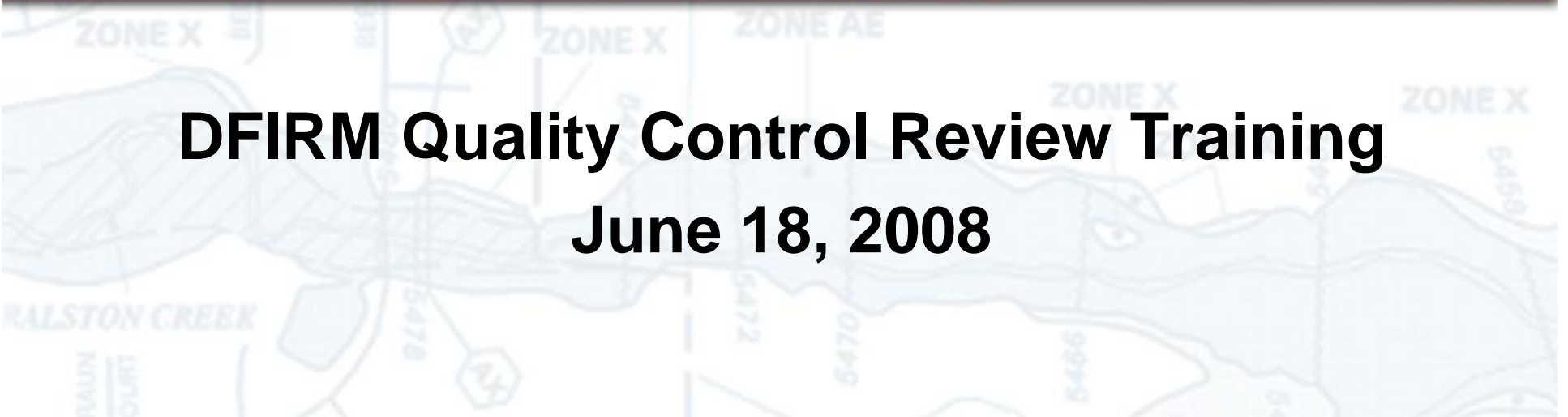


# Automation of Six Visual Checks for DFIRM QA/QC



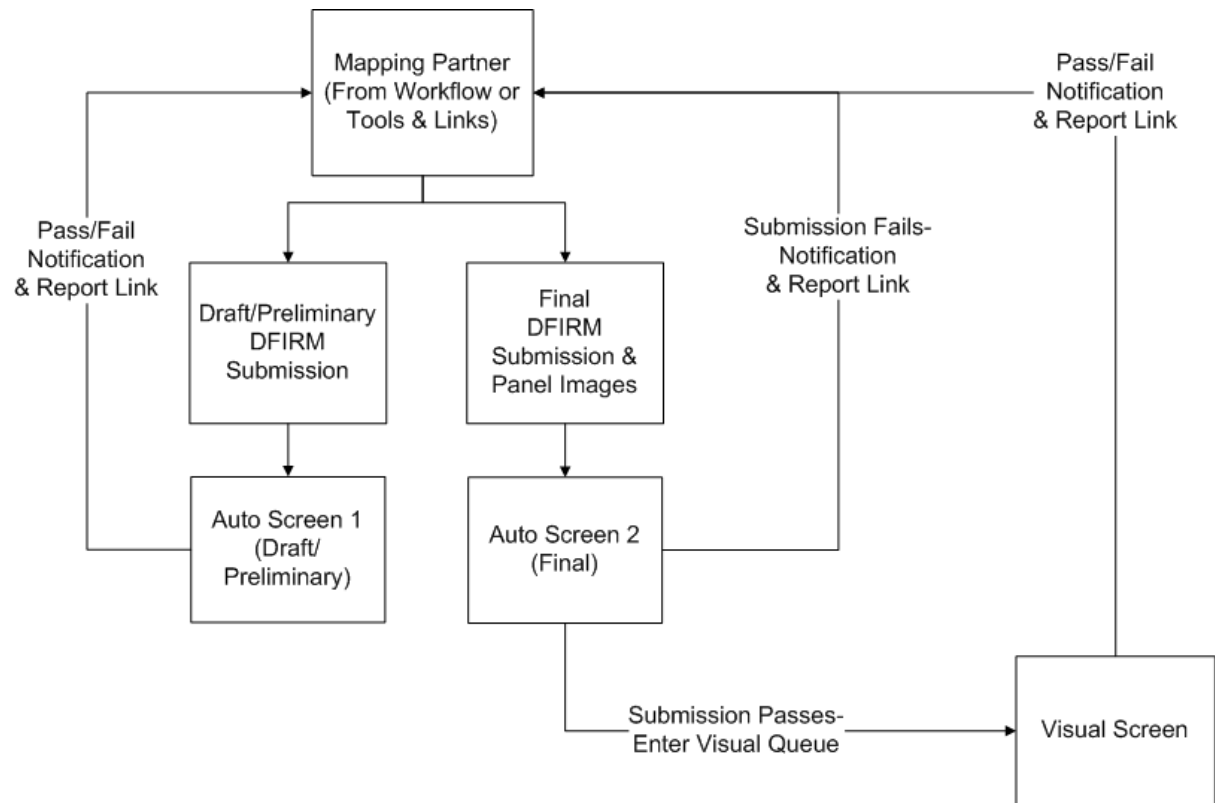
**DFIRM Quality Control Review Training**  
**June 18, 2008**



- **Overview of QA/QC Process**
- **Process change and user impacts & benefits**
- **Summary of each of the six validation checks being moved from Visual Review to Automated Review**
- **Q & A**

# Current QA/QC Process

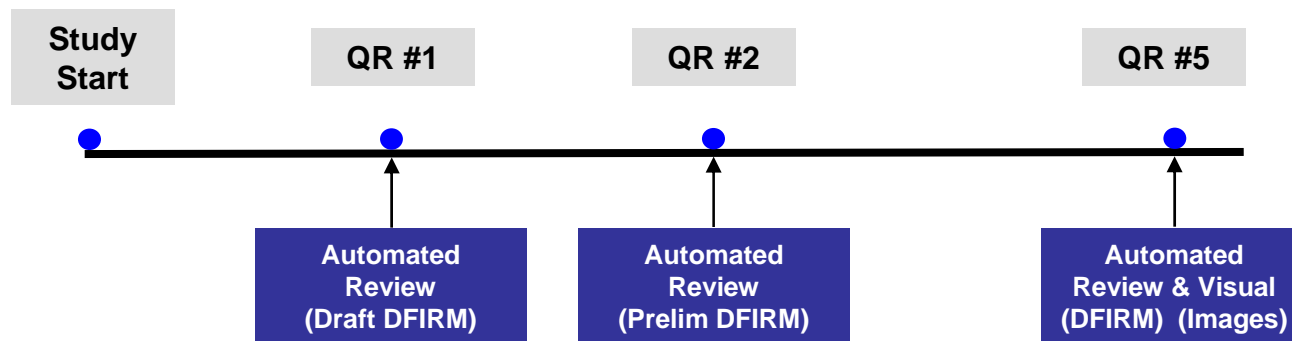
- **Users submit DFIRM data for Automated Review at Draft and at Preliminary stage**
- **Auto Pass/Fail notification and report link sent back to user through MIP**
- **Users submit DFIRM data and panel images for Automated and Visual Review at Final stage**
- **Auto and Visual Pass/Fail notification and report link sent back to user through MIP**



