



FEMA



Pre-QR3 Submission Questionnaire and Self-Certification Form

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Study Name	Brazoria County, TX
MIP Case Number	16-06-1963S
Mapping Partner	COMPASS
Sub-consultant(s)	N/A
Project Manager (Name, email, phone)	Sean O'Melveny
QR2 Passing Date	4/5/2018
Planned QR3 Submittal Date	4/9/2018
What is the Project's present SPI? If out of FEMA tolerance, please describe any quality factors you feel contribute to the variance.	1.0
What is the Project's present CPI? If out of FEMA tolerance, please describe any quality factors you feel contribute to the variance.	1.0
Please list the flooding source(s) that are newly studied or restudied with this map action. Please also indicate those flooding sources where redelineation was performed (using updated terrain data) without new engineering analysis.	Revised Preliminary updating the following areas updating the following areas <ol style="list-style-type: none"> 1) Bastrop Bayou and Tributaries per comments from City of Lake Jackson (BFEs, Profiles, FDT, Lettered XS) 2) Marys Creek (Floodway, SFHA) per comments from City of Pearland 3) Small Zone AE (EL 13) SFHA to match to Galveston County, TX Revised Prelim 4) San Bernard River to incorporate Upper San Bernard Watershed study and to match this study in Wharton and Fort. Bend Counties, TX.



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<p>Please describe your pre-QR3 internal validation (inspection) activities. You may use the Comments section as needed.</p> <p>Please also attach your quality records (checklists, call sheets, etc) that demonstrate how your internal reviews were conducted.</p>	<ol style="list-style-type: none"> 1) Revised Preliminary, only adjusting per revisions noted in box above and only in those areas. 2) Passed DVT reviews 3) See attached forms documenting internal QA/QC review.
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(Page 2)

<p>Please indicate the results of your assessment of potential mismatches between adjacent counties. Provide details for identified mismatches. If there are no mismatches, please indicate how this was determined.</p>	<p>As noted, this revised prelim corrects mismatches between Brazoria County with Galveston County on the East and Fort Bend/ Wharton Counties along the San Bernard River in the West. No other mismatches identified after reviewing NHFL (Prelim and Effective) and MSC maps for non-modernized counties.</p>
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<p>Please provide any FEMA-approved project-related decisions that directly affect the results shown on the study being submitted for independent review.</p>	<p>This is a revised prelim. While not part of the revised prelim Seclusion is being applied to several study reaches. Some of these reaches are on the Revised Prelim Panels. Levees are still not accreditable and LAMP is not finished, so seclusion remains.</p>
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<p>Please itemize issues or concerns you wish to be known before the QR3 review begins.</p> <p>If your comments are extensive, please use the "Comments" section below or create a separate document to attach to this form.</p>	<ol style="list-style-type: none"> 1) This is a revised preliminary for the areas previously listed. 2) San Bernard Watershed study is new/updated detailed for areas. Profile was revised. 3) Bastrop Bayou changes reflect updated BFEs and lettered XS and other information, previously shown in the models, but not reflected on the FIRMs. 4) Marys Creek Revisions reflect changes requested by City of Pearland to reflect orthoimagery on a vector base map.
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<p>To the best of your knowledge, does this study comply with all FEMA standards identified in the project Mapping Activity Statement and/or Scope of Work and has passed the QR2 review stage?</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
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If you selected "No", please provide an explanation in the "Comments" section below.

Comments: N/A


Self-Certification

RiskMAP
Increasing Resilience Together



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I certify that the information provided on this form is complete and correct and the study being submitted for QR3 is ready for independent review.		3/28/2018
	Mapping Partner Signature	Date
	Sean O'Melveny	
	Printed Name	

FIRM DB QA Report for Submission

Review the submission results for the FIRM DB QA validation.

