1 *Overview*

2 Hosted feature layers in **ArcGIS Online** (AGOL) can be opened in either **ArcMap** v10.5.1 or **ArcGIS Pro** v2.2.3
3 and edited locally (i.e. on your desktop). Edits can then be/are synchronized back to the hosted feature layer
4 in the *ESRI Cloud* so that all users in the *Group* can see the changes in *Web Maps*, *Dashboards*, and *Web Map*
5 *Apps*.

6 The steps for accomplishing this in **ArcMap** and **ArcGIS Pro** are summarized in this document. This symbol ✱
7 indicates a critical step or criteria to accomplish the task.

8 *The Basic Steps*

9 An **ArcMap**/**ArcGIS Pro** comparison of a simplified workflow for editing hosted feature layers on your desktop.

Step	ArcMap v10.5.1		ArcGIS Pro v2.2.3		Step
1	Start ArcMap and open a new or existing *Map Document*		Start ArcGIS Pro and open a new/existing *Project*		1
2	Add the hosted feature layer	[Page 2]	Add the hosted feature layer	[Page 6]	2
3	Create a local copy	[Page 3]			
4	Make edits	[Page 4]	Make edits	[Page 7]	3
5	Synchronize layer to server	[Page 5]			
	Edit changes are now visible in AGOL components				
6	Disconnect local copy	[Page 5]			
			Edit changes are now visible in AGOL components		
7	Save *Map Document* and exit ArcMap		Save *Project* and exit ArcGIS Pro		4

10 Table 1: ArcMap and ArcGIS Pro –Basic Steps

11 **ArcGIS Pro** provides hosted feature layer editing in real-time, **ArcMap** provides editing in near real-time with
12 manual user actions.

13 The discussion that follows provides detailed instructions and screen shots if needed for both **ArcMap** v10.5.1
14 and **ArcGIS Pro** v2.2.3.

15 *ArcGIS Terminology*

16 Comparable terminology between…

24 To select and set domains for a field…
25 ArcCatalog ➔Feature Class➔Properties➔Fields➔Field Properties .... [RC] Layer➔Design➔Domains
26 To manage domains…
27 ArcCatalog➔XTools Pro➔Domain Manger
28 or
29 ArcToolBox➔Data Management Tools➔Domains .... [RC] Layer➔Design➔Domains

Dudley R. Hartel
Science Delivery/Technology Coordinator   706-410-5568 cell ✉ DHARTEL@FS.FED.US   Page: 1
@UFS_CUIF ✉ LEAVESOFCHANGEWEEKLY.ORG

C:\Users\dhartel\Documents\ufst\UFST AGOL\UFST Manuals and Instructions\20180518 UFST Hosted Feature Editing Steps on Desktop - ArcMap and ArcGIS Pro (31Oct18).docx

30   ***Connecting to a Hosted Feature Layer and Editing Data***

31   ArcMap

32   There are several methods for adding a hosted feature layer to ArcMap. It can be done from the ***AGOL*** user
33   account at the hosted feature layer details page by clicking on *Open in ArcGIS Desktop*…
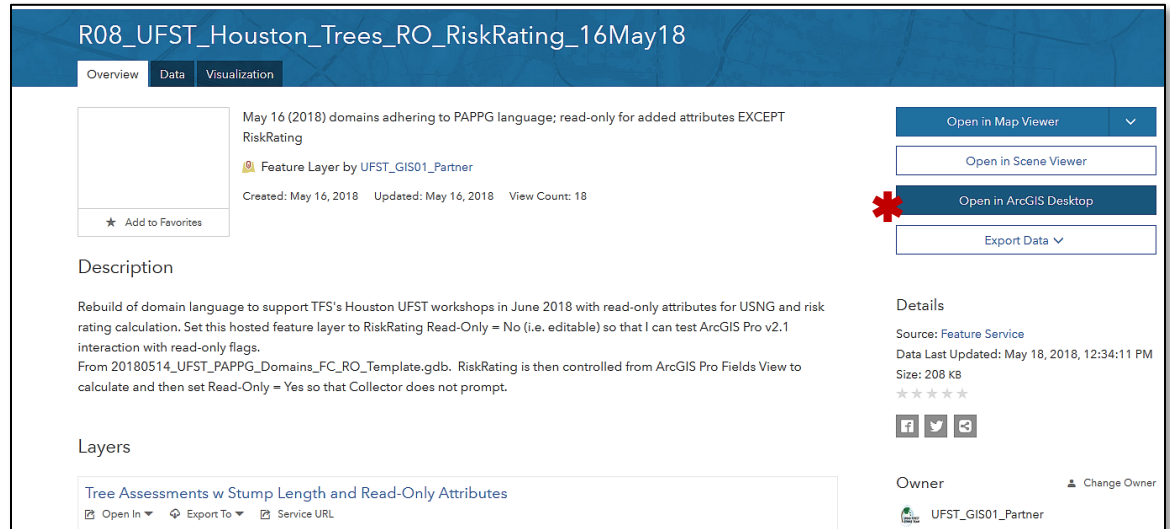