# QA/QC Process Change

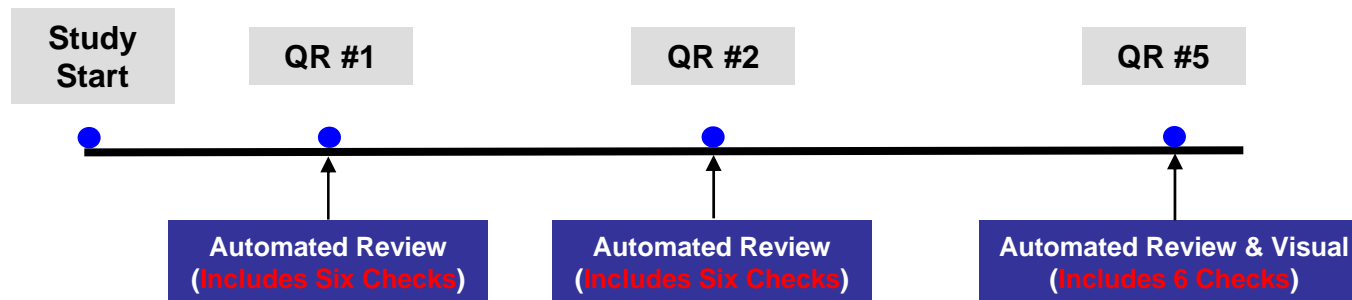
Multi-Hazard Flood  
Map Modernization

## Current DFIRM Review Process



---

## New DFIRM Review Process



# Impact of Process Change

- **Six checks added to the Draft submission**
  - May increase the errors received; will not validate data not present in submission (will not increase failures for “structure only” submissions)
  - Will find errors earlier in the process, giving users more time to resolve
  - Management impact:
    - Partners may need to spend more time resolving errors before prelim submission
  - **June 19, 2008** (any DFIRM that is submitted for the first time as part of Quality Review #1; any DFIRM re-submittals after this date will not be subjected to these checks).
  
- **Six checks added to Prelim & Final submissions**
  - Will increase errors received; project cannot proceed until errors are resolved (PM 42)
  - Will find errors earlier in the process, giving users more time to resolve
  - Management impact:
    - Additional errors for prelim submissions, along with hard stop until errors are resolved, may delay prelim unless more time is planned (cost/schedule increase)
  - **June 19, 2008** (any DFIRM that is submitted for the first time as part of Quality Review # 3 or #5; DFIRM re-submittals after this date will not be subjected to these checks).

- **Transition Studies**

- Studies submitted for the first time prior to deployment will need to be monitored
- MOD Team will review error reports and pass studies with only 1300 Series errors
- Email to [joseph.schule@mapmodteam.com](mailto:joseph.schule@mapmodteam.com) with questions or concerns regarding FAFS notifications

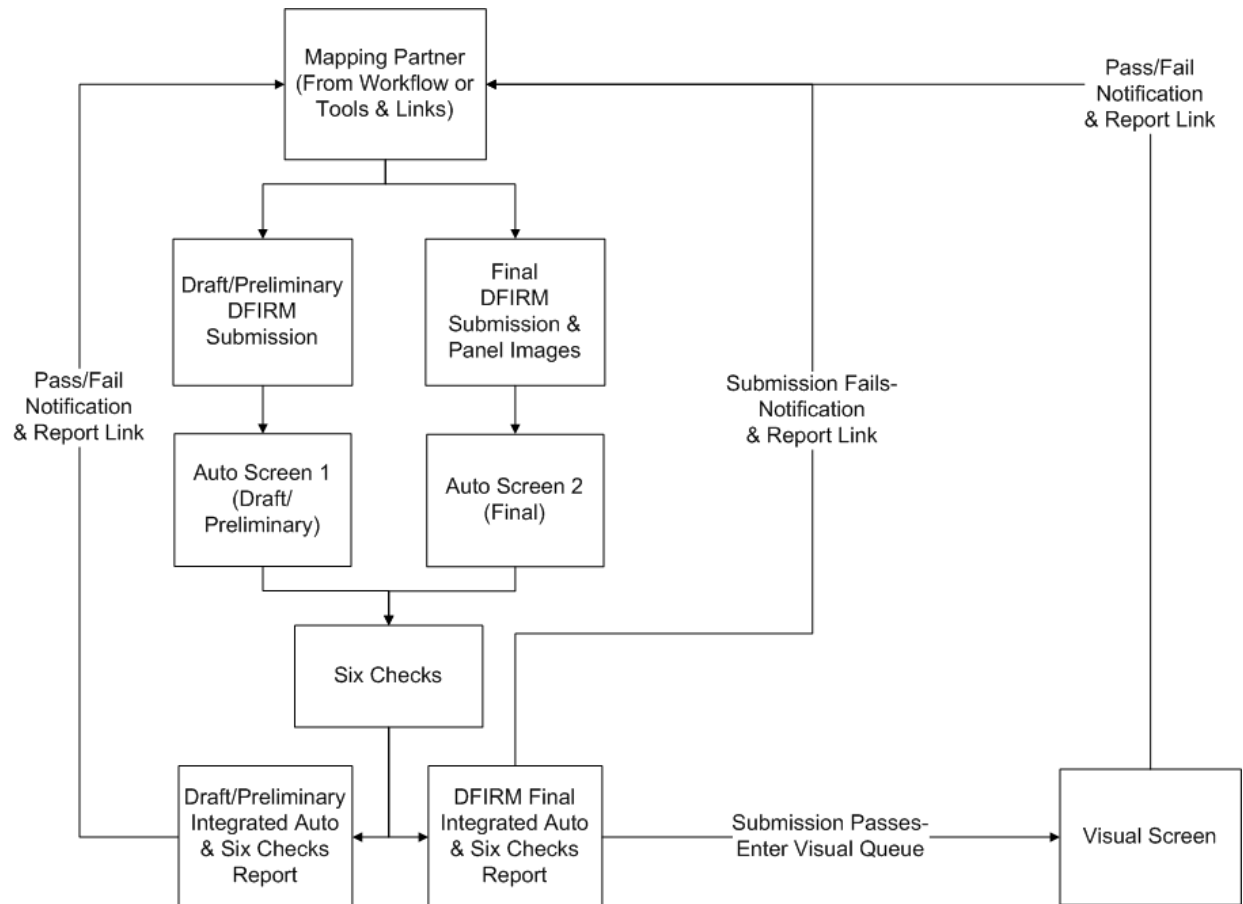
# Benefits of Process Change

Multi-Hazard Flood  
Map Modernization

- **Early detection of 1300 Series errors improves data quality and reduces recycle rate of subsequent submissions**
- **Known tolerances – make adjustments to production process to stay within tolerances**
- **Will increase the quality of the end product by catching errors that would slip through visual inspection**

