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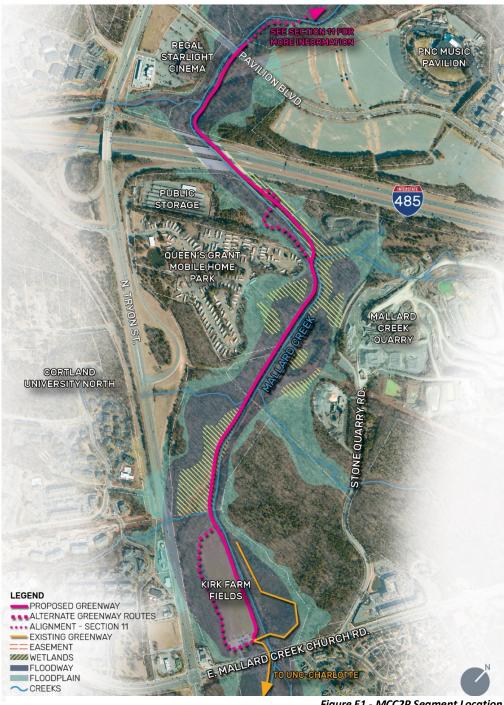


Figure E1 - MCC2P Segment Location



## **EXECUTIVE SUMMARY**

The City of Charlotte and its partners undertook this planning study to identify and evaluate alignment alternatives for the Mallard Creek Church Rd to Pavilion Blvd (MCC2P) segment of the Cross Charlotte Trail (XCLT). The segment will extend the existing Mallard Creek Greenway north from Kirk Farm Fields along the creek to Pavilion Blvd. From there, another segment of the planned greenway will extend to the county line. The MCC2P trail segment will connect users of alternative modes of transportation from surrounding neighborhoods to an existing network of greenways to the south providing access to parks, school, transit facilities, restaurants and retail.

The study recommends a design and construction project consisting of:

- Approximately 1.44 miles of 12-ft-wide mainline trail with 5-ft grass shoulders, generally running north/south between Mallard Creek Church Rd to Pavilion Blvd.
- One bridge necessary to carry the trail over Mallard Creek.
- Boardwalks to cross sensitive wetlands and jurisdictional features.
- Areas for context sensitive placemaking and user amenities.

The probable total project cost for this segment of the XCLT is in the range of \$11.79M. Please note, this is an early planning level estimate only, and will change upon the completion of more detailed survey and design.

## 1. INTRODUCTION

#### PROJECT BACKGROUND & OVERVIEW

The City of Charlotte Community Investment Plan (CIP) is a program developed to meet the needs of a growing Charlotte community. The CIP, originally approved in 2013, consists of a wide variety of projects to be planned, designed and implemented over seven years. The CIP's objectives include increasing access and availability of transportation choices for citizens by means of investing in streets, transit, and bicycle and pedestrian facilities. The XCLT is one of the premier projects within the CIP program.

The XCLT is a partnership between the City of Charlotte and Mecklenburg County to create a continuous 26-mile trail facility that will allow residents and visitors to travel from one end of the County to the other. The XCLT Master Plan was established to identify a primary alignment for the XCLT and develop design guidelines for the trail.

One of the segments outlined in the XCLT Master Plan connects Mallard Creek Church Rd to Pavilion Blvd through wooded terrain and underneath Interstate 485. This natural area is divided by Mallard Creek, its tributaries and other natural terrain features. The XCLT Master Plan identifies the trail from Mallard Creek Church Rd to Pavilion Blvd (MCC2P) as a natural wooded segment that runs parallel to Mallard Creek, to provide a nature-filled user experience.



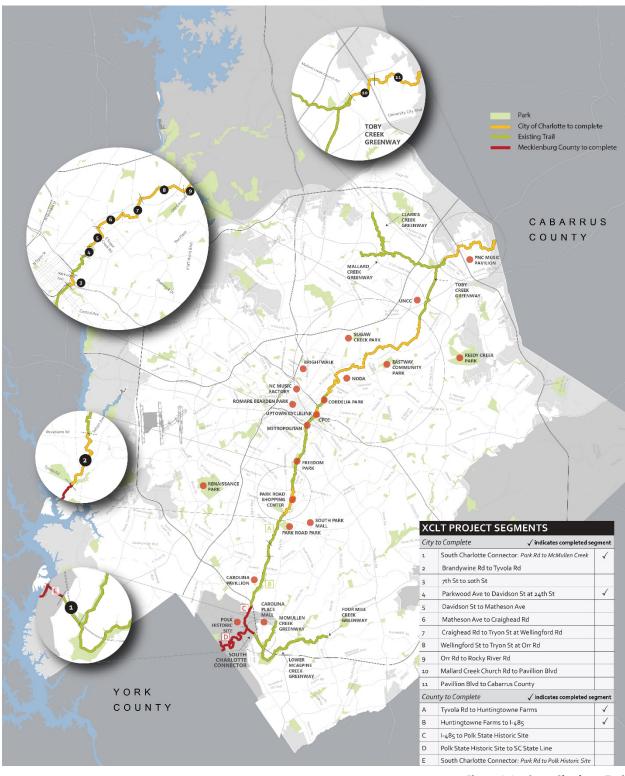


Figure 1.1 – Cross Charlotte Trail



#### **SCOPE AND OBJECTIVES**

The purpose of this planning report is to identify possible trail alignments, evaluate impacts, and set the stage for the design and construction of a trail that meets the following objectives:



Figure 1.2 - Project Objectives

"When completed, residents will be able to travel – walking, running or cycling – continuously and more comfortably and safely across Charlotte, while connecting to many treasured places along the way."



#### **DESIGN CRITERIA**

The design of the MCC2P segment will be in accordance with national guidance on greenway, bikeway, and pedestrian facilities design. Several reference sources were reviewed in the development and selection of design criteria. The XCLT Master Plan recommends a 16-foot width for a shared-use path facility, with a minimum width of 12-feet where necessary/appropriate. The project team determined that a 12-foot wide shared-use path would be the typical width for the MCC2P segment of the XCLT for two primary reasons.

The first primary reason is that it is anticipated the ownership and maintenance of this segment of the XCLT will be turned over to Mecklenburg County after it is constructed. A 12-foot-wide greenway is consistent with the County's current standards for constructing and maintaining greenways in this context. The second primary reason has to do with the adjacent land use context. Unlike other segments of the XCLT, there will be no buildings fronting directly onto the MCC2P segment of trail. In situations where active land uses are set up close to the trail corridor a 16-foot (or wider) trail is a necessity to support ped/bike transportation, recreational use, and spillover from adjacent buildings. The MCC2P segment of trail is set within a strictly natural setting along a stream corridor, and 12-feet is anticipated to be sufficient to support trail users. A third, yet somewhat less significant consideration, is that a 12-foot-wide trail has less potential impact on the riparian environment than a 16-foot-wide trail. Trail design criteria and reference sources are shown in the table below.

Design Criteria	Selected Criteria	Design Reference
Design Speed	20 mph	AASHTO Guide for the Development
		of Bicycle Facilities (2012)
Min. Horizontal Curve Radius	74 ft (20-degree Lean Angle)	AASHTO Guide for the Development
		of Bicycle Facilities (2012)
Min. Trail Width	16 ft (Preferred) 12 ft (where	XCLT Master Plan (2016)
	necessary/appropriate)	
Shoulder Width	5 ft (Preferred) 2 ft (Min.)	XCLT Master Plan (2016)
Min Profile Grade	0.5%	AASHTO Guide for the Development
		of Bicycle Facilities (2012)
Max Profile Grade	4.5% or if Along Road ≤	Charlotte DOT Preference
	Adjacent Roadway Grade	
Max Pavement Cross Slope	1.5%	Charlotte DOT Preference
Max Shoulder Cross Slope	16.67% (1V:6H)	AASHTO Guide for the Development
		of Bicycle Facilities (2012)
Min Horizontal Clear Width	Trail Width + 2 ft on Each Side	AASHTO Guide for the Development
		of Bicycle Facilities (2012)
Min Vertical Clearance	10 ft (Preferred) 8 ft (Min in	AASHTO Guide for the Development
(above trail)	Constrained Areas)	of Bicycle Facilities (2012)
Protruding Objects	No Horizontal Protrusion	AASHTO Guide for the Development
		of Bicycle Facilities (2012)

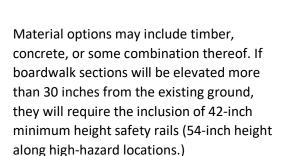
Table 1.1 – Design Criteria/Preference



Based on the selected design criteria, area context, and design constraints, five typical sections were considered along the MCC2P trail segment as follows:

After design constraints were evaluated, the project team determined the majority of the MCC2P trail segment will most likely consist of 12-ft-wide trail with 5-ft grassed shoulders.

In locations along the trail where design constraints require the use of an elevated or low-impact trail, a bridge or boardwalk structure (16 ft clear width) will be used. Boardwalk materials may vary based on design, maintenance, or cost constraints.



In locations that may use a culvert or tunnel to cross under a road, a 16-ft wide structure will be used. The vertical clearance will be a minimum of 10-ft for bicyclist safety.

In areas where space allows, 5-ft shoulders will be used. This should mainly be used in the open areas where there are limited impacts to terrain and wooded areas.

In constrained areas, a 12-ft-wide shareduse trail section with 2-ft grassed shoulders may be utilized.



Figure 1.3 - Asphalt Shared Use Path



Figure 1.4 - Elevated Boardwalk Section



Figure 1.5 – Concrete Shared Use Path



#### **TRAIL USERS**

The trail will serve a variety of users, including pedestrians, cyclists, scooter riders, skateboarders, rollerbladers, wheelchair users, and electronic mobility scooter users. Members of these various user groups will walk, run, ride, and roll along the trail facility for both recreational and transportation purposes. The trail is intended to accommodate the needs of users of all ages and abilities. The XCLT will serve as a primary route for active transportation commuters located in neighborhoods close to UNC Charlotte and other to other regional employment centers like Uptown. Transit riders will also use the XCLT as a first-mile, last-mile connection to CATS bus and light rail corridors.

#### **TRAIL ACCESS**

In addition to becoming a destination in and of itself, the XCLT will be a key component in the region's overall transportation network. Ensuring access that is both easy and intuitive, and that will connect trail users with their desired destinations, will be key in reaching maximum trail usership volumes. The inclusion of a comprehensive wayfinding system both to and from the trail and key destinations will promote connectivity and help leverage the full potential of the City's capital investment in the trail.

Figure 1.7 on page 10 shows the relationship between the MCC2P segment and the network of nearby facilities including CATS bus stops, rail stops and future greenway connections.

The LYNX Blue Line light rail terminates at the UNC Charlotte Campus. The MCC2P segment connects to the existing Mallard Creek Greenway (MCG). Trail users will be able to







Figure 1.6 - Potential Trail User Groups

easily access the light rail via the MCG which crosses under the light rail tracks about 800 feet from the



UNC Charlotte Main Station. In addition, trail users could access the JW Clay Blvd Station (LYNX Blue Line) via bike lanes on Tryon Street, which can be safely accessed from the Mallard Creek Greenway.