35   Figure 1: ArcGIS Online – Hosted feature Layer Details

36   Or, open ***ArcMap*** and a new or existing *Map Document*; you may be signed-in to your ***AGOL*** user account by
37   default, if not, sign-in to your user account. Then with the *Add Data* ➔ *My Hosted* Services menus select the
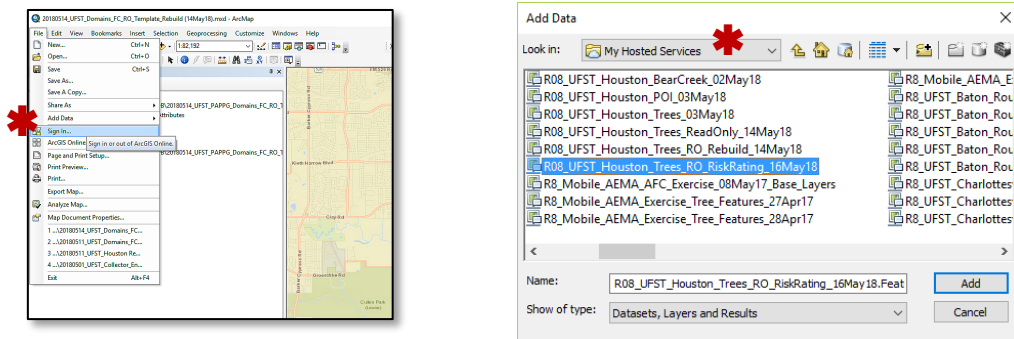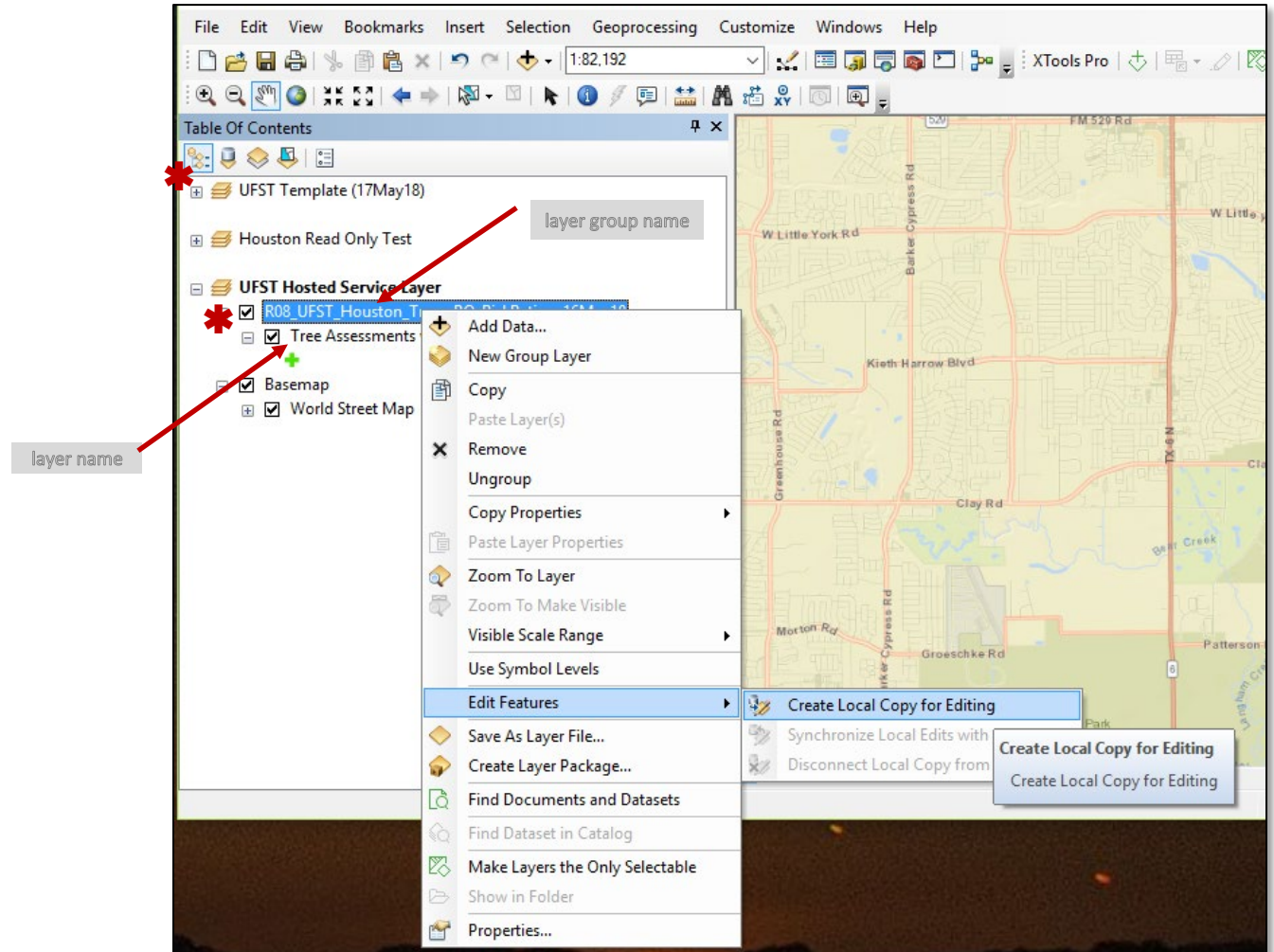38   desired hosted service…