Project Name:	(REG) Brazoria County, TX (Coastal Revised, Seclusion)
FEMA Case Number:	16-06-1963S
Submission Type:	Draft
CID:	48039C
FIRM DB Schema:	2003 FIRM Database Schema
Submit Date and Time:	04/05/2018 08:26:28 PM
Submission Status:	Passed
Number of Checks Failed:	0
Number of Checks with Warnings:	2

Verification Categories

[▼ Expand All](#) [▶ Collapse All](#)

▶ Spatial (0 check(s) failed, 2 warning(s))

*** End of Results ***

[Print](#)[Close](#)

QR3 Checklist / Quality Record

Study Name		Reviewer	Date (mm/dd/yyyy)		
Brazoria Co., TX (16-06-1963S) (Seclusion, Coastal, New Restudies) - Revised Preliminary		Brie Hurwitch	4/2/2018 to 4/9/2018		
ID	FIS/FIRM Compliance Check		Reviewer Comment	Originator Disposition	Originator Comments
Flood Insurance Rate Map Review					
1	Areas Not Included are properly identified in the database and mapped correctly on the FIRM.	Pass			
2	All political area lines are present on the FIRM.	Pass			
3	Political areas are labeled with correct CID and community name on the FIRM.	Pass			
4	Contiguous study mismatches introduced by the new analysis and legacy mismatches outside the scope of the FIRM revision are clearly itemized and noted on the Pre-QR3 Self-Certification form. Flooding sources being revised in contiguous communities are not introducing mismatches.	Pass			
5	Hydraulic structures mapped correctly and agree with Flood Profiles. If flooding is contained in the hydraulic structure, proper map notes are used.	Pass			
6	All hydrologic features inside of 1 percent annual chance floodplain (streams, lakes, ponds, oceans, etc) are properly labeled on the FIRM.	Pass	Confirmed City of Pearland, Marys Creek revised Floodway, SFHA and pond names per community comments		
7	Stream center lines, profiles baselines, and coastal transect baselines are symbolized correctly when applicable.	Fail	1) Panel 440: Fix font size for Oyster Creek labels (2 locations) to be consistent with panel 2) Panel 440: Add profile baseline labels on Bastrop Bayou Ditch 1 and Bastrop Bayou East Tributary 3) Panel 605: Add profile baseline labels on Bastrop Bayou Ditch 1, Bastrop Bayou East Tributary, Bastrop Bayou Ditch 3, Bastrop Bayou West Tributary 4) Panel 605: Recommend another 'Bastrop Bayou East Tributary' label near the Bastrop Bayou Ditch 1 label in upper right corner of panel 5) Panel 390: Remove space in "BASE LINE" on Mound Creek profile baseline	Will Comply and Make Correction	Comment 6 - Streamline not a PBL and is unnamed
8	Transportation features are properly symbolized and labeled on the FIRM.	Pass			
9	2003 Format: Bench Marks are labeled and correct on the FIRM. 2011/2013 Format: website location for the Local vertical monuments information is included in the FIRM Notes to Users (if applicable).	Pass			
10	River mile markers are labeled on the FIRM and agree with Flood Profile.	Pass			
11	Flood elevations or depths are indicated/depicted in all AE, VE, AO, and AH flood zones.	Pass			

