Automation of Six Visual Checks for DFIRM QA/QC



Guidance for Resolving Errors 1301 & 1302 in the Six Checks Report

Check 1301: Invalid line type

- Checks that the flood hazard line surrounding Special Flood Hazard Area polygons are coded with a valid line type.
- Check 1301 logic:
- If S_FLD_HAZ_AR SFHA_TF attribute is coded to "T" and the bounding S_FLD_HAZ_LN LN_TYP is coded as: "Floodway, Limit of Floodway, Limit of Detailed Study, Limit of Study, 1 PCT Annual Chance Flood Hazard, End of Spatial Extent, Zone Break, Apparent Limit, or Source Boundary"

Then: Correct – Please move to next check Else:

An error will be returned as:

"Error 1301: The S_FLD_HAZ_AR polygon <ID> attributed as a Special Flood hazard Area is bound by an invalid S_FLD_HAZ_LN LN_TYP"

Check 1301: Example 1

- Error is called because SFHA polygon is Zone A but surrounded by a line coded "0.2 PCT ANNUAL CHANCE FLOOD HAZARD"
- Auto Report will list the ID of the affected polygon, in this case FLD_AR_ID = '279'
- To correct the error, flood hazard line ID 629 must be coded "1 PCT ANNUAL CHANCE FLOOD HAZARD"

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Close All Results	
[-]QC Rule Check. (3 Errors Found: 3 tables, 3 fields, 12 records; Warnings Found: 3 tables, 3 fields, 5 records/to Errors or Warnings) [3] Warning 1232: Noer Zoro Longth Polyline [2] In Terriss Tawas, (D) (1) N (1 Net(3)) [1] Forma: Tawas, (D) (1) N (1 Net(3)) [2] Forma: Tawas, (D) (2) N (1 Net(3)) [3] Forma: Tawas, (D) (2) N (1 Net(3)) [4] Forma: Tawas, (D) (2) N (1 Net(3)) [5] Forma: Tawas, (D) (2) N (1 Net(3)) [5] Forma: Tawas, (D) (2) N (1 Net(3)) [6] Forma: Tawas, (D) (2) N (1 Net(3)) [6] Forma: Tawas, (D) (2) N (1 Net(3)) [6] Forma: Tawas, (D) (2) N (1 Net(3)) [7] Forma: Tawas, (D) (2) N (1 Net(3)) [7] Forma: Tawas, (D) (2) N (1 Net(3)) [8] Forma: Tawas, (D) (2) N (2)	
All DEFEM QC rules for existing tables and fields are validated. (-) Warning 1232: Near Zeros Length Polykine (-) In Table: B_WTHE_LN(1 Mol(s), 1 record(s)) (-) Record D: 7556 has a stude of d. dbssZerBissGe61	
[-] Warming 1232: (Kear Zeros Carogoli Polytine [-] In Table 8, 547 (1 Molecular 1, 1 Polytine [-] Finite 78, 14, 10 (2) [-] Finite 78, 14, 14, 10 (2) [-] Finite 78, 14, 14, 10 (2) [-] Finite 78, 14, 14, 16 (2) [-] Finite 78, 14, 14, 16 (2) [-] Finite 78, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14	
[-] Error 1301: The following S_FLD_HAZ_AR polygon(s) are attributed as a Special Flood Hazard Area but are bound by an invalid S_FLD_HAZ_LN_LN_TYP: [-] in Table: s_M_Aa_are(Theld(s), incod(s)) [-] in real: FLD_ALO(s)	
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Check 1301: Example 2

- Check 1301 will also find flood hazard lines that overshoot a polygon boundary and overlap the line around the adjacent polygon
- In this example, the 0.2 PCT line around the lower polygon extends upwards past the polygon boundary and touches the 1 PCT polygon
- A 25-foot tolerance was added to Check 1301- lines like this one will be allowed to pass
- Check 1301 will still be called if the overshooting line is longer than 25 feet
- To correct the error, the overshooting line will have to be clipped at the polygon boundary



