ECF-100KR1-17-0092
Revision 0

Determination of Representative Lineal Dimensions for 100-K Waste Sites for Use in Soil Screening Level and Preliminary Remedial Goal Comparisons to Exposure Point Concentrations

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

Contractor for the U.S. Department of Energy
under Contract DE-AC06-08RL14788

P.O. Box 1600
Richland, Washington 99352

Approved for Public Release;
Further Dissemination Unlimited

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J. Pinkard
INTERA, Inc.

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P.O. Box 1600
Richland, Washington 99352

APPROVED
By Erin C. Meegan at 10:17 am, Feb 14, 2018

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ENVIRONMENTAL CALCULATION COVER PAGE

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	Name /Position	Signature	Date
Preparer:	J Pinkard/Geologist	Jamie Pinkard	9/11/2017
Checker:	J Lopez/GIS Analyst	Joe Lopez	9/11/2017
Senior Reviewer:	D Roose/Sr GIS Analyst/Programmer	Denis Roose	9/11/2017
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Integration Lead	WE Nichols/Modeling Team Leader NOT APPLICABLE		11 SEP 2017

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	Name /Position	Signature	Date
Risk/Modeling Integration Manager:	AH Aly/Risk & Modeling Integr. Mngr		2/14/18

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Terms

ArcGIS®	Commercial desktop Geographic Information System software
ECF	Environmental Calculation File
EPC	Exposure Point Concentration
Esri®	Environmental Systems Research Institute
Decision Unit	A geographic representation of the location and extent of soil or waste material, about which a decision will be made.
GIS	Geographical Information System
HISI	Hanford Information System Inventory
IFV	Intersecting Flow Vectors
Planimetric	Horizontal position of geographic features, independent of elevation or relief
PRG	Preliminary Remediation Goal
RLD	Representative Lineal Dimension
SSL	Soil Screening Level
Vector	A directed line segment commonly drawn with the initial point represented by a tail and the terminal point represented by a tip.
Waste Site	Any location within the boundary of the Hanford Site that may require action to mitigate a potential environmental impact.

1 Purpose

The purpose of this environmental calculation file (ECF) is to determine representative lineal dimensions (RLD), in the generalized direction of post-remedy groundwater flow for individual waste site decision unit polygon representations, in the Department of Energy Hanford 100-K area. RLDs are determined based on a set of meter-spaced planimetric vectors trending in the direction of groundwater flow.

Decision unit representative lineal dimensions are needed to scale soil screening levels (SSL) and preliminary remediation goals (PRG). The dimensionally scaled SSL and PRG values will be compared to exposure point concentrations (EPC) in a separate calculation to determine which waste sites are projected to have residual soil contamination that exceed groundwater protection levels in the future.

2 Background

Decision unit boundaries span a wide range of planimetric shapes. Pipeline-related decision units are generally long, linear, and oriented in certain directions, whereas evaporation tanks may be composed of small, circular polygons.

This method uses three python scripts. The first script generates 1 meter spaced parallel flow vectors trending in the direction of groundwater flow. The second script clips flow vectors to decision unit boundaries and calculates statistics on the flow vector lengths. The third script produces maps of each decision unit boundary and its associated flow vectors.

This method calculates the following statistics: vector count, minimum length, maximum length, average length, and standard deviation of the lengths. In general, the maximum vector length is used as the representative lineal dimension.

3 Methodology

1. Intersecting Flow Vectors (IFV)

    a. **EXPORT DATA**[1] for decision units of interest into a new layer from the current published ehsit shapefile or geodatabase feature class.

    b. Use the first Python script to create flow vectors orientated in the direction of groundwater flow.

    c. Use the second Python script to **CLIP** the flow vectors to the decision unit layer, and calculate statistics on flow vector length.

    d. Use the third Python script to generate maps displaying the site boundary, flow vectors, and statistics for each decision.

    e. Confirm the accuracy of the outputs by visually inspecting the generated maps and comparing vector lengths to the reported statistics.

[1] ArcGIS functions indicated in bold type.

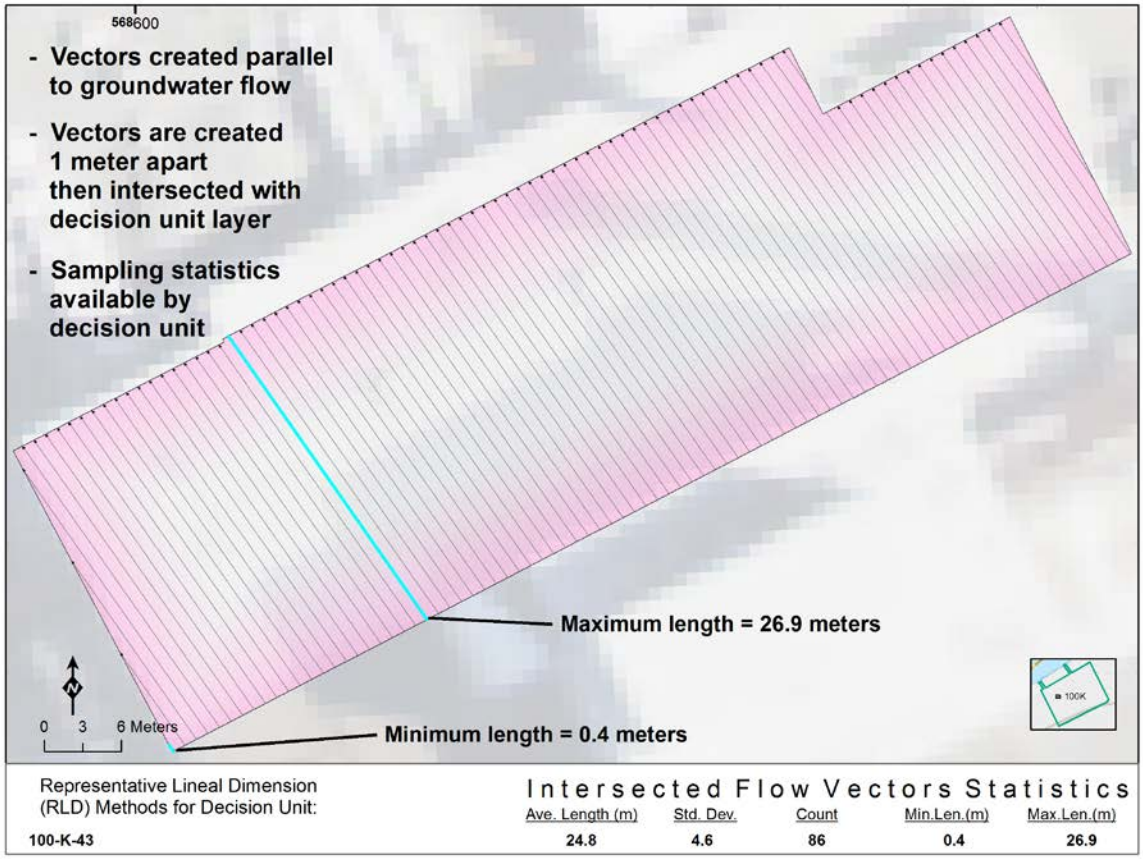


Figure 1. Intersecting Flow Vector (IFV) Map

4 Assumptions and Inputs

The IFV method assumes the decision unit layer correctly depicts spatial and tabular information. This method also assumes that groundwater flows in a constant direction throughout the area of interest. All coordinates are assumed to be in NAD_1983_StatePlane_Washington_South_FIPS_4602. **Table 1** represents the name of the source data, along with the inputs for each of the three python scripts used in this method.

Table 1. Index of Data Sources and Script Inputs

Name	Description	Value used in calculation[a]
Data Sources		
Decision Unit	A geographic representation of the location and extent of soil or waste material, about which a decision will be made.	..\GIS\shp\ehsit\ehsit.shp
Operational Area	Operating areas that delineate various areas of interest	..\GIS\shp\bdjurdsv\bdjurdsv.shp

Table 1. Index of Data Sources and Script Inputs

Name	Description	Value used in calculation[a]
100 K Decision Units	Decision Unit polygons that have been clipped to the 100-K Area.	..\GIS\shp\ehsit\100K_ehsit.shp
Inputs for Script 1. Draw Groundwater Flowlines		
Initial starting point	Initial starting point for drawing flow vectors.	(571379.3, 146524.5)
Vector Length	Length, in meters, of the flow vectors to be drawn by the script.	3000
Flow direction	The direction, in degrees, of groundwater flow.	325
East extent	Easternmost extent for the starting point of a polyline	572000
West extent	Westernmost extent for the starting point of a polyline	568500
Spatial Reference[b]	Spatial reference for polyline shapefile.	..\GIS\shp\ehsit\ehsit.shp
Inputs for Script 2. Calculate Statistics		
Flow Vector	The groundwater flow vectors generated by script 1.	..\GIS\shp\polylines\GWFlowlines.shp
100 K Decision Units	Decision Unit polygons that have been clipped to the 100-K Area.	..\GIS\shp\ehsit\100K_ehsit.shp
Statistics Table	Output path for statistics csv file	..\GIS\python\polyline_stats.csv
Decision Unit Count	Count of Decision Unit polygons in the 100 K Decision Unit shapefile	145
Inputs for Script 3. Create Figures		
Template Mxd Path	Template map document used to generate decision unit maps	..\GIS\mxd\WSD_Analysis_Template.mxd
Decision Unit Layer	Name of in-map Decision Unit Layer	100K_ehsit
Statistics Table	Path of statistics csv file	..\GIS\python\polyline_stats.csv
Decision Unit Count	Count of Decision Unit polygons in the 100 K Decision Unit Layer	145
Mxd Directory	Directory for output mxd files	..\GIS\mxd
Pdf Directory	Directory for output pdf files	..\GIS\pdf

Notes:

a. File paths are shown as relative file locations.

b. Uses the spatial reference from another input shapefile.

Script 1 assumes the initial starting point is a location outside of the area of interest in the opposite direction of groundwater flow. For example, if groundwater flows in a northwest direction, then the initial starting point should be somewhere southeast of the area of interest. Under these conditions, the flow vectors trend across the area of interest. This script also assumes that the flow vectors are of sufficient length to completely penetrate through all decision units in the area of interest, in this case the 100-K Decision Units.

Script 2 depends on three main assumptions. First, Script 1 has created the flow vector shapefile. Second, the 100-K Decision Units shapefile must have a field, "FID", with numbers ranging from 0 to 1 less than the total number of decision units being evaluated. For example, if there 145 decision units then the FID field should range from 0 to 144. Lastly, the statistics must be written out into a csv file.

Script 3 assumes that the template mxd is formatted correctly, and contains 100-K Decision Units Layer. The mxd directory, pdf directory, and statistics table must be created prior to running script 3.

5 Software Applications

5.1 Approved Software

5.1.1 Description

- Maps, data, and calculations associated with this ECF were created using ArcGIS®[2] for Desktop 10.3.1 Basic product level software by Esri.
- ArcGIS is registered on the Hanford Information Systems Inventory (HISI) with Identification Numbers 1583 and 3402, and is approved for use.
- All operations were performed on a Dell®[3] Precision T3610 x64-based PC desktop with 16GB RAM running Windows®[4] 10 Pro, identified with property tag INTERA-00754.

5.1.2 Software Installation and Checkout

Esri license authorization information was provided to INTERA corporate Esri contact and management upon request for review on 5/6/2015.

5.1.3 Statement of Valid Software Application

- GIS is a computerized system for common tasks involving the creation, management, query, analysis, and display of spatial data. It is a valid and appropriate set of software tools to solve problems analytically and support this ECF process. Geoprocessing tools were used together with python scripting to provide an alternative solution to a complex problem and if needed, can be altered to enhance repeatability and to establish more uniform practices.
- ArcGIS 10.3.1 was used within the technical and functional limitations. Temporary geoprocessing datasets were well below the 2GB limitation.

[2] ArcGIS® and ArcMap™ are the intellectual property of Esri and are used herein under license. For more information about Esri® software, please visit www.esri.com.

[3] Dell is a registered trademark of Dell Corporation in the United States.

[4] Windows is a registered trademark of Microsoft Corporation in the United States and other countries.

6 Calculation

Table 2. Summary of Calculated Statistics

Decision Unit	Vector Count	Minimum Length (m)	Maximum Length (m)	Average Length (m)	Standard Deviation (m)
100-K-1	4	1.0	1.6	1.1	0.3
100-K-2	98	2.7	215.1	122.2	72.6
100-K-3	62	0.9	22.7	6.1	5.6
100-K-4	23	4.7	37.2	29.5	11.1
100-K-5	2	1.6	1.7	1.7	0.0
100-K-6	3	0.6	2.6	1.8	0.8
100-K-7	10	5.3	14.2	11.8	3.0
100-K-8	13	1.9	14.9	11.8	4.5
100-K-9	2	2.0	2.1	2.1	0.0
100-K-10	2	1.8	2.2	2.0	0.2
100-K-11	2	1.9	2.1	2.0	0.1
100-K-12	3	0.1	2.2	1.2	0.8
100-K-13	4	1.6	4.1	3.2	1.0
100-K-14	3	1.3	2.6	1.9	0.5
100-K-15	12	5.2	12.4	10.0	2.3
100-K-16	12	5.1	12.2	9.7	2.4
100-K-18	3	0.1	2.6	1.4	1.0
100-K-19	8	3.5	8.0	6.5	1.6
100-K-20	7	2.2	5.1	3.2	1.0
100-K-21	9	4.2	9.5	7.7	1.7
100-K-22	9	4.0	6.8	5.0	1.0
100-K-23	9	5.0	9.4	7.7	1.6
100-K-24	5	3.6	5.4	4.5	0.8
100-K-25	3	0.1	2.5	1.0	1.1
100-K-27	8	3.3	7.9	6.3	1.6
100-K-28	6	1.4	5.4	4.0	1.4
100-K-29	29	1.8	27.6	24.1	7.3
100-K-30	5	3.6	10.7	7.9	3.4
100-K-31	5	3.9	10.7	8.0	3.3
100-K-32	5	3.8	10.7	8.0	3.3
100-K-33	5	3.4	10.7	8.0	3.4
100-K-34	1	2.9	2.9	2.9	0.0
100-K-35	2	2.9	2.9	2.9	0.0
100-K-36	1	1.0	1.0	1.0	0.0
100-K-37	3	0.6	2.1	1.2	0.7
100-K-38	2	1.5	2.0	1.8	0.3
100-K-39	27	3.8	37.0	30.6	10.7
100-K-42	86	1.1	26.6	24.4	4.7
100-K-43	86	0.6	26.9	24.8	4.6
100-K-46	2	1.0	2.5	1.8	0.7

Table 2. Summary of Calculated Statistics

Decision Unit	Vector Count	Minimum Length (m)	Maximum Length (m)	Average Length (m)	Standard Deviation (m)
100-K-47	797	1.0	34.3	4.4	4.8
100-K-48	40	1.4	11.1	5.4	2.2
100-K-49	64	2.7	50.1	11.6	9.7
100-K-50	23	2.0	17.4	5.8	4.6
100-K-51	4	2.2	2.8	2.7	0.2
100-K-52	1	0.5	0.5	0.5	0.0
100-K-53	72	2.0	19.3	7.2	5.9
100-K-54	95	1.0	15.9	6.6	5.2
100-K-60	315	0.8	1.3	1.2	0.1
100-K-61	25	2.6	13.7	12.7	2.7
100-K-62	25	1.2	13.8	12.7	3.0
100-K-66	77	6.8	34.6	32.7	5.7
100-K-67	78	0.1	41.8	33.0	7.1
100-K-68	3	0.5	2.5	1.7	0.9
100-K-69	2	1.4	1.4	1.4	0.0
100-K-70	19	1.0	3.5	2.5	0.8
100-K-71	5	1.5	2.5	2.3	0.4
100-K-72	9	0.1	12.9	5.4	3.6
100-K-73	5	1.9	2.5	2.4	0.2
100-K-74	18	1.0	4.3	2.5	0.9
100-K-75	3	0.3	1.4	1.0	0.5
100-K-77	3	3.2	3.2	3.2	0.0
100-K-79	635	1.0	27.5	3.6	3.0
100-K-94	2	0.4	1.0	0.7	0.3
100-K-97	1	0.4	0.4	0.4	0.0
100-K-98	1	0.6	0.6	0.6	0.0
100-K-99	138	0.5	47.8	25.0	10.8
100-K-100	187	0.0	49.8	19.2	12.0
100-K-101	235	1.0	17.3	13.1	3.1
100-K-102	215	2.3	16.7	13.8	2.6
100-K-103	140	2.1	60.0	33.3	17.0
100-K-104	4	2.3	4.0	3.3	0.7
100-K-105	12	4.1	12.2	9.7	2.5
100-K-106	8	1.5	7.4	4.7	2.2
100-K-107	11	0.2	18.6	12.5	7.1
100-K-108	22	0.9	3.8	2.1	1.0
100-K-109	50	6.1	21.4	20.8	2.6
100-K-110	260	2.1	145.8	125.9	27.2
100-K-112	13	4.4	6.8	6.5	0.6
100-K-115	57	1.4	19.3	18.2	3.6
100-K-117	31	2.0	11.4	10.6	2.3
100-K-118	1	1.0	1.0	1.0	0.0

Table 2. Summary of Calculated Statistics

Decision Unit	Vector Count	Minimum Length (m)	Maximum Length (m)	Average Length (m)	Standard Deviation (m)
100-K-119	103	3.7	80.7	74.2	16.5
100-K-120	9	1.0	15.3	11.5	5.1
100-K-121	1	1.0	1.0	1.0	0.0
100-K-122	1	0.3	0.3	0.3	0.0
100-K-123	1	0.2	0.2	0.2	0.0
100-K-124	9	2.6	11.7	8.9	3.0
100-K-125	11	0.1	11.6	7.6	3.8
100-K-126	1	1.0	1.0	1.0	0.0
100-K-127	22	3.1	11.8	9.5	2.0
100-K-128	60	6.4	42.9	39.2	9.1
100-K-129	61	1.9	43.2	38.9	10.3
100-K-130	1	0.9	0.9	0.9	0.0
100-K-131	5	0.5	3.8	3.0	1.3
116-KE-1	24	0.3	6.2	2.3	1.9
116-KE-2	59	0.9	2.7	1.1	0.4
116-KE-3	7	0.4	8.6	5.3	2.3
116-KE-4	278	2.3	134.3	113.1	19.0
116-KE-5	47	1.2	37.0	31.2	9.9
116-KE-6A	1	0.8	0.8	0.8	0.0
116-KE-6B	1	0.5	0.5	0.5	0.0
116-KE-6C	1	1.0	1.0	1.0	0.0
116-KE-6D	1	1.0	1.0	1.0	0.0
116-KW-1	22	1.3	6.0	2.5	1.8
116-KW-2	7	1.4	8.4	5.4	2.0
116-KW-3	277	20.3	130.6	111.3	17.1
116-KW-4	47	3.1	37.0	31.3	9.6
118-KE-1	88	3.4	39.6	37.1	7.2
118-KE-2	26	0.6	8.7	6.8	2.6
118-KW-1	89	0.7	39.6	36.8	7.9
118-KW-2	25	0.4	8.9	7.3	2.4
120-KE-1	3	1.1	1.9	1.6	0.4
120-KE-2	1	0.8	0.8	0.8	0.0
120-KE-3	14	2.2	5.2	4.8	1.0
120-KE-4	3	3.6	6.2	5.3	1.2
120-KE-5	3	6.2	6.2	6.2	0.0
120-KE-6	6	3.5	6.2	5.1	1.0
120-KE-8	7	2.1	5.7	4.8	1.2
120-KE-9	8	0.8	5.3	3.6	1.7
120-KW-1	3	1.3	2.0	1.8	0.3
120-KW-2	1	0.9	0.9	0.9	0.0
120-KW-3	4	1.0	6.3	4.3	2.2
120-KW-4	3	5.2	6.2	5.9	0.4

Table 2. Summary of Calculated Statistics

Decision Unit	Vector Count	Minimum Length (m)	Maximum Length (m)	Average Length (m)	Standard Deviation (m)
120-KW-5	6	2.7	6.0	4.8	1.2
120-KW-6	5	2.2	3.0	2.9	0.3
120-KW-7	8	0.5	5.4	3.6	1.8
126-KE-2	12	4.8	12.4	10.0	2.4
126-KE-3	12	4.6	12.3	9.8	2.4
130-K-1	4	1.3	1.8	1.7	0.2
130-K-2	1	1.8	1.8	1.8	0.0
130-K-3	12	0.1	12.0	10.1	3.6
130-KE-1	1	1.0	1.0	1.0	0.0
130-KE-2	34	0.6	43.1	34.2	12.7
130-KW-1	1	0.8	0.8	0.8	0.0
130-KW-2	34	1.1	42.8	33.6	12.5
132-KE-1	7	0.2	6.2	4.2	2.1
132-KW-1	7	1.4	6.2	4.3	1.9
1607-K1	96	0.5	8.5	2.4	2.7
1607-K2	16	3.4	8.6	7.8	1.6
1607-K3	30	1.0	10.7	8.1	2.5
1607-K4	129	1.0	34.1	5.2	8.5
1607-K5	17	0.9	36.8	25.2	12.8
1607-K6	173	0.1	36.9	4.0	8.6
UPR-100-K-1	1	1.0	1.0	1.0	0.0

7 Results/Conclusions

The IFV method calculates the range and variability of flow vector lengths for each decision unit. This method can be easily executed, and allows the user to determine the appropriate RLD.

8 References

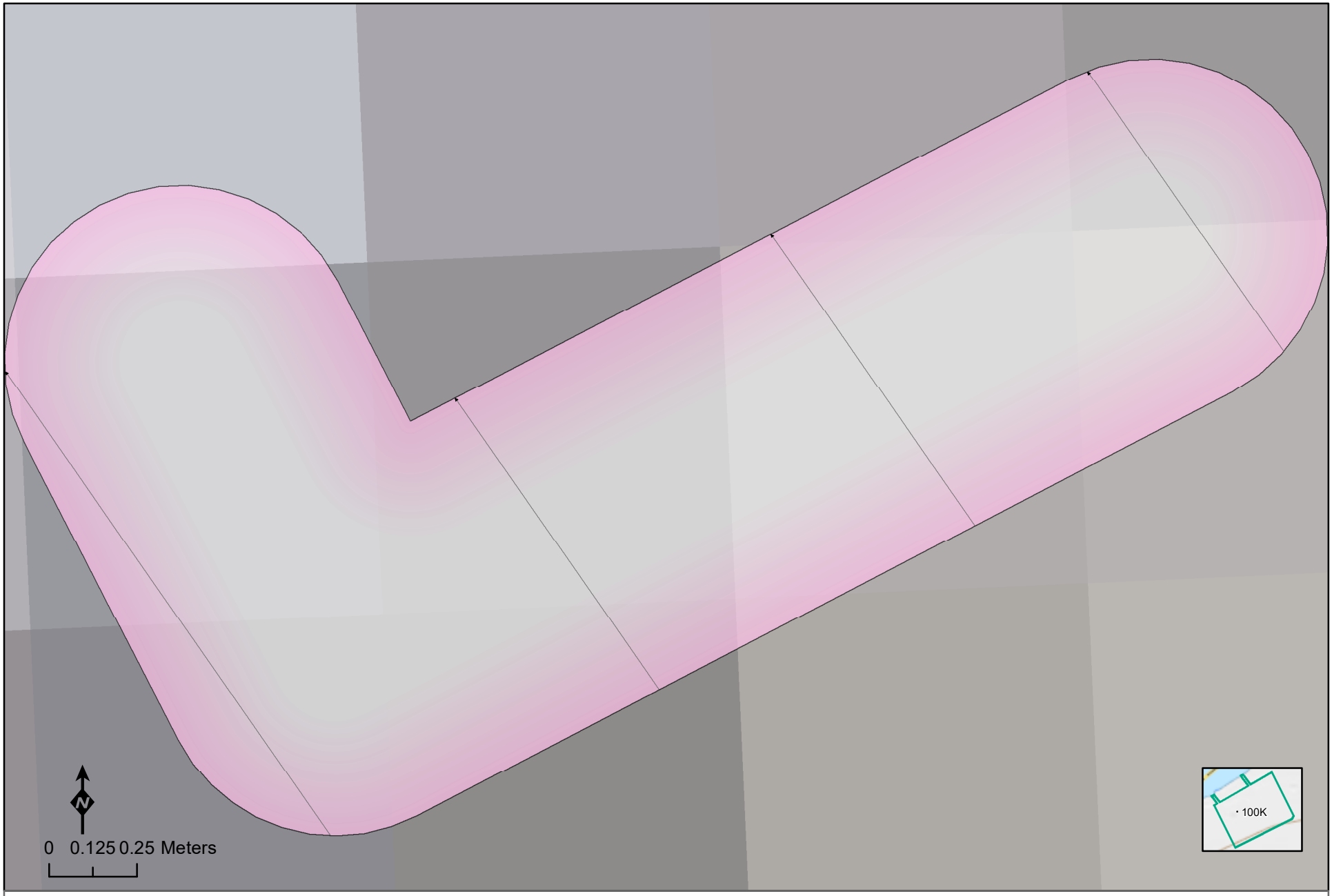
Esri 2014. *ArcGIS™ for Desktop*. Environmental Systems Research Institute, Redlands, California.

EPA530-D-02-002, 2002. *RCRA Waste Sampling Draft Technical Guidance,* United States Environmental Protection Agency, Office of Solid Waste. Available at: https://www.epa.gov/sites/production/files/2015-10/documents/rwsdtg_0.pdf.

DOE (U.S. Department of Energy), 2012, *Final Tank Closure and Waste Management Environmental Impact Statement for the Hanford Site, Richland, Washington,* DOE/EIS-0391, Office of River Protection, Richland, Washington. Available at: http://www.hanford.gov/page.cfm/FinalTCWMEIS.

Appendix A

100 K Decision Units Map Series

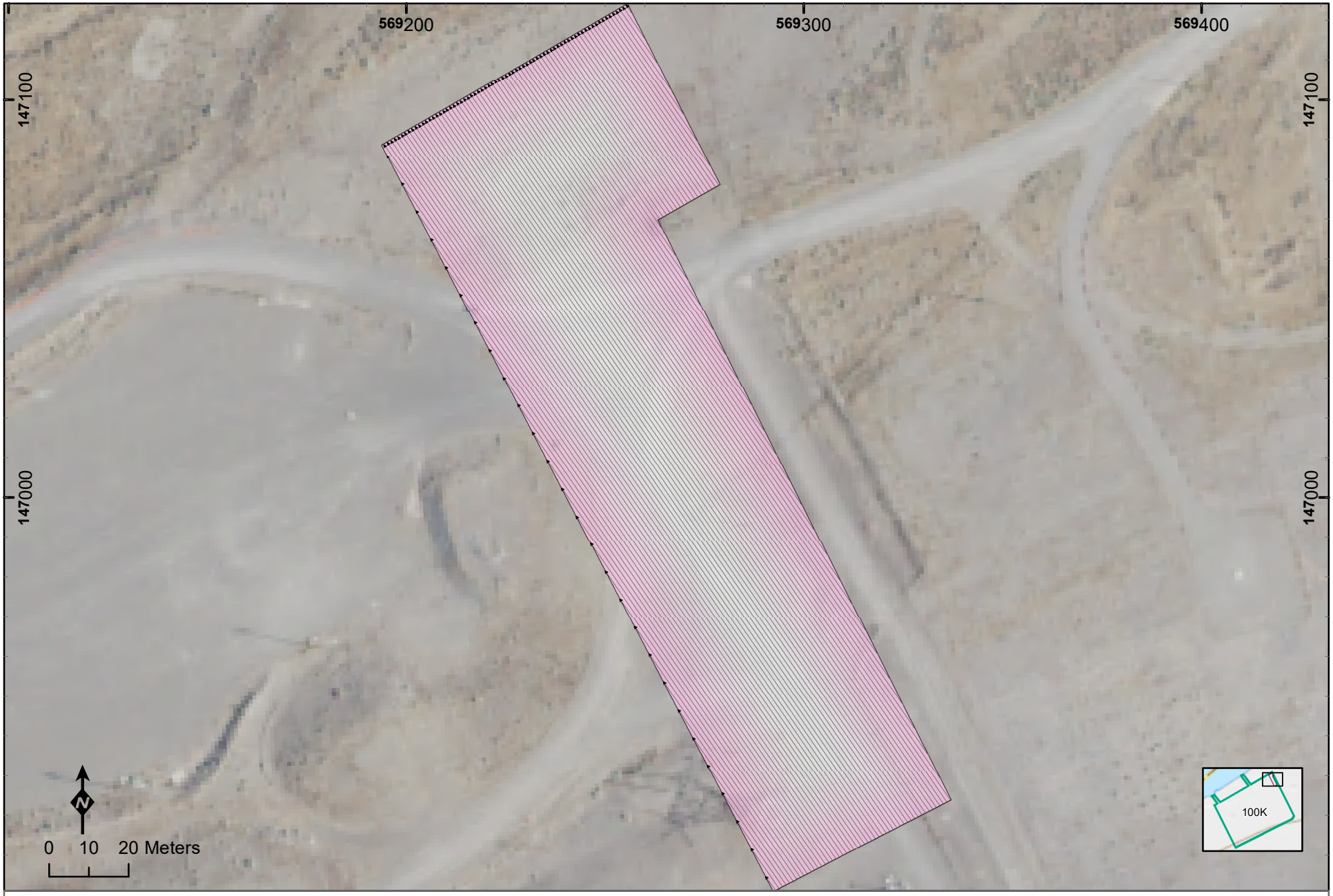


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-1

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.1	**0.3**	**4**	**1.0**	**1.6**



Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-2

Intersected Flow Vectors Statistics

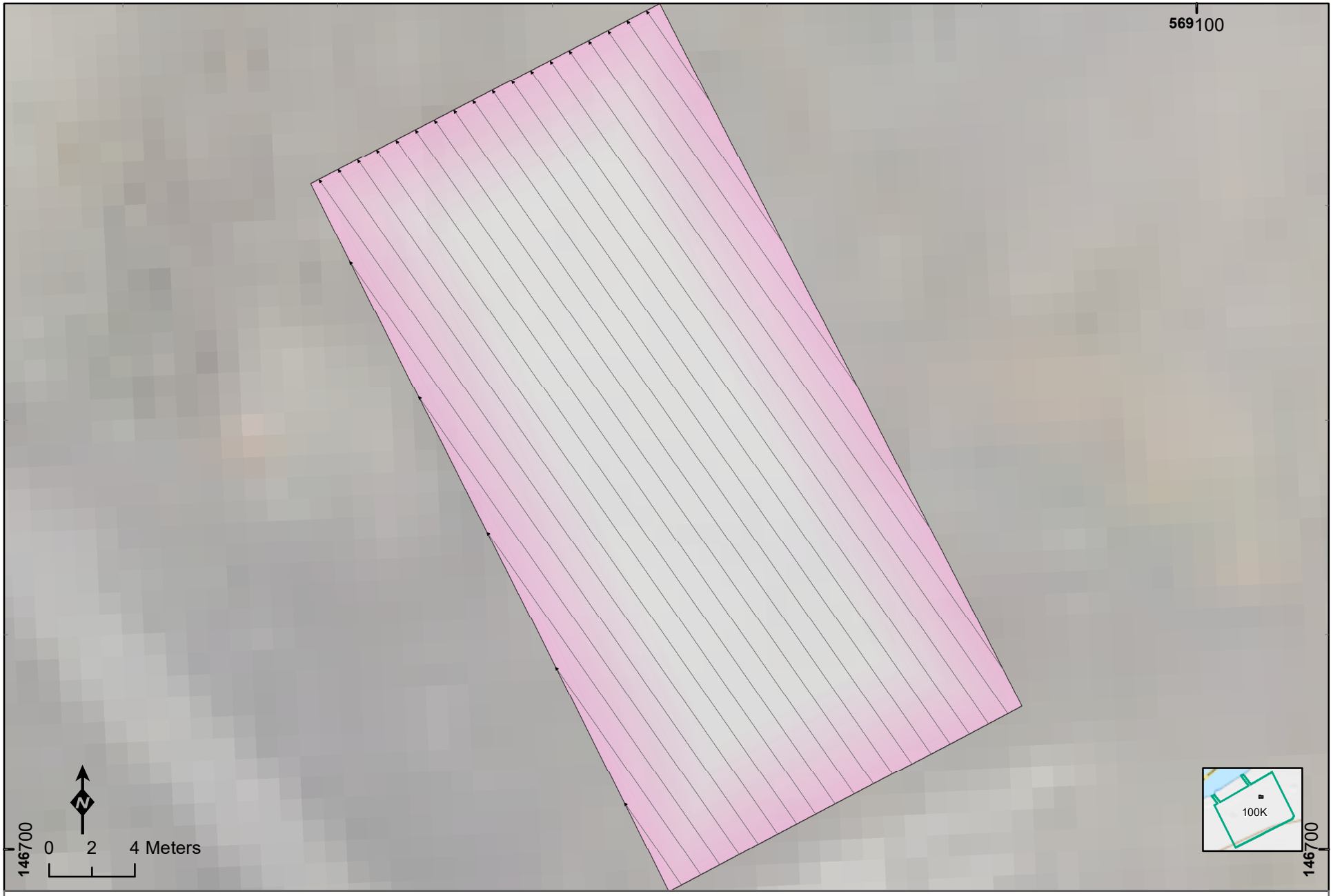
Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
122.2	**72.6**	**98**	**2.7**	**215.1**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-3

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
6.1	5.6	62	0.9	22.7

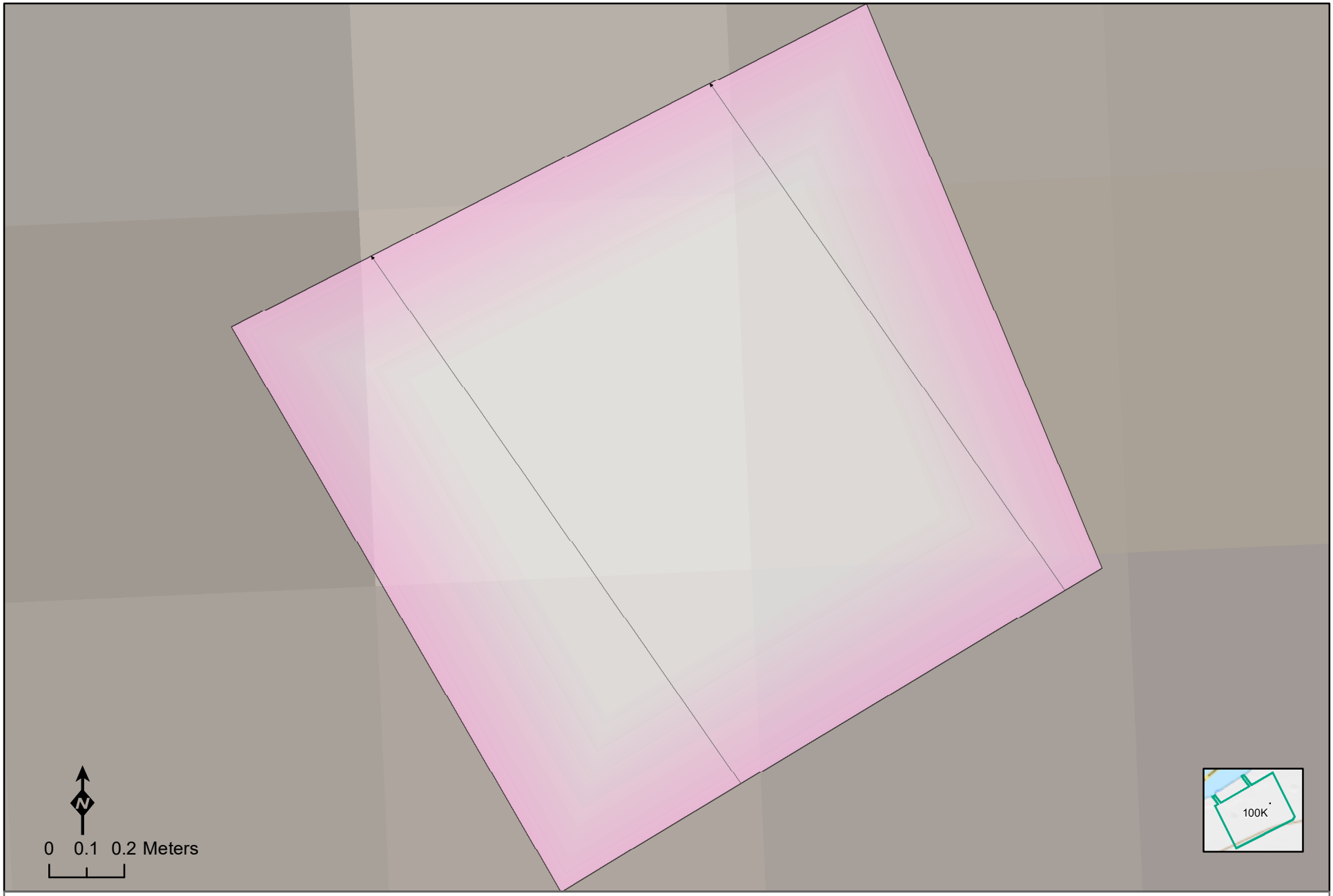


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-4

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
29.5	**11.1**	**23**	**4.7**	**37.2**

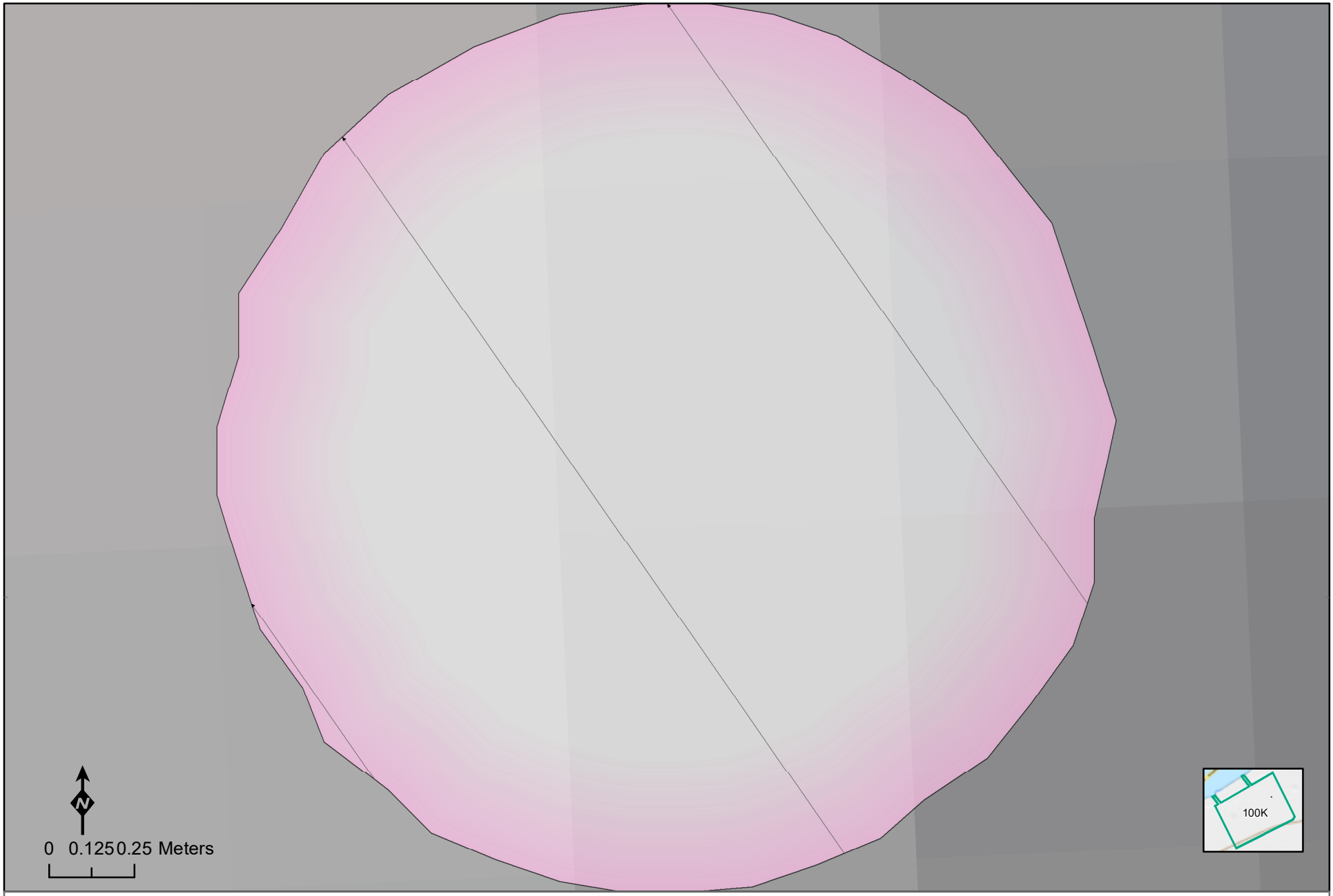


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-5

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.7	**0.0**	**2**	**1.6**	**1.7**

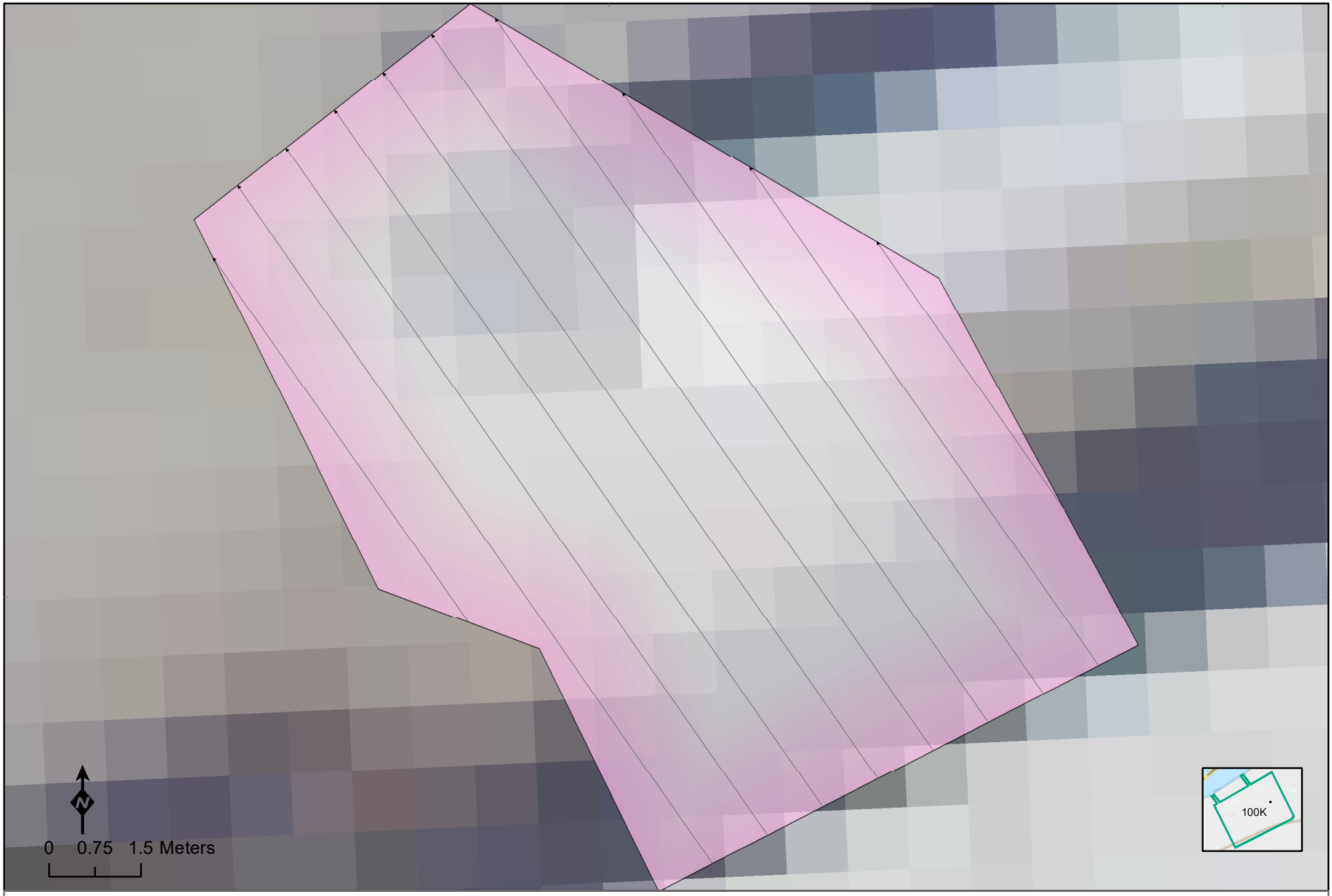


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-6

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.8	**0.8**	**3**	**0.6**	**2.6**



Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-7

Intersected Flow Vectors Statistics

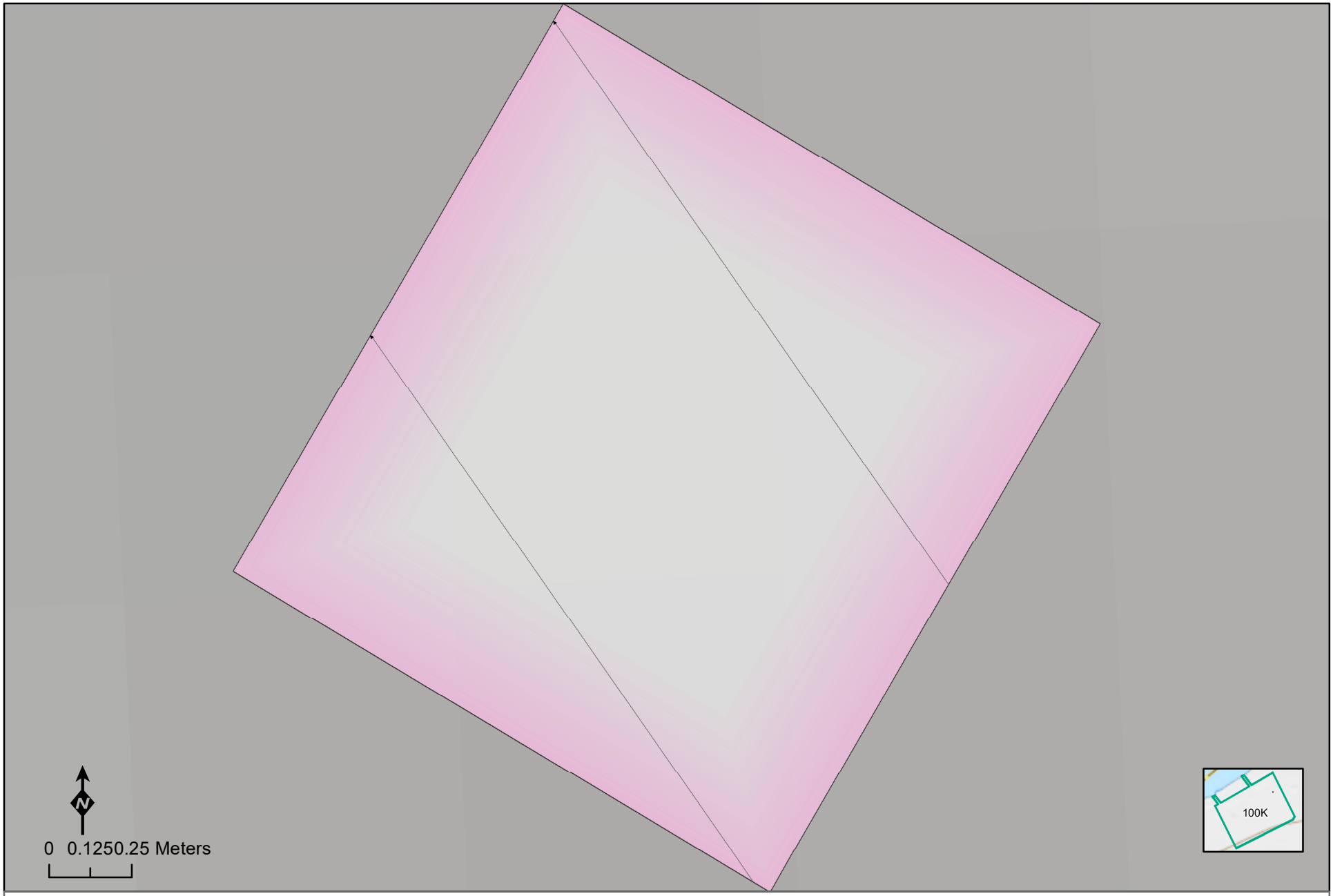
Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
11.8	**3.0**	**10**	**5.3**	**14.2**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-8

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
11.8	**4.5**	**13**	**1.9**	**14.9**

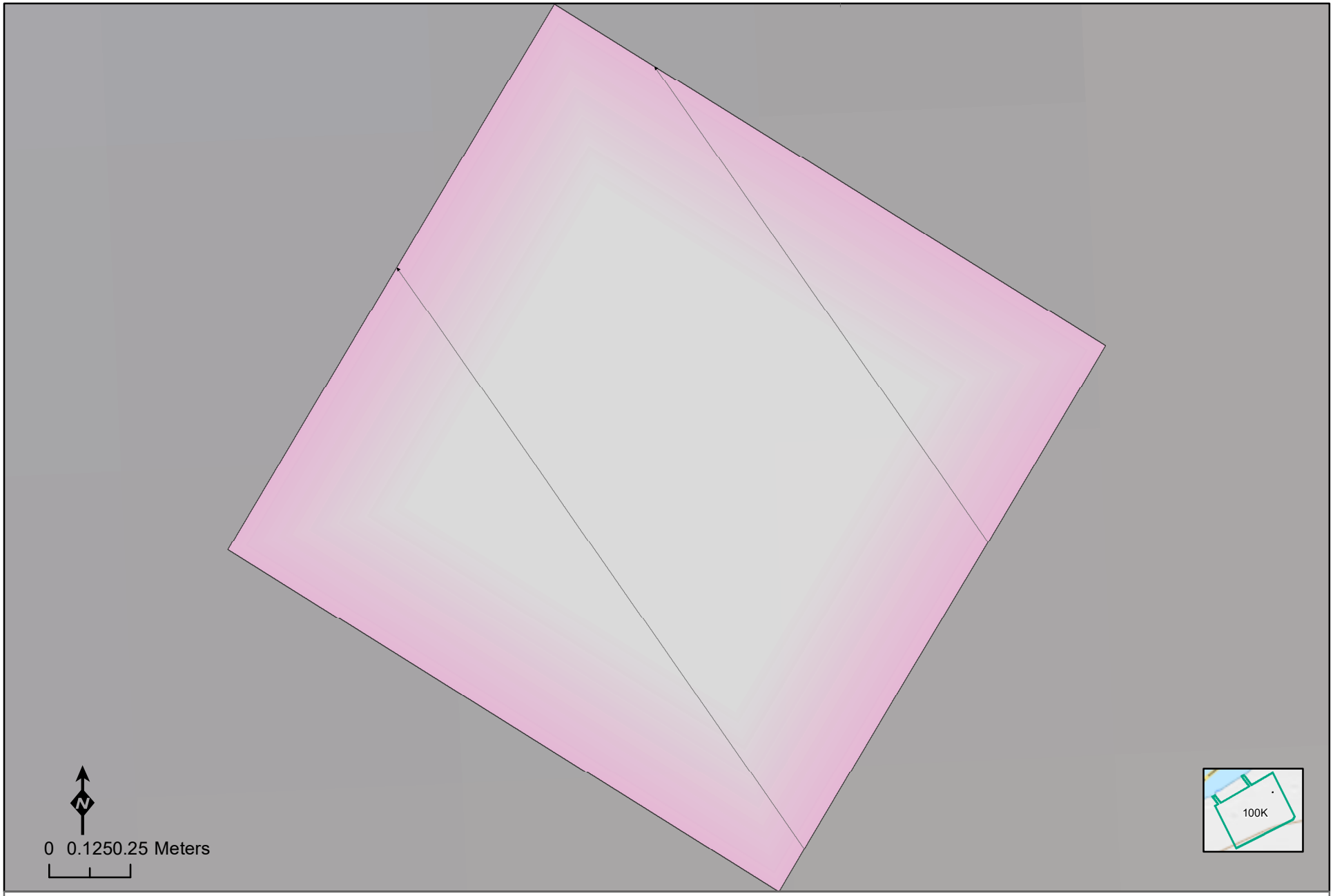


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-9

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
2.1	**0.0**	**2**	**2.0**	**2.1**

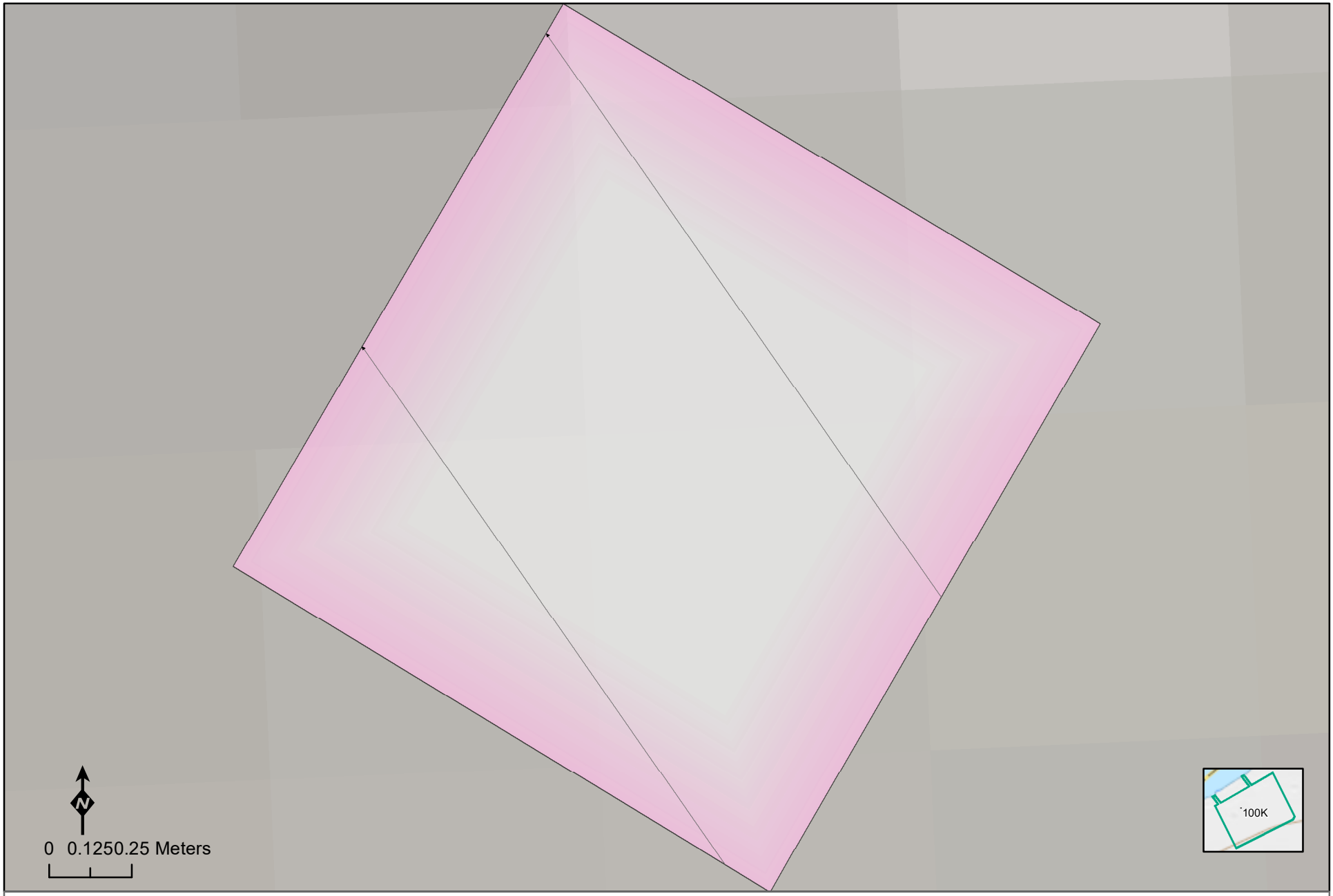


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-10

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
2.0	**0.2**	**2**	**1.8**	**2.2**