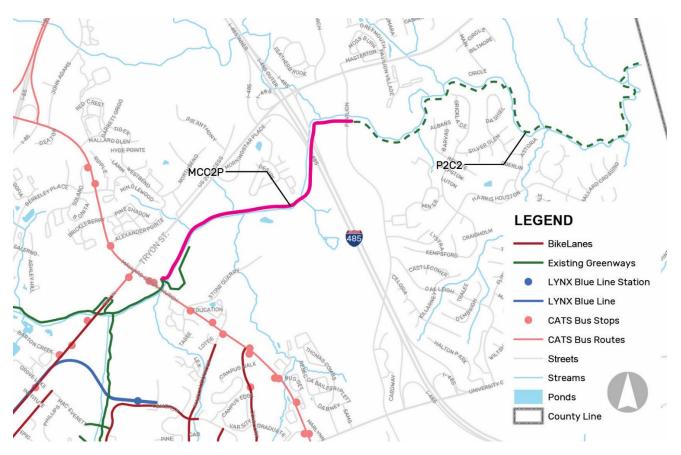


Figure 1.7 – Transportation Network in Surrounding Area

## **PLACEMAKING**

Placemaking is an important aspect in the overall character and user experience of the XCLT. For the MCC2P trail segment, context-sensitive placemaking efforts should be primarily focused on highlighting the natural environment and local wildlife. Specific opportunities for placemaking and public art are discussed further in Section 2.



## 2. PLANNING CONSIDERATIONS & ALTERNATIVES DEVELOPMENT

## **ADJOINING XCLT PROJECTS**

The MCC2P trail segment is located between the future *Pavilion Blvd to Cabarrus County (P2C2)* segment and the existing *Mallard/Toby/Clarks Creek Greenway* system to the south.

## **Pavilion Blvd to Cabarrus County (P2C2)**

The P2C2 segment will connect to the MCC2P segment at Pavilion Blvd, North of I-485. The proposed P2C2 alignment will head East, running parallel with Mallard Creek and navigating between various residential and commercial properties. The trail will ultimately terminate at the Mecklenburg and Cabarrus County lines.

## **Mallard Creek & Clarks Creek Greenways**

This is the longest greenway segment of the XCLT system, stretching more than 7.40 miles-and enjoyed by many user groups. The western end of this system features a paved trail through many university area neighborhoods. The eastern end includes a paved trail passing through mature floodplain forest, under I-85 and Highway 29, and on to the Kirk Farm soccer fields near UNC-Charlotte. In the middle is a gravel trail through University Research Park that Mecklenburg County is planning to upgrade to an asphalt-paved trail in the near future. Near Kirk Farm Fields, this system connects to Toby Creek Greenway, where it extends for an additional 2.64 miles through the UNC Charlotte campus to W. Rocky River Rd. Nearby amenities include Blue Line Light Rail stations, UNC-Charlotte, Toby Creek Greenway, Kirk Farm Fields Community Park, University Research Park, Mallard Creek Elementary, Town Center Plaza, and University Regional Library.

#### **Toby Creek Greenway**

This greenway extends from Mallard Creek Greenway to University City Boulevard (NC Hwy 49), completing an important connection to and through the UNC Charlotte campus. The addition of Toby Creek Greenway to the Clarks-Mallard Greenway system provides a total of 9 miles of greenway connectivity. A greenway connector trail has also been provided from Toby Creek Greenway to North Tryon Street through the campus woods of the Preserve. This connector allows greenway users to reach additional retail and dining opportunities. Active transportation commuters frequently use this corridor for biking and walking across campus.



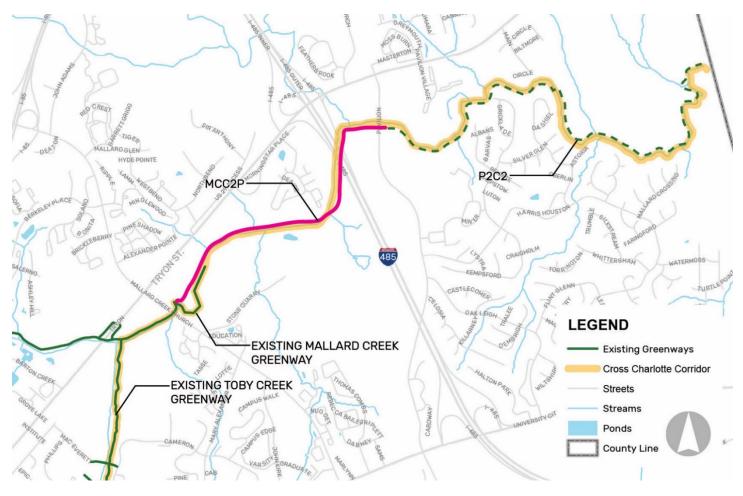


Figure 2.1 – MCC2P/XCLT Greenway Connections



#### **EXISTING & FUTURE PLANS**

Existing and future plans were thoroughly reviewed to identify opportunities and constraints and to inform the MCC2P segment planning process. Consideration was given to the City's draft Trail-Oriented Development Guidelines, which center around four major goals for the XCLT:

- 1. Be compatible with development that is designed with "eyes on the trail" making the trail a safe and enjoyable experience.
- 2. Be accessible to adjacent communities and visitors of all mobility levels, keep them separated from vehicle traffic, and provide convenient access to neighborhoods and businesses.
- 3. Comfortably accommodate bicycle and pedestrian travel by providing an appropriate trail width in context with the surrounding land uses.
- 4. Be a signature trail with a variety of places and spaces that provide visual interest along the route.



Figure 2.2 – Multiple trail users enjoy a greenway in Charlotte



Figure 2.3 – Art integrated into Raleigh Greenway



Figure 2.4 - Dining Along the Atlanta Beltline



Figure 2.5 - LYNX Blue Line and Rail Trail



## **Charlotte WALKS (2017)**

Charlotte WALKS (the City's first comprehensive Pedestrian Plan) is based on three key themes that Charlotte's pedestrian facilities be safe, useful, and inviting. One of the key ideas posed by the plan is that pedestrian infrastructure should support car-light lifestyles, a rising trend partially due to demographic shifts and increased density as citizens move closer to the City's urban core.

The "Access to Parks & Greenways" section of the WALKS plan outlays that trails are more than transportation, and that Charlotte residents indicate that greenways are the third most important walking destination after grocery stores and restaurants. Action Items set forth in the WALKS plan support improving pedestrian connections to greenways and prioritizing projects based on proximity to parks and greenways.

#### **Charlotte BIKES (2017)**

Charlotte BIKES, an update to the City's 2008 Bicycle Plan, is the City's blueprint for becoming a bicycle-friendly city. The plan is organized around six "E"s — equity, engineering, education, encouragement, enforcement, and evaluation.

The XCLT is a prime example of what Charlotte wants as an "All Ages and Abilities" trail facility. Strategies outlined in each of the six "E" sections of the BIKES plan will help support the XCLT's success. Strategy EP-8 in the "evaluation/ planning" section specifically sets forth the City's commitment to "implement the alignment of the Cross-Charlotte Trail" by 2025.

## **Other CIP Programs**

The City of Charlotte CIP also features the Northeast Corridor Infrastructure (NECI) program. The NECI program invests in infrastructure to improve access to the Charlotte Area Transportation System (CATS) Blue Line Extension light rail project.

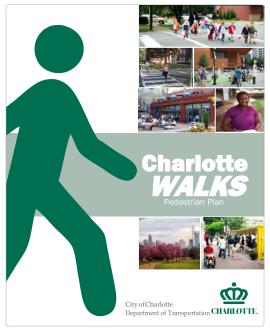


Figure 2.6 - Charlotte Walks Cover

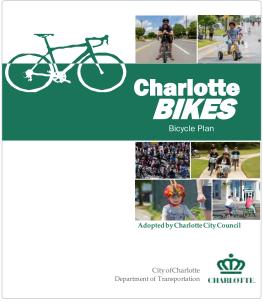


Figure 2.7 - Charlotte Bikes Cover



#### **SURROUNDING AREA PROJECTS**

## **Northeast Corridor Infrastructure Program (NECI)**

## JW Clay Blvd Streetscape

This project will add sidewalks and separated bike lanes to parts of J.W. Clay Boulevard. The concept plan includes a curb and gutter section of four lane divided roadway with left-turn lanes at intersections. Bicyclists will be accommodated via a combination of a 12-foot cycle track, a 10-foot multiuse path, or in-street buffered bike lanes. Pedestrians will be accommodated via 8-foot sidewalks behind planting strips that include street trees. The project will provide connectivity to the Barton Creek Greenway.



Figure 2.8 - JW Clay Blvd Streetscape

## **NCDOT State Transportation Improvement Program (STIP)**

The NCDOT STIP is a 10-year State and Federal-mandated plan that identifies the construction funding for and scheduling of transportation projects. Below are a few projects nearby the MCC2P segment:

## Barton Creek Greenway

A one-mile greenway currently in construction will connect the Mallard Creek Greenway to JW Clay Blvd. (described above). This greenway will connect the University of North Carolina at Charlotte (UNCC), University Place and the JW Clay Blvd light rail station to the Mallard/Toby/Clark's Creek Greenway system and the XCLT.

#### I-485 Pavement Rehabilitation

This project will improve the pavement of I-485 between I-85 and Rocky River Rd. (Under Construction) - NCDOT STIP (I 5798).

## Toby Creek Greenway Phase II

This project will extend Toby Creek Greenway south from University City Blvd. to Rockland Dr. (Complete) and from Rockland Dr. to Blue Rock Dr. (Under Construction) - NCDOT STIP (C 5225).

#### Mallard Creek Church Rd Multi-Use Trail

This project will construct a multi-use trail on south side of Mallard Creek Church Rd from Mallard Creek Rd. to Claude Freeman Dr. - NCDOT STIP (EB 5832). It is a jointly funded project through the City of Charlotte Pedestrian Program and the NCDOT. The project will create a new, all-ages-and-abilities pedestrian and bicycle facility that connects to existing facilities within the University Research Park.



#### **REAL ESTATE & REZONING PETITIONS**

#### **County Owned Parcels**

In preparation for the construction of various greenways and the Cross-Charlotte Trail, the county acquired several properties along the proposed trail route. The MCC2P segments begins at Kirk Farm Fields (a county-owned property) and ends at Pavilion Blvd. where the county owns over 5 acres of land behind the Regal Starlight Movie Theatre. There is also an approximately 3-acre, county-owned parcel on the north side of Mallard Creek, about halfway through the MCC2P route. Where feasible, the MCC2P will utilize the county-owned properties for the trail alignment.

## **Private Property Impacts**

The MCC2P trail segment will likely impact about 8 private properties with 5 property owners. The project team weighed the relative costs and impacts to property owners when evaluating alignment alternatives. Gaining support from the public and impacted property owners will be key to the success of the project.



Figure 2.9 – MCC2P Real Estate Overview



#### PERMITTING AND COORDINATION

The permits likely to be required for construction of the XCLT-MCC2P Segment are:

#### Mecklenburg County - Floodplain Development

Per the County's floodplain regulations, modifications to the watercourse will require the submission of a Floodplain Development Permit (FDP) with certification requirements that include a Flood Impact Assessment (FIA) study. The FIA study will be created using a detailed hydrologic and hydraulic model of the proposed improvements. It is anticipated that the floodplain modification will be applied for as a no-rise condition since there are existing insurable structures currently located within the floodplain. This project cannot cause an increase in base flood elevations on an insurable structure.

