new infestations by minimizing disturbance and seed dispersal, eliminating seed production and maintaining healthy native communities. Contact your local Natural Resources Conservation Service for seed mix recommendations. Maintain healthy pastures and prevent bare spots caused by overgrazing.

**BIOLOGICAL**

There is no biological control available for Common teasel. Since biological control agents take years to research, develop and release, no releases are expected in the foreseeable future. For more information, contact the Palisade Insectary of the Colorado Department of Agriculture at 970-464-7916.

**MECHANICAL**

Treatments such as digging and cutting can be effective in certain situations. Digging at the rosette and bolting stage, making sure that the majority of the root comes up, can be effective. Cutting plants when near the flowering stage is also effective. When using either of these methods, revisiting the site frequently is recommended to ensure regrowth does not occur.

Integrated Weed Management:

The key to controlling Common teasel is to eliminate seed production and exhaust the seed bank in the soil. Common teasel does not reproduce vegetatively and dies after seed production.

Mechanical and chemical control methods can be effective.

Common teasel

HERBICIDES

NOTE: The following are recommendations for herbicides that can be applied to range and pasturelands. Rates are approximate and based on equipment with an output of 30 gal/acre. Please read label for exact rates. **Always read, understand, and follow the label directions. The herbicide label is the LAW!**

HERBICIDE	RATE	APPLICATION TIMING
Metsulfuron (Escort XP)	1 oz. of product/ac. + 0.25% v/v non-ionic surfactant	Apply when in rosette or bolting growth stage. (Spring or Fall rosettes or Early summer bolting)
Aminopyralid (Milestone)	4 to 7 fl. oz./ac. (start with 7 fl. oz.) + 0.25% v/v non-ionic surfactant	Apply when in rosette or bolting growth stage. Best choice of herbicide to use in riparian areas. (Spring or Fall rosettes or Early summer bolting)
Imazapic (Plateau)	8 to 12 fl. oz./ac. + 2 pt/ac. methylated seed oil	Apply when in rosette or bolting growth stage. Good choice of herbicide to use in riparian areas. (Spring or Fall rosettes or Early summer bolting)

Photos © Steve Dewey, Utah State University, Bugwood.org.

Dalmatian toadflax

List B Species

Rangeland, pasture, and riparian site recommendations

1

Colorado Department of
Agriculture

305 Interlocken Pkwy
Broomfield, CO 80021

(303) 869-9030
weeds@state.co.us



Key ID Points

1. Showy yellow snapdragon-like flowers with an orange throat on elongated racemes.
2. Thick, waxy, bluish heart-shaped leaves that wrap the stem.

Dalmatian toadflax Identification and Management



Identification and Impacts

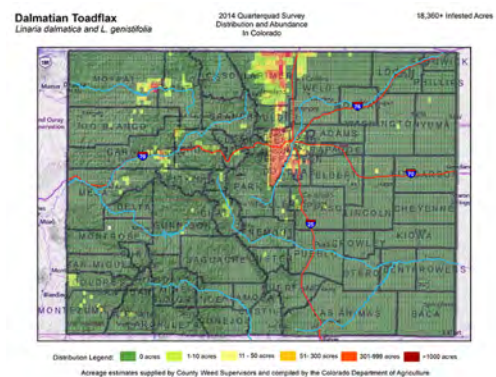
Dalmatian toadflax (*Linaria dalmatica*) is a non-native, perennial forb introduced from the Mediterranean region as a folk remedy, fabric dye and ornamental. It reproduces both by seed and by extensive, creeping rhizomes. A single plant produces 500,000 seeds, most of which fall within 18 inches of the parent plant. Seeds can remain viable for at least 10 years. Dalmatian toadflax grows to 3 feet, and has bright yellow snapdragon-like flowers with an orange throat on elongated racemes. The alternate leaves are broad, with a thick, waxy cuticle and a bluish cast. Each leaf is heart-shaped and wraps the stem.

Habitats for Dalmatian toadflax include disturbed open sites, fields, pastures, rangeland, roadsides, cropland and forest clearings. Infestations can begin in small disturbed sites, then spread even to rangeland and wildlife habitats in excellent condition. Dalmatian toadflax is a highly aggressive plant that can genetically adapt to varied environmental conditions and herbicide controls. Its extreme competitiveness is due to early spring regeneration from vegetative buds on roots that are not dependent on soil moisture or native plant competition. Once established, toadflax quickly overruns native plants and becomes

a monoculture that severely reduces forage, productivity, biodiversity and wildlife habitat.

The key to effective control of Dalmatian toadflax is prevention and integrating as many management strategies as possible. Prevention is always desirable when dealing with Dalmatian toadflax. Early detection and eradication can keep populations from exploding, making more management options available. With the plants varying genetically using many different approaches is important such as; chemical, mechanical, cultural and biological methods. Details on the back of this sheet can help to create a management plan compatible with your site ecology.

Dalmatian toadflax is designated as a "List B" species in the Colorado Noxious Weed Act. It is required to be either eradicated, contained, or suppressed depending on the local infestations. For more information visit www.colorado.gov/ag/csd and click on the Noxious Weed Management Program. Or call the State Weed Coordinator at the Colorado Department of Agriculture, Conservation Services Division, 303-239-4100.

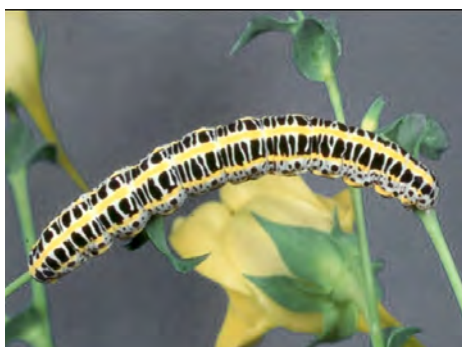


Clockwise, from lower left, photos © John M. Randall of The Nature Conservancy; and Linda Wilson and Susan Turner of Invasive.org. Infestation map by Crystal Andrews, Colorado Department of Agriculture.

Linaria dalmatica

**CULTURAL**

It is imperative to seed managed areas with competitive grasses such as thickspike wheatgrass and streambank wheatgrass. The combination of herbicide spraying and seeding competitive grasses controls Dalmatian toadflax better than spraying alone. (K.G. Beck, CSU)

**BIOLOGICAL**

Calophasia lunula, a predatory noctuid moth, feeds on leaves and flowers of Dalmatian toadflax. *Eteobalea intermediella*, a root boring moth, and *Mecinus janthinus*, a stem boring weevil, are also available. For more information, contact the Palisade Insectary of the Colorado Department of Agriculture at 970-464-7916.

**MECHANICAL**

For small infestations, pulling toadflax by hand can be effective. Pull every year for 5 to 6 years to deplete the reserves of the root system. Monitor the site for 10 - 15 years to remove seedlings produced from dormant seeds.

Integrated Weed Management:

Because of the high genetic variability of the toadflax species, it is critical to integrate as many management strategies as possible into the control program. Two local populations may respond differently to the same herbicides.

Keys to management are to prevent seed formation and vegetative spread by roots.

Controlling toadflaxes is expensive and difficult, prevention is the best option.

HERBICIDES

NOTE: The following are recommendations for herbicides that can be applied to range and pasturelands. Rates are approximate and based on equipment with an output of 30 gal./acre. Please read label for exact rates. **Always read, understand, and follow the label directions. The herbicide label is the LAW!**

HERBICIDE	RATE	APPLICATION TIMING
Picloram (Tordon 22K) *Avoid spraying near trees and/or water	2-4 pints/acre	Apply when flowering in spring and/or in the fall. Add non-ionic surfactant @ 0.32oz/gal water or 1 qt./100 gal water.
Chlorsulfuron (Telar)	2-3 oz./acre	Apply at flower stage in spring and/or in the fall. Add non-ionic surfactant @ 0.32 oz/gal. water or 1 qt./100 gal. water.
2,4-D + Dicamba (Rangestar)	2 qt. + 2 qt/ acre	Apply during pre-bloom to flower stage in spring. Add non-ionic surfactant @ 0.32 oz/gal. water or 1 qt./100gal water. Retreatment is required for several years.

Top photo, © Kelly Uhing, Colorado Department of Agriculture. *Calophasia lunula* larva photo © Bob Richard, USDA APHIS, Invasive.org. Handpulling toadflax photo © Lake Tahoe Environmental Education Coalition.

Dalmatian toadflax



Diffuse knapweed

List B Species

Rangeland, pasture, and riparian site recommendations

1

Colorado Department of
Agriculture

305 Interlocken Pkwy
Broomfield, CO 80021

(303) 869-9030
weeds@state.co.us



Key ID Points

1. Floral bracts have yellow spines with teeth appearing as a comb and a distinct terminal spine.
2. Flowers are white or lavender.
3. Seedlings have finely divided leaves

Diffuse knapweed Identification and Management



Identification and Impacts

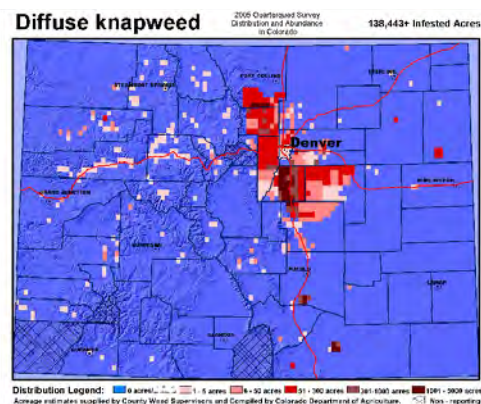
Diffuse knapweed (*Centaurea diffusa*) is a non-native biennial forb that reproduces solely by seed. A biennial is a plant that completes its lifecycle within two years. During the first year of growth, diffuse knapweed appears as a rosette in spring or fall. During the second year in mid to late spring – the stem bolts, flowers, sets seed, and the plant dies. Once the plant dries up, it breaks off at ground level and becomes a tumbleweed which disperses the still viable seeds over long distances. A prolific seed producer, diffuse knapweed can produce up to 18,000 seeds per plant. Therefore, the key to managing this plant is to prevent seed production. Diffuse knapweed can grow 1 to 3 feet tall, and is diffusely branched above ground. This gives the plant a ball-shaped appearance and tumble-weed mobility when broken off. Leaves are small, and are reduced in size near the flowering heads. Flowers are mostly white, sometimes purple, urn-shaped, and are located on each branch tip. Bracts that enclose the flowerheads are divided like the teeth of a comb, and are tipped with a distinct slender spine. Upon drying, the bracts become rough, rendering them injurious to the touch. Flowers bloom July through August. Seed set usually occurs by mid-August.

Diffuse knapweed tends to invade disturbed, overgrazed areas. Other habitats may also include rangeland, roadsides, riparian areas, and trails. It is a tough competitor

on dry sites and rapidly invades and dominates disturbed areas. Once established, diffuse knapweed outcompetes and reduces the quantity of desirable native species such as perennial grasses. As a result, biodiversity and land values are reduced, and soil erosion is increased.

The key to effective control of Diffuse knapweed is to prevent the plant from flowering and going to seed. An integrated weed management approach dealing with Diffuse knapweed is highly recommended. There are many options of mechanical, chemical, and biological controls, available. Details on the back of this sheet can help to create a management plan compatible with your site ecology.

Diffuse knapweed is designated as a "List B" species on the Colorado Noxious Weed Act. It is required to be either eradicated, contained, or suppressed depending on the local infestations. For more information, visit www.colorado.gov/ag/csd and click on the Noxious Weed Program link or call the State Weed Coordinator at the Colorado Department of Agriculture, Conservation Services Division at 303-239-4100.



Plant photo, top © Kelly Uhing. Infestation map above, Crystal Andrews. Flower photo © Cindy Roche. Rosette and leaf photos © Dale Swenarton.

Centaurea diffusa

**CULTURAL**

Establishment of selected grasses can be an effective cultural control of diffuse knapweed. Contact your local Natural Resources Conservation Service for seed mix recommendations. Maintain healthy pastures and prevent bare spots caused by overgrazing. Bareground is prime habitat for weed invasions.

**BIOLOGICAL**

The seedhead weevil (*Larinus minutus*) and the root weevil fly (*Cyphocleonus achates*) provide fair to good control when used in combination with each other. Expect to wait at least 3 to 5 years for the insects to establish and achieve optimum results. This is an option for large infestations. To obtain the insects, contact the Colorado Department of Agriculture, 970-464-7916.

**MECHANICAL**

Any mechanical or physical method that severs the root below the soil surface will kill diffuse knapweed. Mowing or chopping is most effective when diffuse knapweed plants are at full-bloom. Be sure to properly dispose of the flowering cut plants, since seeds can mature and become viable after the plant has been cut down.

Integrated Weed Management:

Diffuse knapweed is best controlled in the rosette stage. It is imperative to prevent seed production. Do not allow diffuse knapweed flowers to appear. Management must be persistent in order to deplete the seed bank in the soil.

HERBICIDES : The following are recommendations for herbicides that can be applied to range and pasturelands. Always read, understand, and follow the label directions. Rates are approximate and based on equipment with an output of 30 gal/acre. Please read label for exact rates. **The herbicide label is the LAW!**

HERBICIDE	RATE	APPLICATION TIMING
Aminopyralid (Milestone)	5-7 ounces/acre or 1 teaspoon/gal water	Spring at rosette to early bolt stage and/or in the fall to rosettes. Add non-ionic surfactant @ 0.32oz/gal water or 1 qt/100 gal water.
2,4-D Amine	1 qt./acre or 1 oz/gal water	Apply to spring/fall rosettes - before flowering stalk lengthens. DO NOT apply when outside temperatures will exceed 85 degrees. Add non-ionic surfactant @ 0.32oz/gal water or 1qt/100 gal water.
Clopyralid + Triclopyr (Redeem R&P)	1.5-2 pints/acre or 0.75 oz/gal water	Apply from rosette to early bolt stage of growth and/or in the fall to rosettes. Add non-ionic surfactant @ 0.32oz/gal water or 1qt/100 gal water.
Picloram (Tordon 22K *this is a Restricted Use Pesticide*)	1-2 pts/acre or 0.75 oz/gal water	Apply to spring rosettes through mid-bolt and in fall to rosettes. DO NOT apply near trees/shrubs/high water table.

Diffuse knapweed



Field bindweed

List C Species

Rangeland, pasture, and riparian site recommendations

1

Colorado Department of
Agriculture

305 Interlocken Pkwy
Broomfield, CO 80021

(303) 869-9030
weeds@state.co.us



Key ID Points

1. Leaves are shaped like arrowheads.
2. Flowers are funnel-shaped, white to pink, and have two small bracts one inch below the flower base.