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ID	FIS/FIRM Compliance Check		Reviewer Comment	Originator Disposition	Originator Comments
12	Floodway widths on the FIRM are accurate and agree with Floodway Data table.	Pass	Only reviewed Bastrop Bayous and Tributaries, and San Bernard River revised areas		
13	Floodplains and floodways on the FIRM are properly symbolized and labeled per the FEMA G&S.	Fail	1) Panel 605: Fix AE Zone symbol (shading)	Will Comply and Make Correction	Fixed symboogy, checked all relevant panels to ensure symbology is correct
14	Lettered/Numbered Cross section placement on the FIRM agrees with Flood Profiles and the labeling is correct.	Fail	1) Panel 605: Fix lettered cross section C symbol on Bastrup Bayou Ditch 1 - looks like it runs into cross section AD to west 2) Panel 605: Where is cross section D	Will Comply and Make Correction	Comment 2 - XS D was mislabeled on panel 440 as F, fixed label on 440 to be correct
15	"Backwater" and "Flooding controlled by" on the FIRM is depicted properly and agrees with Flood Profiles and Floodway Data tables.	Pass			
16	Limit of Study on the FIRM is properly labeled and symbolized.	Pass			
17	The Limit of Moderate Wave Action (LiMWA) symbology and notes are correct. LiMWA line is shown within AE zone only on the FIRM.	Pass			
18	Streams and lakes on the FIRM are contained within the floodway and/or floodplain.	Pass			
19	Zone breaks (gutters) are properly depicted on the FIRM.	Pass			
20	All FIRM notes are present and correct.	Fail	See comments about missing profile baseline labels	Will Comply and Make Correction	Added PBL labels
21	Coastal Transects are labeled on the FIRM and agree with tables in the FIS.	Pass			
22	The coastal apparent limit extends far enough offshore to cover all islands or man-made structures like piers.	Pass			
23	Coastal gutters and boundaries as well as LiMWA tie in to adjacent communities.	Pass			
24	Gutters along shorelines are clearly visible (white gutter on top of white beach background).	Pass			
25	Transects that extend across multiple panels are consistently labeled on each panel.	Pass			
26	Transects are shown at consistent starting and ending locations throughout the county.	Pass			
27	LiMWA is not shown inside the V-Zone or beyond the 1% floodplain boundary.	Pass			
28	Shoreline shown on the map matches the model source.	Pass			
29	BFE elevations and flood zones are consistent across rivers and bays; if they are not consistent, documentation exists to support the inconsistency.	Pass	Verified changes per community request		
30	Adjacent flood zones separated by zone breaks (gutters) have different zone designations or BFEs.	Pass			
31	The transect baseline is shown and intersects the seaward end of all transects.	Pass			
32	Coastal gutters are smooth and curvilinear at map scale and meet the requirements of the study.	Pass			
33	Coastal flood zone widths are sufficiently large to be differentiated at map scale.	Pass			
34	0.2%-annual-chance wave envelope profiles are included in the FIS report, if applicable.	Pass			

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ID	FIS/FIRM Compliance Check		Reviewer Comment	Originator Disposition	Originator Comments
35	FIRM flood elevations agree with Flood Profiles, Floodway Data tables, and Summary of Stillwater Elevation tables.	Pass			
36	All Lettered/Numbered cross sections are in alphabetical/numerical order, Flood Elevation value is shown with every cross section (if applicable).	Fail	Panel 605: Cross section D on Bastrop Bayou Ditch 1 is missing	Will Comply and Make Correction	See comment on line 14
37	CBRS boundaries, screens and notes/labels on the FIRM are correct (including CBRS Legend and FWS' telephone numbers).	Pass			
38	Horizontal reference grid labels are present and correct (including PLSS labels) on the FIRM.	Fail	Panel 440: Fix 5000-foot grid values with decimals on left side of map with "XXX999.99 FT" and on top of map with	Will Comply and Make Correction	Corrected grid labels
39	Corner coordinates are correct and legible on the FIRM.	Pass			
40	Levees are mapped in accordance with FEMA guidance and proper levee notes are present on the FIRM.	Pass			
41	FIRM map label halos are present.	Pass			
42	2003 Format: Joins panel numbers are present and correct on the FIRM. 2011/2013 Format: Panel Locator is present and correct in FIRM collar.	Pass			
43	Breakout panels within smaller scale panels are properly labeled on the FIRM.	Pass			
44	No overprints are on the FIRM that obscure features within or near flooding.	Pass			
45	FIRM coincident line hierarchy is correct.	Pass			
46	All NFIP Program dates are correct.	Pass			
47	Horizontal and vertical datum is listed and correct on the FIRM collar.	Pass	Matches DB and FIS		
48	Map Number/Panel Number is present and correct on the FIRM title block.	Pass			
49	Map scale is correct in the FIRM Legend.	Pass			
50	Projection information is present and correct on the FIRM collar.	Pass	Matches DB and FIS		
51	Base map source note is present and correct in Notes to User section of the FIRM.	Pass	Matches FIS		
52	North arrow is present in the FIRM Legend.	Pass			
53	2003 Format: FIRM Legend is correct. 2011/2013 Format: FIRM Legend notes are correct and agree with FIS.	Pass			
54	FIRM Legend agrees with the FIRM mapping symbology.	Pass			
55	2003 Format: "See Map Index" note is present in the FIRM title block. 2011/2013 Format: FIS report reference note is present in the FIRM Legend.	Pass			