#### NCDEQ Erosion and Sedimentation Control Permit

The project will require a permit application package which will include NCDEA E&SC checklist, a financial responsibility form to be signed by the City, calculation package, construction plans, and application fee.

# US Army Corps of Engineers (USACE) and NC Division of Water Resources (NCDWR) Section 404 and 401 Clean Water Act Permits

If stream and/or wetland impacts are necessary to meet the needs of the project, then a pre-construction notification (PCN) will be submitted to the USACE and NCDWR requesting authorization to perform the necessary impacts. Based on the anticipated minimal impacts associated with this project, a general Nationwide Permit (NWP) is applicable.

As part of the permit application process, coordination with the US Fish and Wildlife Service (USFWS) is necessary in order demonstrate that no adverse effects to federally threatened or endangered species will result from the proposed project. In addition, coordination with the NC State Historic Preservation Office (NCSHPO) is necessary to account for potential historic, cultural and/or archeological resources within or near the project area.

Compensatory mitigation will likely be required to off-set all unavoidable impacts to streams and/ or wetlands associated with the project. The purchase of mitigation credits through the City's Umbrella Mitigation Bank will be proposed during the PCN process.

NCDOT – The project will cross I-485 and will require a Controlled Access (CA) review and will require an encroachment agreement with NCDOT.













#### **UTILITIES COORDINATION SUMMARY**

McAdams performed a utility assessment for the MCC2P that addresses existing facilities, future facilities, and non-utility conflicts observed during investigation. The following are the owners of existing utilities in the project area that could be impacted by this project:







Figure 2.10 - Utility Owners Along MCC2P Corridor

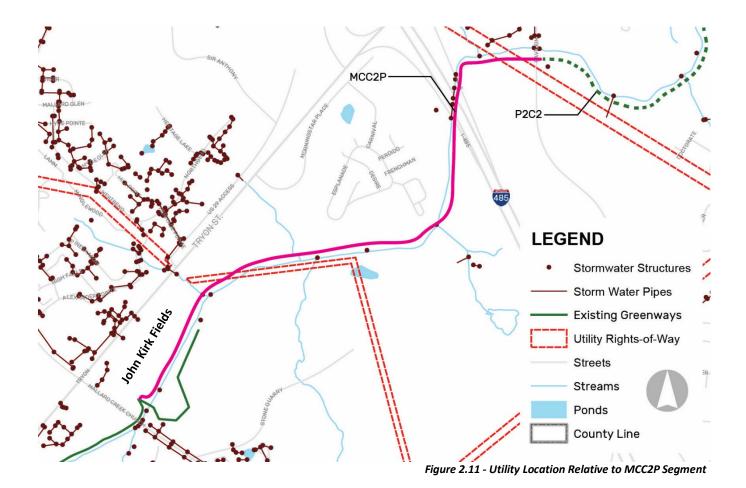
**Duke Energy Distribution** - The trail alignment alternatives were located to avoid as many conflicts as possible. Coordination with Duke-Progress will be required to ensure conflicts are minimized.

**Duke Energy Transmission** – The project will cross under two sets of transmission lines. The transmission line near Kirk Farm Fields will not be impacted, but coordination with Duke Energy is still necessary. The Trail crosses a second set of transmission lines between Pavilion Blvd and I-485. This crossing will not impact Duke facilities, but coordination will be necessary here as well. The project will be required to follow Duke Energy's Electric Transmission Right of Way Requirements for Shared-Use Paths/Trails. Duke Energy does not allow structures in their Transmission easements, and therefore, none will be proposed in these areas.

**Charlotte Water** - Sanitary sewer lines run along Mallard Creek for the length of the trail segment. The trail will provide horizontal clearance around elevated sanitary manholes, avoid running parallel directly over the sanitary line to the extent practicable, cross perpendicularly to the extent practicable, and ensure adequate cover remains for these facilities. Care will also be taken to avoid any structure foundations located in close proximity to underground lines.

Additionally, work is being done to add another sanitary sewer line along the creek and a water reuse line through Kirk Farm Field. These improvements may include the repaving of the parking lot. The MCC2P project will need to coordinate with the design team performing the work.







#### NATURAL RESOURCES ASSESSMENT

McAdams performed a natural resources assessment for the MCC2P project study corridor on April 8, 2020. The assessment included:

- A review of available information pertaining to wetlands, soils and protected species,
- A field reconnaissance to determine the locations of jurisdictional waters of the United States and potentially sensitive habitats, including those that could support federally threatened or endangered species, and
- Consultation with the N.C. State Historic Preservation Office (SHPO).

McAdams conducted a preliminary delineation of jurisdictional waters within the project area and identified the presence of jurisdictional streams and wetlands. The Preliminary Jurisdictional and Isolated Waters Delineation Map (Figures 4.A-B in Appendix B) depicts the approximate location of these features. McAdams staff also completed field investigations for potential habitat for federally protected species within the project area. All forested areas of the site are potential habitat for the Northern long-eared bat (NLEB). The project area is not within an area with known NLEB roost trees. Mallard Creek contains potential habitat for the Carolina heelsplitter within



Figure 2.12 - Wildlife habitat on edge of Kirk Farm Fields



Figure 2.13 - Mallard Creek

McAdams recommends proceeding with a detailed delineation and verification of the surface water and wetlands. McAdams also recommends conducting surveys for Schweintz's sunflower, smooth coneflower and Michaux's sumac within each species' optimal survey window. A mussel survey may also be required. Further, we recommend continued coordination with our office regarding permit impacts to the jurisdictional and isolated waters present on site, if necessary.

#### **GEOTECHNICAL ASSESSMENT**

the project area.

Given the lack of design & construction funding at the time of this study, and the City's desire to limit impacts on adjacent property owners, no geotechnical field work was performed.



## POST CONSTRUCTION STORMWATER ORDINANCE (PCSO) SUMMARY

The Post Construction Storm Water Ordinance (PCSO) adopted by the City of Charlotte regulates stormwater discharge related to development and redevelopment activities. The PCSO provides guidance to protect, maintain, and enhance public health, safety, environment, and general welfare. Per the Post Construction Administrative Manual, the PCSO applies to a project if it meets certain criteria for built upon area (BUA) or total disturbed area.

The MCC2P segment is located within the Central Catawba Watershed District, and therefore shall comply with standards set forth ins Sec. 18-143 of the PCSO. A greenway may be exempt for BUA and buffer impacts for the width of the trail described in the Mecklenburg County Master Plan (or 10 ft if none is listed). A project is exempt from the PCSO if it cumulatively disturbs less than 1 acre and creates less than 20,000 square feet of BUA. Given these requirements, a summary of the likely criteria for the MCC2P segment is as follows:

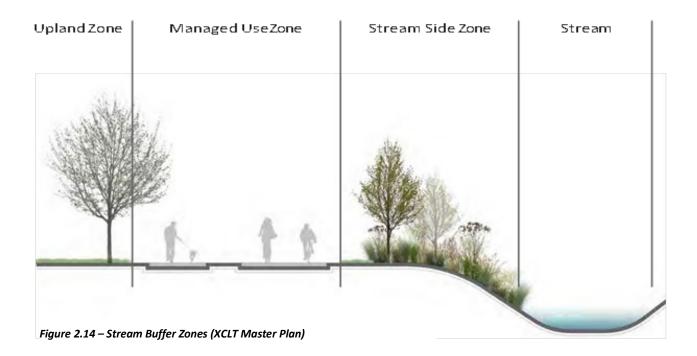
- The cumulative disturbed areas will exceed 1 acre and will create more than 20,000 sf of BUA and will therefore, not be exempt from requirements set forth in the PCSO.
- Low-density projects for the Central Catawba district are defined as those with less than 24% BUA. The project will likely meet this standard and as such will need to provide vegetated conveyances to manage runoff.
- Peak flow control is only required for low-density projects if the proposed improvements will
  result in significant increases in post-development flows to downstream properties. This project
  will likely be exempt due to its proximity to the floodplain of Mallard Creek.

In addition to regulating BUA, the PCSO also establishes stream buffers for perennial and intermittent streams per watershed district. A summary of these buffers for this project is as follows:

- Streams draining greater than or equal to 640 acres shall have a 100-foot buffer, plus 50 percent of the area of the flood fringe beyond 100 feet.
- The 100-foot buffer consists of three zones: a stream side zone (30'), managed use zone (45'), and upland zone (25'+50% of the flood fringe area).

Per the administrative manual, the trail is exempt for up to 10' of width if it is located within a sanitary sewer easement. Based on the conceptual alignments presented, the maximum anticipated impacts for the project are estimated 85,000 square feet. There are several buffer impact mitigation opportunities, including revegetation and paying an impact fee of \$10 per SF. The mitigation should occur within the vicinity of the project and either before or at the same time as the impacts. The revegetation option is typically the most cost effective. There may be opportunities to revegetate sections of the trail on the publicly owned parcels. For budgeting purposes, \$850,000 was assumed as the buffer impact fee for this segment. Of note, there are no mitigation requirements for impacts outside the stream side zone.







#### **TOPOGRAPHY**

The existing topography through the MCC2P trail segment is relatively flat along the creek for much of the project corridor. The trail will be in the flood plain, which is flat. The challenge with this corridor will be getting positive drainage towards the creek and not creating a berm with the trail that keeps water from getting into the creek. There are several natural and manmade ditches that the trail will cross, and additional pipes and ditches will mostly likely be required to ensure proper drainage. The creek surface is channelized and sits several feet below the top of banks for most of the corridor. Considerations for maintaining a safe distance from top of bank need to be made during design per AASHTO Bicycle Design Guide (2012) to prevent unsafe side slopes to the trail.

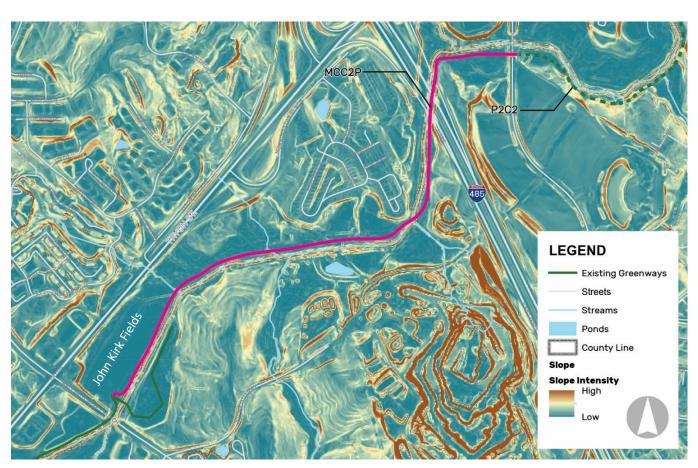


Figure 2.15 - MCC2P Trail Segment Topography



#### SEGMENT ALTERNATIVES DEVELOPMENT

The alignment concepts for the project were developed considering opportunities, constraints, and barriers between Mallard Creek Church Road and Pavilion Blvd. The project was broken into key areas, each of which features a specific design challenge, alignment options, permitting/ feasibility constraints, and/or development coordination opportunities. These key areas were broken into segment alternatives and are denoted by unique letter/color identifiers as shown in Figure 2.17. Segment alternatives are summarized in the table on page 24, and the associated evaluation process is discussed in detail on the pages that follow. Depending on the segments selected in the alternatives there is some overlap between some of the segments. Therefore, the cost estimates per segment will not necessarily be the same as the alternatives. Any overlap will be accounted for during the alternative analysis.