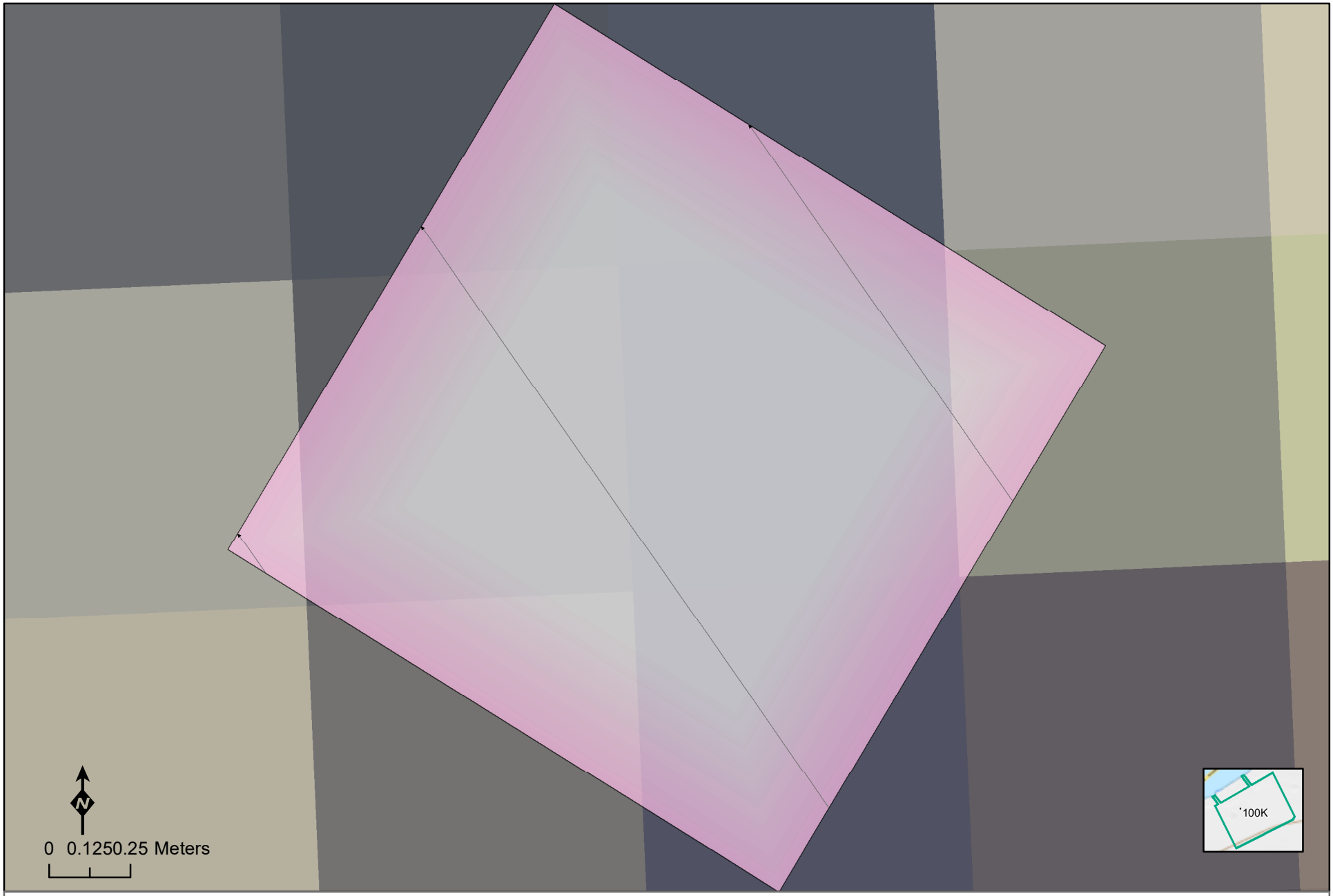


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-11

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
2.0	**0.1**	**2**	**1.9**	**2.1**

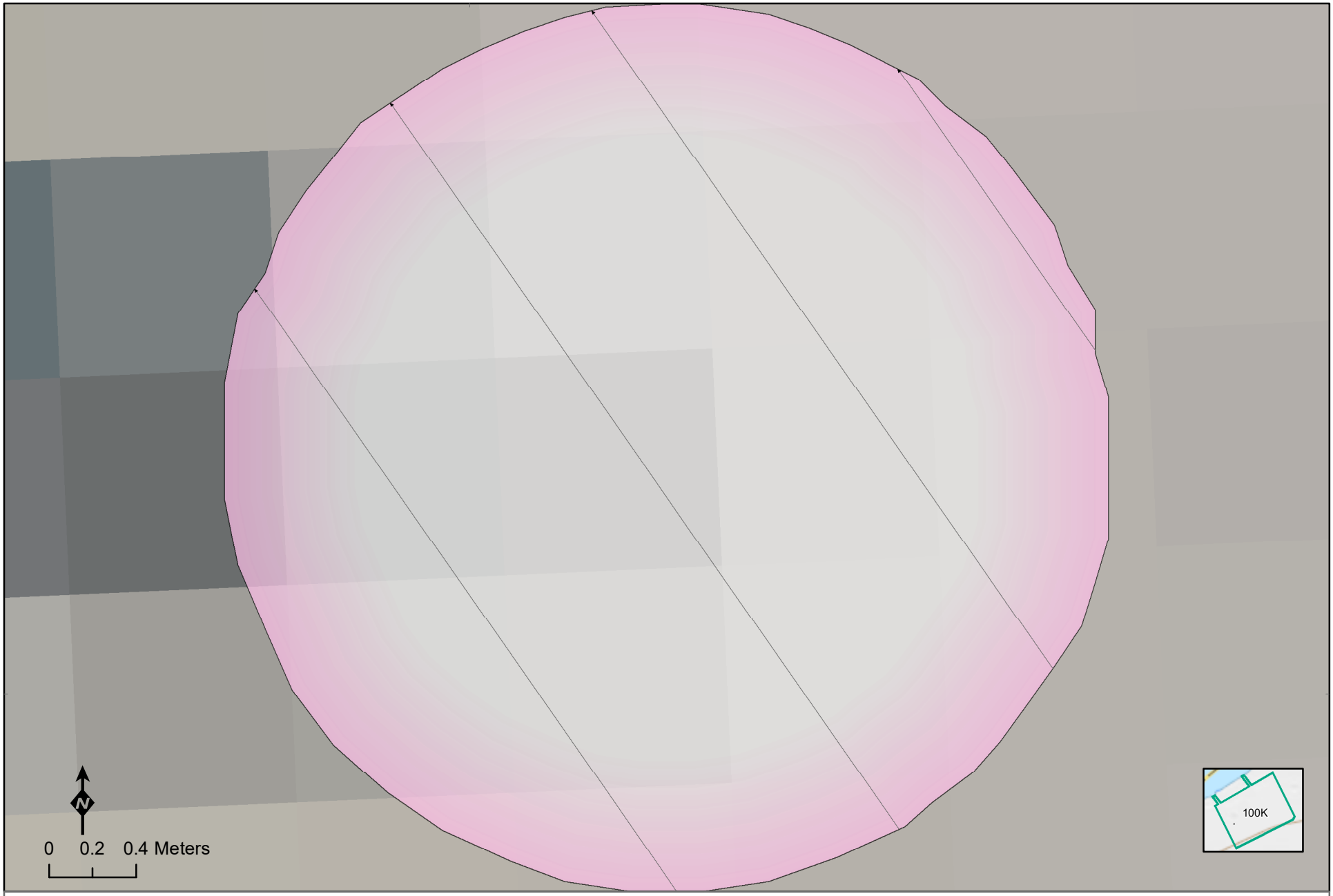


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-12

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.2	**0.8**	**3**	**0.1**	**2.2**

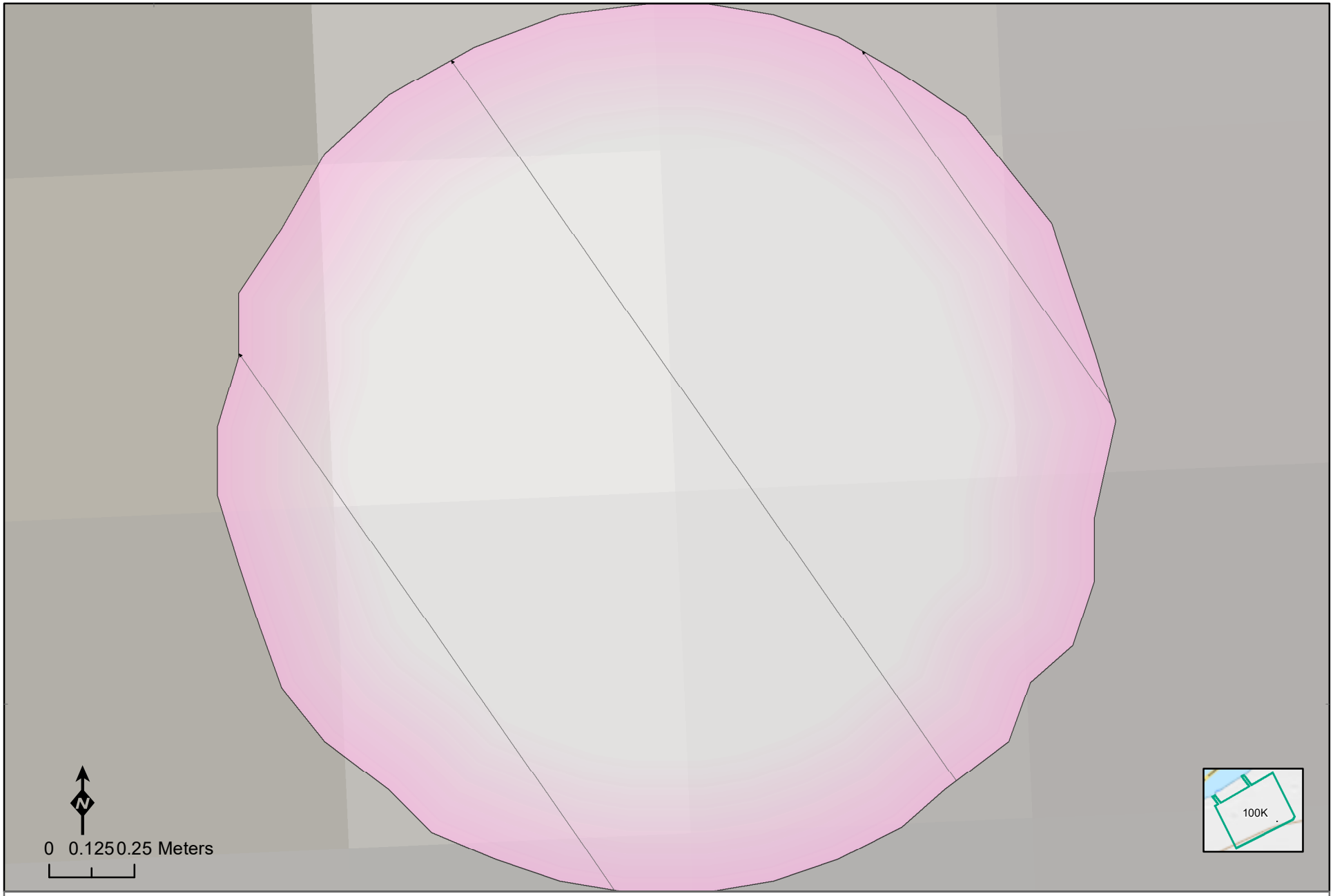


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-13

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
3.2	**1.0**	**4**	**1.6**	**4.1**

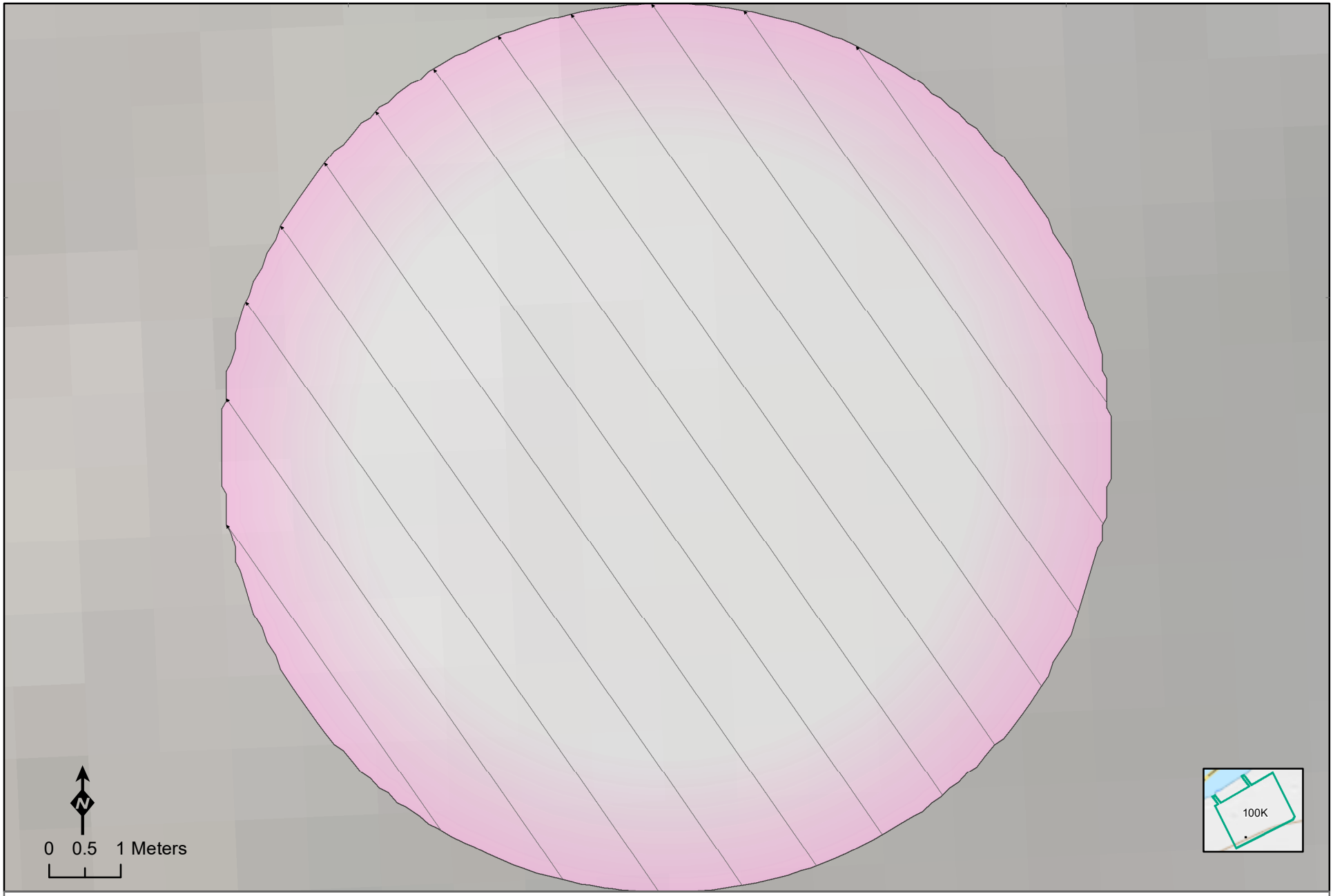


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-14

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.9	**0.5**	**3**	**1.3**	**2.6**

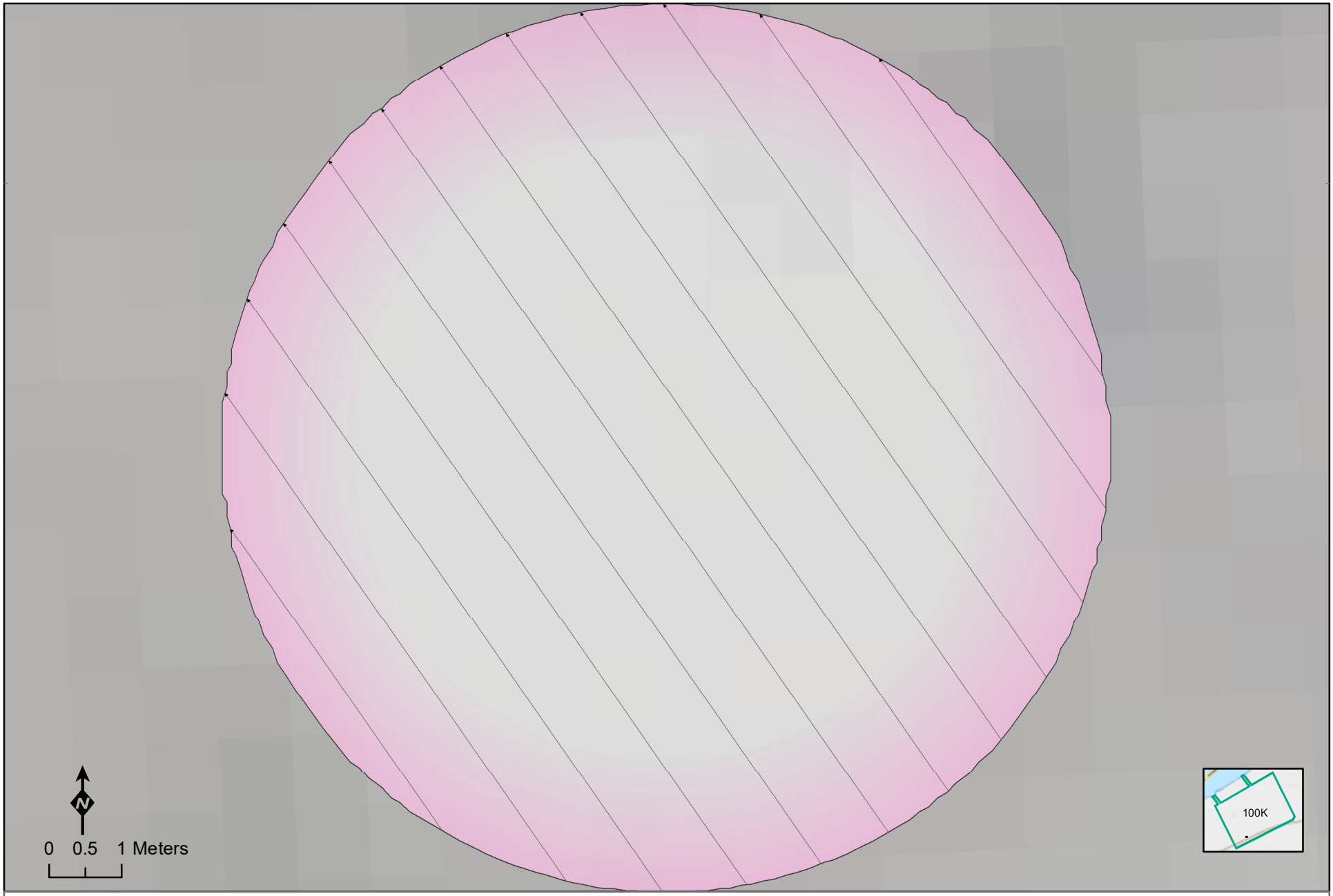


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-15

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
10.0	**2.3**	**12**	**5.2**	**12.4**

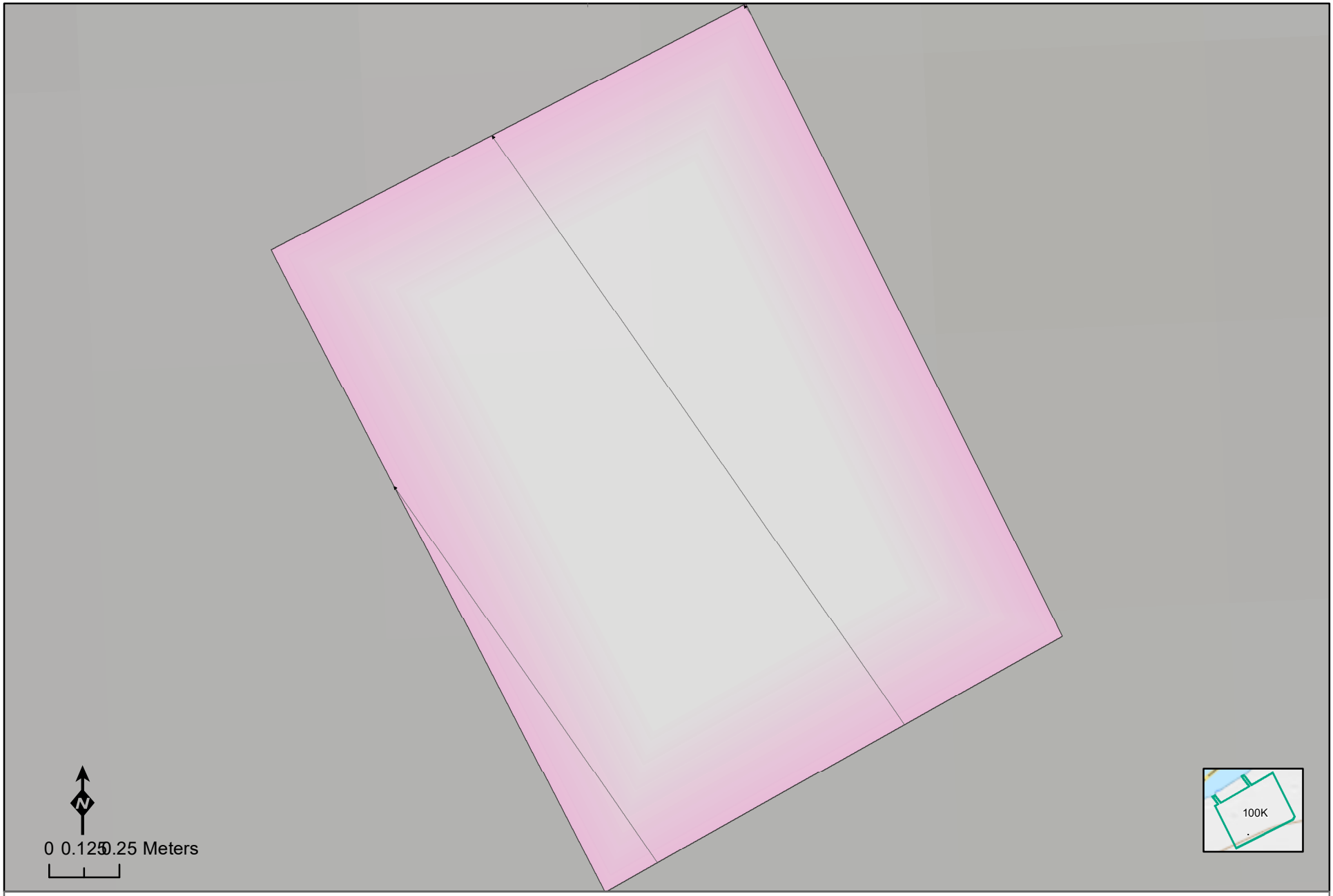


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-16

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
9.7	**2.4**	**12**	**5.1**	**12.2**

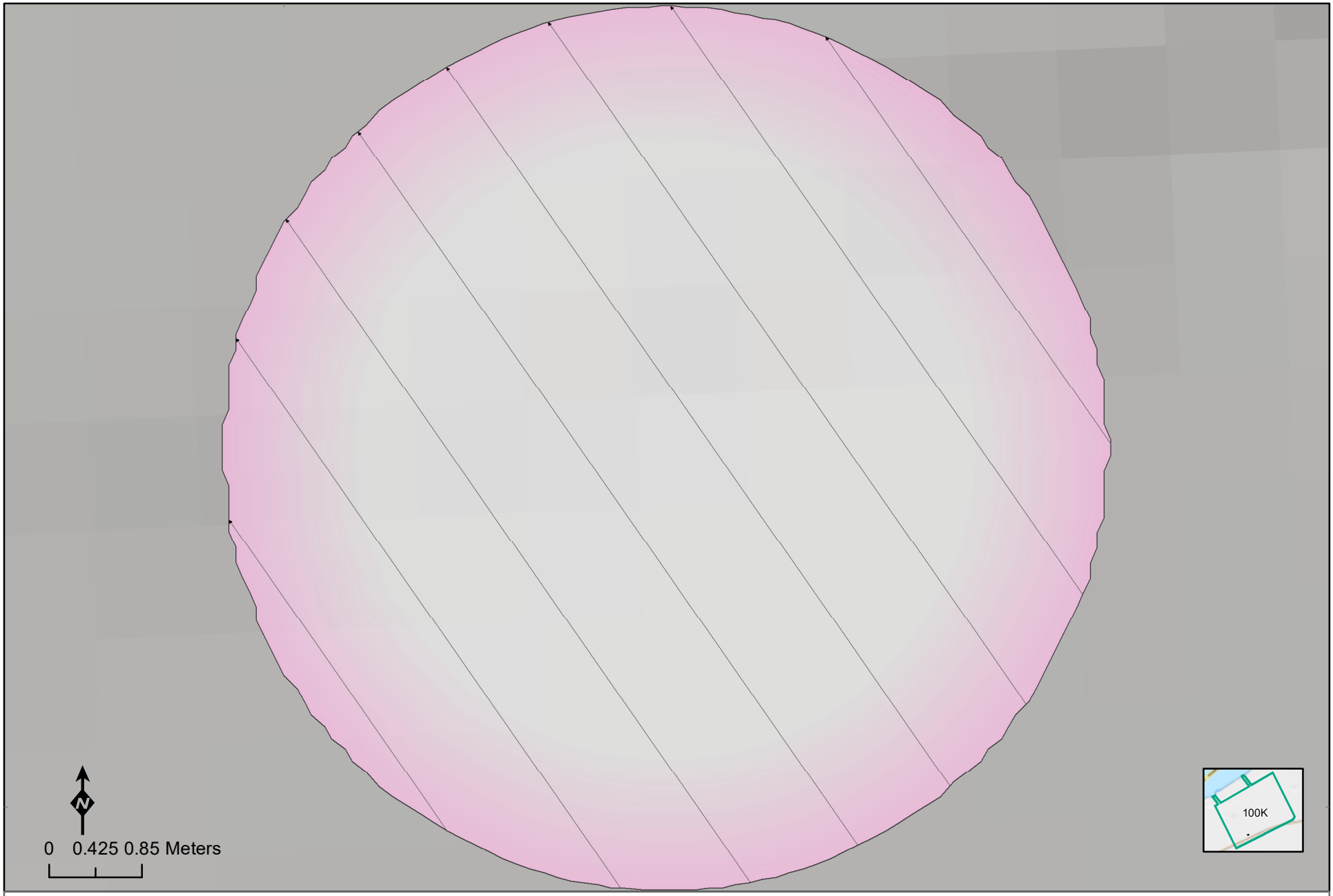


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-18

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.4	**1.0**	**3**	**0.1**	**2.6**

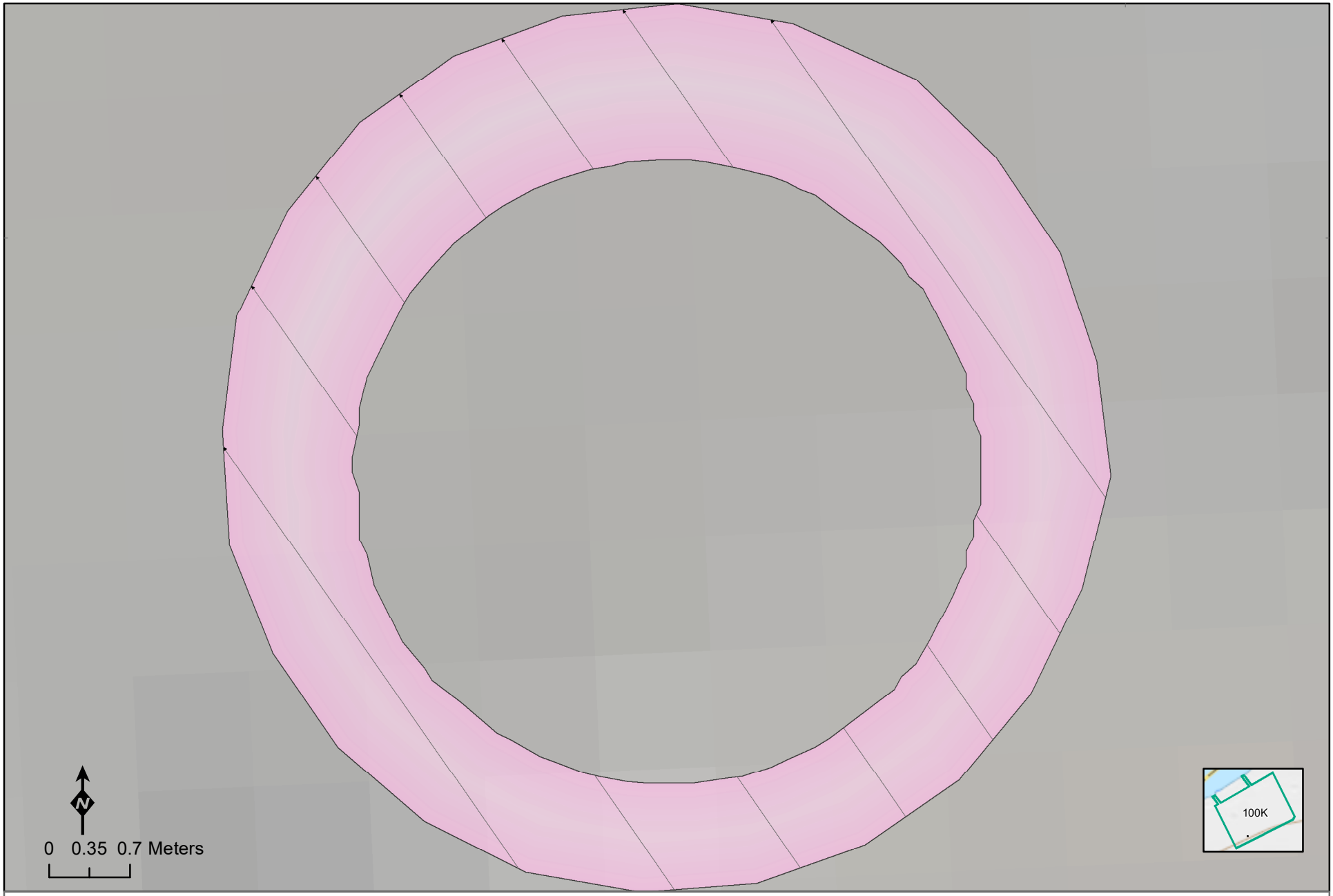


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-19

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
6.5	**1.6**	**8**	**3.5**	**8.0**

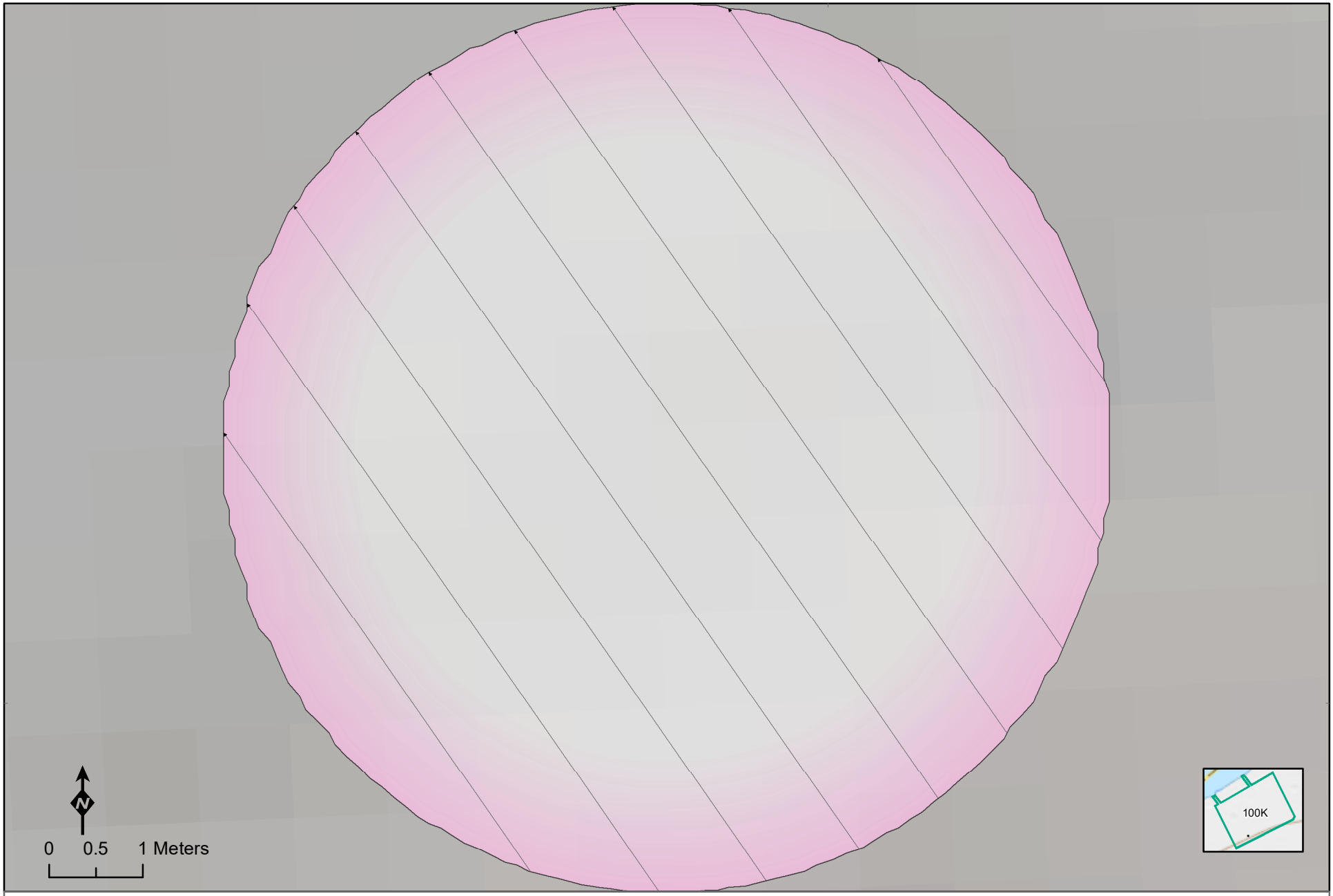


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-20

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
3.2	**1.0**	**7**	**2.2**	**5.1**

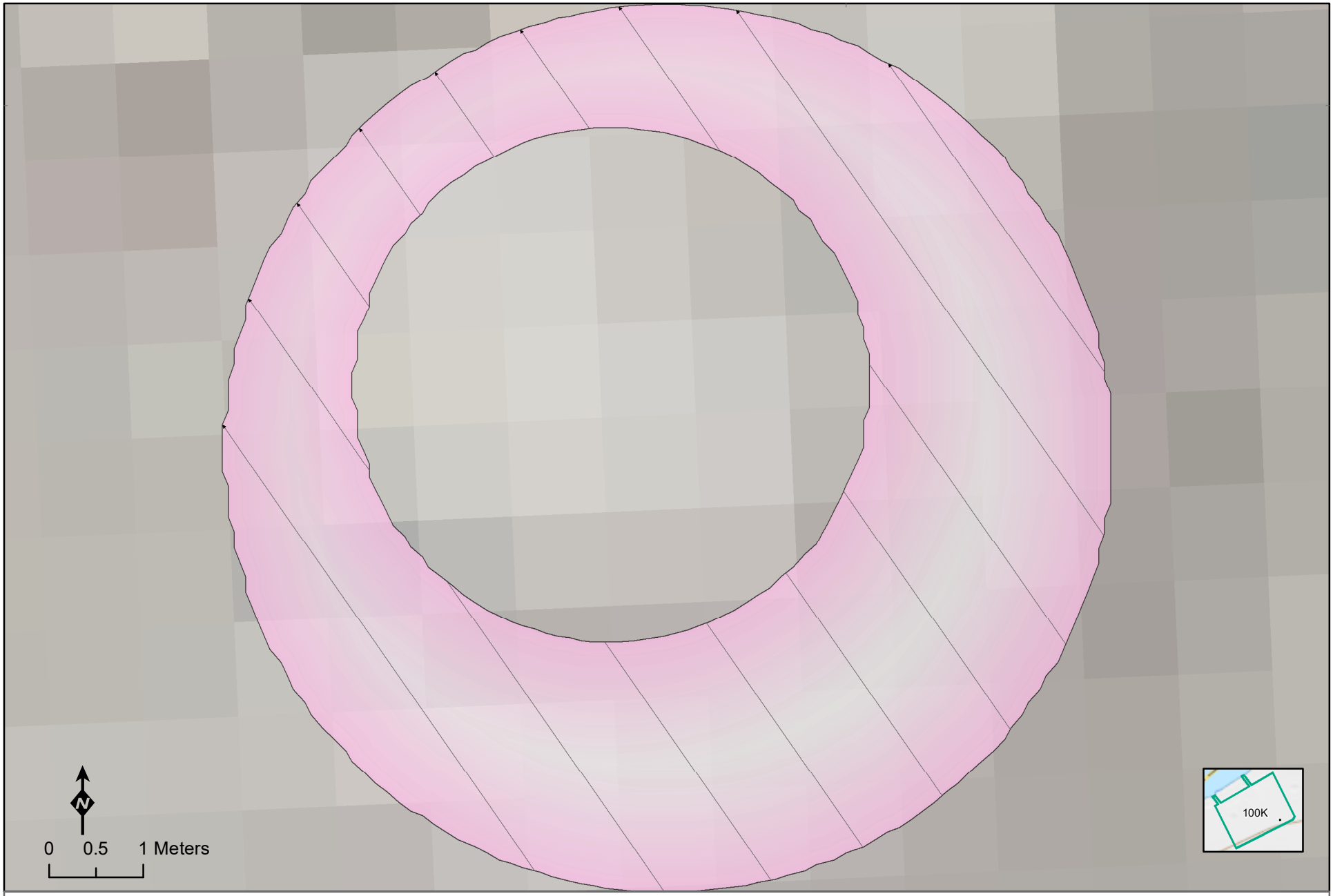


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-21

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
7.7	**1.7**	**9**	**4.2**	**9.5**

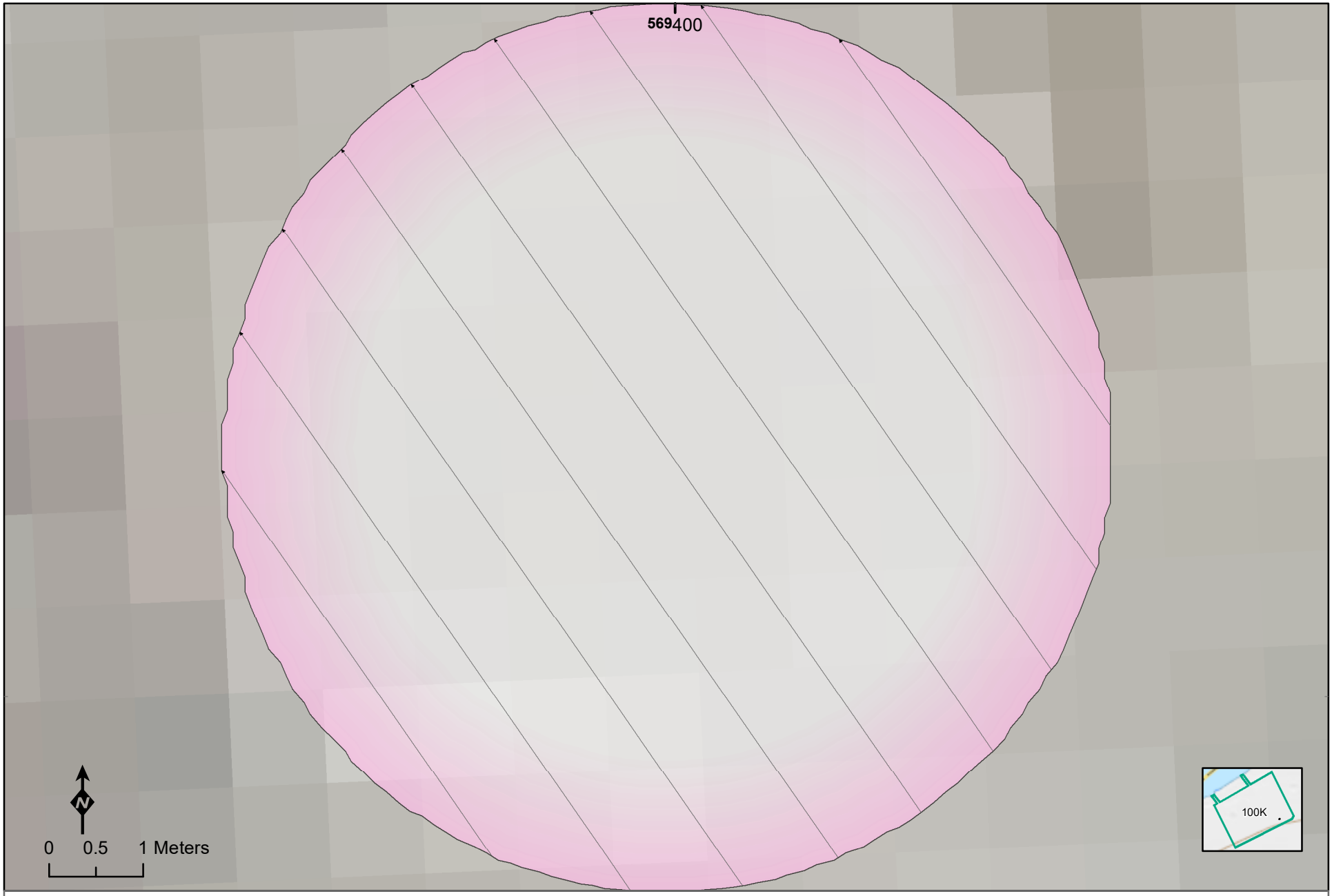


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-22

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
5.0	**1.0**	**9**	**4.0**	**6.8**

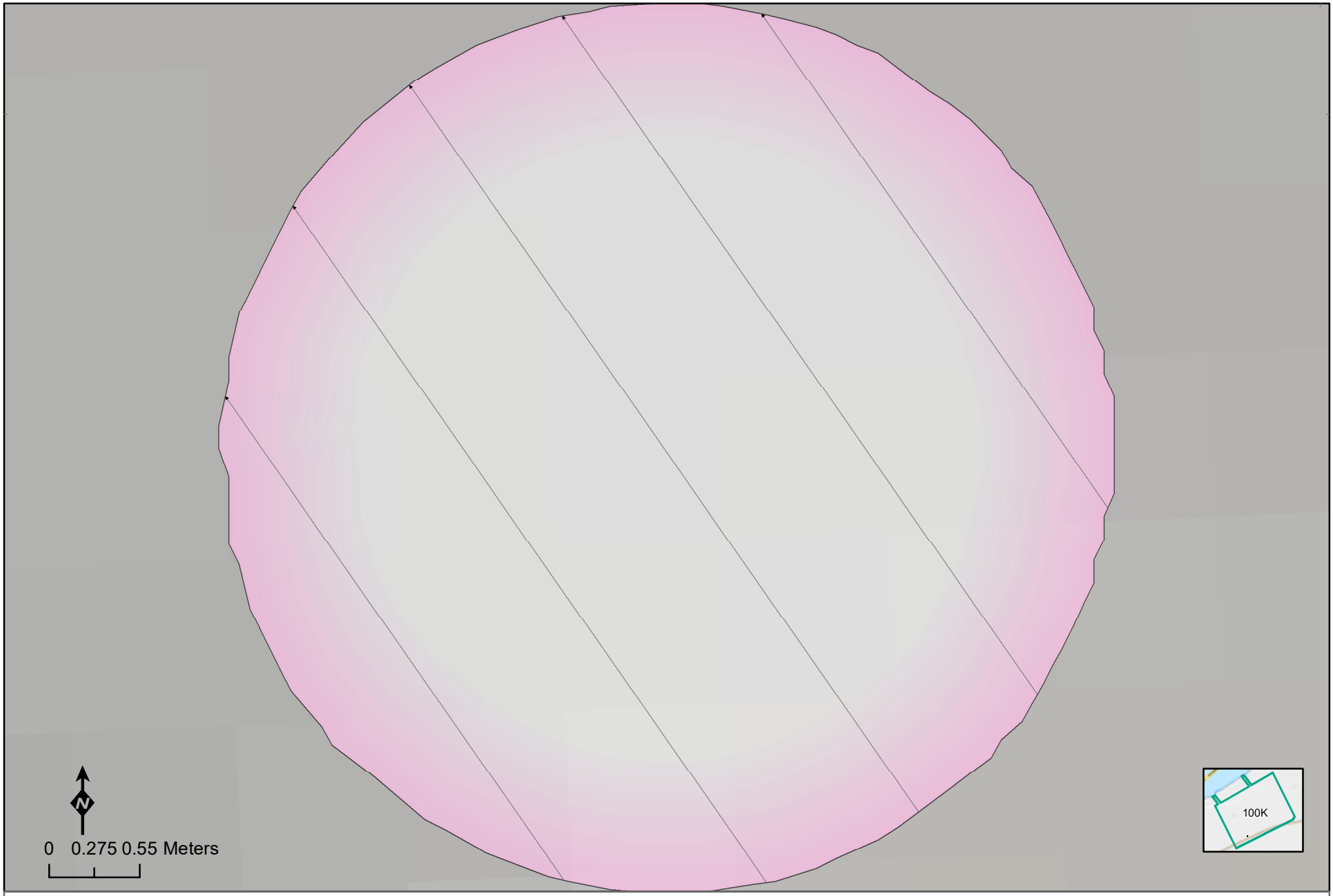


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-23

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
7.7	**1.6**	**9**	**5.0**	**9.4**

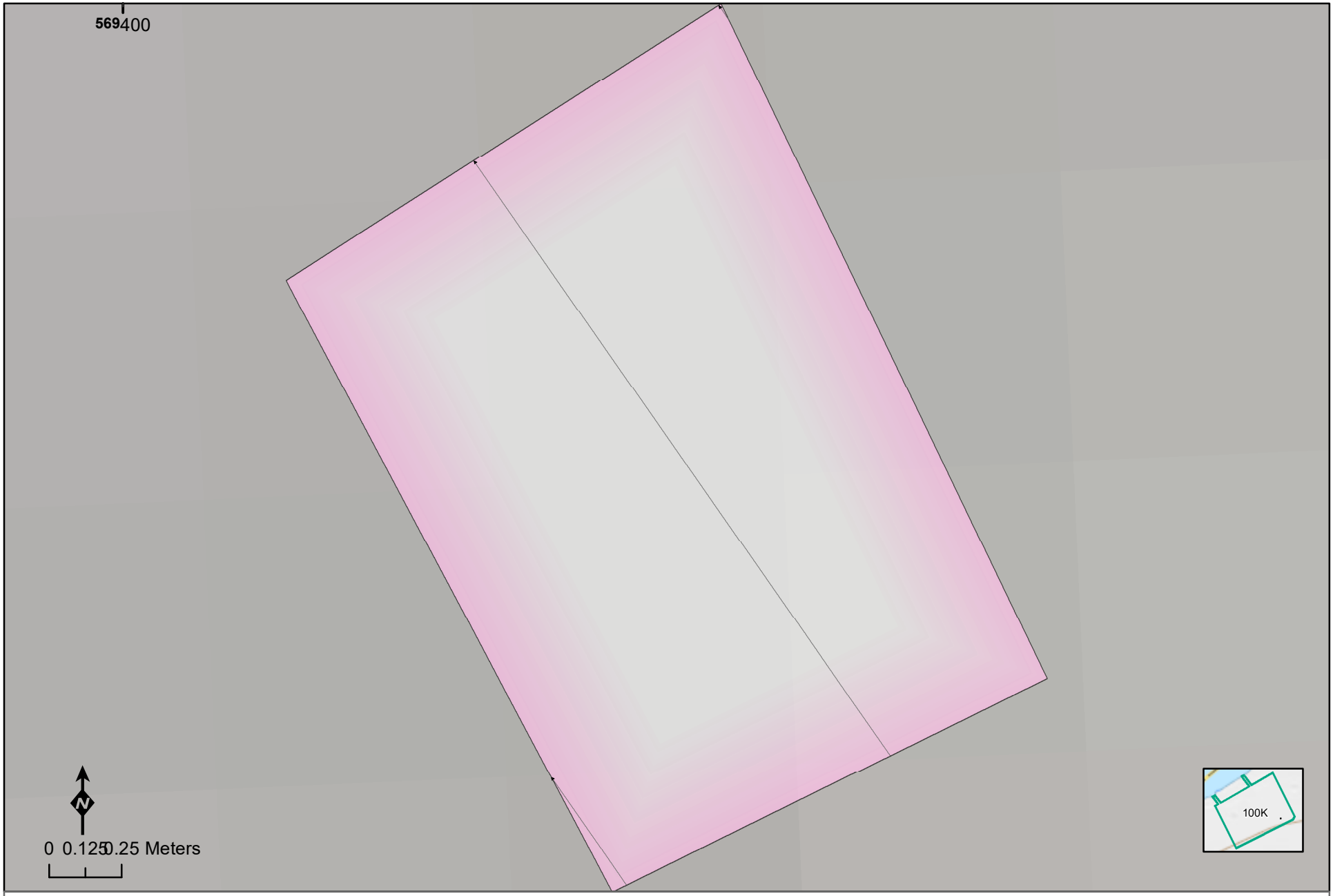


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-24

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
4.5	**0.8**	**5**	**3.6**	**5.4**

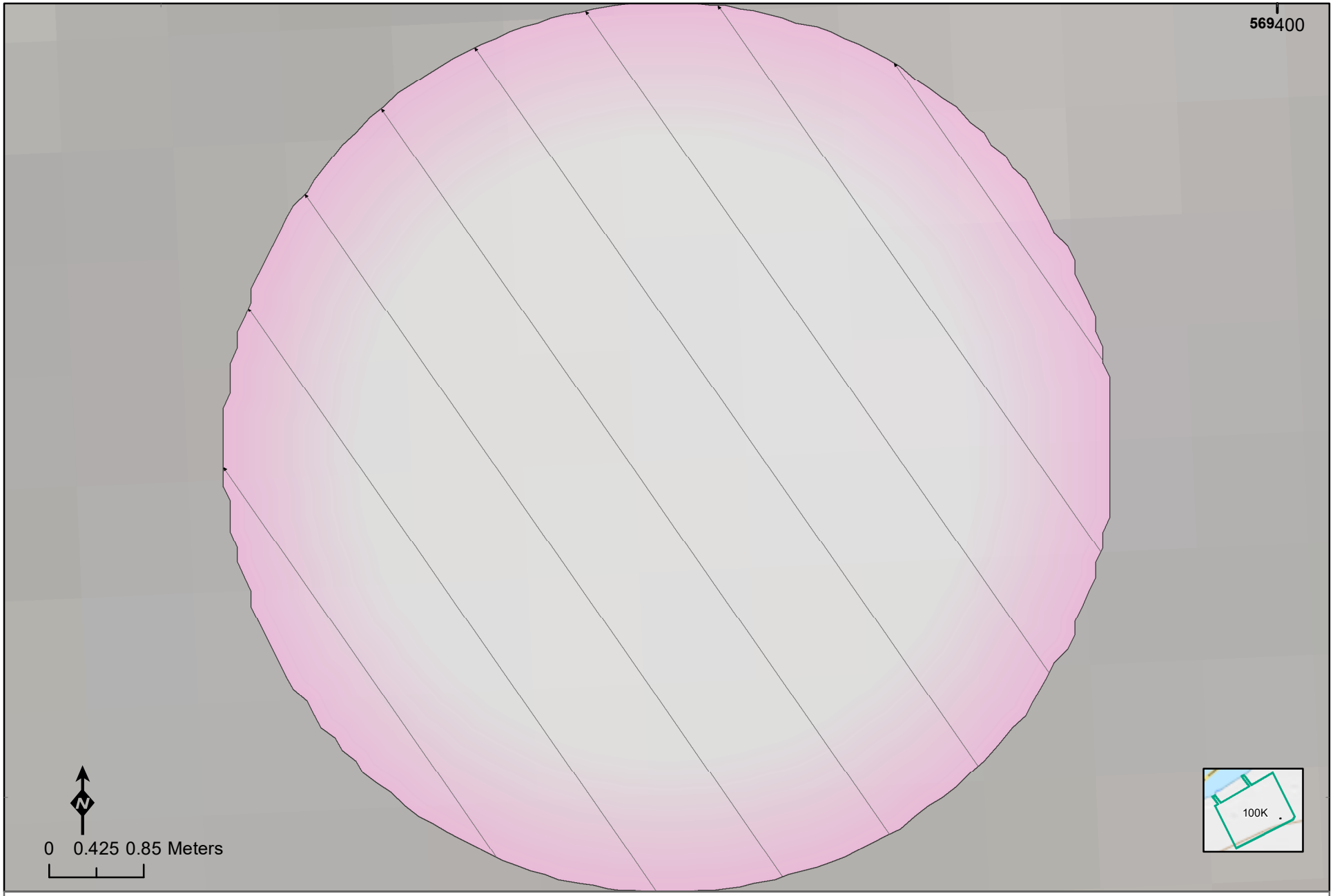


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-25

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.0	**1.1**	**3**	**0.1**	**2.5**

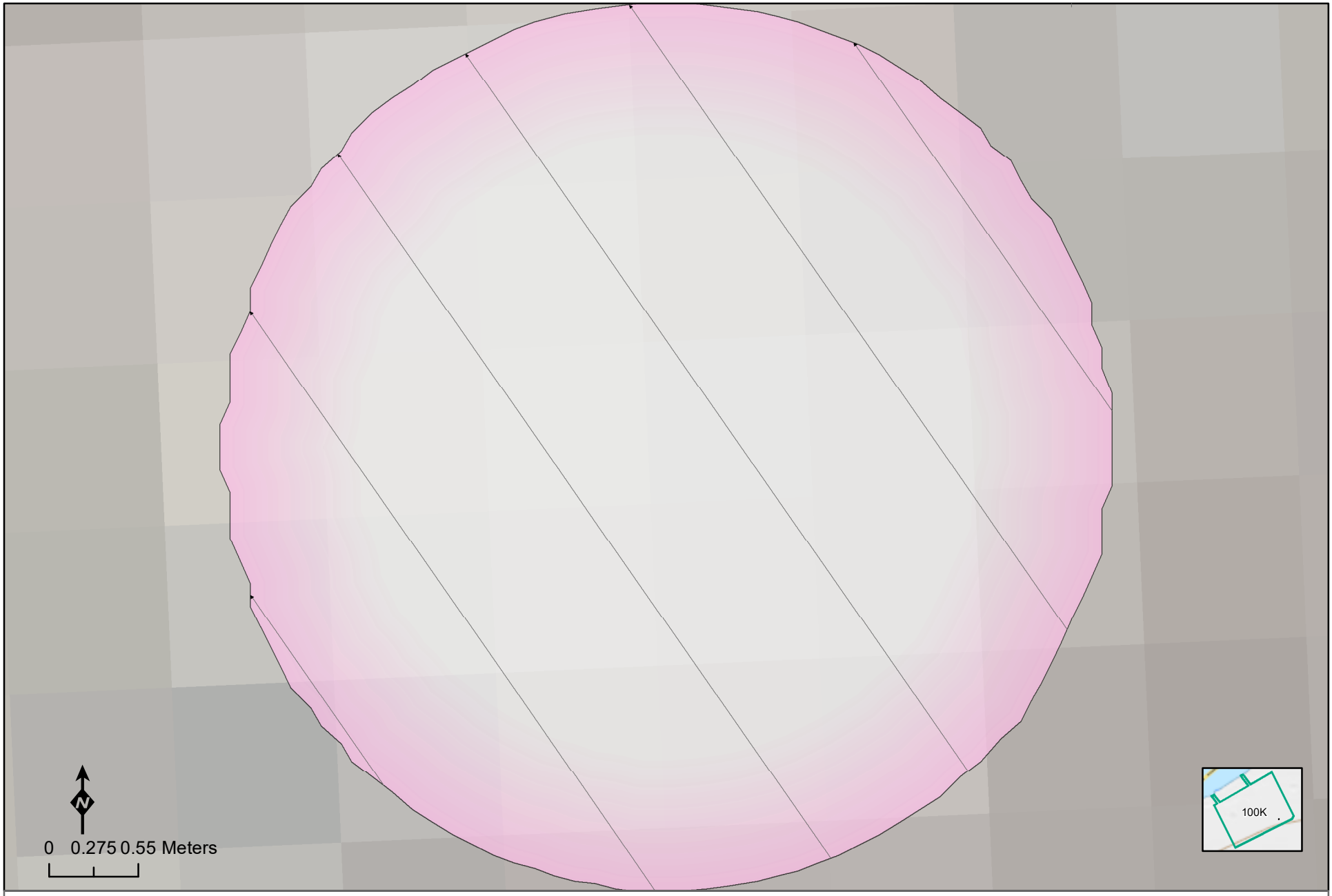


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-27

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
6.3	1.6	8	3.3	7.9

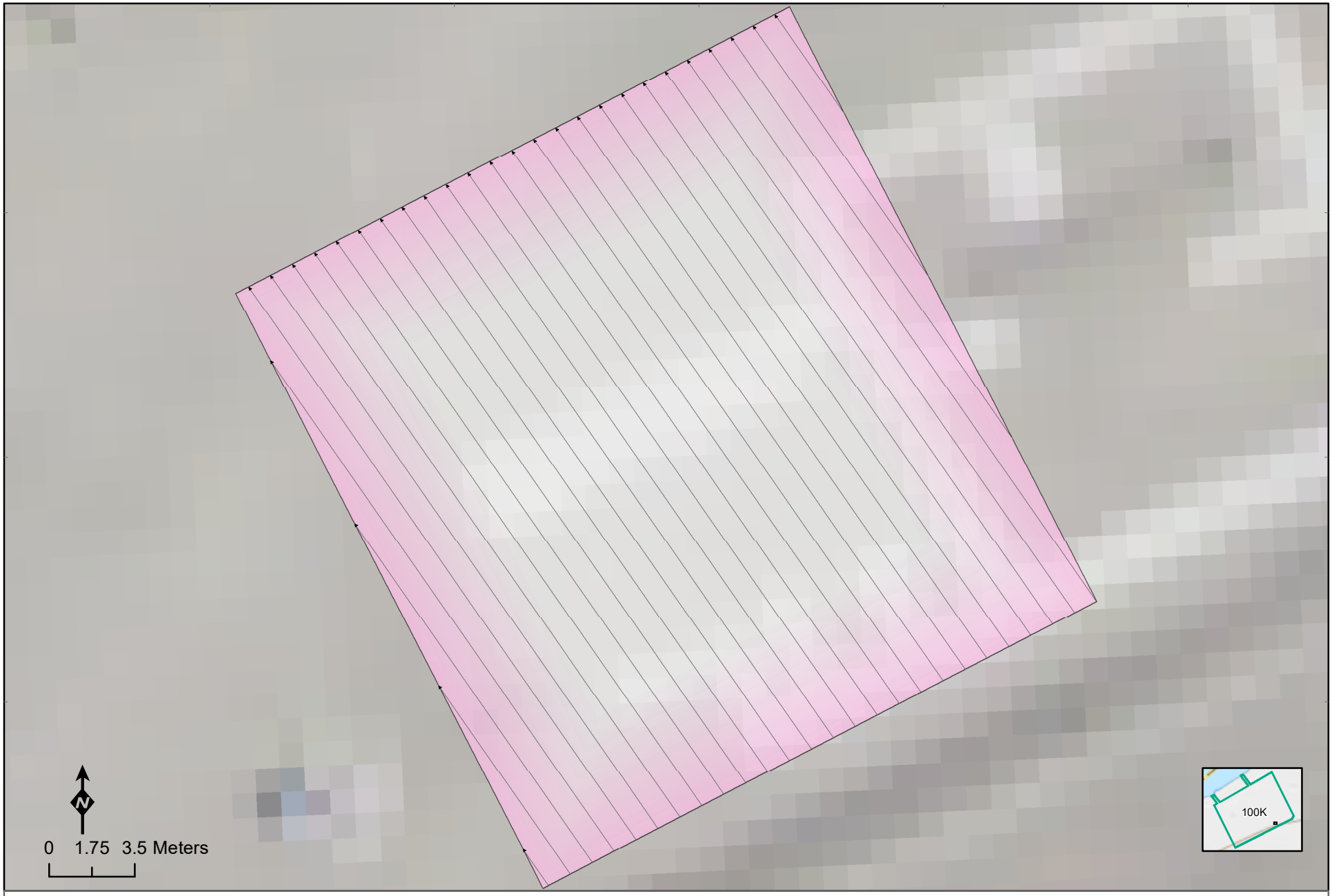


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-28

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
4.0	**1.4**	**6**	**1.4**	**5.4**