Field bindweed Identification and Management



Identification and Impacts

Field bindweed (*Convolvulus arvensis*) is a non-native deep-rooted perennial that reproduces from seed and creeping, horizontal roots (rhizomes). Field bindweed stems are prostrate (grows low to the ground) and twining, and grow up to 6 feet long. Leaves are distinguishable by their arrowhead shape. The flowers are bell or trumpet-shaped, white to pink in color, and are about 1 inch long. Field bindweed seeds can remain viable in the soil for up to 40 years.

Field bindweed emerges from its root system in the spring. Flowering occurs from June to September and until the first fall frost. The number of seeds produced per plant ranges from 25 to 300 and seed production is variable depending on environmental conditions. Field bindweed is an extremely difficult noxious weed to control because, in part, of its taproot that may go 20 feet deep into the soil, and which repeatedly gives rise to numerous long rhizomes.

Field bindweed is a problem throughout Colorado. It is one of the most competitive perennial weeds. It is widespread in cultivated areas, pastures, lawns, gardens, roadsides, and waste areas from 4,000 to 8,000

feet in elevation.

To successfully manage field bindweed, containment and persistence in controlling existing stands are necessary in order to exhaust the root system and deplete the soil seed bank. This weed needs to be continually stressed, forcing it to exhaust root nutrient stores and eventually die. Of all control methods, prevention is most important. Maintain healthy pastures and rangeland and continually monitor your property for new infestations. A healthy cover of desirable perennial plants will assist in discouraging field bindweed establishment.

Field bindweed is designated as a "List C" species on the Colorado Noxious Weed Act. It is required to be either eradicated, contained, or suppressed depending on the local jurisdictions managing this species.

On the back of this sheet are field bindweed management recommendations. For more information, visit www.ag.state.co.us/csd/csdhome.html. Or call the State Weed Coordinator at the Colorado Department of Agriculture, Conservation Services Division, 303-239-4100.



White flower © Mary Ellen Harte, Invasive.org.
All other photos © Kelly Uhing.

Convolvulus arvensis

**CULTURAL**

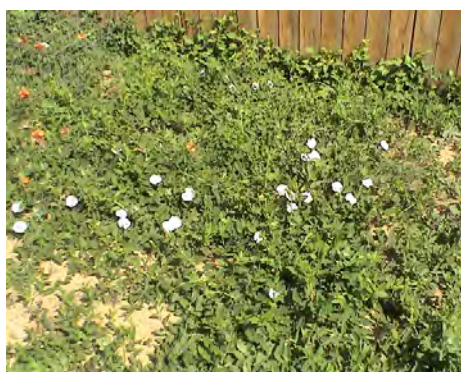
Establishment of selected grasses can be an effective cultural control of field bindweed. Contact your local Natural Resources Conservation Service for seed mix recommendations. Maintain healthy pastures and prevent bare spots caused by overgrazing. Bareground is prime habitat for **weed invasions**.



Bindweed mite damage

BIOLOGICAL

The bindweed gall mite, *Aceria mahlerbae*, has proven to be effective in reducing field bindweed infestations. This is an option for large infestations. To obtain a mite release, contact the Colorado Department of Agriculture, 970-464-7916.

**MECHANICAL**

Cutting, mowing, or pulling has a negligible effect unless the plants are cut below the surface in the early seedling stage. Well-established populations have a large seed bank in the soil that can remain viable for over 40 years.

Integrated Weed Management:

Field bindweed requires active management once it is established because of its potential to regenerate rapidly. Even small infestations should be viewed as a serious threat and managed aggressively.

Contain and persistently control infestations in order to exhaust the root system and deplete the soil seed bank.

Maintain a healthy cover of perennial plants to discourage field bindweed establishment.

HERBICIDES: The following are recommendations for herbicides that can be applied to range and pasturelands. *Rates are approximate and based on equipment with an output of 30 gallons per acre. Please read label for exact rates.* Always read, understand, and follow the label directions. **The herbicide label is the LAW!**

HERBICIDE	RATE	APPLICATION TIMING
Clarity + 2,4-D Amine	1 qt./acre or 1 oz/gal water	Just after full-bloom and/or fall. DO NOT apply near or under trees/shrubs or where soils have rapid permeability. DO NOT apply when outside temperatures will exceed 85 degrees. Add non-ionic surfactant @ 0.32oz/gal water or 1 qt/100 gal water.
Tordon 22K *this is a Restricted Use Pesticide*	1 qt./acre or 1 oz/gal water	Just after full-bloom and/or fall. DO NOT apply near or under trees/shrubs or where soils have rapid permeability. Add non-ionic surfactant @ 0.32oz/gal water or 1qt/100 gal water.
Roundup Ultra *non-selective herbicide, will kill all vegetation*	4 - 5 qts./acre or 4 - 5 oz/gal water	Apply at full-bloom and/or fall. Add non-ionic surfactant @ 0.32oz/gal water or 1qt/100 gal water. Use caution when applying near grasses or other desirable vegetation.

Field bindweed



Hoary cress

List B Species

Rangeland, pasture, and riparian site recommendations

1

Colorado Department of
Agriculture

305 Interlocken Pkwy
Broomfield, CO 80021

(303) 869-9030
weeds@state.co.us



Key ID Points

1. White flowers.
2. Grows erect 10-24" in height.
3. Leaf is 3/4-4" long with blunt end and fine white hairs.

Hoary cress Identification and Management

well on alkaline soils.



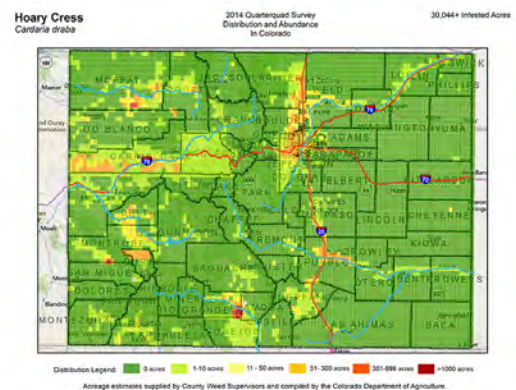
Identification and Impacts

Hoary cress (*Cardaria draba*), commonly known as whitetop, is a creeping perennial that is a member of the mustard family and native to Europe. The stems, in the rosette stage, may grow up to 2 inches in height and produce grayish-green leaves that are lance shaped. The leaves are alternate and 3/4 to 4 inches long. The upper leaves have 2 lobes that clasp the stem. The plant has numerous small, white flowers with 4 petals on stalks radiating from a stem. Seed capsules are heart-shaped with two small, flat, reddish brown seeds. One plant can produce from 1,200 to 4,800 seeds. The plants emerge in early spring with stems emerging from the center of each rosette in late April. Hoary cress flowers from May to June and plants set seed by mid-summer.

Habitats for Hoary Cress include: fields, waste places, meadows, pastures, croplands and along roadsides. It is typically found on unshaded, generally open areas of disturbed ground. It generally does better with moderate amounts of precipitation and grows

The key to effective control of Hoary cress is prevention. Preventing the encroachment of these weeds is the most cost-effective management. Preventing invasions by limiting seed dispersal, monitoring and using weed free hay, and quarantine animals that may have grazed in infested areas. Beyond prevention, the key is early detection when infestations are small, and aggressive management. Integrated Weed Management is required for proper control. Details on the back of this sheet can help to create a management plan compatible with your site ecology.

Hoary cress is designated as a "List B" species in the Colorado Noxious Weed Act. It is required to be either eradicated, contained, or suppressed depending on the local infestations. For more information visit www.colorado.gov/ag/weeds and click on the Noxious Weed Management Program. Or call the State Weed Coordinator at the Colorado Department of Agriculture, Conservation Services Division, 303-239-4100.



Photos © Kelly Uhing, Colorado Department of Agriculture; Mark Schwarzlander, University of Idaho, Above map: Crystal Andrews, Colorado Department of Agriculture,

Cardaria draba

Integrated Weed Management recommendations

List B Species

**CULTURAL**

Prevent the establishment of new infestations by minimizing disturbance and seed dispersal, eliminating seed production and maintaining healthy native communities. Contact your local Natural Resources Conservation Service for seed mix recommendations. Planting competitive legumes, such as alfalfa, can reduce Hoary cress in crop rotations.

**BIOLOGICAL**

There is no biological control available for Hoary cress. Since biological control agents take years to research, develop and release, no releases are expected in the foreseeable future. For more information, contact the Palisade Insectary of the Colorado Department of Agriculture at 970-464-7916.

**MECHANICAL**

Mowing several times before the plants bolt stresses Hoary cress and forces the plant to use nutrient reserves stored in the root system. Combining mowing with herbicides will further enhance control of this weed. Mow repeatedly during the summer, then apply a herbicide in the fall.

Integrated Weed Management:

No single treatment provides effective, long term control. The best and first defense is always prevention. Once established, integrate a variety of combinations of competitive planting, crop rotations, and herbicides. This can reduce Hoary cress to manageable levels.

Hoary cress

HERBICIDES

NOTE: The following are recommendations for herbicides that can be applied to range and pasturelands. Rates are approximate and based on equipment with an output of 30 gal/acre. Please read label for exact rates. Always read, understand, and follow the label directions. The herbicide label is the LAW!

HERBICIDE	RATE	APPLICATION TIMING
Metsulfuron (Escort XP)	1 oz. product/acre 0.25 v/v non-ionic surfactant	Apply at the early bud growth stage; i.e. "broccoli" growth stage. (Early Spring to Early Summer)
Chlorsulfuron (Telar)	1 oz. product/acre 0.25 v/v non-ionic surfactant	Apply at the early bud growth stage; i.e. "broccoli" growth stage. (Early Spring to Early Summer)
Imazapic (Plateau)	12 fl. oz./acre + 2 pints/acre methylated seed oil or crop oil concentrate	Apply at late flower to post-flower growth stage. (Late Spring to Mid Summer)

Houndstongue

Colorado Department of
Agriculture

305 Interlocken Pkwy
Broomfield, CO 80021

(303) 869-9030
weeds@state.co.us



Key ID Points

1. Panicles of reddish-purple flowers with 5 petals and 5 soft, hairy sepals.
2. Velcro-like seeds with 4 nutlets.

Houndstongue Identification and Management



Identification and Impacts

Houndstongue (*Cynoglossum officinale*) is a short lived perennial or biennial forb. It produces rosettes in the first year, and bolts a stout, erect stem that is 1 to 4 feet tall, by mid-summer of the second year. Then it flowers and produces fruit. Flowers are reddish-purple (occasionally white) and droop slightly from densely clustered panicles. The five rounded petals are cupped by five sepals covered with long, soft white hairs. Flowering occurs May to July. The simple leaves are lance or oblong shaped, with a smooth edge and no teeth or lobes. Leaves are alternate, 1 to 12 inches long and 1 to 3 inches wide. The leaf tip is sharply pointed, like a hound's tongue, yet are covered with long-soft white hairs. Leaves often appear dusty and insect-ridden. A thick, dark, woody taproot can reach 3 to 4 feet deep.

Reproduction is solely by seeds. Seeds are 4 prickly teardrop-shaped nutlets, which are packed in a pyramid-shaped receptacle. Most seeds fall close to the parent plant, but the seeds can travel great distances. The seeds have barbs like Velcro, with a hooked tip that clings to animals, clothing and machinery. A mature plant can produce 2,000 seeds. Seed viability is 1 to 3 years. Houndstongue is poisonous. Toxic pyrrolizidine alkaloids in Houndstongue stop liver cells from reproducing. Livestock and

wildlife may live up to six months after ingesting a lethal dose. Though the plant has a distinctive odor that repels animals, it is more palatable when dried. Animals rarely eat it unless it is dried and mixed with hay. Houndstongue's toxicity effects horses and cattle more severely, sheep seem more resistant. Burs will reduce the value of sheep wool if present.

Habitats for Houndstongue are open to shady, moist, disturbed areas, along trails, roadsides, fields, pasture, rangeland, along the edge of forests, sand dunes and ditch banks. Houndstongue prefers moist areas, but often grows on sandy or gravelly alkaline soil up to 9,000 feet elevation. Areas with more than 10% bare ground are particularly vulnerable to Houndstongue invasions.

The key to effective control of Houndstongue is preventing establishment and to prevent seed production. Planting competing and desirable grasses and forbs can be effective. Helping with reestablishment of disturbed sites. An integrated weed management approach can also be successful. Chemical, mechanical, and biological controls can be effective when dealing with Houndstongue. Details on the back of this sheet can help to create a management plan compatible with your site ecology.

Houndstongue is designated as a "List B" species in the Colorado Noxious Weed Act. It is required to be either eradicated, contained, or suppressed depending on the local infestations. For more information visit www.colorado.gov/ag/csd and click on the Noxious Weed Management Program. Or call the State Weed Coordinator at the Colorado Department of Agriculture, Conservation Services Division, 303-239-4100.

Photos: top left Aspen County, CO; all other Kelly Uhing, Colorado Department of Agriculture.

Cynoglossum officinale

**CULTURAL**

Prevent the establishment of new infestations by minimizing disturbance and seed dispersal, eliminating seed production and maintaining healthy native communities. Contact your local Natural Resources Conservation Service for seed mix recommendations. Maintain healthy pastures and prevent bare spots caused by overgrazing.

**BIOLOGICAL**

A root weevil, *Mogulones cruciger*, has been successful in Canada and introduced in Montana, but has not yet been approved for use in Colorado. For more information, contact the Palisade Insectary of the Colorado Department of Agriculture at 970-464-7916.

**MECHANICAL**

Cut or pull plants, and remove entire root crown when plants are in the rosette stage. Remove dense litter layer (up to 4 inches) to stimulate germination of desired plants. To reduce seed production, mow or cut flowering stems before seed nutlets develop, this can significantly reduce seed production.

Integrated Weed Management:

Prevention is the best option when dealing with Houndstongue. Use only certified weed-free hay. If an infestation does occur, reducing the seed production is key in controlling Houndstongue. Chemical, mechanical and the developing biological controls can also be effective management techniques.