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QA/QC staff. If you have any questions concerning this review, please do not hesitate to contact the NSP at miphelp@mapmodteam.com.
Categories
Close All Results
[-]QC Rule Check
(2 Errors Found: 2 tables, 2 fields, 7 records; Warnings Found: 1 tables, 1 fields, 2 records)
[-] Warning 1211: Record in the L_COMM_INFO table has an invalid value for REPOS_ST
[-] In Table: L_COMM_INFO (1 field(s), 2 record(s)) [-] In Field: REPOS ST (2)
Record ID: 460243 has a value of: NP
Record ID: 460304 has a value of: NP
[-] Error 1301: The following S_FLD_HAZ_AR polygon(s) are attributed as a Special Flood Hazard Area but are bound by an invalid S_FLD_HAZ_LN LN_TYP: [-] In Table: s_fld_haz_ar (1 field(s), 5 record(s)) [-] In Field: FLD_AR_ID (5)
Record ID: Polygon ID has a value of: 610
Record ID: Polygon ID has a value of: 322 Record ID: Polygon ID has a value of: 498
Record ID: Polygon ID has a value of: 908
Record ID: Polygon ID has a value of: 892

Note the FLD_AR_ID from the Auto Screen Report

For ESRI ArcGIS Users:

- From the Select menu, Choose "Select by Attributes"
- Double click on "FLD_AR_ID", equals sign, and enter the ID number in single quotes

Select By A	ttributes	?×
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<u>M</u> ethod:	Create a new selection	•
"S_FLD_HA "S_FLD_HA "FLD_AR_IC "FLD_ZONE	Z_AR#" Z_AR-ID" ""	
"SFHA_TF"		~
= <>	Like	
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ls	Get Unique <u>V</u> alues <u>G</u> o⊺o:	
SELECT * FR	OM s_fld_haz_ar.polygon <u>W</u> HERE:	
"FLD_AR_ID	'' = '8921	<
Clear	Verify <u>H</u> elp Loa <u>d</u> S	a <u>v</u> e
	OK <u>A</u> pply <u>C</u>	lose

- Zoom to Selected Feature
- If the wrong line type can be clearly seen, then you know what line to fix
- If the polygon is more complicated, you can query for the lines that bound it in the next step...



For ESRI ArcGIS Users:

- Go to the Select Menu
- Choose "Select by Location"
- Select features from the S_FLD_HAZ_LN layer that "share a line segment with" the S_FLD_HAZ_AR layer
- Use selected features (default selection)

Select By Location ? 🗙
Lets you select features from one or more layers based on where they are located in relation to the features in another layer. I <u>w</u> ant to:
select features from
t <u>h</u> e following layer(s):
S_bfe arc ✓ s_fid_haz_in arc S_fid_haz_ar polygon
Only show selectable layers in this list <u>t</u> hat:
share a line segment with
the <u>f</u> eatures in this layer:
s_fld_haz_ar polygon
✓ Use selected features (1 features selected)
Apply a buffer to the features in s_fld_haz_ar polygon
of: 0.000000 Meters
Preview The red features represent the features in s_fld_haz_ar polygon. The highlighted cyan features are selected because they share a line segment with the red features.
Points Lines Polygons
<u>Apply</u> <u>Close</u>

- Open the attribute table for the S_FLD_HAZ_LN layer, show selected features
- Look in the LN_TYP column for invalid values (like 0.2 PCT ANNUAL CHANCE FLOOD HAZARD)
- If there are many incorrect lines, you can filter out the valid ones in the next step....