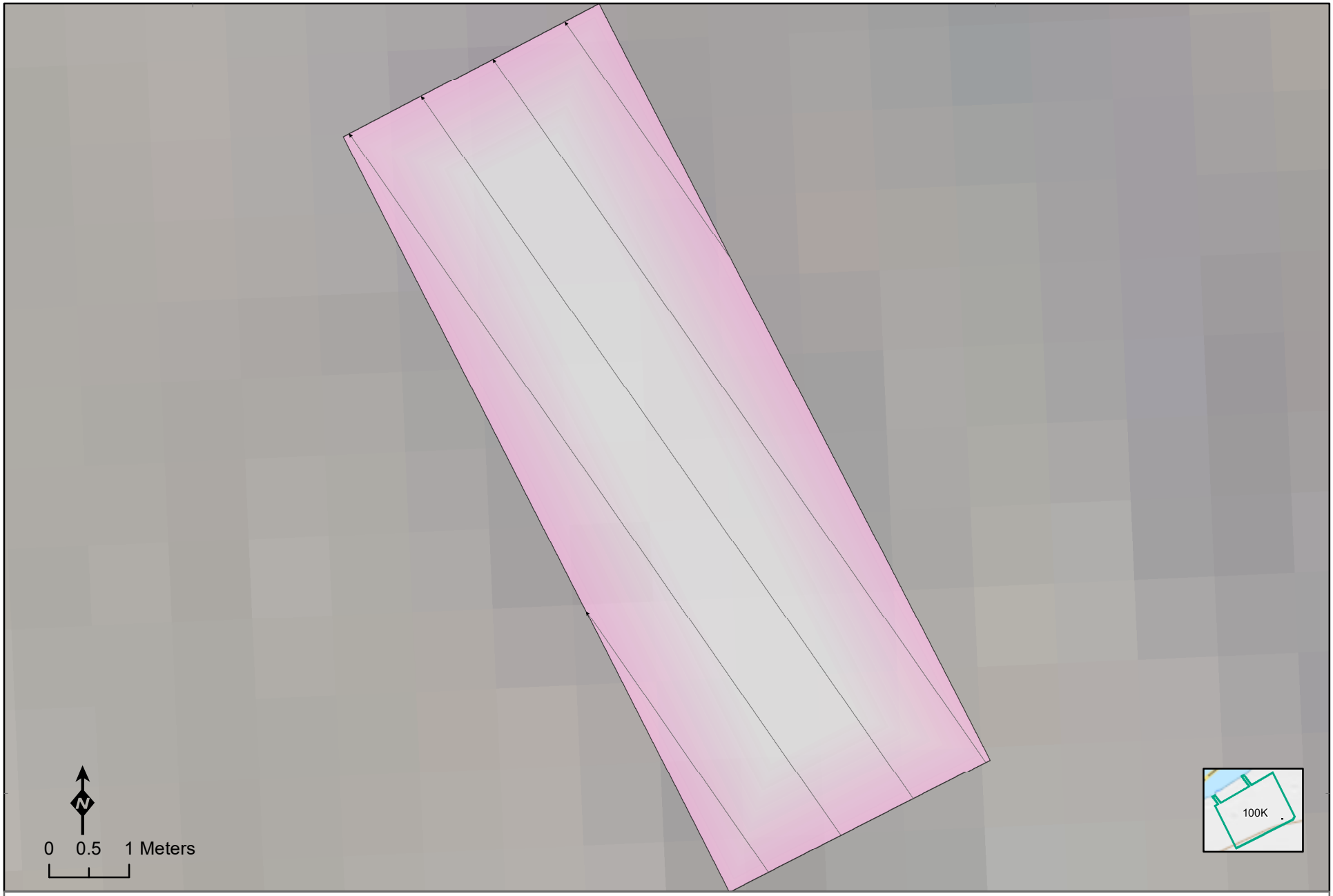


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-29

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
24.1	**7.3**	**29**	**1.8**	**27.6**

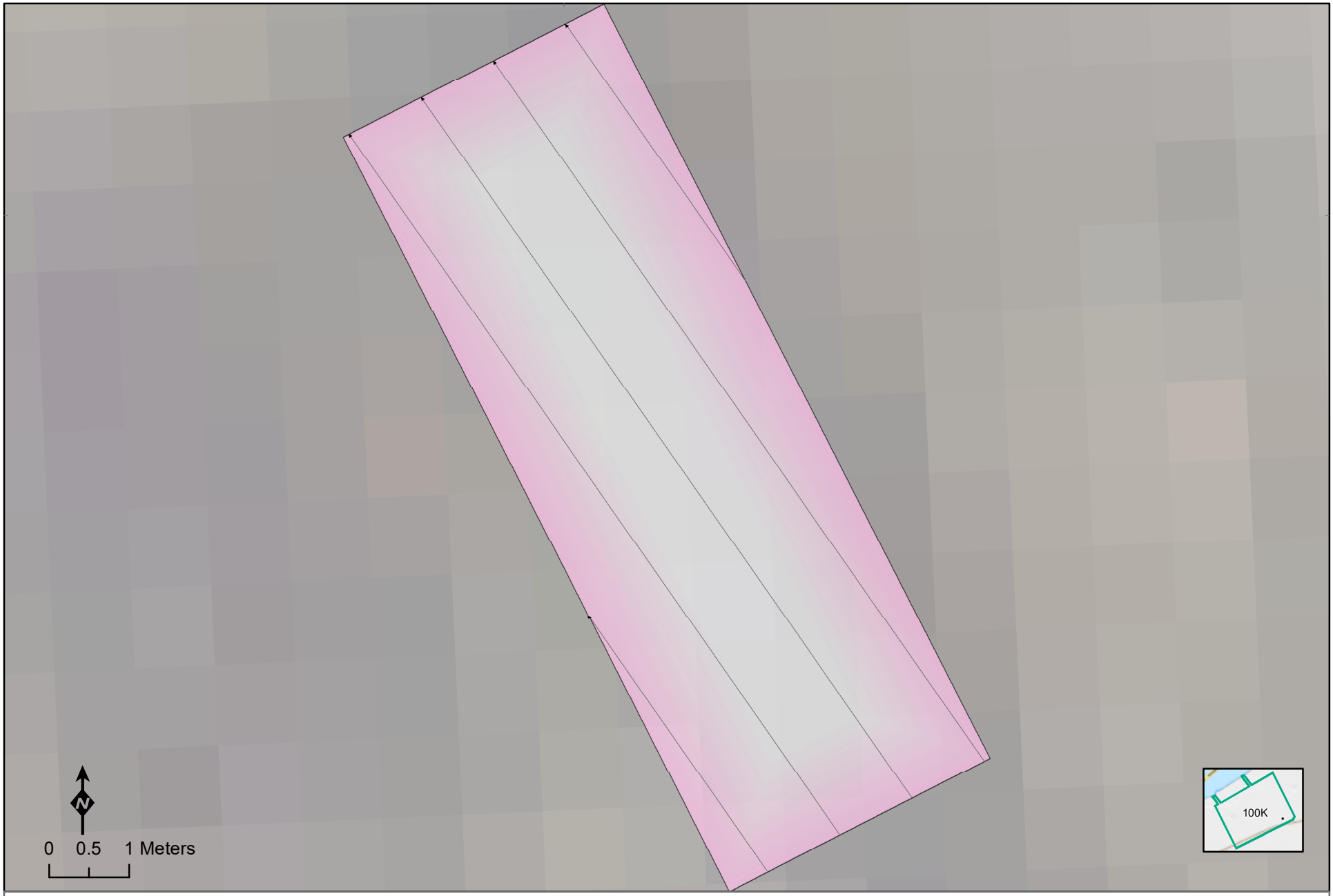


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-30

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
7.9	**3.4**	**5**	**3.6**	**10.7**

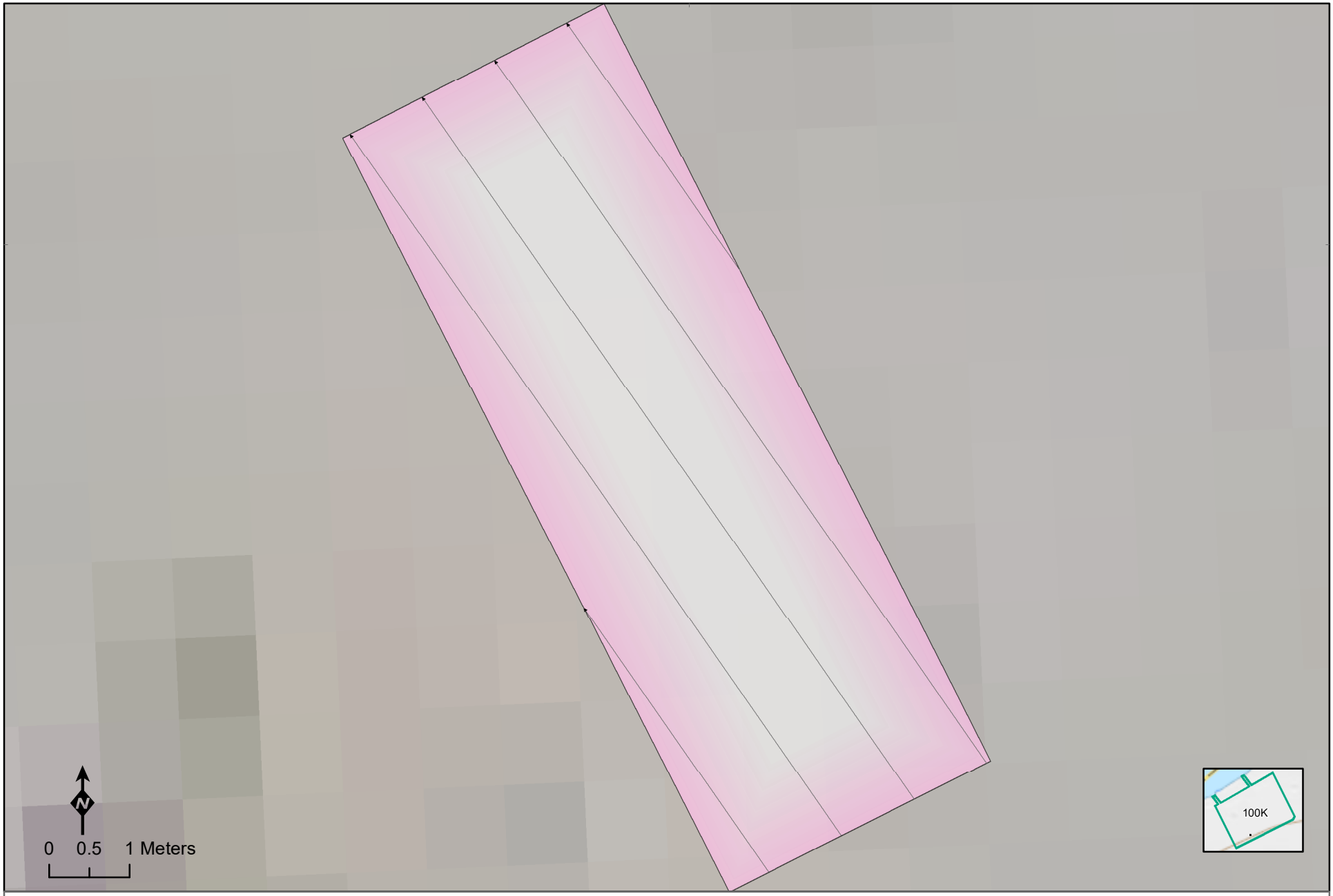


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-31

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
8.0	**3.3**	**5**	**3.9**	**10.7**

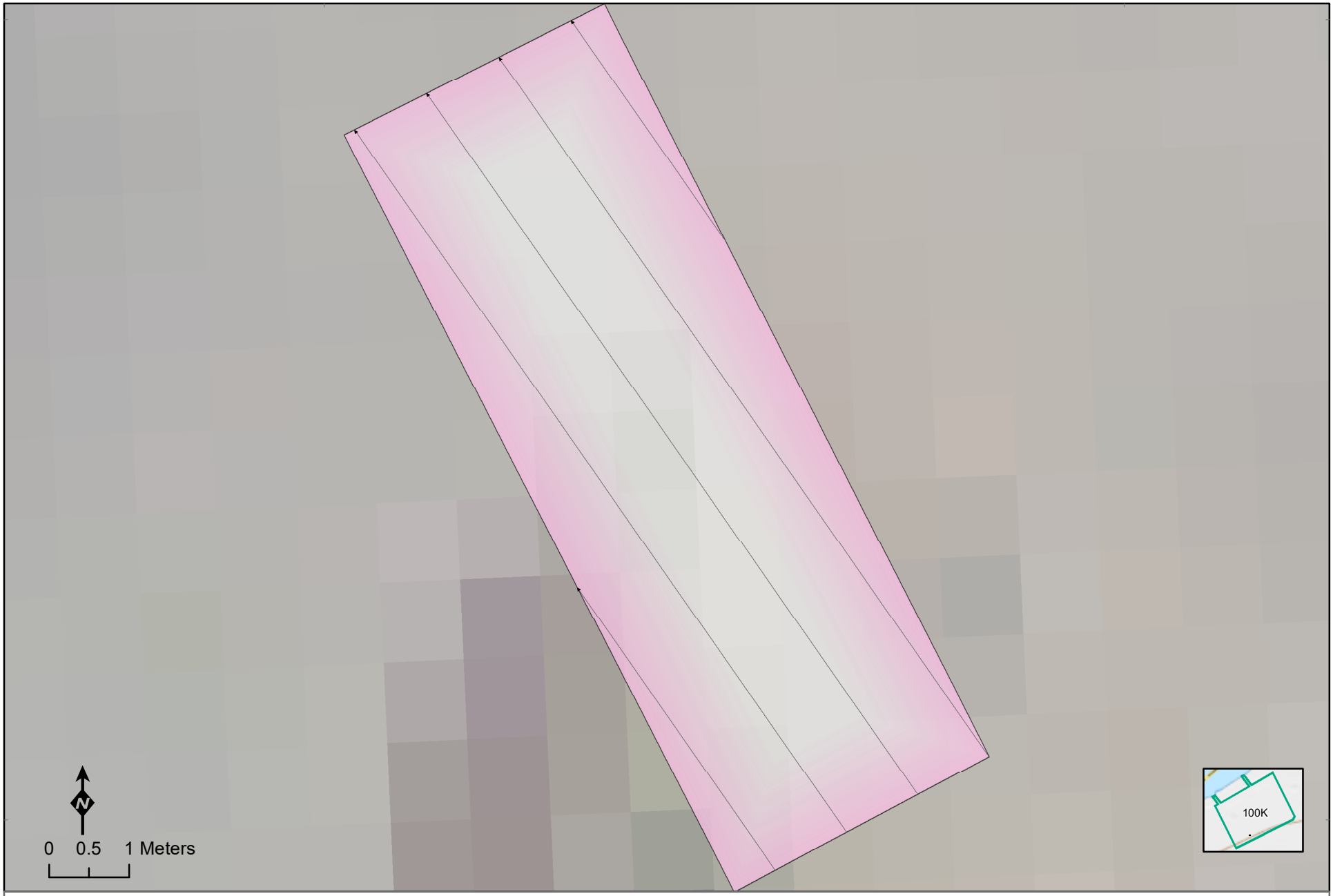


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-32

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
8.0	**3.3**	**5**	**3.8**	**10.7**

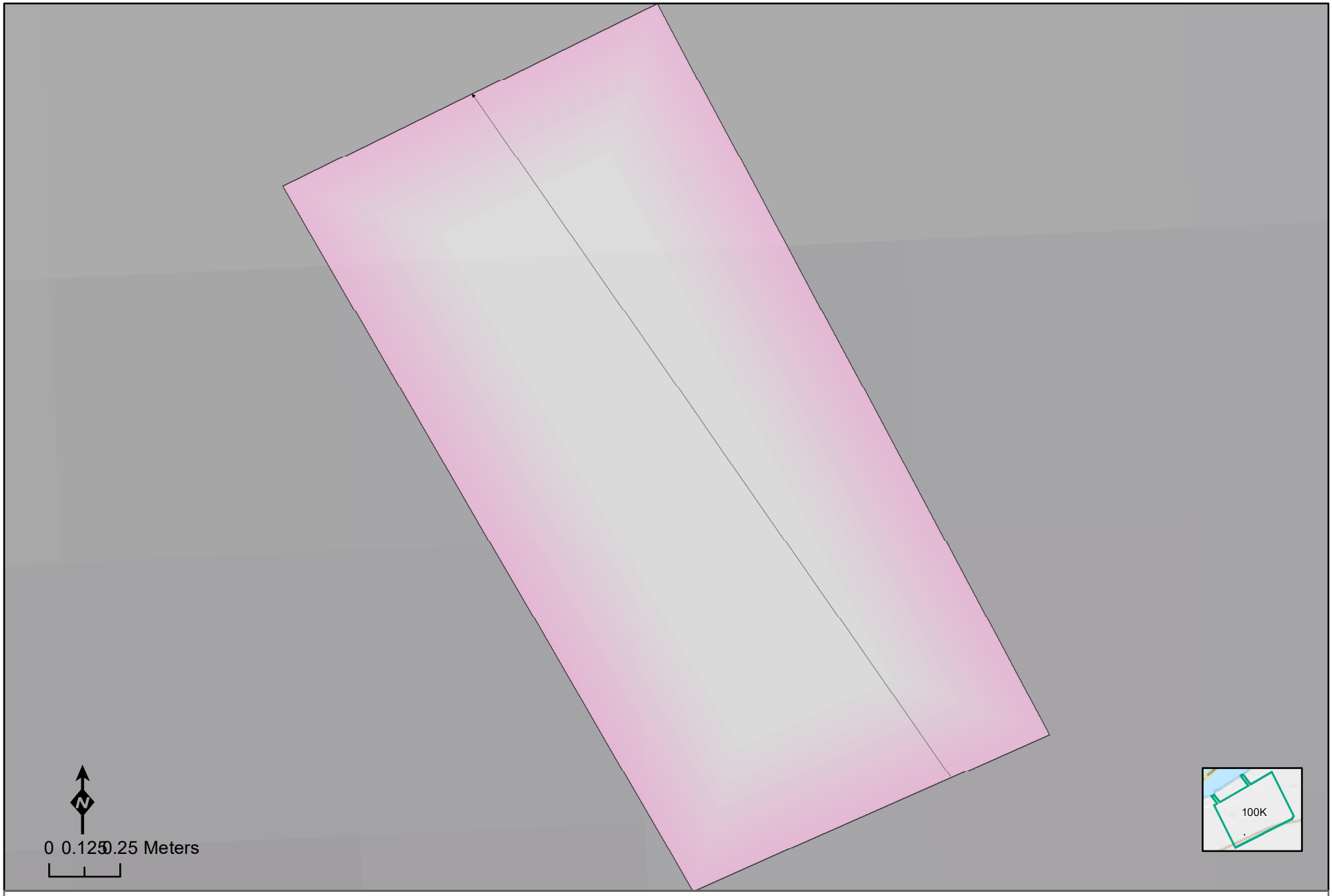


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-33

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
8.0	**3.4**	**5**	**3.4**	**10.7**

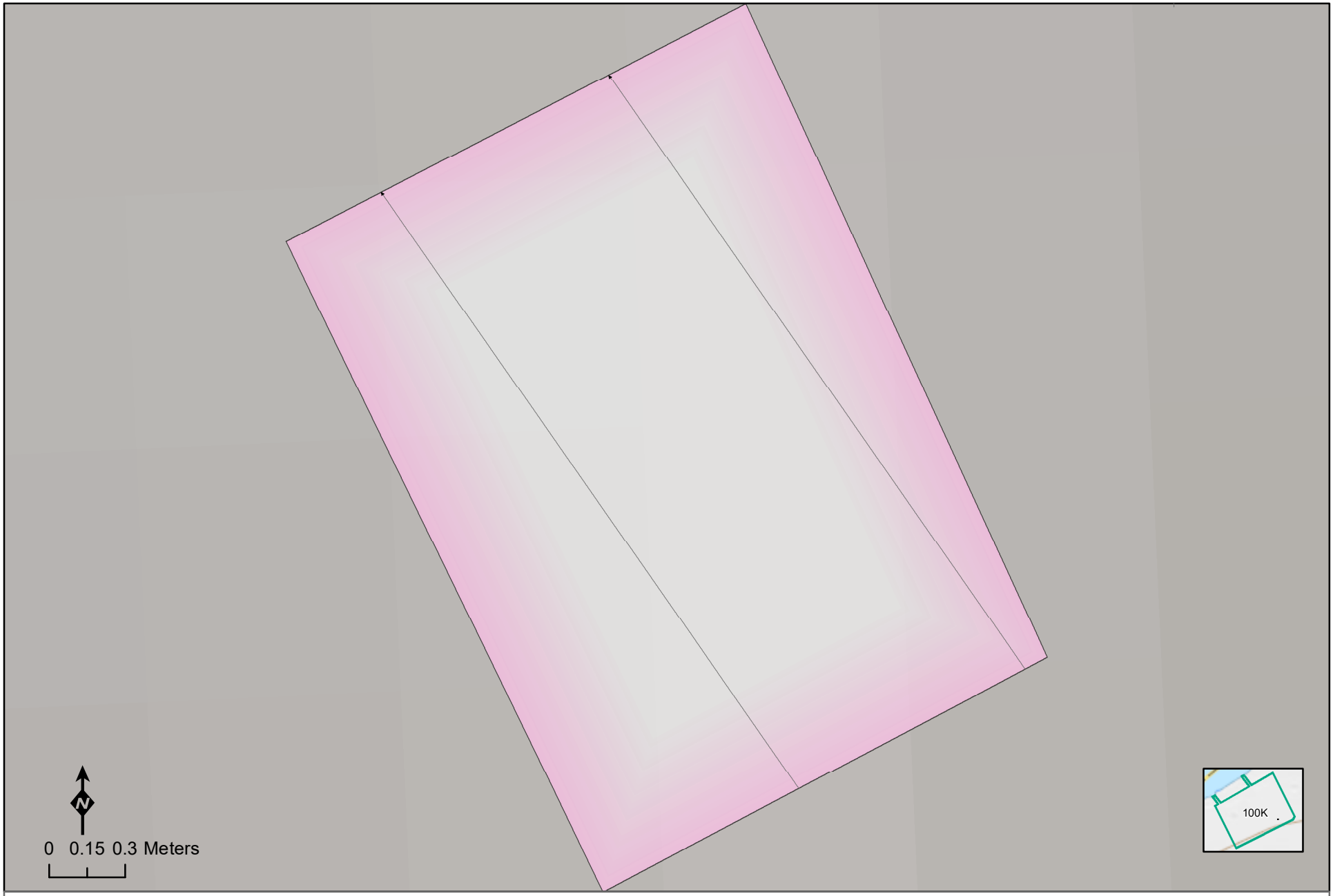


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-34

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
2.9	**0.0**	**1**	**2.9**	**2.9**

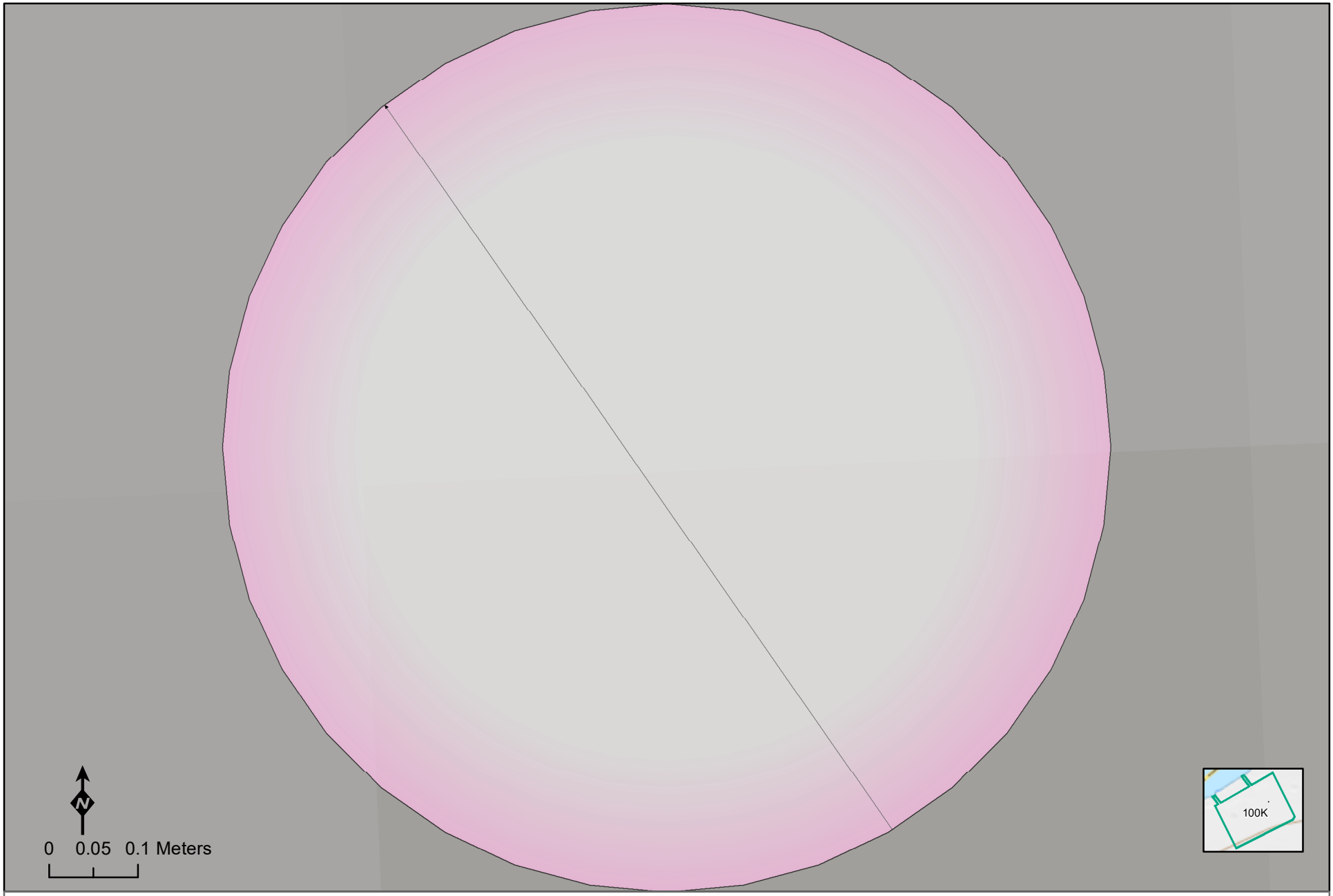


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-35

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
2.9	**0.0**	**2**	**2.9**	**2.9**

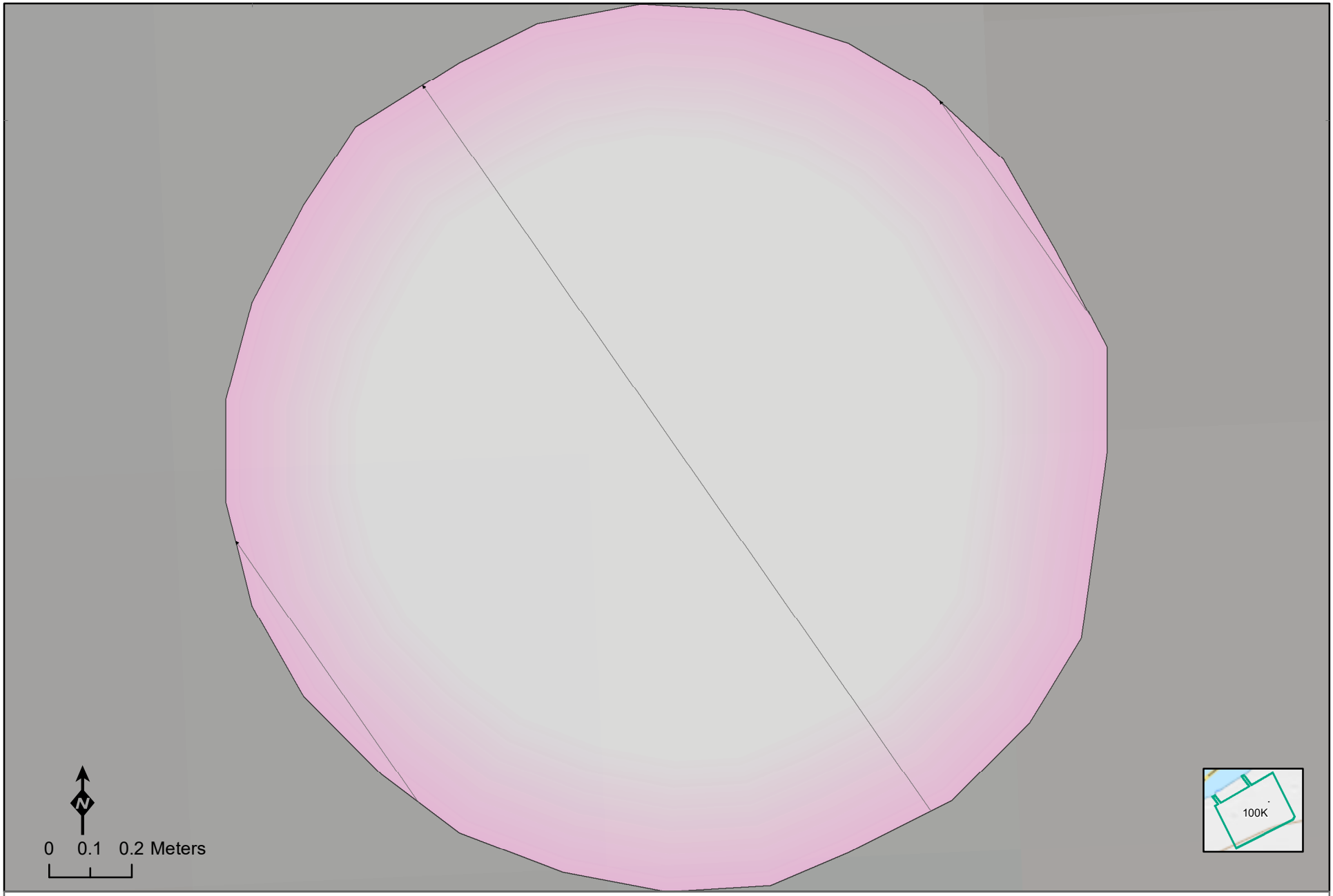


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-36

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.0	**0.0**	**1**	**1.0**	**1.0**

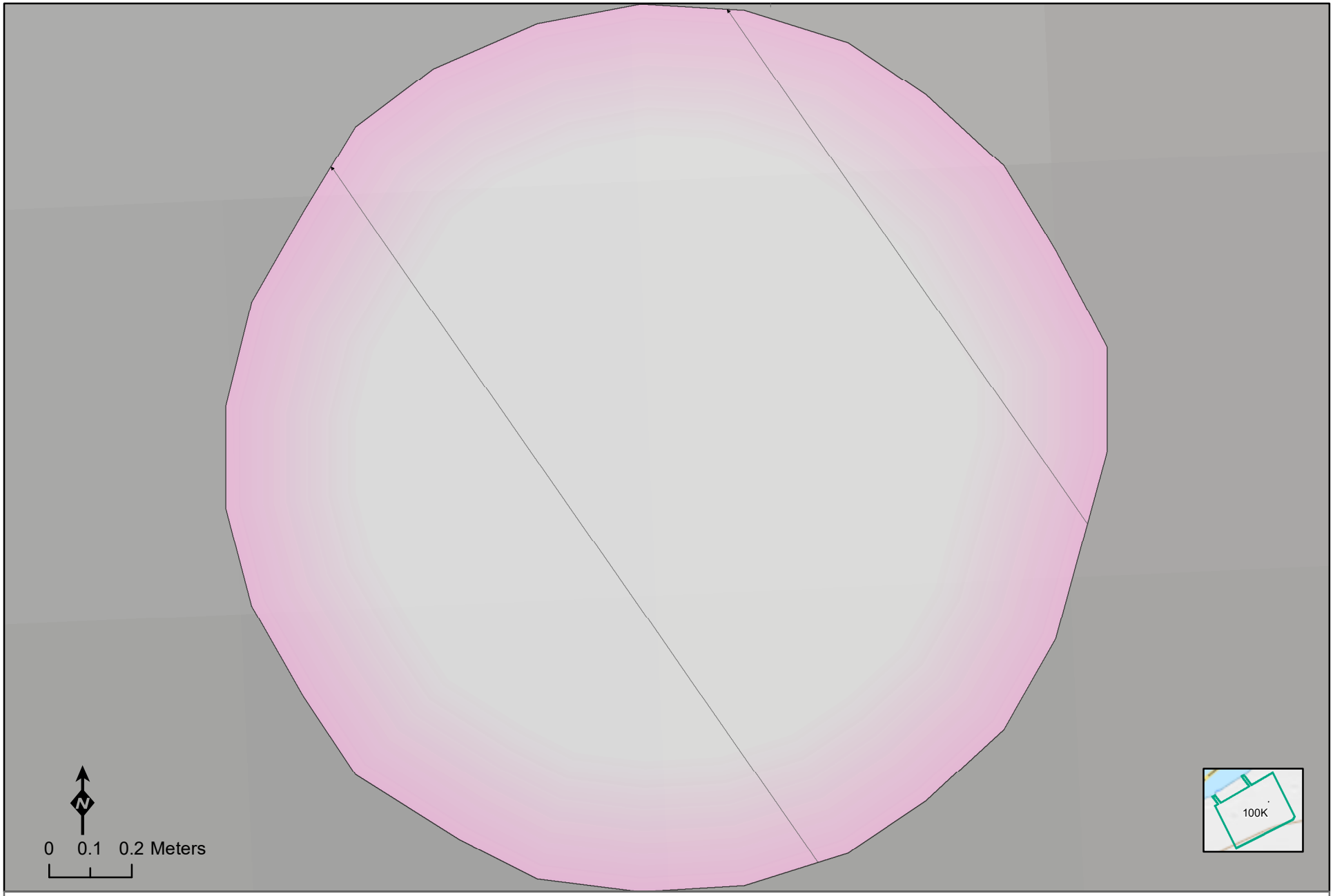


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-37

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.2	**0.7**	**3**	**0.6**	**2.1**



Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-38

Intersected Flow Vectors Statistics

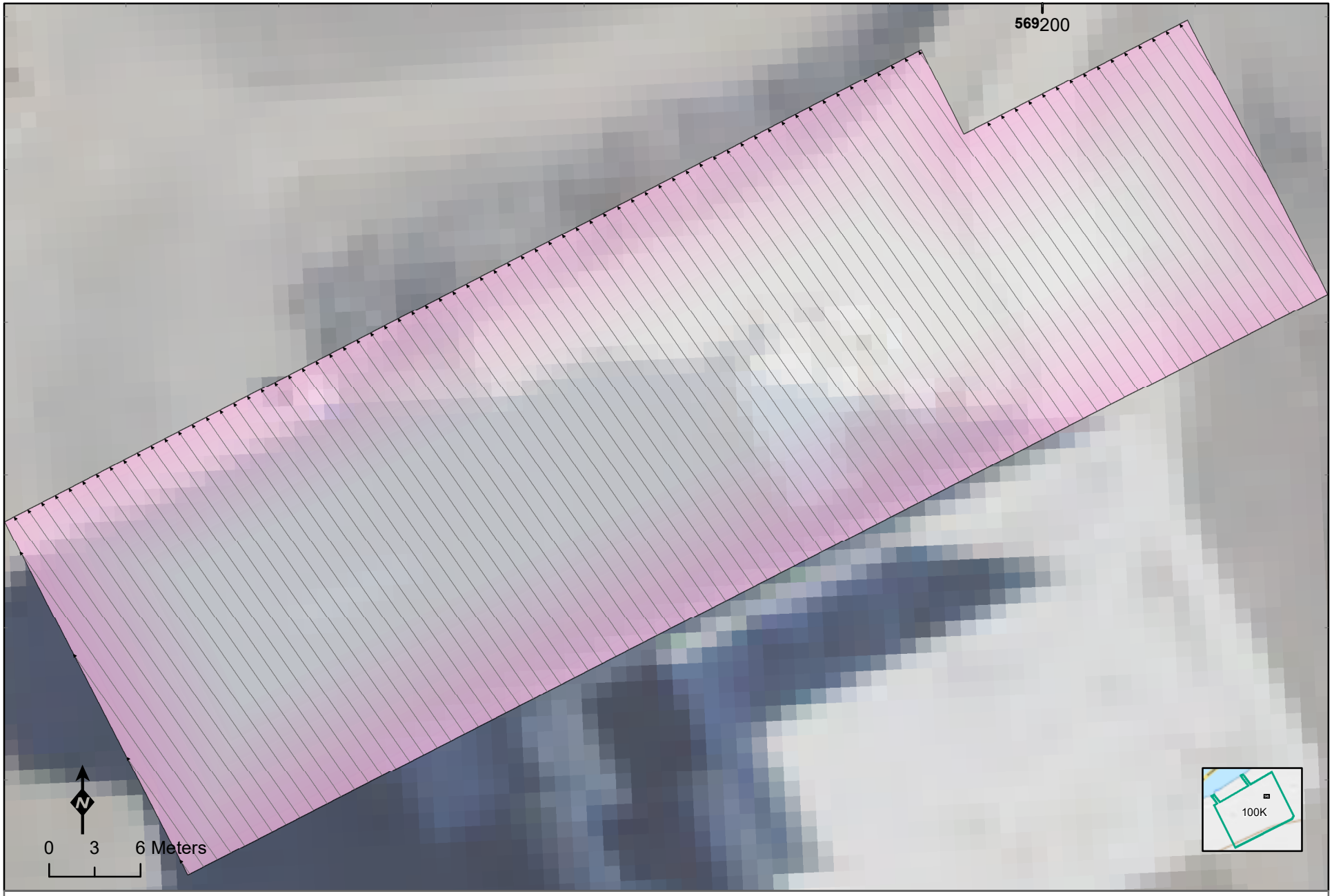
Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.8	**0.3**	**2**	**1.5**	**2.0**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-39

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
30.6	**10.7**	**27**	**3.8**	**37.0**



Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-42

Intersected Flow Vectors Statistics

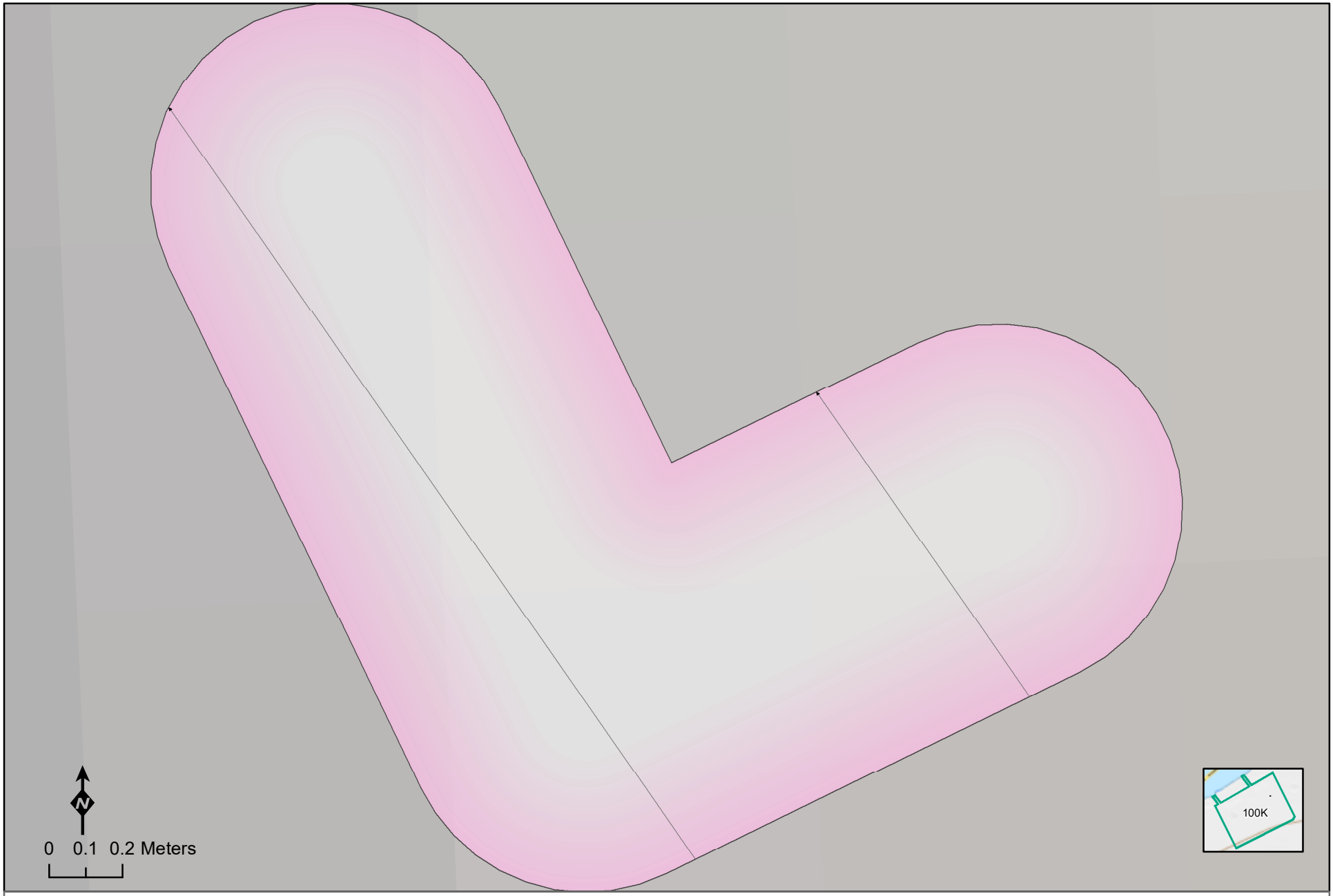
Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
24.4	**4.7**	**86**	**1.1**	**26.6**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-43

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
24.8	**4.6**	**86**	**0.6**	**26.9**



Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-46

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.8	**0.7**	**2**	**1.0**	**2.5**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-47

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
4.4	**4.8**	**797**	**1.0**	**34.3**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-48

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
5.4	**2.2**	**40**	**1.4**	**11.1**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-49

Intersected Flow Vectors Statistics

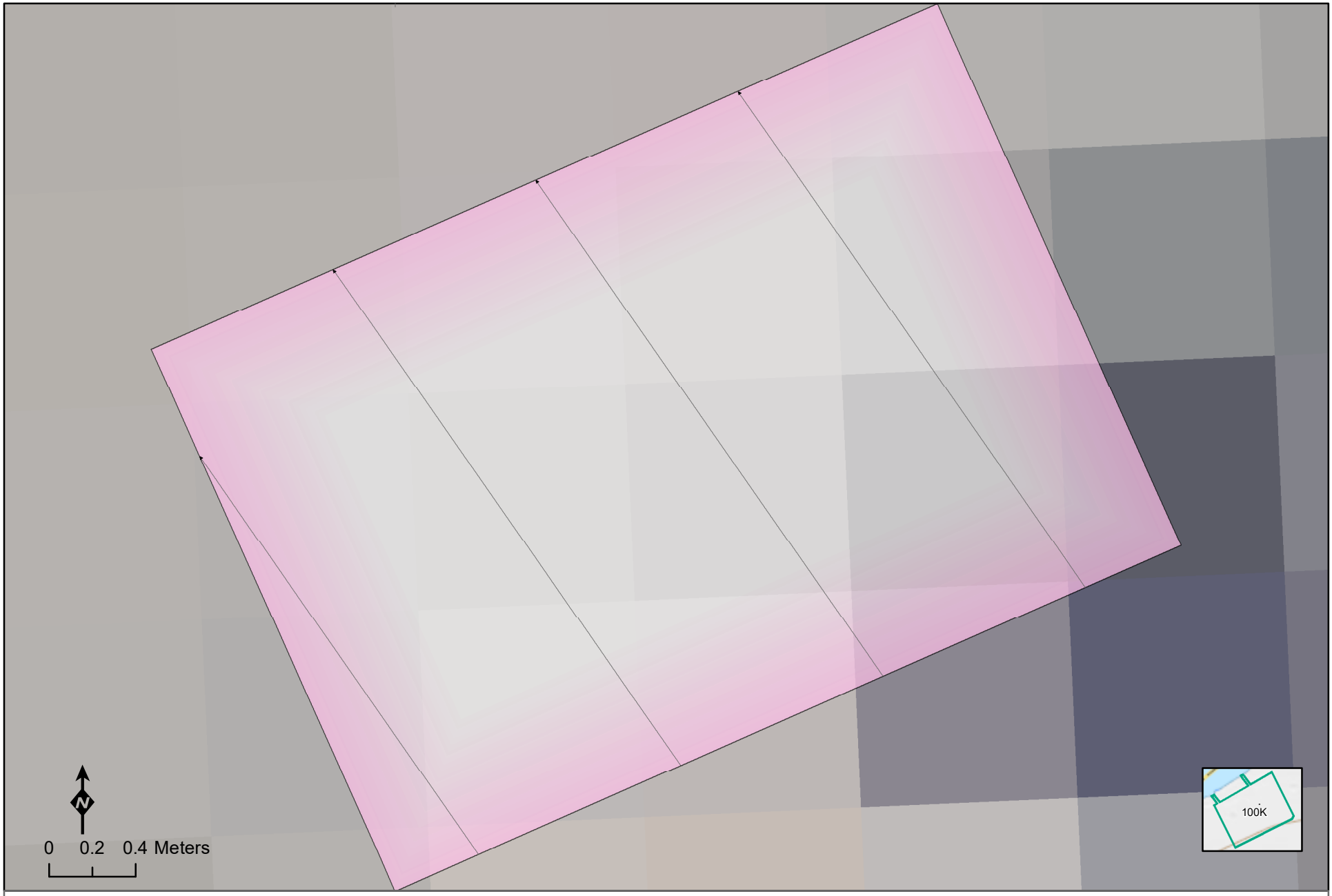
Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
11.6	**9.7**	**64**	**2.7**	**50.1**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-50

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
5.8	4.6	23	2.0	17.4

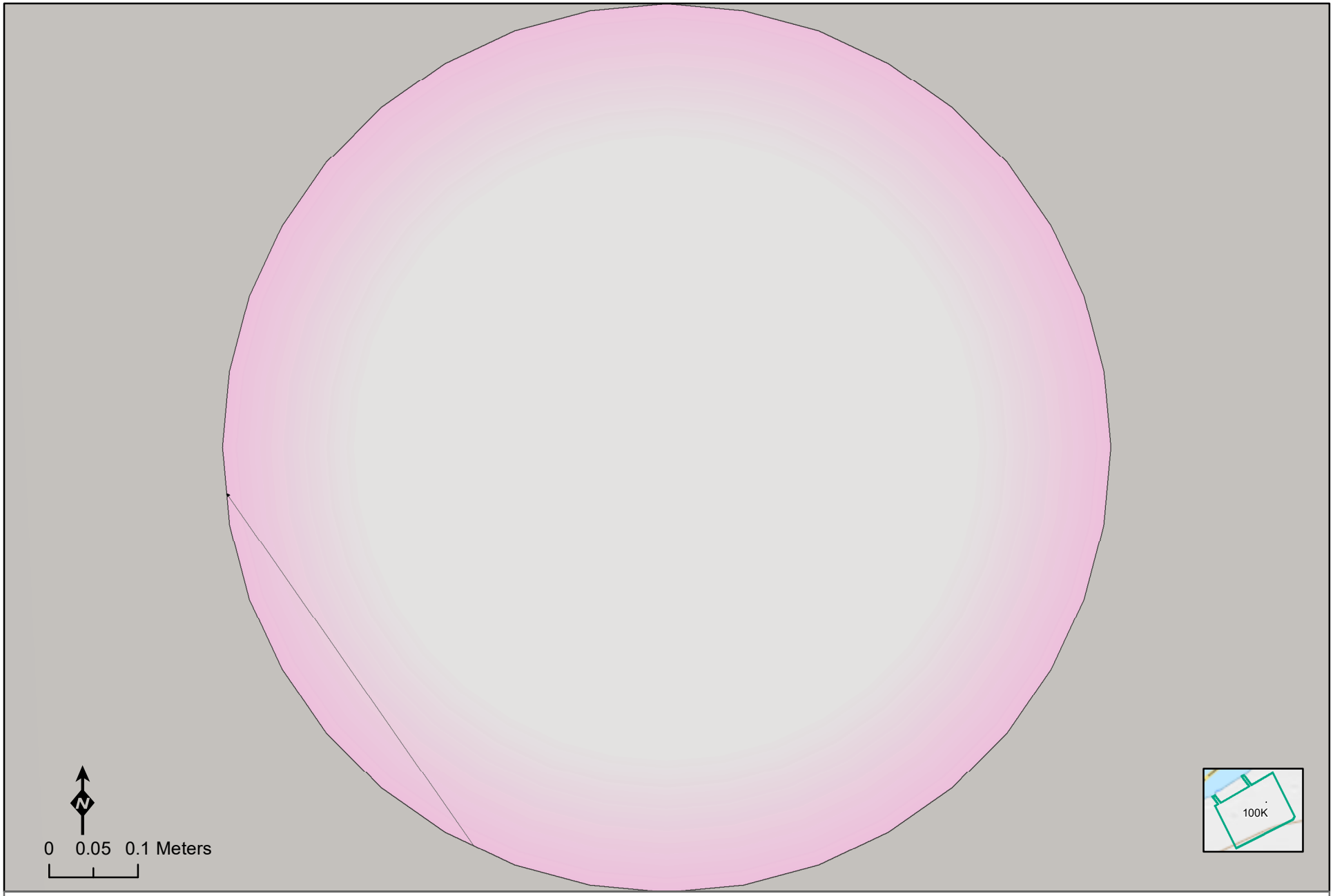


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-51

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
2.7	**0.2**	**4**	**2.2**	**2.8**

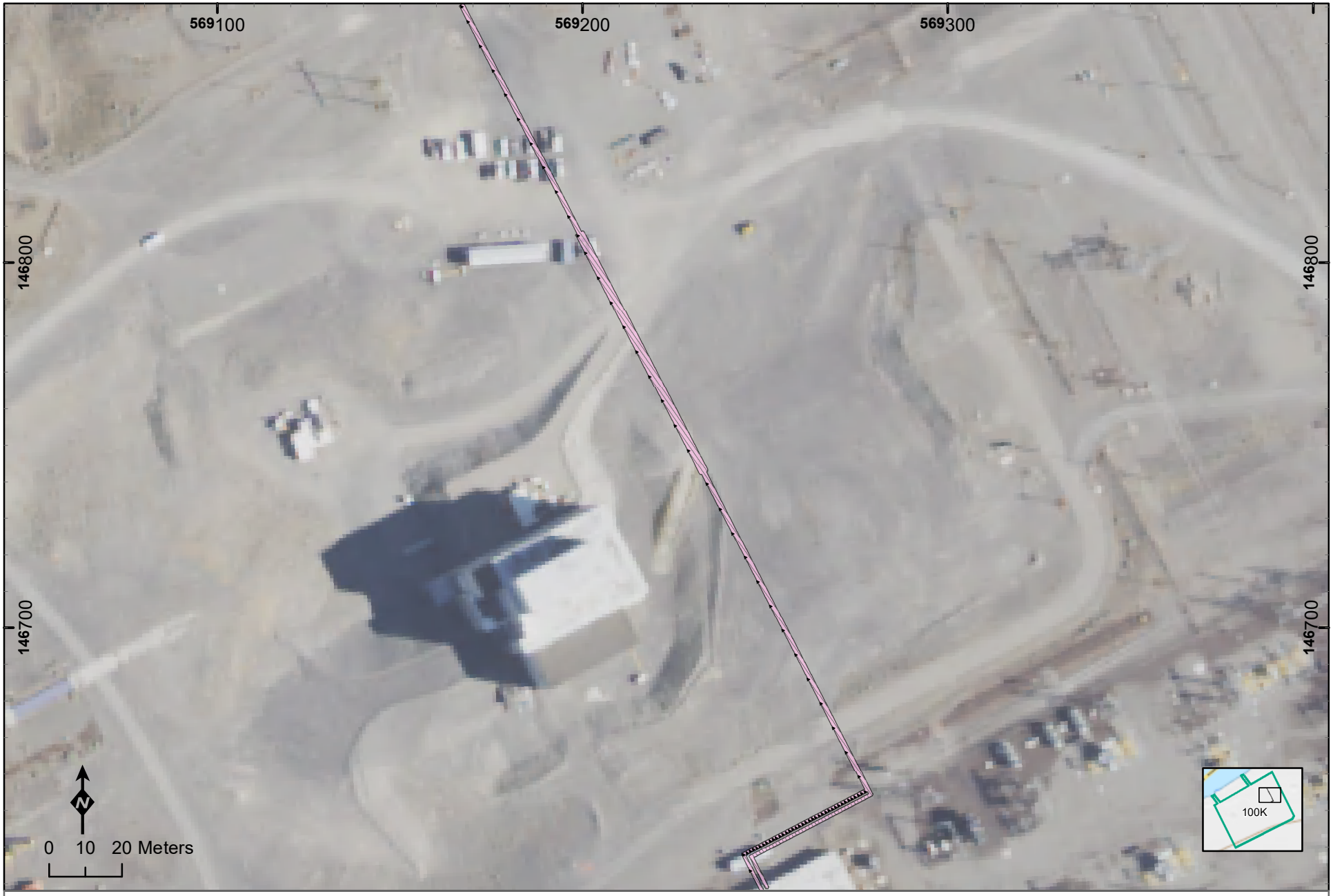


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-52

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
0.5	**0.0**	**1**	**0.5**	**0.5**



Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-53

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
7.2	**5.9**	**72**	**2.0**	**19.3**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-54

Intersected Flow Vectors Statistics

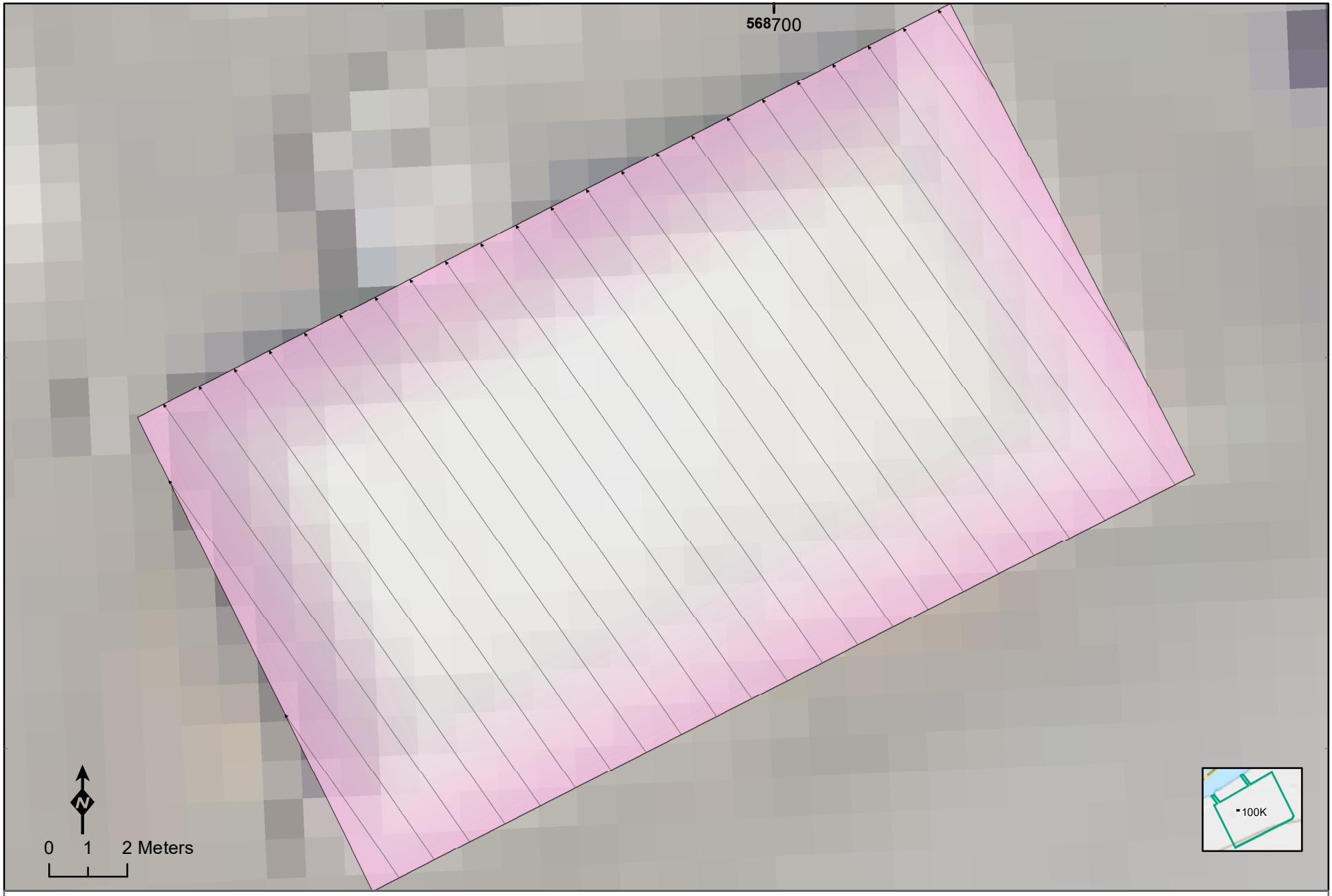
Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
6.6	5.2	95	1.0	15.9

Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-60

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.2	0.1	315	0.8	1.3

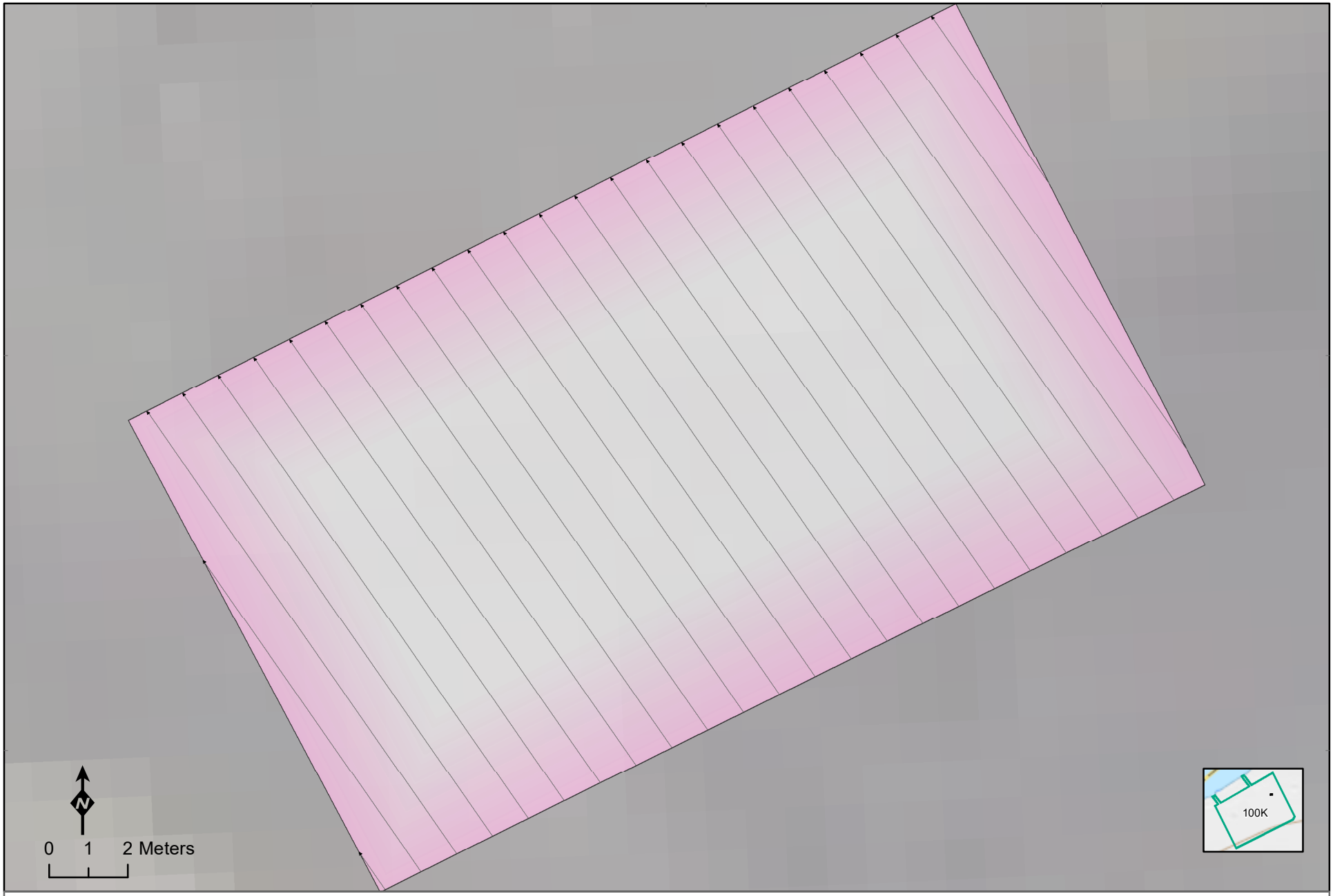


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-61

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
12.7	**2.7**	**25**	**2.6**	**13.7**

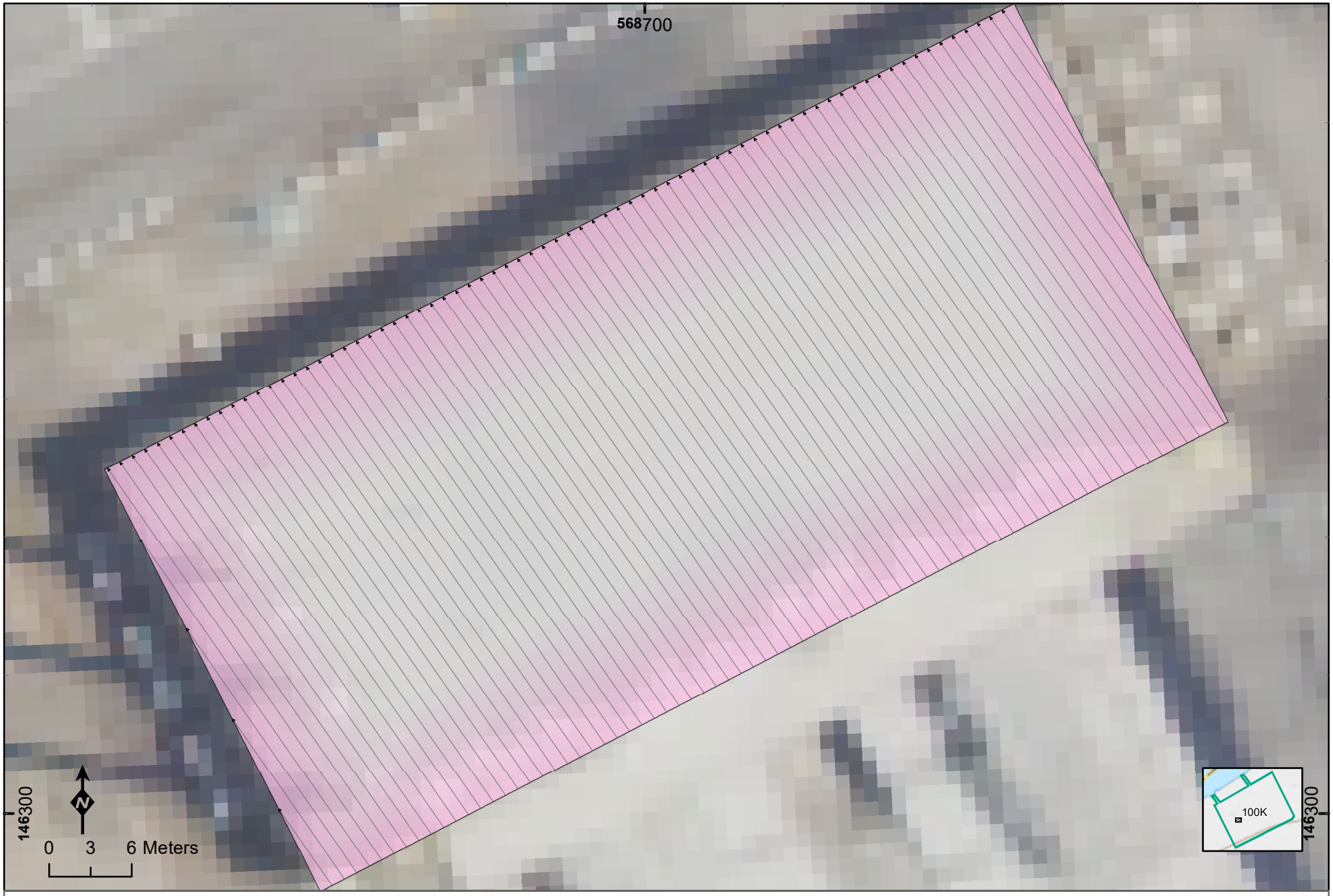


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-62

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
12.7	**3.0**	**25**	**1.2**	**13.8**



Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-66

Intersected Flow Vectors Statistics

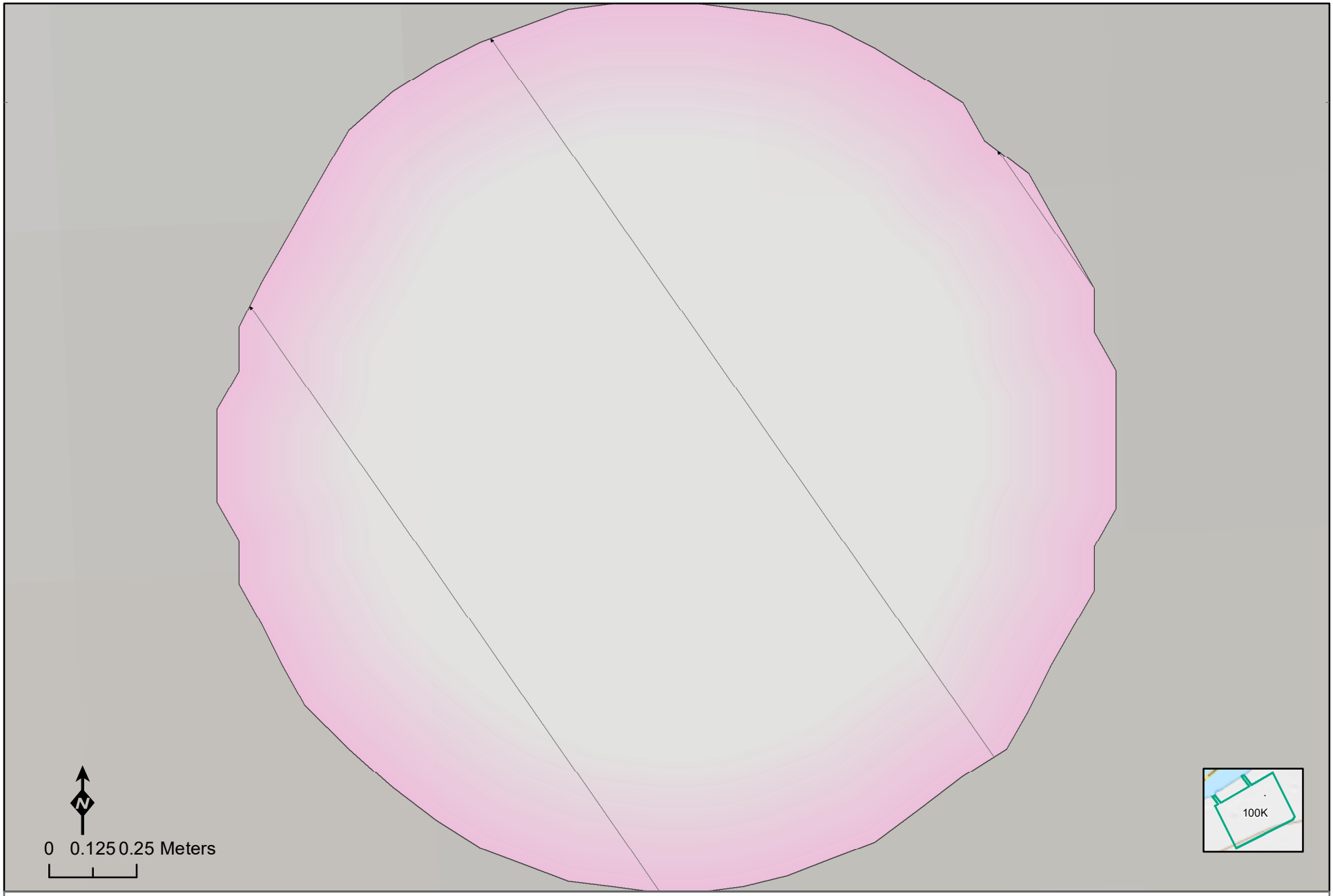
Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
32.7	**5.7**	**77**	**6.8**	**34.6**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-67

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
33.0	**7.1**	**78**	**0.1**	**41.8**

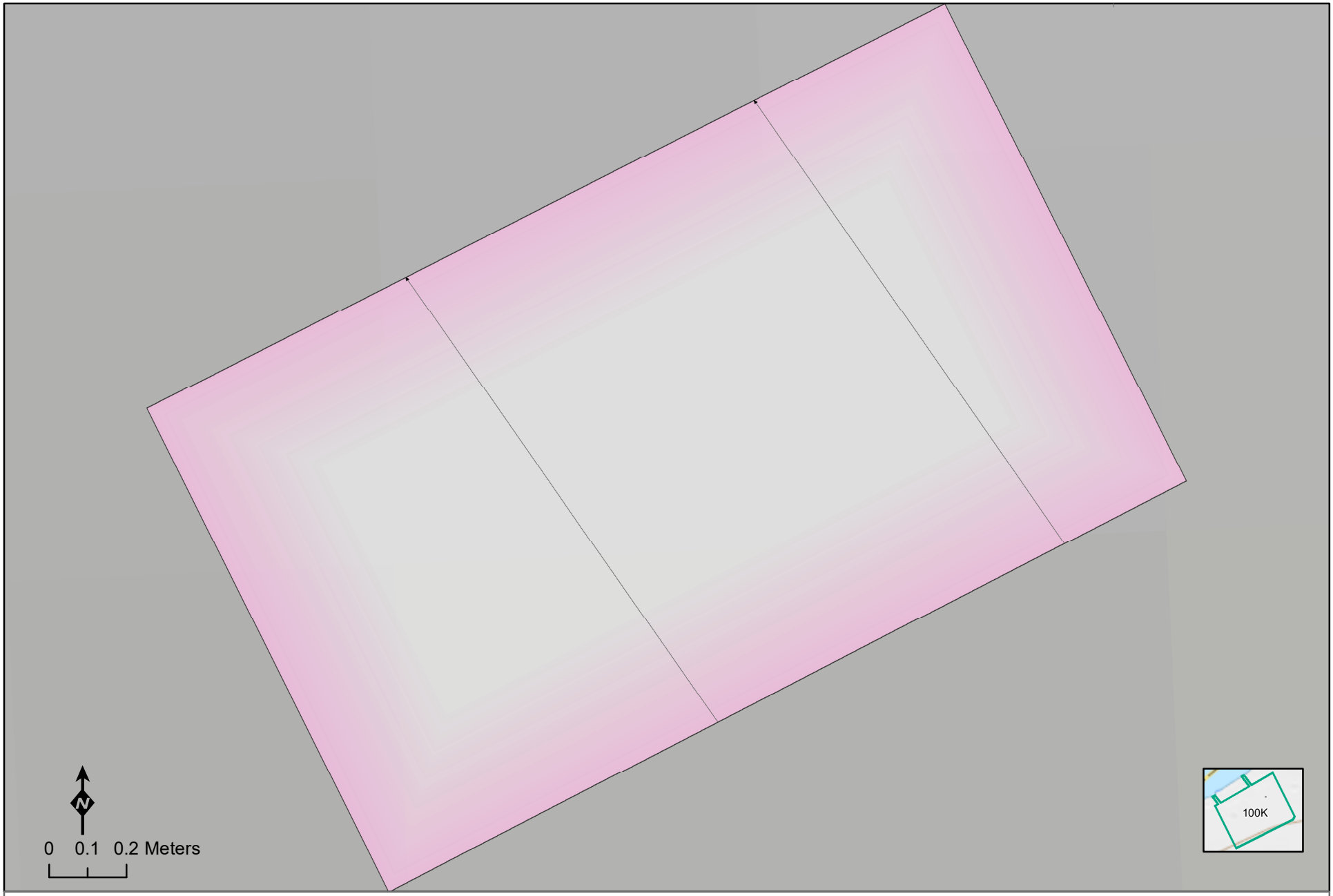


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-68

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.7	**0.9**	**3**	**0.5**	**2.5**



Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-69

Intersected Flow Vectors Statistics

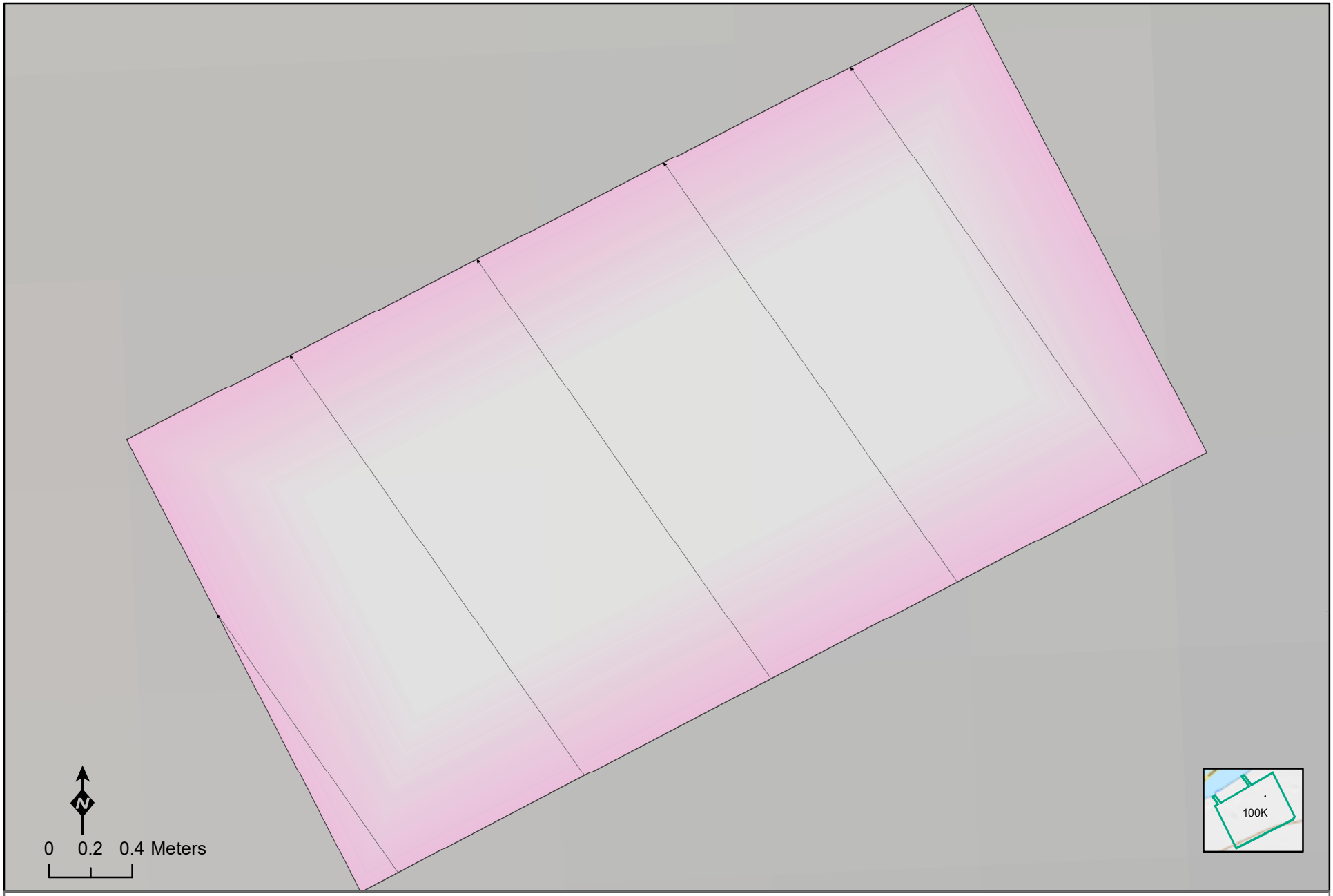
Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.4	**0.0**	**2**	**1.4**	**1.4**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-70

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
2.5	**0.8**	**19**	**1.0**	**3.5**



Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-71

Intersected Flow Vectors Statistics

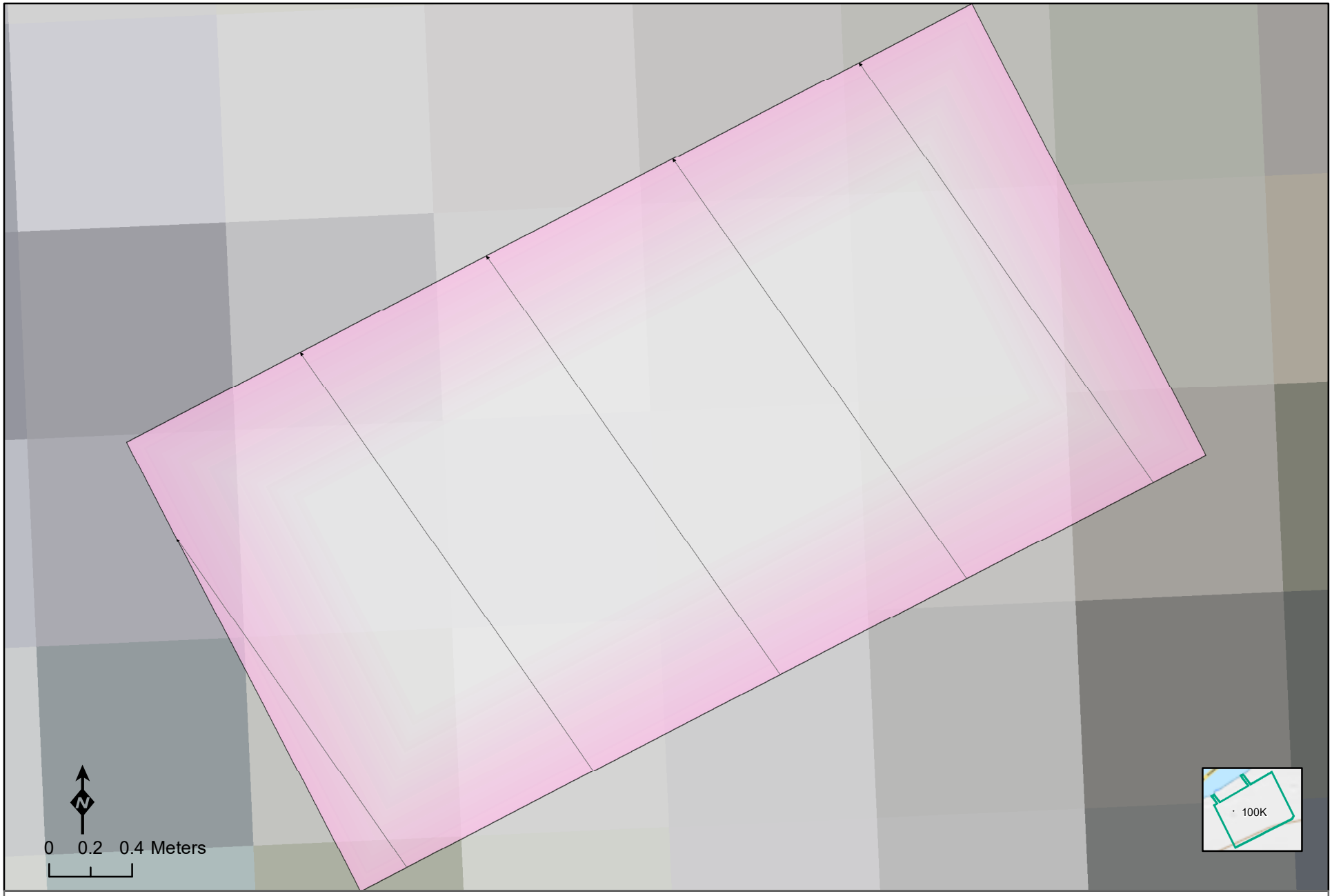
Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
2.3	**0.4**	**5**	**1.5**	**2.5**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-72

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
5.4	**3.6**	**9**	**0.1**	**12.9**



Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-73

Intersected Flow Vectors Statistics

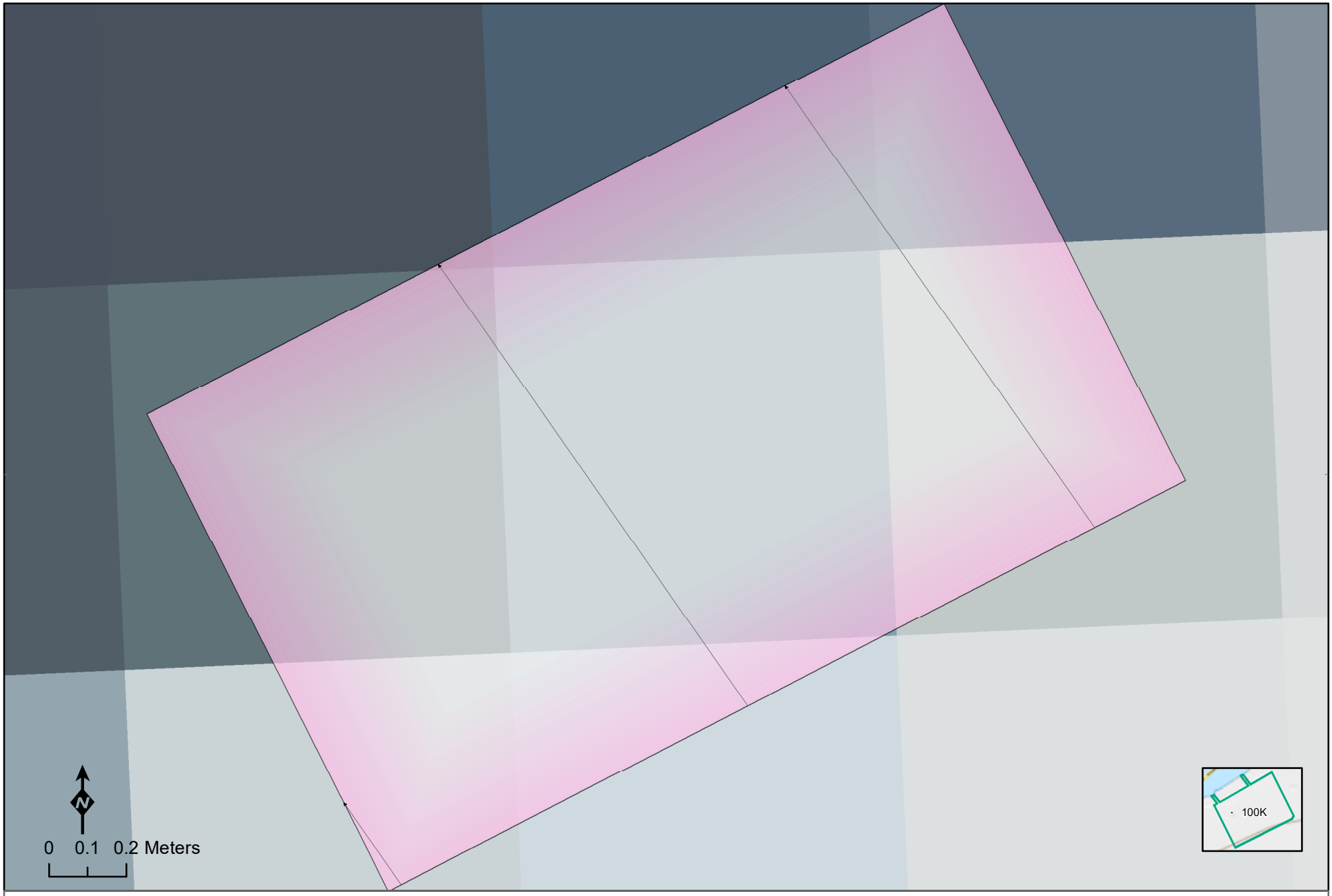
Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
2.4	**0.2**	**5**	**1.9**	**2.5**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-74

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
2.5	**0.9**	**18**	**1.0**	**4.3**

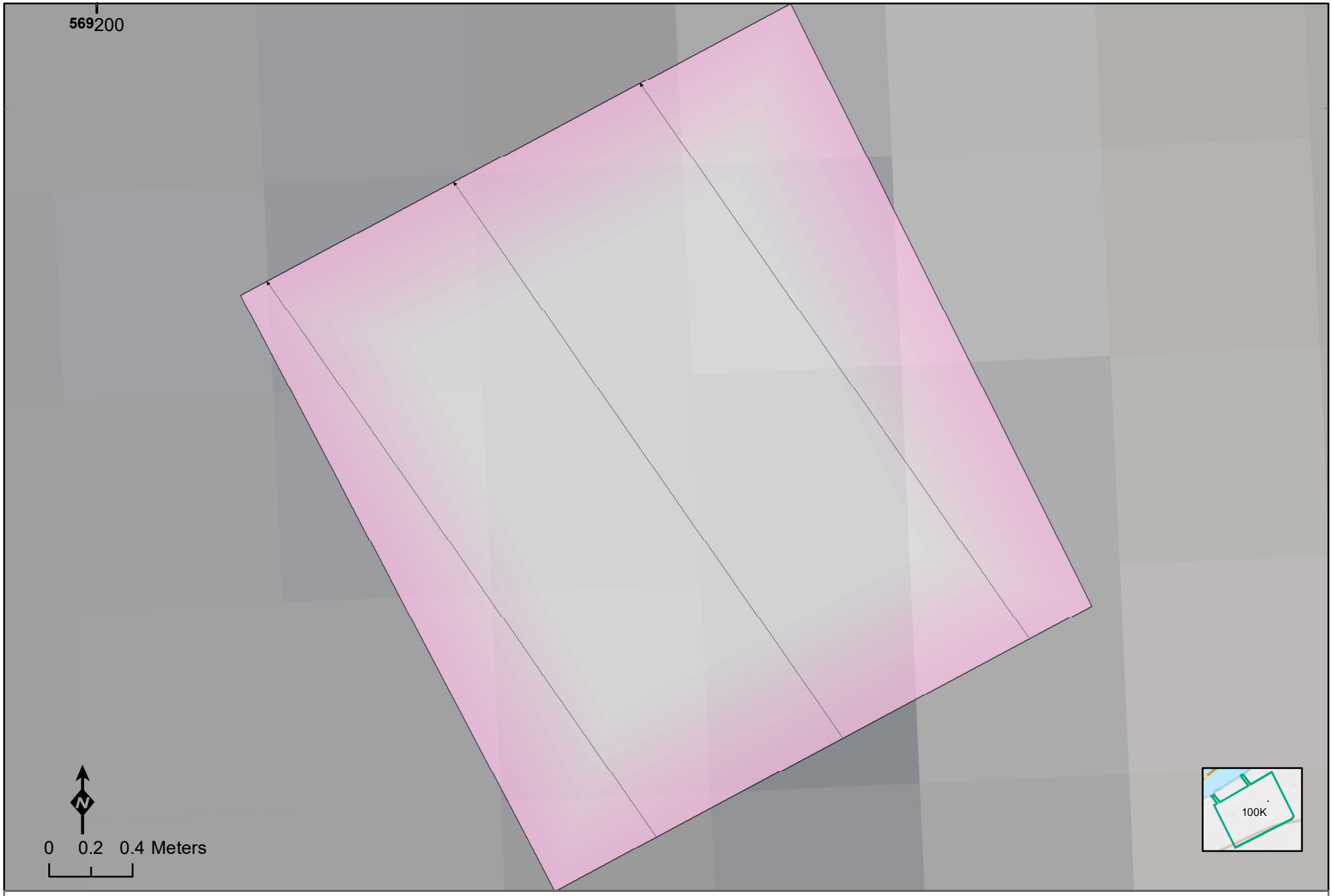


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-75

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.0	**0.5**	**3**	**0.3**	**1.4**



Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-77

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
3.2	**0.0**	**3**	**3.2**	**3.2**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-79

Intersected Flow Vectors Statistics

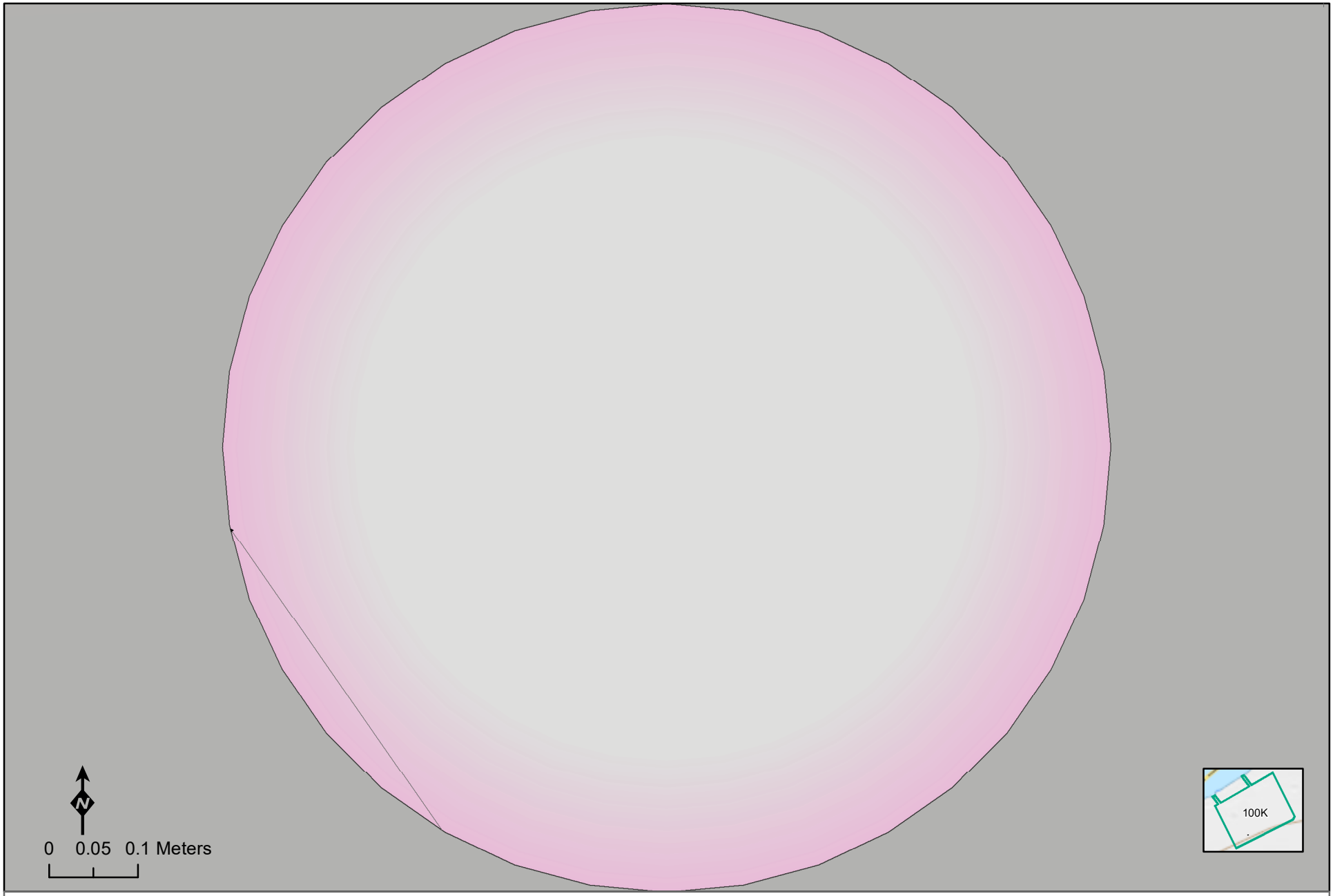
Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
3.6	3.0	635	1.0	27.5

Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-94

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
0.7	**0.3**	**2**	**0.4**	**1.0**

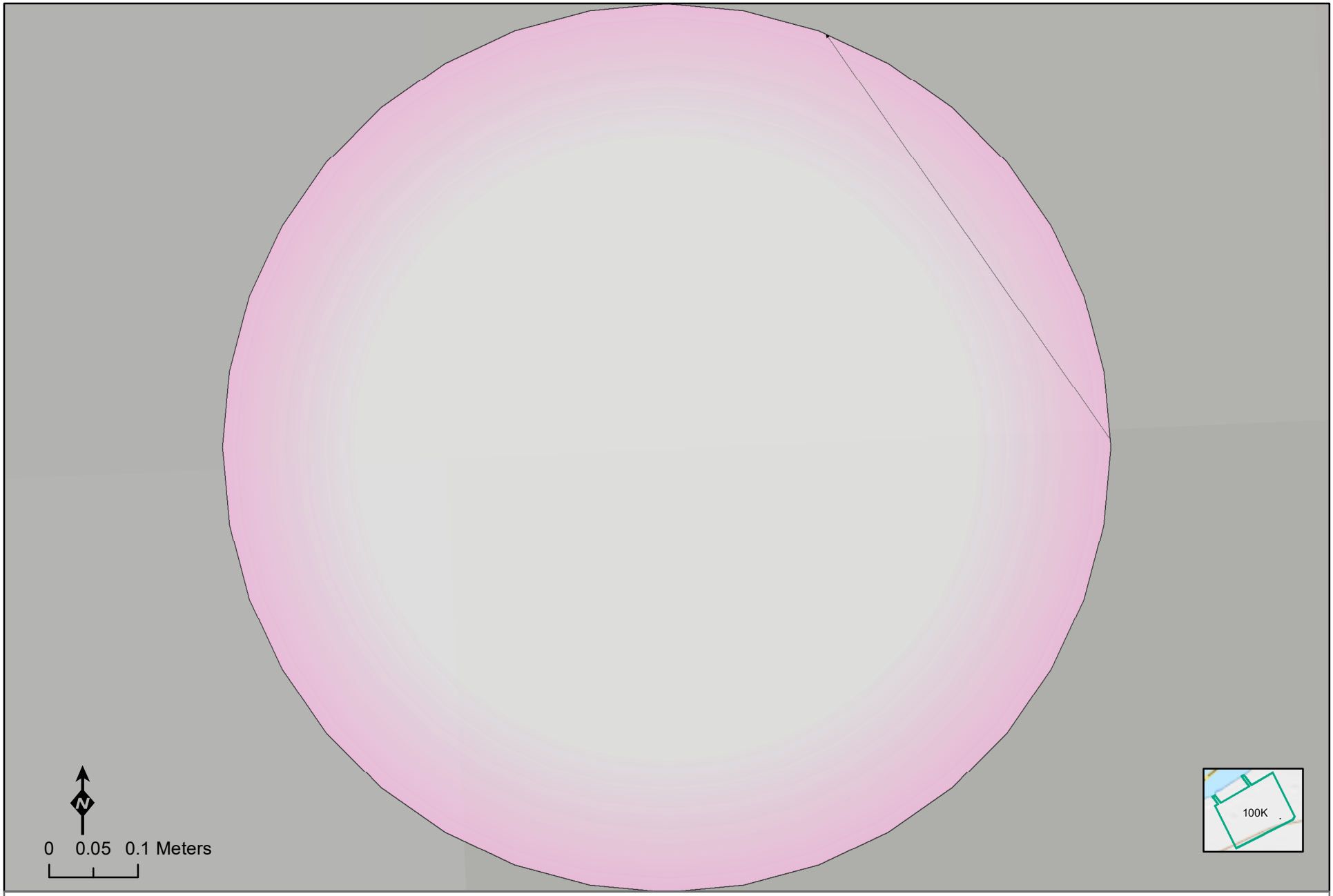


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-97

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
0.4	**0.0**	**1**	**0.4**	**0.4**



Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-98

Intersected Flow Vectors Statistics

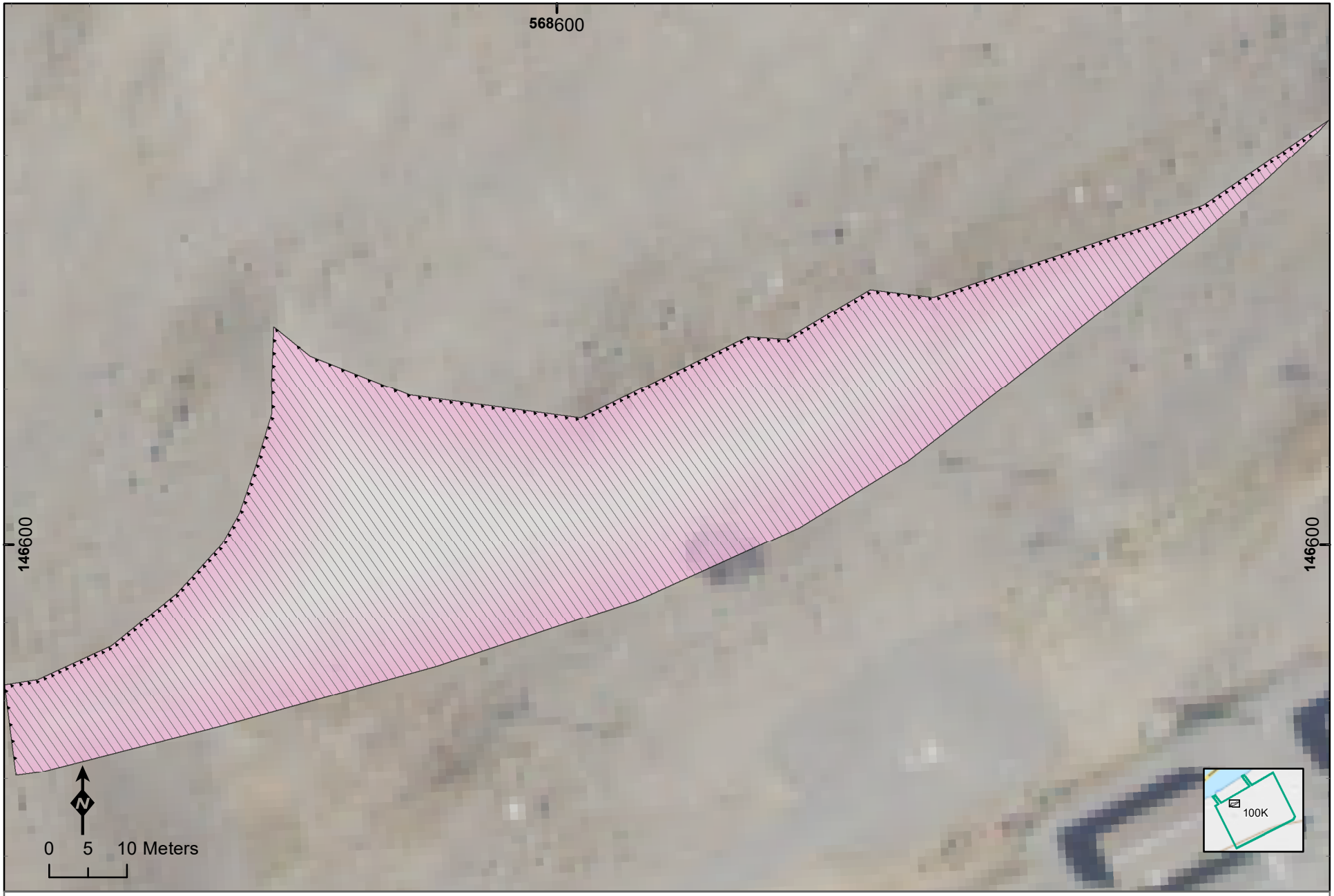
Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
0.6	**0.0**	**1**	**0.6**	**0.6**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-99

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
25.0	**10.8**	**138**	**0.5**	**47.8**



Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-100

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
19.2	**12.0**	**187**	**0.0**	**49.8**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-101

Intersected Flow Vectors Statistics

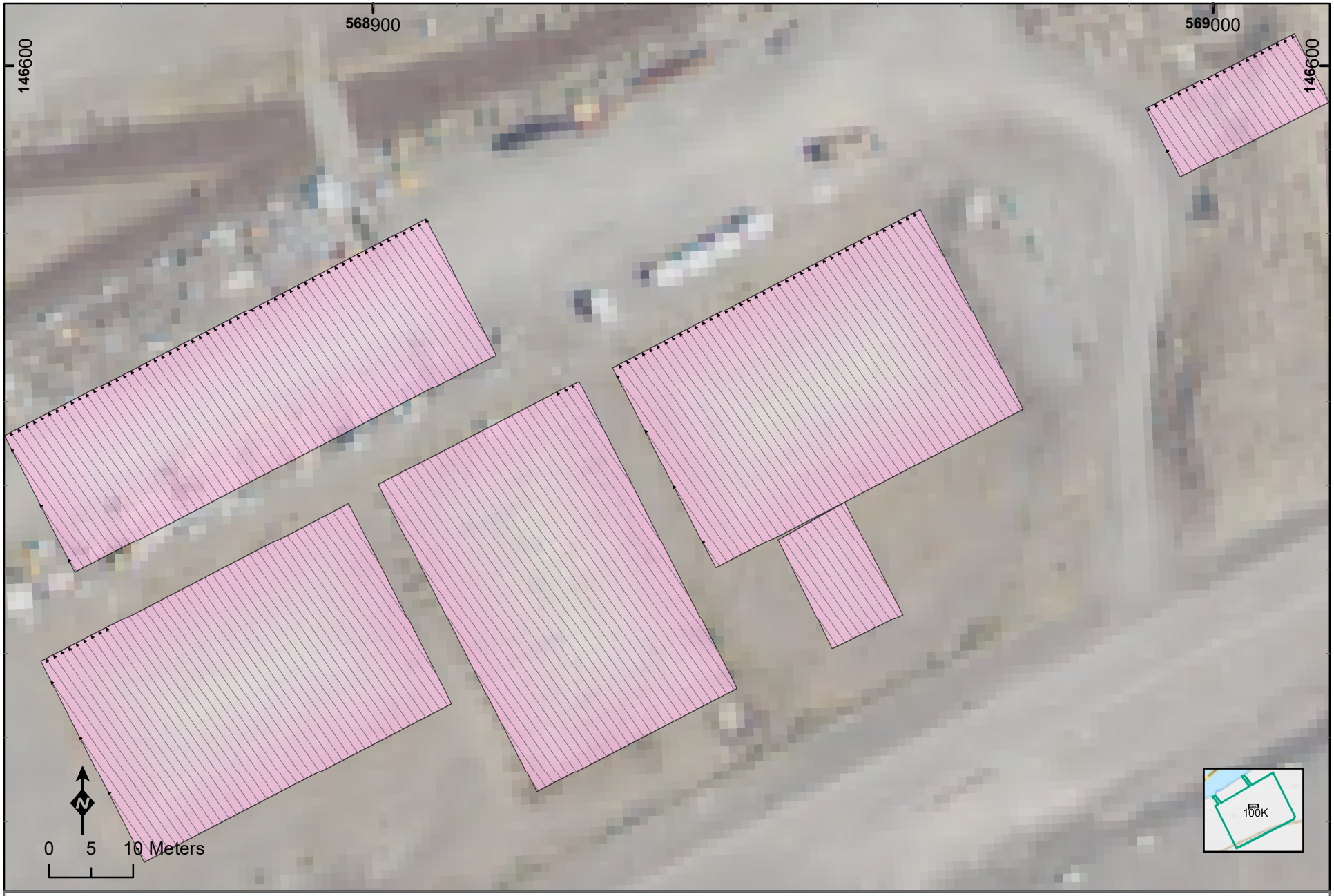
Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
13.1	**3.1**	**235**	**1.0**	**17.3**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-102

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
13.8	**2.6**	**215**	**2.3**	**16.7**

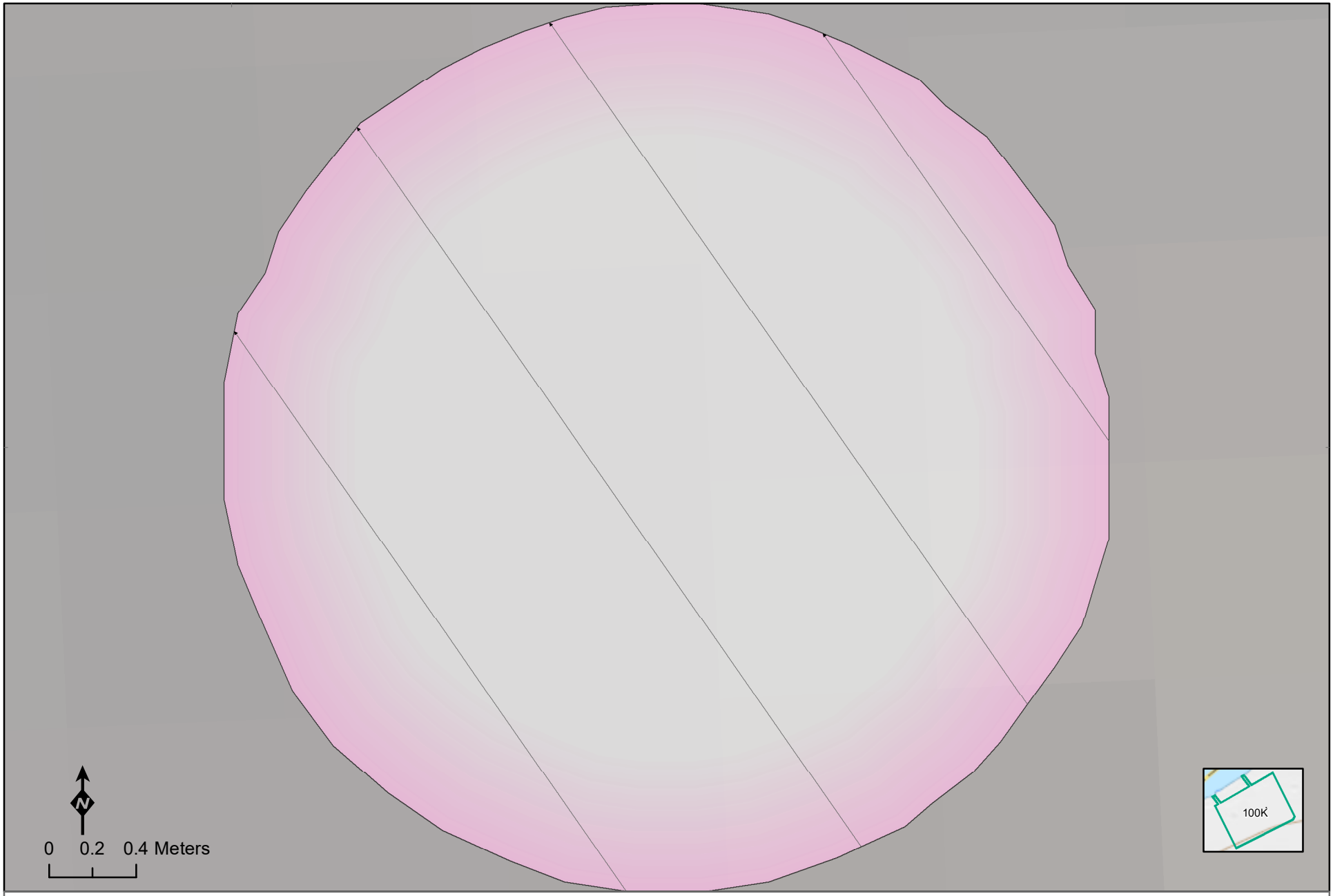


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-103

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
33.3	**17.0**	**140**	**2.1**	**60.0**

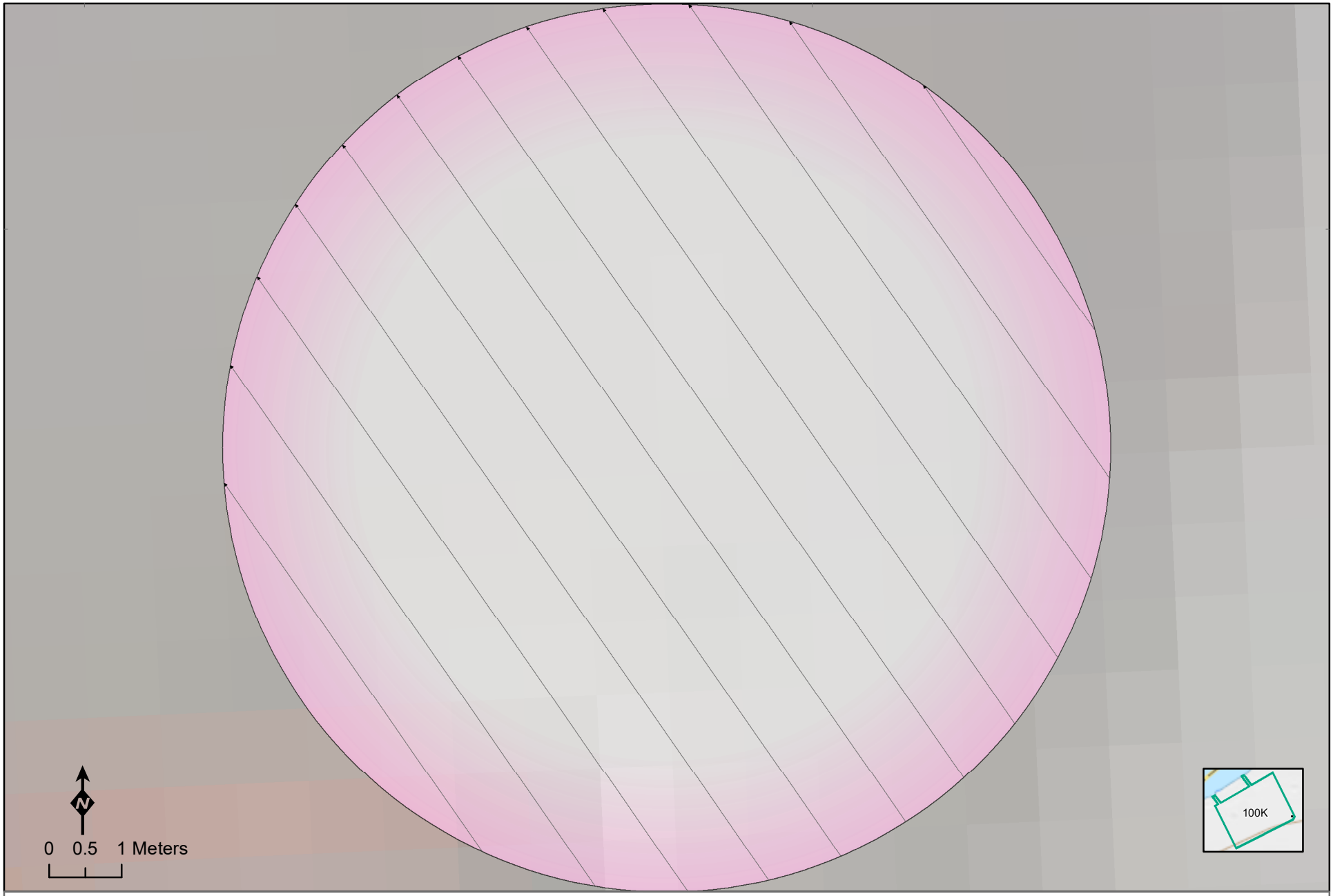


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-104

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
3.3	**0.7**	**4**	**2.3**	**4.0**