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ID	FIS/FIRM Compliance Check		Reviewer Comment	Originator Disposition	Originator Comments
56	Title Block is correct (Community names, Study Name, CIDs, Map Number, Map Suffix and Panel Number).	Pass			
57	"Panel__ of __" number is correct in FIRM title block	Pass			
58	Title block indicates "Effective Date" for a first time FIRM or "Map Revised" for a revised FIRM.	Pass	Map Revised		
59	Preliminary, or Revised Preliminary, date stamp is present and correct on FIRM panel(s) and FIS Report(s) cover and FIRM Index(es) (if applicable) and Preliminary Notes are added to FIRM Index and FIS report.	Fail	Panels 340, 440, 605, 610, 615: Fix Revised Prelim date which says June 39	Will Comply and Make Correction	Changed to correct Revised Prelim dates
60	DHS logo and agency title are present on the FIRM and FIS.	Pass			
Flood Insurance Rate Map Index Review					
61	"Panel Not Printed" note and asterisks is correct on FIRM Index.	Pass	925		
62	FIRM Index title block is correct (study name, map number, map number suffix, "Effective" or "Revised" date and listing of printed panels).	Pass			
63	All communities, including NSFHA communities, are correctly noted on the FIRM Index and in the FIS	Pass			
64	All political boundaries on the FIRM Index (and HUC-8 boundaries if applicable) are present and correct.	Pass			
65	Major hydrographic features are shown, correctly symbolized, and labeled (if applicable).	Pass			
66	North arrow and scale bar are present on the FIRM Index (if applicable).	Pass			
67	All FIRM Index notes are correct.	Pass			
68	2003 Format: Map repositories for all mapped communities are present and correct on the FIRM Index. 2011/2013 Format: Map Repositories for all mapped communities are present and correct on the Map Repositories table in the FIS report.	Fail	1) Avin City: remove comma after Public Services Facility Building 2) Bonney: zip code does not match CIS; reconcile 3) Jones Creek: Remove 't' from 'Jones Creek' 4) Oyster Creek: reconcile zip code with	Will Comply and Make Correction	Comment 2 and 4 - Updated CIS with correct zip codes
69	Major transportation features are shown, correctly symbolized, and labeled (if applicable).	Pass			
70	2003 Format: All information on Listing of Communities table on the FIRM Index is correct. 2011/2013 Format: NFIP Jurisdictions table has accurate community names, CIDs, and titles; FIRM Panel listing for each community is correct with Panels Not Printed footnoted as such.	Fail	1) Brazoria City should be listed before Brazoria County 2) Lake Jackson and Sandy Point: confirm Initial FIRM Date compared to FIRM Effective Date in FIS Table 9	Will Comply and Make Correction	Comment 1 - Flipped listings for Brazoria City and Brazoria County Comment 2 - Updated Listing of Communities for Lake Jackson; updated FIS Table 9 for Sandy Point & re-exported Table 9
Flood Insurance Study Report Review					
71	Correct vertical and horizontal scale on Flood Profiles in the FIS Report.	Pass	Only reviewed Bastrop Bayous and Tributaries, and San Bernard River revised profiles		
72	All FIS Report Cover Sheets show correct community names and CIDs, print volume number, suffix and date, and NSFHA communities are footnoted as such.	Fail	CIS shows there is a Village of Lake Barbara. A quick web search indicates it may have incorporated with Clute. Confirm there should not be a Lake Barbara added to FIS.	Disagree – See Originator Comments	Correct, Lake Barbara is no longer a community, so is not included in FIS, FIRMs or DB.

