

DATUM INFORMATION

The projection used in the preparation of this map was the North Carolina State Plane (FIPSZONE 3200). The horizontal datum was the North American Datum of 1983, GRS80 ellipsoid. Differences in datum, ellipsoid, projection, or Universal Transverse Mercator zones used in the production of FIRMS for adjacent jurisdictions may result in slight positional differences in map features across jurisdictional boundaries. These differences do not affect the accuracy of this FIRM. All coordinates on this map are in U.S. Survey Feet, where 1 U.S. Survey Foot = 1200/9937 Meters.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988 (NAVD 88). These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. An average offset between NAVD 88 and the National Geodetic Vertical Datum of 1929 (NGVD 29) has been computed for each North Carolina county. This offset was then applied to the NGVD 29 flood elevations that were revised during the creation of this statewide format FIRM. The offsets for each county shown in this FIRM panel are shown in the vertical datum offset table below. Where a county boundary and a flooding source with unrevised NGVD 29 flood elevations are coincident, an individual offset has been calculated and applied during the creation of this statewide format FIRM. See Section 6.1 of the accompanying Flood Insurance Study report to obtain further information on the conversion of elevations between NAVD 88 and NGVD 29. To obtain current elevation, description, and/or location information for bench marks shown on the map, please contact the North Carolina Geodetic Survey at the address shown below. You may also contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

North Carolina Geodetic Survey
121 West Jones Street
Raleigh, NC 27601
(919) 733-0836
<http://www.ncgs.state.nc.us>

County	Vertical Datum Offset (ft)
MECKLENBURG	-0.74

Example: NAVD 88 = NGVD 29 + (-0.74)

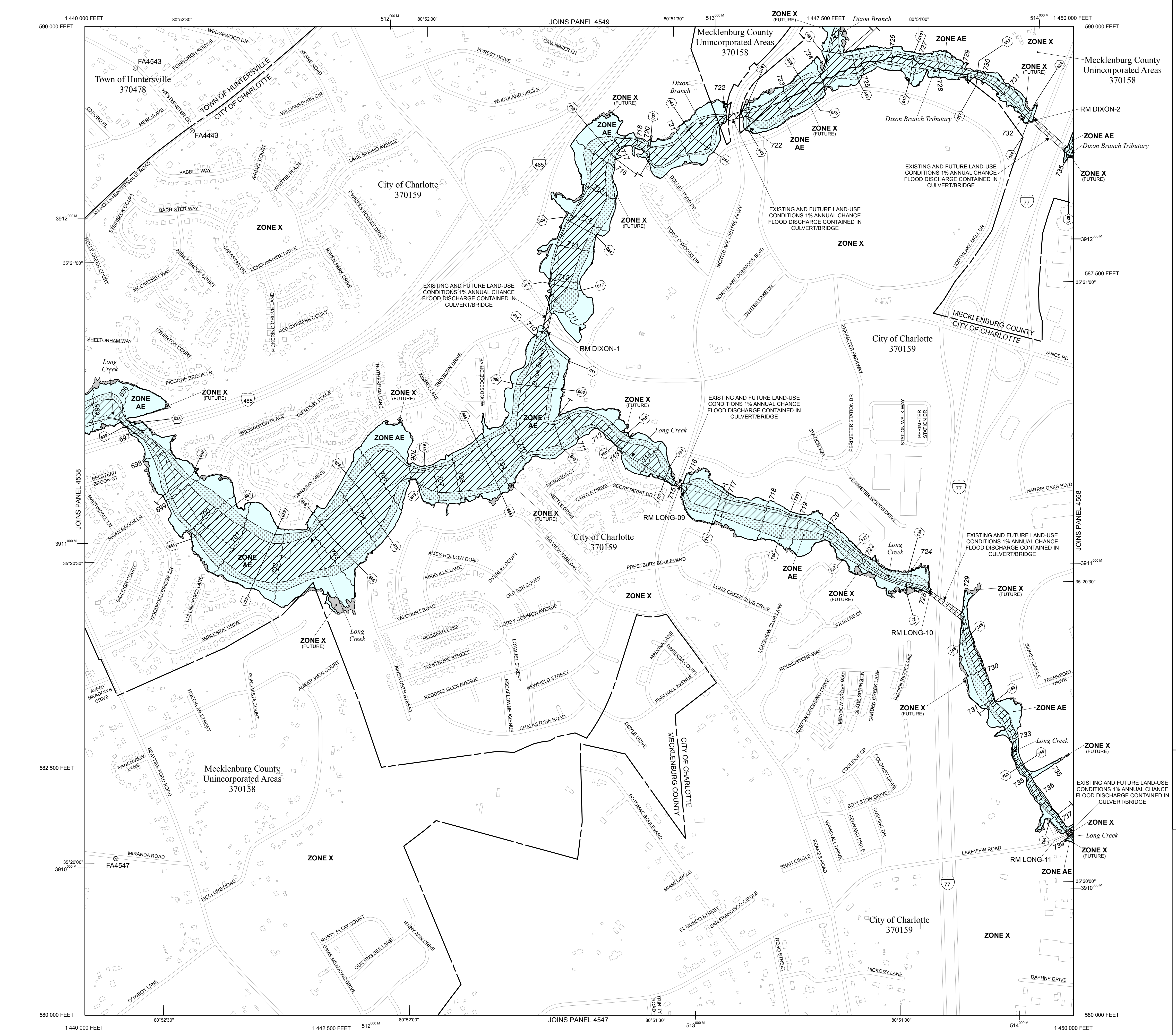
All streams listed in the Flood Hazard Data Table below were studied by detailed methods using field survey. Other flood hazard data shown on this map may have been derived using either a coastal analysis or limited detailed riverine analysis. More information on the flooding sources studied by these analyses is contained in the Flood Insurance Study report.