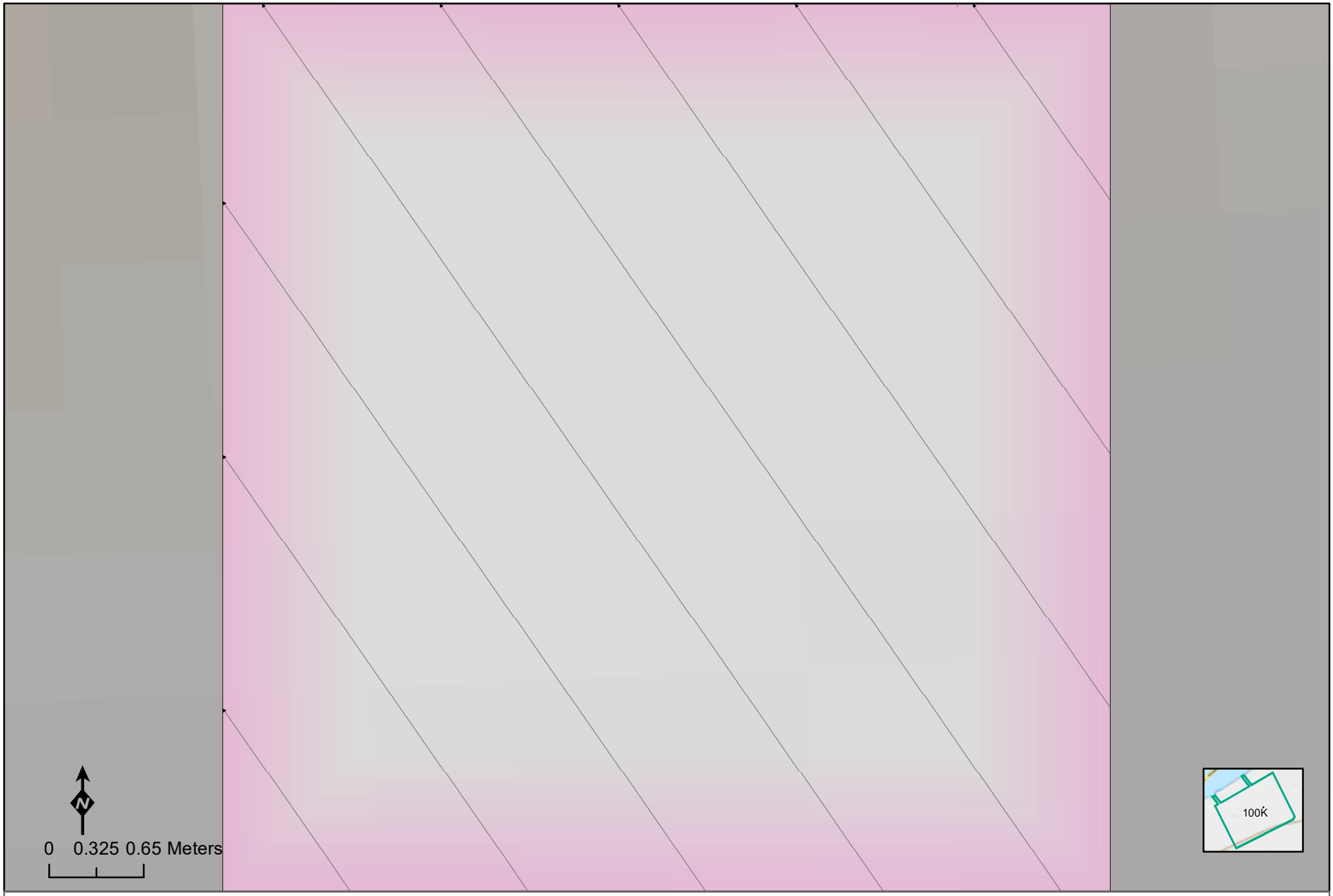


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-105

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
9.7	**2.5**	**12**	**4.1**	**12.2**



Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-106

Intersected Flow Vectors Statistics

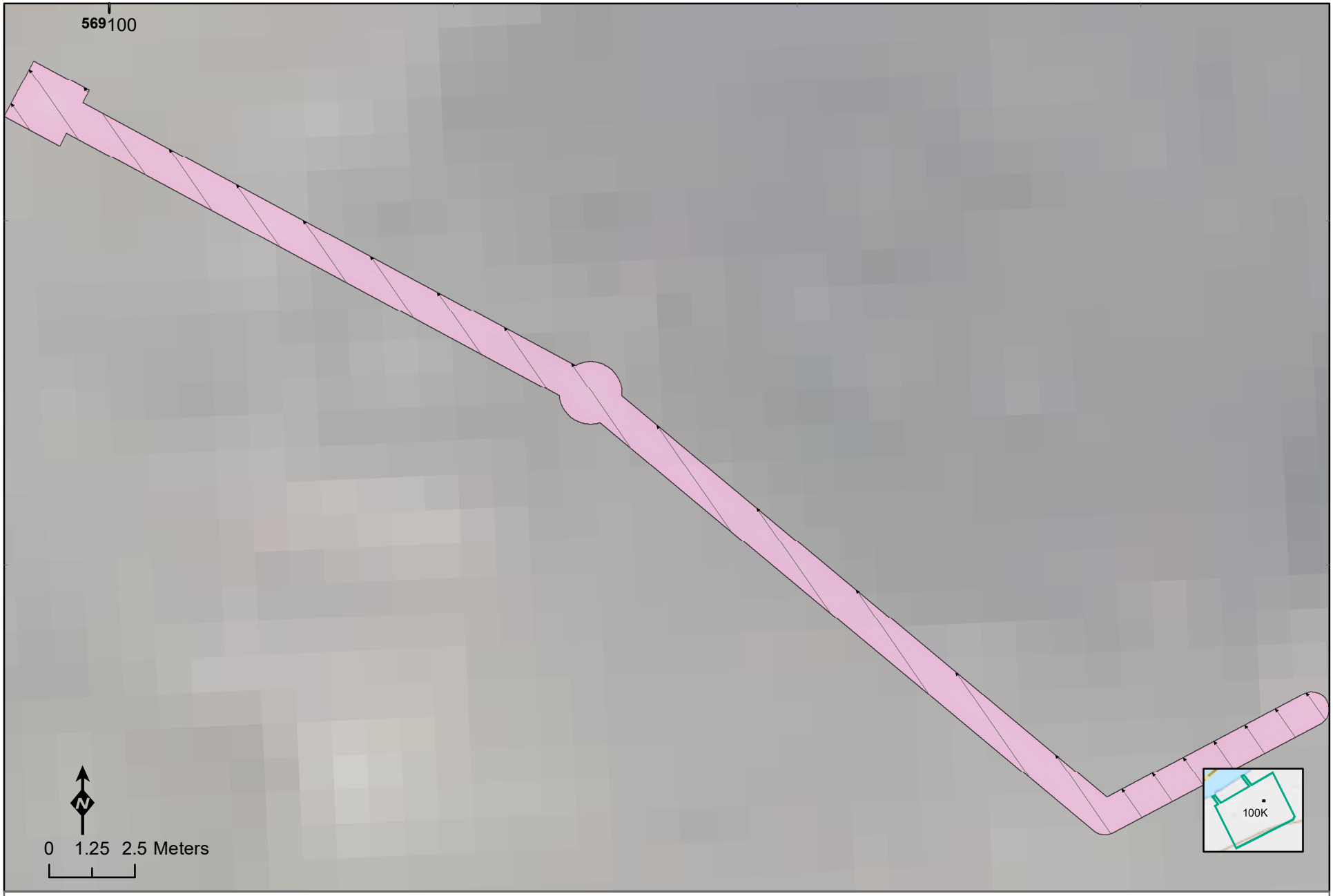
Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
4.7	**2.2**	**8**	**1.5**	**7.4**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-107

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
12.5	**7.1**	**11**	**0.2**	**18.6**

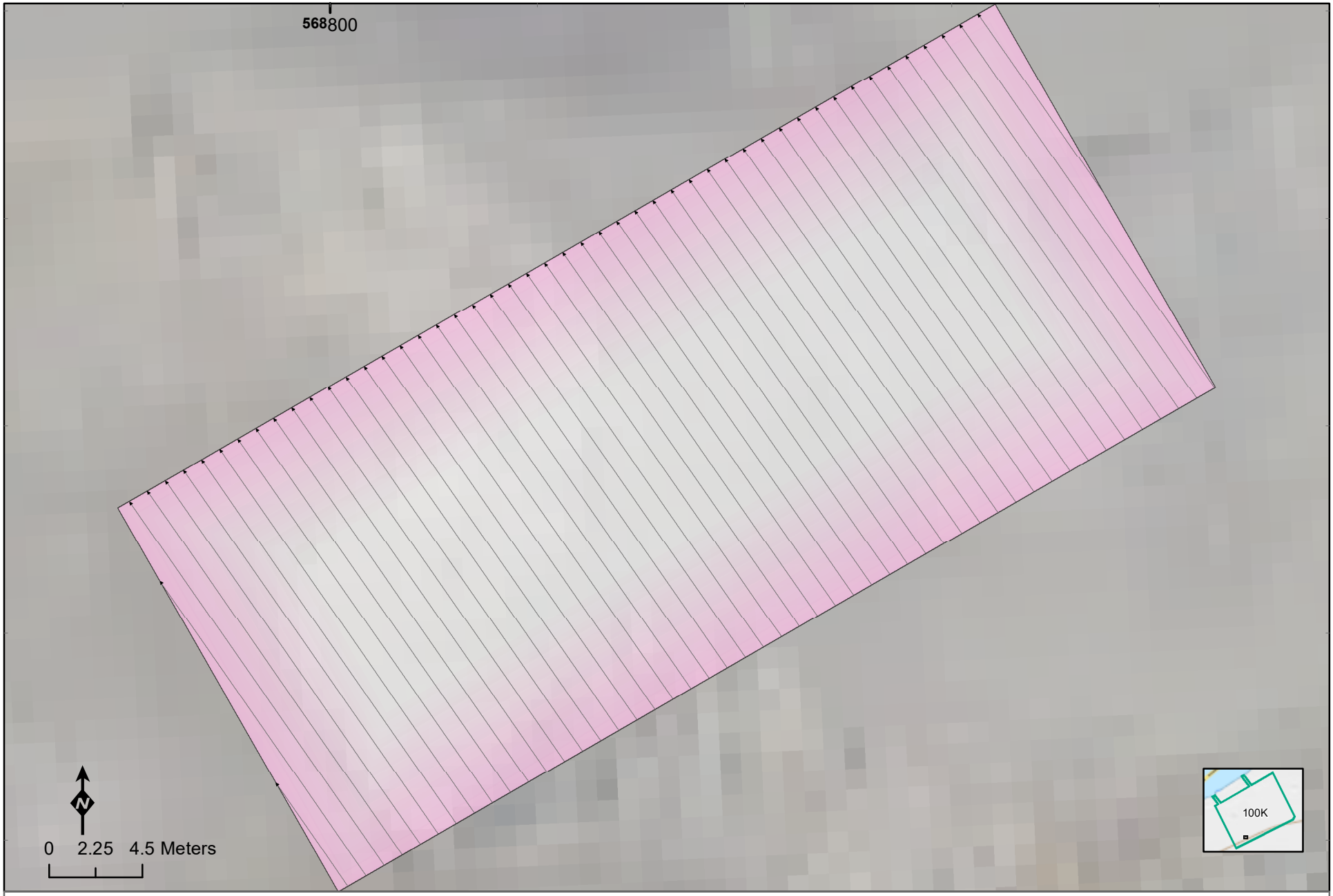


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-108

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
2.1	**1.0**	**22**	**0.9**	**3.8**



Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-109

Intersected Flow Vectors Statistics

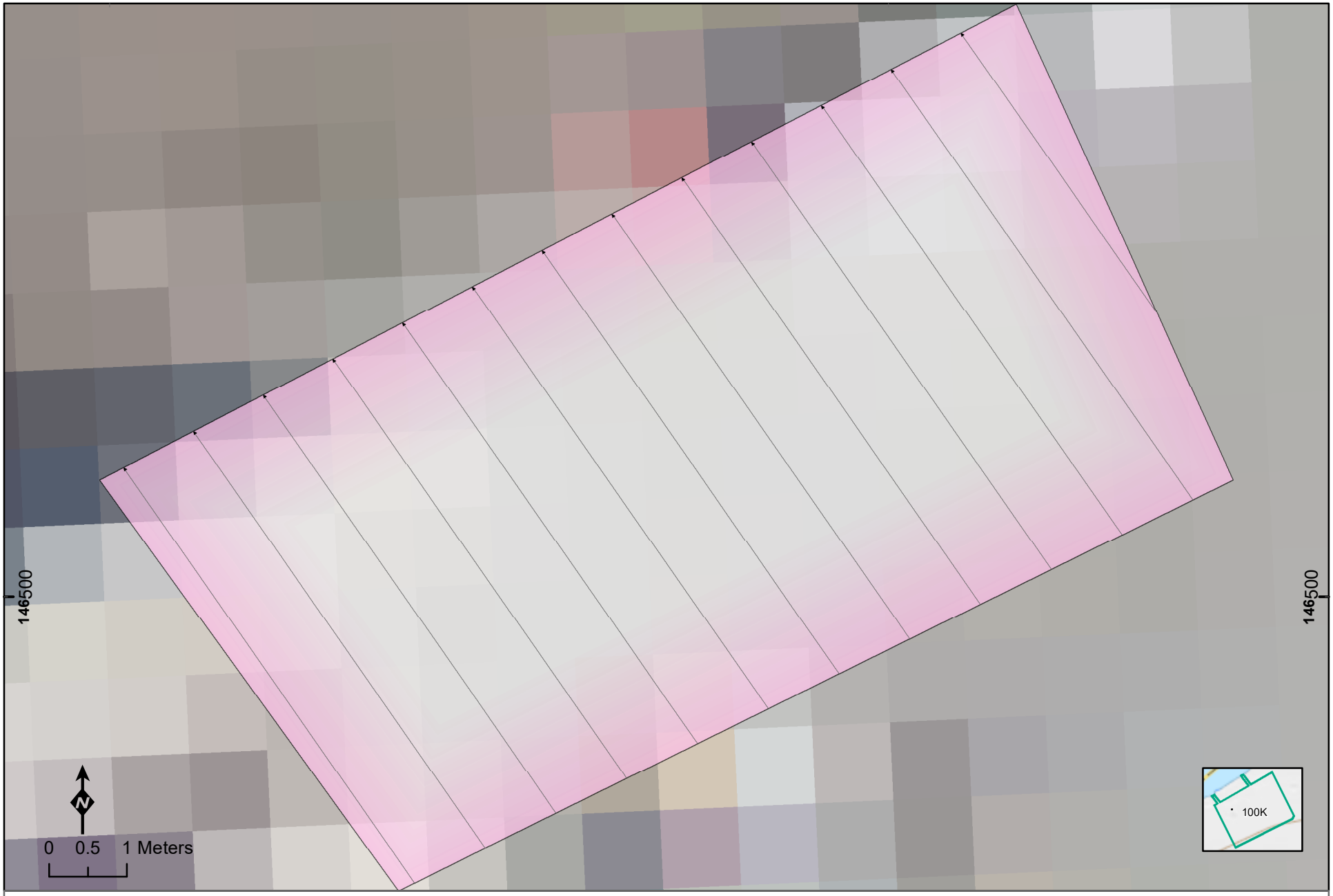
Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
20.8	**2.6**	**50**	**6.1**	**21.4**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-110

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
125.9	**27.2**	**260**	**2.1**	**145.8**

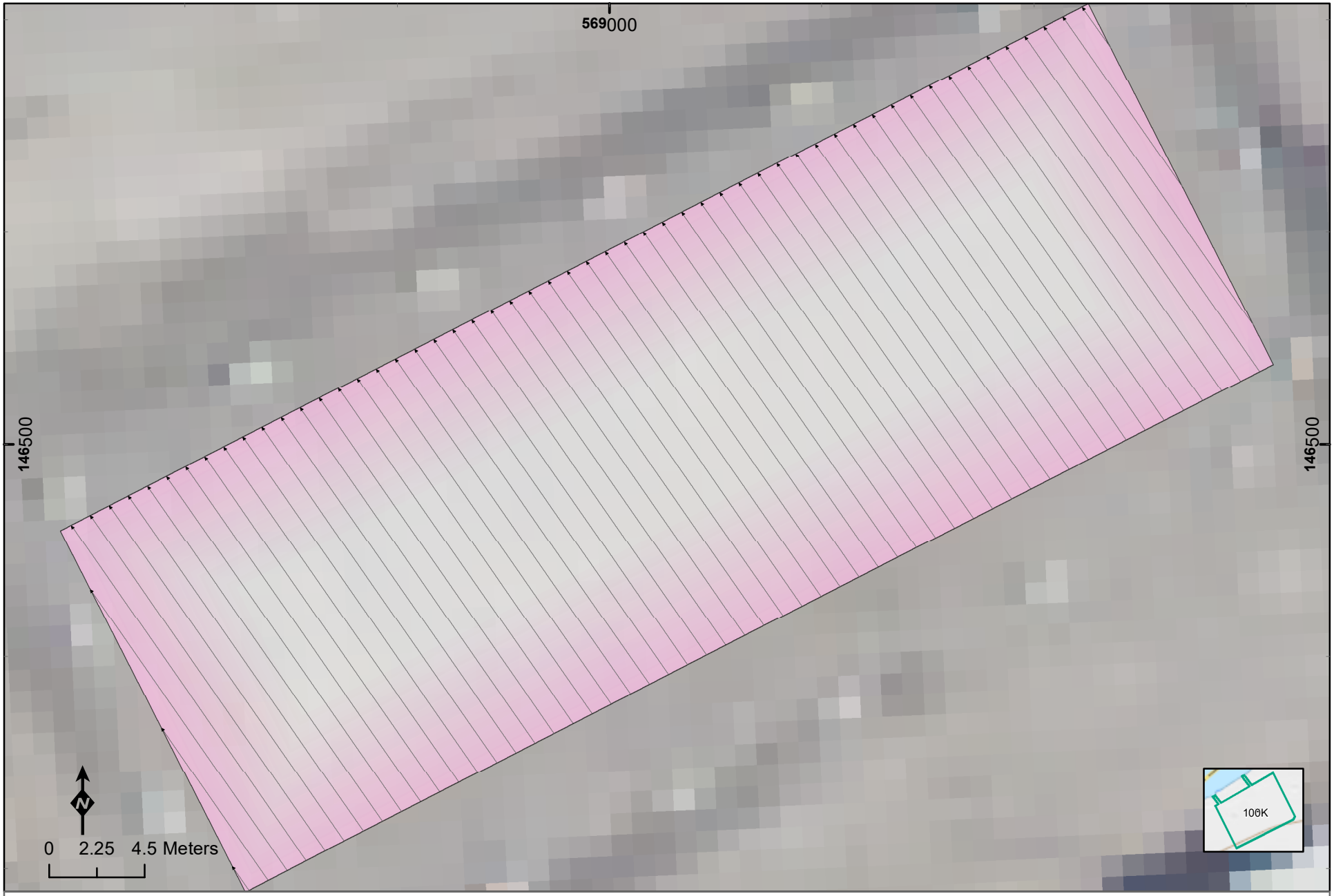


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-112

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
6.5	0.6	13	4.4	6.8

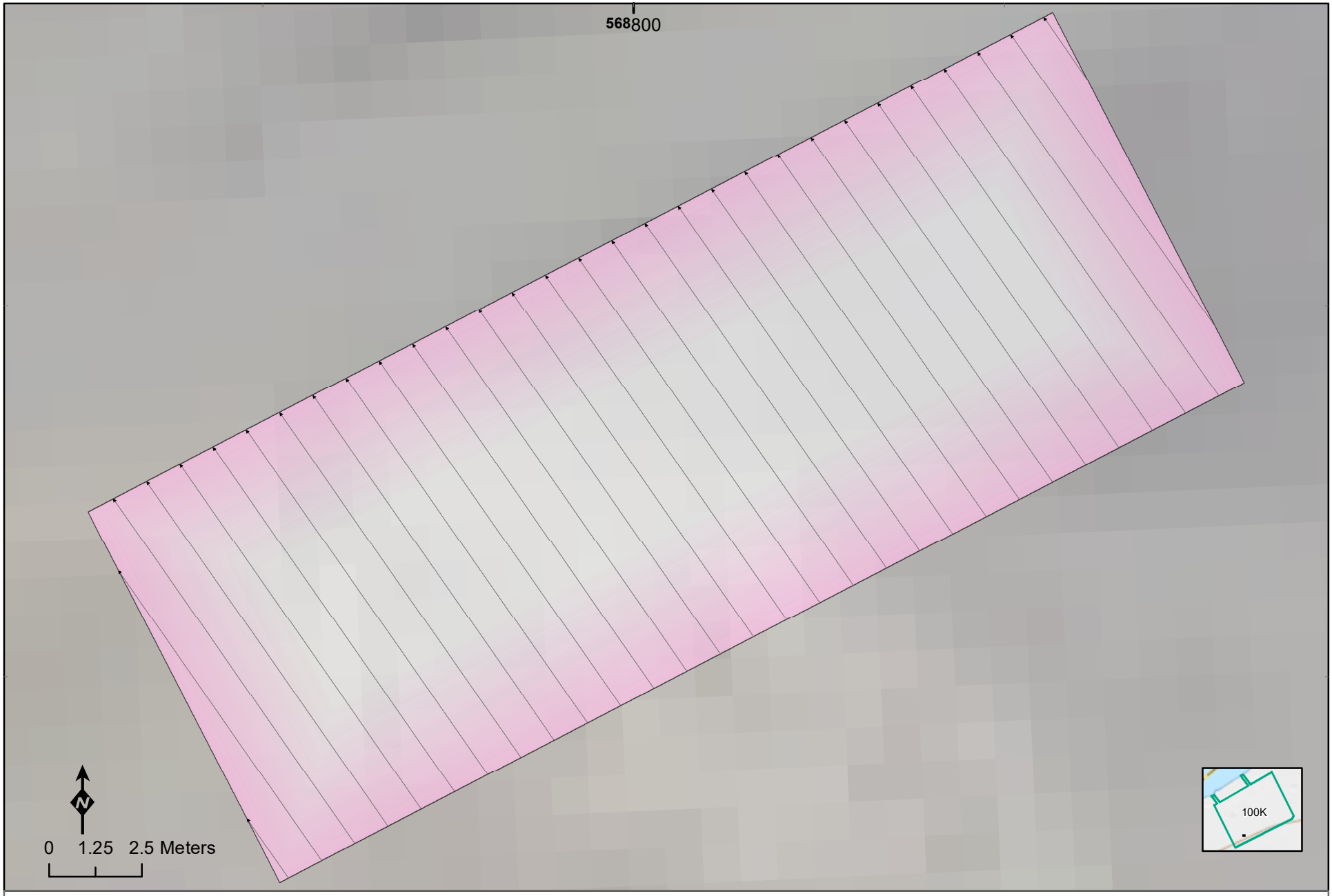


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-115

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
18.2	3.6	57	1.4	19.3

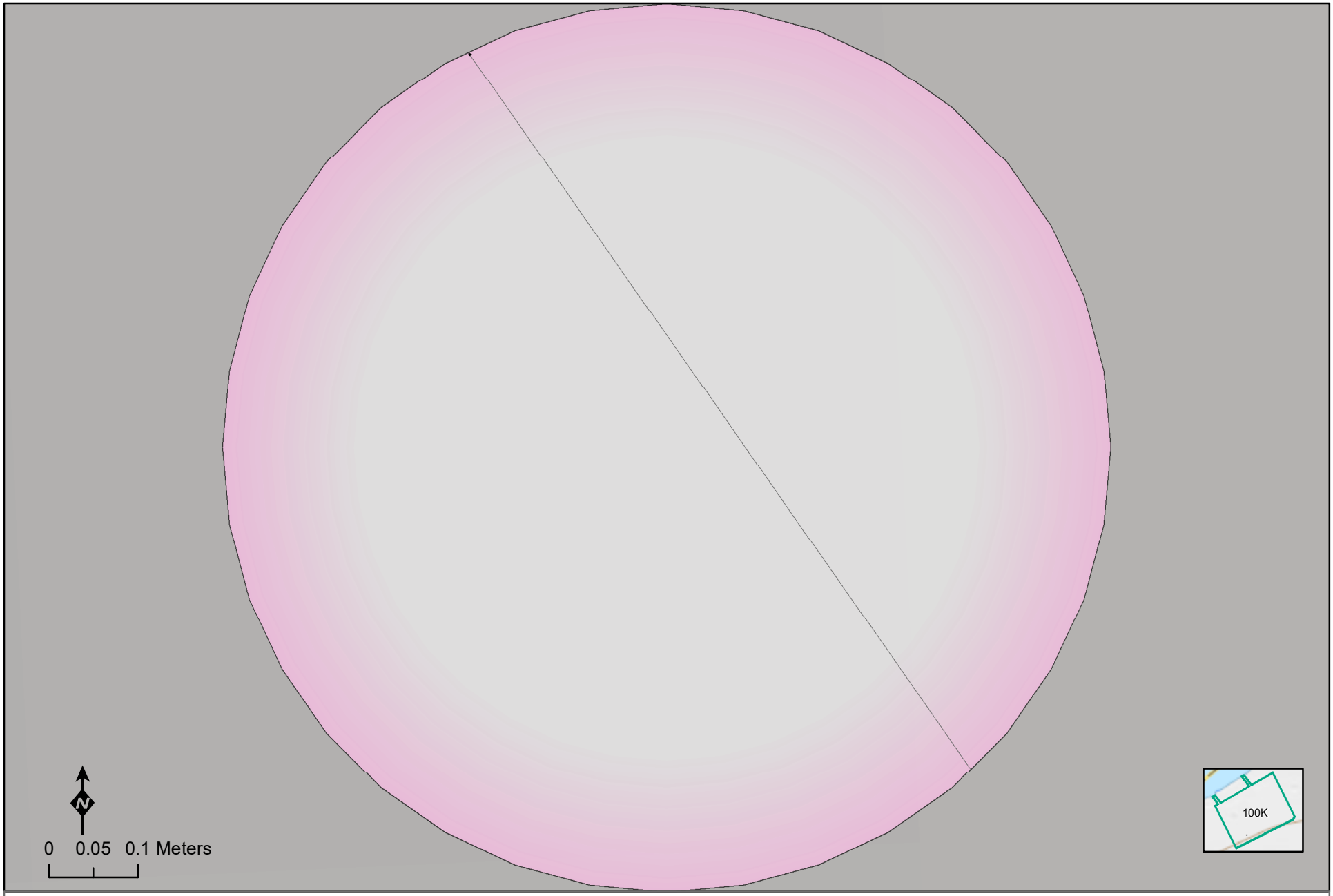


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-117

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
10.6	**2.3**	**31**	**2.0**	**11.4**

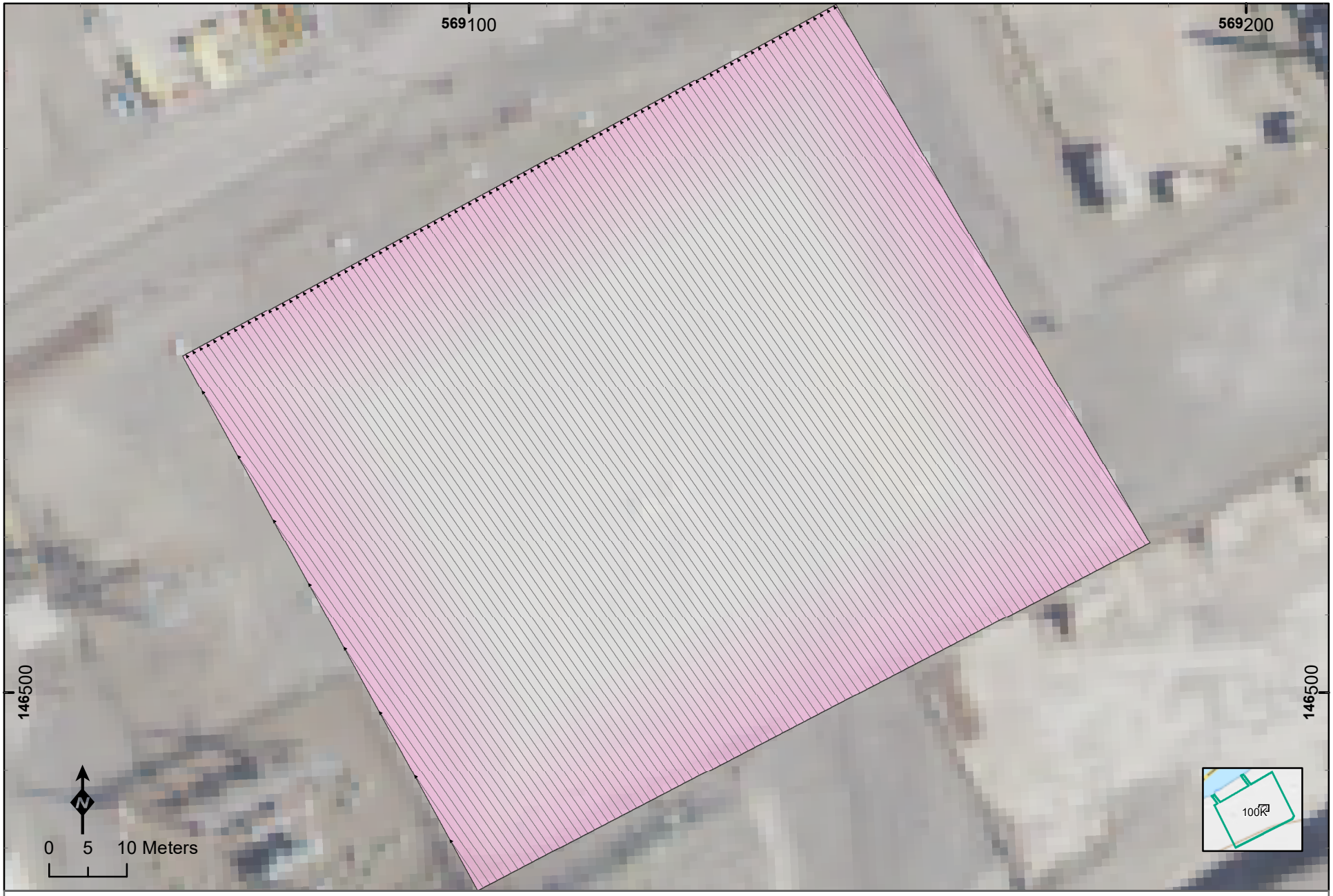


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-118

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.0	**0.0**	**1**	**1.0**	**1.0**

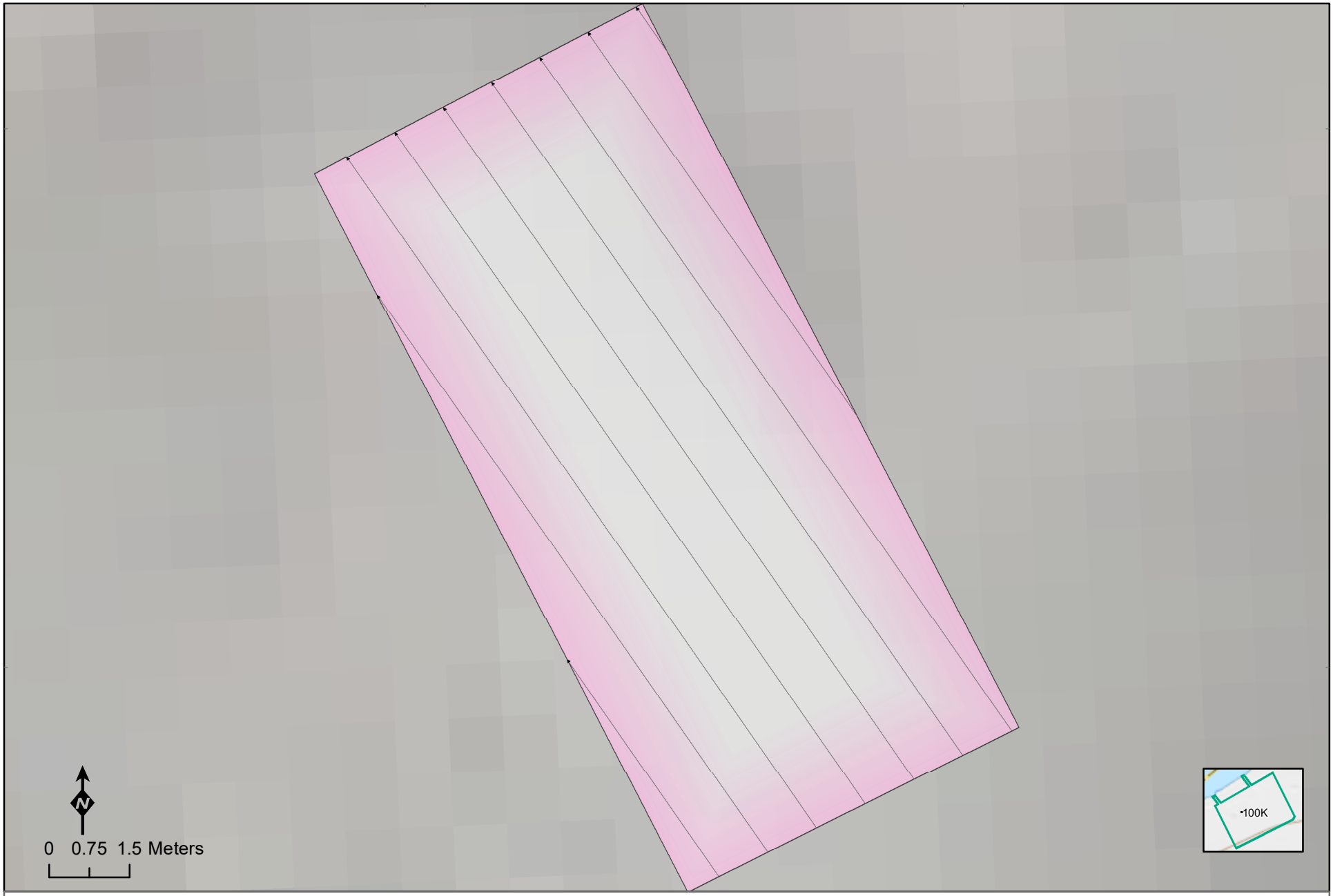


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-119

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
74.2	**16.5**	**103**	**3.7**	**80.7**

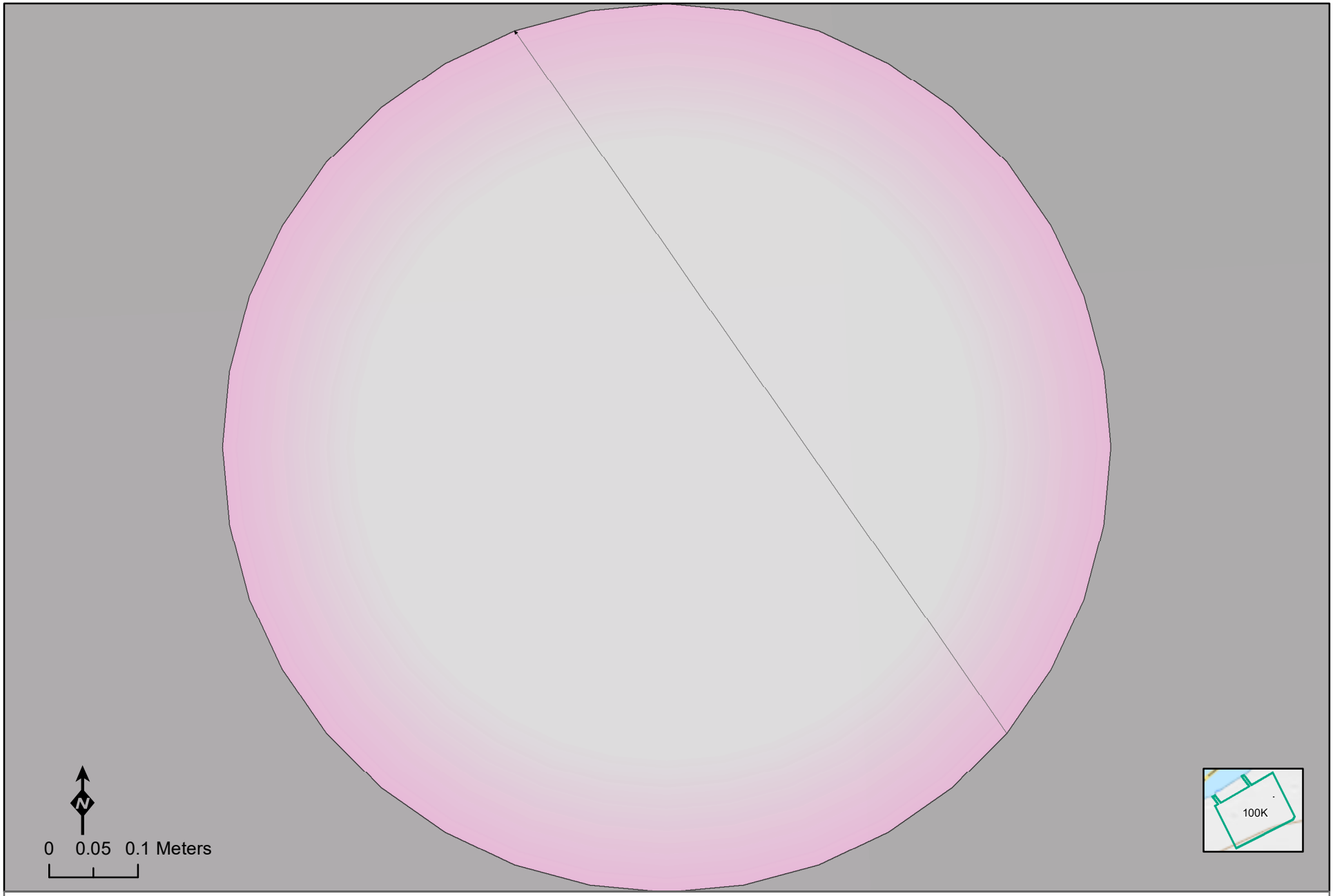


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-120

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
11.5	**5.1**	**9**	**1.0**	**15.3**

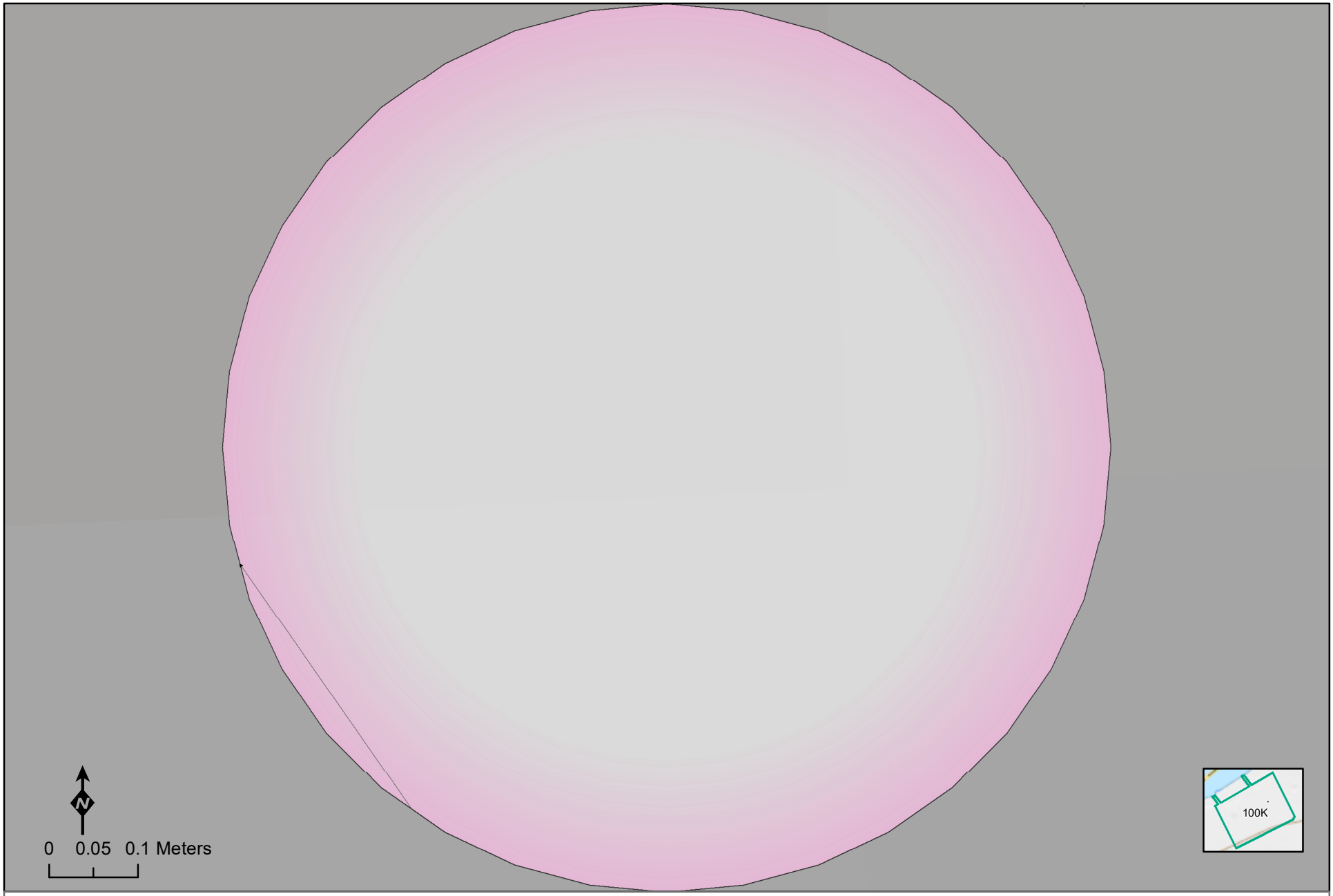


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-121

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.0	**0.0**	**1**	**1.0**	**1.0**

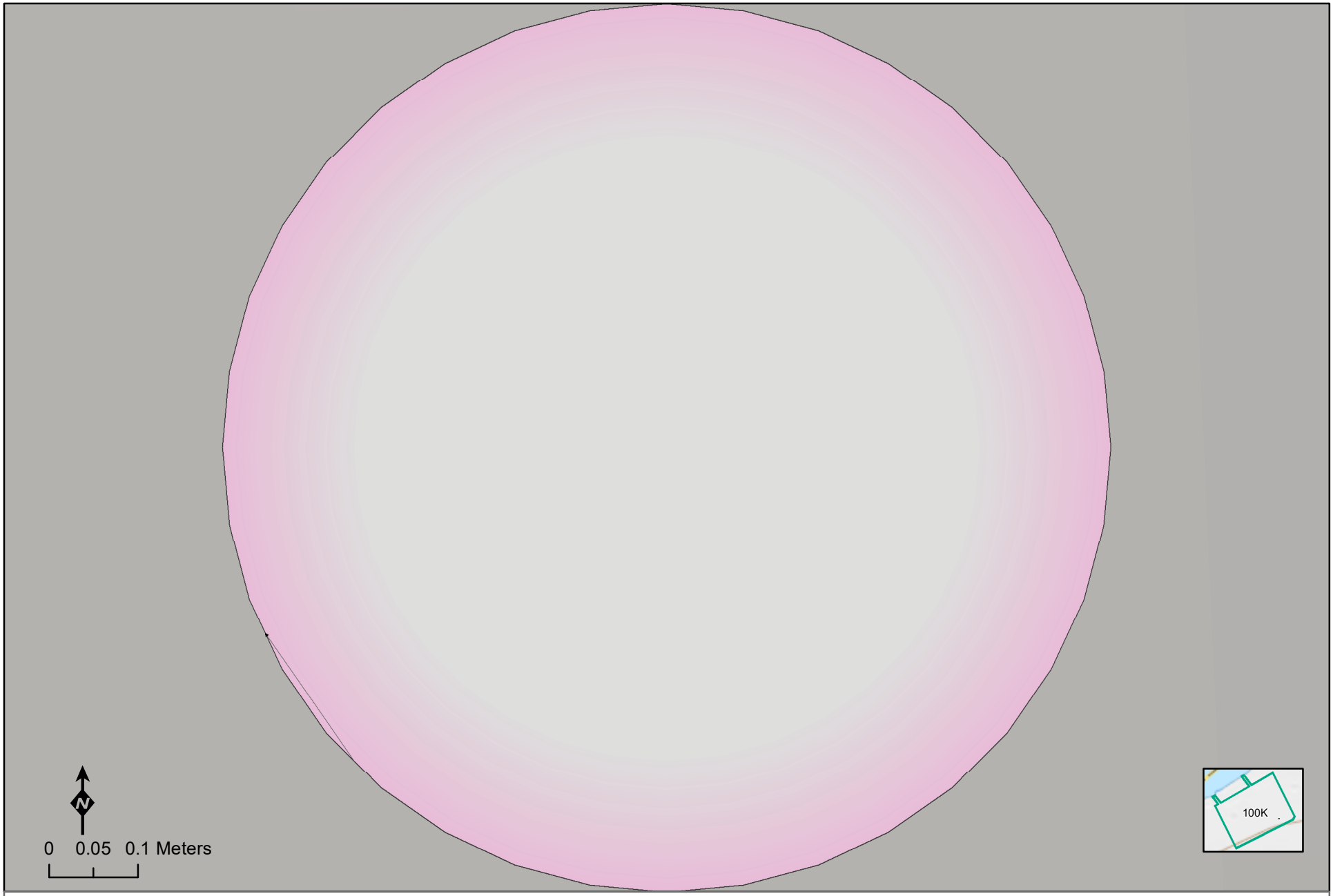


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-122

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
0.3	**0.0**	**1**	**0.3**	**0.3**

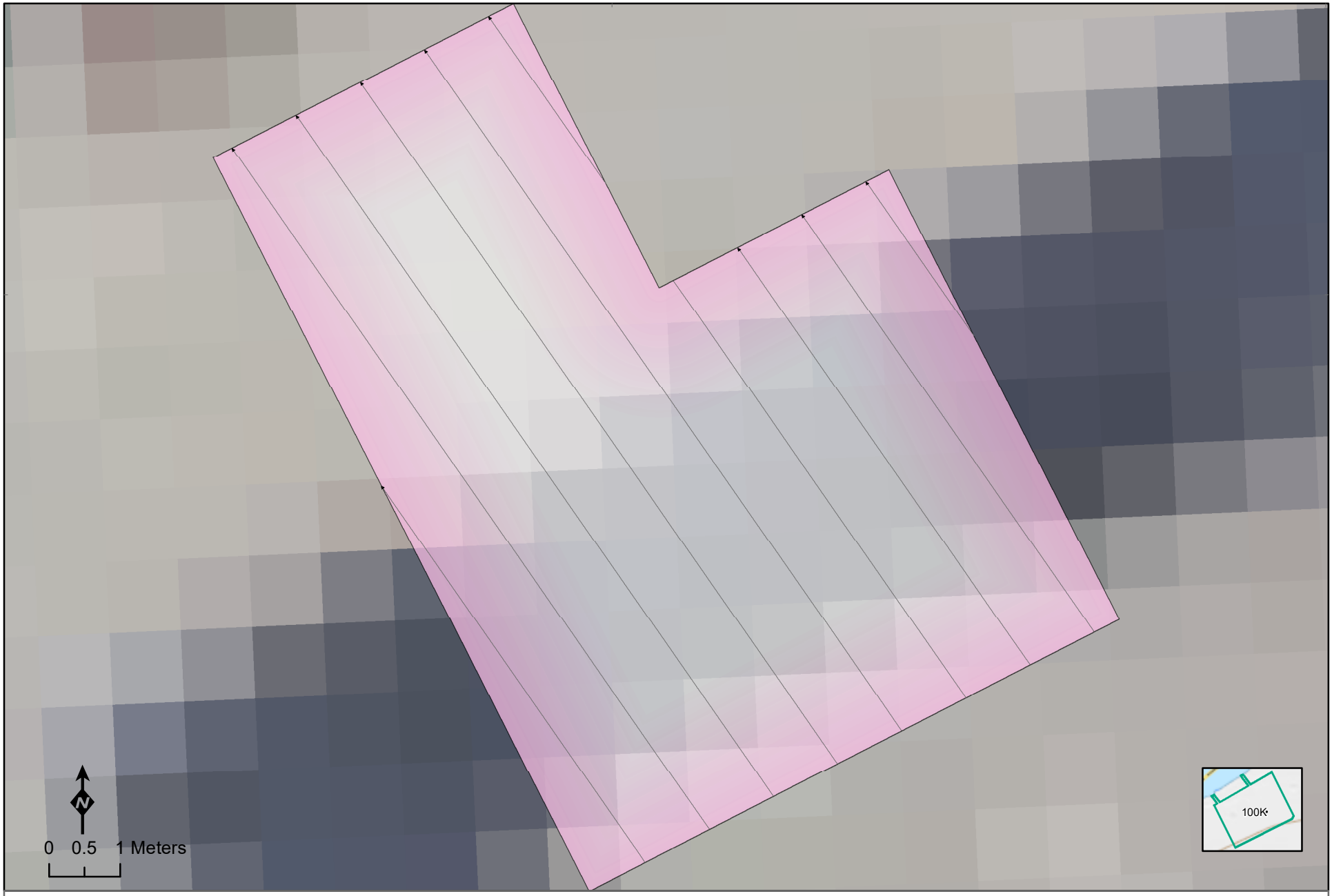


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-123

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
0.2	**0.0**	**1**	**0.2**	**0.2**

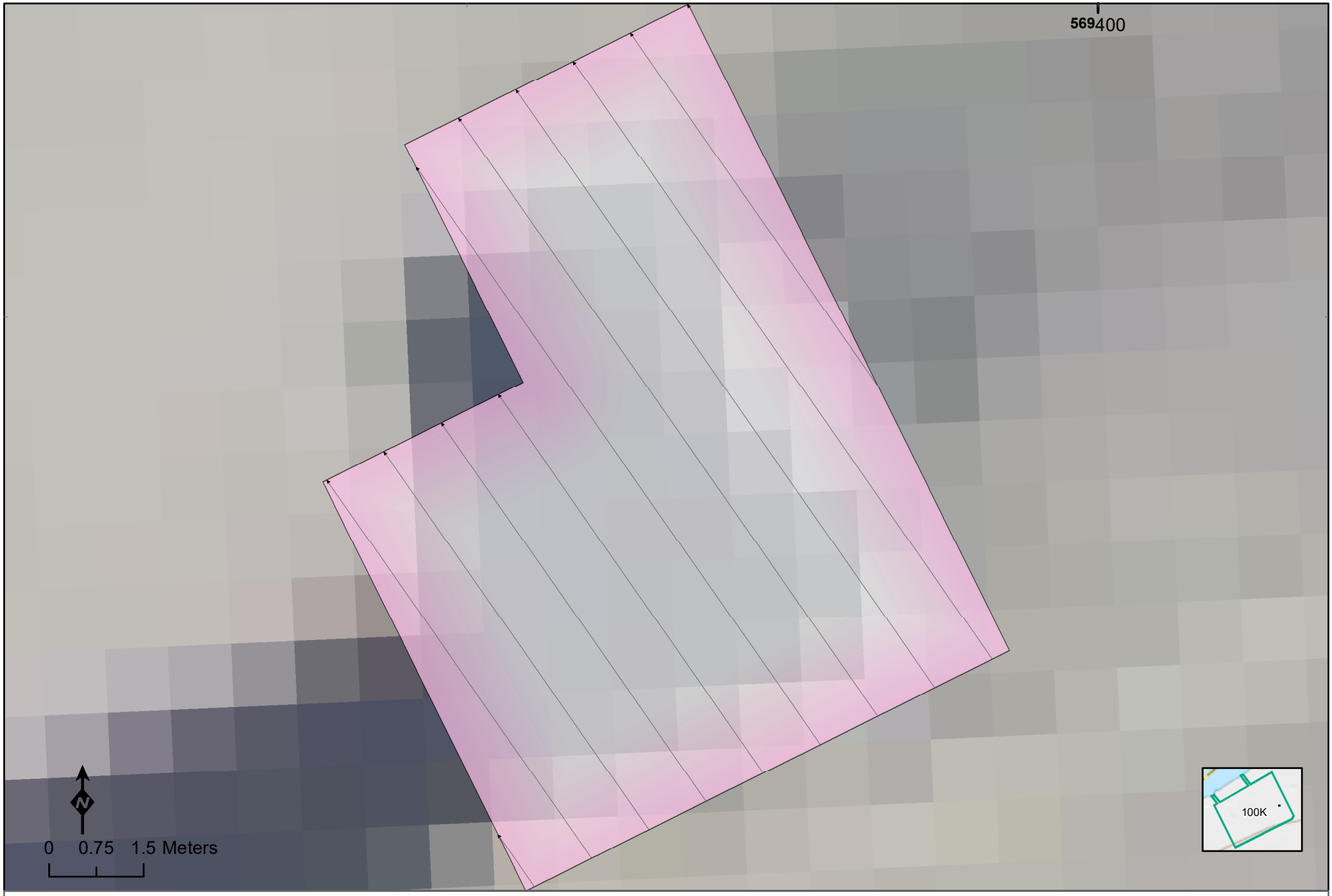


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-124

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
8.9	**3.0**	**9**	**2.6**	**11.7**