:ID	Shape	ENODE#	TNODE#	LPOLY#	BPOLY#	LENGTH	S FLD HA7 LN#	S FLD HAZ IN-ID FLD IN ID	
	12 Polyline	0	0	0	0	116,934703	12	12 92	0.2 PCT ANNUAL CHANCE FLOOD HAZARD
-	20 Polyline	0	0	0	0	668 589477	20	20 100	1 PCT ANNUAL CHANCE FLOOD HAZARD
	21 Polyline	0	0	0	0	118.370576	21	21 101	1 PCT ANNUAL CHANCE FLOOD HAZARD
	362 Polyline	0	Ő	0	0	761.125057	362	335 415	1 PCT ANNUAL CHANCE FLOOD HAZARD
	363 Polyline	0	0	0	0	782.929159	363	335 415	1 PCT ANNUAL CHANCE FLOOD HAZARD
	364 Polyline	0	0	0	0	803.149763	364	335 415	1 PCT ANNUAL CHANCE FLOOD HAZARD
	365 Polyline	0	0	0	0	785,760414	365	335 415	1 PCT ANNUAL CHANCE FLOOD HAZARD
	366 Polyline	0	0	0	0	738.642113	366	335 415	1 PCT ANNUAL CHANCE FLOOD HAZARD
	367 Polyline	0	0	0	0	714.580549	367	335 415	1 PCT ANNUAL CHANCE FLOOD HAZARD
	368 Polyline	0	0	0	0	703,786808	368	335 415	1 PCT ANNUAL CHANCE FLOOD HAZARD
	369 Polyline	0	0	0	0	712.279115	369	335 415	1 PCT ANNUAL CHANCE FLOOD HAZARD
	370 Polyline	0	0	0	0	745.495142	370	335 415	1 PCT ANNUAL CHANCE FLOOD HAZARD
	371 Polyline	0	0	0	0	718.075406	371	335 415	1 PCT ANNUAL CHANCE FLOOD HAZARD
	372 Polyline	0	0	0	0	543,418617	372	335 415	1 PCT ANNUAL CHANCE FLOOD HAZARD
	722 Polyline	0	0	0	0	936.621059	722	633 713	ZONE BREAK
	846 Polyline	0	0	0	0	50,769892	846	755 835	1 PCT ANNUAL CHANCE FLOOD HAZARD
	847 Polyline	0	0	0	0	161.876980	847	756 836	1 PCT ANNUAL CHANCE FLOOD HAZARD
	848 Polyline	0	0	0	0	292.340867	848	757 837	1 PCT ANNUAL CHANCE FLOOD HAZARD
	853 Polvline	0	0	0	0	695.940924	853	762 842	1 PCT ANNUAL CHANCE FLOOD HAZARD
	854 Polvline	0	0	0	0	701.476659	854	762 842	1 PCT ANNUAL CHANCE FLOOD HAZARD
	855 Polyline	0	0	0	0	778.302120	855	762 842	1 PCT ANNUAL CHANCE FLOOD HAZARD
	856 Polyline	0	0	0	0	444.294664	856	762 842	1 PCT ANNUAL CHANCE FLOOD HAZARD
	858 Polvline	0	0	0	0	688.018256	858	764 844	1 PCT ANNUAL CHANCE FLOOD HAZARD
	859 Polyline	0	0	0	0	473.562395	859	764 844	1 PCT ANNUAL CHANCE FLOOD HAZARD
	1121 Polyline	0	0	0	0	62.812881	1121	985 1065	1 PCT ANNUAL CHANCE FLOOD HAZARD
	1122 Polyline	0	0	0	0	8.261673	1122	986 1066	1 PCT ANNUAL CHANCE FLOOD HAZARD
	1123 Polyline	0	0	0	0	791.444097	1123	987 1067	1 PCT ANNUAL CHANCE FLOOD HAZARD
	1124 Polyline	0	0	0	0	729.882831	1124	987 1067	1 PCT ANNUAL CHANCE FLOOD HAZARD
	1125 Polyline	0	0	0	0	689.291883	1125	987 1067	1 PCT ANNUAL CHANCE FLOOD HAZARD
	1126 Polyline	0	0	0	0	747.330459	1126	987 1067	1 PCT ANNUAL CHANCE FLOOD HAZARD
	1127 Polyline	0	0	0	0	704.932846	1127	987 1067	1 PCT ANNUAL CHANCE FLOOD HAZARD
	1128 Polvline	0	0	0	0	650.594917	1128	987 1067	1 PCT ANNUAL CHANCE FLOOD HAZARD
	1129 Polyline	0	0	0	0	639.946217	1129	987 1067	1 PCT ANNUAL CHANCE FLOOD HAZARD
	1130 Polvline	0	0	0	0	758.121986	1130	987 1067	1 PCT ANNUAL CHANCE FLOOD HAZARD
	1131 Polyline	0	0	0	0	675.443684	1131	987 1067	1 PCT ANNUAL CHANCE FLOOD HAZARD
	1132 Polyline	0	0	0	0	680.816655	1132	987 1067	1 PCT ANNUAL CHANCE FLOOD HAZARD
	1133 Polyline	0	0	0	0	672.156424	1133	987 1067	1 PCT ANNUAL CHANCE FLOOD HAZARD
	1134 Polvline	0	0	0	0	716.271485	1134	987 1067	1 PCT ANNUAL CHANCE FLOOD HAZARD
	1135 Polyline	0	0	0	0	732.377963	1135	987 1067	1 PCT ANNUAL CHANCE FLOOD HAZARD
	1136 Polyline	0	0	0	0	738.370966	1136	987 1067	1 PCT ANNUAL CHANCE FLOOD HAZARD
	1137 Polyline	0	0	0	0	712.829502	1137	987 1067	1 PCT ANNUAL CHANCE FLOOD HAZARD
	1138 Polyline	0	0	0	0	791.482011	1138	987 1067	1 PCT ANNUAL CHANCE FLOOD HAZARD
	1139 Polyline	0	0	0	0	824,519440	1139	987 1067	1 PCT ANNUAL CHANCE FLOOD HAZARD
	1140 Polyline	-	0	0	0	731.412458	1140	987 1067	1 PCT ANNUAL CHANCE FLOOD HAZARD