Figure 2.16 – MCC2P Key Areas & Mainline Trail Segment Alternatives



ID	Segment Name	Length	Challenges / Constraints
1A	Parking Lot to Woodline On West Side of Kirk Farm Fields	0.28 mi	Environmental impacts to Wetlands; Impacts to real estate; Coordination with County for field programming
1B	Parking Lot to Woodline On East Side of Kirk Farm Fields	0.23 mi	Coordination with County for field programming; Sewer Line Coordination
1C	End of Existing Boardwalk to Woodline	0.01 mi	Environmental impacts to Wetlands; additional work on existing structures to bring into operation; additional cost of a bridge crossing
2A	North Side of Mallard Creek from Woodline to First Crossing Opportunity	0.59 mi	Minimizing environmental impacts; coordinating with Duke and Charlotte water; Impacts to private property owners,
2B	South Side of Mallard Creek to I- 485	0.61 mi	Impacts to private property owners, coordinating with Duke to cross easement while in wetlands; coordinating with Quarry to reduce public exposure to operations
3A	First Creek Crossing Opportunity	0.18 mi	Impacts to private property owners; Achieving a no-rise for the flood model will be difficult to impossible and will probably mean a CLOMR; coordinating with Charlotte water to minimize sewer impacts, coordinating with Quarry to reduce public exposure to operations
3B	Second Creek Crossing Opportunity	0.22 mi	Impacts to private property owners; Achieving a no-rise for the flood model will be difficult and will probably mean a CLOMR, coordinating with Charlotte water to minimize sewer impacts, coordinating with Quarry to reduce public exposure to operations
<b>4A</b>	I-485 to Pavilion Blvd (West Side of Creek)	0.50 mi	Impacts to private property owners; Topography; Minimizing environmental impacts; coordinating with Duke to cross Transmission line with structures; additional flood modeling of Stony Creek; encroachment agreement with NCDOT required (includes Controlled Access review)
4B	I-485 to Pavilion Blvd (East Side of Creek)	0.40 mi	Impacts to private property owners; Coordinating with Duke to cross Transmission line; coordination with Charlotte Water for new sewer line; encroachment agreement with NCDOT required (includes Controlled Access review)

Table 2.1 – Trail Segment Alternatives Table



#### Segment 1A - Parking Lot to Woodline On West Side of Kirk Farm Fields

Segment 1A connects on the west end of the existing parking lot at Kirk Farms Fields and run along the tree line on the edge of the playing fields. Some clearing may be required to preserve the playing area of the fields and coordination would need to take place with Mecklenburg County to determine the extents. Additionally, coordination with Mecklenburg County needs to take place to ensure programming and use of fields is maintained.

#### Segment 1B - Parking Lot to Woodline On East Side of Kirk Farm Fields

Segment 1B would follow along the existing sewer line on the east side of the Kirk Farms Fields on top of the berm. Minimal clearing would be required but Charlotte Water would need to review the alignment and care would need to be taken to ensure utility conflicts are managed and minimized. Additionally, coordination with Mecklenburg County needs to take place to ensure programing and use of fields is maintained.

#### Segment 1C - End of Existing Boardwalk to Woodline

Segment 1C comes off the existing end of the boardwalk and would either cross the creek to then continue to segment 2A with a new bridge or follow along the east side of the creek on segment 2B. The existing boardwalk and bridge would also need improvements to make the structures safe for the public. A structural inspection and recommendations would be required from a qualified structural engineer and would likely include replacing at least all the decking and some of the super structure of the boardwalk. Existing structure costs were not completed as part of this study.

## Segment 2A - North Side of Mallard Creek from Woodline to First Crossing Opportunity

Segment 2A follows the existing sewer line along the north side of the creek for about half a mile until either the first or second crossing opportunity. There are several wetlands that need to be avoided/mitigated, and the trail would cross both a Duke Transmission line and a Duke Distribution line.

## Segment 2B – South Side of Mallard Creek to I-485

Segment 2B stays on the south side of the creek where it would meet Segment 3A and stay on that side of the creek the entire way to I-485. The alignment would be on the Martin Marietta Quarry property and would need to navigate several wetlands and some operations for the Quarry. The trail would cross and then run parallel to the Duke Transmission line. The segment would also cross the Duke Distribution line and then run on top of the proposed sewer line all the way to I-485.

#### <u>Segment 3A – First Creek Crossing Opportunity</u>

The first crossing opportunity for connecting the west side with the east is before the pinch point of the Queen's Grant Mobile Home Park (end of Elysian Fields Street) and the quarry. The location is not the shortest distance across the flood way, but it will be upstream of insurable structures and minimizes conflicts with the sewer line. Additional coordination with the Quarry needs to take place to ensure operations are not impacted. Conflicts with the sewer line will need coordination to ensure foundations do not interfere with both the existing lines on the west side of the creek and the proposed lines on the east side of the creek.





Figure 2.16 – MCC2P Key Areas & Mainline Trail Segment Alternatives

#### Segment 3B – Second Creek Crossing Opportunity

The second crossing opportunity is between the end of the Queen's Grant Mobile Home Park and the I-485 overpass. This crossing allows for more distance between the proposed bridge and the existing mobile home park and quarry. This crossing location has the shortest distance needed to span the flood way. However, it puts more insurable structures upstream and may be ruled out by the flood model. Conflicts with the sewer line will need coordination to ensure foundations do not interfere with both the existing lines on the west side of the creek and the proposed lines on the east side of the creek.

## Segment 4A - I-485 to Pavilion Blvd (West Side of Creek)

Segment 4A continues after segment 2A without crossing to the east side of the creek. The trail would use the existing bench under the I-485 overpass and then would cross the Duke Transmission line. The trail would then cross Mallard Creek on the west side of the Pavilion Blvd. road bridge and then go underneath Pavilion Blvd. to meet up with the next section of the XCLT, Section 11.



#### Segment 4B - I-485 to Pavilion Blvd (East Side of Creek)

Segment 4B runs between I-485 and the east side of Pavilion Blvd. This section would follow the proposed sewer line under I-485 on an existing bench in the flood plain. Once on the north side of the interstate, the trail will cross another Duke Transmission easement then follow the creek under the Pavilion Blvd overpass to connect with Section 11 of the XCLT.

## TRAIL CONNECTIONS

Providing access beyond primary street connections is key to encouraging higher usership of the mainline trail. The MCC2P trail segment proposes providing trail connections in one location with the possibility of a second connection to the Queen's Grant Mobile Home Park. The connections will give access to surrounding neighborhoods of varying demographics and socioeconomic backgrounds, fulfilling one of the major goals of the XCLT of equity and access for all. Through the construction of these connections, existing and future residents will gain access to an extensive network of greenways to the south and to future trails to the north. Trail connections will be 10-ft wide (may be reduced to 8 ft depending on the site conditions and constraints). The XCLT Master Plan recommends connections use a different surface material than mainline trail and calls for inclusion of amenities (benches, trash receptacles, etc.) based on available funding.

Segment Name	Description	Length Est. Cost	Challenges / Constraints
Pavilion Blvd	Connector trail to	250-ft	Topography; Impact to Duke Energy
Connector	sidewalks along Pavilion Blvd	\$70,000	transmission easement; Real estate
Queen's Grant	Provides direct connection	463-ft	Topography; Stakeholder coordination
Mobile Home	to the Queen's Grant Mobile	\$130,000	to identify location of trail connection
Park Connection	Home Park		

**Table 2.2 Trail Connections Summary** 



#### **HYDRAULICS SUMMARY**

A new pedestrian stream crossing of Mallard Creek is proposed as part of the MCC2P segment. Conceptual hydraulic modeling was performed to assess the feasibility and impact of the proposed trail upstream of two potential crossing locations.

As there are existing insurable structures in the floodplain, the proposed pedestrian bridge locations were analyzed to ensure that no rise in floodwater elevations at these structures would occur as a result of the trail installation.

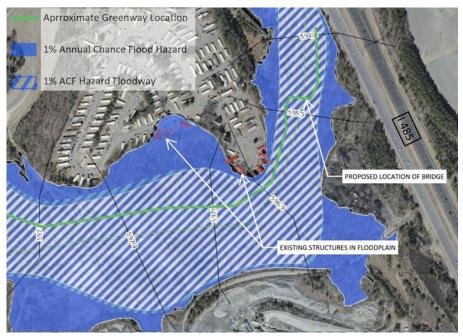


Figure 2.17 - FEMA Floodplain Map

Two locations were evaluated

between the Duke Transmission easement and I-485. The first option (First Crossing Opportunity) crosses the flood way where the width would be roughly 378-ft and therefore there would be bridge bents within the flood way. The second option (Second Crossing Opportunity) crosses at a narrower section of the flood way, only 280-ft. Bents to support the bridge would still mostly likely be within the flood way but could assist in reducing flood impacts.

The analysis showed the assumed preliminary pedestrian bridge design will generate a rise in flood elevation at the bridge, but not at the existing structures. The final design of the bridge deck and piers is a crucial element in the flood study and must be analyzed to ensure that it does not cause a rise in floodplain elevation on existing structures.

This does not meet the requirements for a no-rise certification, and therefore a Conditional Letter of Map Revision is being recommended as a necessary next step.



#### **PUBLIC INVOLVEMENT**

Due to the challenges that communities are facing across the world with COVID-19, large gatherings are an unnecessary public health risk. Typically, the project team would present materials and facilitate a conversation with community members in person. Instead, a virtual public meeting was held using a recorded presentation that was published on the City website along with a survey to solicit public feedback. Both Sections 10 (MCC2P) and 11 (P2C2) were included in the presentation and survey. The survey was available for 2 weeks from May 21<sup>st</sup>, 2020 through June 5<sup>th</sup>. A total of 104 responses were recorded.

Two key survey questions were "How would you or members of your household like to use the future Cross Charlotte Trail?" and "Which destinations would you or members of your household most like to access from the Cross Charlotte Trail?" Survey respondents were able to select as many or as few options as they wanted for both questions. Results are displayed in Charts 1 and 2. The majority of people both walk and bike, and they value access to UNCC, dining, grocery stores, and retail.