39   Figure 2: ArcMap – AGOL Sign-In (left) and ArcMap Add Data (right)

40   The selected hosted feature layer will be added to the *Map Document Table of Contents* (TOC).

Dudley R. Hartel
Science Delivery/Technology Coordinator

706-410-5568 cell ✉ DHARTEL@FS.FED.US
@UFS_CUIF ✉ LEAVESOFCHANGEWEEKLY.ORG

v1.3

Page: 2

C:\USERS\DHARTEL\DOCUMENTS\UFST\UFST AGOL\UFST MANUALS AND INSTRUCTIONS\20180518 UFST HOSTED FEATURE EDITING STEPS ON DESKTOP - ARCMAP AND ARCGIS PRO (31OCT18).DOCX

41   Make certain you are in the *List by Drawing Order* tab not the *List by Data Source* tab in the *TOC* ribbon.

42   Hover your mouse pointer over the *TOC* ribbon symbols to see *List by Drawing Order*, *List by Data Source*,

43   *List by Visibility*, *List by Selection*, and *Options* tooltips.

44   Right-click on the hosted feature layer **group** name (not the layer name), and select the *Edit*

45   *Features*➔*Create Local Copy for Editing* menus.

46

47   Figure 3: ArcMap – Create Local Copy

Dudley R. Hartel
Science Delivery/Technology Coordinator

706-410-5568 cell ✉ DHARTEL@FS.FED.US
@UFS_CUIF ✉ LEAVESOFCHANGEWEEKLY.ORG

v1.3   Page: 3

C:\USERS\DHARTEL\DOCUMENTS\UFST\UFST AGOL\UFST MANUALS AND INSTRUCTIONS\20180518 UFST HOSTED FEATURE EDITING STEPS ON DESKTOP - ARCMAP AND ARCGIS PRO (31OCT18).DOCX

48 At this point, you can open the attribute table and use *Field Calculator*, or perform other standard feature
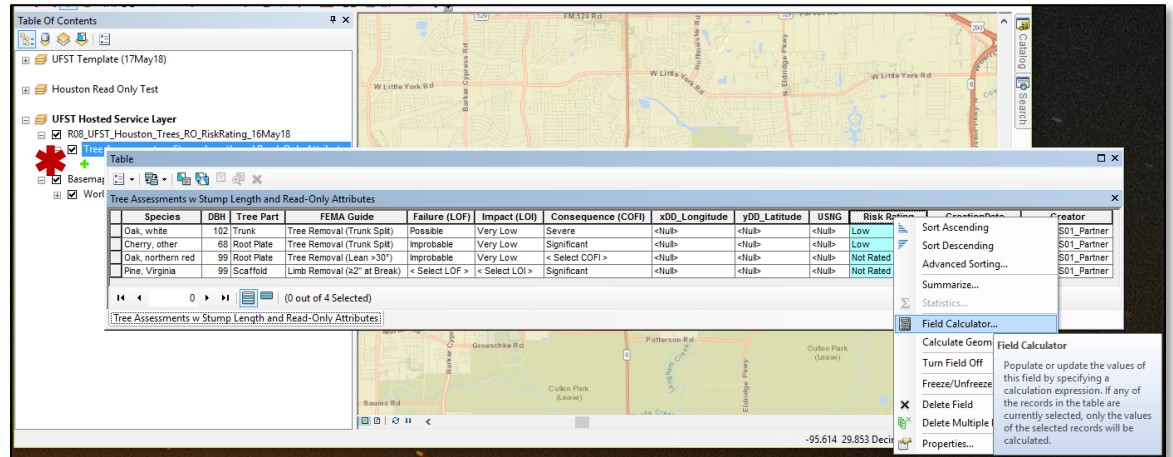49 layer editing on any *Read-Only = **No*** (i.e. editable) attributes.

50
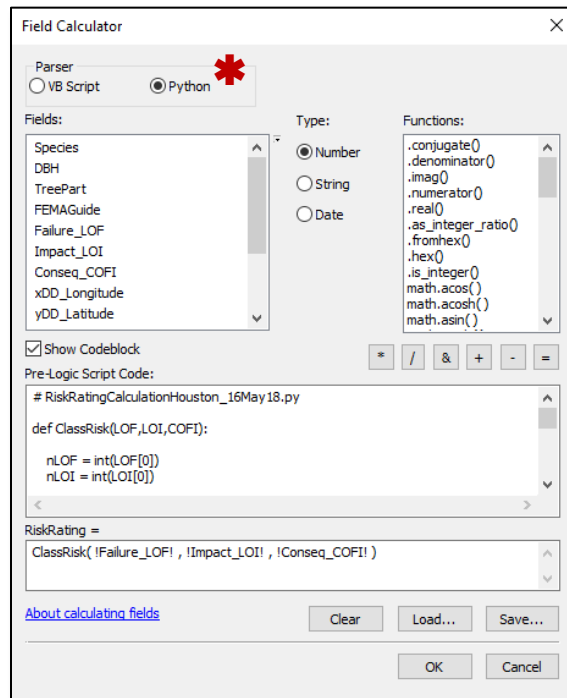51 Figure 4: ArcMap – Attribute Table with Menus

52
53 Figure 5: ArcMap –Field Calculator[1]

54 The Python script, *RiskRatingCalculationHouston_16May18.cal*, was loaded and run (i.e. OK in ArcMap) in this
55 example screen. Continue editing with tools, Python scripts and stand-alone programs.

---

[1] Field Calculator has a tendency to switch to VB Script even if you load a Python script!