Multi-Hazard Flood Map Modernization

For ESRI ArcGIS Users:

- Go to the Select Menu
- Choose Select by Attributes
- Select Layer, S_FLD_HAZ_LN
- Select Method, "Remove from current selection"
- Copy and paste the list of valid line types to remove:
- "LN_TYP" IN ('FLOODWAY', 'LIMIT OF FLOODWAY', 'LIMIT OF DETAILED STUDY','LIMIT OF STUDY', '1 PCT ANNUAL CHANCE FLOOD HAZARD', 'END OF SPATIAL EXTENT', 'ZONE BREAK','SOURCE BOUNDARY','APPARENT LIMIT')

Select By A	ttributes 🛛	? 🗙					
Layer:	s_fid_haz_in arc	•					
Method: Remove from current selection							
"FID" "FNODE#" "TNODE#" "LPOLY#" "RPOLY#" "LENGTH"	~	<					
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<u>I</u> s SELECT * FB	Get Unique <u>V</u> alues <u>G</u> o To: 00M s fld_haz_In_arc WHEBE:						
"LN_TYP" IN DETAILED S FLOOD HAZ BREAK', SOL	N ('FLOODWAY', 'LIMIT OF FLOODWAY', 'LIMIT OF STUDY','LIMIT OF STUDY', 'I PCT ANNUAL CHANCE 'ARD', 'END OF SPATIAL EXTENT', 'ZONE URCE BOUNDARY','APPARENT LIMIT')	~					
Cl <u>e</u> ar	Verify <u>H</u> elp Loa <u>d</u> Say	e					
	OK <u>A</u> pply <u>C</u> lo	se					

Multi-Hazard Flood Map Modernization

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FID	Shape	FNODE#	TNODE#	LPOLY#	RPOLY#	LENGTH	S_FLD_HAZ_LN#	S_FLD_HAZ_LN-ID	FLD_LN_ID	LII_TYP
1	2 Polyline	0	0	0	0	116.934703	12	12	92	0.2 PCT ANNUAL CHANCE FLOOD HAZARD
ecord: 14 4	<u>1</u>	▶ Show: A	All Selected	Records (1 out c	of 1805 Selected.)	Options 🔹			1	

Open the attribute table to see the remaining lines



Multi-Hazard Flood Map Modernization

- Sometimes Check 1301 can be caused by sliver polygons adjacent to the SFHA polygon.
- In this example, the 0.2 PCT polygon is less that 0.1 map units wide.
- You can find these lines by following the next step...