# New QA/QC Process

- After completing Auto review, each submission then enters Six Checks
- Users will then receive an integrated report showing checks for the existing Auto Screen and the Six Checks
- Users do not have to make any changes to the way they send data
- Users will have to correct errors called by Six Checks to pass Auto
- Users should receive a shorter Visual report since errors will have been fixed earlier

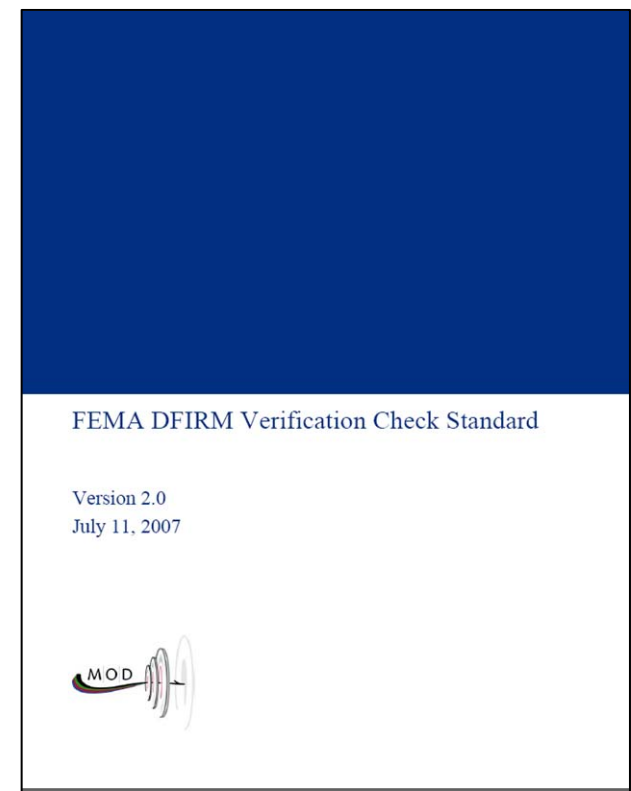




# Six new checks moved from Visual to Automated review

Logic descriptions found in “FEMA DFIRM Verification Check Standard”, v2.0, July 11, 2007

- **Check 2.9.1.1 (Error 1301) SFHA polygons must be surrounded by a flood hazard line with a valid LN\_TYP**
- **Check 2.9.1.2 (Error 1302) BFE lines must end within 25 feet of the SFHA boundary**
- **Check 2.9.1.3 (Error 1303) BFE lines must not intersect**
- **Check 2.9.1.4 (Error 1304) Vertical datum cited in the STUDY\_INFO table must match the vertical datum for every cross section (S\_XS) line**
- **Check 2.9.1.5 (Error 1305) Vertical datum cited in the STUDY\_INFO table must match the vertical datum for every BFE (S\_BFE) line**
- **Check 2.9.1.6 (Warning 1306) The PNP\_REASON field must be populated for every non-printed panel in S\_FIRM\_PAN**



# 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

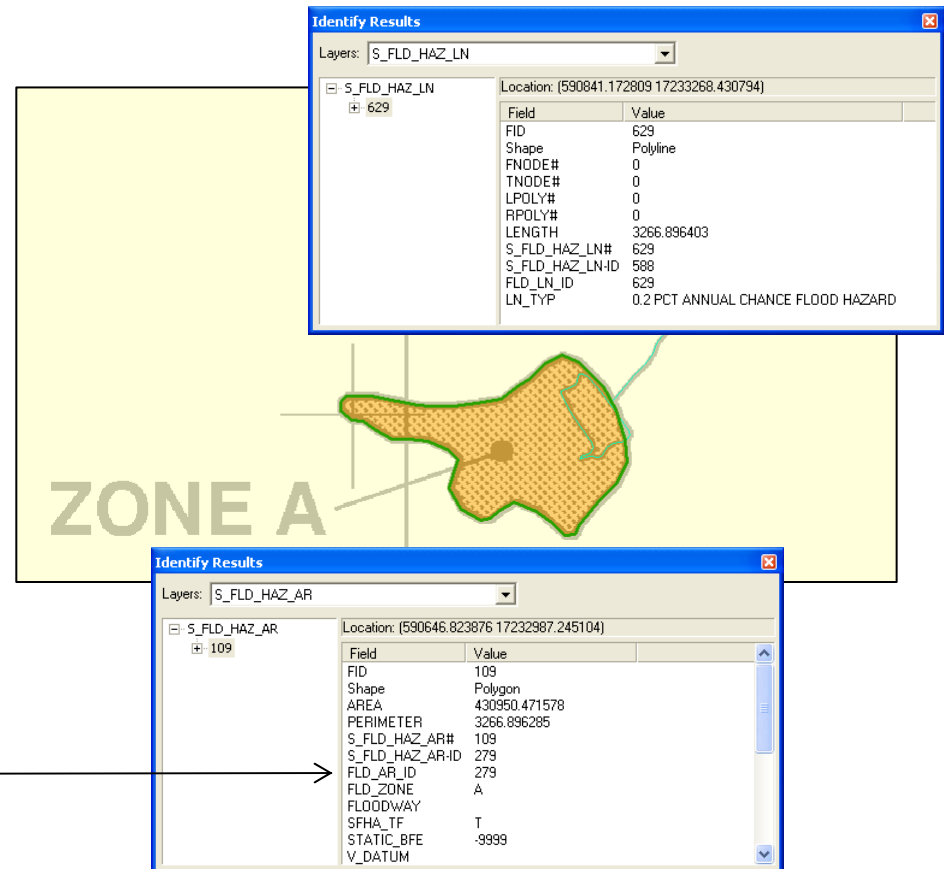
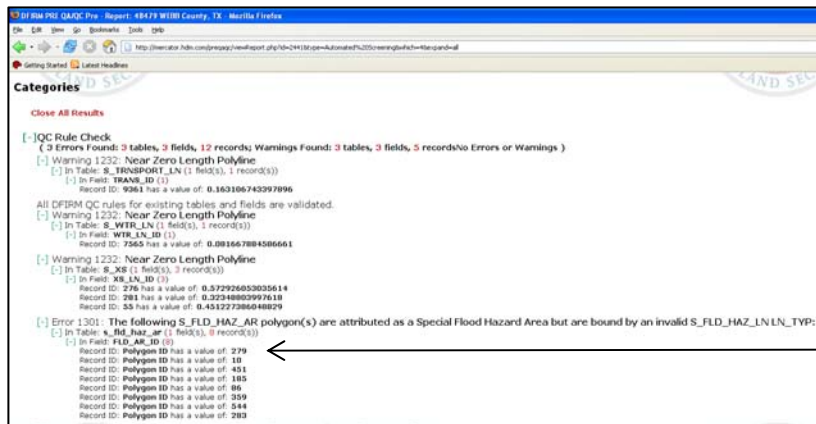
Else:

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”





# Check 1302: BFE line Undershoot/Overshoot

- 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”

# Check 1302: BFE line Under/Overshoot Example 1

- 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

DI BFM PRE QA/QC Rep - Report: 01049 DIXALB County, AL - Mozilla Firefox

Categories

Close All Results

[-] QC Rule Check  
( 2 Errors Found: 2 tables, 2 fields, 34 records/No Errors or Warnings )

All DFIRM QC rules for existing tables and fields are validated.