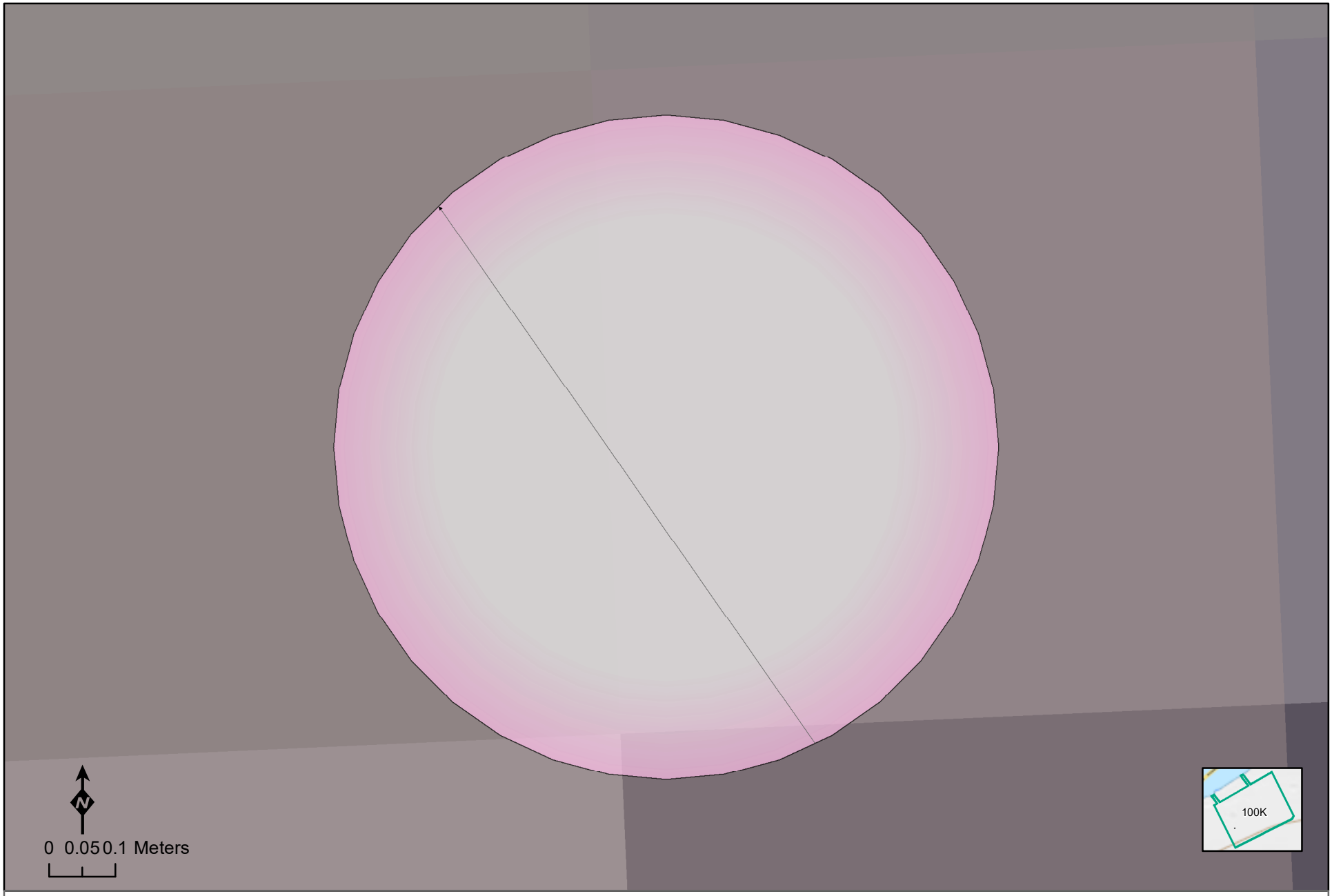


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-125

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
7.6	**3.8**	**11**	**0.1**	**11.6**

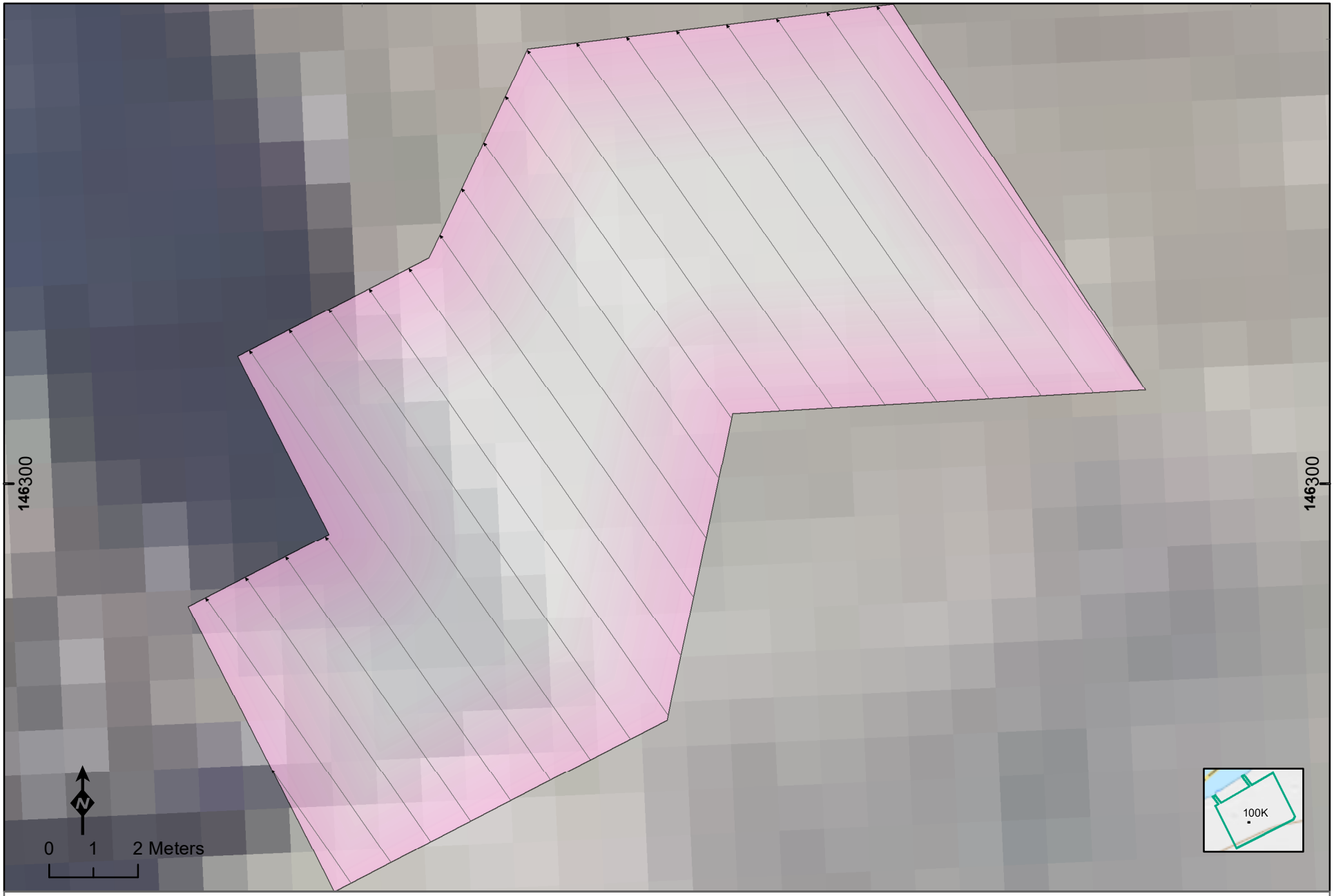


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-126

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.0	**0.0**	**1**	**1.0**	**1.0**

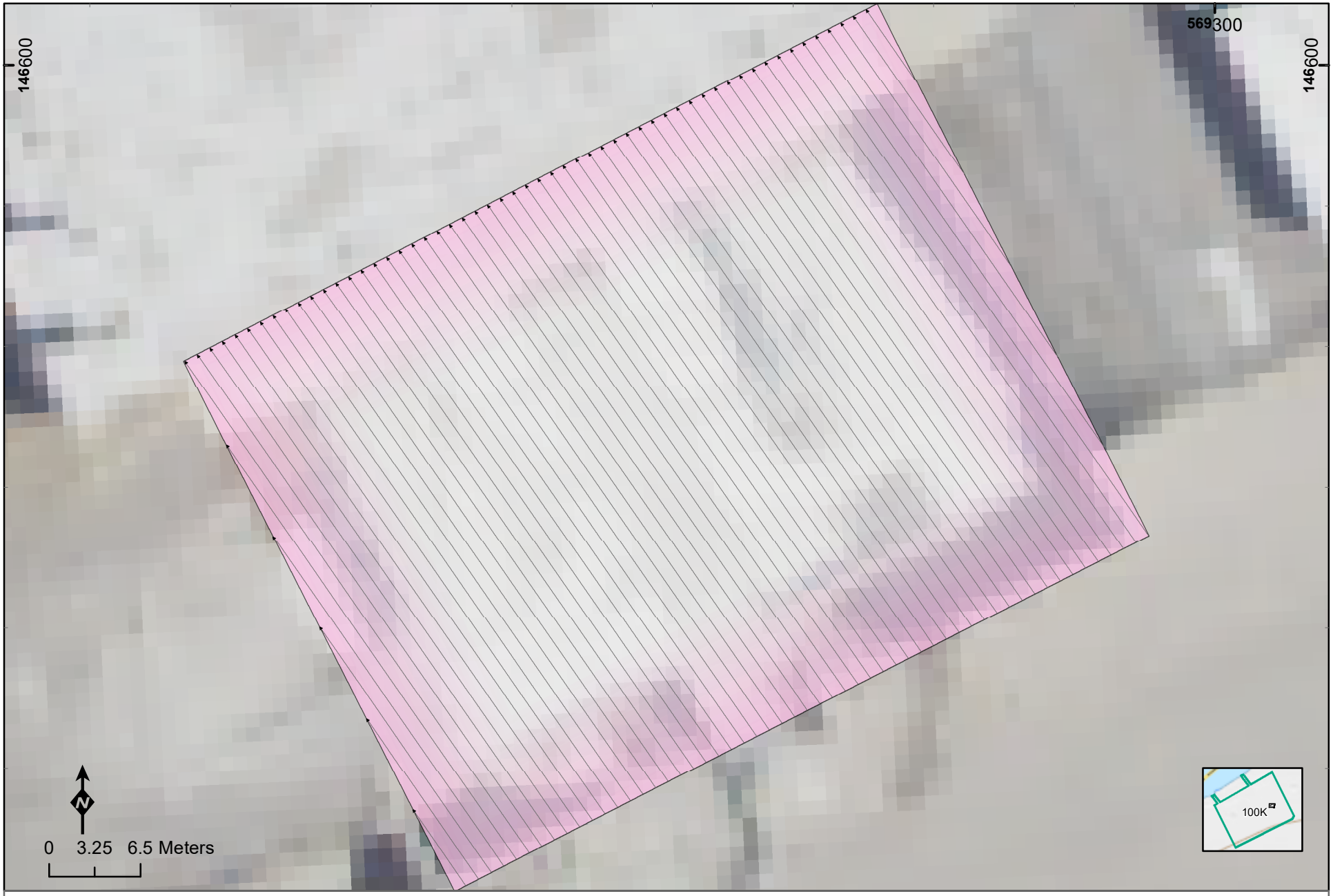


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-127

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
9.5	**2.0**	**22**	**3.1**	**11.8**

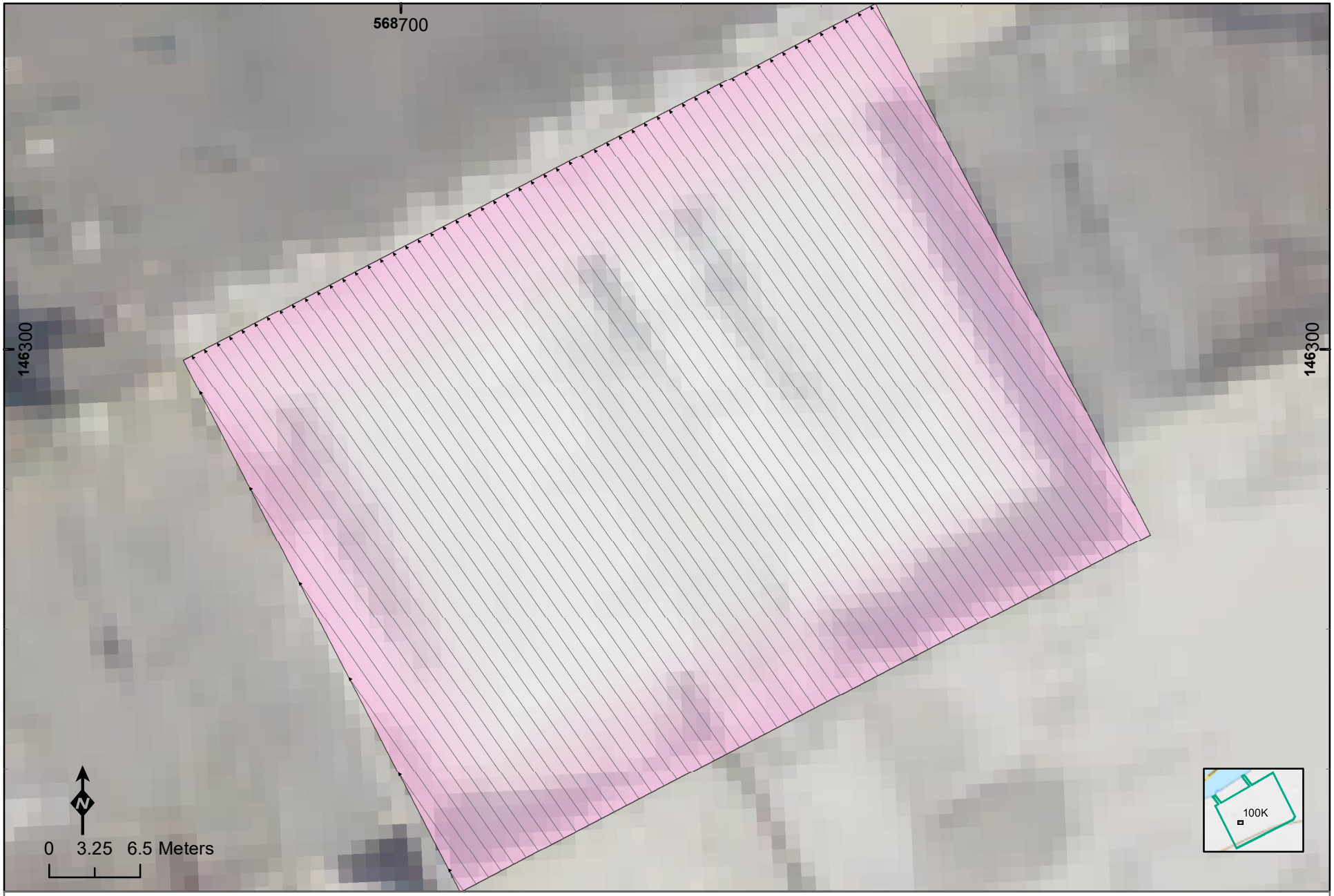


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-128

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
39.2	**9.1**	**60**	**6.4**	**42.9**

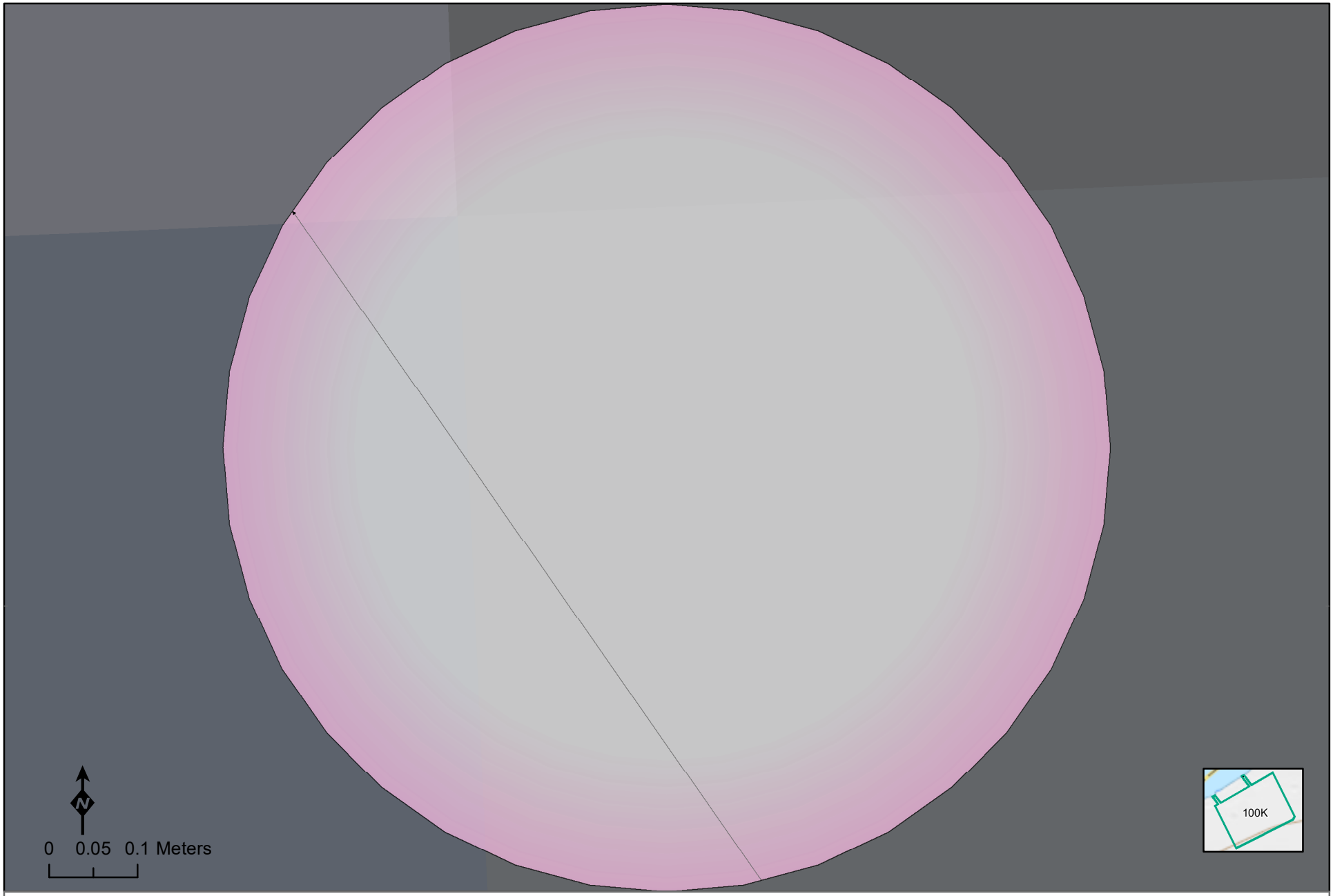


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-129

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
38.9	10.3	61	1.9	43.2

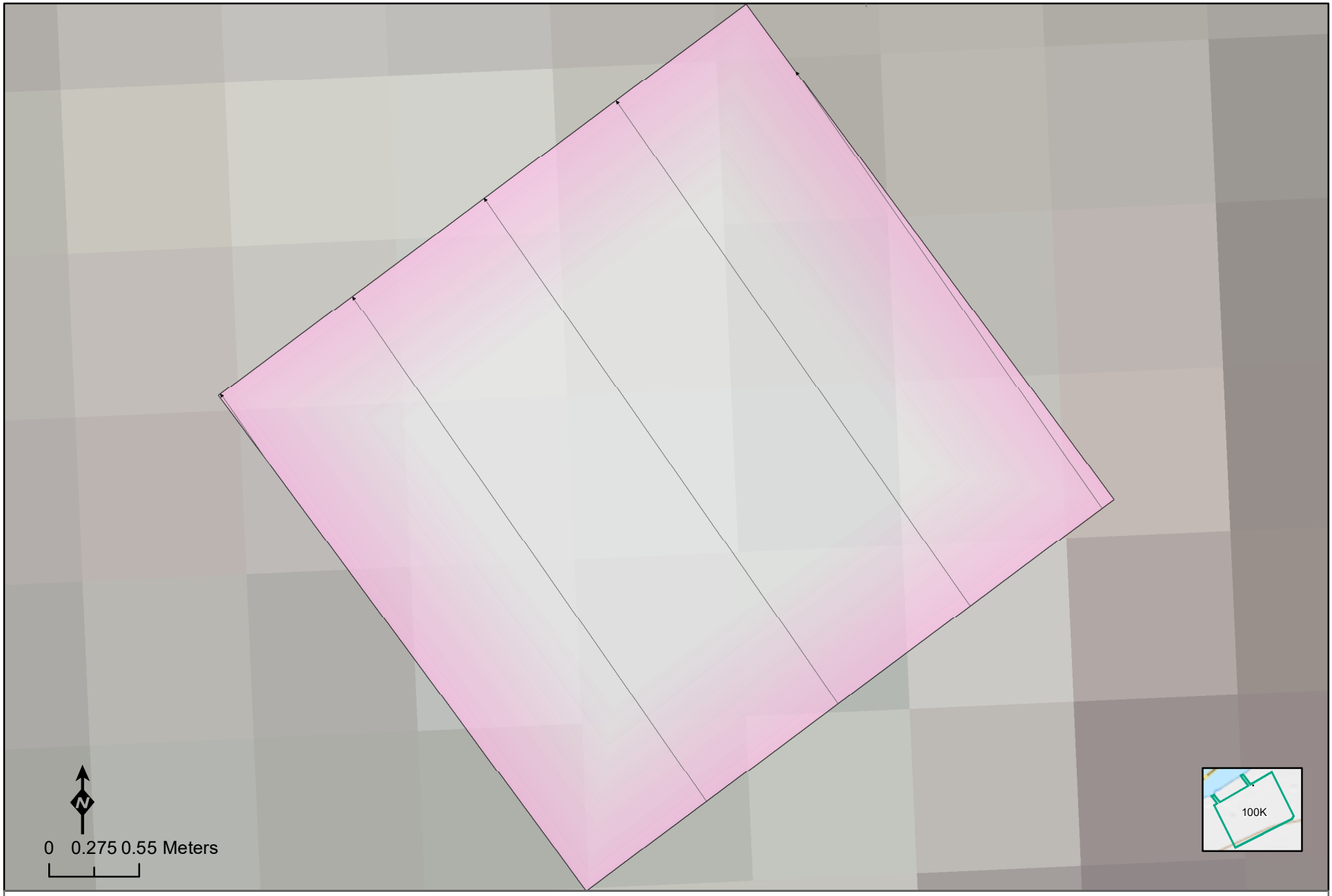


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-130

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
0.9	**0.0**	**1**	**0.9**	**0.9**

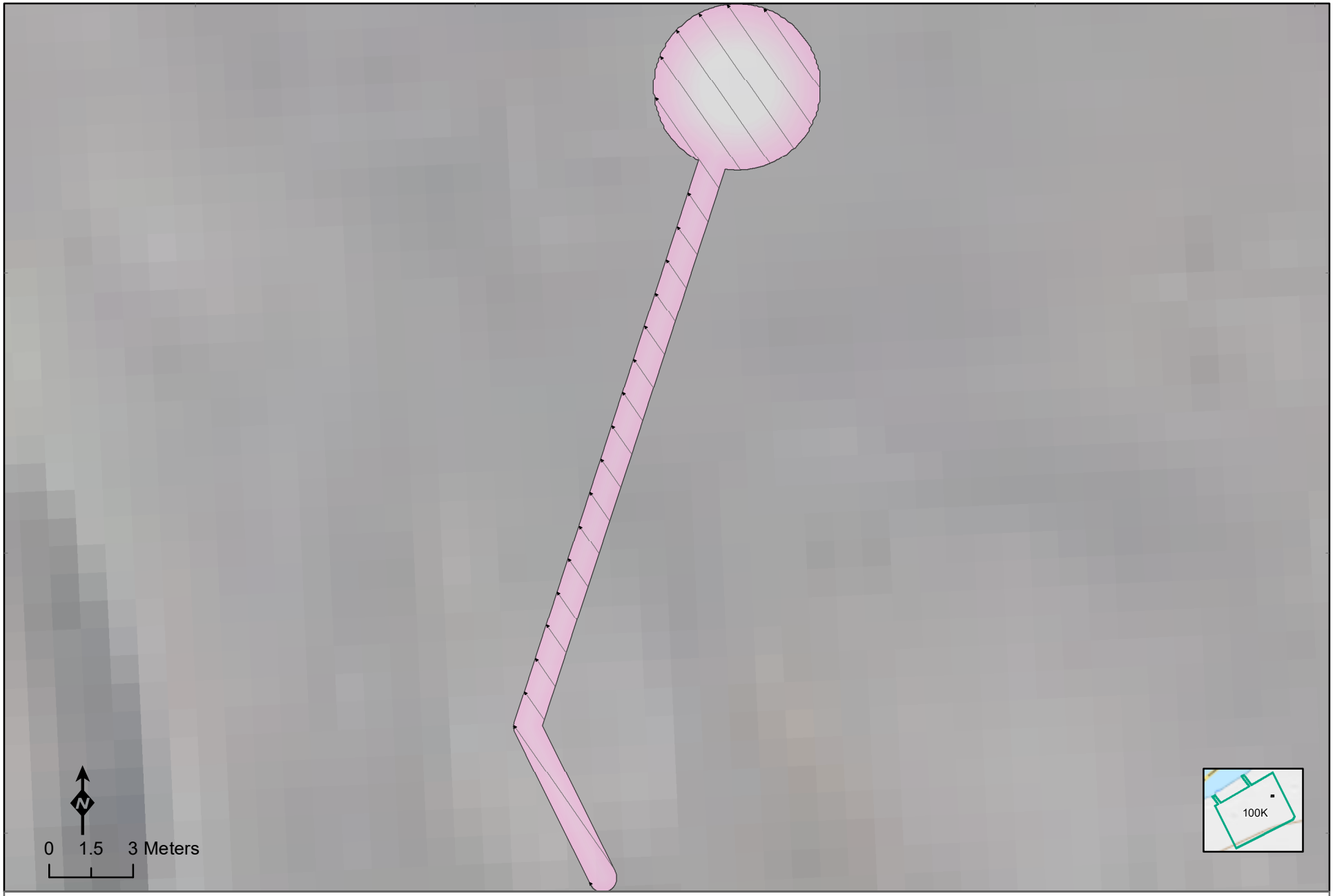


Representative Lineal Dimension (RLD) Methods for Decision Unit:

100-K-131

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
3.0	**1.3**	**5**	**0.5**	**3.8**

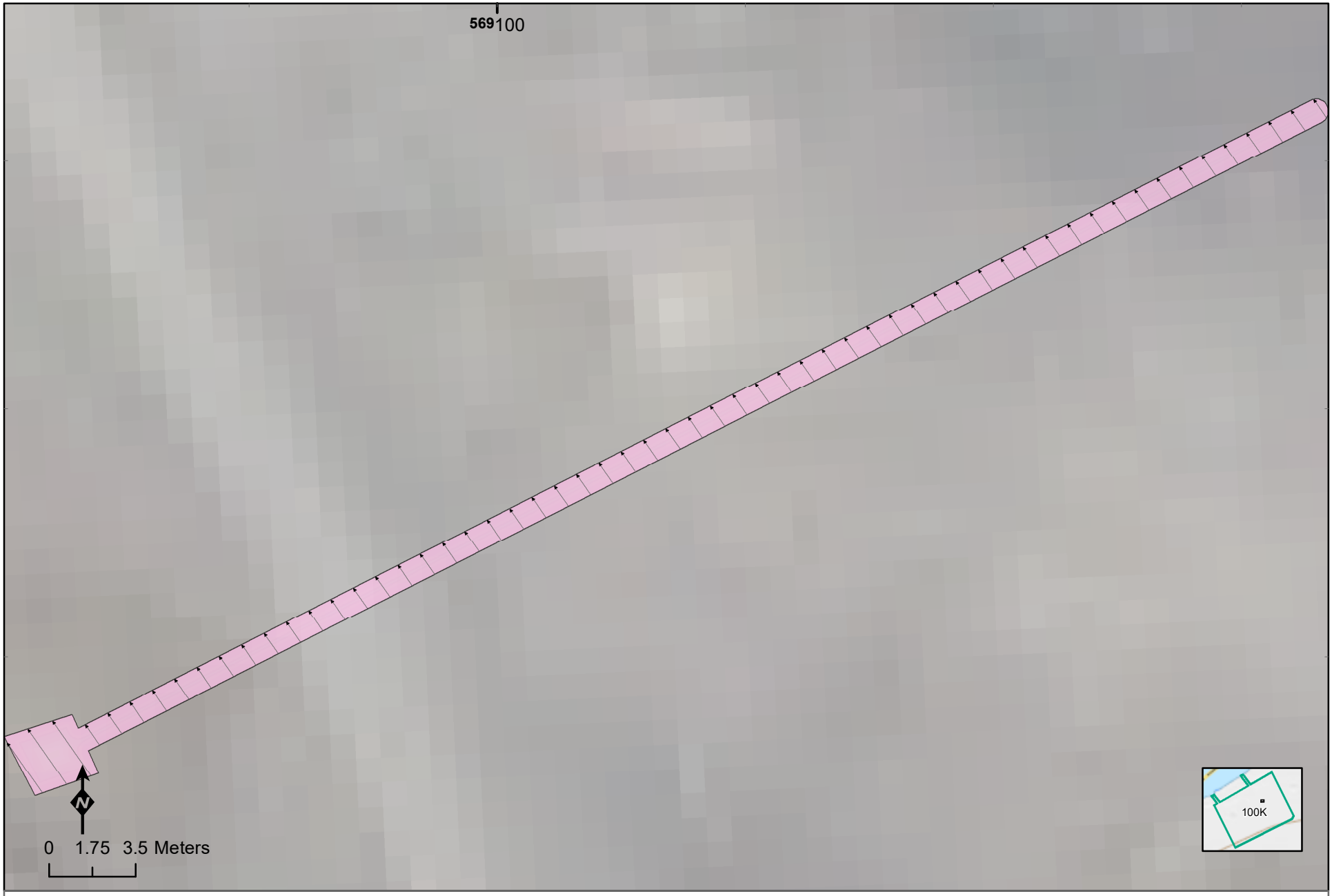


Representative Lineal Dimension (RLD) Methods for Decision Unit:

116-KE-1

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
2.3	**1.9**	**24**	**0.3**	**6.2**

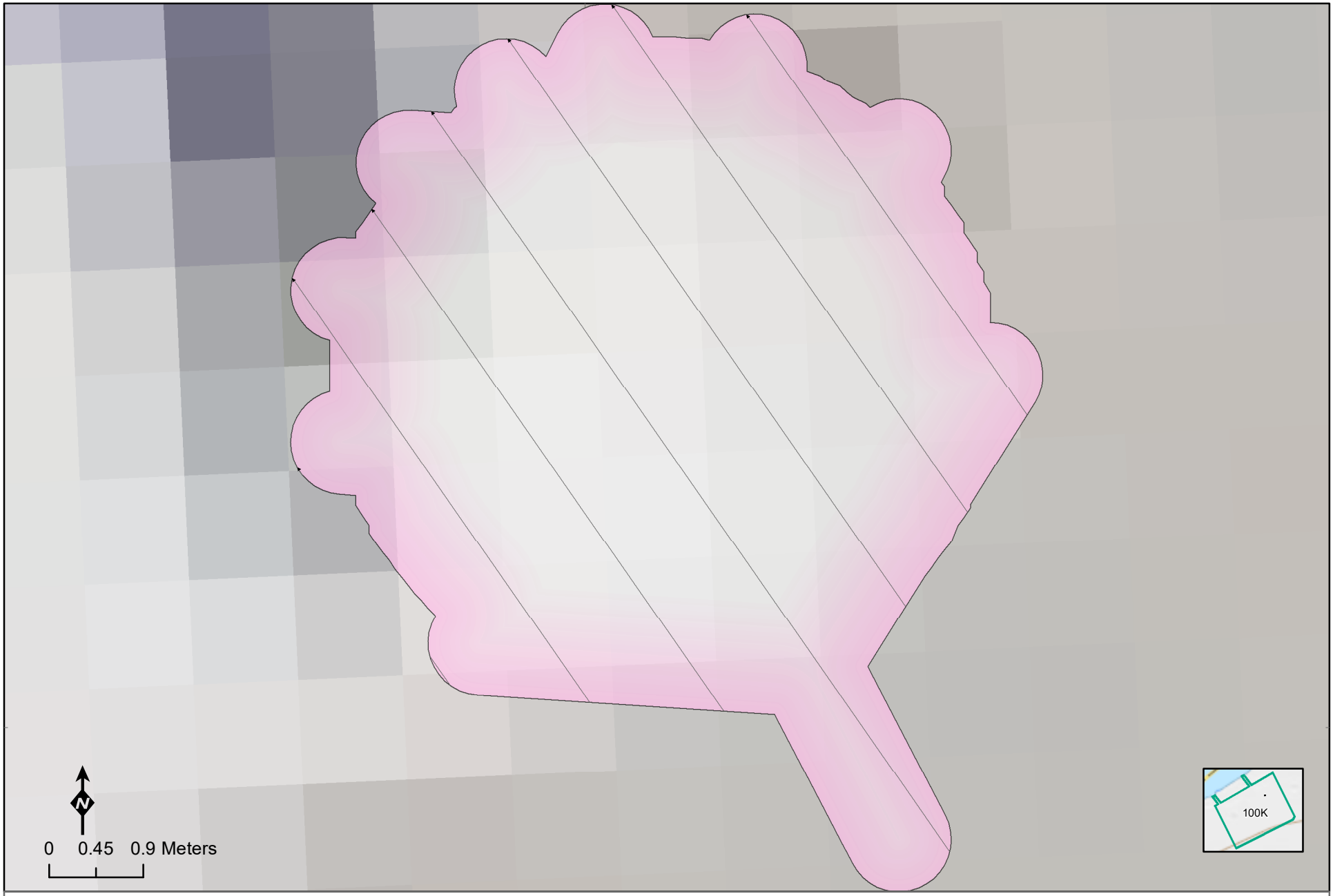


Representative Lineal Dimension (RLD) Methods for Decision Unit:

116-KE-2

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.1	**0.4**	**59**	**0.9**	**2.7**



Representative Lineal Dimension (RLD) Methods for Decision Unit:

116-KE-3

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
5.3	**2.3**	**7**	**0.4**	**8.6**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

116-KE-4

Intersected Flow Vectors Statistics

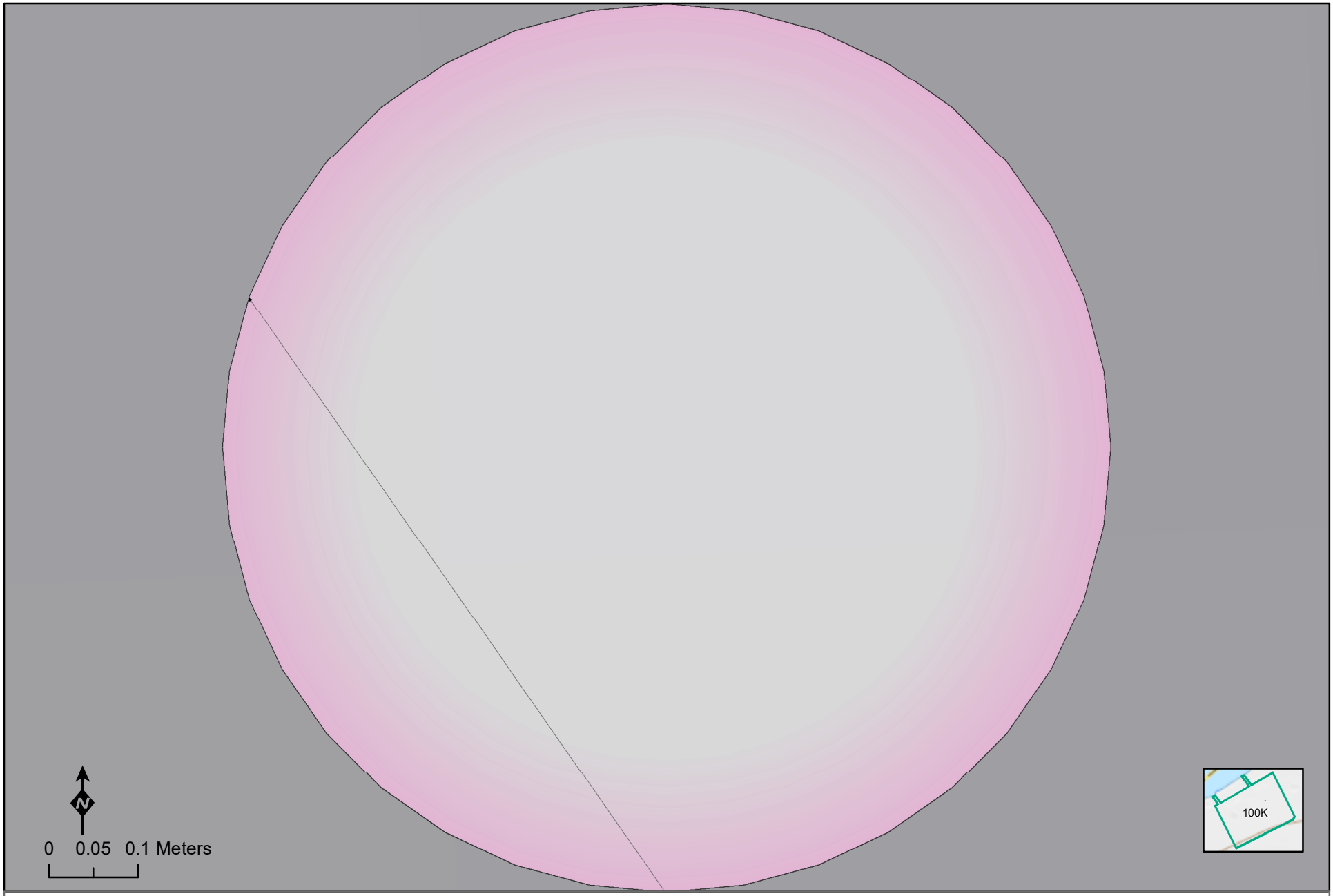
Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
113.1	19.0	278	2.3	134.3

Representative Lineal Dimension (RLD) Methods for Decision Unit:

116-KE-5

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
31.2	**9.9**	**47**	**1.2**	**37.0**

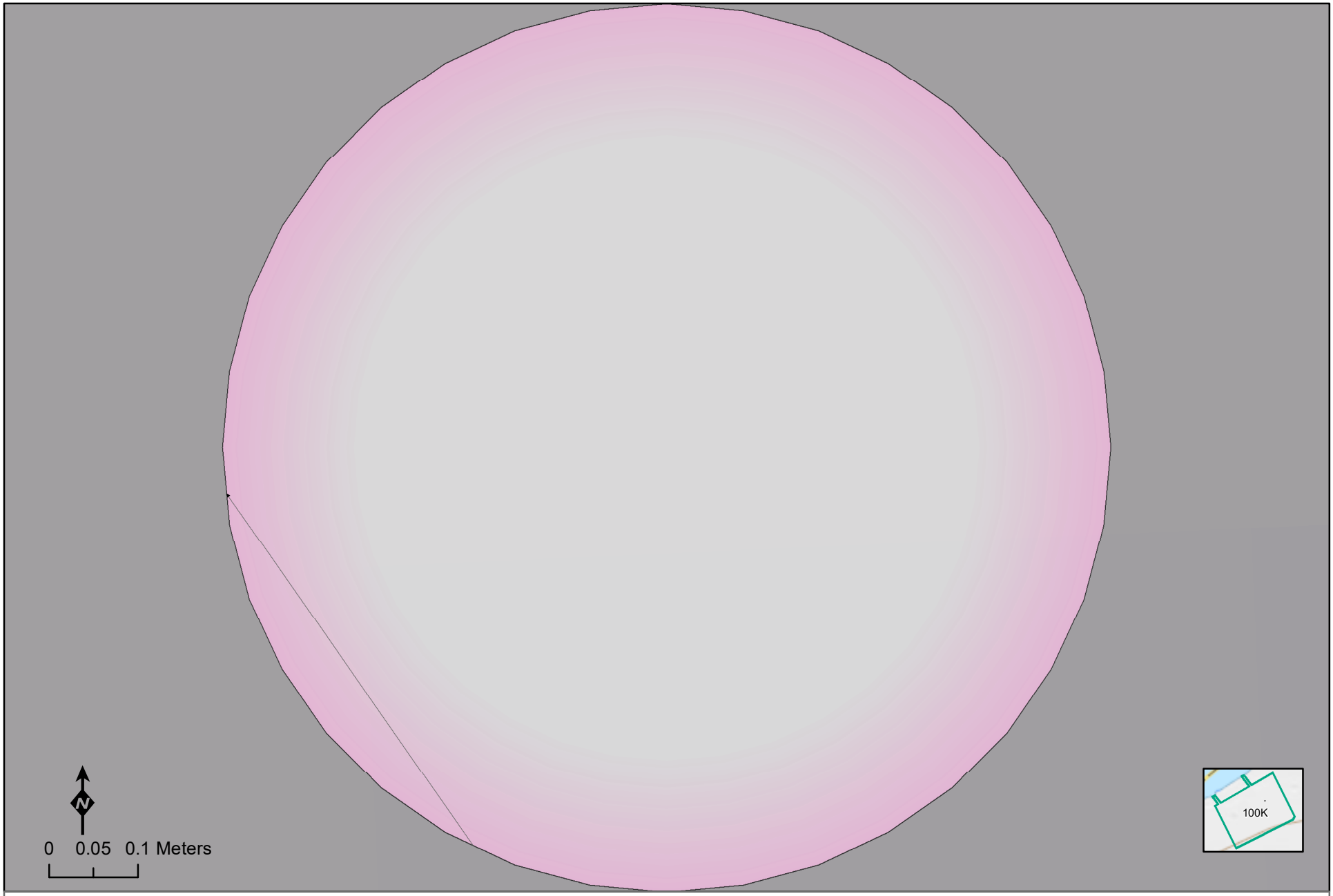


Representative Lineal Dimension (RLD) Methods for Decision Unit:

116-KE-6A

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
0.8	**0.0**	**1**	**0.8**	**0.8**

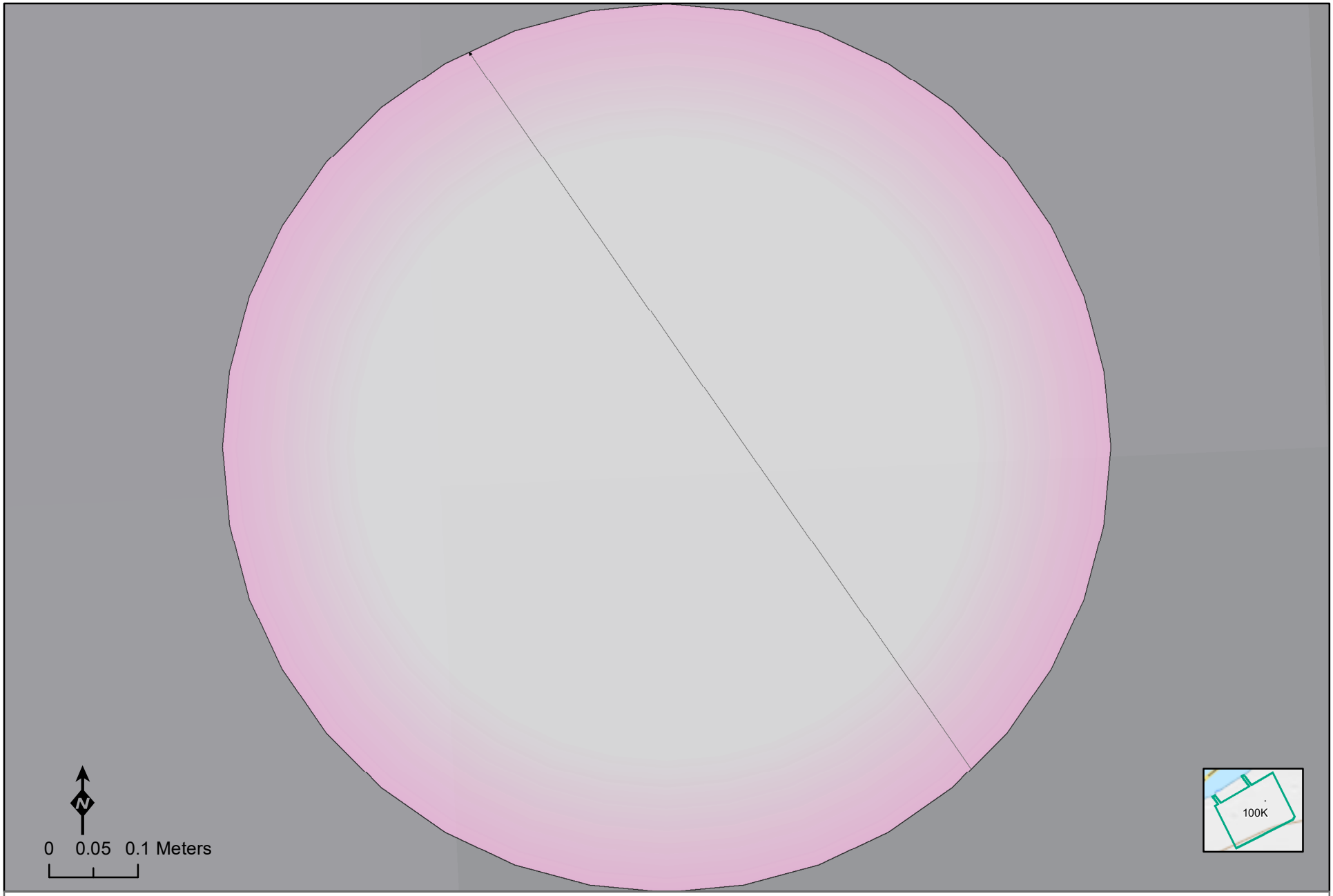


Representative Lineal Dimension (RLD) Methods for Decision Unit:

116-KE-6B

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
0.5	**0.0**	**1**	**0.5**	**0.5**

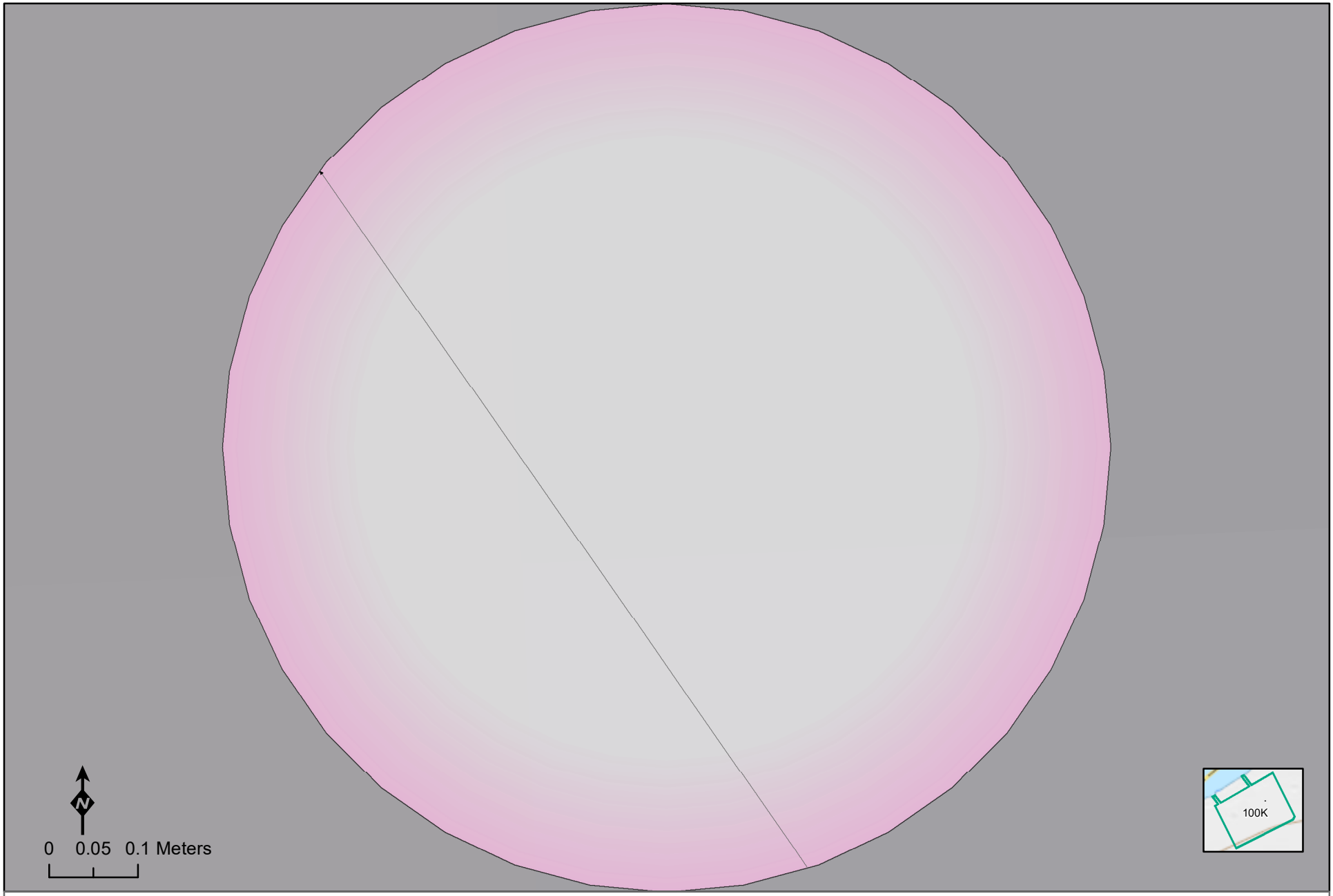


Representative Lineal Dimension (RLD) Methods for Decision Unit:

116-KE-6C

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.0	**0.0**	**1**	**1.0**	**1.0**



Representative Lineal Dimension (RLD) Methods for Decision Unit:

116-KE-6D

Intersected Flow Vectors Statistics

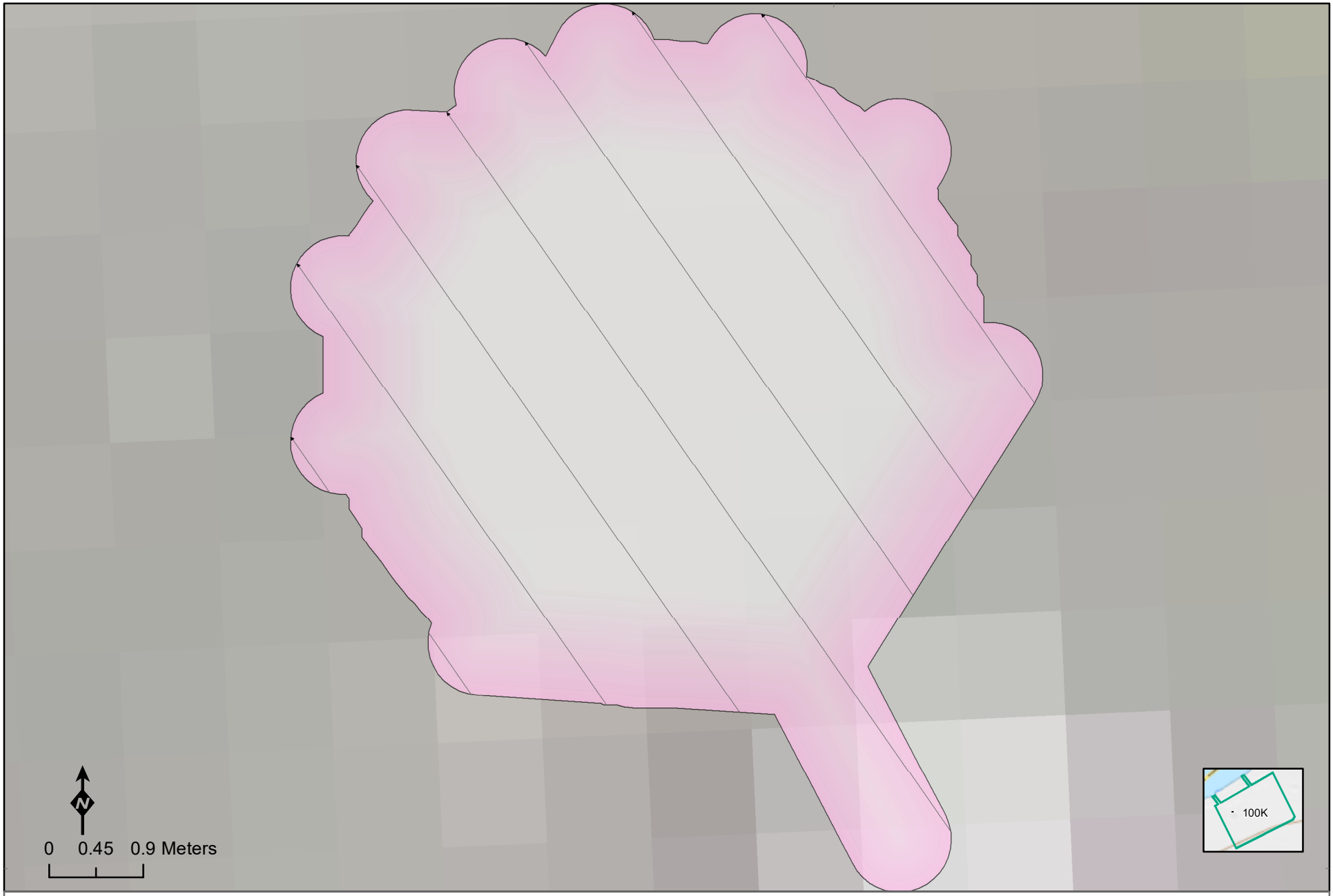
Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.0	**0.0**	**1**	**1.0**	**1.0**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

116-KW-1

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
2.5	**1.8**	**22**	**1.3**	**6.0**



Representative Lineal Dimension (RLD) Methods for Decision Unit:

116-KW-2

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
5.4	**2.0**	**7**	**1.4**	**8.4**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

116-KW-3

Intersected Flow Vectors Statistics

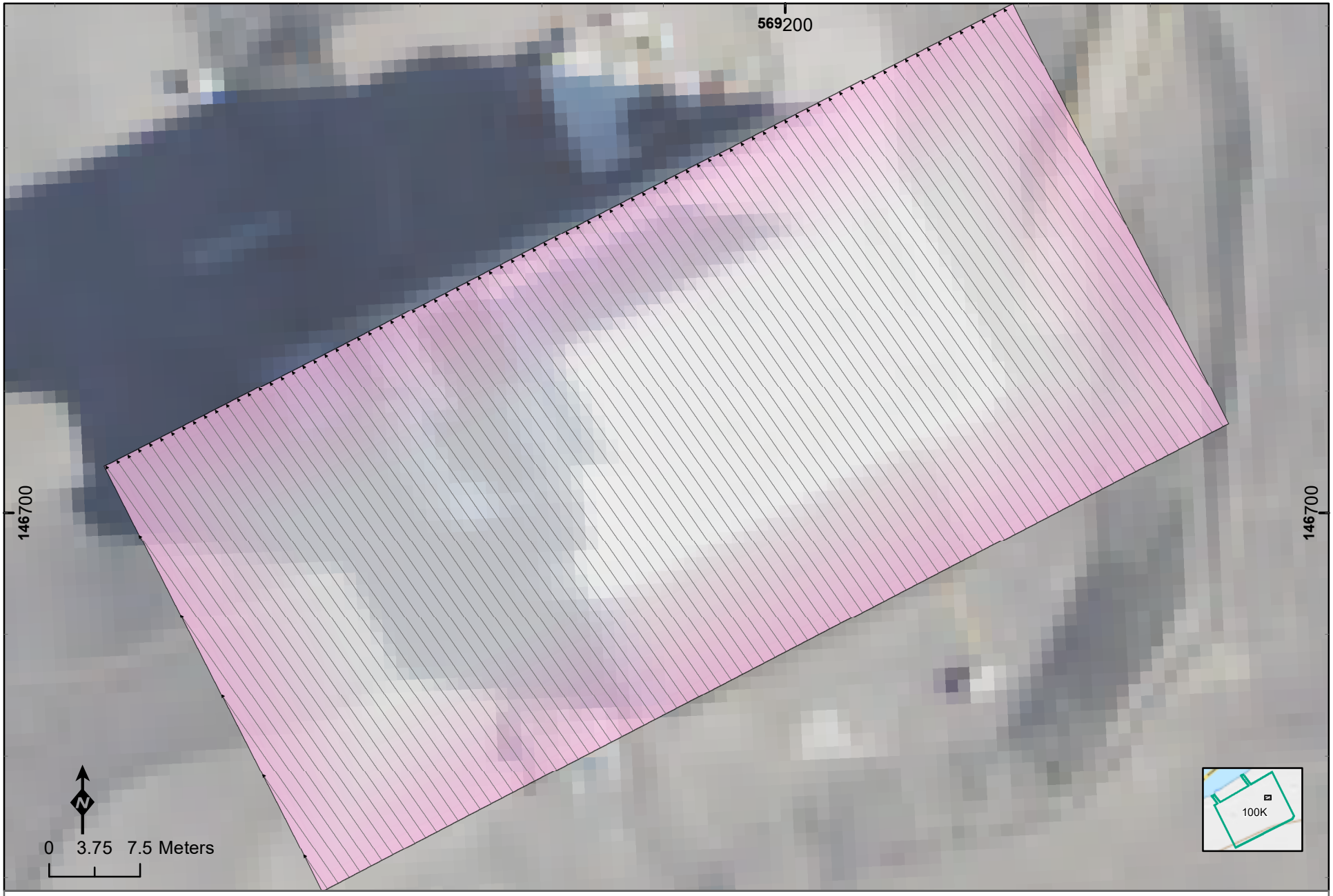
Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
111.3	**17.1**	**277**	**20.3**	**130.6**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

116-KW-4

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
31.3	**9.6**	**47**	**3.1**	**37.0**