Houndstongue

HERBICIDES

NOTE: The following are recommendations for herbicides that can be applied to specific areas. Rates are approximate and based on equipment with an output of 30 gal./acre. **Always read, understand, and follow the label directions. The herbicide label is the LAW!**

HERBICIDE	RATE	APPLICATION TIMING
Metsulfuron Methyl + Chlorsulfuron (Cimarron X-tra)	2.0 oz. product/acre + 0.25% v/v non-ionic surfactant	Apply in spring rosette to early bud growth stages.
Picloram + 2,4-D (Grazon P+D)	4 pints/acre + 0.25% v/v non-ionic surfactant	Apply in spring rosette stage.

List B Species

Rangeland, pasture, and riparian site recommendations

1

Leafy spurge

Colorado Department of
Agriculture

305 Interlocken Pkwy
Broomfield, CO 80021

(303) 869-9030
weeds@state.co.us



Key ID Points

1. Flowers are yellowish-green and have a pair of heart shaped yellow-green bracts below each inconspicuous flower.
2. The entire plant contains white, milky latex.

Leafy spurge Identification and Management



Identification and Impacts

Leafty spurge (*Euphorbia esula*) is a non-native deep-rooted perennial that spreads by seed and extensive, creeping roots. The roots can extend as deep as 30 feet into the soil and are extremely wide-spreading. The roots are brown and contain numerous pink buds that generally produce new shoots or roots. Leafy spurge can grow from 1 to 3 feet in height. The stems are smooth, pale green, and thickly clustered. Leaves are alternate, narrow, linear, and 1 to 4 inches long. The flowers are very small and yellowish-green. They are enclosed by very visible yellowish-green, heart-shaped bracts. The entire plant contains white, milky sap that exudes readily upon stem or leaf breakage. This sap can damage eyes and sensitive skin. Leafy spurge is one of the earliest plants to emerge in the spring. Flower clusters develop 1 to 2 weeks after stem emergence which is from mid-April to late May. One large leafy spurge plant can produce up to 130,000 seeds. Three-sided seed capsules explode when ripe and project the seeds up to 15 feet away from the parent plant.

Leafty spurge has adapted to a wide variety of habitats in the state and is very competitive with other plant species. Where it becomes established in rangeland, pasture, and riparian sites, it crowds out practically all other vegetation. The competitive,

rapidly growing, and extensive root system makes leafy spurge very difficult to manage. Develop a management plan that uses several control methods that are compatible with your site.

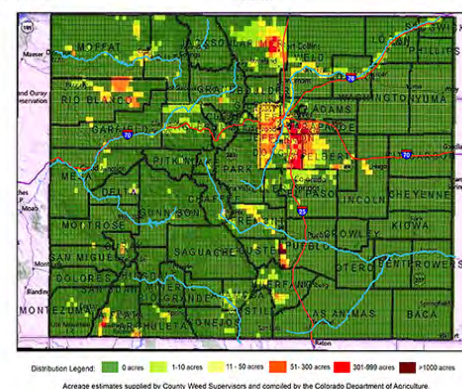
The most effective method of control for Leafy spurge is to prevent its establishment through proper land management. Maintain healthy pastures and rangeland and continually monitor your property for new infestations. New infestations are much more easily controlled than established infestations. Details on the back of this sheet can help to create a management plan compatible with your site ecology.

Leafty spurge is designated as a "List B" species on the Colorado Noxious Weed Act. It is required to be either eradicated, contained, or suppressed depending on the local infestations. On the back of this sheet are leafy spurge management recommendations. For more information, please visit www.colorado.gov/ag/csd and click on the Noxious Weed Program link. Or contact the State Weed Coordinator at the Colorado Department of Agriculture, Conservation Services Division, 303-239-4100.

Leafy Spurge
Euphorbia esula

2014 Quarantine Survey
Distribution and Abundance
in Colorado

39,577+ Infested Acres



Flower photo, top, © Norman Rees, USDA, APHIS. Invasive.org. All other photos © Kelly Uhing.

Euphorbia esula

**CULTURAL**

Establishment of selected grasses can be an effective cultural control of leafy spurge. Contact your local Natural Resources Conservation Service for seed mix recommendations. Maintain healthy pastures and prevent bare spots caused by overgrazing. Bareground is prime habitat for weed invasions.

**BIOLOGICAL**

Both sheep and goats can be effective grazers of leafy spurge. The flea beetles *Apthona nigricutis*, *A. lacertosa*, and *A. cyparissiae*, are effective especially when combined with grazing and/or herbicides. For more information, contact the Palisade Insectary of the Colorado Department of Agriculture, 970-464-7916.

Photo © USDA.

**MECHANICAL**

Due to the extensive root system, hand-pulling this plant is not a viable option. Mowing will reduce seed production if repeated every 2 to 4 weeks during the growing season, but will provide little long-term control.

Integrated Weed Management:

Persistent monitoring of areas with known or potential infestations is crucial to managing leafy spurge. A combination of management methods in a long-term management plan is imperative. The management objective is to exhaust the root system and deplete the soil seed bank.

HERBICIDES

NOTE: The following are recommendations for herbicides that can be applied to range and pasturelands. Rates are approximate and based on equipment with an output of 30 gallons per acre. Please read label for exact rates. **Always read, understand, and follow the label directions. The herbicide label is the LAW!**

HERBICIDE	RATE	APPLICATION TIMING
Fosamine (Krenite S)	1.5 gal/acre or 6.5 oz/gal water	Spring only, during bloom to post-bloom stage. Add non-ionic surfactant @ 0.32oz/gal water or 1 qt/100 gal water.
Picloram (Tordon 22K *this is a Restricted Use Pesticide*)	1 qt./acre or 1 oz/gal water	Spring, just after full-bloom and/or fall. DO NOT apply near or under trees/shrubs or where soils have rapid permeability. Add non-ionic surfactant @ 0.32oz/gal water or 1qt/100 gal water.
Imazapic (Plateau)	12 oz/acre or 0.4 oz/gal water	Fall only treatment prior to hard freeze. Add a methylated seed oil surfactant (MSO) @ 0.32oz/gal water or 1 qt./100 gal water.
2,4-D Amine	2-3 qts/acre or 2-3 oz/gal water	Apply early spring and fall. Prevents seed formation only. Retreatment will be necessary. DO NOT apply when outside temperatures will exceed 85 degrees. Add non-ionic surfactant @ .32oz/gal water or 1qt/100 gal water.

Leafy spurge

Mediterranean sage

List A Species

Rangeland, pasture, and riparian site recommendations

1

Colorado Department of
Agriculture

305 Interlocken Pkwy
Broomfield, CO 80021

(303) 869-9030
weeds@state.co.us

Mediterranean sage Identification and Management



Identification and Impacts

Mediterranean sage (*Salvia aethiopis*) is a biennial that is an erect, coarse biennial or short-lived perennial, with a stout taproot. First year rosettes are blue-green, and are covered with woolly white hairs. Second year plants produce more leaves with a flowering stem. Leaves have a pungent odor when crushed. The flower stem can grow 2 to 3 feet tall and branch 2 to 3 feet wide resembling a candalabra. The stem breaks off in the fall and forms a tumbleweed dispersing thousands of seeds. Mature plants can produce 100,000 seeds each. The flowers are white to yellowish-white and appear in clusters.

Mediterranean sage is native to the Mediterranean region and northern Africa. Mediterranean sage invades primarily rangeland, but will easily invade riparian areas, forests, roadsides, and dry pastures. This invasive ornamental plant prefers south-facing slopes in loose, gravelly, well drained soils. Mediterranean sage initially invades disturbed sites, but quickly spreads to non-disturbed and natural sites. It adapts to a wide variety of environmental conditions and quickly displaces native vegetation. The plant is unpalatable to most grazing animals and is capable

of forming dense monocultures. The seed viability for Mediterranean sage is unknown. The site must be monitored for at least 10 years after the last flowering adult plants have been eliminated and treatments repeated when necessary.

The key to effective control of Mediterranean sage is preventing the establishment of plant communities through the use of sound land management practices. Maintain healthy pastures and rangeland and continually monitor your property for new infestations, especially near current known infestations since tumbleweed mobility of this plant can spread the seeds far and wide. Details on the back of this sheet can help to create a management plan compatible with your site ecology.

Mediterranean sage is designated as a "List A" species in the Colorado Noxious Weed Act. It is required to be eradicated wherever found in the State. For more information visit www.colorado.gov/ag/weeds and click on the Noxious Weed Management Program. Or call the State Weed Coordinator at the Colorado Department of Agriculture, Conservation Services Division, 303-239-4100.

Map of Mediterranean sage infestation.



All Photos © Kelly Uhing, Colorado Department of Agriculture, map by Crystal Anderws, Colorado Department of Agriculture.



Key ID Points

1. Leaves have a pungent odor when crushed.
2. Leaves are very hairy.
3. White to yellowish-white flower clusters.

Integrated Weed Management recommendations

List A Species

**CULTURAL**

Preventing overgrazing and promoting healthy plant communities is crucial. Disturbed, bare ground areas are prime habitat for weed invasions. Contact your local Natural Resource Conservation District for seed mix recommendations for your area.

**BIOLOGICAL**

Biocontrol agents are not included in the prescribed management plans by the State for List A Species. Eradication is the management objective of all List A's. For information on biocontrol in Colorado, please contact the Palisade Insectary of the Colorado Department of Agriculture at 970-464-7916.

**MECHANICAL**

Hand pull or shovel when soil is moist. Make certain to pull up all the roots or sever at least 2 to 3 inches of taproot with a shovel. Shake excess soil from specimens and turn over to dry out. Bag specimens carefully so as to not scatter seeds if flowering.

Integrated Weed Management:

Since Mediterranean sage reproduces solely by seed, it is imperative to prevent seeds from producing as well as depleting the soil seed bank. Combining mechanical and herbicide treatments to rosettes or bolting plants can be very effective. If flowering, mechanically remove plants and bag them. Survey properties on the perimeter of known infestations to detect new infestations early.

HERBICIDES

NOTE: The following are recommendations for herbicides that can be applied to range and pasturelands. Rates are approximate and based on equipment with an output of 30 gal/acre. Please read label for exact rates. **Always read, understand, and follow the label directions.** The herbicide label is the **LAW!**

Herbicide	Rate	Application Timing
Aminopyralid (Milestone)	7 oz. product/acre + 1% v/v methylated seed oil	Apply in spring during rosette to bolting (early flowering) growth stages.
Metsulfuron (Escort or Cimarron) + 2,4-D	1 oz. product/acre (metsulfuron) + 1 qt./acre (2,4-D) + 0.25% v/v non-ionic surfactant	Apply in spring during rosette to bolting (early flowering) growth stages.
Picloram (Tordon/Picloram 22K - Restricted use pesticide) + Chlorsulfuron (Telar)	1 qt. product/acre (Tordon) + 1 oz. product/acre (Telar) + 0.25% v/v non-ionic surfactant	Apply in spring during rosette to bolting (early flowering) growth stages. DO NOT use near trees, desirable shrubs, water, or high water table.
Additional herbicide recommendations for other species can be found at: www.colorado.gov/agconservation/CSUHerbicideRecommendations.pdf		

Mediterranean sage



List B Species

Rangeland, pasture, and riparian site recommendations

1

Musk thistle

Colorado Department of
Agriculture305 Interlocken Pkwy
Broomfield, CO 80021(303) 869-9030
weeds@state.co.us

Key ID Points

1. Broad, spine-tipped bracts located under the flower
2. Flowering heads are terminal, solitary, and usually nodding
3. Grows up to 6 feet tall

Musk thistle
Identification and Management

Identification and Impacts

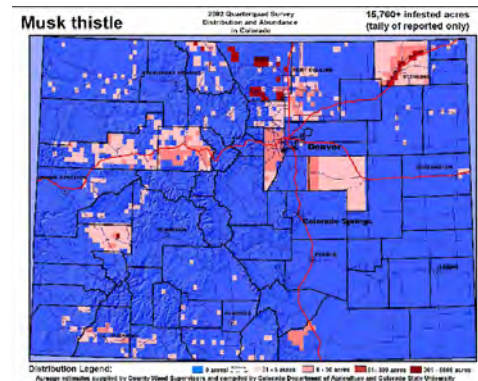
Musk thistle (*Carduus nutans*) is a non-native biennial forb that reproduces solely by seed. A biennial is a plant that completes its lifecycle within two years. During the first year of growth, musk thistle appears as a rosette in spring or fall. During the second year in mid to late spring, the stem bolts, flowers, sets seed, and the plant dies. Musk thistle produces many flower heads. The terminal, or tallest, shoots flower first, then lateral shoots develop in leaf axils. A robust plant may produce 100 or more flowering heads. A prolific seed producer, musk thistle can produce up to 20,000 seeds per plant, only one-third being viable. Because musk thistle reproduces solely from seed, the key for successful management is to prevent seed production.

Musk thistle can grow up to 6 feet tall. The leaves are spiny, waxy, and dark green in color with a light green midrib. The flowers are purple, large in size (1.5 to 3 inches in diameter), nodding, and terminal. The flowers are surrounded by numerous, lance-shaped, spine-tipped bracts. You can expect to see flowers from late May and June. Seed set usually occurs in June or July and effective management options will then become limited.

Habitats for Musk thistle include disturbed, overgrazed areas. Once a pasture is infested, the livestock carrying capacity for that area is significantly decreased. The plant may also occur on rangeland, roadsides, ditches, riparian areas, and trails.

The key to effective control of Musk thistle is to prevent the plant's seed production. Planting desirable grasses and forbs to out compete Musk thistle can also be effective. Dense Musk thistle stands can be treated by spot treatments of herbicides and by a persistent mechanical program. Details on the back of this sheet can help to create a management plan compatible with your site ecology.

Musk thistle is designated as a "List B" species in the Colorado Noxious Weed Act. It is required to be either eradicated, contained, or suppressed depending on the local infestations. For more information visit www.colorado.gov/ag/csd and click on the Noxious Weed Management Program. Or call the State Weed Coordinator at the Colorado Department of Agriculture, Conservation Services Division, 303-239-4100.



Carduus nutans

**CULTURAL**

Establishment of selected grasses can be an effective cultural control of Musk thistle. Contact your local Natural Resources Conservation Service for seed mix recommendations. Maintain healthy pastures and prevent bare spots caused by overgrazing. Bareground is prime habitat for weed invasions.

**BIOLOGICAL**

Livestock tend to avoid grazing on musk thistle, although horses and cattle have been known to eat the flowerheads. Biological control insects, such as the seed head weevil and the crown weevil are effective on large infestations. When used together, these insects provide fair to good control. Contact the Insectary, Colorado Department of Agriculture to get complete information at 970-464-7916. Or visit www.colorado.gov/ag/csd.