Cross Section	Stream Station	Flood Discharge (cfs)		1% Annual Chance (100-year) Water Surface Elevation (feet MVD/88)		Flowtype	Community Encroachment Line Distance in Feet from Center of Stream (Encroachment Boundary Crossing Downstream)
		Existing Land Use Condition	Future Land Use Condition	Existing Land Use Condition	Future Land Use Condition		
DIXON BRANCH							
006	599	1,292	2,240	710.8	711.2	208/71	259/121
011	1,084	1,292	2,240	702.9	712.7	25/225	87/76
017	1,678	1,292	2,240	711.9	712.5	139/31	232/31
024	2,359	1,292	2,240	713.8	714.2	235/23	282/49
032	3,090	1,653	2,098	716.4	716.8	60/78	102/153
037	3,493	1,653	2,098	720.2	721.1	71/47	93/57
043	4,265	1,653	2,098	721.3	722.1	224/59	258/87
049	4,971	1,653	2,098	721.9	722.6	44/54	44/54
055	5,544	1,653	2,098	723.6	724.3	88/105	143/140
061	6,064	585	684	724.7	725.3	87/17	106/38
1 feet above confluence with Long Creek. *Elevation includes backwater effects.							
DIXON BRANCH TRIBUTARY							
003	146	1,125	1,337	728.7	729.0	61/75	129/125
010	979	1,125	1,337	728.8	727.2	91/15	151/28
017	1,687	949	1,159	728.7	730.1	16/33	16/38
024	2,397	949	1,159	730.1	728.6	24/36	24/36
029	2,935	949	1,159	735.4	736.4	27/36	26/37
1 feet above confluence with Dixon Branch.							
LONG CREEK							
638	63,278	3,843	4,626	696.5	697.3	29/24	35/30
646	64,596	3,843	4,626	698.8	699.2	85/121	130/173
651	65,128	3,843	4,626	700.2	701.8	86/233	135/266
659	65,864	3,843	4,626	701.7	702.3	285/140	316/236
666	66,647	3,329	4,038	703.3	703.8	421/20	522/76
672	67,123	3,329	4,038	706.8	707.2	301/225	367/318
679	67,863	3,329	4,038	706.5	706.3	134/22	154/44
685	68,502	3,329	4,038	708.8	709.4	271/137	343/187
693	69,284	1,509	1,767	710.1	710.4	168/146	213/76
700	70,048	1,509	1,767	712.7	713.1	21/39	21/117
707	70,657	1,509	1,767	714.6	714.8	33/23	32/97
713	71,090	1,381	1,649	715.9	715.5	115/21	62/77
720	71,888	1,381	1,649	718.6	719.0	105/19	236/34
727	72,729	1,281	1,649	721.4	721.8	26/18	30/43
734	73,931	1,281	1,649	723.9	724.4	17/12	29/93
743	74,277	1,260	1,522	725.1	730.4	27/27	75/22
750	75,015	1,260	1,522	731.1	731.8	23/19	65/19
758	75,281	1,260	1,522	734.4	735.0	20/18	34/18
764	76,383	887	1,081	736.7	737.2	20/15	37/15
1 feet above confluence with Catawba River. *Elevation includes backwater effects.							