[-] Error 1301: The following S\_FLD\_HAZ\_AR polygon(s) are attributed as a Special Flood Hazard Area but are bound by

[-] In Table: s\_fid\_haz\_ar (1 field(s), 12 record(s))

[-] In Field: FLD\_AR\_ID (12)

Record ID: Polygon ID has a value of: 01049C00602  
 Record ID: Polygon ID has a value of: 01049C00601  
 Record ID: Polygon ID has a value of: 01049C00690  
 Record ID: Polygon ID has a value of: 01049C00608  
 Record ID: Polygon ID has a value of: 01049C00609  
 Record ID: Polygon ID has a value of: 01049C00678  
 Record ID: Polygon ID has a value of: 01049C00685  
 Record ID: Polygon ID has a value of: 01049C00677  
 Record ID: Polygon ID has a value of: 01049C00676  
 Record ID: Polygon ID has a value of: 01049C00675  
 Record ID: Polygon ID has a value of: 01049C00708  
 Record ID: Polygon ID has a value of: 01049C00736

[-] 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), 22 record(s))

[-] In Field: N/A (22)

Record ID: Line ID has a value of: 01049C01455  
 Record ID: Line ID has a value of: 01049C00794  
 Record ID: Line ID has a value of: 01049C00903  
 Record ID: Line ID has a value of: 01049C00925  
 Record ID: Line ID has a value of: 01049C00954  
 Record ID: Line ID has a value of: 01049C00956  
 Record ID: Line ID has a value of: 01049C00957  
 Record ID: Line ID has a value of: 01049C00958  
 Record ID: Line ID has a value of: 01049C00960

BFE line undershoots SFHA boundary by more than 25 feet

1000

1014

995.1

VisualScreenXML.mxd - ArcMap - ArcView

VisualScreen Main View

11.333

Identify Results

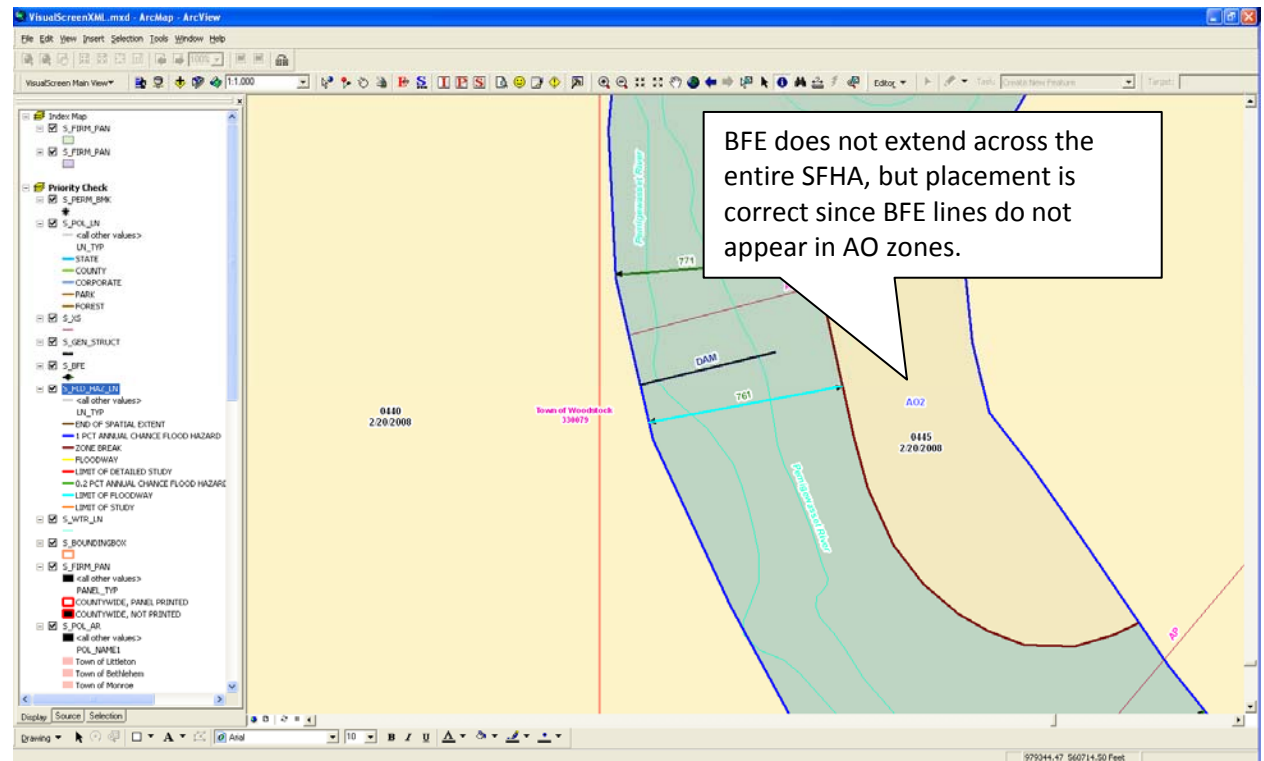
Layers: S\_BFE

S\_BFE 01049C01455

Field	Value
FID	5
Shape	Polyline
FNODE#	0
TNODE#	0
LPOLY#	0
RPOLY#	0
LENGTH	33.912223
S_BFE#	5
S_BFE_ID	5
BFE_LN_ID	01049C01455
ELEV	1014
LEN_UNIT	FEET
V_DATUM	NAVD88
SOURCE_CIT	FIS4