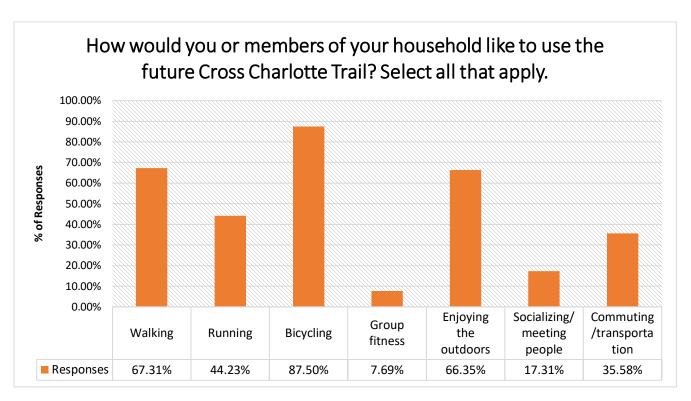


Chart 2.1



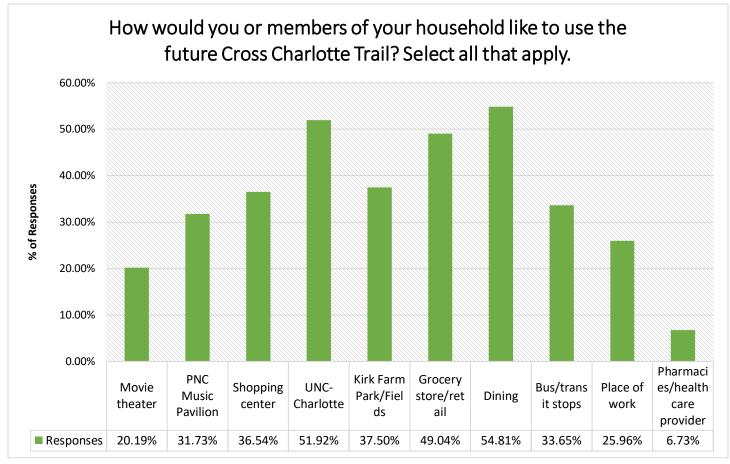


Chart 2.2



#### PLACEMAKING OPPORTUNITIES

Given the topography and unique urban forest environment, the trail itself may be viewed by many users as an experience and opportunity to connect with nature. Additional placemaking/amenity desires and ideas could be identified through future public engagement activities and coordination with the Arts & Science Council. Potential locations and ideas for placemaking that were identified during the study by the project team included the following:

#### Kirk Farm Trailhead

The area near the parking lot is a central location that serves as the trailhead and crossroads of several trails: the existing Mallard Creek Greenway, the MCC2P Greenway Segment, and the boardwalk trail. This spot has regional significance as it could become the northernmost primary trailhead for the entire XCLT alignment. As such, it could serve as a potential site for a plaza/gathering point for trail users as well as recreational users of Kirk Farm Fields. Amenities and public art will likely be inspired by and blend with the surrounding natural environment.







Figure 2.19 Boardwalk at Kirk Farm

## I-485 Underpass

As the MCC2P Greenway Segment heads north towards Pavilion Blvd, it passes underneath I-485. The immense infrastructure and constant buzz of traffic on the eight-lane interstate is a noticeable change from the quieter stretches of the XCLT, however, an opportunity for public art and murals also exists. The City could consider commissioning local artists and youth to collaborate on a mural project.

#### County-owned Parcel

Approximately halfway between Mallard Creek Church Rd and Pavilion Blvd, the County owns around 3 acres of land on the northside of Mallard Creek. This area could provide an opportunity for a resting area or an outdoor classroom area with auditorium style seating for nearby school groups.



## 3. PREFERRED ALIGNMENT

#### PREFERRED ALIGNMENT

All potential alignments using the nine separate segments were evaluated based on the criteria outlined below.



## Safety

Proximity to the Quarry Operations is undesirable from both the City and Quarry's perspective – the further away from operations the more preferred.



## Directness

The directness of the alternative is indirectly proportional to the length of trail option - the more direct the trail is from point A to point B, the more preferred.



## **Environmental Impacts**

Impacts to the PCCO and SWIM buffers, streambank impacts, and trail location on or adjacent to brownfield sites were considered less favorable.



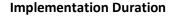
#### **Trail Experience**

Because trail experience is subjective, alternatives with a greater variety of typical section types and potential viewsheds were considered more favorable.



## Constructability

Each alternative was evaluated based on the complexity of construction required for each option – i.e. boardwalks, tunnels, bridges were considered more complex to construct.





The potential construction schedule was evaluated on an order of magnitude basis (i.e. 12 mo., 18 mo., 24 mo.) for each alternative with shorter durations being favorable.



## **Opinion of Probable Cost (Construction)**



The Opinions of Probable Cost (OPCC) for the various segments was considered. The lower the construction cost, the more favorable.

# \$

## **Permitting Cost**

The potential PCSO/SWIM mitigation costs of each alternative were considered. The lower the potential permitting cost, the more favorable.



## **Private Property impacts**

This evaluation criterion was based solely on the number of parcels impacted by each alternative. The greater the private property impact, the less favorable.



## **XCLT Trail – Mallard to Pavilion Section**

Alternative 1 (Preferred Alignment) - Segments 1B, 2A, either 3A or 3B, and 4B.

TOTAL PROJECT ESTIMATE	\$11,790,000	
PROJECT CONTINGENCY (25%):	\$2,357,500	
SUB TOTAL:	\$9,430,000	
CONSTRUCTION PHASE:	\$7,104,000	
REAL ESTATE PHASE:	\$434,000	
DESIGN PHASE	\$1,136,000	
PLANNING PHASE:	\$756,000	
ricernative 2 (Frenchica ringiliment, Jeginents 12) 27, etimer 37, et al.		



Figure 3.1 - MCC2P Alternative 1

## **Notes and Assumptions:**

Selection of 3A or 3B is pending further property owner discussion and FEMA floodplain modeling. Segment 3A was used to price the section that will be either 3A or 3B, as it was more conservative.

Easements will be able to be acquired for proposed alignment.

NCDOT will not require C/A review and only encroachment agreement.

FEMA flood model will not create a rise on insurable structures.

Assumes no utility relocation, signals, landscaping, or lighting.



#### **XCLT Trail – Mallard to Pavilion Section**

Alternative 2 - Either Segments 1B or 1C, 2B, 3A, and 4B.

TOTAL PROJECT ESTIMATE	\$14,000,000
PROJECT CONTINGENCY (25%):	\$2,799,250
SUB TOTAL:	\$11,197,000
CONSTRUCTION PHASE:	\$7,968,000
REAL ESTATE PHASE:	\$1,074,000
DESIGN PHASE	\$1,294,000
PLANNING PHASE:	\$861,000



Figure 3.2 – MCC2P Alternative 2

#### **Notes and Assumptions:**

Selection of 1B and 1C is pending further property owner discussion and FEMA floodplain modeling.

Assumes easements will be able to be acquired for proposed alignment.

Assumes NCDOT will not require C/A review and only encroachment agreement.

Assumes FEMA flood model will not create a rise on insurable structures.

Assumes no utility relocation, signals, landscaping, or lighting.

Assumes Quarry and Duke will let the path go on their property and easements



#### **XCLT Trail – Mallard to Pavilion Section**

Alternative 3 - Segments 1B, 2A, and 4A.

PLANNING PHASE:	\$810,000
DESIGN PHASE	\$1,217,000
REAL ESTATE PHASE:	\$604,000
CONSTRUCTION PHASE:	\$7,547,000
SUB TOTAL:	\$10,178,000
PROJECT CONTINGENCY (25%):	\$2,544,500
TOTAL PROJECT ESTIMATE	\$12,730,000



Figure 3.3 – MCC2P Alternative 3

#### **Notes and Assumptions:**

Assumes easements will be able to be acquired for proposed alignment.

Assumes NCDOT will not require C/A review and only encroachment agreement.

Assumes FEMA flood model will not create a rise on insurable structures.

Assumes Duke will allow structures in their easement.

Assumes no utility relocation, signals, landscaping, or lighting.



#### **ALTERNATIVE ANALYSIS**

Table 3.1 -Alternatives

	PROS	CONS
Alternative 1  1B to 2A to either 3A or 3B to 4B  Mainline Length = 1.41 Miles  Total Project Cost = \$11.79M	<ul> <li>Minimizes amount of boardwalk</li> <li>Maintains distance from Quarry operations</li> <li>Minimizes Easement Costs</li> <li>Provides connections to Neighborhoods</li> </ul>	<ul> <li>Proximity to homes</li> <li>A no-rise may not be achievable in flood modeling</li> <li>Difficult construction access</li> </ul>
Alternative 2  1B or 1C to 2B to 3A to 4B  Mainline Length = 1.63 Miles  Total Project Cost = \$14.00M	<ul> <li>Minimizes number of stream crossings if using 1C and existing boardwalk</li> <li>Long boardwalks would mean less grading through wetlands</li> </ul>	<ul> <li>Proximity to quarry operations</li> <li>Cannot have structures in Duke transmission easement</li> <li>High Right-of-Way costs</li> <li>Would need to rehab existing boardwalk if using 1C</li> <li>Most expensive construction cost</li> </ul>
Alternative 3  1B to 2A to 4A  Mainline Length = 1.48 Miles  Total Project Cost = \$12.73M	<ul> <li>Maintains distance from Quarry operations</li> <li>Provides connections to Neighborhoods</li> <li>Utilizes county owned property</li> </ul>	<ul> <li>Cannot have structures in Duke transmission easement</li> <li>Multiple bridge crossings (2)</li> <li>Difficult construction access</li> </ul>

#### **RECOMMENDATIONS**

Alternative 1 was chosen as the recommended preferred alignment for the MCC2P trail segment because it:

- Minimizes environmental/stream buffer impacts.
- Provides access to the Queen's Grant Mobile Home park.
- Reduces the number of structures need to cross the creek to just one bridge with boardwalks.
- Minimizes potential utility conflicts.
- Maximizes preservation of the natural character of the surrounding areas.
- Minimizes required clearing of trees because it mainly follows the sewer line.
- Keeps as much distance from the Quarry operations as possible.
- Costs the least.

The project team also recommends constructing both trail connections, fulfilling the XCLT goal of equity and access for all. As mentioned previously in this report, the recommended alternative will be presented to the public for input at the beginning of the design phase and adjusted as necessary.



#### 4. COST & IMPLEMENTATION

#### **Cost Estimates**

Estimated project costs, based on planning and preliminary engineering efforts, are shown for the trail recommended alternative in Table 4.1. Construction costs for the mainline and the trail connections were estimated separately and include earthwork/grading, stream crossing structures, roadway materials, and trail materials. Costs are driven largely by topography (grading) and stream crossings (bridges and boardwalks). Assumptions for the estimates include the following:

- 2-inch asphalt concrete surface course
- 6-inch aggregate base course
- 12-ft wide mainline
- 10-ft wide trail connections
- Mobilization of 5%
- Construction Cost Contingency of 25%
- Additional cost of inflation of 10% over 3 years
- No real estate costs for portions of trail on County or State-owned parcels

Complete construction cost breakdowns for all trail segments are included in Appendix A.

Table 4.1 – Recommended Alternative Costs

PLANNING PHASE:	\$756,000
DESIGN PHASE	\$1,136,000
REAL ESTATE PHASE:	\$434,000
CONSTRUCTION PHASE:	\$7,104,000
SUB TOTAL:	\$9,430,000
PROJECT CONTINGENCY (25%):	\$2,357,500
TOTAL PROJECT ESTIMATE	\$11,790,000

#### **Implementation**

Construction will be dependent on real estate acquisition and availability of funding. If necessary, the project may be constructed in phases although phasing may result in an increase in total project cost due to a loss of efficiency in mobilization, permitting, and construction activities.

