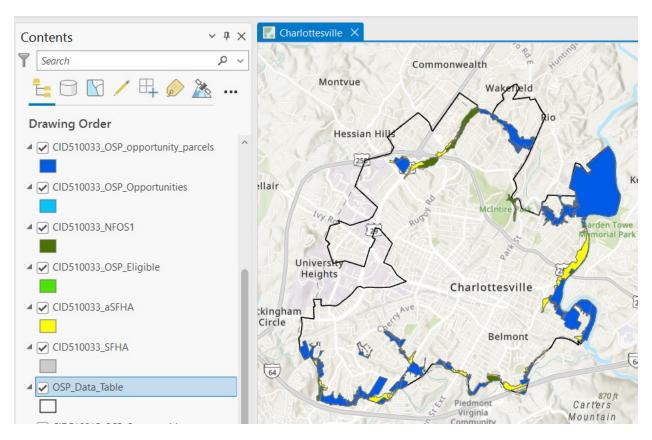
## University of Virginia – Open Space Preservation GIS Tool Output Guide

## GIS Layers

The GIS tool generates a number of layers and adds them to the ArcGIS project. The final result will look something like the figure below. The layers that are added will depend on your community. For example, if your community does not have any Special Flood Hazard Area (SFHA), then you will not get the SFHA layer, and so on. Similarly, if you have not provided a tax parcels dataset, then you will not have a Parcels of Interest layer. In total, there are 7 possible layers.

- **1. CID\_OSP\_Data\_Table:** This is a copy of the NFHL file you provide as input. The tool uses it to delineate community boundaries and will store data in its attribute table. See the Data Table section, below, for more details.
- **2. CID\_SFHA:** The communities SFHA, as defined in in the SFHA file you provide as input.
- **3.** CID\_aSFHA: The adjusted Special Flood Hazard Area. This is the regulatory floodplain in which OSP can receive CRS credit. The aSFHA is FEMA's Special Flood Hazard Area (SFHA) with federal lands, tribal lands, and bodies of water greater than 10 acres removed.
- **4. CID\_OSP Eligible:** Areas in the aSFHA that are currently protected by land use regulations or the property owner, and therefore eligible for OSP credit.
- **5. CID\_NFOS1 Eligible:** Areas in the aSFHA that are currently protected by land use regulations or the property owner and are in their natural state. These areas are eligible for extra credit through the CRS' Natural Functions Open Space 1 Element.
- **6. CID\_OSP Opportunity:** Open space areas in the aSFHA that could be eligible for OSP credit are protected by land use regulations or the property owner.
- **7.** CID\_OSP Opportunity Parcels: Tax parcels containing OSP Opportunity area.



Example output for the City of Charlottesville, Virginia

If you enter several communities, in addition to the created layers for each community, there will be master layers that are the merged layers of all the communities you have entered and contain all the data.

## Data Table

The attribute table for the layer titled, "OSP\_Data\_Table" contains numerical data from the GIS tool. Field definitions are provided in the table below.

| Field Name          | Description   |
|---------------------|---|
| SFHA_area           | Total area of the SFHA, in acres  |
| aSFHA_area          | Total area of the impact adjusted SFHA, in acres                          |
| OSP_Eligible_area   | Area of land that is currently eligible for OSP credit, in acres          |
| OSP_Eligible_credit | The number of 422a credits the community is currently eligible to receive |

| NFOS1_Eligible_area          | Area of OSP eligible land that is also eligible for |
|------------------------------|---|
|                              | NFOS1 extra credit, in acres                        |
| NFOS1_Eligible_credit        | The number of NFOS1 extra credits the community     |
|                              | is currently eligible to receive                    |
| OSP_Eligible_credit_Total    | The total number of OSP credits the community is    |
|                              | currently eligible to receive (422a + NFOS1)        |
| OSP_opportunity_area         | Area of land that is not currently eligible for OSP |
|                              | credit, but could be if protected from development, |
|                              | in acres  |
| OSP_opportunity_credit       | The number of additional 422a credits the           |
|                              | community could receive if all                      |
|                              | OSP_opportunity_area were protected from            |
|                              | development   |
| NFOS1_opportunity_credit     | The number of NFOS1 extra credits the community     |
|                              | could receive if all OSP areas are credited under   |
|                              | 422a and restored to their natural state            |
| NFOS2_opportunity_credit     | The number of NFOS2 extra credits the community     |
|                              | could receive if all OSP areas are credited under   |
|                              | 422a and designated in a natural floodplain         |
|                              | protection plan                                     |
| DR_opportunity_credit        | The number of Deed Restriction extra credits the    |
|                              | community could receive if all OSP areas are        |
|                              | credited under 422a and protected by deed           |
|                              | restrictions  |
| OSP_opportunity_credit_Total | The number of credits the community would be        |
|                              | eligible to receive if all OSP_opportunity_area are |
|                              | credited under 422a, with extra credits of NFOS1,   |
|                              | NFOS2 and DR  |
| •                            |   |

The dataset metadata will provide comprehensive information about the various fields in the generated layers, offering valuable context and guidance for interpreting their meaning. Please refer to the original dataset's metadata, available through the link provided below, for interpreting other fields in the generated layers:

- Metadata of FEMA's NFHL
- Metadata of National Hydrography dataset
- Metadata of Protected Areas Database