Dudley R. Hartel
Science Delivery/Technology Coordinator

706-410-5568 cell DHARTEL@FS.FED.US
@UFS_CUIF LEAVESOFCHANGEWEEKLY.ORG

v1.3

Page: 4

C:\Users\dhartel\Documents\ufst\UFST AGOL\UFST Manuals and Instructions\20180518 UFST Hosted Feature Editing Steps on Desktop - ArcMap and ArcGIS Pro (31Oct18).docx

56   When all edits are complete, right-click on the hosted feature layer group name, and select the *Edit*
57   *Features➔Synchronize Local Edits* menus. Again, make certain you are in the *List by Drawing Order* tab not
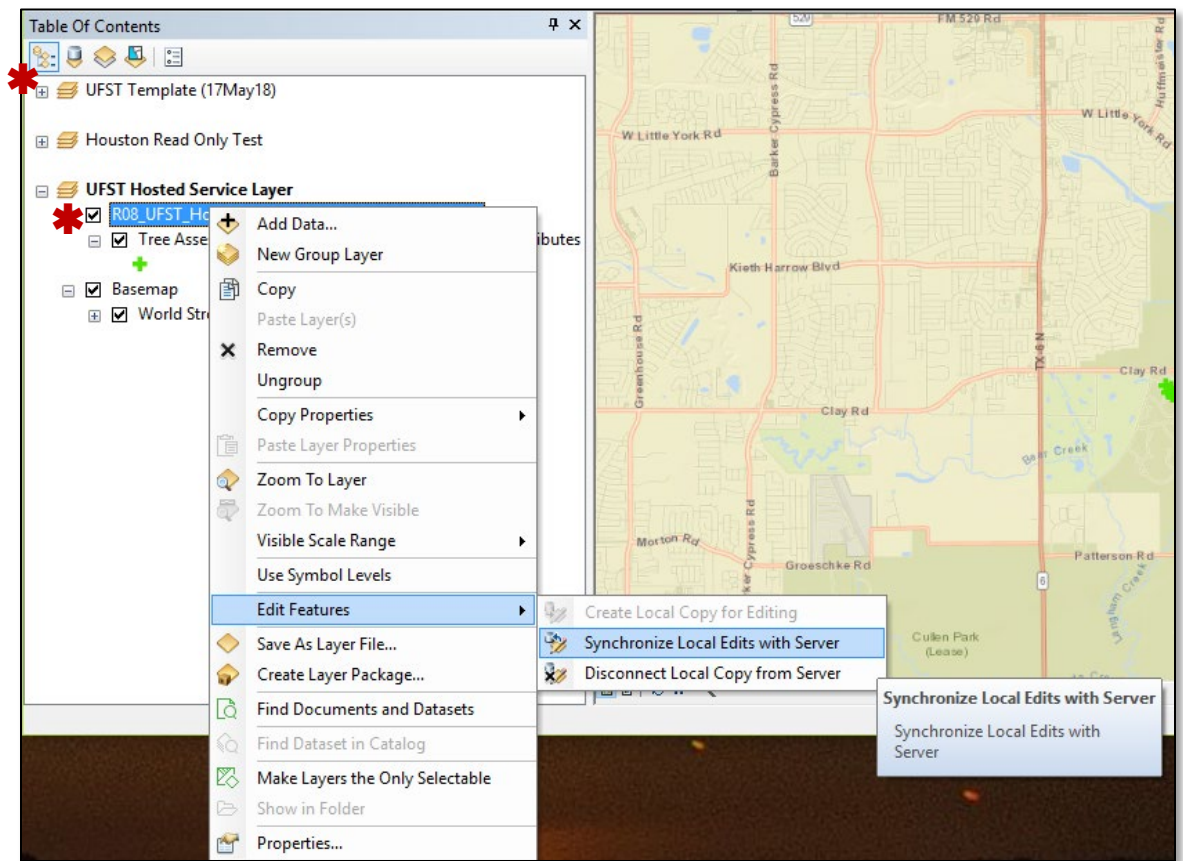58   the *List by Data Source* tab in the *TOC* ribbon.

59
60   Figure 6: ArcMap –Synchronize Local Edits

61   That's it!

62   Your local edits are available at **AGOL** and in all components (e.g. *Web Maps*, *Web Map Apps*, *Dashboards*,
63   and *Story Maps*) that use the hosted feature layer.