If project construction is phased, the phases should be divided such that there are access points at both ends of each phase for user safety reasons.



#### **APPENDICES**

#### APPENDIX A – OPINIONS OF PROBABLE CONSTRUCTION COSTS

**APPENDIX B - PRELIMINARY NATURAL RESOURCES REPORT** 

APPENDIX C - PHASE I ENVIRONMENTAL SITE ASSESSEMENT



#### APPENDIX A – OPINIONS OF PROBABLE CONSTRUCTION COSTS

XCLT – Mallard Creek Church to Pavilion (MCC2P) Alternative 1 Project Location: Charlotte, NC

Project Description: 12' Wide Shared Use Path Client: City of Charlotte ENGINEER'S OPINON OF PROBABLE COST OF CONSTRUCTION – PLANNING

	Segments 1B, 2A, 3A or 3B, 4B						
Item#	Section	CIC	Item Description	Quantity	Unit	Unit Price	Amount
1	800	10800.000	Mobilization	1	LS	\$162,500.00	\$162,500.00
2	SP-01	8000.000	Comprehensive Grading	1	LS	\$605,100.00	\$605,100.00
3	SP-03	20006.001	Select Material	0	TN	\$36.27	\$0.00
4	SP-04	81170.000	Erosion Control	1	LS	\$279,500.00	\$279,500.00
5	SP-05	80136.000	Rock Removal	0	CY	\$201.50	\$0.00
6	270	10270.000	Geotextile for Soil Stabilization	12834	SY	\$2.22	\$28,491.48
7	520	10520.000	Aggregate Base Course	4245	TN	\$39.24	\$166,558.20
8	610	10610.401	Asphalt Concrete Surface Course, Type S 9.5B	1078	TN	\$109.41	\$117,943.35
9	710	10710.104	6" Portland Cement Concrete Pavement, Miscellaneous (without Dowels)	54	SY	\$60.00	\$3,240.00
10	848	10848.000	4 " Concrete Sidewalk or pad	200	SY	\$51.62	\$10,324.00
11	848	10848.002	Truncated Dome Mats, CLDS 10.35B	4	EA	\$259.39	\$1,037.56
12	SP-06	80010.000	Safety Rail, Metal CLDS 50.04	500	LF	\$134.65	\$67,325.00
13	SP-07	80006.021	Bollards, wood	6	EA	\$305.00	\$1,830.00
14	SP-08	80006.000	Bollards, pipe	3	EA	\$1,000.00	\$3,000.00
15	876	10876.503	Geotextile for Drainage	1000	SY	\$2.22	\$2,220.00
16	901	10901.005	Contractor Furnished, Type D Sign	300	SF	\$24.57	\$7,371.00
17	904	10904.003	Sign Erection, Type D	10	EA	\$102.50	\$1,025.00
18	1205	11205.010	Paint Pavement Marking Lines, 4"	7640	LF	\$2.86	\$21,850.40
19	SP-09		Boardwalk	666	LF	\$1,117.00	\$743,922.00
20	SP-10		Prefabricated Pedestrian Bridge	290	LF	\$3,200.00	\$928,000.00
21	SP-11		Drainage	1.31	MI	\$100,000.00	\$131,098.48
22	620	10620.000	Asphalt Binder for Plant Mix	65	TN	\$531.72	\$34,391.47
23	SP-12	80001.000	Traffic Control	1	LS	\$94,700.00	\$94,700.00
SUBTOTAL:					\$3,411,427.95		
	CONTINGENCY AT 25%:				\$852,856.99		
	INFLATION COST AT 10% OVER 3 YEARS SUBTOTAL:			S SUBTOTAL:	\$1,129,182.65		
	TOTAL CONSTRUCTION COST SAY: \$			\$5,394,000			

#### Notes:

- 1. Cost opinion does not include costs for easement or ROW acquisition.
- 2. Cost opinion does not include engineering, geotech, design survey, or construction administration.
- 3. Cost opinion does not include cost for private utility relocations.
- 4. Unit costs used in this cost opinion are representative of typical market costs as best known to the Consultant as of the date of this estimate, and do not account for inflationary cost escalation.
- Quantities used in this cost opinion are approximations based Planning Level Concepts by McAdams and are subject to revision prior to design/bid.
- 6. The Engineer has no control over the cost of labor, materials, or equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable costs, as provided here, are made on the basis of the Engineer's experience and qualifications and represent the Engineer's judgment as a design professional familiar with the construction industry. The Engineer cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from opinions of probable cost prepared for the Owner.



#### XCLT – Mallard Creek Church to Pavilion (MCC2P) Alternative 2 Project Location: Charlotte, NC

# Project Description: 12' Wide Shared Use Path Client: City of Charlotte ENGINEER'S OPINON OF PROBABLE COST OF CONSTRUCTION – PLANNING

	Segments 1B or 1C, 2B, 3A, and 4B						
Item#	Section	CIC	Item Description	Quantity	Unit	Unit Price	Amount
1	800	10800.000	Mobilization	1	LS	\$185,100.00	\$185,100.00
2	SP-01	8000.000	Comprehensive Grading	1	LS	\$707,500.00	\$707,500.00
3	SP-03	20006.001	Select Material	0	TN	\$36.27	\$0.00
4	SP-04	81170.000	Erosion Control	1	LS	\$151,200.00	\$151,200.00
5	SP-05	80136.000	Rock Removal	0	CY	\$201.50	\$0.00
6	270	10270.000	Geotextile for Soil Stabilization	6945	SY	\$2.22	\$15,417.90
7	520	10520.000	Aggregate Base Course	2297	TN	\$39.24	\$90,129.38
8	610	10610.401	Asphalt Concrete Surface Course, Type S 9.5B	778	TN	\$109.41	\$85,091.22
9	710	10710.104	6" Portland Cement Concrete Pavement, Miscellaneous (without Dowels)	1037	SY	\$60.00	\$62,200.00
10	848	10848.000	4 " Concrete Sidewalk or pad	100	SY	\$51.62	\$5,162.00
11	848	10848.002	Truncated Dome Mats, CLDS 10.35B	4	EA	\$259.39	\$1,037.56
12	SP-06	80010.000	Safety Rail, Metal CLDS 50.04	500	LF	\$134.65	\$67,325.00
13	SP-07	80006.021	Bollards, wood	6	EA	\$305.00	\$1,830.00
14	SP-08	80006.000	Bollards, pipe	3	EA	\$1,000.00	\$3,000.00
15	876	10876.503	Geotextile for Drainage	1000	SY	\$2.22	\$2,220.00
16	901	10901.005	Contractor Furnished, Type D Sign	300	SF	\$24.57	\$7,371.00
17	904	10904.003	Sign Erection, Type D	10	EA	\$102.50	\$1,025.00
18	1205	11205.010	Paint Pavement Marking Lines, 4"	500	LF	\$2.86	\$1,430.00
19	SP-09		Boardwalk	1762	LF	\$1,117.00	\$1,968,154.00
20	SP-10		Prefabricated Pedestrian Bridge	80	LF	\$3,200.00	\$256,000.00
21	SP-11		Drainage	1.43	МІ	\$100,000.00	\$143,000.00
22	620	10620.000	Asphalt Binder for Plant Mix	47	TN	\$531.72	\$24,812.01
23	SP-12	80001.000	Traffic Control	1	LS	\$107,900.00	\$107,900.00
	SUBTOTAL:					SUBTOTAL:	\$3,886,905.07
	CONTINGENCY AT 25%:					\$971,726.27	
INFLATION COST AT 10% OVER 3 YEARS SUBTOTAL:				S SUBTOTAL:	\$1,286,565.58		
	TOTAL CONSTRUCTION COST SAY:			N COST SAY:	\$6,146,000.00		

#### Notes:

- 1. Cost opinion does not include costs for easement or ROW acquisition.
- 2. Cost opinion does not include engineering, geotech, design survey, or construction administration.
- 3. Cost opinion does not include cost for private utility relocations.
- 4. Unit costs used in this cost opinion are representative of typical market costs as best known to the Consultant as of the date of this estimate, and do not account for inflationary cost escalation.
- Quantities used in this cost opinion are approximations based Planning Level Concepts by McAdams and are subject to revision prior to design/bid.
- 6. The Engineer has no control over the cost of labor, materials, or equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable costs, as provided here, are made on the basis of the Engineer's experience and qualifications and represent the Engineer's judgment as a design professional familiar with the construction industry. The Engineer cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from opinions of probable cost prepared for the Owner.



# XCLT – Mallard Creek Church to Pavilion (MCC2P) Alternative 3 Project Location: Charlotte, NC

# Project Description: 12' Wide Shared Use Path Client: City of Charlotte ENGINEER'S OPINON OF PROBABLE COST OF CONSTRUCTION – PLANNING

	Segments 1B, 2A, and 4A						
Item#	Section	CIC	Item Description	Quantity	Unit	Unit Price	Amount
1	800	10800.000	Mobilization	1	LS	\$174,100.00	\$174,100.00
2	SP-01	8000.000	Comprehensive Grading	1	LS	\$986,000.00	\$986,000.00
3	SP-03	20006.001	Select Material	0	TN	\$36.27	\$0.00
4	SP-04	81170.000	Erosion Control	1	LS	\$146,200.00	\$146,200.00
5	SP-05	80136.000	Rock Removal	0	CY	\$201.50	\$0.00
6	270	10270.000	Geotextile for Soil Stabilization	12363	SY	\$2.22	\$27,445.86
7	520	10520.000	Aggregate Base Course	4089	TN	\$39.24	\$160,450.48
8	610	10610.401	Asphalt Concrete Surface Course, Type S 9.5B	1038	TN	\$109.41	\$113,618.35
9	710	10710.104	6" Portland Cement Concrete Pavement, Miscellaneous (without Dowels)	54	SY	\$60.00	\$3,240.00
10	848	10848.000	4 " Concrete Sidewalk or pad	100	SY	\$51.62	\$5,162.00
11	848	10848.002	Truncated Dome Mats, CLDS 10.35B	4	EA	\$259.39	\$1,037.56
12	SP-06	80010.000	Safety Rail, Metal CLDS 50.04	2000	LF	\$134.65	\$269,300.00
13	SP-07	80006.021	Bollards, wood	6	EA	\$305.00	\$1,830.00
14	SP-08	80006.000	Bollards, pipe	3	EA	\$1,000.00	\$3,000.00
15	876	10876.503	Geotextile for Drainage	2000	SY	\$2.22	\$4,440.00
16	901	10901.005	Contractor Furnished, Type D Sign	300	SF	\$24.57	\$7,371.00
17	904	10904.003	Sign Erection, Type D	10	EA	\$102.50	\$1,025.00
18	1205	11205.010	Paint Pavement Marking Lines, 4"	1	LF	\$2.86	\$2.86
19	SP-09		Boardwalk	656	LF	\$1,117.00	\$732,752.00
20	SP-10		Prefabricated Pedestrian Bridge	230	LF	\$3,200.00	\$736,000.00
21	SP-11		Drainage	1.48	MI	\$100,000.00	\$148,000.00
22	620	10620.000	Asphalt Binder for Plant Mix	62	TN	\$531.72	\$33,130.32
23	SP-12	80001.000	Traffic Control	1	LS	\$101,500.00	\$101,500.00
	SUBTOTAL:						\$3,655,605.43
	CONTINGENCY AT 25%:				NCY AT 25%:	\$913,901.36	
	INFLATION COST AT 10% OVER 3 YEARS SUBTOTAL:			S SUBTOTAL:	\$1,210,005.40		
	TOTAL CONSTRUCTION COST SAY:				N COST SAY:	\$5,780,000.00	

#### Notes:

- 1. Cost opinion does not include costs for easement or ROW acquisition.
- 2. Cost opinion does not include engineering, geotech, design survey, or construction administration.
- 3. Cost opinion does not include cost for private utility relocations.
- 4. Unit costs used in this cost opinion are representative of typical market costs as best known to the Consultant as of the date of this estimate, and do not account for inflationary cost escalation.
- Quantities used in this cost opinion are approximations based Planning Level Concepts by McAdams and are subject to revision prior to design/bid.
- 6. The Engineer has no control over the cost of labor, materials, or equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable costs, as provided here, are made on the basis of the Engineer's experience and qualifications and represent the Engineer's judgment as a design professional familiar with the construction industry. The Engineer cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from opinions of probable cost prepared for the Owner.