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ID	FIS/FIRM Compliance Check		Reviewer Comment	Originator Disposition	Originator Comments
73	2003 Format: Map history dates on Notice to User page are correct. 2011/2013 Format: Map history dates and community information in the Community Map History table are correct and communities without SFHA are footnoted as such.	Pass			
74	2003 Format: Intro paragraph is correct in the FIS Report (communities listed, multi-county communities and No Special Flood Hazard Areas identified). 2011/2013 Format: NFIP Jurisdictions table has accurate community names, CIDs, and titles and communities without SFHA are footnoted as such; FIRM Panel listing for each community is correct with Panels Not Printed Footnoted as such.	Pass			
75	All tables and figures are present and correct in the FIS .	Fail	1) Fix asterisk placement in Table 2 to show which streams were studied in 3rd revision as footnoted. 2) Add Bastrop Bayou Ditch 1 and Bastrop Bayou Ditch 3 to Table 2. 3) Do Bastrop Bayou Ditch 1 and Bastrop Bayou Ditch 3 need to be added to Tables 3 and 4.	Will Comply and Make Correction	1 & 2) -- Corrected as noted - 2nd round comment: see markup in FIS 3) Will not these streams add to Tables 3 and 4, as this information is not available.
76	2003 Format: Hydrologic and Hydraulic sections in the FIS Report describe the methods and modeling used for each detailed study stream. 2011/2013 Format: Detailed studied streams are present and correct on Summary of Hydrologic and Hydraulic Analyses table.	Pass	Mainly reviewed Section 10 for revisions		
77	Vertical Datum Conversion information in the FIS Report is correct (if applicable).	Pass			
78	Stream stationing note is correct on Flood Profiles and Floodway Data Tables.	Pass	Only reviewed Bastrop Bayous and Tributaries, and San Bernard River revised profiles		
79	Footnotes on Floodway Data tables are correct and agree with Flood Profiles.	Pass	Only reviewed Bastrop Bayous and Tributaries, and San Bernard River revised profiles		
80	2003 Format: All numbered sections, tables, and figures are present in the Table of Contents. 2011/2013 Format: All required sections, tables, and figures are present in the Table of Contents and in the FIS body. Note "Not applicable to this FIS Project" is added to the not applicable sections.	Pass			
81	All structures and cross sections on the Flood Profiles in the FIS Report agree with the FIRM.	Pass	Only reviewed Bastrop Bayous and Tributaries, and San Bernard River revised profiles		
82	Flood Profile line symbology, notes, and labels are correct.	Fail	Fix levee note on profile 11(a) to match the others (text within white background)	Will Comply and Make Correction	Corrected as best as possible using .pdf edit tools
83	Flood Profiles in the FIS Report agree with FIRM (all notes such as county boundary, corporate limits, limit of detailed study, railroad, roads, "Confluence With", etc.).	Pass	Only reviewed Bastrop Bayous and Tributaries, and San Bernard River revised profiles		
84	Flood Profile title block and collar information is correct .	Fail	There is a 112P profile and a 112P transect. Transects need to start at 113P. Also correct on TOC for all 4	Will Comply and Make Correction	Corrected transect numbering as noted

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85	"Backwater" and "Flooding controlled by" depicted properly on the Flood Profiles and Floodway Data tables in the FIS and agree with the FIRM.	Pass	Only reviewed Bastrop Bayous and Tributaries, and San Bernard River revised profiles		
86	Wave setup is properly noted in the FIS and FIS tables.	Pass			
87	Correct/appropriate flooding sources are listed in the FIS Stillwater Elevation table.	Pass			
88	All appropriate coastal FIS components are included (Stillwater Elevation table, Transect Data table, Engineering description, CBRA description, etc.).	Pass			
89	Vertical datum is listed correctly on the Floodway Data table and Flood Profile.	Pass			
90	FIS Report PDF(s) are bookmarked and contains no more than 150 pages for a single volume FIS, and no more than 100 pages for a multi-volume FIS.	Pass			
91	All information on Community Map History table in the FIS Report is correct.	Fail	See Item 70 - Lake Jackson and Sandy Point: confirm Initial FIRM Date compared to FIRM Effective Date in FIS	Will Comply and Make Correction	Comment 1 - Flipped listings for Brazoria City and Brazoria County Comment 2 - Updated Listing of Communities for Lake Jackson; updated FIS Table 9 for Sandy Point & re-exported Table 9
Summary of Map Actions Review					
92	All effective LOMCs within the project footprint are included in the SOMA. (Note: dropped cases, conditional cases, informational letters and denial determinations should be excluded).	Pass			
93	Structure removals are not included in Category 1 on the SOMA.	Pass			
94	LOMRs are not included in Category 2 on the SOMA.	Pass			
95	LOMRs and single-determination LOMCs are not included in Category 4 for redetermination/reissuance on the SOMA.	Pass			
96	When multiple determination LOMAs and LOMR-Fs include both removal and non-removal determinations, and all determinations remain the same based on the new or revised mapping, the case is included in Category 2 and the new zone is listed as 'X' in the MIP SOMA Tool; on the Revalidation Letter the new zone has been changed to 'Multiple' if it was formerly shown as "X".	Pass			
97	The correct map number and map suffix are listed in the new map panel field for each LOMC and the correct old map panel is listed for the old panel field.	Pass			
98	All cases included on the SOMA in Category 2 are listed with the new zone listed as 'X' in MIP SOMA Tool.	Pass			
99	LOMCs issued prior to the effective date of the current FIRM panel are included on the SOMA only if they are listed on a current revalidation letter for the community.	Pass			
100	Case number, date issued and project identifier are correct for each LOMC listed. The project identifier should have a complete and correct legal description and address.	Fail	1) Lake Jackson: Add project identifier to superseded case R6-97-03-000 2) Manvel: Project identifier cut off on case 14-06-1760A. 3) Brazoria County: Case 03-06-1345A should be before 03-06-1338A	Will Comply and Make Correction	1) Case is not available (and not found), unknown Project ID. Will leave blank, as this is part of reason it is superseded (see also original prelim SOMA for this community). 2) Adjust SOMA to show full text for this Case. 3) Switched cases as noted.
101	Legacy Primary Frontal Dune LOMAs have not been included in category 2 on the SOMA.	Pass			
102	Community name and CID number are correct.	Pass			