64   When you no longer need to synchronize edits disconnect the local copy from the server to clean up
65   metadata on the client and server.

Dudley R. Hartel
Science Delivery/Technology Coordinator

706-410-5568 cell DHARTEL@FS.FED.US
@UFS_CUIF LEAVESOFCHANGEWEEKLY.ORG

v1.3   Page: 5

C:\USERS\DHARTEL\DOCUMENTS\UFST\UFST AGOL\UFST MANUALS AND INSTRUCTIONS\20180518 UFST HOSTED FEATURE EDITING STEPS ON DESKTOP - ARCMAP AND ARCGIS PRO (31OCT18).DOCX

66   <u>ArcGIS Pro</u>

67   Open ***ArcGIS Pro*** and a new or existing *Project*; you should be signed-in to your ***AGOL*** user account by
68   default. Then with *Add Data*, select the ***AGOL*** Group, and the hosted service layer…
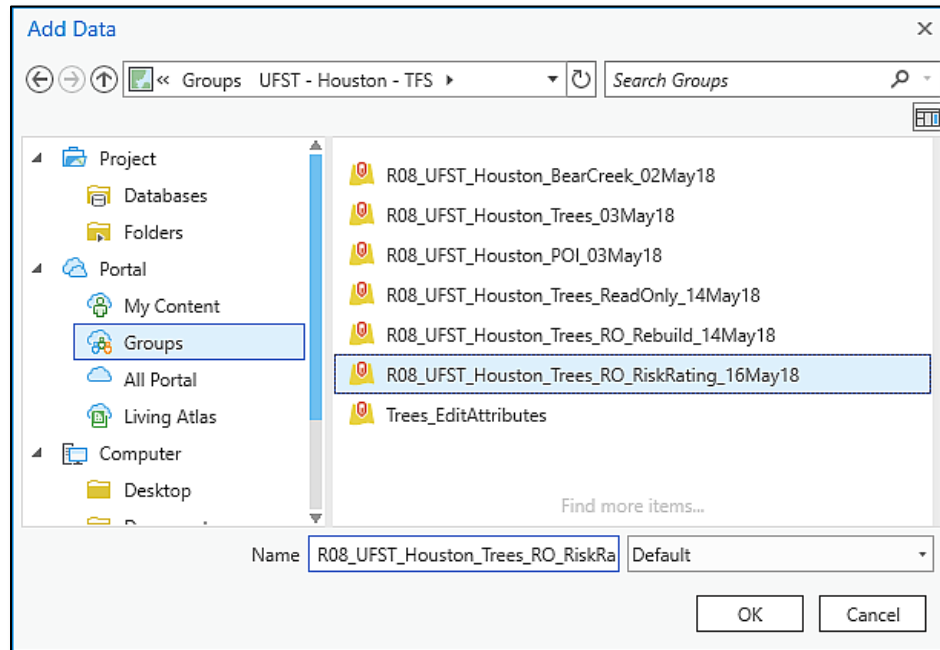