### APPENDIX B – PRELIMINARY NATURAL RESOURCES REPORT



June 1, 2020

Mr. Phil Reiger General Services Director City of Charlotte 600 East 4<sup>th</sup> Street Charlotte, NC 28202

RE: Preliminary Natural Resources Report

Cross Charlotte Trail – Mallard Creek to Pavilion Boulevard

Charlotte, Mecklenburg County, NC

Dear Mr. Reiger,

McAdams conducted a preliminary natural resources review of the subject property, which included a review of available information pertaining to wetlands, soils and protected species, a field reconnaissance to determine the locations of jurisdictional waters of the United States and potentially sensitive habitats, including those that could support federally threatened or endangered species, and consultation with the N.C. State Historic Preservation Office (SHPO). The 40-acre project area follows Mallard Creek from Mallard Creek Church Road northeast to Pavilion Boulevard in Charlotte, Mecklenburg County, North Carolina. **Figure 1** depicts the location of the property on the US Geological Survey (USGS) Harrisburg, NC 7.5-minute quadrangle topographic map. **Figure 2** shows the location of the site on the Web Soil Survey map. The project area includes portions of several parcels along a City of Charlotte sanitary sewer easement. The site consists mainly of mixed pine-hardwood forest and a sanitary sewer easement that runs parallel to Mallard Creek. A recreational field at Kirk Farm Fields Community Park is also included in the project area. **Figure 3** depicts the subject property on an aerial photograph of the area.

#### JURISDICTIONAL WATERS REVIEW

Waters of the US, commonly referred to as jurisdictional waters, include intermittent and perennial streams, ponds, lakes, rivers and wetlands that are adjacent to or eventually connect to navigable waters. They are under the jurisdiction of the US Army Corps of Engineers (USACE), which regulates the discharge of fill material, mechanized land clearing and excavation within the jurisdictional boundaries. If these features are not connected downstream then they are considered isolated and are regulated only by the State of North Carolina through the NC Division of Water Resources (DWR) under Title 15A N.C. Administrative Code 02H .1300 as amended by Session Law 2015-286. DWR, in certain river basins and watersheds, and some local governments also regulate activities within riparian buffers established around surface waters to protect water quality. Vegetative buffers only apply to wetlands in certain municipalities. Proposed development and road and utility construction require jurisdictional and isolated waters and their associated riparian buffers to be identified and delineated to avoid impacts where practicable and obtain the proper permits when impacts cannot be avoided.



#### **Scope of Work**

Previously mentioned maps along with US Fish and Wildlife Service National Wetland Inventory (NWI) Maps, NC Flood Insurance Rate Maps and DWR maps of Surface Water Classifications and Hydrologic Unit Codes were reviewed prior to visiting the site. The project area lies within the Yadkin Pee Dee River Basin in the Mallard Creek subwatershed (12-digit HUC 030401050103). Stream features within the study area are Mallard Creek and its tributaries (DWR Stream Index Number 13-17-5) and have a stream classification of Class C. The project area is located entirely within the Mallard Creek floodplain (FIRM Map Numbers 3710458800K and 3710458700L, effective 11/16/2018).

The delineation of jurisdictional and isolated waters consisted of a field reconnaissance of the property to identify surface waters and areas that meet the criteria for jurisdictional wetlands described below. Surface waters (intermittent and perennial streams, ponds, lakes and rivers) are identified by an ordinary high water mark which is usually indicated by a clear line impressed in the bank, shelving along the water's edge, changes in the character of the soil, destruction of terrestrial vegetation or presence of litter or debris.

Areas that exhibit hydrophytic vegetation, hydric soils and wetland hydrology are wetlands according to the 1987 Corps of Engineers Wetland Delineation Manual and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region (Version 2.0). Hydrophytic vegetation is present when more than 50 percent of the dominant species are obligate wetland, facultative wetland or facultative plants listed on the National Wetland Plant List. Hydric soils are identified based on field indicators of hydric soils contained within the appropriate regional supplement to the Corps of Engineers Wetland Delineation Manual. Field indicators for hydric soils rely on the presence of gray or black colored surface and subsurface soils. Areas exhibiting wetland hydrology are permanently inundated to irregularly inundated or saturated with water. Since inundation and saturation may not be present during an individual field visit to conduct a wetland delineation, field indicators of wetland hydrology were established to confirm the presence of this parameter. These field indicators include, but are not limited to, direct observation of saturation or inundation, watermarks on woody vegetation, drift lines, sediment deposits, drainage patterns within wetlands and the presence of oxidized root channels in the soil. Areas that meet all three criteria for wetlands may be either jurisdictional or isolated depending on whether they are adjacent or connect to navigable waters.

Within the City of Charlotte, S.W.I.M. (Surface Water Improvement and Management) stream buffers are required on intermittent and perennial streams and ponds connected to these features beginning at the point where the stream drains 100 acres or greater. Maintenance of 35-, 50- or 100-foot wide riparian buffers are required on these features, depending on the drainage area. In flood zones, fifty percent of the area of the FEMA fringe beyond 100 feet will be added to the buffer width. Additionally, the project area lies within the City of Charlotte's Yadkin Southeast Catawba Post-Construction District, however, the proposed project is not subject to Post-Construction Buffer rules. All applicable buffer widths are reflected by the Polaris 3G Mecklenburg County Property Ownership and Land Records System (Polaris). Charlotte may exempt surface waters depicted on Polaris from the buffer requirement if an on-site determination shows that the features are one of the following:



- 1) Ditches and manmade conveyances other than modified natural streams;
- 2) Manmade ponds and lakes that are located outside natural drainage ways; or
- 3) Ephemeral (stormwater) streams.

The City of Charlotte relies on the USACE's determination of Clean Water Act jurisdiction for application of S.W.I.M. buffers.

Wetland boundaries were identified in the field and located using a hand-held GPS unit; no flags were hung to mark the wetland in the field. For each surface water or wetland identified, we evaluated the downstream connection to distinguish isolated from jurisdictional waters. Each surface water feature shown on the most recent version of the applicable topographic map or soil survey was also examined for possible exemption from the riparian buffer rules using DWR stream evaluation techniques.

#### **Results**

McAdams observed several streams and wetlands during field reconnaissance activities conducted on April 8, 2020, as shown on the Preliminary Jurisdictional and Isolated Waters Delineation Map provided as **Figure 4**. No potentially isolated waters, including wetlands, were observed on the subject property. All streams and wetlands are contiguous to the relatively permanent waters designated as Stream Features S1 through S7.

Features subject to the City of Charlotte S.W.I.M. buffer rules are shown in **Figures 4A** and **4Bc**. The limits of stream channels and wetland boundaries provided are based on our best professional judgment and require verification from the USACE. A field meeting to confirm jurisdictional features located on the subject property has not been scheduled with the USACE.

A detailed delineation, in which wetland boundaries are flagged in the field, is necessary to request verification of the delineation. In general, property owners may also choose to submit a jurisdictional and isolated waters survey to the USACE for their signature, which is referred to as an Approved Jurisdictional Determination (AJD) and establishes the jurisdictional and isolated waters boundaries until the map expires five years from the date it is signed. A USACE signed survey is not required for permitting but is offered to provide property owners with the assurance that the boundaries of jurisdictional and isolated waters on the property would not change for five years. A Preliminary Jurisdictional Determination (PJD) requires less documentation, may or may not include a survey of waters and wetlands and is sufficient to proceed with project permitting.

#### **Jurisdictional Waters and Riparian Buffer Permitting**

There are several layers of regulations that apply independently to jurisdictional waters and riparian buffers. However, the USACE and DWR have developed a joint application with concurrent review for permits to impact jurisdictional and isolated waters including wetlands, which is referred to as a Pre-Construction Notification Application.



#### **Jurisdictional Waters**

The USACE has issued activity specific Nationwide Permits to streamline the permitting process for unavoidable impacts to less than 300 linear feet of jurisdictional stream channel that exhibits important aquatic function and/or perennial stream channels and/or 0.5 acre of jurisdictional wetlands and other surface waters. Pre-construction notification and approval from the USACE is required for any amount of stream or wetland impacts for residential, commercial and recreational projects. Nationwide Permits have a maximum 45-day processing period upon the USACE's receipt of a complete application. Compensatory mitigation may be required to offset the loss of jurisdictional stream channels and wetlands when an approval from the USACE is required. Cumulative impacts for residential and commercial projects over the NWP thresholds will require an Individual Permit (IP). Individual Permits require an analysis to determine that the proposed impact to waters of the U.S. is the least environmentally damaging practical alternative, typically require compensatory mitigation, notification to adjacent property owners, a public notice and may require a public hearing.

Impacts permitted by the USACE also require a Section 401 Water Quality Certification from DWR. The DWR has issued General Water Quality Certifications for impacts to jurisdictional waters approved by USACE and impacts to riparian buffers. Generally, pre-construction notification and approval from the DWR is required for greater than 150 linear feet of stream channel impact and 0.10 acre of wetland impacts for the entire project area. Water Quality Certifications have a maximum 60-day processing period upon the DWR's receipt of a complete application. Compensatory mitigation may be required for impacts to 300 linear feet or more of perennial stream channel and/or one or more acre of wetlands.

#### **Riparian Buffers**

According to Section 4.5.1 of the Charlotte-Mecklenburg Water Quality Buffer Implementation Guidelines, the proposed project is not subject to Charlotte's Post- Construction Buffers. The project is subject to Charlotte's S.W.I.M. buffers (a.k.a. Water Quality Buffers). S.W.I.M. buffers are divided in up to three zones that determine the amount of disturbance allowed. Greenway trails 10 feet or less in width are allowed in the Managed Use and Upland Zones. Greenway trails 10 feet or less in width are allowed in the Stream Side Zone if they are located within an existing sewer right of way. Trails greater than 10 feet wide in any zone require mitigation. No commercial structures or fill are allowed within the buffers, and diffuse flow of runoff must be maintained through the buffers. Filling or piping streams or removing vegetation from the stream side or managed use zones require buffer mitigation.