**MECHANICAL**

Any mechanical or physical method that severs the root below the soil surface will kill Musk thistle. Mowing or chopping is most effective when Musk thistle plants are at full-bloom. Be sure to properly dispose of the flowering cut plants since seeds can mature and become viable after the plant has been cut down.

Integrated Weed Management:

The key to managing Musk thistle is to prevent seed production. Dense Musk thistle stands can be treated by spot use of herbicides and by a persistent mechanical program. Due to the long seed viability of musk thistle, up to 10 years, control methods may have to be repeated for many years to completely eliminate an infestation.

Musk thistle

HERBICIDES

NOTE: The following are recommendations for herbicides that can be applied to range and pasturelands. Rates are approximate and based on equipment with an output of 30 gal/acre. Please read label for exact rates. **Always read, understand, and follow the label directions. The herbicide label is the LAW!**

HERBICIDE	RATE	APPLICATION TIMING
Picloram (Tordon 22K - *Restricted use chemical*)	1 pint/acre + 0.25% v/v non-ionic surfactant	Apply in spring to rosettes.
Aminopyralid (Milestone)	5 fl. oz./acre + 0.25% v/v non-ionic surfactant	Apply in spring rosette to early bolting growth stages or in fall to rosettes.
Metsulfuron (Escort XP)	1 oz. product/acre + 0.25% v/v non-ionic surfactant	Apply in spring from rosette through very early flower growth stages. (Can prevent viable seed formation if applied no later than the first viable flowers begin to open.)
Chlorsulfuron (Telar)	1 oz. product/acre + 0.25% v/v non-ionic surfactant	Apply in spring from rosette through very early flower growth stages. (Can prevent viable seed formation if applied no later than the first viable flowers begin to open.)

List A Species

Rangeland, pasture, and riparian site recommendations

1

Myrtle spurge

Identification and Management



vegetation and reducing wildlife forage. Alternatives to planting myrtle spurge include native plants such as sulphur flower (*Erigeron umbellatus*), Kinnikinnick (*artocostaphylos uvursi*), or creeping mahonia (*Mahonia repens*). The soil seed reserve of myrtle spurge is estimated to be eight years. The site must be monitored for at least nine years after the last flowering adult plants have been eliminated and treatments repeated when necessary.

Identification and Impacts

Myrtle spurge (*Euphorbia myrsinites*) is a low growing perennial with trailing fleshy stems. The leaves are fleshy, blue-green and alternate. Flowers are inconspicuous with yellow-green, petal-like bracts that appear from March to May. Myrtle spurge spreads by seed and plants are capable of projecting seeds up to 15 feet. The plant grows from a taproot, with new stems emerging in early spring and dying back in the winter. Plants can grow up to 8-12 inches high and 12-18 inches in width.

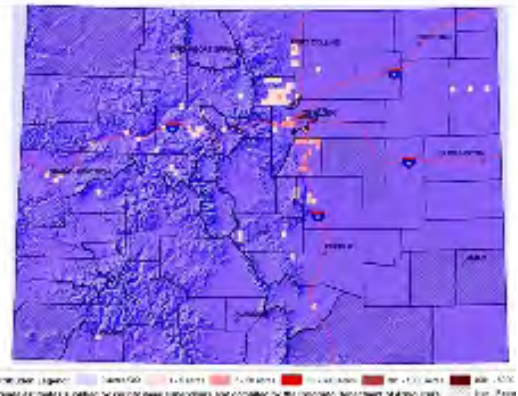
Myrtle spurge contains a toxic, milky sap which can cause severe skin irritations, including blistering. This plant is poisonous if ingested; causing nausea, vomiting and diarrhea. Wearing gloves, long sleeves, shoes, and eye protection is highly recommended when in contact with myrtle spurge, as all plant parts are considered poisonous.

Myrtle spurge is an invasive Ornamental that is native to Eurasia. It is popular with xeriscapes and rock gardens, preferring sunny to partly sunny areas and well drained soils. Myrtle spurge rapidly escapes gardens and invades sensitive ecosystems, out competing native

The key to effective control of myrtle spurge is to remove plants prior to seed set and to detect and remove new populations in natural areas early on. Small areas can be easily removed by mechanical means but should be done early to prevent triggering seed launching. Details on the back of this sheet can help to create a management plan compatible with your site ecology.

Myrtle spurge is designated as a "List A" species in the Colorado Noxious Weed Act. It is designated for statewide eradication. For more information visit www.colorado.gov/ag/weeds and click on the Noxious Weed Management Program. Or call the State Weed Coordinator at the Colorado Department of Agriculture, Conservation Services Division, 303-239-4100.

Map of myrtle spurge infestation.



Photos © Kelly Uhing, Colorado Department of Agriculture and (above) Crystal Andrews, Colorado Department of Agriculture.

Colorado Department of
Agriculture

305 Interlocken Pkwy
Broomfield, CO 80021

(303) 869-9030
weeds@state.co.us



Key ID Points

1. Low growing plant with blue-green, waxy leaves.
2. Flowers are yellow-green petal like bracts that appear from March to May.

Updated on:
7/2015

Myrtle spurge

Euphorbia myrsinites

Integrated Weed Management recommendations

List A Species

**CULTURAL**

Keeping desirable vegetation healthy and thick will help keep invaders out. Prevent the establishment of new infestations by minimizing disturbance and seed dispersal. Survey your land regularly to detect new invaders and eradicate any new populations quickly.

**BIOLOGICAL**

Biocontrol is not an approved method of control for State List A species. Eradication as the management objective for all List A species. For more information on insect biocontrol in Colorado, please contact the Palisade Insectary of the Colorado Department of Agriculture at 970-464-7916

**MECHANICAL**

Hand pull or dig when soil is moist. Make certain to pull all the roots and wear rubber gloves and eye protection to protect yourself from the toxic milky sap. Treatment follow up is important to check root fragment resprouts that will occur when the tap root is severed too shallow.

Integrated Weed Management:

Since Myrtle spurge spreads mainly by seed, it is very important to prevent seed production and deplete the seed bank. Remove mature plants prior to setting seed and seedlings whenever present.

Populations can be managed mechanically and by spot treatment of herbicides. It is important to be persistent with follow up treatments for many years.

Myrtle spurge

HERBICIDES

NOTE: The following are recommendations for herbicides that can be applied to range and pasturelands. Rates are approximate and based on equipment with an output of 30 gal/acre. Please read label for exact rates. **Always read, understand, and follow the label directions. The herbicide label is the LAW!**

Herbicide	Rate	Application Timing
2,4-D ester	2 qt./acre + 1% v/v methylated seed oil	Use a 2,4-D ester formulation that has a 4.0 lbs. active ingredient/acre. Apply during spring or during fall regrowth.
Dicamba + 2,4-D	1 pint/acre dicamba + 2-3 pints/acre 2,4-D (amine or ester)	Use a 2,4-D formulation that has a 4 lbs. active ingredient/gallon. Apply during spring or during fall regrowth.
Picloram (Tordon/Picloram 22K - Restricted use pesticide) + 2,4-D	20 oz./acre + 2-3 pints/acre 2,4-D (amine or ester)	Apply at flowering growth stage during spring or to fall regrowth. DO NOT use near trees, desirable shrubs, water, or high water table.
Additional herbicide recommendations for other species can be found at: www.colorado.gov/agconservation/CSUHerbicideRecommendations.pdf		

List B Species

Rangeland, pasture, and riparian site recommendations

1

Perennial pepperweed

Colorado Department of
Agriculture

305 Interlocken Pkwy
Broomfield, CO 80021

(303) 869-9030
weeds@state.co.us



Key ID Points

1. White flowers in dense round clusters at branch tips.
2. Leaves are waxy with a white midrib.

Perennial pepperweed Identification and Management



Identification and Impacts

Perennial pepperweed (*Lepidium latifolium*) is an extremely invasive perennial forb introduced from Europe and Asia in 1900 as a containment in sugar beet seed. Pepperweed reproduces both by seed and vegetatively by roots and shoots. Root fragments as small as 0.5 inch can grow into new plants. A serious threat, pepperweed alters ecosystems by acting as a "salt pump" absorbing salts from deep in the soil. The plant then excretes the salt through the leaves and deposits it on the surface soil. Since most desirable plants do not tolerate high saline concentrated soils, the entire plant composition and diversity of the area changes.

Growing 1 to 5 feet high, pepperweed has tiny white flowers. The flowers have four spoon-shaped petals in dense, rounded clusters on branch tips of erect stems. Stems emerge from deep, thick, woody root stocks that can penetrate 10 feet into the soil. Leaves of the mature plant are alternate, and lance or oblong in shape with serrated edges that are slightly wavy. They are glabrous (not hairy) and green to gray-green in color, with a distinctive white midrib. Upper leaves are smaller than basal leaves and have no stalks.

Perennial pepperweed invades a wide variety of habitats, from intermountain, mountainous areas and marshes. It is frequently found in riparian areas, wetlands, marshes, irrigation ditches, canals,

and floodplains. If introduced, it can also invade roadsides, hay and alfalfa fields and rangeland. It readily invades disturbed and bareground areas. It can thrive in either low or high-saline soils. Large monocultures and dense litter layers prevent native plants from regenerating. Pepperweed displaces native plants and wildlife habitats, reduces food quality for wildlife and reduces agricultural and pasture production.

Perennial pepperweed rarely produces seedlings in the field, even with extensive seed crops. Research is underway, but the lack of seedlings may be due to seeds rapidly losing viability in the field (but not in the laboratory). Reproduction is primarily from deep, perennial roots and root pieces which break off and sprout new plants. However, preventing seed production is still recommended until further research is done.

The key to effective control of Perennial pepperweed is preventing establishment of large populations. Early detection and removal of plants if found, is the key to prevention. Planting desirable and competing grasses and forbs can aid in limiting the spread of Perennial pepperweed. Herbicide treatments are a good option if used during the bud to flowering stage of the plant. Once established, containment is key. Details on the back of this sheet can help to create a management plan compatible with your site ecology.

Perennial pepperweed is designated as a "List B" species in the Colorado Noxious Weed Act. It is required to be either eradicated, contained, or suppressed depending on the local infestations. For more information visit www.colorado.gov/ag/csd and click on the Noxious Weed Management Program. Or call the State Weed Coordinator at the Colorado Department of Agriculture, Conservation Services Division, 303-239-4100.

Photos courtesy of Kelly Uhing, Colorado Department of Agriculture.

Lepidium latifolium

Integrated Weed Management recommendations

List B Species

**CULTURAL**

Prolonged spring flooding of new growth will kill pepperweed. Grazing is not recommended because the plant may be toxic. Reestablishing the native or desired plants can take years, so repeat plantings must be repeated, but it can aid in controlling populations. Contact your local Natural Resources Conservation Service for seed mix recommendations.

**BIOLOGICAL**

Biological control is not a viable option because 11 other species of native Lepidium are on the Endangered species list, and the risk to these species as well as agricultural species is too great. For more information, contact the Palisade Insectary of the Colorado Department of Agriculture at 970-464-7916.

**MECHANICAL**

Due to the deep, brittle root, most mechanical methods are not recommended, and can actually propagate, spread and increase the density of pepperweed. Hand pulling can also bring seeds to the soil surface, and spread pieces of root, which will sprout. However, spring mowing combined with chemical treatments can be effective.

Integrated Weed Management:

Because of the deep roots and persistence of pepperweed, it is critical to combine repeated herbicide application with monitoring and revegetation of the area. Control of Perennial pepperweed can be difficult, so prevention is the best option. Early detection, eradication and containment of small populations and their source are vital.

HERBICIDES

NOTE: The following are recommendations for herbicides that can be applied to specific areas. Rates are approximate and based on equipment with an output of 30 gal./acre. **Always read, understand, and follow the label directions. The herbicide label is the LAW!**

HERBICIDE	RATE	APPLICATION TIMING
Chlorsulfuron (Telar)	1 oz product/ac. + 0.25 v/v non-ionic surfactant	Apply when plant is in bolting to early flower growth stages. (Early Spring to Early Summer)
Metsulfuron (Escort XP)	1 oz product/ac. + 0.25 v/v non-ionic surfactant	Apply when plant is in bolting growth stage. (Spring)
Imazapyr (Plateau)	12 fl oz/ac. + 2 pt/ac. methylated seed oil	Apply when plant is in flower to late flower growth stages. (Early Summer to Mid Summer)

NOTE: Herbicides, when applied at the flower bud stage, are extremely effective to control pepperweed. Repeat applications for up to five years. However, the waxy leaf surface and the dense growth of this weed can make it difficult to obtain adequate coverage with the herbicide, so apply the chemical carefully and thoroughly for effective control.

Top photo, © Kelly Uhing, Colorado Department of Agriculture. *Calophasia lunula* larva photo © Bob Richard, USDA APHIS, Invasive.org. Root system, Nature Conservancy.

Perennial pepperweed



Perennial sowthistle

List C Species

Rangeland, pasture, and riparian site recommendations

1

Colorado Department of
Agriculture

305 Interlocken Pkwy
Broomfield, CO 80021

(303) 869-9030
weeds@state.co.us

Identification and Management



Perennial sowthistle produces by seeds and the rhizomatous root systems. Plants overwinter and begin to appear in early spring, seeds will germinate at this same time. Plants are palatable to grazing animals and can assist in control.

The key to effective control of Perennial sowthistle preventing the establishment of the plant populations. Reducing the production of seeds can assist in the control of Perennial sowthistle. Mechanical, chemical and grazing controls will also assist in control plant populations. Details on the back of this sheet can help to create a management plan compatible with your site ecology.

Identification and Impacts

Perennial sowthistle (*Sonchus arvensis*) is a perennial forb native to Eurasia. The plants erect stems can grow 2 to 5 feet tall, they are hollow, and have a milky juice that appears when the plant is injured. The plant branches near the top of the stem and will exhibit a showy yellow disc flower about 1 1/2 inches in size, and resembles a dandelion. The flowers are borne out of bracts that are sticky and slightly hairy. Seeds are produced out of the flower bract and are red to brown in color, and have ribs that run lengthwise on the seed. The seeds are connected to a silky, parachute-like tuft of white hair and travel very easily in the wind. Leaves of the plant are alternate and clasping to the stem. The leaves vary in size generally getting smaller the higher up on the stem. Leaves are deeply lobed to whole and have prickly margins. Perennial sowthistle grows from a deep-taproot that exhibits horizontal rhizome-like roots that will produce other stems.