# Check 1302: BFE line Under/Overshoot Example 2

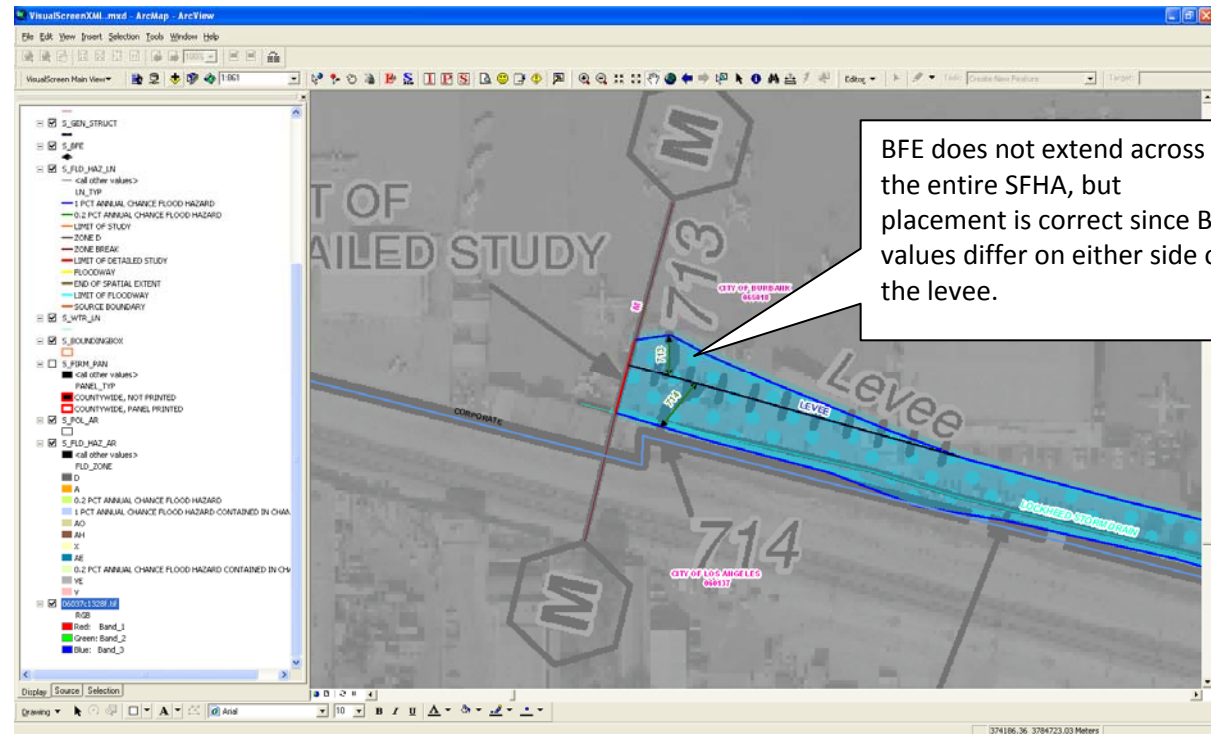
- Check 1302 allows special cases to pass
- BFE lines that do not extend across the SFHA will still pass if the adjacent polygon is not supposed to have BFE lines
- The lines will pass as long as they are within 25 of the polygon boundary in this example



# Check 1302: BFE line Under/Overshoot Example 3

Multi-Hazard Flood Map Modernization

- 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 1303: BFE lines do not intersect

- Checks that BFE lines to not intersect any other BFE lines.
- Check 1303 logic:

If S\_BFE line does not overlap or touch another S\_BFE line

Then:

Correct – Please move to next check

Else:

An error will be returned as: “Error 1303: The S\_BFE line <ID> overlaps or touches another S\_BFE line”

# Check 1303: BFE lines do not intersect Example

- These two BFE lines (ID 222 and ID 223) overlap each other
- To correct this error, one of the lines needs to be removed

The screenshot shows the ArcView interface with a map of flood hazard areas. Two blue lines, representing BFE (Base Flood Elevation) lines, are shown overlapping. A callout box points to the overlap with the text "BFE line ID 222 and 223 overlap". An "Identify Results" window is open, showing details for the selected lines. The "Identify Results" window shows the following fields and values:

Field	Value
FID	222
Shape	Polyline
FNODE#	446
TNODE#	441
LPOLY#	0
RPOLY#	0
LENGTH	228.367448
S_BFE#	222
S_BFE-ID	208
BFE_LN_ID	222
LEN_UNIT	FEET
V_DATUM	NAVD88
SOURCE_CIT	STUDY1

In the background, a browser window displays error messages from the DFIRM QA/QC Pro software. The messages include:

- Warning 1232: Near Zero Length Polyline
- Error 1301: The following S\_FLD\_HAZ\_AR polygon(s) are attributed as a Special
- Error 1303: The following S\_BFE line(s) overlap or touch another S\_BFE line:
- Error 1302: The following S\_BFE line(s) undershoot or overshoot the SFHA bound

# Check 1304: V\_DATUM must match

- Checks that the vertical datum cited in the study\_info table matches the vertical datum cited for every cross section line
- Check 1304 logic:

If: S\_XS V\_Datum field is equal to the V\_Datum field in the STUDY\_INFO table.

Then:

Correct – Please move to next check

Else:

An error will be returned as: “Error 1304: The S\_XS line <ID> V\_Datum attribute does not match the V\_Datum attribute in the STUDY\_INFO table”

# Check 1304: V\_DATUM must match Example

- The vertical datum cited in **STUDY\_INFO** is “NAVD88” while the vertical datum is mistyped as “NADV88” in the **S\_XS** table
- To correct this error, **V\_DATUM** must be changed to “NAVD88” for every cross section

XS_LN_TYP	SOURCE_CIT	AREA_LID	VEL_LID	SHAPE_LENG	LEN_UNIT	V_DATUM
LETTERED	FIS1		-8888 NP	743.748484	FEET	NADV88
LETTERED	FIS1		-8888 NP	891.335966	FEET	NADV88
LETTERED	FIS1		-8888 NP	876.405497	FEET	NADV88
LETTERED	FIS1		-8888 NP	853.471659	FEET	NADV88
LETTERED	FIS1		-8888 NP	824.596273	FEET	NADV88
LETTERED	FIS1		-8888 NP	924.897920	FEET	NADV88
LETTERED	FIS1		-8888 NP	977.067286	FEET	NADV88
LETTERED	FIS1		-8888 NP	1006.181563	FEET	NADV88
LETTERED	FIS1		-8888 NP	997.550424	FEET	NADV88
LETTERED	FIS1		-8888 NP	1098.061022	FEET	NADV88
LETTERED	FIS1		-8888 NP	1176.081094	FEET	NADV88
LETTERED	FIS1		-8888 NP	1097.973085	FEET	NADV88
LETTERED	FIS1		-8888 NP	1208.566305	FEET	NADV88
LETTERED	FIS1		-8888 NP	703.558548	FEET	NADV88
LETTERED	FIS1		-8888 NP	743.538210	FEET	NADV88
LETTERED	FIS1		-8888 NP	729.628855	FEET	NADV88

DFIRM PRE QA/QC Pro - Report: 04021 PINAL County, AZ - Mozilla Firefox

Getting Started | Latest Headlines

DFIRM PRE QA/QC Pro - Report: 04021 PINAL County, AZ - Mozilla Firefox

Record ID: Line ID has a value of: 20  
Record ID: Line ID has a value of: 21  
Record ID: Line ID has a value of: 22  
Record ID: Line ID has a value of: 23  
Record ID: Line ID has a value of: 24  
Record ID: N/A has a value of: Total 796 records