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Preliminary Transmittal Letter					
103	CEO's name and title are correct.	Fail	1) Alvin City: address should be 216 West Sealy Street 2) Bailey's Prairie: CIS says city in address block should be Angleton; reconcile 3) Brazoria County: address should be East Locust Street 4) Manvel: CEO says Debra Davision	Will Comply and Make Correction	1) Corrected as noted - BH 2) Corrected CIS for CEO only, FPA and Map Repo are still in Angleton - 2nd Round Comment: Did not see this corrected 3) Corrected as noted - BH 4) Corrected as noted - 2nd Round Comment: Letter salutation says old Mayor name -- Fixed Saluation.
104	Community name and type is correct, including county and state (i.e: Town, City, Borough, Municipality, Township, etc.).	Pass			
105	CID is correct.	Pass			
106	Preliminary date is correct.	Pass			
107	Website link to posted preliminary FIS and FIRM is correct; (http://www.fema.gov/preliminaryfloodhazarddata).	Pass			
108	SOMA language is correct (as applicable).	Pass			
109	FEMA Regional contact is listed and the contact information is correct.	Pass			
110	FEMA Map Information eXchange (FMIX) is correctly cited with correct phone number and email address.	Pass			
111	All applicable enclosures are included.	Pass			
112	All cc: and bcc: copies are listed and correct.	Pass			
Other					
113	2003 Format: LOMRs properly incorporated and converted to be in the same datum. 2011/2013 Format: LOMRs properly incorporated and converted to be in the same datum. All incorporated LOMRs are listed in the Incorporated Letters of Map Change table.				
114	Vertical Datum conversion factor(s) properly applied to the FIRM, Flood Profiles, and Floodway Data tables.				
Total failure citations for this QR3 review		16			
Percent Passing		86%			
Other Comments					

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ID	FIS/FIRM Compliance Check	Reviewer Comment	Originator Disposition	Originator Comments
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1)	FIS: Remove highlight on "TBD" on page 93 --	-- corrected as noted - BH		
2)	FIS: Add comma after "City of Iowa Colony" in "Community" column of Table 11 - Incorporated LOMRs, as well as a comma after "Chocolate Bayou" in "Flooding Source" column	-- corrected as noted - BH		
3)	FIS: Add a period after second sentence on page 36, section 3.3.5	-- corrected as noted - BH		
4)	Second-round comment: See a couple comments within FIS - BH			
5)	All letters: Remove bracket and extra space in first sentence: "for (Brazoria County, Texas"	--corrected as noted - BH		
6)	See additional markups in letters saved with "_DC" in file path --corrected as noted - BH			