Perennial sowthistle is designated as a "List C" species on the Colorado Noxious Weed Act. It is required to be either eradicated, contained, or suppressed depending on the local jurisdictions managing this species. For more information, visit www.colorado.gov/ag/weeds or call the State Weed Coordinator at the Colorado Department of Agriculture, Conservation Services Division, 303-239-4100.



Key ID Points

Habitats for Perennial sowthistle include roadsides, fertile waste areas, cultivated fields, gardens, woods, lawns, ditches, and rivers.



Photos © From Bottom left; Steve Dewey, Utah State University; (Next 2) Ohio Weed Lab State Archive, Ohio State University; John Cardina, Ohio State University; Michael Rasy, University of Alaska; (All Bugwood.org)

Sonchus arvensis

**CULTURAL**

Maintaining healthy plant populations and minimizing disturbance is a good way prevent weed populations. For specific seed recommendations contact your local Natural Resources Conservation Services for seed mixes.

**BIOLOGICAL**

Currently there is not any biocontrol available for Common burdock. Biocontrol takes many years of research and development. For more information, contact the Palisade Insectary of the Colorado Department of Agriculture at 970-464-7916.

**MECHANICAL**

Tilling plant populations where possible can assist with controlling Perennial sowthistle. Smaller root fragments have a harder time producing viable rosettes. The optimum time to treat mechanically is in the leaf rosette stage. Mowing can assist with control in depleting the root reserves for the plants.

Integrated Weed Management:

Combining mechanical and chemical control methods can assist with controlling Perennial sowthistle. Plant are palatable to grazing animals, this can also assist in controlling plant populations.

HERBICIDES

NOTE: The following are recommendations for herbicides that can be applied to range and pasturelands. Rates are approximate and based on equipment with an output of 30 gal/acre. Please read label for exact rates. Always read, understand, and follow the label directions. The herbicide label is the LAW!

HERBICIDE	RATE	APPLICATION TIMING
2 4-D + Dicamba (Rangestar)	1 to 2 pt/acre	Apply to rosettes or early bolting stage. Add non-ionic surfactant @ 0.32 oz/gal of water or 1 pt/100 gal of water.
Aminopyralid (Milestone)	3 to 5 oz/acre	Apply to rosettes or early growth under favorable growing conditions. Add non-ionic surfactant @ 0.32 oz/gal of water or 1 pt/100 gal of water.
Clopyralid (Stinger)	5 to 11 oz/acre	Apply to rosette to bud stages of plant growth. Add non-ionic surfactant @ 0.32 oz/gal of water or 1 pt/100 gal of water.
Picloram (Tordon 22K *this is a restricted use herbicide*)	4 pt/acre	Apply to rosette to early bolting stage. Add non-ionic surfactant @ 0.32 oz/gal of water or 1 pt/100 gal of water.

Photos © Top to Bottom; Theodore Webster, USDA Agricultural Research Service, Bugwood.org; Whitney Cranshaw, Colorado State University, Bugwood.org; Kelly Uhing, Colorado Department of Agriculture

Perennial sowthistle



Plumeless thistle

Colorado Department of
Agriculture

305 Interlocken Pkwy
Broomfield, CO 80021

(303) 869-9030
weeds@state.co.us



Key ID Points

1. Flower heads cluster 2-5 and are purple to dark red in color.
2. Leaves are alternate, stalk-less and hairy underneath.

Plumeless thistle Identification and Management



Identification and Impacts

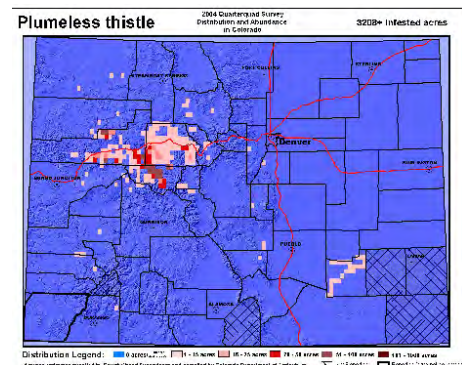
Plumeless thistle (*Carduus acanthoides*) is a winter annual or biennial that is native to Europe and Asia. Plumeless thistle rosettes have wavy leaves with yellow spines along the white-colored leaf margins. The stems are covered with leaf-like, winged spines that extend up to the flowering heads. The flower heads, in clusters of 2 to 5, are alone at the end of the branches. They are purple to dark red in color and are 1/2 to 1 inch in diameter. Leaves are alternate, stalk-less, hairy underneath and blend into the stem. Mature plants can grow taller than 5 feet and can produce upwards of 9,000 seeds.

Habitats for Plumeless thistle include pastures, fields, disturbed lands, logged-over areas, river valleys, along roadsides and in native grasslands. Plumeless thistle out competes native species and forage crops. It is one of the most aggressive thistles, due to its high seed production. Plumeless thistle is unpalatable to livestock and it may accumulate nitrates.

Plants over winter and grow from seeds and rosettes. The seed viability for Plumeless thistle is unknown. The site must be monitored for at least 10 years after the last flowering adult plants have been eliminated and treatments repeated when necessary.

The key to effective control of Plumeless thistle is very similar to Musk thistle. Preventing Plumeless thistle seed production and planting desirable grasses and forbs to out compete plumeless thistle is effective. An integrated weed management approach is an effective tool when dealing with plumeless thistle; using herbicide, biological and cultural control methods. Details on the back of this sheet can help to create a management plan compatible with your site ecology.

Plumeless thistle is designated as a "List B" species in the Colorado Noxious Weed Act. It is required to be either eradicated, contained, or suppressed depending on the local infestations. For more information visit www.colorado.gov/ag/csd and click on the Noxious Weed Management Program. Or call the State Weed Coordinator at the Colorado Department of Agriculture, Conservation Services Division, 303-239-4100.



Photos © Map above: Crystal Andrews, Colorado Department of Agriculture; All other photos: Kelly Uhing, Colorado Department of Agriculture.

Carduus acanthoides

**CULTURAL**

Establishment of selected grasses can be an effective cultural control of Musk thistle. Contact your local Natural Resources Conservation Service for seed mix recommendations. Maintain healthy pastures and prevent bare spots caused by overgrazing. Bareground is prime habitat for weed invasions.

**BIOLOGICAL**

Biological control insects, such as the seed head weevil and the crown weevil are effective on large infestations. When used together, these insects provide fair to good control. These insects have been known to threaten native thistle populations. Contact the Insectary of Colorado Department of Agriculture to get complete information at 970-464-7916. Or visit www.colorado.gov/ag/csd.

**MECHANICAL**

Any mechanical or physical method that severs the root below the soil surface will kill Plumeless thistle. Mowing or chopping is most effective when Plumeless thistle plants are at full bloom. Be sure to properly dispose of the flowering cut plants since seeds can mature and become viable after the plant has been cut down.

Integrated Weed Management:

The key to managing Plumeless thistle is to prevent seed production. Dense Plumeless thistle stands can be treated by spot use of herbicide programs. Due to the unknown seed viability of plumeless thistle, monitoring up to 10 years, and repeating control methods may need to occur for many years to completely eliminate an infestation.

Plumeless thistle

HERBICIDES

NOTE: The following are recommendations for herbicides that can be applied to range and pasturelands. Rates are approximate and based on equipment with an output of 30 gal/acre. Please read label for exact rates. **Always read, understand, and follow the label directions. The herbicide label is the LAW!**

HERBICIDE	RATE	APPLICATION TIMING
Aminopyralid (Milestone)	5 fl oz product/acre	Apply in spring to early summer rosette to bolting growth stages or in the fall.
Clopyralid (Transline)	0.67 pint product/acre	Apply when plants are in the rosette growth stage. (Spring or Fall rosettes)
Clopyralid + 2,4-D (Curtail)	2 quarts product/acre	Apply when plants are in the rosette growth stage. (Spring or Fall rosettes)
Picloram (Tordon - *restricted use herbicide*)	1-2 pints product/acre	Apply when plants are in the rosette growth stage. (Spring or Fall rosettes)
2, 4-D	1 quart/acre	Apply when plants are in the rosette growth stage. (Spring or Fall rosettes)

Photos Top to bottom © Loke T. Kok, Virginia Polytechnic Institute and State University, Bugwood.org; Richard Old, XID Services, Inc., Bugwood.org; and Kelly Uhing, Colorado Department of Agriculture.

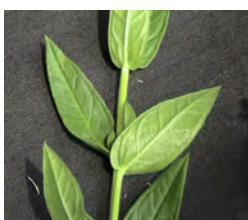
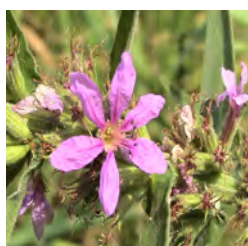


List A Species

Rangeland, pasture, and riparian site recommendations

1

Purple loosestrife

Colorado Department of
Agriculture305 Interlocken Pkwy
Broomfield, CO 80021(303) 869-9030
weeds@state.co.us

Key ID Points

1. Showy rose-purple flowers bloom in long vertical racemes.
2. Lance-shaped leaves have smooth edges.

Purple loosestrife Identification and Management



Identification and Impacts

Purple loosestrife (*Lythrum salicaria*) is a non-native, tap-rooted, perennial forb. It is native to Europe and was introduced to North America as an ornamental plant for gardens. It has escaped into natural areas such as streambanks and shallow ponds. Purple loosestrife reproduces primarily by seed. A single, mature plant can produce up to three million seeds per year. These seeds can remain viable in the soil for 5 to 20 years. Pieces of roots or stems also can produce new plants. Purple loosestrife produces multiple four-sided stems that can grow two to eight feet tall. Leaves are two to five inches long, lance-shaped and whorled on the stems. Flowers are tightly grouped in long, vertical heads; they bloom from the bottom up. They are reddish-purple in color, about one inch long, and have five to seven petals. Flowers appear from late June through September.

Purple loosestrife can be found along riverbanks, ditches, and wet meadows throughout the state. Infestations rapidly replace native vegetation, can impede water flow in canals and ditches, and have little wildlife habitat value. Infested wetlands eventually become a monoculture of loosestrife.

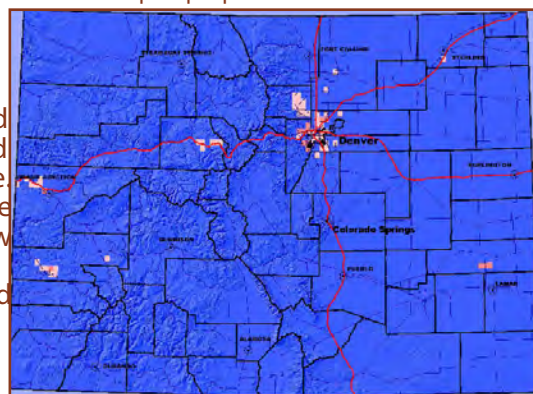
If purple loosestrife is growing in your garden, remove plants

immediately and consider a substitute. There are many planting alternatives that are better suited to Colorado and beneficial to wildlife. Alternatives include spotted gayfeather, Rocky Mountain Penstemon, beebalm, purple coneflower, and Colorado Columbine. For more information refer to Colorado Native Plant Society's website, www.conps.org.

The key to effective control of purple loosestrife is early detection when infestations are small. It is fairly easy to control small numbers of loosestrife plants when the seed bank in the soil is low. Eradicating large populations is much more difficult. Persistent management and monitoring of site is a long-term program to ensure eradication. Small loosestrife infestations should be eradicated by hand-pulling/cutting in combination with herbicide application. Details on the back of this sheet can help to create a management plan compatible with your site ecology.

Purple loosestrife is designated as "List A" species on the Colorado Noxious Weed Act. It is required to be eradicated wherever found in the State. For more information visit www.colorado.gov/ag/csd and click on the Noxious Weed Program link or call the State Weed Coordinator at the Colorado Department of Agriculture, Conservation Services Division, 303-239-4100.

Map of purple loosestrife infestation.



All photos © Kelly Uhing. Infestation map above, Crystal Andrews, Colorado Department of Agriculture.

Lythrum salicaria

Integrated Weed Management recommendations

List A Species

**CULTURAL**

Prevent the establishment of new infestations by minimizing disturbance and seed dispersal.

**BIOLOGICAL**

Biocontrol agents are not included in the prescribed management plans by the State for List A Species. Eradication is the management objective of all List A's. For more information on biocontrol in Colorado, please contact the Palisade Insectary of the Colorado Department of Agriculture at 970-464-7916.

**MECHANICAL**

Hand removal of isolated individuals can be effective on small infestations. Hand removal should be performed prior to seed set. It is important to remove the entire rootstalk of the plant to avoid regrowth from root fragments. During the flowering stage, flowerheads must be cut and disposed of properly before a herbicide is applied. This will prevent or reduce seed production.

Integrated Weed Management:

Since purple loosestrife has been identified in Colorado, preventing the populations from spreading is important in management of the weed. Prevent new seeds from being added to the seed bank by managing purple loosestrife before it flowers or by clipping and disposing of the flowerheads prior to seed set and using herbicides to control plants.

Follow up control efforts the same growing season and for several years afterwards. Maintain a healthy cover of perennial plants.

HERBICIDES

The following are recommendations for herbicides that can be applied to range and pasture lands. Always read, understand, and follow the label directions. Rates are approximate and based on equipment with an output of 30 gallons per acre. Please read label for exact rates. The herbicide label is the LAW!

Herbicide	Rate	Application Timing
Triclopyr (Garlon 3A)	6-8 qt./acre OR 1.3-1.9 oz./gal water + 0.25% v/v non-ionic surfactant	Apply in summer. If plants are flowering, cut and properly dispose of flowerheads before applying Garlon 3A.
Glyphosate (Rodeo*, Habitat* - aquatic safe)	4 qt./acre OR 1.3-1.9 oz./gal water + 0.25% v/v non-ionic surfactant	Apply in summer during the flowering stage. Cut and properly dispose of flowerheads before applying Rodeo.
Aquatic 2,4-D Amine	1-2 qt./acre or 1.3-2.5 oz./gal water + 0.25% v/v non-ionic surfactant	Early spring - prevents seed formation only. Retreatment will be necessary. DO NOT apply when outside temperatures will exceed 85 degrees.

Note: *These herbicide products are nonselective and will kill any vegetation contacted.