[-] Error 1304: The V\_DATUM for the following S\_XS line(s) do not match the V\_DATUM in the STUDY\_INFO table:  
[-] In Table: s\_xs (1 field(s), 22 record(s))  
[-] In Field: V\_DATUM (22)  
Record ID: Line ID has a value of: 677  
Record ID: Line ID has a value of: 677  
Record ID: Line ID has a value of: 677  
Record ID: Line ID has a value of: 70  
Record ID: Line ID has a value of: 71  
Record ID: Line ID has a value of: 72  
Record ID: Line ID has a value of: 73  
Record ID: Line ID has a value of: 74  
Record ID: Line ID has a value of: 75  
Record ID: Line ID has a value of: 76  
Record ID: Line ID has a value of: 78  
Record ID: Line ID has a value of: 79  
Record ID: Line ID has a value of: 81  
Record ID: Line ID has a value of: 83  
Record ID: Line ID has a value of: 84  
Record ID: Line ID has a value of: 85  
Record ID: Line ID has a value of: 86  
Record ID: Line ID has a value of: 87  
Record ID: Line ID has a value of: 88  
Record ID: Line ID has a value of: 89  
Record ID: Line ID has a value of: 90  
Record ID: N/A has a value of: Total 422 records

STUDY_ZIP	DOQ_BASE	V_DATUM
	T	NAVD88

# Check 1305: V\_DATUM must match

- Checks that the vertical datum cited in the study\_info table matches the vertical datum cited for every BFE line
- Check 1305 logic:

If: S\_BFE V\_Datum field is equal to the V\_Datum field in the STUDY\_INFO table.

Then:

Correct – Please move to next check

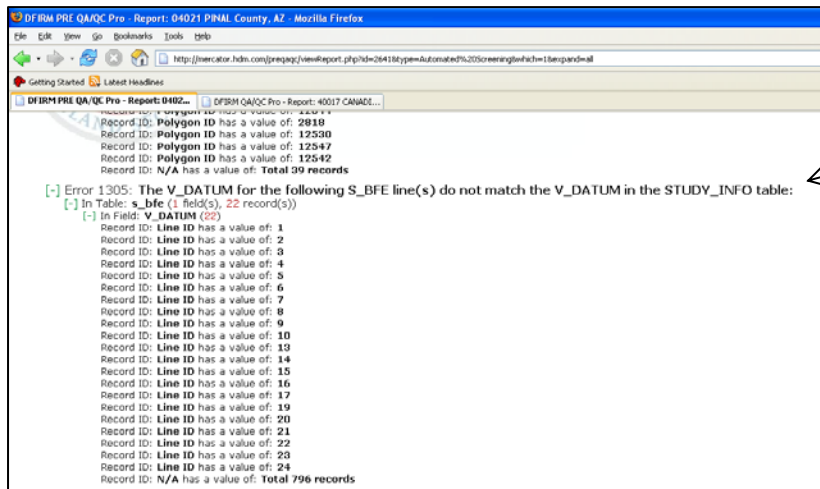
Else:

An error will be returned as: “Error 1305: The BFE line <ID> V\_Datum attribute does not match the V\_Datum attribute in the STUDY\_INFO table”

# Check 1305: V\_DATUM must match Example

Multi-Hazard Flood  
Map Modernization

- The vertical datum cited in **STUDY\_INFO** is “NAVD88” while the vertical datum is mistyped as “NADV88” in the **S\_BFE** table
- To correct this error, **V\_DATUM** must be changed to “NAVD88” for every BFE line



SOURCE_CIT	SHAPE_LEN	LEN_UNIT	V_DATUM	ELEV
FIRM1	960.388196	FEET	NADV88	2367
FIRM1	917.949993	FEET	NADV88	2365
FIRM1	874.596499	FEET	NADV88	2363
FIRM1	818.626708	FEET	NADV88	2362
FIRM1	753.551201	FEET	NADV88	2361
FIRM1	783.518511	FEET	NADV88	2360
FIRM1	774.394714	FEET	NADV88	2359
FIRM1	742.948081	FEET	NADV88	2358
FIRM1	734.141986	FEET	NADV88	2357
FIRM1	742.697063	FEET	NADV88	2356
FIRM1	798.484746	FEET	NADV88	2353
FIRM1	844.634291	FEET	NADV88	2352
FIRM1	1136.420480	FEET	NADV88	2351
FIRM1	1022.946194	FEET	NADV88	2350

STUDY_ZIP	DOQ_BASE	V_DATUM
	T	NAVD88

# Check 1306: Panel-not-printed Reason

- Checks that the PNP\_REASON field is populated for every non-printed panel in S\_FIRM\_PAN
- Check 1306 logic:

If: S\_FIRM\_PAN PANEL\_TYP field is populated as Countywide, Not Printed or Community Based, Not Printed and the PNP\_REASON is field populated with a string

Then:

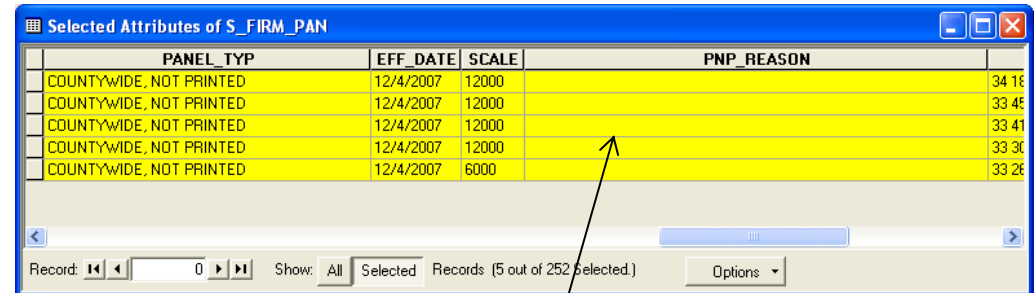
Correct – Please move to next check

Else:

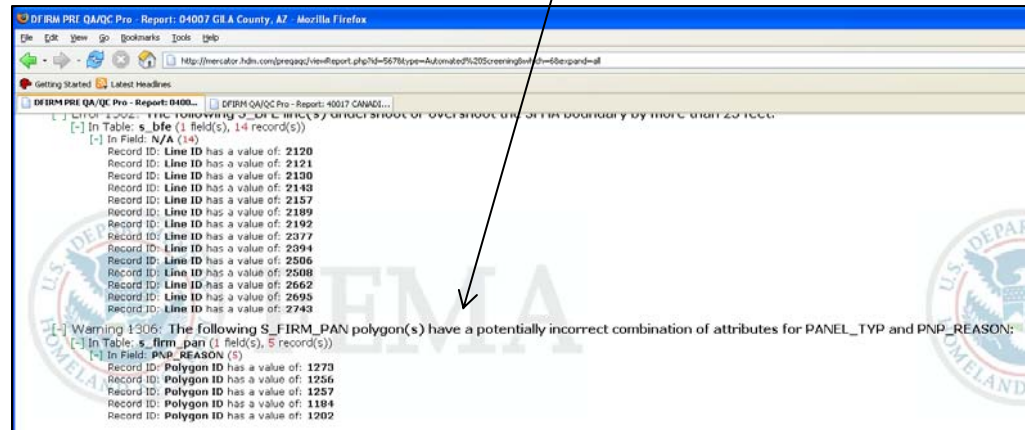
An error will be returned as: “Warning 1306: The S\_FIRM\_PAN polygon <ID> has a potentially incorrect combination of attributes for PANEL\_TYP and PNP\_REASON.”