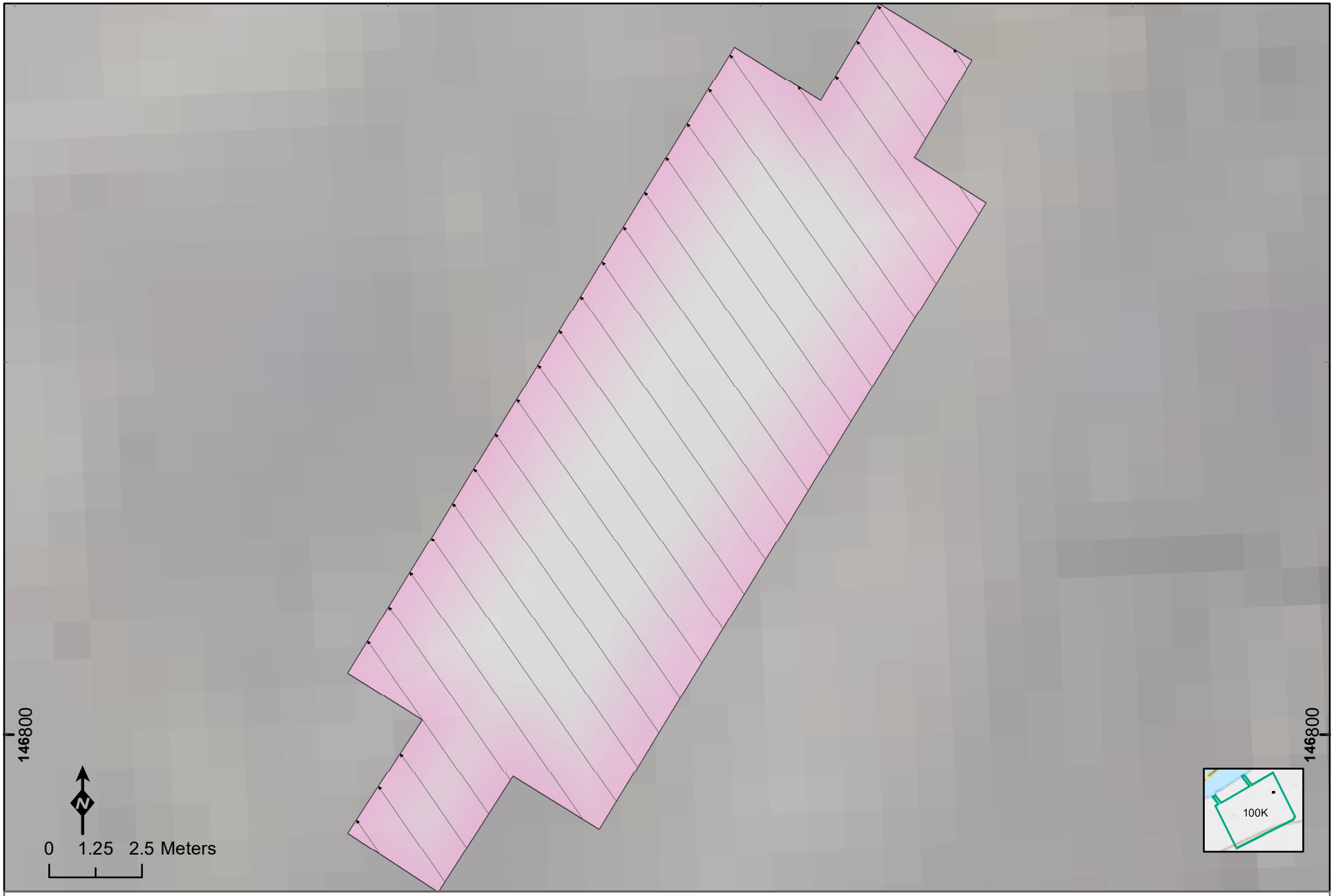


Representative Lineal Dimension (RLD) Methods for Decision Unit:

118-KE-1

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
37.1	**7.2**	**88**	**3.4**	**39.6**



Representative Lineal Dimension (RLD) Methods for Decision Unit:

118-KE-2

Intersected Flow Vectors Statistics

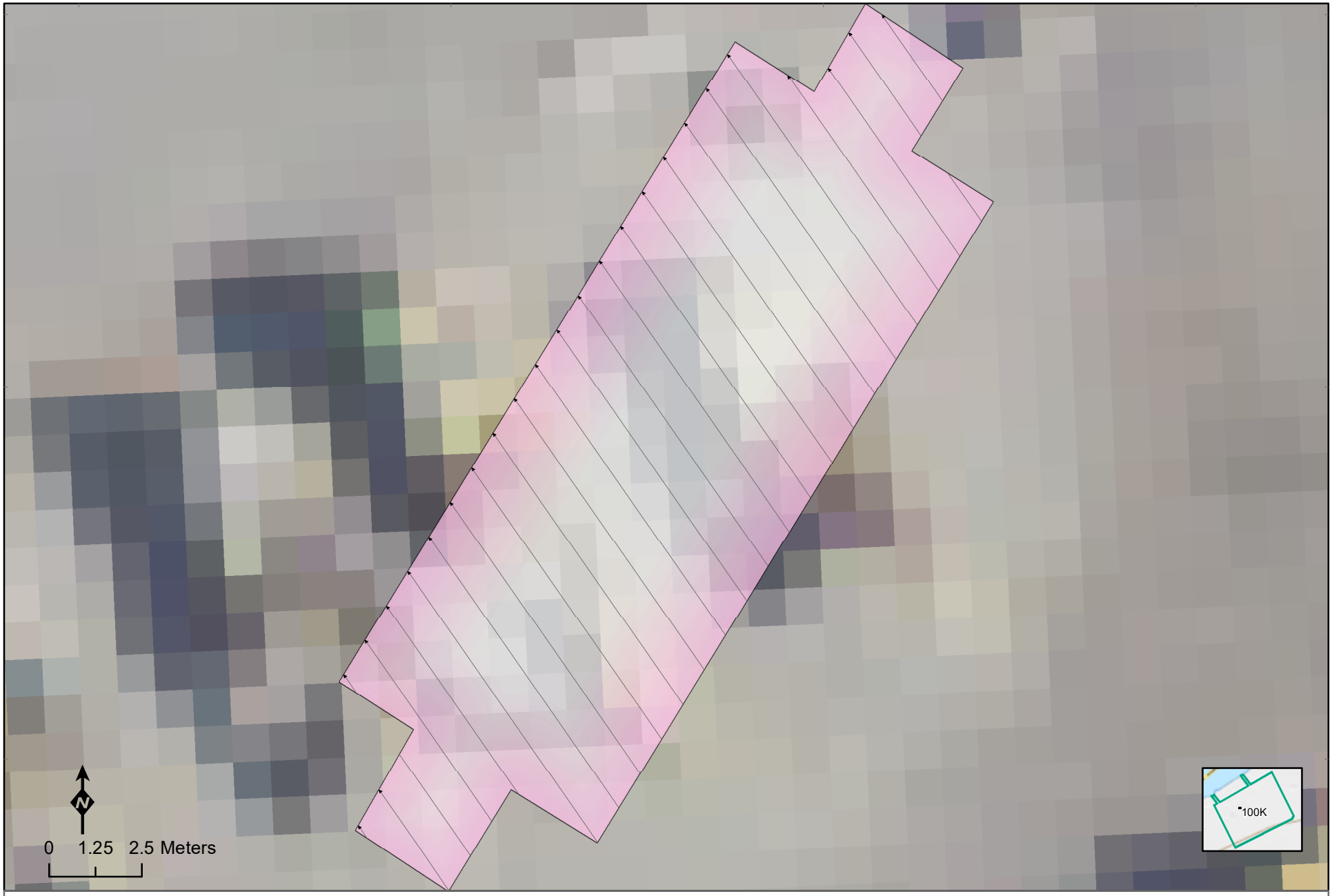
Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
6.8	**2.6**	**26**	**0.6**	**8.7**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

118-KW-1

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
36.8	**7.9**	**89**	**0.7**	**39.6**

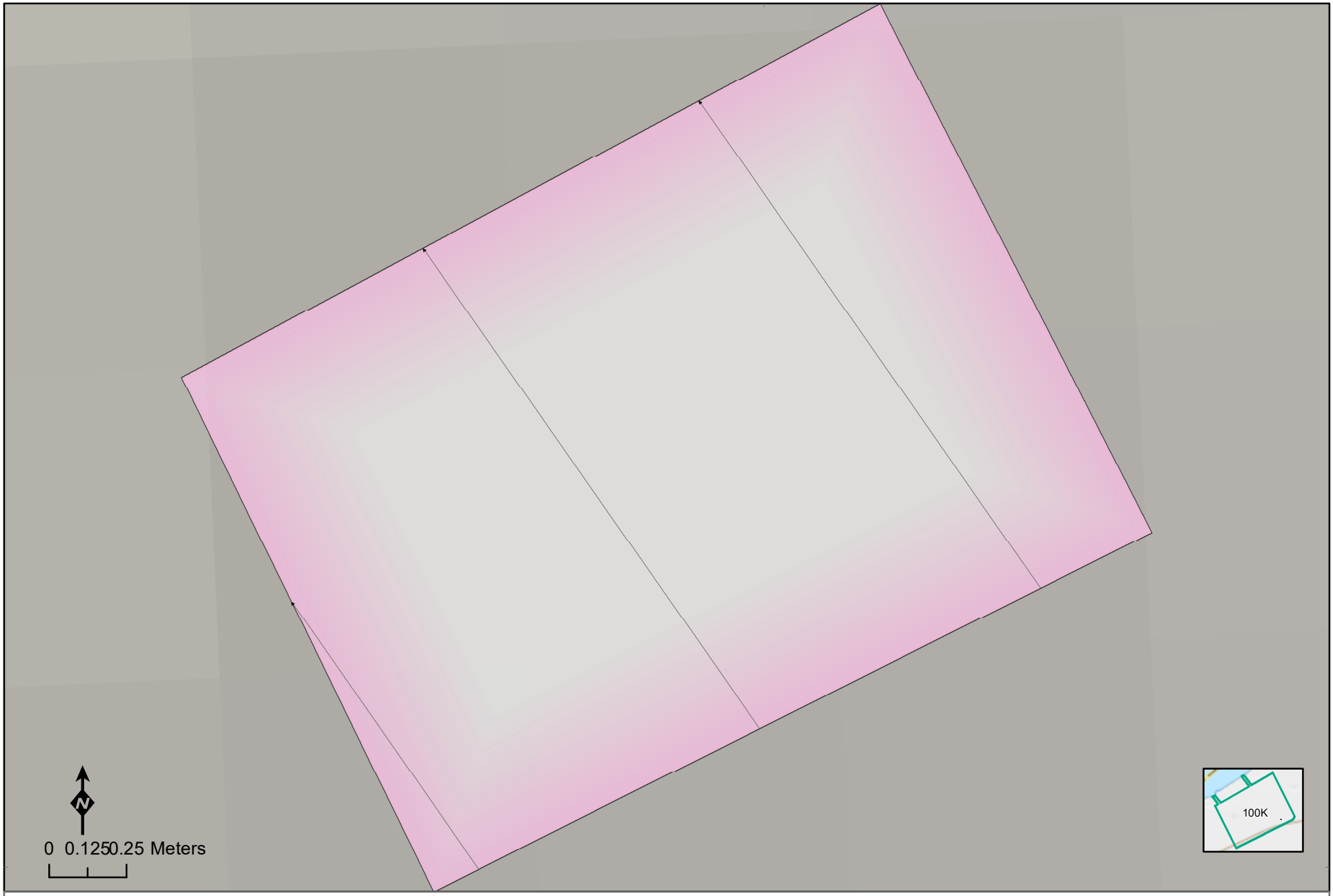


Representative Lineal Dimension (RLD) Methods for Decision Unit:

118-KW-2

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
7.3	**2.4**	**25**	**0.4**	**8.9**

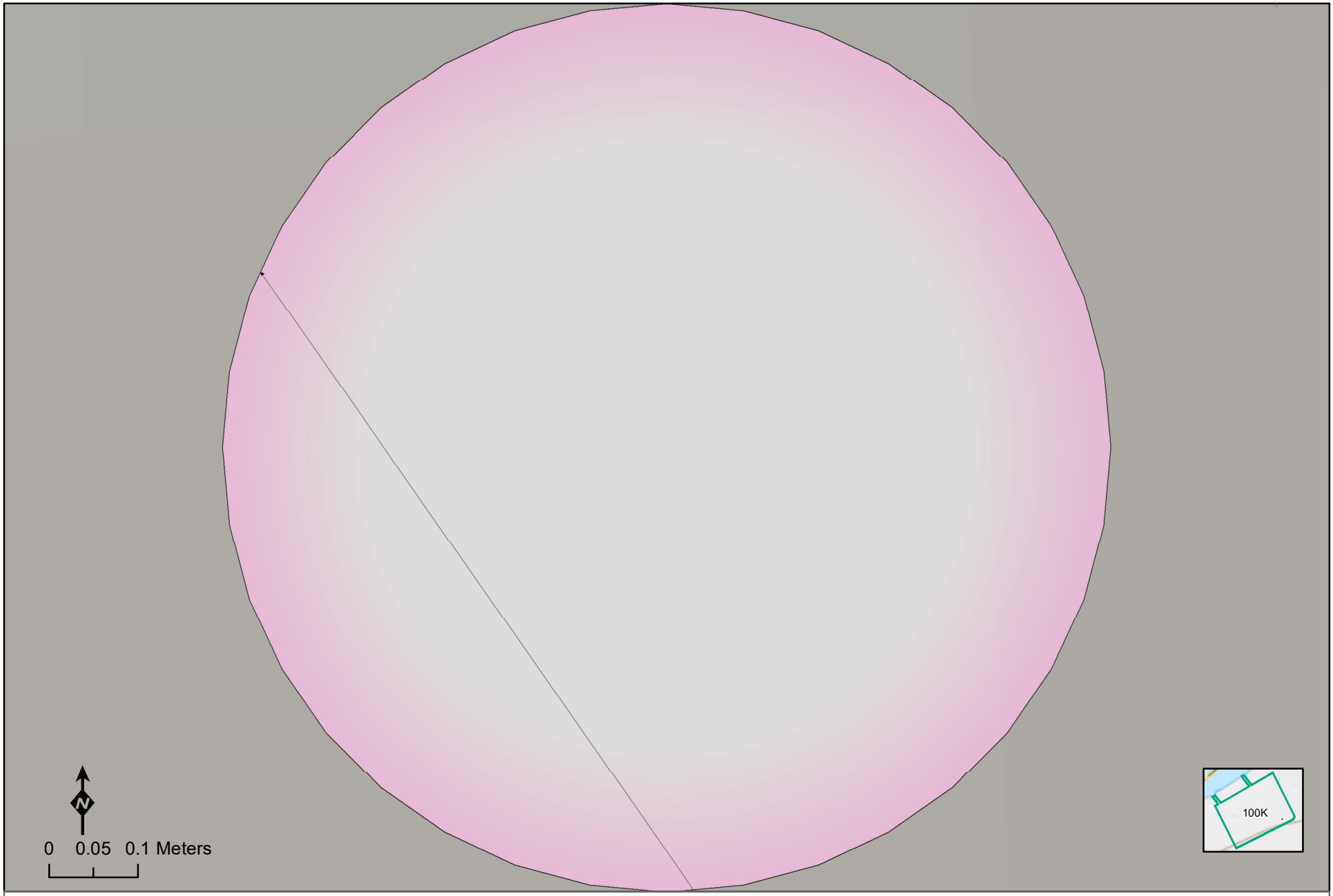


Representative Lineal Dimension (RLD) Methods for Decision Unit:

120-KE-1

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.6	**0.4**	**3**	**1.1**	**1.9**

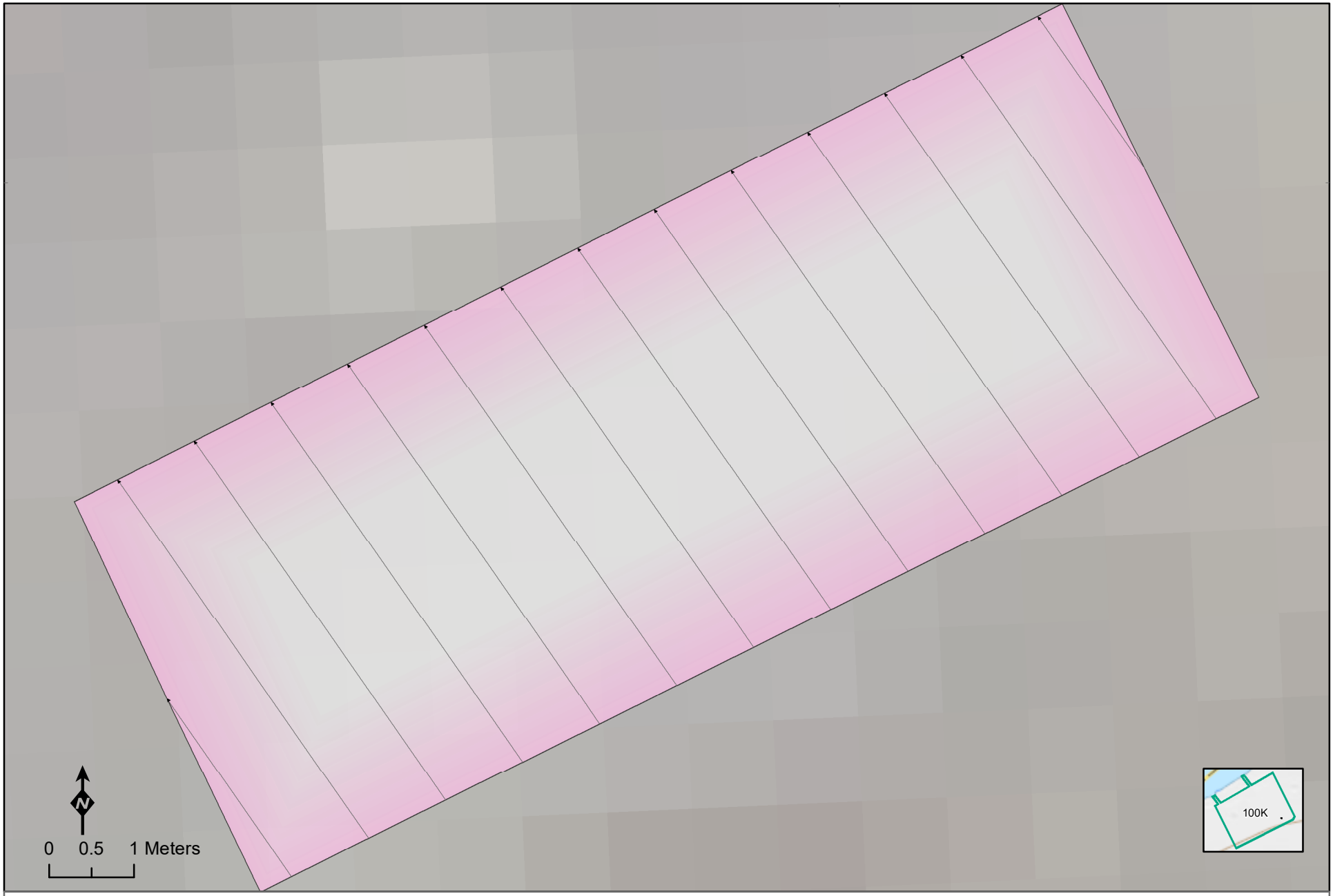


Representative Lineal Dimension (RLD) Methods for Decision Unit:

120-KE-2

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
0.8	**0.0**	**1**	**0.8**	**0.8**

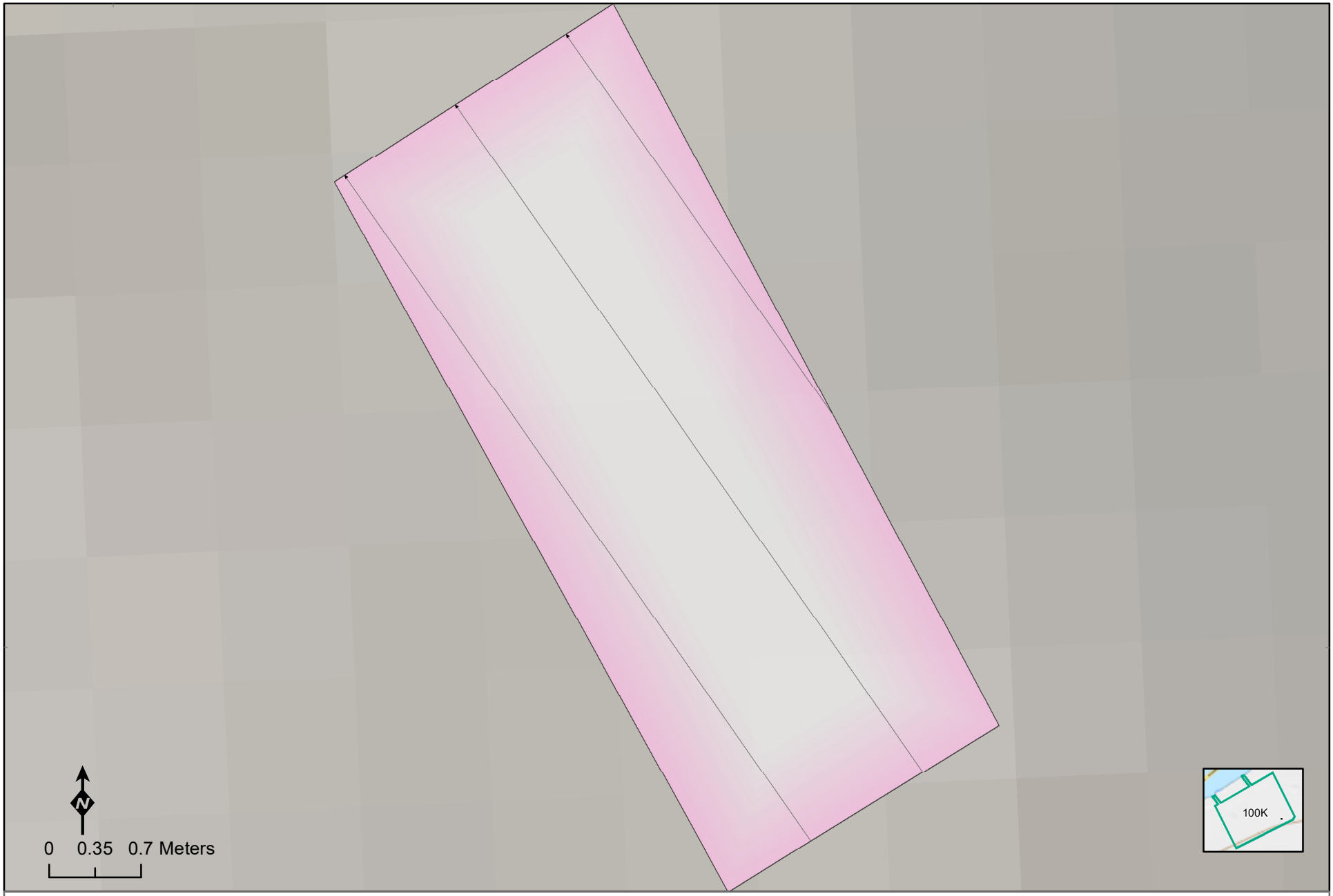


Representative Lineal Dimension (RLD) Methods for Decision Unit:

120-KE-3

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
4.8	**1.0**	**14**	**2.2**	**5.2**

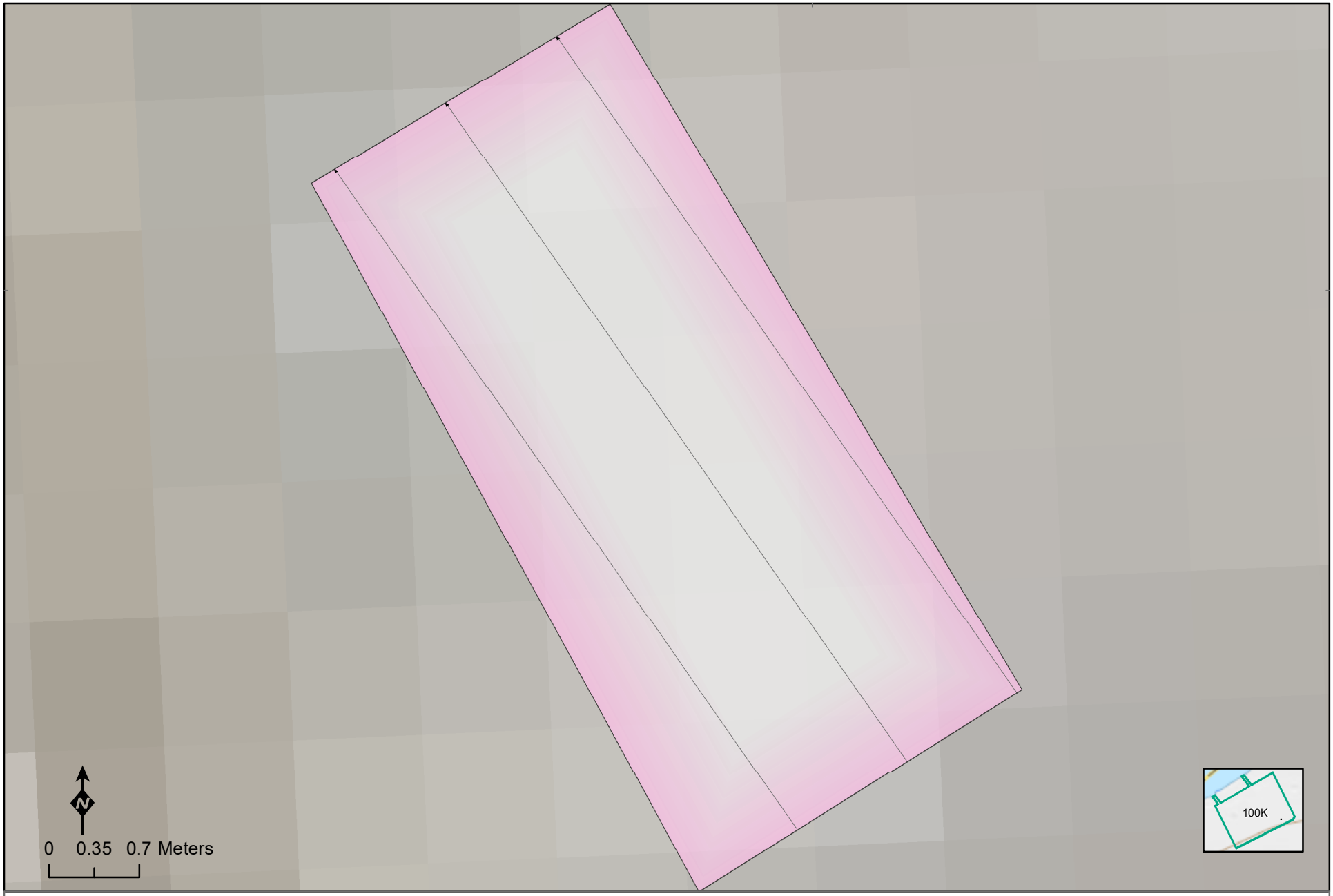


Representative Lineal Dimension (RLD) Methods for Decision Unit:

120-KE-4

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
5.3	**1.2**	**3**	**3.6**	**6.2**

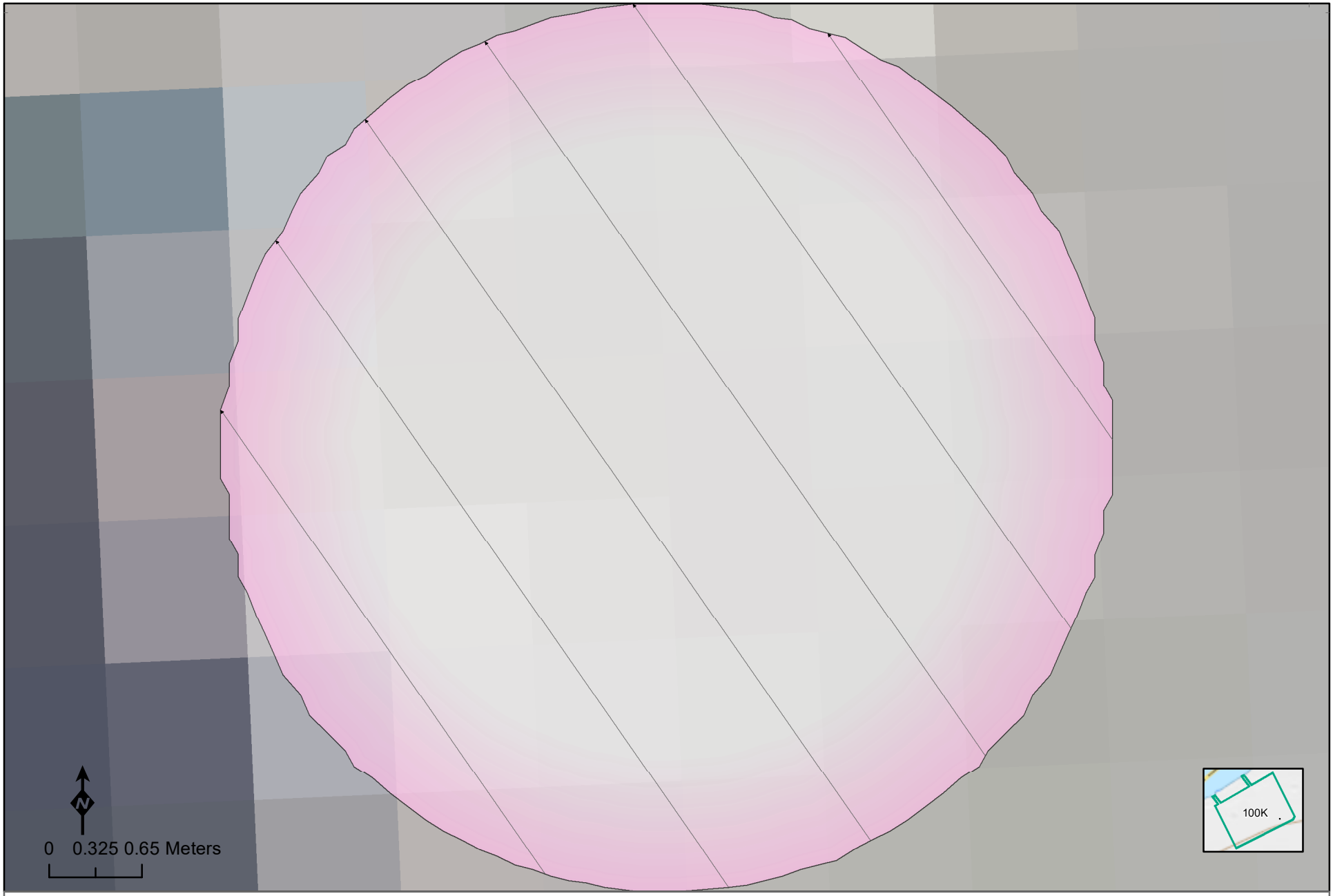


Representative Lineal Dimension (RLD) Methods for Decision Unit:

120-KE-5

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
6.2	**0.0**	**3**	**6.2**	**6.2**

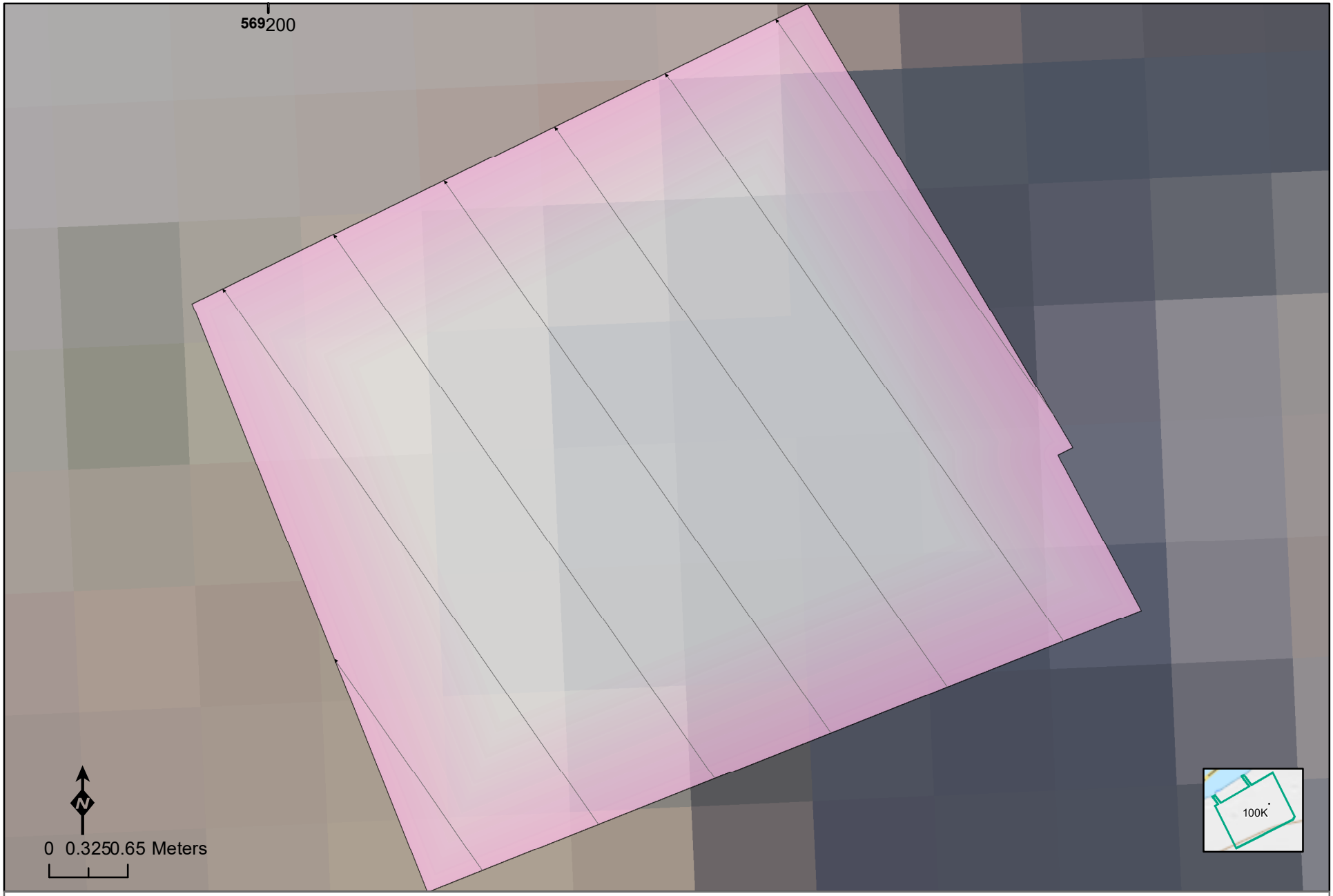


Representative Lineal Dimension (RLD) Methods for Decision Unit:

120-KE-6

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
5.1	**1.0**	**6**	**3.5**	**6.2**

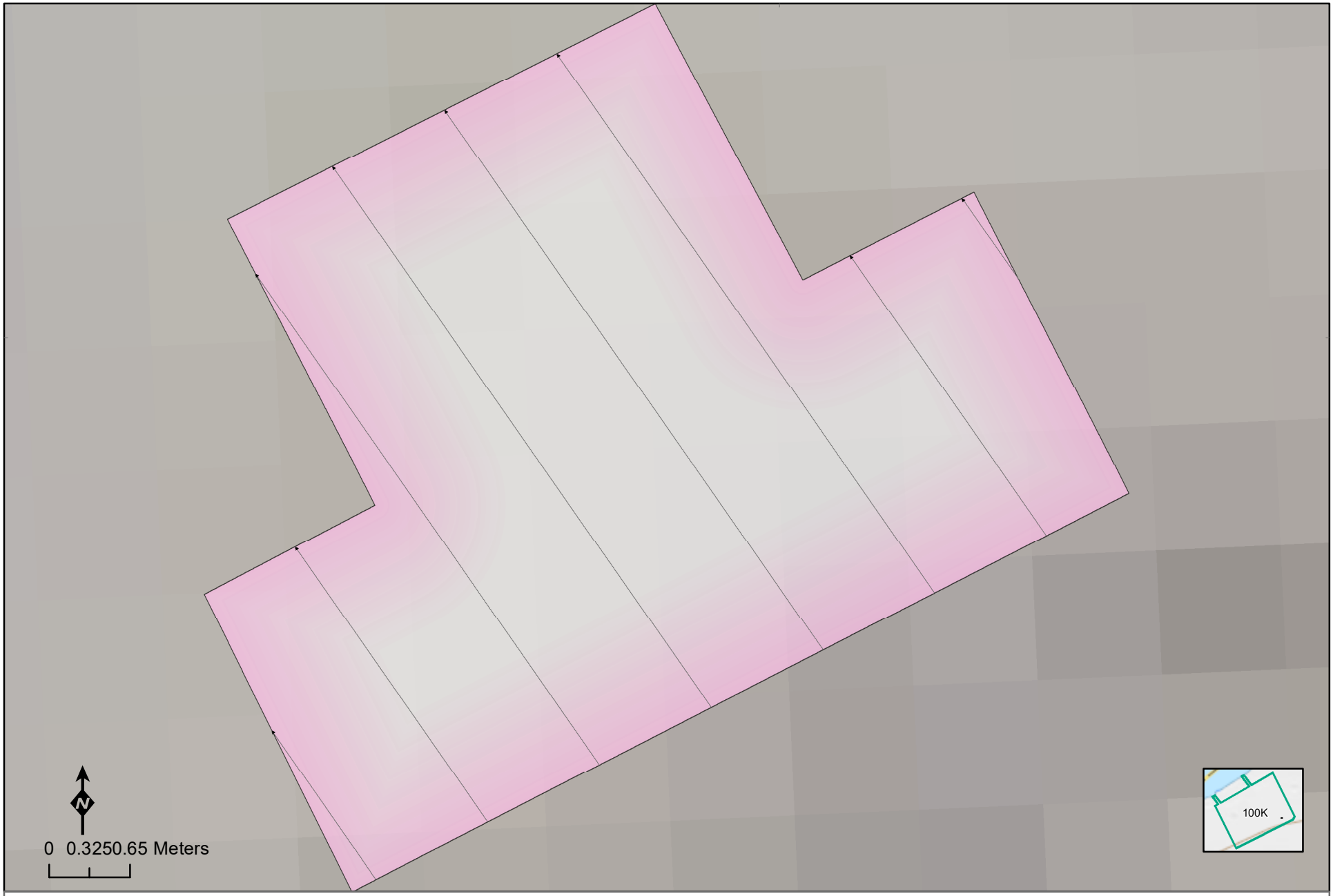


Representative Lineal Dimension (RLD) Methods for Decision Unit:

120-KE-8

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
4.8	**1.2**	**7**	**2.1**	**5.7**

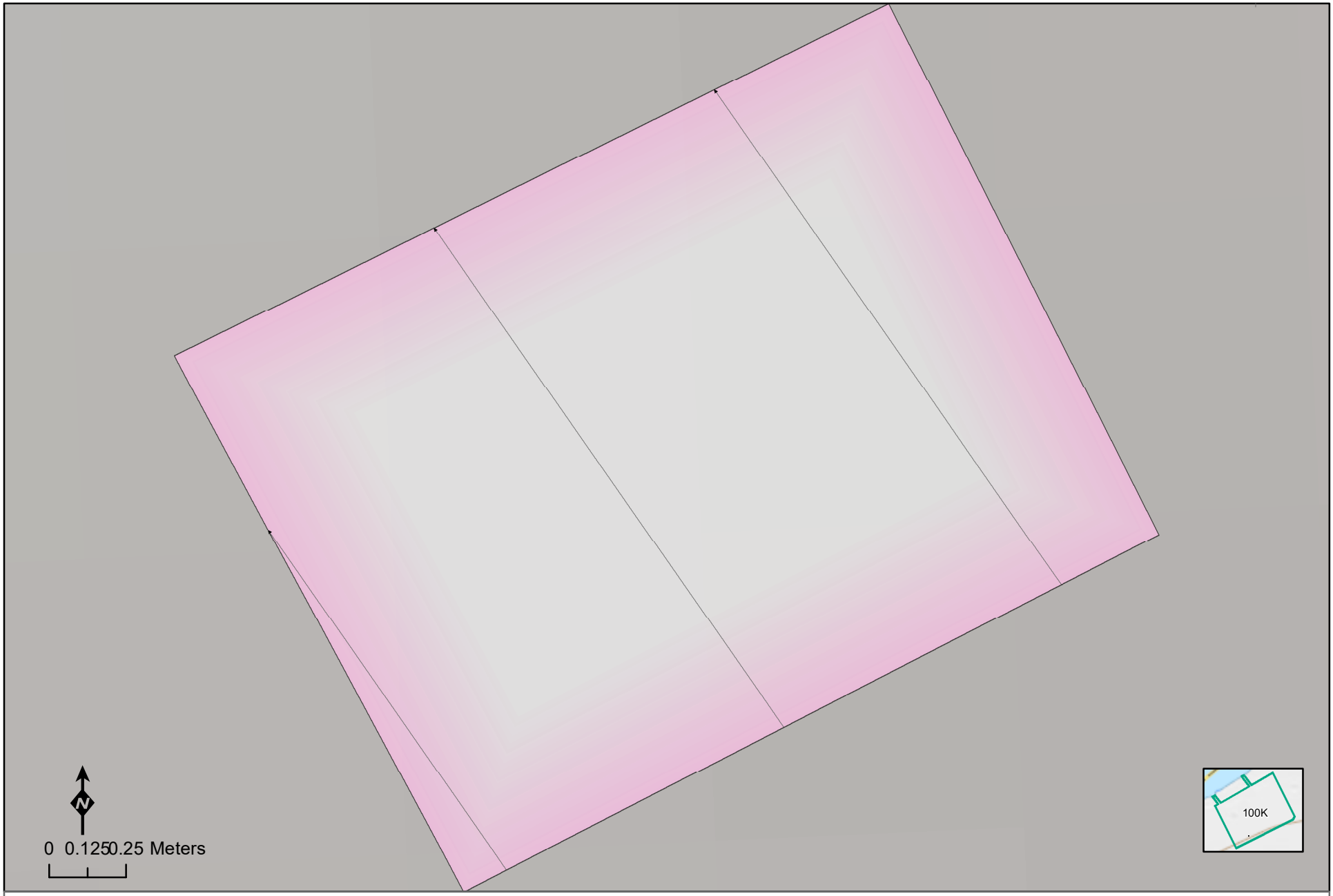


Representative Lineal Dimension (RLD) Methods for Decision Unit:

120-KE-9

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
3.6	**1.7**	**8**	**0.8**	**5.3**

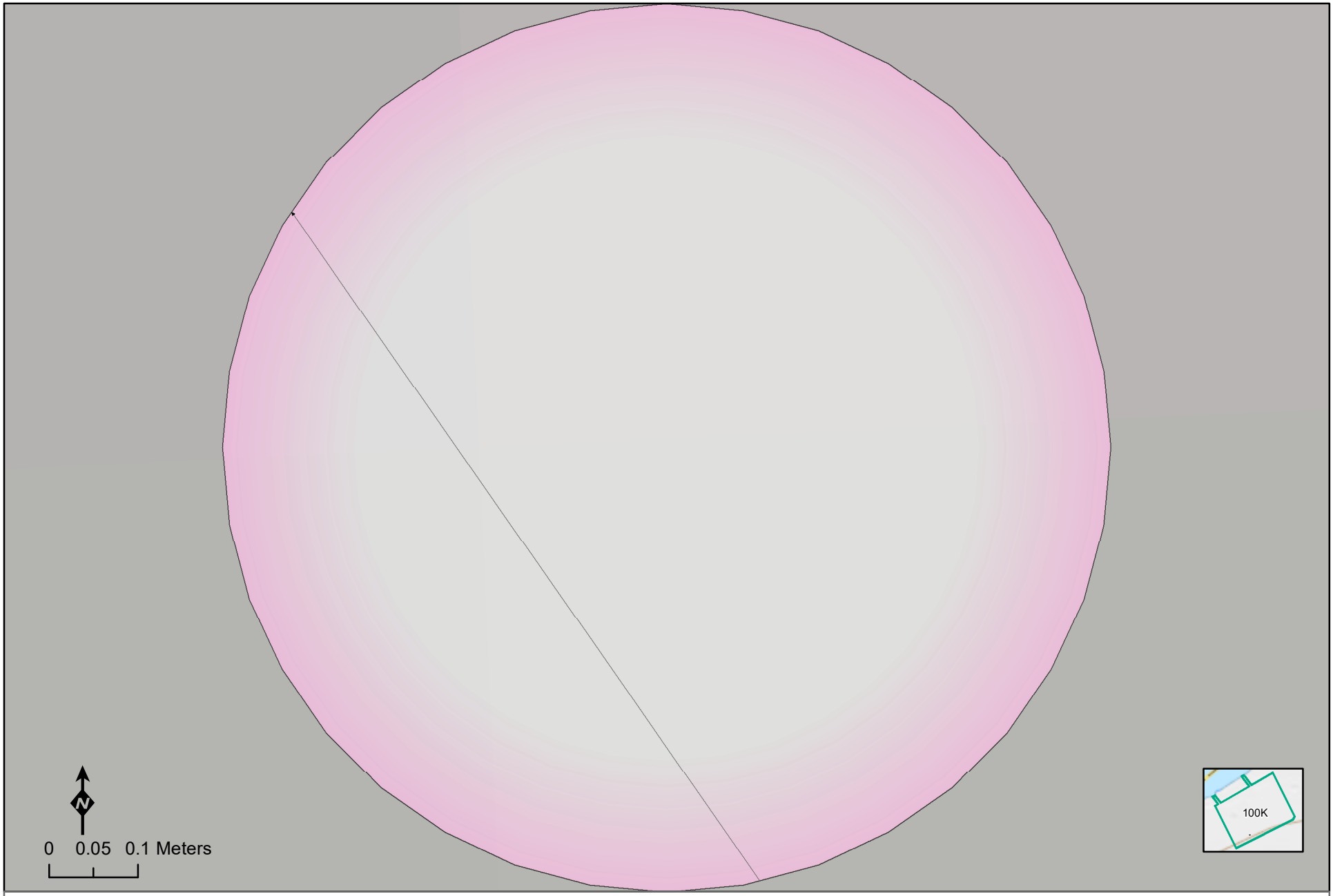


Representative Lineal Dimension (RLD) Methods for Decision Unit:

120-KW-1

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.8	**0.3**	**3**	**1.3**	**2.0**

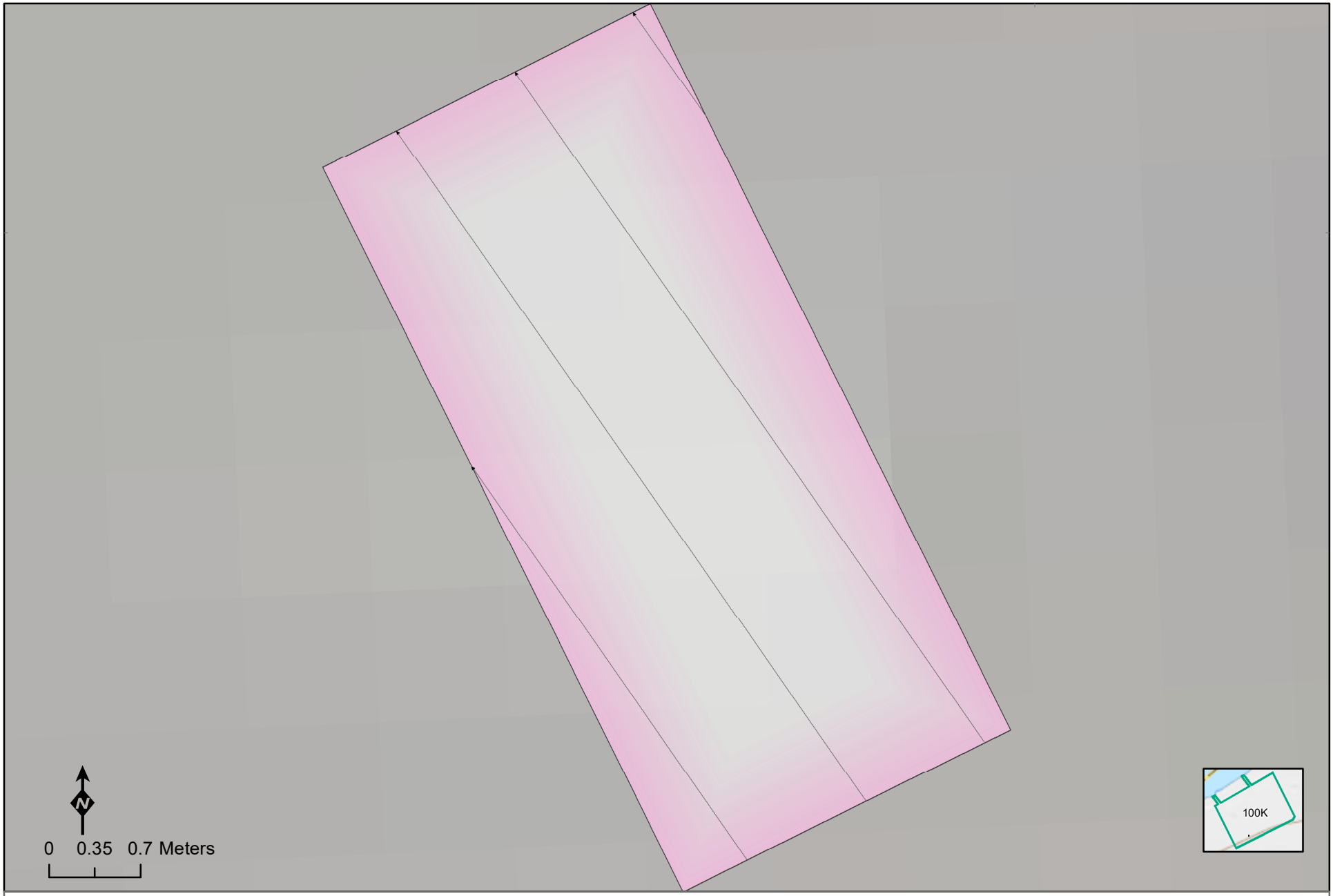


Representative Lineal Dimension (RLD) Methods for Decision Unit:

120-KW-2

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
0.9	**0.0**	**1**	**0.9**	**0.9**

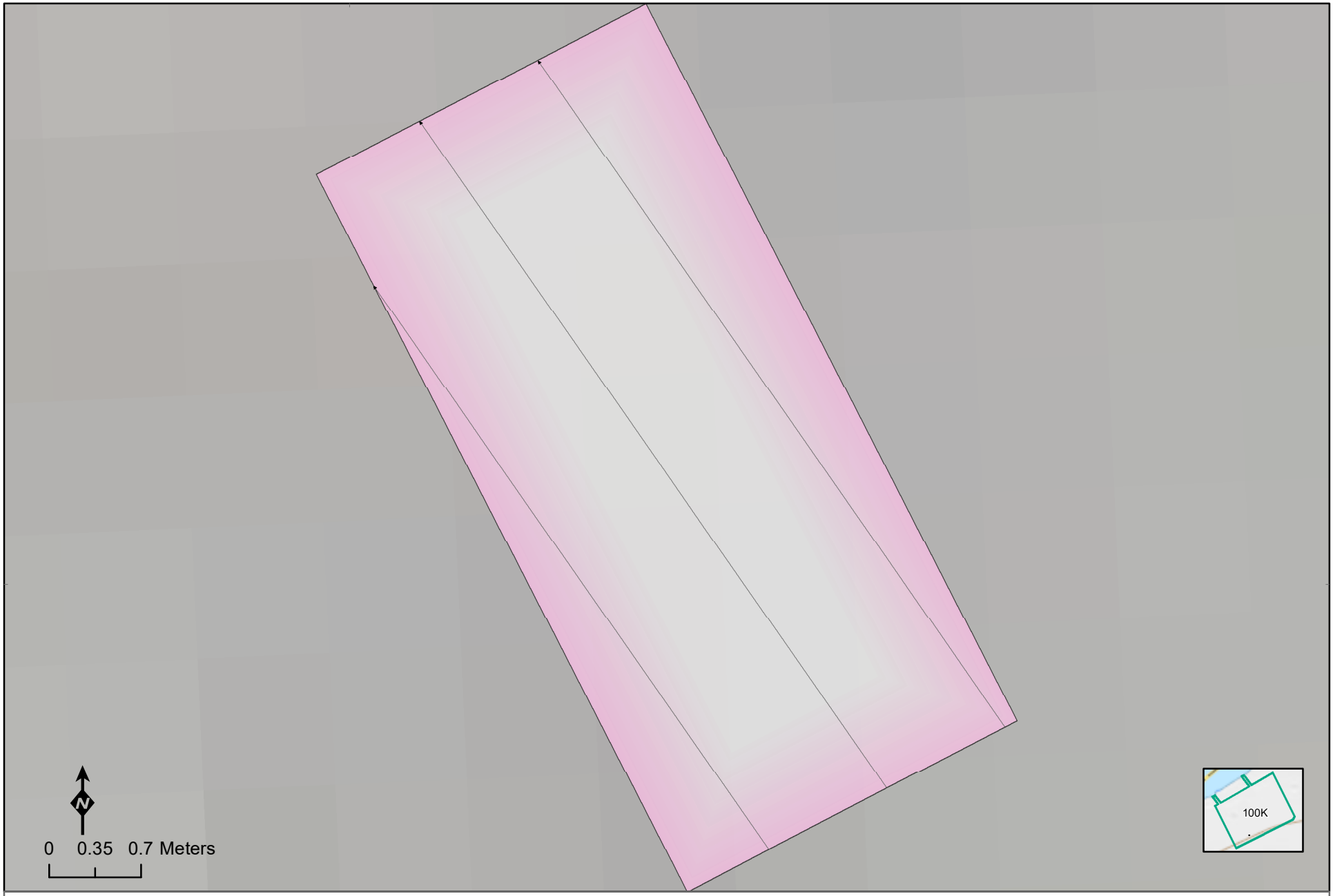


Representative Lineal Dimension (RLD) Methods for Decision Unit:

120-KW-3

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
4.3	**2.2**	**4**	**1.0**	**6.3**

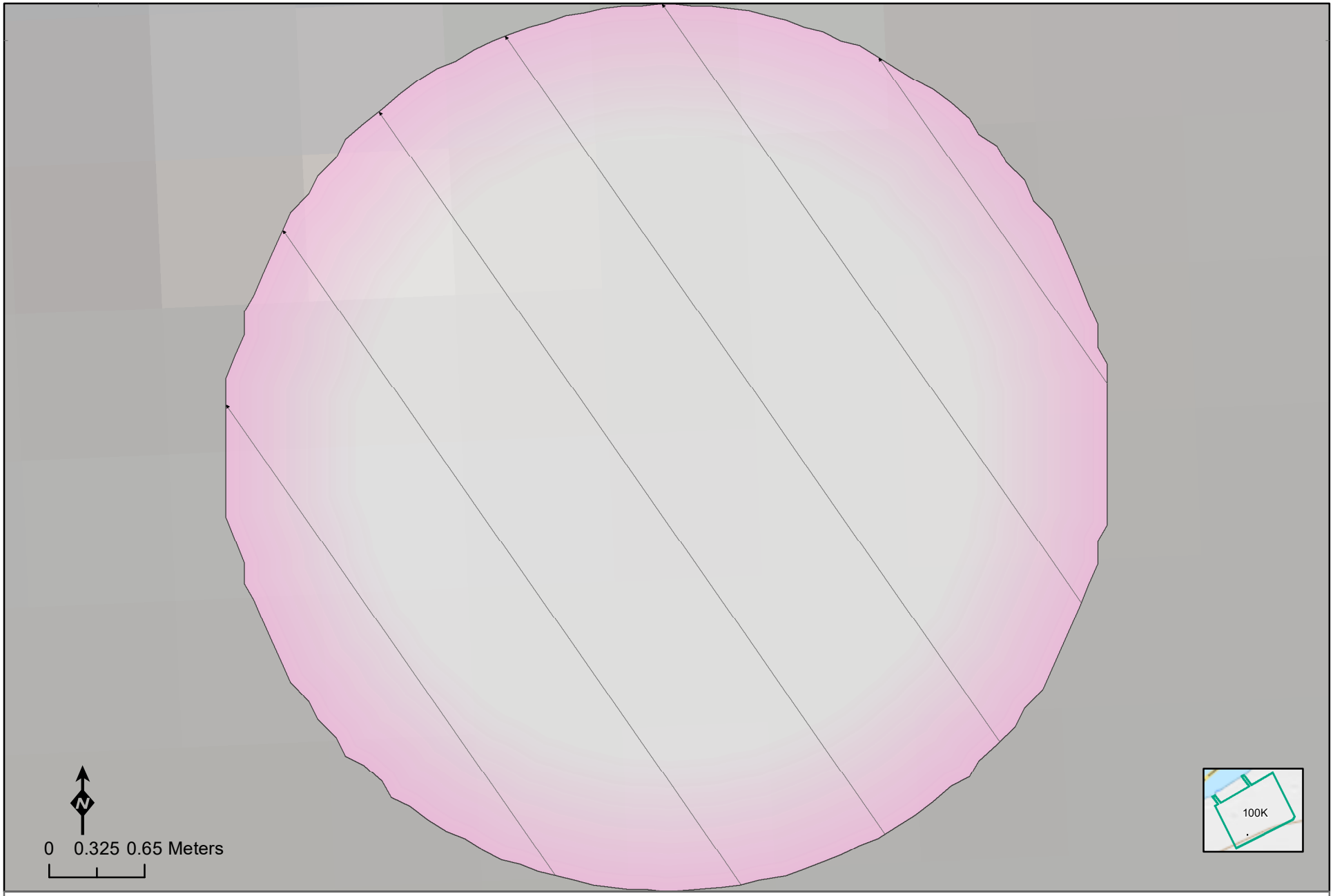


Representative Lineal Dimension (RLD) Methods for Decision Unit:

120-KW-4

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
5.9	**0.4**	**3**	**5.2**	**6.2**

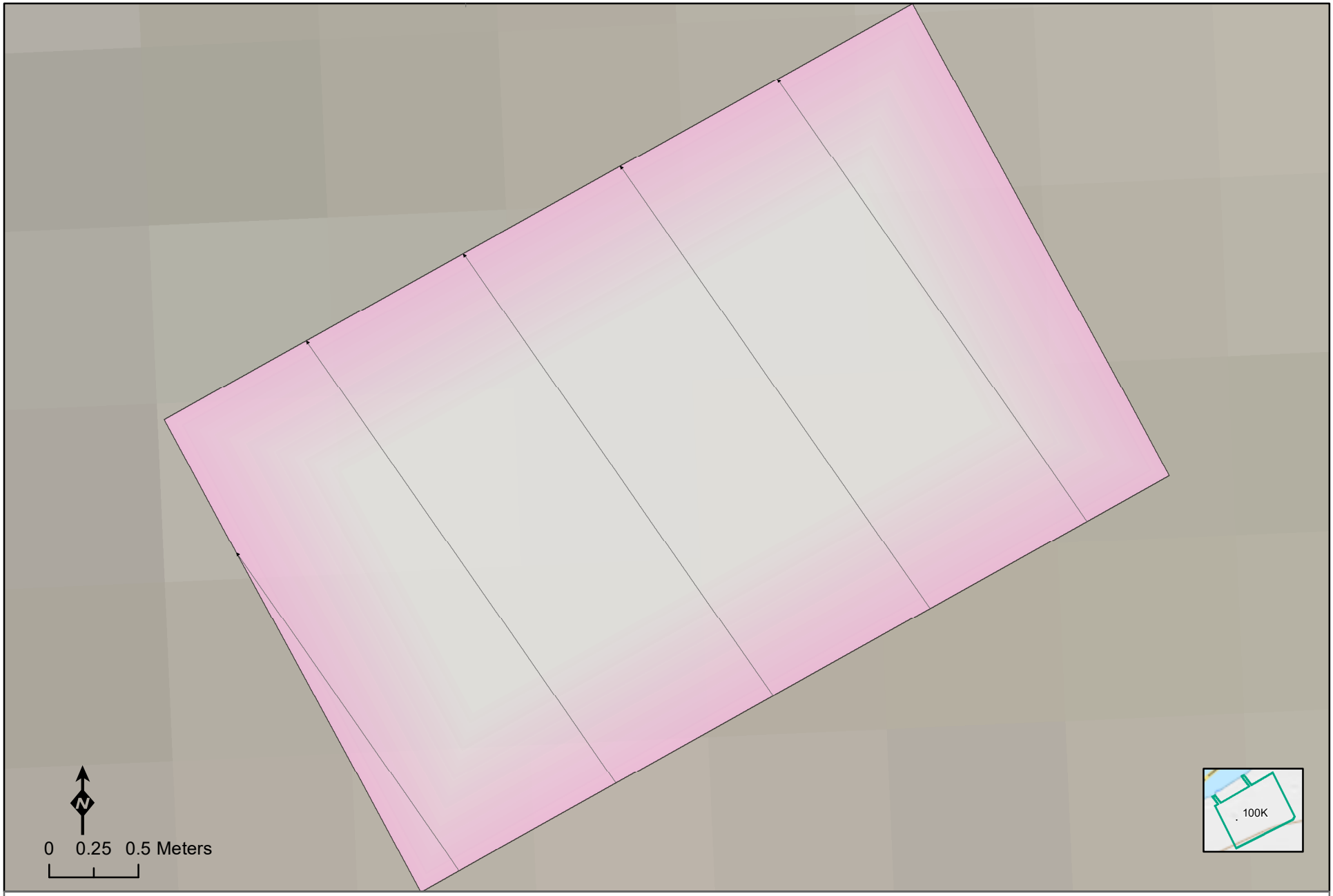


Representative Lineal Dimension (RLD) Methods for Decision Unit:

120-KW-5

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
4.8	**1.2**	**6**	**2.7**	**6.0**

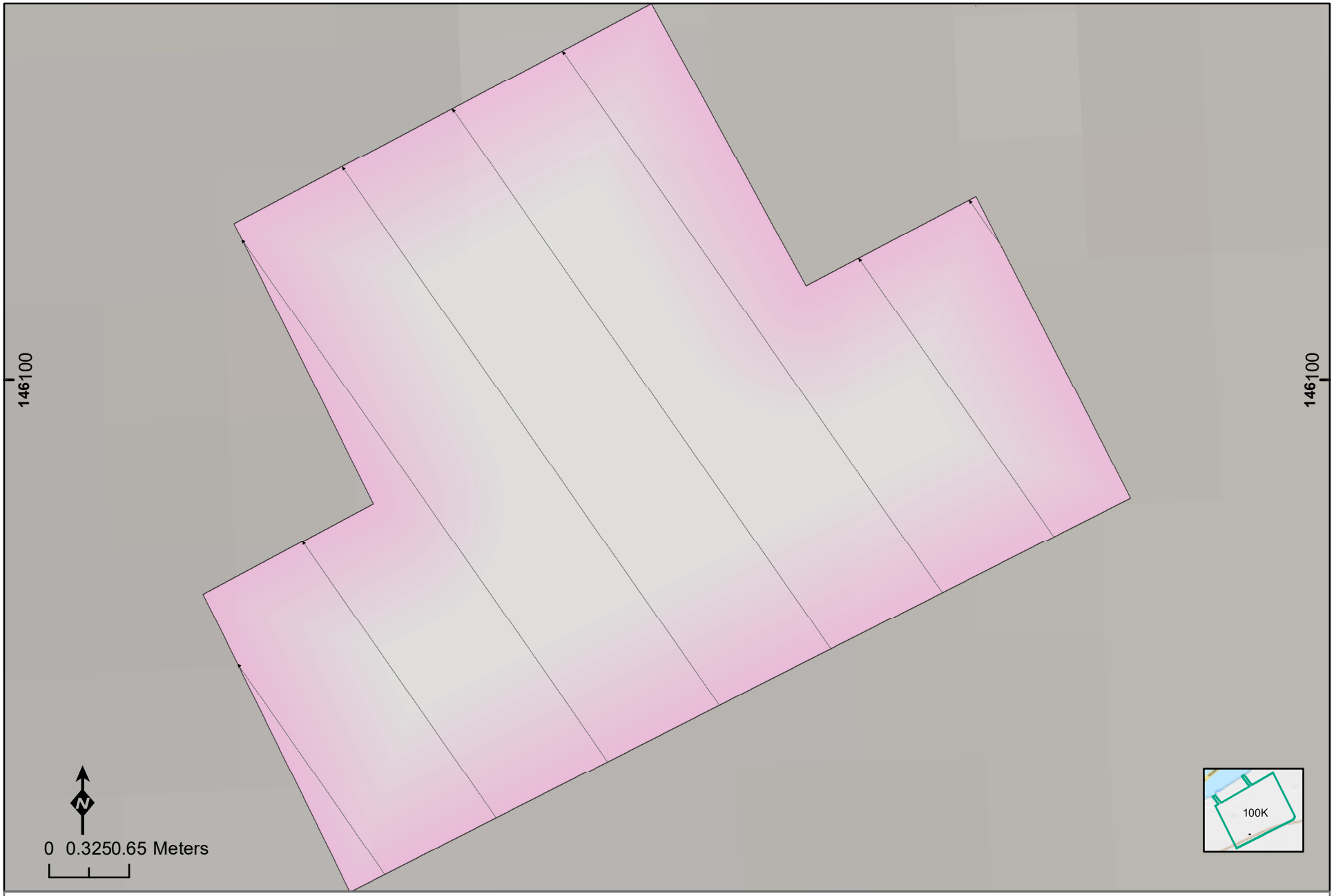


Representative Lineal Dimension (RLD) Methods for Decision Unit:

120-KW-6

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
2.9	**0.3**	**5**	**2.2**	**3.0**

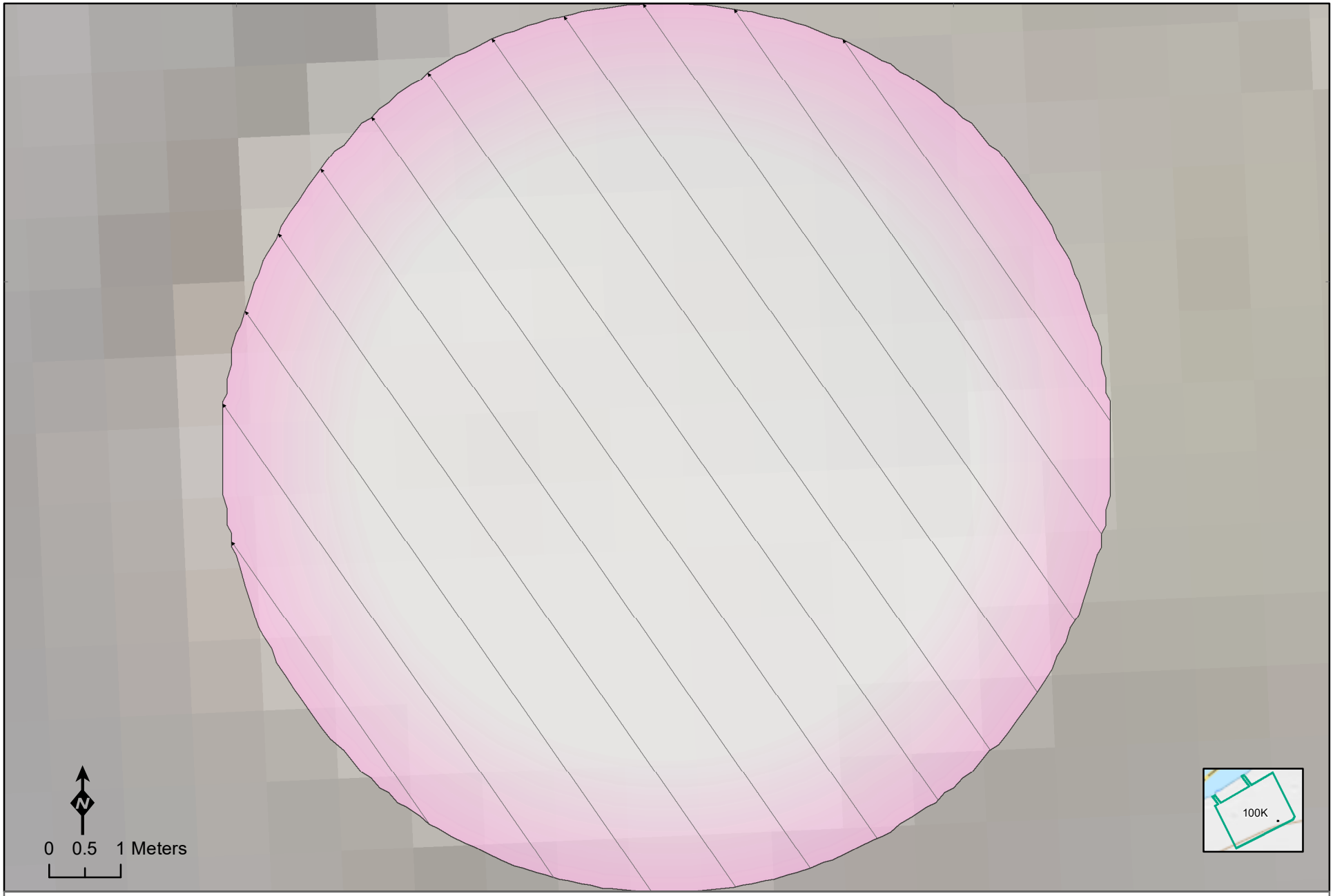


Representative Lineal Dimension (RLD) Methods for Decision Unit:

120-KW-7

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
3.6	**1.8**	**8**	**0.5**	**5.4**

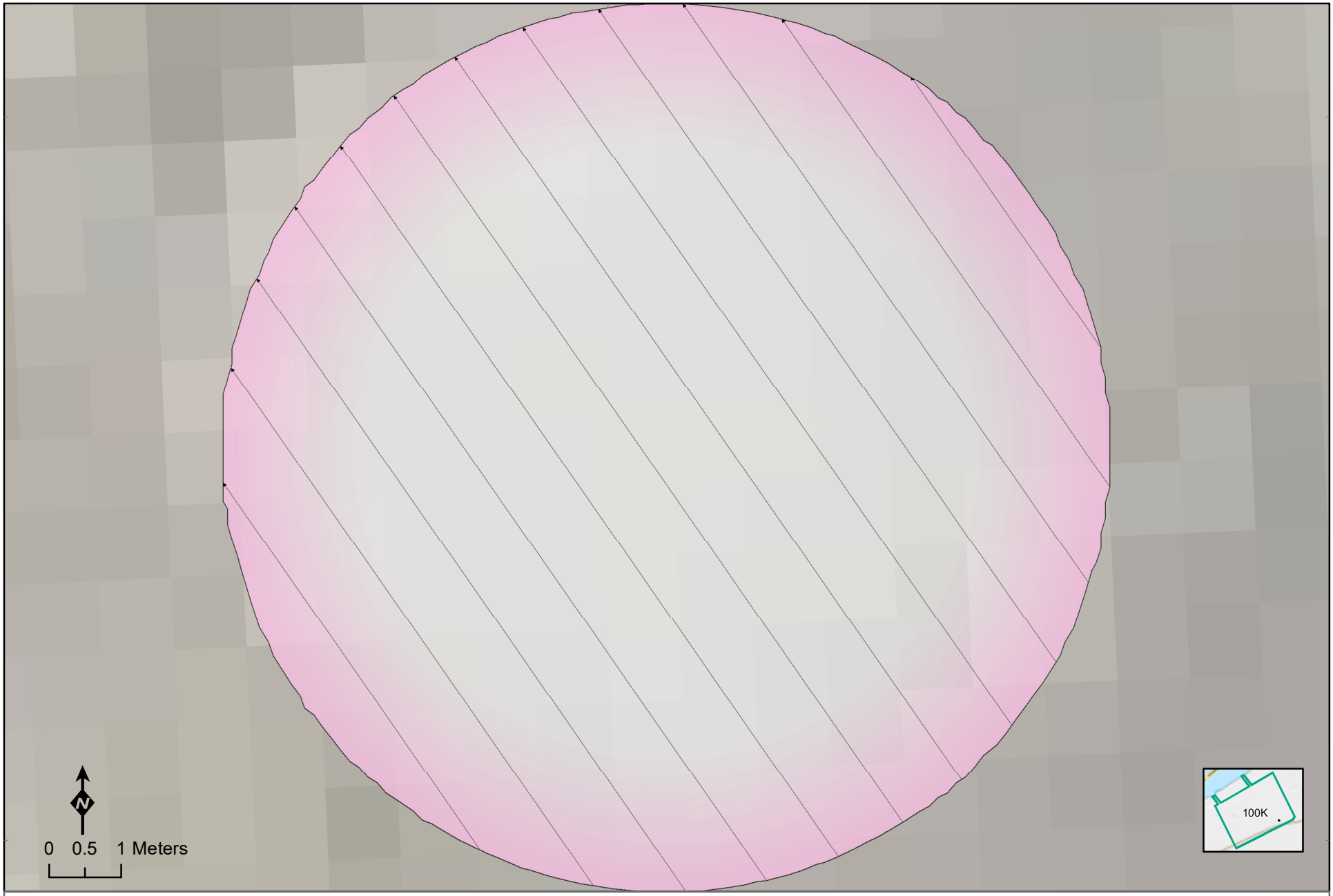


Representative Lineal Dimension (RLD) Methods for Decision Unit:

126-KE-2

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
10.0	**2.4**	**12**	**4.8**	**12.4**

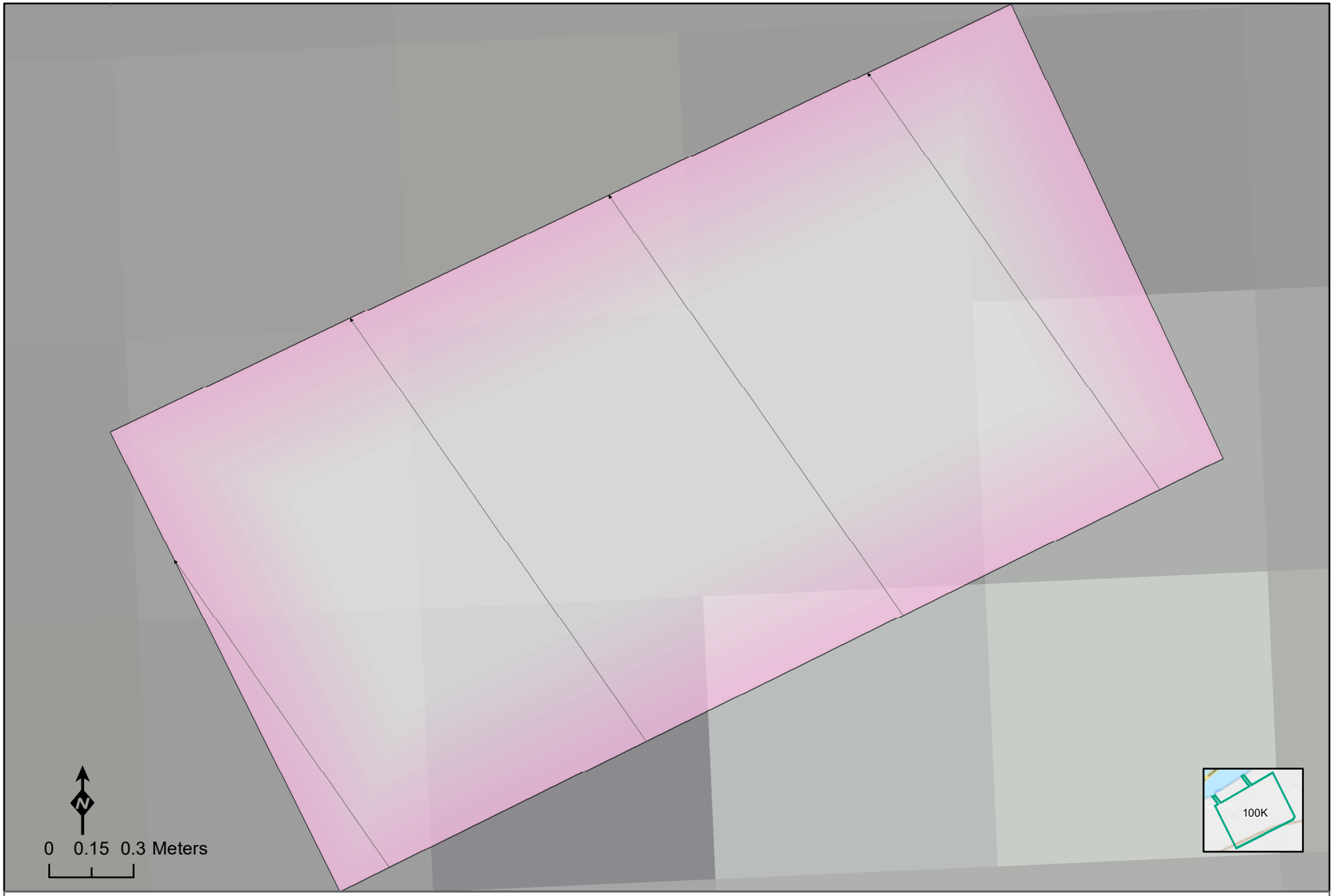


Representative Lineal Dimension (RLD) Methods for Decision Unit:

126-KE-3

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
9.8	**2.4**	**12**	**4.6**	**12.3**

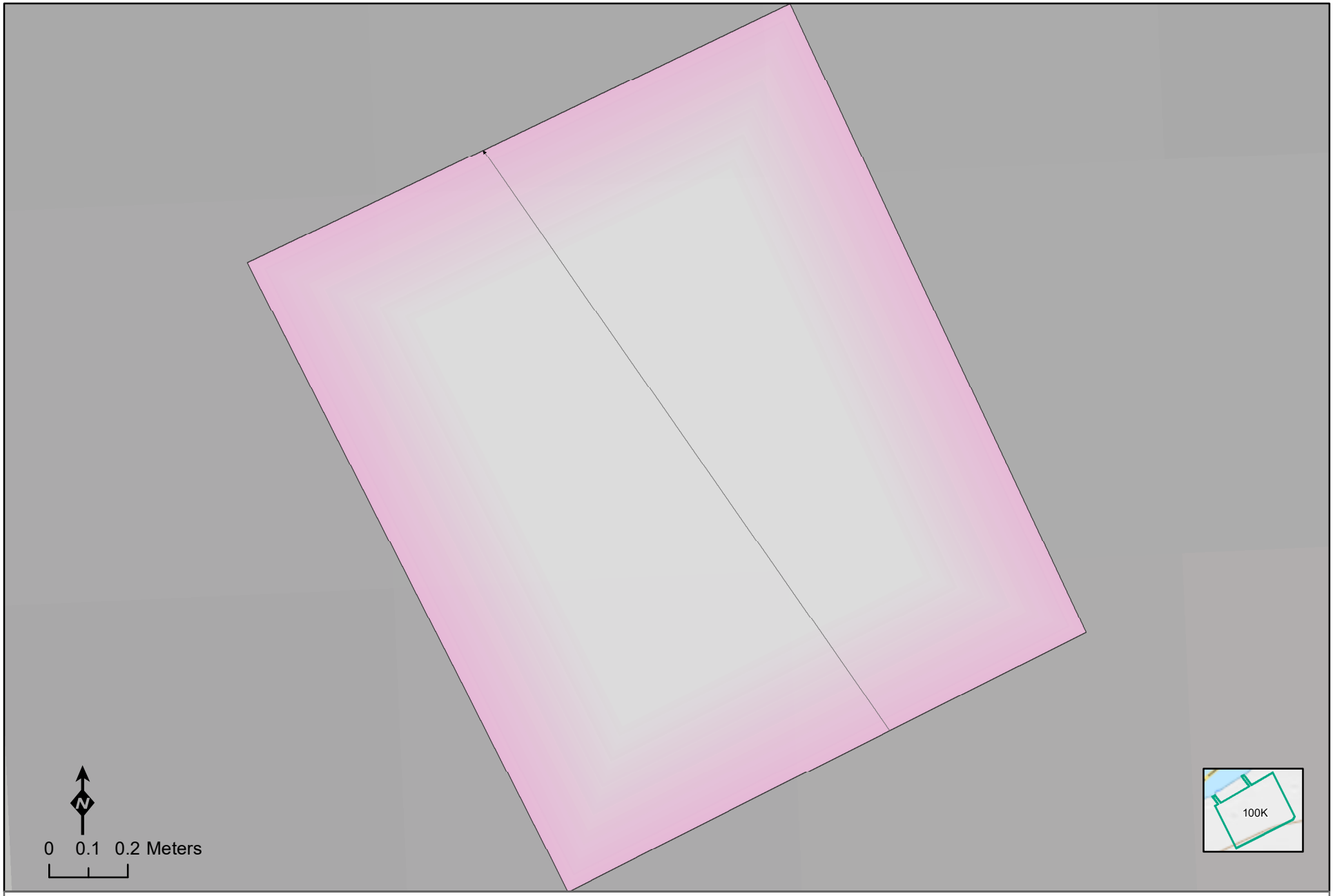


Representative Lineal Dimension (RLD) Methods for Decision Unit:

130-K-1

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.7	**0.2**	**4**	**1.3**	**1.8**

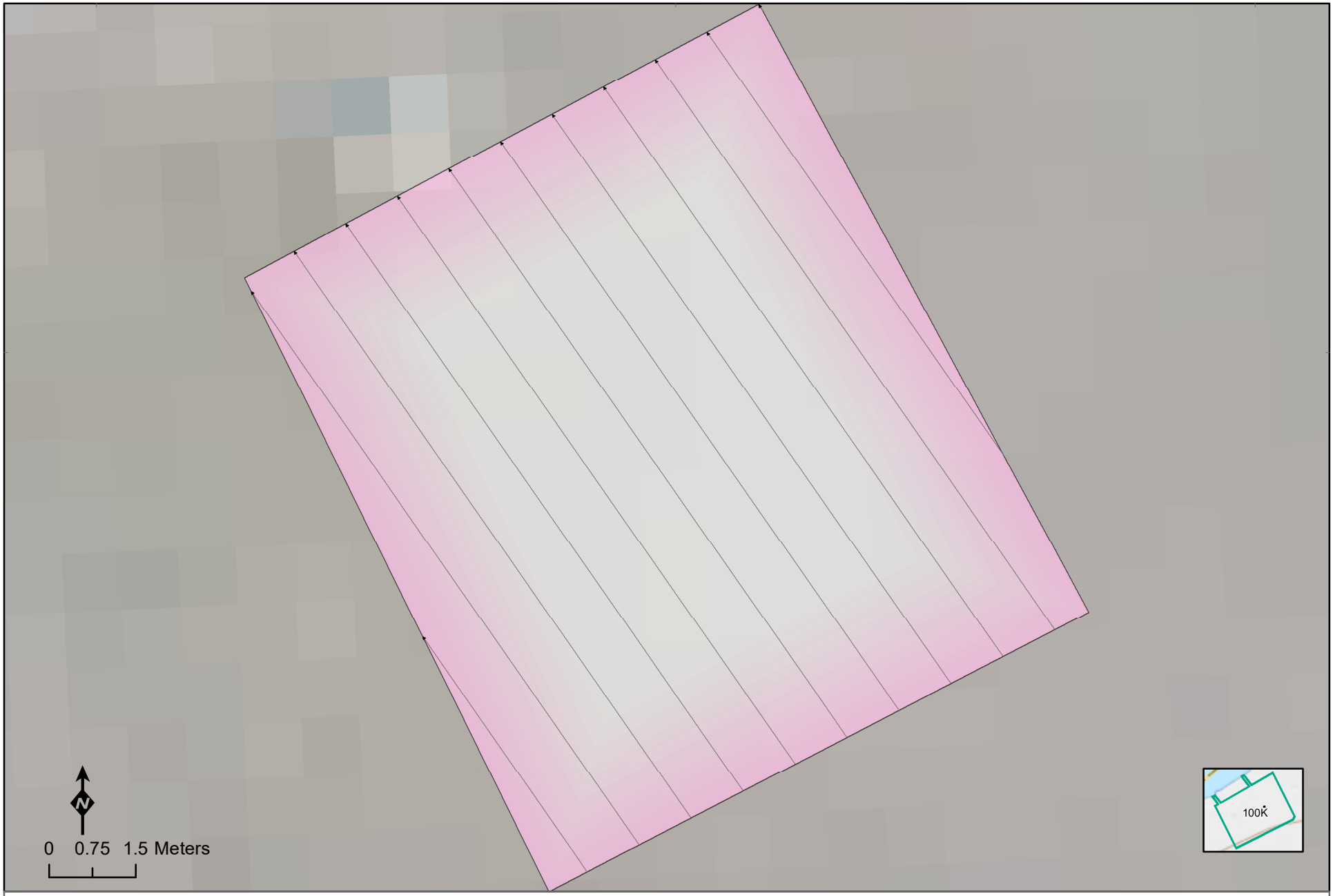


Representative Lineal Dimension (RLD) Methods for Decision Unit:

130-K-2

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.8	**0.0**	**1**	**1.8**	**1.8**

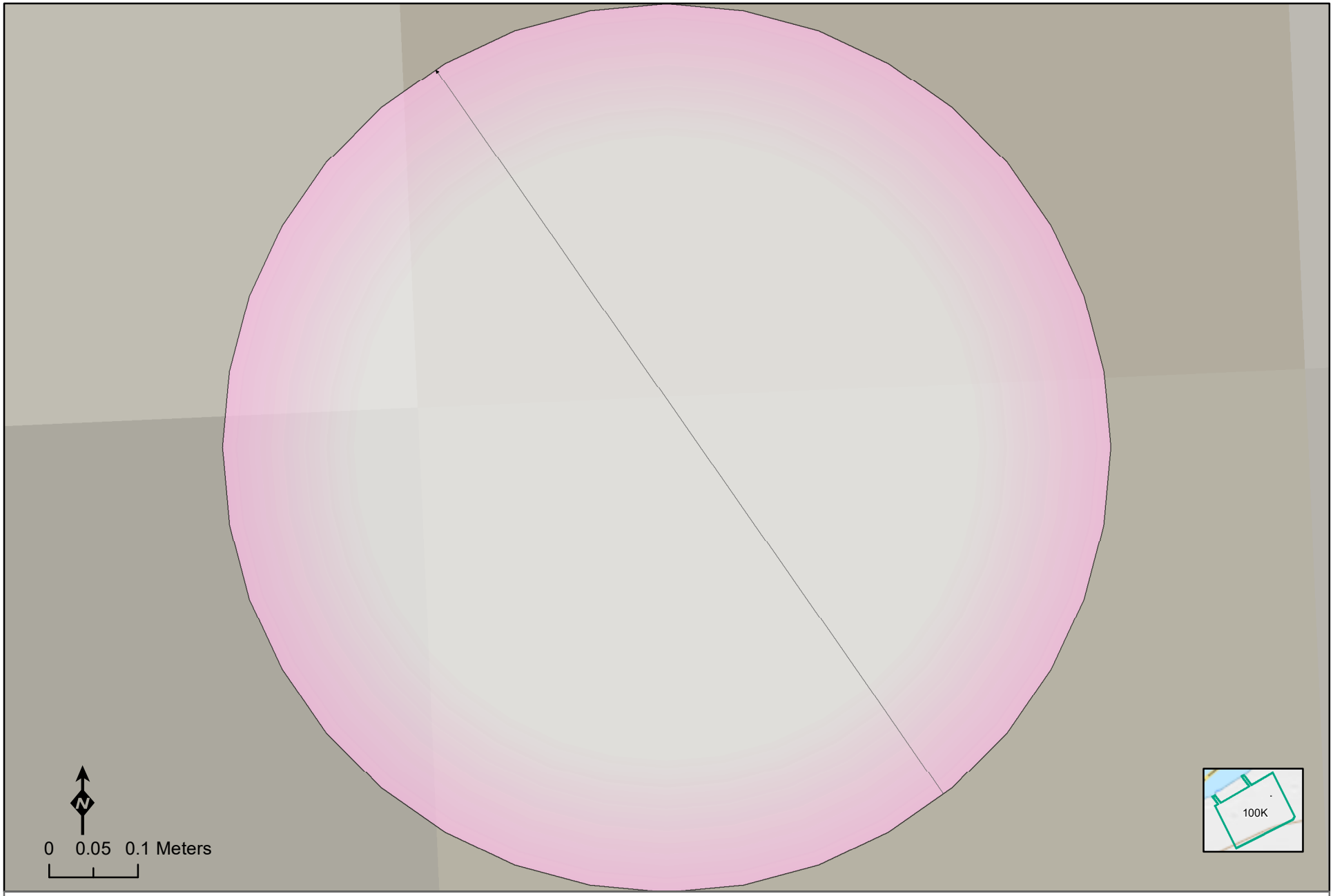


Representative Lineal Dimension (RLD) Methods for Decision Unit:

130-K-3

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
10.1	**3.6**	**12**	**0.1**	**12.0**



Representative Lineal Dimension (RLD) Methods for Decision Unit:

130-KE-1

Intersected Flow Vectors Statistics

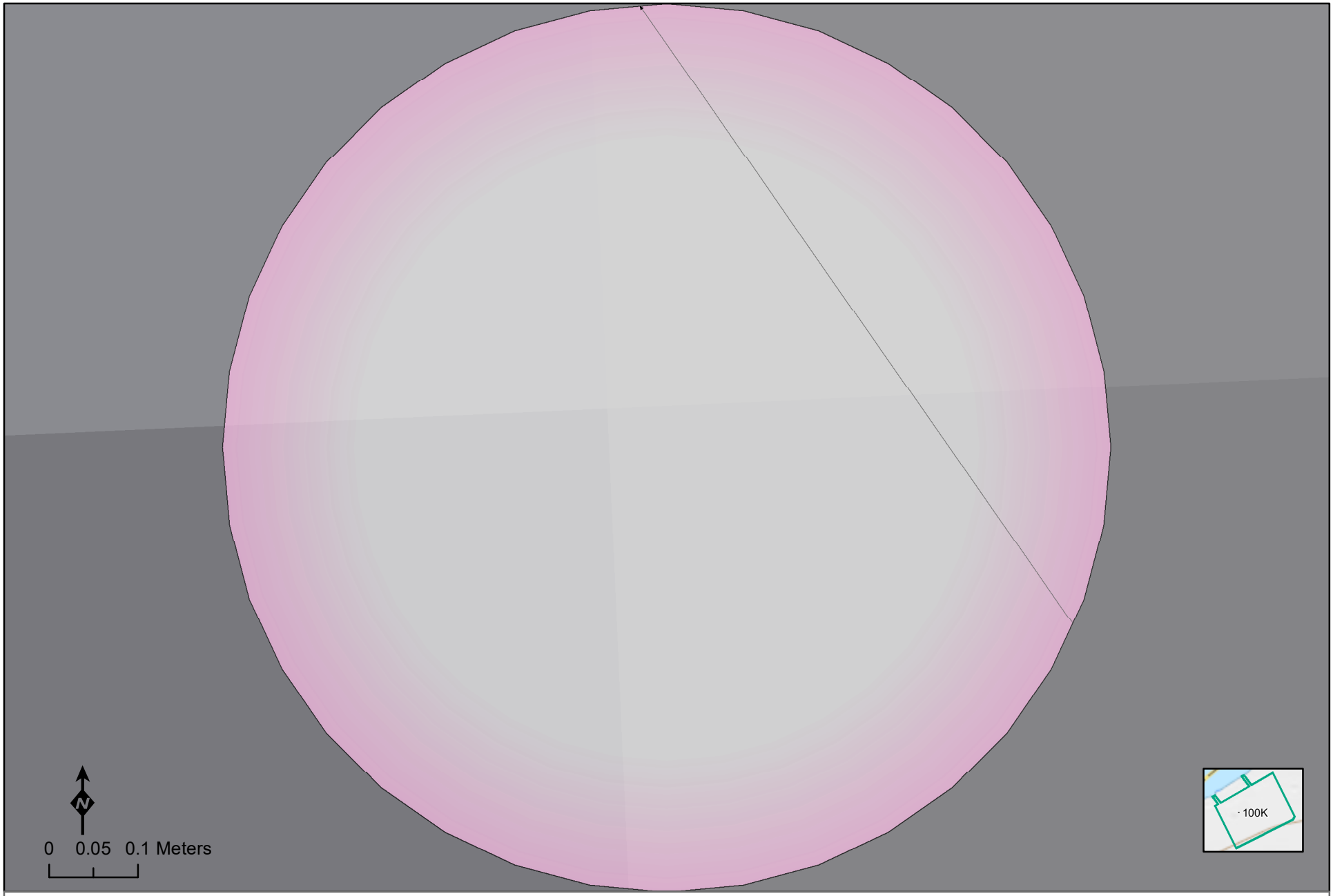
Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.0	**0.0**	**1**	**1.0**	**1.0**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

130-KE-2

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
34.2	**12.7**	**34**	**0.6**	**43.1**



Representative Lineal Dimension (RLD) Methods for Decision Unit:

130-KW-1

Intersected Flow Vectors Statistics

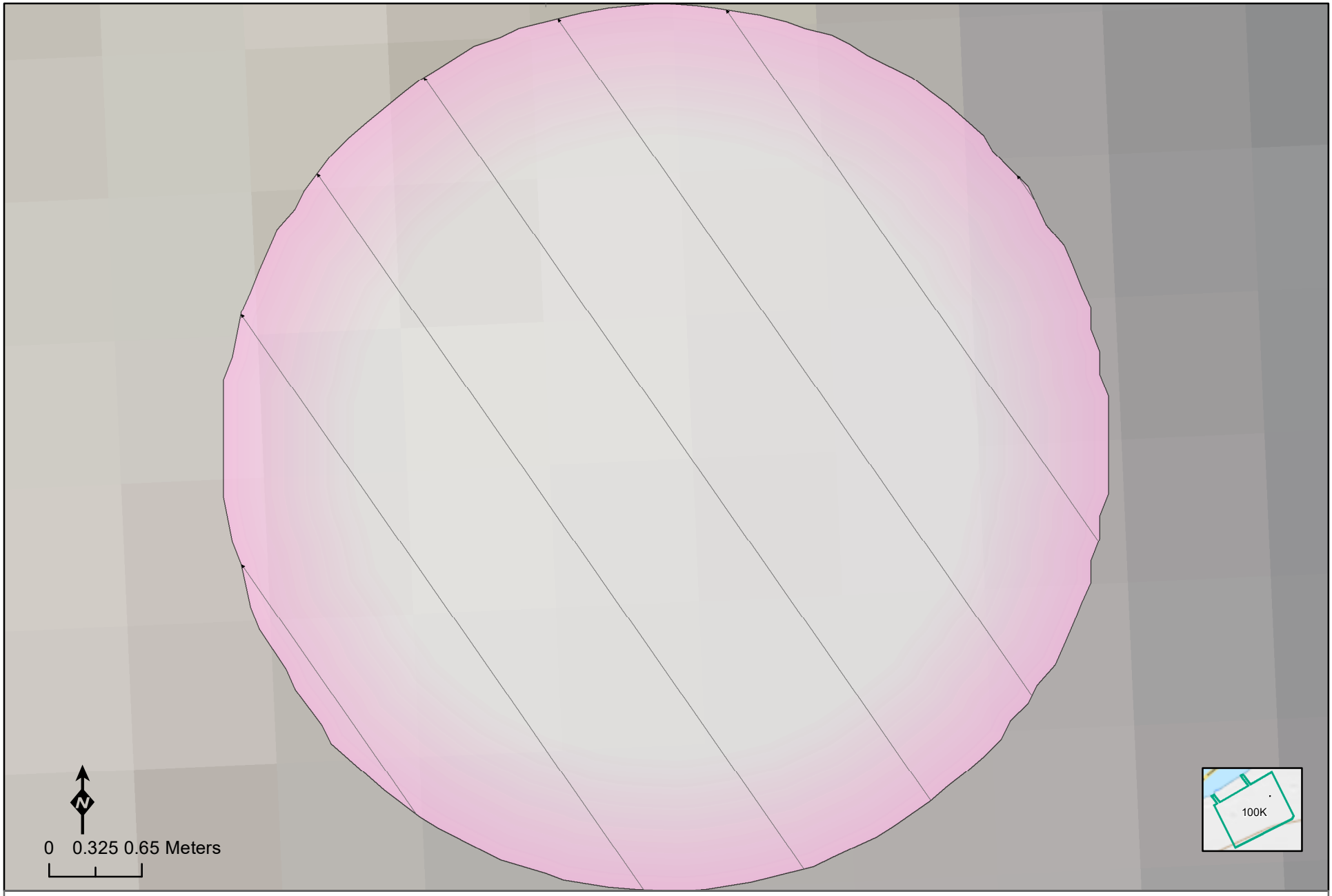
Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
0.8	**0.0**	**1**	**0.8**	**0.8**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

130-KW-2

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
33.6	**12.5**	**34**	**1.1**	**42.8**

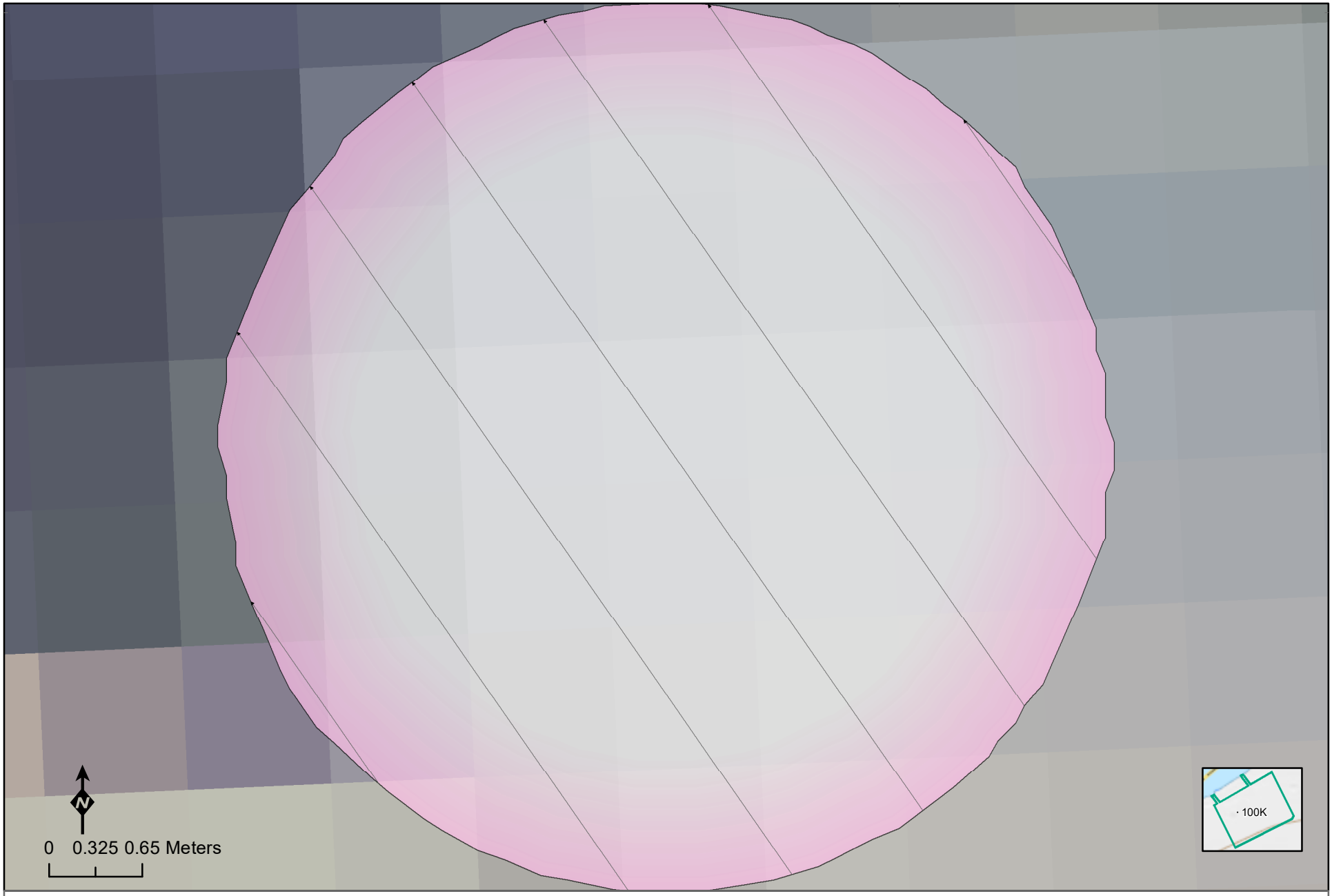


Representative Lineal Dimension (RLD) Methods for Decision Unit:

132-KE-1

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
4.2	**2.1**	**7**	**0.2**	**6.2**



Representative Lineal Dimension (RLD) Methods for Decision Unit:

132-KW-1

Intersected Flow Vectors Statistics

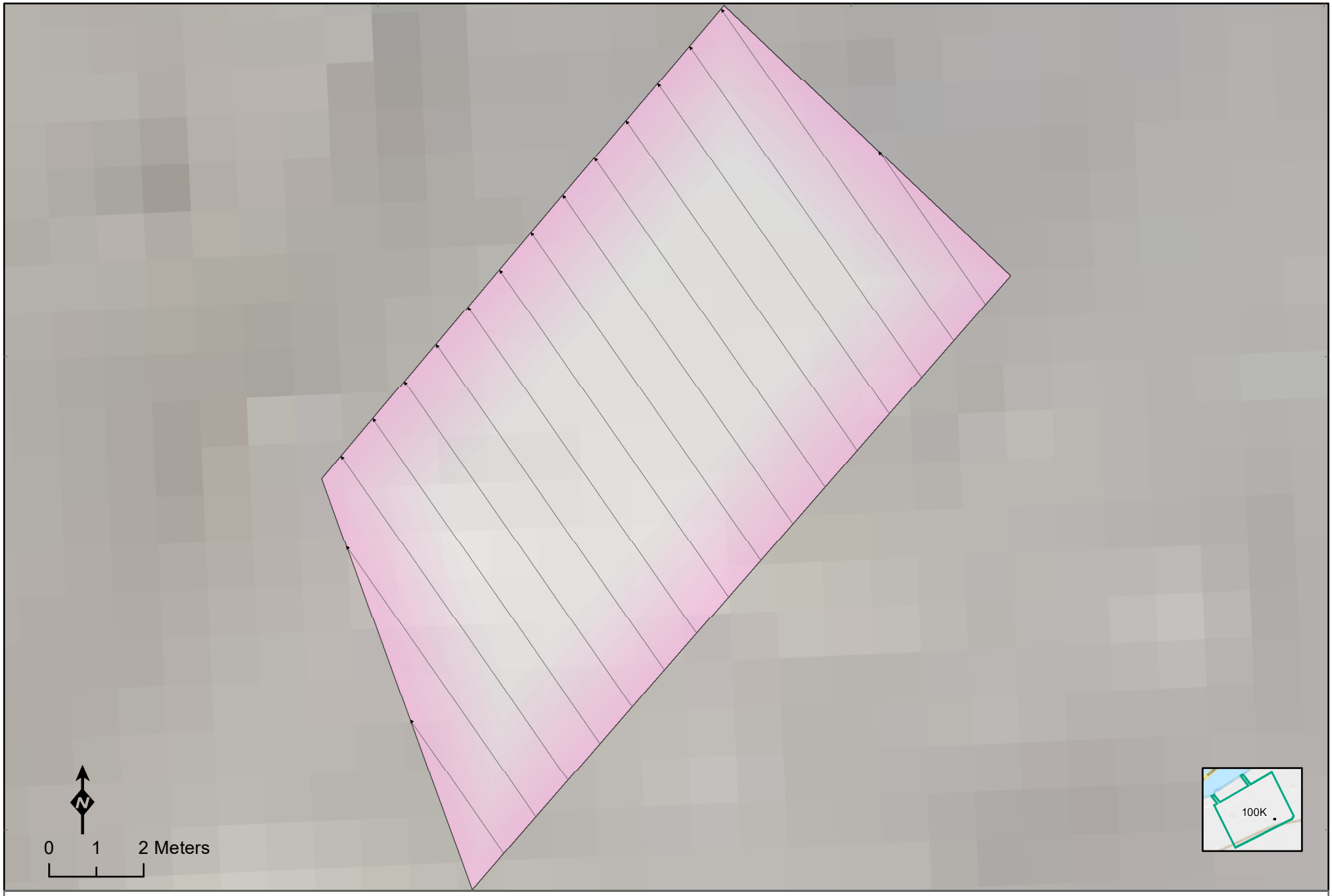
Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
4.3	**1.9**	**7**	**1.4**	**6.2**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

1607-K1

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
2.4	**2.7**	**96**	**0.5**	**8.5**

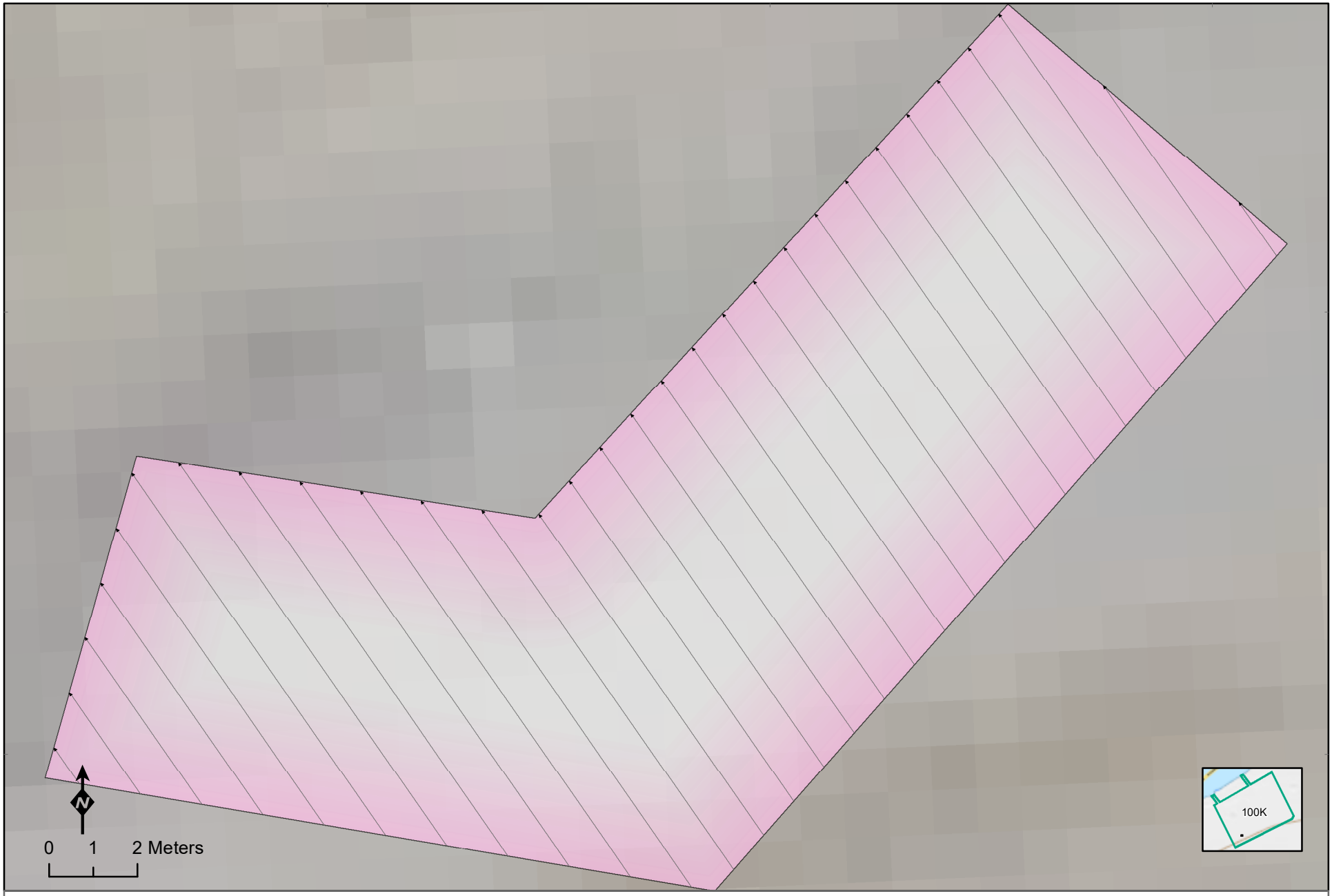


Representative Lineal Dimension (RLD) Methods for Decision Unit:

1607-K2

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
7.8	**1.6**	**16**	**3.4**	**8.6**



Representative Lineal Dimension (RLD) Methods for Decision Unit:

1607-K3

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
8.1	**2.5**	**30**	**1.0**	**10.7**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

1607-K4

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
5.2	**8.5**	**129**	**1.0**	**34.1**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

1607-K5

Intersected Flow Vectors Statistics

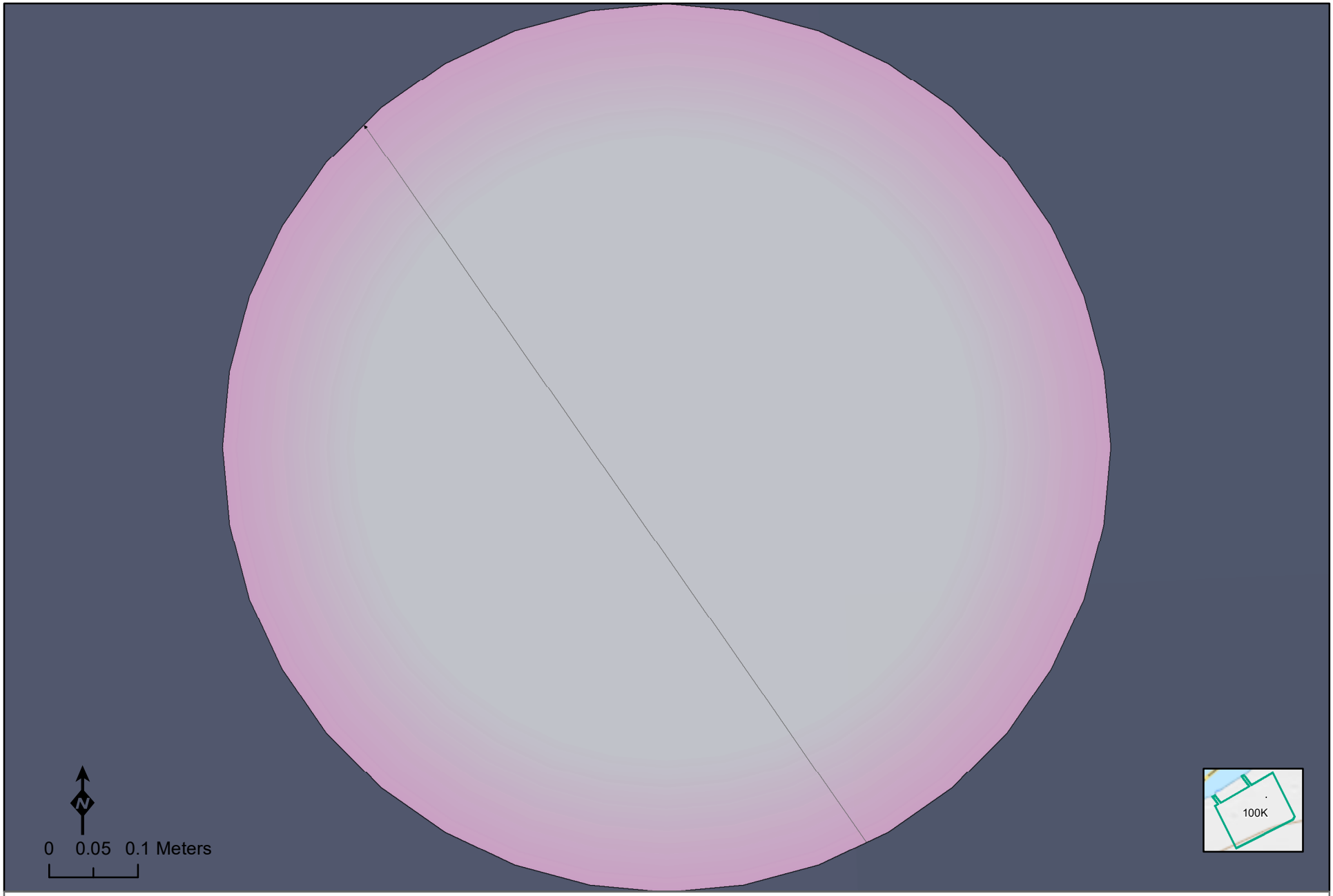
Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
25.2	**12.8**	**17**	**0.9**	**36.8**

Representative Lineal Dimension (RLD) Methods for Decision Unit:

1607-K6

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
4.0	**8.6**	**173**	**0.1**	**36.9**



Representative Lineal Dimension (RLD) Methods for Decision Unit:

UPR-100-K-1

Intersected Flow Vectors Statistics

Ave. Length (m)	Std. Dev.	Count	Min.Len.(m)	Max.Len.(m)
1.0	**0.0**	**1**	**1.0**	**1.0**