This digital Flood Insurance Rate Map (FIRM) was produced through a unique cooperative partnership between Charlotte-Mecklenburg, the State of North Carolina, the Federal Emergency Management Agency (FEMA), and the U.S. Army Corps of Engineers. Charlotte-Mecklenburg Storm Water Services (CMSWS) has developed a long term approach of floodplain management to decrease the costs associated with flooding. This is demonstrated by CMSWS commitment to map floodplain areas at the local level. As a part of this effort, CMSWS has joined in a Cooperating Technical Community agreement with FEMA and a partnership with the NCFMP to produce and maintain this digital FIRM.

www.ncfloodmaps.com
<http://stormwater.charmeck.org>



NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles, Floodway Data, Limited Detailed Flood Hazard Data, and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Boundaries of regulatory floodways shown on the FIRM for flooding sources studied by detailed methods were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data for flooding sources studied by detailed methods as well as non-encroachment widths for flooding sources studied by limited detailed methods are provided in the Flood Insurance Study (FIS) report for this jurisdiction. The FIS report also provides instructions for determining a floodway using non-encroachment widths for flooding sources studied by limited detailed methods.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 4.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures in this jurisdiction.

Base map information and geospatial data used to develop this FIRM were obtained from various organizations, including the participating local communities, state and federal agencies, and/or other sources. The primary base for this FIRM is planimetric base map information obtained from and maintained by Mecklenburg County GIS Department and is current as of 2011. Information and geospatial data supplied by the local community(ies) that met FEMA base map specifications were considered the preferred source for development of the base map. See geospatial metadata for the associated digital FIRM for additional information about base map preparation.

Base map features shown on this map, such as corporate limits, are based on the most up-to-date data available at the time of publication. Changes in the corporate limits may have occurred since this map was published. Map users should consult the appropriate community official or website to verify current conditions of jurisdictional boundaries and base map features. This map may contain roads that were not considered in the hydraulic analysis of streams where no new hydraulic model was created during the production of this statewide format FIRM.

This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels, community map repository addresses, and a listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

If you have questions about this map, or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/business/nfp>.

An accompanying Flood Insurance Study report, Letter of Map Revision (LOMR) or Letter of Map Amendment (LOMA) revising portions of this panel, and digital versions of this FIRM may be available. Visit the North Carolina Floodplain Mapping Program website at <http://www.ncfloodmaps.com>, or contact the FEMA Map Information of Charge (FMIC) at 1-877-FEMA MAP (1-877-336-2627) or its website at http://www.floodmaps.fema.gov/fhm/fmx_main.html for information on all related products associated with this FIRM.

For community map revision history prior to statewide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent, the North Carolina Division of Emergency Management or the National Flood Insurance Program at the following phone numbers or websites:

NC Division of Emergency Management (919) 714-8000
<http://www.ncemergency.com>

Charlotte-Mecklenburg Storm Water Services (704) 336-3734
<http://stormwater.charmeck.org>

National Flood Insurance Program 1-800-638-6620
<http://www.fema.gov/business/nfp/>

Federal Emergency Management Agency

LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equalled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A
No Base Flood Elevation determined.

ZONE AE
Base Flood Elevations determined.

ZONE AH
Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AO
Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

ZONE AR
Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

ZONE A99
Areas to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

ZONE VE
Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

COMMUNITY ENCROACHMENT AREAS (Mecklenburg County)

OTHER FLOOD AREAS

ZONE X
Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER FLOOD AREAS (Mecklenburg County)

ZONE X
Areas of future conditions 1% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE D
Areas determined to be outside the 0.2% annual chance floodplain; areas outside future conditions 1% annual chance floodplain.

ZONE X
Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary (Mecklenburg County)
- 1% annual chance floodplain boundary (Mecklenburg County)
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Community encroachment boundary (Mecklenburg County)
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.

513
(EL 987)
Base Flood Elevation line and value; elevation in feet*
Base Flood Elevation value where uniform within zone; elevation in feet*
* Referenced to the North American Vertical Datum of 1988

112
Cross section line

23
Transect line

97°07'30", 32°22'30"
Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)

4275'00"
1 477 500 FEET
BM5510 x
BM5510 x
BM5510 x
RM LSUG14 x
M1.5

GRID NORTH
MAP SCALE 1" = 500' (1 : 6,000)

250 0 250 500 750 1,000
FEET
150 0 150
METERS

PANEL 4548K

FIRM
FLOOD INSURANCE RATE MAP
NORTH CAROLINA

PANEL 4548
(SEE LOCATOR DIAGRAM OR MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	CID No.	PANEL	SUFFIX
CHARLOTTE, CITY OF	370159	4548	K
HUNTERSVILLE, TOWN OF	370478	4548	K
MECKLENBURG COUNTY	370158	4548	K

MAP REVISED
SEPTEMBER 2, 2015

MAP NUMBER
3710454800K

Notice to User: The Map Number shown below should be used when planning map orders, the Community Number shown above should be used on insurance applications for the subject community.

For community map revision history prior to statewide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

NC Division of Emergency Management (919) 714-8000
<http://www.ncemergency.com>

Charlotte-Mecklenburg Storm Water Services (704) 336-3734
<http://stormwater.charmeck.org>

National Flood Insurance Program 1-800-638-6620
<http://www.fema.gov/business/nfp/>

Federal Emergency Management Agency