# Check 1306: Panel-not-printed Reason Example

- The PNP\_REASON is blank for these five records even though the PANEL\_TYP is “COUNTYWIDE, NOT PRINTED”
- To correct this problem, the PNP\_REASON field must be populated with the panel-not-printed reason
- The specific wording for the panel-not-printed reason will still be validated against the Index Map during visual inspection



PANEL_TYP	EFF_DATE	SCALE	PNP_REASON
COUNTYWIDE, NOT PRINTED	12/4/2007	12000	
COUNTYWIDE, NOT PRINTED	12/4/2007	12000	
COUNTYWIDE, NOT PRINTED	12/4/2007	12000	
COUNTYWIDE, NOT PRINTED	12/4/2007	12000	
COUNTYWIDE, NOT PRINTED	12/4/2007	6000	



Warning 1306: The following S\_FIRM\_PAN polygon(s) have a potentially incorrect combination of attributes for PANEL\_TYP and PNP\_REASON:

- Record ID: Polygon ID has a value of: 1273
- Record ID: Polygon ID has a value of: 1256
- Record ID: Polygon ID has a value of: 1257
- Record ID: Polygon ID has a value of: 1184
- Record ID: Polygon ID has a value of: 1202



# Report Examples

The screenshot shows a web browser window with the following content:

- Browser title: DFIRM PRE QA/QC Pro - Report: 06025 IMPERIAL County, CA - Mozilla Firefox
- Address bar: http://mercator.hdm.com/preqaqc/viewReport.php?id=3522&type=Automated%20Screening&which=2&expand=all
- Report content:
  - Record ID: N/A has a value of: **Total 722 records (22128 to 33890)**
  - [-] 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), 22 record(s))**
    - [-] In Field: FLD\_AR\_ID (22)**
      - Record ID: Polygon ID has a value of: 4707
      - Record ID: Polygon ID has a value of: 2640
      - Record ID: Polygon ID has a value of: 2725
      - Record ID: Polygon ID has a value of: 4143
      - Record ID: Polygon ID has a value of: 4744
      - Record ID: Polygon ID has a value of: 4713
      - Record ID: Polygon ID has a value of: 3936
      - Record ID: Polygon ID has a value of: 3270
      - Record ID: Polygon ID has a value of: 3858
      - Record ID: Polygon ID has a value of: 2684
      - Record ID: Polygon ID has a value of: 3017
      - Record ID: Polygon ID has a value of: 2996
      - Record ID: Polygon ID has a value of: 2996
      - Record ID: Polygon ID has a value of: 4143
      - Record ID: Polygon ID has a value of: 2996
      - Record ID: Polygon ID has a value of: 4143
      - Record ID: Polygon ID has a value of: 3009
      - Record ID: Polygon ID has a value of: 2997
      - Record ID: Polygon ID has a value of: 3009
      - Record ID: Polygon ID has a value of: 3009
      - Record ID: Polygon ID has a value of: 3545
      - Record ID: N/A has a value of: **Total 448 records**
  - [-] Error 1303: The following S\_BFE line(s) overlap or touch another S\_BFE line:**
    - [-] In Table: s\_bfe (1 field(s), 22 record(s))**
    - [-] In Field: N/A (22)**
      - Record ID: Line ID has a value of: 2919
      - Record ID: Line ID has a value of: 2912
      - Record ID: Line ID has a value of: 3223
      - Record ID: Line ID has a value of: 3224
      - Record ID: Line ID has a value of: 3220
      - Record ID: Line ID has a value of: 3224
      - Record ID: Line ID has a value of: 3220
      - Record ID: Line ID has a value of: 3223
      - Record ID: Line ID has a value of: 3300
      - Record ID: Line ID has a value of: 3301
      - Record ID: Line ID has a value of: 3322
      - Record ID: Line ID has a value of: 3299
      - Record ID: Line ID has a value of: 3301
      - Record ID: Line ID has a value of: 3322
      - Record ID: Line ID has a value of: 3299
      - Record ID: Line ID has a value of: 3300
      - Record ID: Line ID has a value of: 3322
      - Record ID: Line ID has a value of: 3299
      - Record ID: Line ID has a value of: 3300
      - Record ID: Line ID has a value of: 3301
      - Record ID: Line ID has a value of: 3334
      - Record ID: N/A has a value of: **Total 22 records**
  - [-] 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), 22 record(s))**



# Report Examples

DFIRM PRE QA/QC Pro - Report: 06025 IMPERIAL County, CA - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://mercator-hdm.com/reqaac/viewReport.php?id=3522&type=Automated%20Screening&which=2&expand=all

Getting Started Latest Headlines

Record ID: Line ID has a value of: 3334  
Record ID: Line ID has a value of: 3334  
Record ID: N/A has a value of: Total 22 records

**[ - ] 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), 22 record(s))**

**[ - ] In Field: N/A (22)**

Record ID: Line ID has a value of: 2352  
Record ID: Line ID has a value of: 2375  
Record ID: Line ID has a value of: 2484  
Record ID: Line ID has a value of: 2676  
Record ID: Line ID has a value of: 2679  
Record ID: Line ID has a value of: 2818  
Record ID: Line ID has a value of: 2912  
Record ID: Line ID has a value of: 2919  
Record ID: Line ID has a value of: 3395  
Record ID: Line ID has a value of: 3557  
Record ID: Line ID has a value of: 3559  
Record ID: Line ID has a value of: 3568  
Record ID: Line ID has a value of: 3569  
Record ID: Line ID has a value of: 3578  
Record ID: Line ID has a value of: 3586  
Record ID: Line ID has a value of: 3587  
Record ID: Line ID has a value of: 3605  
Record ID: Line ID has a value of: 3261  
Record ID: Line ID has a value of: 3284  
Record ID: Line ID has a value of: 3292  
Record ID: Line ID has a value of: 3299  
Record ID: N/A has a value of: Total 35 records

**[ - ] Attributes Check**  
( Warnings Found: 5 tables, 5 fields, 9 records )

**[ - ] Warning 1030: Attribute value does not match value in the domain or lookup table**

**[ - ] In Table: L\_STN\_START (1 field(s), 3 record(s))**

**[ - ] In Field: START\_ID (3)**

Record ID: 1 has a value of: 1  
Record ID: 26 has a value of: 26  
Record ID: 4 has a value of: 4