The 0.2 PCT line is within 0.1 meters of the 1 PCT line bounding the polygon in this area



- Clear all selected features
- Re-select the polygon ID you wish to examine
- Go to the Select Menu and choose Select by Location
- Select from S_FLD_HAZ_LN features that "share a line segment with" the S_FLD_HAZ_AR polygon
- Use selected features (default selection)
- Apply a buffer to the features in S_FLD_HAZ_AR
- Set buffer to 0.1 units

Select By Location	P 🗙
Lets you select features from one or more layers based on where they are loo in relation to the features in another layer. I <u>w</u> ant to:	ated
select features from	-
t <u>h</u> e following layer(s):	
□ s_bfe arc ✔ s_fid_haz_in arc □ s_fid_haz_ar polygon	
Only show selectable layers in this list that:	
share a line segment with	•
the <u>f</u> eatures in this layer:	
s_fld_haz_ar polygon	•
✓ Use selected features (1 features selected)	
Apply a buffer to the features in s_fld_haz_ar polygon	
of: 0.100000 Meters 🗨	
Preview	
The red features represent the features in s_fld_haz_ar polygon. The highlighted cyan features are selected because they share a line segment with the red features.	
	>
Points Lines Polygons	

III Selected	Attributes of	s_fld_haz_ln	arc								
FID	Shape	FNODE#	TNODE#	LPOLY#	RPOLY#	LENGTH	S_FLD_HAZ_LN#	S_FLD_HAZ_LN-ID	FLD_LN_ID	LII_TYP	
10	48 Polyline	0	0	0	0	714.212233	1048	941	1021	0.2 PCT ANNUAL CHANCE FLOOD HAZARD	
								1	1		
Record: 14		Show:	All Selected	Records (1 out	of 1805 Selected.)	Options 👻					

Open the attribute table to see the remaining lines



Check 1302: BFE line Undershoot/Overshoot

Multi-Hazard Flood Map Modernization

- Checks that BFE lines extend to the Special Flood Hazard Area boundary
- Checks BFE lines in AE and AH zone polygons with no static BFEs
- Small overshoots and undershoots of less than 25 feet will be allowed to pass
- Check 1302 logic:

If: S_BFE line is within +/- 25 feet of the SFHA boundary

Then: Correct – Please move to next check Else:

An error will be returned as: "Error 1302: The following S_BFE line (s) undershoot or overshoot the SFHA boundary by more than 25 feet"

- This BFE line undershoots the SFHA boundary by more than 25 feet
- To fix the error, the line must be extended to the SFHA boundary
- Small undershoots or overshoots will be allowed to pass if they are less than 25 feet

	- LIMIT OF DETAILED STUDY
Of IRM PRE QARCE Pro - Report: 01049 DEXALD County, AL - Mozilla Firefox	-LIMIT OF STUDY
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Getta Stata 🔂 Laket Hadiae	B S SWIRLIN
Categories D SEC Close All Results	
[-]QC Rule Check (2 Errors Found: 2 tables, 2 fields, 34 recordsNo Errors or Warnings) All DETRM OC rules for existing tables and fields are validated	S, POL, AR
 [-] Error 1301: The following S_FLD_HAZ_AR polygon(s) are attributed as a Special Flood Hazard Area but are bound by [-] In Field: SLD_AR_ID (12) [-] In Field: FLD_AR_ID (12) [-] In Field: FLD_AR_ID (12) [-] In Field: FLD_AR_ID (12) [-] Record ID: Polygon ID has a value of: 01049C00681 Record ID: Polygon ID has a value of: 01049C00681 Record ID: Polygon ID has a value of: 01049C00681 Record ID: Polygon ID has a value of: 01049C00681 Record ID: Polygon ID has a value of: 01049C00681 Record ID: Polygon ID has a value of: 01049C00685 Record ID: Polygon ID has a value of: 01049C00685 Record ID: Polygon ID has a value of: 01049C00687 Record ID: Polygon ID has a value of: 01049C00687 Record ID: Polygon ID has a value of: 01049C00670 Record ID: Polygon ID has a value of: 01049C00675 Record ID: Polygon ID has a value of: 01049C00675 Record ID: Polygon ID has a value of: 01049C00706 Record ID: Polygon ID has a value of: 01049C0076 Record ID: Polygon ID has a value of: 01049C0076 Record ID: Polygon ID has a value of: 01049C0076 Record ID: Polygon ID has a value of: 01049C0076 Record ID: Polygon ID has a value of: 01049C0076 Record ID: Polygon ID has a value of: 01049C0076 Record ID: Polygon ID has a value of: 01049C0076 Record ID: Polygon ID has a value of: 01049C0078 	PCLUMPE Details Carver Town of Marmon Town of Marmon Town of Marmon Town of Swale City of Parameter City of Parameter City of Parameter City of Parameter City of Parameter Supplay Sources Selection
[-] Error 1302: The following S_BFE line(s) undershoot or overshoot the SFHA boundary by more than 25 feet: [-] In Table: s_bfe(1), 622 record(s)) [-] In Field: NA (22) Record ID: Line ID has a value of 01019/200155 Record ID: Line ID has a value of 01019/200155 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has a value of 01019/2001754 Record ID: Line ID has value of 01019/2001	Brawing 💌 📐 🖓 🗐 🛛
Record 10: Line 10 has a value of 01049C00925 Record 10: Line 10 has a value of 01049C00954 Record 10: Line 10 has a value of 01049C00956 Record 10: Line 10 has a value of 01049C00957 Record 10: Line 10 has a value of 01049C00950 Record 10: Line 10 has a value of 01049C00960	