Additional herbicide recommendations for other species can be found at:
www.colorado.gov/agconservation/CSUHerbicideRecommendations.pdf

Purple loosestrife

Russian Knapweed Identification and Management

List B

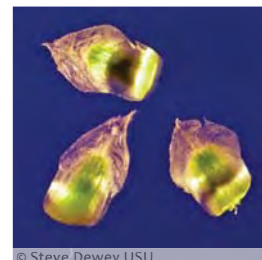


that can grow to become independent plants. Once rosettes emerge in the spring, remaining root buds slough-off until they develop again in late summer. Additionally, root fragments can develop into new plants.

Russian knapweed is allelopathic, which means it contains a toxic substance that inhibits the growth of competing plants. This weed may also be toxic to horses resulting in serious injury or possibly death of the animal. Russian knapweed displaces native vegetation and reduces forage values on range and pasturelands.

Habitat for Russian knapweed includes roadsides, ditch banks, riparian zones, pastures, rangeland, saline soils, clear cuts, and cropland. It typically invades degraded areas and sites with full sun.

The most effective method of control for Russian knapweed is to prevent its establishment through proper land management. Maintain healthy pastures and rangeland and continually monitor your property for new infestations. If Russian knapweed is already established, using an integrated weed management approach proves to be effective. Russian knapweed can be managed with herbicides or biocontrol insects, but long-term control must include planting competitive plant species to occupy bare ground once infested by the weed. Details on the back of this sheet can help to create a management plan compatible with your site ecology.



© Steve Dewey USU



Black, scaly root



Russian knapweed

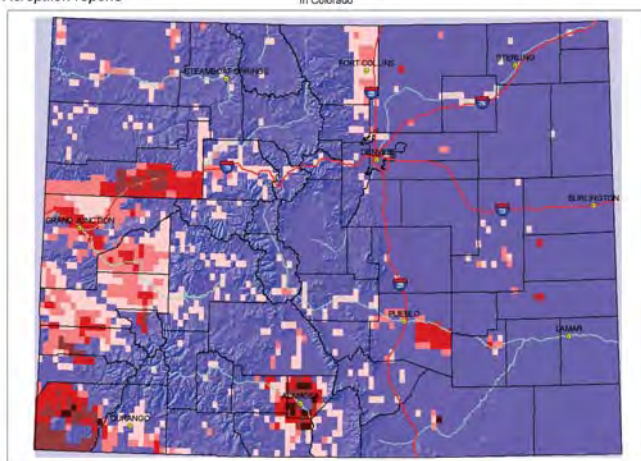
Acroptilon repens

2008 Quarter Quad Survey

Russian knapweed
Acroptilon repens

2008 Quarterquad Survey
Distribution and Abundance
in Colorado

132,466+ Infested Acres



Distribution Legend: 0 ACRES/QUAD 1-5 6-50 51-300 301-1000 1001-5000
Acreage estimates supplied by county weed supervisors and compiled by the Colorado Department of Agriculture

Russian knapweed is designated as a "List B" species in the Colorado Noxious Weed Act. It is required to be either eliminated, contained, or suppressed depending on the local infestations. For more information, visit www.colorado.gov/ag/weeds and click on the Noxious Weed Program link or call the State Weed Coordinator at the Colorado Department of Agriculture, Conservation Services Division, 303-869-9030.

Key ID Points

1. Distinguished from other knapweeds by the flower's smooth, papery bracts.
2. Roots are brown to black with scaly appearance.
3. Rosettes and lower leaves deeply lobed.
4. Upper leaves are smaller, smooth margined, and not lobed.

Integrated Weed Management Recommendations

The most effective control for Russian knapweed is to prevent its establishment through proper land management. An integrated weed management approach can be effective when dealing with Russian knapweed. It can be managed with herbicides or insects, but long-term control must include planting competitive plant species to occupy bare ground once infested by the weed.



CULTURAL

Maintain healthy pastures and prevent bare spots caused by overgrazing. Bare ground is prime habitat for weed invasions. Establishing sod-forming grasses or vegetation with dense shade can be an effective cultural control of Russian knapweed. Contact your local Natural Resources Conservation Service for seed mix recommendations.

BIOLOGICAL

The gall midge, *Jaapiella ivannikovi*, is a fly that lays eggs in the shoot tips of Russian knapweed. It forms galls that reduce flowering, seed production, and stunts the plants' growth. This biocontrol will stress the stand of Russian knapweed but will not likely eliminate it. The Colorado Department of Agriculture - Palisade Insectary, 970-464-7916, is currently establishing this biocontrol. It is not yet available to the public.

MECHANICAL

Mowing several times before the plants bolt stresses Russian knapweed and forces it to use nutrient reserves stored in the root system. However, mowing alone will not eliminate the infestation and it can stimulate shoot sprouting the following year. Mowing combined with a fall herbicide application will enhance control. Tilling and disking can create root fragments that can sprout. However, repeated deep tillage (1 foot) over 3 years can kill much of the root system.

CHEMICAL

The following are recommendations for herbicides that can be applied to range and pasturelands. Always read, understand, and follow the label directions. Please read label for exact rates. The herbicide label is the LAW!

HERBICIDE	RATE	APPLICATION TIMING
Aminopyralid (Milestone)	5-7 oz/acre	Apply in the fall when above-ground stems die back and root buds are highly susceptible; can also apply in the bud to senescence stages. Add non-ionic surfactant @ 0.32 oz/gal water or 1 qt/100 gal water.
Aminocyclopyrachlor + chlorsulfuron (Perspective)	4.75 to 8 oz product/A + adjuvant	Apply in the fall when above-ground stems die back and root buds are highly susceptible; can also apply in the bud to senescence stages. Important: Applications greater than 5.5 oz product/A exceeds the threshold for selectivity. DO NOT treat in the root zone of desirable trees and shrubs.
Picloram (Tordon 22K *this is a Restricted Use Pesticide*)	1 qt/acre or 1 oz/gal water	Apply in the fall when above-ground stems die back and root buds are highly susceptible; can also apply in spring to bud/early flower stage and/or fall rosette. Add non-ionic surfactant @ 0.32 oz/gal water or 1 qt/100 gal water.

Russian knapweed

Acroptilon repens

Russian Olive Identification and Management

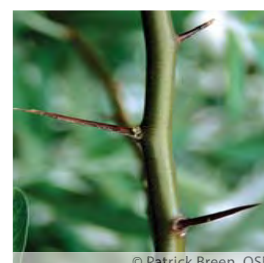
List B



reddish, and have surfaces coated with gray and scaly pubescence, becoming smooth.

Once thought to be a beneficial windbreak tree, it since has been deemed detrimental to the environment. Russian olive can grow in a variety of soil and moisture conditions, but prefers open, moist, riparian zones. It is shade tolerant and can be found along streams, floodplains, fields and open areas up to approximately 8,000 feet in elevation. Russian-olive can outcompete native plants, interfere with natural plant succession and nutrient cycling, and tax water reserves. Because Russian olive is capable of fixing nitrogen in its roots, it can grow on bare, mineral substrates and dominate riparian vegetation. Although Russian olive provides a plentiful source of edible fruits for birds, ecologists have found that bird species richness is actually higher in riparian areas dominated by native vegetation.

The key to effective control of Russian olive is preventing establishment of the trees or shrubs. If plants are already present, control options include cut-stump treatments and mechanical mowing. These treatments depend on size and location of the plant. Details on the back of this sheet can help you create a management plan compatible with your site ecology.

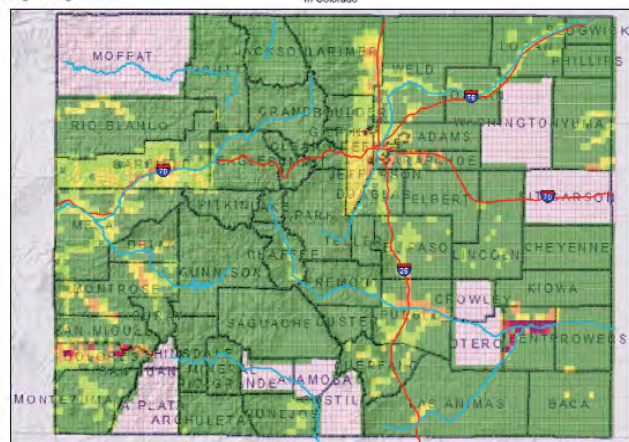


Russian olive
Elaeagnus angustifolia

Russian Olive
Elaeagnus angustifolia

2013 Quarterquad Survey
Distribution and Abundance
In Colorado

64,150+ Infested Acres



Distribution Legend: 0 acres 1-10 acres 11-50 acres 51-300 acres 301-999 acres >1000 acres Not Reported

Acres estimates supplied by County Weed Coordinators and compiled by the Colorado Department of Agriculture.

Russian olive is redesignated as a “List B” species in the Colorado Noxious Weed Act. It is required to be either eradicated, contained, or suppressed depending on the local infestations. For more information visit www.colorado.gov/ag/weeds and click on the Noxious Weed Management Program. Or call the State Weed Coordinator at the Colorado Department of Agriculture, Conservation Services Division, 303-239-4100.

Key ID Points

1. Leaves are silvery white.
2. Branches have 1 to 2 inch thorns.
3. Yellow-red fruits on mature plants.
4. Mature trees have shedding, reddish-brown bark.

List B

Integrated Weed Management Recommendations

Integrated weed management offers the most effective combination of control efforts through the “cut stump” treatment. Trees are cut down with a hatchet or chainsaw, then immediately treated with an approved herbicide on the surface of the cut stump. The most effective timing is late summer/early fall for herbicide transfer into the roots.



© John Randall, TNC



© James Miller, USFS



© Chris Ness, Adams County



© Scott Peterson, USDA

CULTURAL

Replace Russian olives with native trees. Prevent establishment of new trees by removing seedlings and saplings before they mature. Contact your local Natural Resources Conservation Service for recommendations of other possible trees or shrubs.

BIOLOGICAL

Tubercularia canker is an unapproved biocontrol. However, it overwinters on infected stems and spreads via rain-splash, animals, or pruning implements to open wounds in the bark. Infected tissue becomes discolored or sunken. Entire stems may be girdled and killed, and the disease can deform or kill stressed plants over time.

MECHANICAL

Saplings can be pulled with a weed-wrench or cut with brush-cutters. Trees can be girdled or cut with chainsaws. However, stump sprouting commonly occurs after cutting down the tree; and stump excavation without removing all parts of the roots can result in root sprouting. Treating cut-stumps with an herbicide can eliminate sprouting. Stump burning is practical when conditions support a long, hot fire and most effective in summer or early fall. Saplings are most sensitive to mechanical treatment.

CHEMICAL

The table below includes recommendations for herbicides that can be applied to range and pasturelands. Always read, understand, and follow the label directions. The herbicide label is the LAW!

HERBICIDE	RATE	APPLICATION TIMING
Triclopyr (Garlon 4, Remedy)	Undiluted (100% solution)	Apply to the cambial layer of the tree immediately after the cut-stump treatment.
Imazapyr + Water (Habitat + Water or Arsenal + Water)	Diluted by mixing 8 to 12 fl. oz / 1 gallon of water	Apply to the cambial layer of the tree immediately after the cut-stump treatment.
Imazapyr (Habitat or Arsenal)	4 to 6 pt./acre	Broadcast spray/spraying individual trees; low or high volume spray.



Colorado Department of Agriculture - Conservation Services

305 Interlocken Parkway

Broomfield, CO 80021

303-869-9030

www.colorado.gov/ag/weeds



Saltcedar

List B species

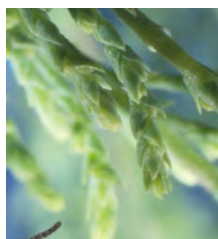
Rangeland, pasture, and riparian site recommendations

1

Colorado Department of
Agriculture

305 Interlocken Pkwy
Broomfield, CO 80021

(303) 869-9030
weeds@state.co.us



Key ID Points

1. Saltcedar is a tall shrub or small tree that has white to pink flowers in clusters called racemes.
2. Leaves are small and scaly.

Saltcedar Identification and Management



Identification and Impacts

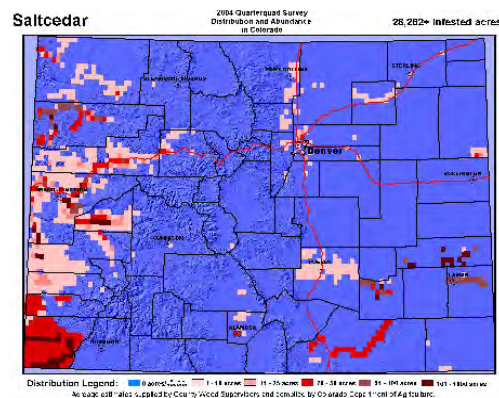
Saltcedar, or tamarisk (*Tamarix spp.*), is a non-native deciduous evergreen shrub or small tree that grows from 5 to 20 feet tall. The bark on saplings and stems is reddish-brown. The leaves are small, scale-like and bluish-green in color. Tiny pink to white flowers have five petals and grow on slender racemes. Saltcedar reproduces by seeds as well as vegetatively. A mature plant can produce up to 600,000 seeds per year. Seeds are viable for up to 45 days under ideal conditions. Saltcedar buds break dormancy in February or March. Flowering occurs anytime between April and August. Ideal conditions for saltcedar seedling survival are saturated soil during the first few weeks of life, a high water table, and open sunny ground with little competition from other plants.

Saltcedar was introduced from central Asia, northern Africa, and southern Europe for ornamental purposes and for stream bank stabilization. It is now widespread in the United States. Saltcedar crowds out native stands of riparian and wetland vegetation. Saltcedar increases salinity of surface soil, rendering the soil inhospitable to native plant species. Saltcedar can be

found along floodplains, riverbanks, streambanks, marshes, and irrigation ditches. Its heavy use of water has contributed to the intensity of the drought.

The most effective method of control for saltcedar is to prevent its establishment through proper land management. Monitor susceptible areas for new infestations. An integrated weed management approach has proven to be an effective control when dealing with saltcedar. Details on the back of this sheet can help to create a management plan compatible with your site ecology.

Saltcedar is designated as a "List B" species on the Colorado Noxious Weed Act. It is required to be either eradicated, contained, or suppressed depending on the local infestations. For more information, please visit www.colorado.gov/ag/csd and click on the Noxious Weed Program link. Or call the State Weed Coordinator of the Colorado Department of Agriculture, Conservation Services Division, 303-239-4100.



Plant and flower photos © Kelly Uhing. Leaf photo © USDA Aphis PPQ. Infestation photo above, © Steve Dewey, Invasive.org. Tamarisk branch © Stevens County, WA Noxious Weed Control Board

Tamarix spp.