69
70   Figure 7: ArcGIS Pro –Add Data➔Groups to Select Hosted Feature Layer

71   The hosted feature layer is symbolized in the *TOC* (*List by Data Source* tab), but you can verify the hosted
72   source by right-clicking on the feature layer name (not the hosted feature ***group*** name this time) from
73   either the *List by Data Source* or the *List by Drawing Order* tabs and then selecting from the
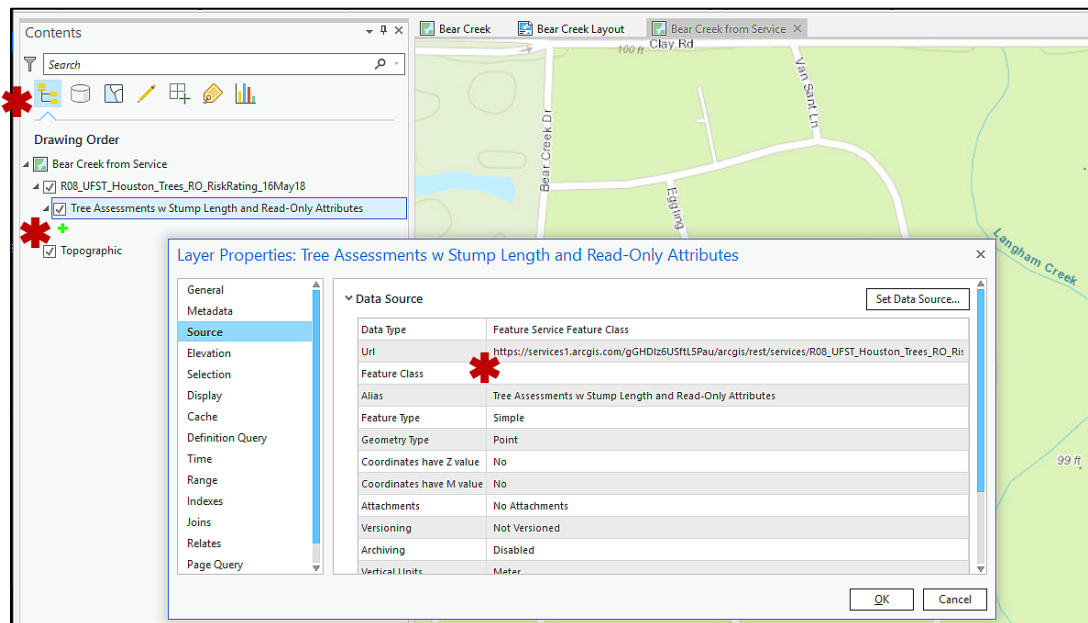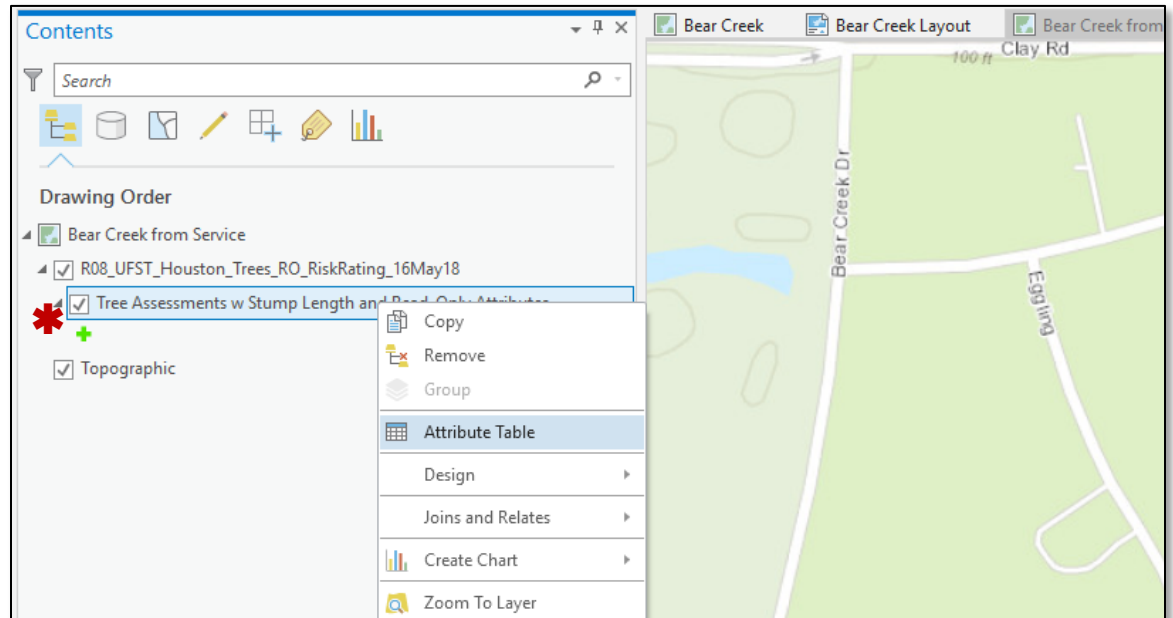74   *Properties*➔*Source* menus.