- Check 1302 allows special cases to pass
- BFE lines that do not extend across the SFHA will still pass if the adjacent polygon is not supposed to have BFE lines
- The lines will pass as long as they are within 25 of the polygon boundary in this example



- Check 1302 allows special cases to pass
- BFE lines that do not extend across the SFHA will still pass if they are interrupted by a general structure such as a levee
- The lines will pass as long as they are within 25 feet of the general structure



- Check 1302 can also be caused by BFE lines in a polygon that is not supposed to contain BFE lines
- BFE lines are only allowed in Zone AE or Zone AH with no STATIC_BFE value (not populated or -9999)
- BFE lines outside these areas will be called in Check 1302....

DFIRM QA/QC Pro - Report: 51067 FRANKLIN County, VA - Mozilla Firefox
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Þ 🕶 🍌 - 🤔 🛞 🏠 🗋 http://mercator.hdm.com/qaqc/viewReport.php?id=358108type=Automated%205creening8which=38expand=all
Record ID: 3470 has a value of: 0.539073278963001
All DFIRM QC rules for existing tables and fields are validated.
[-] warning/1232: Near Zero Length Polyline [-] In Table: S WTR LN (1 field(s), 3 record(s))
[-] In Field: WTR_LN_ID (3)
Record ID: 101 has a value of: 0.890954544548589 Record ID: 44 has a value of: 0.290558556003913
Record ID: 26 has a value of: 0.494772675083154
 [-] Warning 1232: Near Zero Length Polyline [-] In Table: S_FLD_HAZ_LN (1 field(s), 1 record(s)) [-] In Field: FLD_LN_ID (1) Record ID: 704 has a value of: 0.642012464332756
 [-] Error 1301: The following S_FLD_HAZ_AR polygon(s) are attributed as a Special Flood Hazard Area but are bound in the second s
 [-] Error 1302: The following S_BFE line(s) undershoot or overshoot the SFHA boundary by more than 25 feet: [-] In Table: s_bfe (1 field(s), 1 record(s)) [-] In Field: N/A (1) [-] In Field: N/A (1)



- Since Check 1302 allows a 25-foot tolerance for BFE placement, it must examine the polygons around the end points to find the SFHA boundary.
- The check creates a 25-foot buffer around the BFE end points. If the BFE is placed correctly, the buffer will touch the polygon containing the BFE, and the non-SFHA polygon just beyond the end point.
- If it only touches the SFHA polygon containing the BFE, it is an undershoot.
- This data set is missing the Zone X area.
 Since the check cannot find the boundary, it interprets it as a BFE undershoot.
- To fix this error, the flood hazard area layer must cover the whole study, including the Zone X beyond the BFE end points.