Integrated Weed Management recommendations

List B Species

**CULTURAL**

After a saltcedar infestation is managed, revegetation is necessary in order to protect the soil resource and reduce the threat of reinvasion. Seeded grasses, willow stakes, and cottonwood cuttings can reduce the chances of saltcedar reinvading managed sites.

**BIOLOGICAL**

The saltcedar leaf beetle (*Diorhabda elongata*) larvae and adults feed on foliage. This causes stem dieback and potential death of the plant if defoliation is consistent. The leaf beetle should be available for limited distribution. For more information, contact the Palisade Insectary of the Colorado Department of Agriculture, 970-464-7916.

**MECHANICAL**

A bulldozer or prescribed fire can be used to open up large stands of saltcedar. These methods must be followed up with a herbicide treatment of the resprouts when they are 1 to 2 meters tall. Chainsaws, or loppers for smaller plants, are effective for cut-stump treatments to smaller infestations or in environmentally-sensitive management areas.

Integrated Weed Management:

Select the appropriate control method based on the size of the area and other environmental or cultural considerations. Re-seed controlled areas with desirable species to protect the soil resource and to prevent or slow saltcedar reinvasion. Follow up control efforts the same growing season and for several years afterwards.

Saltcedar

HERBICIDES: The following are recommendations for herbicides that can be applied to range and pasturelands. Rates are approximate and based on hand-held equipment with an output of 30 gallons per acre. Always read, understand, and follow the label directions. **The herbicide label is the LAW!**

HERBICIDE	RATE	APPLICATION TIMING
Triclopyr (Garlon 4 *approved aquatic label*)	Foliar - 2-4 qts./acre Cut-stump - undiluted 100% Basal bark treatment 1:3 of herbicide:natural oil	Foliar treatments - late spring to early fall Cut-stump - anytime except when snow is present Basal bark - anytime except when snow is present
Glyphosate (Rodeo *approved aquatic label* **nonselective, will kill all vegetation it contacts**)	Cut-stump - undiluted 100%	Treat anytime except when snow is present. Treat the cambium immediately after being cut. Thoroughly wet the surface, but not to the of run-off.
Imazapyr (Arsenal or Habitat *Habitat is approved for use in aquatic sites*)	Cut-stump - 8-12oz/gal water Foliar - 0.5-6.5oz/gal water + nonionic surfactant or methylated seed oil	Cut-stump - anytime except spring during heavy sap flows. Foliar - late spring to late summer. Spray entire crown and 70% of plant. Avoid spray solution run-off. After application, do not disturb saltcedar for 2 years or overall control will be reduced.

All photos © Kelly Uhing.

List B Species

Rangeland, pasture, and riparian site recommendations

1

Scotch thistle

Colorado Department of
Agriculture

305 Interlocken Pkwy
Broomfield, CO 80021

(303) 869-9030
weeds@state.co.us



Key ID Points

1. Flower heads cluster 2-5 and are purple to dark red in color.
2. Leaves are alternate, stalkless and hairy underneath.

Scotch thistle Identification and Management



Identification and Impacts

Scotch thistle (*Onopordum acanthium* or *O. tauricum*) is a non-native biennial forb that reproduces solely by seed. A biennial is a plant that completes its lifecycle within two years. During the first year of growth, Scotch thistle appears as a rosette in spring or fall. Rosettes can be 1 to 2 feet in diameter. During the second year in mid to late spring the stem bolts, flowers, sets seed, and the plant dies. A prolific seed producer, Scotch thistle can produce up to 14,000 seeds per plant.

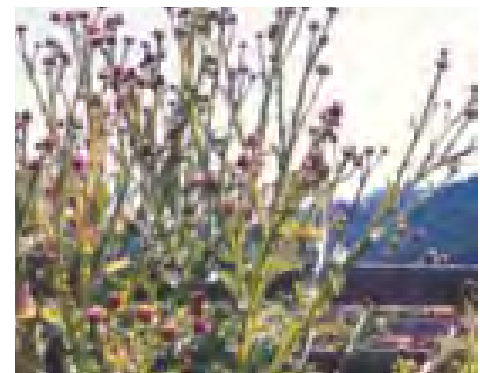
Scotch thistle can grow up to 12 feet tall. Stems are numerous, branched, and have broad, spiny wings. The leaves of species *acanthium* are large, grayish-green, spiny, and covered with fine dense hair giving the leaf a woolly appearance. The leaves of the species *tauricum* are similar in size, but are not hairy, smooth and bright green. On both species, the leaves have a distinct mid-rib. The flowers are violet to reddish in color, numerous (70-100/plant), and are surrounded by spine-tipped bracts. The plants flower from mid-June to September.

Due to the robust, spiny nature of Scotch thistle, this plant can act as a living barbed wire fence, making areas impassible for wildlife, livestock,

and people. Scotch thistle invades rangeland, overgrazed pastures, roadsides, and irrigation ditches. It also prefers high-moist soil areas adjacent to creeks and rivers.

The key to effective control of Scotch thistle is maintaining healthy pastures and rangeland, guarding against disturbance or overuse, and as with most biennials limit seed production. To reduce seed production, plants with buds or flowers should be collected and immediately disposed of or destroyed. Chemical control is most effective when plants are in rosette stage, spring or early fall. Mechanical controls can be used to eliminate small patches or plants in a later growth stage. Details on the back of this sheet can help to create a management plan compatible with your site ecology.

Scotch thistle is designated as a "List B" species in the Colorado Noxious Weed Act. It is required to be either eradicated, contained, or suppressed depending on the local infestations. For more information visit www.colorado.gov/ag/csd and click on the Noxious Weed Management Program. Or call the State Weed Coordinator at the Colorado Department of Agriculture, Conservation Services Division, 303-239-4100.



Photos © Map above: Crystal Andrews, Colorado Department of Agriculture; All other photos: Kelly Uhing, Colorado Department of Agriculture.

Onopordum acanthium or *O. tauricum*

**CULTURAL**

Establishment of selected grasses can be an effective cultural control of Scotch thistle. Contact your local Natural Resources Conservation Service for seed mix recommendations. Maintain healthy pastures and prevent bare spots caused by overgrazing. Bareground is prime habitat for weed invasions.

**BIOLOGICAL**

Urophora stylata, a fly predator, is used to help control this thistle. The female fly lays eggs in the seed head of the thistle. The maggot then consumes the seed in the flower. This species has overwintered in Colorado but the limited numbers will not allow for general redistribution. For more information, contact the Palisade Insectary of the Colorado Department of Agriculture at 970-464-7916.

**MECHANICAL**

Any mechanical or physical method that severs the root below the soil surface will kill Scotch thistle. Mowing or chopping is most effective when Scotch thistle plants are at full-bloom. Be sure to properly dispose of the flowering cut plants since seeds can mature and become viable after the plant has been cut down.

Integrated Weed Management:

Scotch thistle is best controlled in the rosette stage. For small infestations, Scotch thistle can be controlled by severing its taproot 1-2 inches below the ground. Control can be enhanced by a follow-up application of herbicides to the surviving rosettes. It is imperative to prevent seed production. Do not allow Scotch thistle flowers to appear.

Scotch thistle

HERBICIDES

NOTE: The following are recommendations for herbicides that can be applied to range and pasturelands. Rates are approximate and based on equipment with an output of 30 gal/acre. Please read label for exact rates. Always read, understand, and follow the label directions. The herbicide label is the LAW!

HERBICIDE	RATE	APPLICATION TIMING
Picloram (Tordon 22K - *Restricted Use*)	1 pint/acre + 0.25-0.5% v/v non-ionic surfactant	Apply spring or fall in the rosette stage.
Aminopyralid (Milestone)	7 fl. oz./acre + 0.25-0.5% v/v non-ionic surfactant	Apply spring or fall in the rosette stage.
Metsulfuron (Cimarron X-tra)	2 oz. product/acre 0.25-0.5% v/v non-ionic surfactant	Apply rosette to early bolt stages of growth. (Spring)

Spotted Knapweed Identification and Management

List B



Flowers bloom from June to October and seed-set usually occurs by mid-August. Spotted knapweed can also reproduce vegetatively from lateral roots.

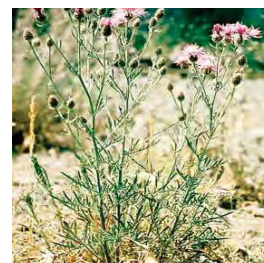
Spotted knapweed tends to invade disturbed, overgrazed areas. It also occurs in grasslands, pastures, foothill clearings, logged areas, roadsides, sandy soils, and floodplains. Since it can tolerate both dry conditions and moist areas it is an especially versatile invader. Spotted knapweed and diffuse knapweed infestations often occur together in Colorado and plants can hybridize. Once established, spotted knapweed reduces livestock and wildlife forage by out-competing native and desirable species.

The most effective method of control for spotted knapweed is to prevent seed production and establishment through proper land management. Maintain healthy pastures, rangeland, and forests; and continually monitor for new infestations. If spotted knapweed is already established, applying an integrated weed management approach is effective. Details on the back of this sheet can help to create a management plan compatible with your site ecology.

Spotted knapweed is designated as a "List B" species as described in the Colorado Noxious Weed Act. It is required to either be eliminated, contained, or suppressed depending on the local infestations. For more information please visit www.colorado.gov/ag/weeds and click on the Noxious Weed Program link or call the State Weed Coordinator, Colorado Department of Agriculture at 303-869-9030.



© Rob Routledge, bugwood.org



Spotted knapweed

Centaurea stoebe

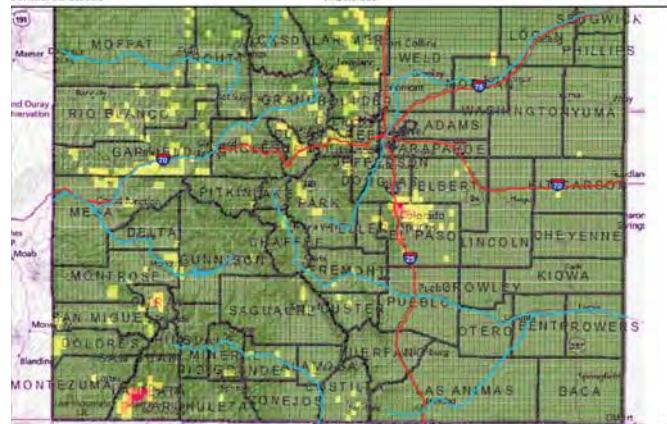
2013 Quarter Quad Survey

Spotted Knapweed

Centaurea stoebe

2013 Quarterquad Survey
Distribution and Abundance
in Colorado

4,921+ Infested Acres



Acreage estimates supplied by County Weed Supervisors and compiled by the Colorado Department of Agriculture.

Key ID Points

1. Floral bracts have black tips, with comb-like spines of equal length.
2. Flowers are pink to purple, and rarely white.
3. Basal and stem leaves are deeply lobed, but become simple and oblong towards the tips of the stem.

Integrated Weed Management Recommendations

Spotted knapweed is best controlled at the rosette stage with mechanical or chemical techniques in the spring and fall. A key goal is to prevent seed production. Management must be intense and persistent in order to deplete the seed bank in the soil.



© Patrick J. Alexander



Hybrid spotted-diffuse knapweed flower



CULTURAL

Bareground is prime habitat for weed invasions. Maintaining healthy pastures and forests, while minimizing disturbance and overgrazing, is crucial. Contact your local Natural Resources Conservation Service for seed mix recommendations.

BIOLOGICAL

Root and seed head weevils (*Cyphocleonus achates* and *Larinus minutus*) attack the roots and reduce seed production in spotted and diffuse knapweeds. This is an option for large infestations, though optimum results take 3-5 years. To obtain the insects, contact the Colorado Department of Agriculture's Insectary in Palisade, Colorado at 970-464-7916.

MECHANICAL

Dig when the soil is moist; remove the root crown, 2-4 inches of taproot, and lateral roots. Digging alone requires several years of multiple treatments within a growing season. Mowing spotted knapweed when flower buds or early flowers are present will stress the plant, but not kill it. Do not mow after seed-set because it can disperse the seeds. Annual cultivation can eliminate spotted knapweed.

CHEMICAL

The table below includes recommendations for herbicides that can be applied to rangeland and some pastures. Always read, understand, and follow the label directions. The herbicide label is the LAW!

HERBICIDE	RATE	APPLICATION TIMING
Aminopyralid (Milestone)	5-7 ounces/acre or 1 teaspoon/gal water	Spring at rosette to early bolt stage and/or in the fall to rosettes. Add 0.25% v/v non-ionic surfactant (equivalent to 0.32oz/gal water or 1 qt/100 gal water).
Aminocyclopyrachlor + chlorsulfuron (Perspective)	4.75 to 8 oz product/acre	Apply in the fall when above-ground stems die back and root buds are highly susceptible; can also apply in the bud to senescence stages. Important: Applications greater than 5.5 oz product/acre exceeds the threshold for selectivity. DO NOT treat in the root zone of desirable trees and shrubs. Add 0.25% v/v non-ionic surfactant.
Clopyralid (Transline, Stinger)	2/3 to 1 pint/acre	Apply to spring/fall rosettes before flowering stalk lengthens. Add 0.25% v/v non-ionic surfactant.
Clopyralid + 2,4-D (Curtail)	2-3 qts. product/acre	Apply in spring and fall to rosettes. Add 0.25% v/v non-ionic surfactant.

Spotted knapweed

Centaurea stoebe

Yellow starthistle

List A Species

Rangeland, pasture, and riparian site recommendations

1

Colorado Department of
Agriculture

305 Interlocken Pkwy
Broomfield, CO 80021

(303) 869-9030
weeds@state.co.us



Key ID Points

1. Bright yellow ray and disk flowers.
2. Winged stems.
3. Stiff spines at flower base
4. Plant has a unique blue-green color.

Yellow starthistle Identification and Management



Identification and Impacts

Yellow starthistle (*Centaurea solstitialis*) originated from Northern Spain. It is a winter annual that is blue-green in color, has a vigorous taproot, and produces bright yellow flowers with sharp, stiff spines surrounding the base of the flower that extend up to $\frac{3}{4}$ of an inch long. Yellow starthistle grows from 1 inch tall to 4 feet tall. Basal leaves are 1-3 inches long and deeply lobed while upper leaves are smaller and narrower. Stems appear winged and both stem and leaves have a slight whitish nap covering them. Yellow starthistle spreads by seed with a single large plant producing up to 100,000 seeds. Plumed and plumeless seeds disperse at different times.