**[ - ] Warning 1030: Attribute value does not match value in the domain or lookup table**

**[ - ] In Table: S\_GEN\_STRUCT (1 field(s), 3 record(s))**

**[ - ] In Field: STRUCT\_TYP (3)**

Record ID: 71 has a value of: STRUCTURE CONTAINS 1 PCT FLOOD EVENT  
Record ID: 75 has a value of: STRUCTURE CONTAINS 1 PCT FLOOD EVENT  
Record ID: 79 has a value of: STRUCTURE CONTAINS 1 PCT FLOOD EVENT

**[ - ] Warning 1030: Attribute value does not match value in the domain or lookup table**

**[ - ] In Table: S\_WTR\_LN (1 field(s), 1 record(s))**

**[ - ] In Field: WATER\_TYP (1)**

Record ID: 1946 has a value of: PROFILE BASELINE AND STREAM CENTELINE

**[ - ] Warning 1038: The Projection Zone in the STUDY\_INFO table does not match the Projection Zone in the metadata**

**[ - ] In Table: Metadata File (1 field(s), 1 record(s))**

**[ - ] In Field: N/A (1)**

Record ID: N/A has a value of: N/A

Done

# Report Examples

DFIRM PRE QA/QC Pro - Report: 33009 GRAFTON County, NH - Mozilla Firefox

http://mercator.hdm.com/preqaqc/viewReport.php?id=23638&type=Automated%20Screening&which=38&expand=all

### Categories

[Close All Results](#)

**[-] QC Rule Check**  
( 3 Errors Found: 3 tables, 3 fields, 15 records; Warnings Found: 3 tables, 3 fields, 5 records )

- [-] Warning 1200: For the polygon, both fields V\_DATUM and STATIC\_BFE must be populated or both fields V\_DATUM and STATIC\_BFE must be null;**
  - [-] In Table: S\_FLD\_HAZ\_AR (1 field(s), 1 record(s))**
    - [-] In Field: STATIC\_BFE (1)**  
Record ID: N/A has a value of: **Total 1231 records (100 to 999)**
- [-] Warning 1086: The field FIRM\_PANEL was not constructed with the correct combination (sequence) of values derived from four neighboring fields: ST\_FIPS PCOMM PANEL and SUFFIX**
  - [-] In Table: S\_FIRM\_PAN (1 field(s), 1 record(s))**
    - [-] In Field: FIRM\_PAN (1)**  
Record ID: 148 has a value of: **33009C0889**
- [-] 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), 1 record(s))**
    - [-] In Field: FLD\_AR\_ID (1)**  
Record ID: **Polygon ID** has a value of: **392**
- [-] Error 1303: The following S\_BFE line(s) overlap or touch another S\_BFE line:**
  - [-] In Table: s\_bfe (1 field(s), 4 record(s))**
    - [-] In Field: N/A (4)**  
Record ID: **Line ID** has a value of: **586**  
Record ID: **Line ID** has a value of: **370**  
Record ID: **Line ID** has a value of: **749**  
Record ID: **Line ID** has a value of: **746**
- [-] 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), 10 record(s))**
    - [-] In Field: N/A (10)**  
Record ID: **Line ID** has a value of: **115**  
Record ID: **Line ID** has a value of: **150**  
Record ID: **Line ID** has a value of: **536**  
Record ID: **Line ID** has a value of: **537**  
Record ID: **Line ID** has a value of: **731**  
Record ID: **Line ID** has a value of: **903**  
Record ID: **Line ID** has a value of: **1092**  
Record ID: **Line ID** has a value of: **1098**  
Record ID: **Line ID** has a value of: **1399**  
Record ID: **Line ID** has a value of: **1455**
- [-] Warning 1306: The following S\_FIRM\_PAN polygon(s) have a potentially incorrect combination of attributes for PANEL\_TYP and PNP\_REASON:**
  - [-] In Table: s\_firm\_pan (1 field(s), 3 record(s))**
    - [-] In Field: PNP\_REASON (3)**  
Record ID: **Polygon ID** has a value of: **190**  
Record ID: **Polygon ID** has a value of: **208**  
Record ID: **Polygon ID** has a value of: **189**

Find: grafton Find Next Find Previous Highlight all Match case

Done

# Report Examples

DFIRM PRE QA/QC Pro - Report: 04021 PINAL County, AZ - Mozilla Firefox

http://mercator.hdm.com/preqaqc/viewReport.php?id=2641&type=Automated%20Screening&which=1&expand=all

Getting Started Latest Headlines

Record ID: Polygon ID has a value of: 12542  
Record ID: N/A has a value of: Total 39 records

[ - ] Error 1305: The V\_DATUM for the following S\_BFE line(s) do not match the V\_DATUM in the STUDY\_INFO table:  
[-] In Table: s\_bfe (1 field(s), 22 record(s))  
[-] In Field: V\_DATUM (22)  
Record ID: Line ID has a value of: 1  
Record ID: Line ID has a value of: 2  
Record ID: Line ID has a value of: 3  
Record ID: Line ID has a value of: 4  
Record ID: Line ID has a value of: 5  
Record ID: Line ID has a value of: 6  
Record ID: Line ID has a value of: 7  
Record ID: Line ID has a value of: 8  
Record ID: Line ID has a value of: 9  
Record ID: Line ID has a value of: 10  
Record ID: Line ID has a value of: 13  
Record ID: Line ID has a value of: 14  
Record ID: Line ID has a value of: 15  
Record ID: Line ID has a value of: 16  
Record ID: Line ID has a value of: 17  
Record ID: Line ID has a value of: 19  
Record ID: Line ID has a value of: 20  
Record ID: Line ID has a value of: 21  
Record ID: Line ID has a value of: 22  
Record ID: Line ID has a value of: 23  
Record ID: Line ID has a value of: 24  
Record ID: N/A has a value of: Total 796 records

[ - ] Error 1304: The V\_DATUM for the following S\_XS line(s) do not match the V\_DATUM in the STUDY\_INFO table:  
[-] In Table: s\_xs (1 field(s), 22 record(s))  
[-] In Field: V\_DATUM (22)  
Record ID: Line ID has a value of: 677  
Record ID: Line ID has a value of: 677  
Record ID: Line ID has a value of: 677  
Record ID: Line ID has a value of: 70  
Record ID: Line ID has a value of: 71  
Record ID: Line ID has a value of: 72  
Record ID: Line ID has a value of: 73  
Record ID: Line ID has a value of: 74  
Record ID: Line ID has a value of: 75  
Record ID: Line ID has a value of: 76  
Record ID: Line ID has a value of: 78  
Record ID: Line ID has a value of: 79  
Record ID: Line ID has a value of: 81  
Record ID: Line ID has a value of: 83  
Record ID: Line ID has a value of: 84  
Record ID: Line ID has a value of: 85  
Record ID: Line ID has a value of: 86  
Record ID: Line ID has a value of: 87  
Record ID: Line ID has a value of: 88  
Record ID: Line ID has a value of: 89  
Record ID: Line ID has a value of: 90  
Record ID: N/A has a value of: Total 422 records

Find: pinal Find Next Find Previous Highlight all Match case

Done