75
76   Figure 8: ArcGIS Pro –Verifying the Source of a Hosted Service Layer

77

Dudley R. Hartel
Science Delivery/Technology Coordinator

706-410-5568 cell ✉ DHARTEL@FS.FED.US
@UFS_CUIF ✉ LEAVESOFCHANGEWEEKLY.ORG

v1.3

Page: 6

78   Now right-click on the feature layer name, and select *Open Attribute Table*…
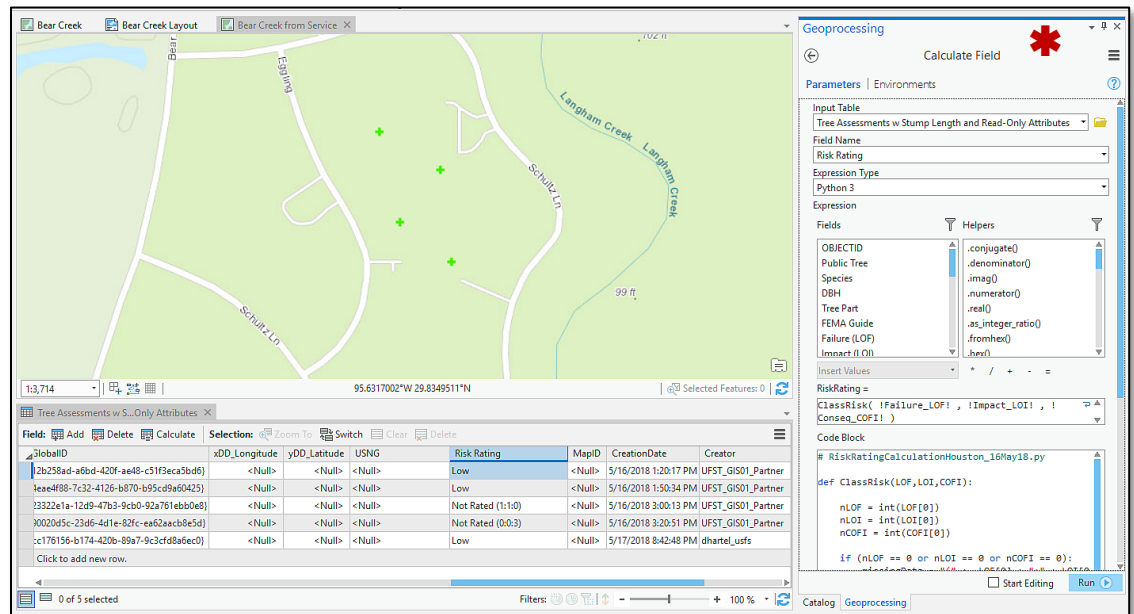

79
80   Figure 9: ArcGIS Pro –Open Attribute Table Menu from Contents

81   At this point you can perform a variety of geoprocessing tasks including *Calculate Field* and other standard
82   feature layer editing on any *Read-Only = No* (i.e. editable) attributes.

83
84   Figure 10: ArcGIS Pro –Attribute Table and Geoprocessing (Calculate Field)

85   Figure 10 illustrates the geoprocessing dialog for Calculate Field (RiskRating).

86   That's it!

87   Your local edits are available at *AGOL* and in all components (e.g. *Web Maps*, *Web Map Apps*, *Dashboards*,
88   and *Story Maps*) that use the hosted feature layer. Real-time! No local copy! No sync needed!

Dudley R. Hartel
Science Delivery/Technology Coordinator

706-410-5568 cell ✉ DHARTEL@FS.FED.US
@UFS_CUIF ✉ LEAVESOFCHANGEWEEKLY.ORG

v1.3   Page: 7

C:\USERS\DHARTEL\DOCUMENTS\UFST\UFST AGOL\UFST MANUALS AND INSTRUCTIONS\20180518 UFST HOSTED FEATURE EDITING STEPS ON DESKTOP - ARCMAP AND ARCGIS PRO (31OCT18).DOCX