Yellow starthistle typically germinates in the fall with increased moisture, overwinters as a seedling, and forms its rosette beginning in March through May. It can however, germinate extremely fast with optimal conditions throughout the entire summer (16 hours or less with ~ 70 degrees F and ample moisture). Flowering generally occurs from June to September and often later.

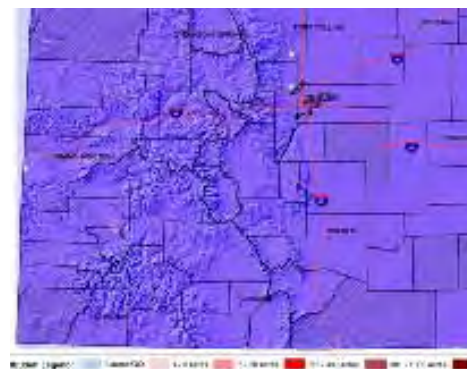
Habitats for yellow starthistle include rangelands, pastures, roadsides, wastelands, and lower elevations. Over utilized grasslands are particularly susceptible to invasion.

Yellow starthistle is fatally poisonous to horses (causing chewing disease) and is considered poor forage for all livestock and wildlife. It also destroys native plant communities. The seed bank of yellow starthistle is not completely understood. The site must be monitored for at least 15 years after the last flowering adult plants have been eliminated and treatments repeated when necessary.

The key to effective control of yellow starthistle is to prevent seed set from occurring in existing populations, monitoring your land for new infestations frequently, treating newly detected invasions rapidly, and preventing new introductions from occurring. Details on the back of this sheet can help to create a management plan compatible with your site ecology.

Yellow starthistle is designated as a "List A" species in the Colorado Noxious Weed Act. It is designated for statewide eradication. For more information visit www.colorado.gov/ag/weeds and click on the Noxious Weed Management Program. Or call the State Weed Coordinator at the Colorado Department of Agriculture, Conservation Services Division, 303-239-4100.

Map of yellow starthistle infestation.



Photos clockwise from lower left © (3 on left side) Kelly Uhing, Colorado Department of Agriculture, Steve Dewey, Utah State University, Bugwood.org; and map by Crystal Andrews, Colorado Department of Agriculture.

Centaurea solstitialis

Integrated Weed Management recommendations

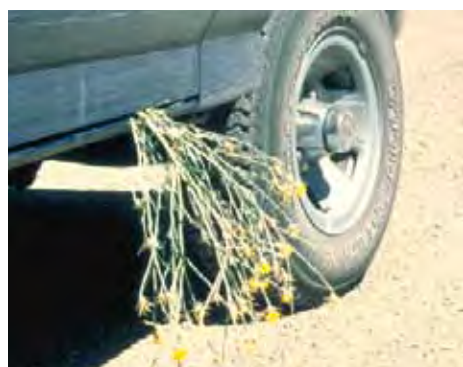
List A Species

**CULTURAL**

Following initial control, establishment of selected grasses can be an effective cultural control of yellow starthistle. Contact your local Natural Resource Conservation Service for seed mix recommendations. Maintain healthy pastures and prevent bare spots caused by overgrazing. Bare ground is prime habitat for weed invasions.

**BIOLOGICAL**

Insect biocontrol agents exist but are not included in the state prescribed management plan. Eradication is the management objective for all List A species. For more information on biocontrol in Colorado, contact the Palisade Insectary of the Colorado Department of Agriculture at 970-464-7916.

**MECHANICAL**

Hand pull when soil is moist and make certain to pull all the roots. Bag specimens carefully so as to not scatter seeds if flowering. Plants vary greatly in size so be sure to look for plants that are only a few inches tall, as well as plants that are several feet tall. Include dried skeletons as they may still contain seed. Mowing is not advisable and may extend life of the plant and stimulate additional flowering.

Integrated Weed Management:

The sheer number of seeds, high seed viability, and fast growth of yellow starthistle requires a persistent control program. Using herbicides and mechanical techniques to control the invasion followed by establishing a desirable plant community can be effective.

Management must be persistent to deplete the seed bank in the soil.

It is imperative to prevent seed production. Do not allow yellow starthistle plants to go to seed.

Yellow starthistle

HERBICIDES

NOTE: The following are recommendations for herbicides that can be applied to range and pasturelands. Rates are approximate and based on equipment with an output of 30 gal/acre. Please read label for exact rates. **Always read, understand, and follow the label directions.** The herbicide label is the **LAW!**

Herbicide	Rate	Application Timing
Aminopyralid (Milestone)	7 oz. product/acre	Apply during rosette growth and bolting growth stages. (Early spring to early summer)
Aminocyclopyrachlor + chlorsulfuron (Perspective)	3-5 oz. product/acre + 0.25% v/v non-ionic surfactant	Apply during rosette growth and bolting growth stage; most effective at the seedling to the rosette stages. IMPORTANT: Applications greater than 5.5 oz. product/acre exceeds the threshold for selectivity. DO NOT treat in the root zone of desirable trees and shrubs. Not permitted for use in the San Luis Valley.
Clopyralid (Transline)	1.33 pints product/acre	Apply during rosette growth and bolting growth stages. (Early spring to early summer)
Additional herbicide recommendations for this and other species can be found at: www.colorado.gov/agconservation/CSUHerbicideRecommendations.pdf		

Photos, top to bottom © Stephen Ausmus, USDA Agricultural Research Service, Bugwood.org; University of Idaho Archive, University of Idaho, Bugwood.org; and Jerry Asher, USDI Bureau of Land Management, Bugwood.org.

List B Species

Rangeland, pasture, and riparian site recommendations

1

Yellow toadflax

Colorado Department of
Agriculture

305 Interlocken Pkwy
Broomfield, CO 80021

(303) 869-9030
weeds@state.co.us



Key ID Points

1. Yellow flowers that are like snapdragons with deep orange centers.
2. Stems that are woody at the base and smooth to the top.

Yellow toadflax Identification and Management



Identification and Impacts

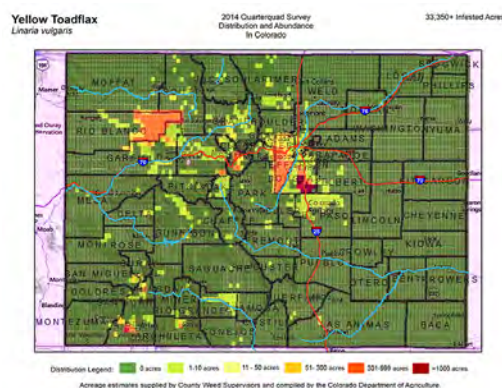
Yellow toadflax (*Linaria vulgaris*) is a perennial escaped ornamental plant that is native to the Mediterranean region. The leaves are narrow, linear, and 1 to 2 inches long. The stems are woody at the base and smooth toward the top. Sparingly branched and 1 to 3 feet tall. The showy snapdragon-like flowers are bright yellow with a deep orange center and have a spur as long as the entire flower. It develops an extensive root system, making control options varied. Yellow toadflax displaces desirable plant communities reducing ecological diversity and rangeland value. Decreases forage for domestic livestock, some big game species and decreases habitat for associated animal communities. The plant is known to be mildly poisonous to cattle. Goats and sheep have been known to graze the plants with little effect.

Habitats for Yellow toadflax include roadsides, vacant lots, gravel pits, fields, waste areas, other disturbed sites and rangeland. It has adapted to a variety of site conditions, from moist to dry and does well in all types of soil. The plant can even establish in areas of excellent

condition in natural disturbances or small openings.

The key to effective control of Yellow toadflax is prevention and integrating as many management strategies as possible. Prevention is always desirable when dealing with Yellow toadflax. Early detection and eradication can keep populations from exploding, making more management options available. With the plants varying genetically using many different approaches is important such as; herbicide, mechanical, cultural and biological methods. Details on the back of this sheet can help to create a management plan compatible with your site ecology.

Yellow toadflax is designated as a "List B" species in the Colorado Noxious Weed Act. It is required to be either eradicated, contained, or suppressed depending on the local infestations. For more information visit www.colorado.gov/ag/weeds and click on the Noxious Weed Management Program. Or call the State Weed Coordinator at the Colorado Department of Agriculture, Conservation Services Division, 303-239-4100.



Infestation photo, above, © John M. Randall, The Nature Conservancy. Infestation map, Crystal Andrews, Colo. Dept. of Agriculture. Flower photo, top, © Missouri Extension. Flower bract photo, left, © Paul Slichter, University of Wisconsin, Stevens Point. Leaves photo © Gary Fewless, University of Wisconsin, Stevens Point.

Linaria vulgaris

**CULTURAL**

Establish select grasses and forbs as an effective cultural control of Yellow toadflax. Contact your local Natural Resources Conservation Service for seed mix recommendations. Bareground is prime habitat for weed invasions, so maintain healthy pastures and prevent bare spots caused by overgrazing.

**BIOLOGICAL**

Calophasia lunula, a predatory noctuid moth, feeds on leaves and flowers of Yellow toadflax. Eteobalea intermediella, a root boring moth and Mecinus janthinus a stem boring weevil are also available. For more information, contact the Colorado Department of Agriculture's Insectary in Palisade, Colorado at 970-464-7916.

**MECHANICAL**

Handpulling or digging is not recommended for eradication of Yellow toadflax because it's unlikely that the entire root will be excavated and a new plant is likely to occur. A single new plant might be an exception. Tillage is not recommended due to the creeping root system.

Integrated Weed Management:

Because of the high genetic variability of the toadflax species it is critical to integrate as many management strategies as possible into the control program. Two local populations may respond differently to the same herbicides.

Keys to management are to prevent seed formation and vegetative spread by roots. Controlling is expensive and difficult to treat toadflaxes, prevention is the best option.

HERBICIDES

NOTE: The following are recommendations for herbicides that can be applied to range and pasturelands. *Rates are approximate and based on equipment with an output of 30 gallons per acre.* Always read, understand, and follow the label directions. The herbicide label is the LAW!

Herbicide	Rate	Application Timing
Chlorsulfuron (Telar - general use)	Apply 1-3 oz/A product plus 0.50% v/v MSO Silicone Blend surfactant (multiple brands available)	Apply at mid-flowering through fall. Telar has grazing restrictions above 1 1/3 oz/A rate. Please refer to the label for more detail.
Picloram + Chlorsulfuron (Tordon 22K - *restricted use* + Telar - general use)	Apply at 1 qt/Acre Picloram + 1.25 oz/A Telar plus 0.25% v/v non-ionic surfactant.	Apply at flowering through fall. Typically late August through September application timing has shown best results. Re-treatment may be necessary. Refer to label for grazing restrictions on Telar.
Picloram (Tordon 22K - *restricted use*)	Apply at 1.5 qt/A plus 0.25% v/v non-ionic surfactant or 1 qt/A crop oil concentrate	Apply in fall (late August through September). Re-treatment may be necessary.

Yellow toadflax



APPENDIX II

GOOSE HAVEN RESERVOIR
WEED INVENTORY SHEET

[illegible]

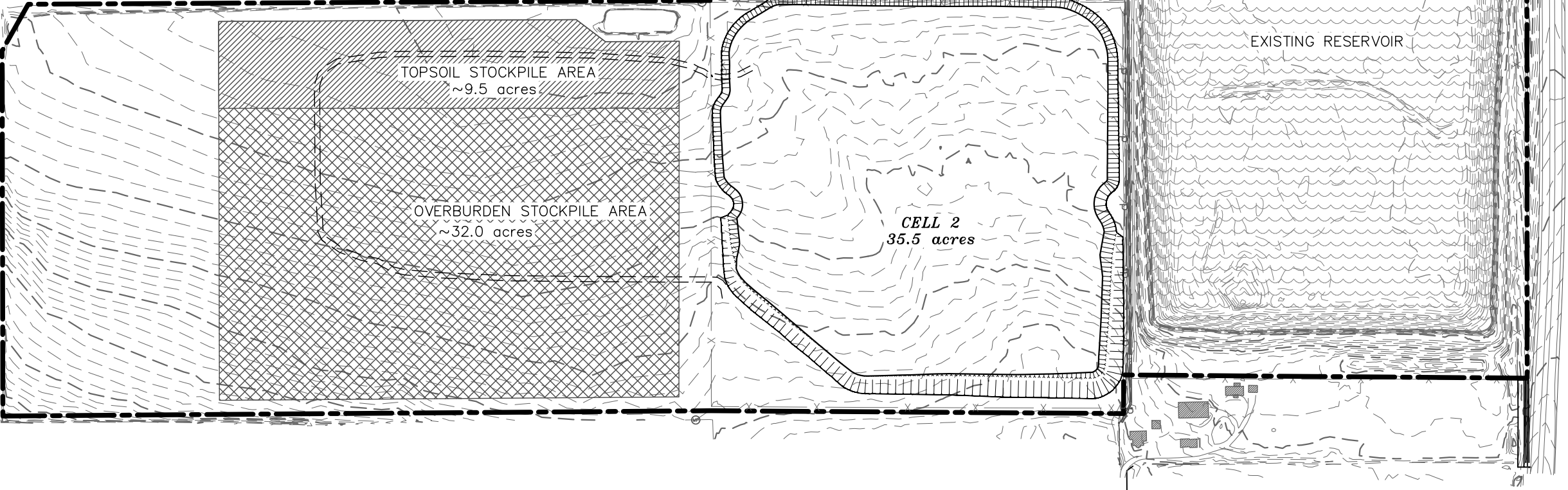
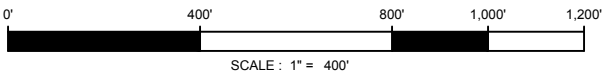
LEGEND

--- PROPERTY/PERMIT BOUNDARY

--- MINING LIMITS OF EXCAVATION

DATE _____

 WEED AREAS (TO BE DRAWN IN)



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

**Weiland, Inc.**
Environmental & Engineering

PO BOX 18087
BOULDER, CO. 80308
ph 303-443-9521

GOOSE HAVEN RESERVOIR #2 - COMPLEX EXPANSION

WEED MANAGEMENT PLAN

LAFAYETTE, CO

PREPARED FOR: **ROCK PRODUCTS, LLC**

FIELD WEED INVENTORY MAP

SCALE 1"=400'	DWG NO. FIGURE 2.DWG	REV. REV
DRAWN BY: CTW	CHECKED BY: PFW	DATE: 11/02/16
		SHEET 1 OF 1