#### **Isolated Waters**

Isolated wetland or open water impacts less than 0.5 acre in the Piedmont Region or isolated stream impacts less than 150 linear feet for the entire project are eligible for a General Permit and do not require application or written approval if the project complies with the conditions listed in the General Permit. Mitigation is required for isolated wetland impacts exceeding the thresholds for written approval. An Individual Water Quality Certification and compensatory mitigation are required for impacts to 300 linear feet or more of streams and/or one acre of isolated wetlands for the entire project.



#### Stream, Wetland and Buffer Mitigation

The USACE can require mitigation for any stream or wetland impacts. In most cases, stream mitigation is not triggered until stream impacts approach 150 linear feet. Wetland mitigation is usually triggered when impacts exceed 0.1 acre. Stream and wetland mitigation are required at a 2:1 ratio unless the quality of resource is below its reference condition. Activities within protected riparian buffers and classified as Allowable with Mitigation require buffer mitigation. Mitigation is required at a 3:1 ratio for impacts to Zone 1 and a 1.5:1 ratio for impacts to Zone 2. The following is the current fee schedule from the NC Division of Mitigation Services (DMS) allowing for payment to offset wetland, stream and buffer impacts as of July 1, 2019:

Fee Category (Units)	Fee
Stream (per linear foot)	\$525.65
Riparian wetland – premium rate area (per acre)	\$91,984.41
Riparian buffer (per square foot)	\$0.94

In addition to mitigation, demonstration of avoidance and minimization of impacts to waters of the U.S. will be required as justification for requested impacts. This will be required during the permitting process.

#### **Stormwater Control Requirements**

Should a 401 Water Quality Certification be required for a corresponding Clean Water Act Section 404 permit, high-density projects that disturb one acre or more of land require either a stormwater management plan in accordance with the Division of Energy, Mineral and Land Resources stormwater rules (15A NCAC 02H .1003) or calculations to document that the project will not cause degradation of downstream surface waters.

#### PRELIMINARY PROTECTED SPECIES REVIEW

Plants and animals with Endangered or Threatened status are protected under the Endangered Species Act (ESA) of 1973 (16 US 1531 et seq.). On April 1, 2020, McAdams used the US Fish and Wildlife (USFWS) Information for Planning and Consultation (IPaC) website to obtain a list of threatened and endangered species that may occur in the proposed project location and/or may be affected by the proposed project. This process generates an Official Species List that is shown in **Table 1**. No Critical Habitats were identified within or within the vicinity of the project area. A list of natural heritage resources was obtained from the NC Natural Heritage Program (NCNHP) on April 1, 2020. No records for rare species, important natural communities or natural areas were identified within the project study area. Conservation/managed areas within the project study area include Mallard Creek Greenway and Kirk Farm Park, as depicted on the attached annotated Natural Heritage Map. Two occurrences of Schweinitz's sunflower are documented within one mile of the project area.

During field reconnaissance activities on April 8, 2020, McAdams staff assessed the project area for the presence of potential habitat for federally protected species identified on the USFWS official species list. Each listed species and their habitat requirements are described below.



Table 1. Federally Protected Species That May Be Within the Project Study Area							
(4/1/2020)							
Scientific Name Common Name Federal Statu							
	Mammals						
Myotis septentrionalis	Northern long-eared bat	Threatened					
	Clams						
Lasmigona decorata	Carolina heelsplitter	Endangered					
Flowering Plants							
Helianthus schweinitzii	Schweinitz's sunflower	Endangered					
Echinacea laevigata	Smooth Coneflower	Endangered					
Rhus michauxii	Michaux's Sumac	Endangered					

#### Northern Long-eared Bat (Myotis septentrionalis) - Threatened

"Appearance: The northern long-eared bat is a medium-sized bat with a body length of 3 to 3.7 inches but a wingspan of 9 to 10 inches. Their fur color can be medium to dark brown on the back and tawny to pale-brown on the underside. As its name suggests, this bat is distinguished by its long ears, particularly as compared to other bats in its genus, *Myotis*."

"Winter Habitat: Northern long-eared bats spend winter hibernating in caves and mines, called hibernacula. They use areas in various sized caves or mines with constant temperatures, high humidity, and no air currents. Within hibernacula, surveyors find them hibernating most often in small crevices or cracks, often with only the nose and ears visible."

"Summer Habitat: During the summer, northern long-eared bats roost singly or in colonies underneath bark, in cavities or in crevices of both live trees and snags (dead trees). Males and non-reproductive females may also roost in cooler places, like caves and mines. Northern long-eared bats seem to be flexible in selecting roosts, choosing roost trees based on suitability to retain bark or provide cavities or crevices. This bat has also been found rarely roosting in structures, like barns and sheds." (USFWS 2018)

#### Carolina Heelsplitter (Lasmigona decorata) - Endangered

"Description: The Carolina heelsplitter was first described in 1852. It has an ovate, trapezoid-shaped shell. The outer surface of the shell varies from greenish brown to dark brown in color, and shells from younger specimens have faint greenish brown or black rays. The nacre (inside surface) is often pearly white to bluish white, grading to orange in the deepest part of the shell. However, in older specimens the entire nacre may be a mottled pale orange. The shell of the largest known specimen of the species measures 4.6 inches in length. Like other freshwater mussels, the Carolina heelsplitter feeds by siphoning and filtering food particles from the water column . . ."

"Habitat: The Carolina heelsplitter requires cool, clean, well-oxygenated water. Stable, silt-free stream bottoms appear to be critical to the species. Typically, stable areas occur where the stream banks are well-vegetated with trees and shrubs." (USFWS 2017a)



#### Schweinitz's Sunflower (Helianthus schweinitzii) - Endangered

"Description: Schweinitz's sunflower is a perennial that regularly grows approximately 6.5 feet tall (though it can be shorter if young or injured) and can occasionally reach heights of 16 feet. It has thickened roots that are used by the plant to store starch. The stem is purplish in color, and the upper third bears secondary branches at 45-degree angles. The leaves are arranged in pairs on the lower part of the stem but usually occur singly (or alternate) on the upper parts. Leaves are attached to the stem at right angles, and the tips of the leaves tend to droop. The leaves are thick and stiff, with a rough upper surface. The upper leaf surfaces have broad spiny hairs that are directed toward the tip and soft white hairs cover the underside. The plant produces small yellow flowers from late August until frost. This species is able to colonize through the dispersal of seeds that readily germinate without a dormant period."

"Habitat: Schweinitz's sunflower occurs in full to partial sun and is found in areas with poor soils, such as thin clays that vary from wet to dry. It is believed that this species once occurred in natural forest openings or grasslands. Many of the remaining populations occur along roadsides." (USFWS 2017c)

#### Smooth Coneflower (Echinacea laevigata) - Endangered

"Description: Smooth coneflower is a perennial herb in the Aster family (Asteraceae) that grows up to 3.3 feet tall from a vertical root stock. The large elliptical to broadly lanceolate basal leaves may reach eight inches in length and three inches in width and taper into long petioles toward the base. They are smooth to slightly rough in texture. The stems are smooth, with few leaves. The mid-stem leaves are smaller than the basal leaves and have shorter petioles. Flower heads are usually solitary. The rays of the flowers (petal-like structures) are light pink to purplish in color, usually drooping, and 2 to 3.2 inches long. Flowering occurs from late May through mid-July and fruits develop from late June to September. The fruiting structures often persist through the fall. Reproduction is accomplished both sexually (by seed) and asexually (by rhizome).

"Habitat: Smooth coneflower is typically found in open woods, glades, cedar barrens, roadsides, clearcuts, dry limestone bluffs, and power line rights-of-way, usually on magnesium and calcium rich soils associated with amphibolite, dolomite or limestone (in Virginia), gabbro (in North Carolina and Virginia), diabase (in North Carolina and South Carolina), and marble (in South Carolina and Georgia). Smooth coneflower occurs in plant communities that have been described as xeric hardpan forests, diabase glades or dolomite woodlands. Optimal sites are characterized by abundant sunlight and little competition in the herbaceous layer. Natural fires, as well as large herbivores, historically influenced the vegetation in this species' range. Many of the herbs associated with Smooth coneflower are also sun-loving species that depend on periodic disturbances to reduce the shade and competition of woody plants." (USFWS 2017d)

#### Michaux's Sumac (Rhus michauxii) - Endangered

"Description: Michaux's sumac is a rhizomatous, densely hairy shrub, with erect stems from one to three feet in height. The compound leaves contain evenly serrated, oblong to lanceolate, acuminate leaflets. Most plants are unisexual; however, more recent observations have revealed plants with both male and female flowers on one plant. The flowers are small, borne in a terminal, erect, dense cluster, and colored greenish yellow to white.



Flowering usually occurs from June to July, while the fruit, a red drupe, is produced through the months of August to October." (USFWS 2017b)

"Habitat: Michaux's sumac grows in sandy or rocky open woods in association with basic soils. Apparently, this plant survives best in areas where some form of disturbance has provided an open area" (USFWS 2017b). Although the USFWS website states that Michaux's sumac grows in open woods in association with basic soils, the species recovery plan states that the species grows in "open woods on acidic soils with low cation exchange capacity" (USFWS 1993).

#### **Bald and Golden Eagle Protection Act**

Description: "Distinguished by a white head and white tail feathers, bald eagles are powerful, brown birds that may weigh 14 pounds and have a wingspan of 8 feet. Male eagles are smaller, weighing as much as 10 pounds and have a wingspan of 6 feet."

Habitat: "Bald eagles require a good food base, perching areas, and nesting sites. Their habitat includes estuaries, large lakes, reservoirs, rivers, and some seacoasts" (USFWS 2007a). Bald eagles build large nests (4 to 6 feet in diameter and larger) in the tops of tall trees and snags that include perches with a clear view of water (USFWS 2007b).

#### **Habitat Assessment Results**

The field reconnaissance conducted on April 8, 2020 revealed that the project area contains potential habitat for federally protected species. All forested areas of the site are potential habitat for the Northern long-eared bat (NLEB). The project is not within an area with known NLEB roost trees. Therefore, intentional take is not prohibited and the City may rely upon the findings of the 1/5/2016 Programmatic Biological Opinion for Final 4(d) Rule on the Northern Long-Eared Bat and Activities Excepted from Take Prohibitions to fulfill project-specific section 7 responsibilities. Mallard Creek contains potential habitat for the Carolina heelsplitter within the project area. Unidentified mussels were observed within Mallard Creek. Potential habitat for Schweinitz's sunflower, smooth coneflower and Michaux's sumac exists along the margins of the athletic field at Kirk Farm Fields Community Park and within three overhead utility easements that the project area crosses — one approximately 500 feet northeast of Kirk Farm Fields Community Park, one mid-way between Kirk Farm Fields Community Park and I-485 and one at the north end of the project area on the west side of Pavilion Boulevard.

#### **CONCLUSIONS**

McAdams conducted a preliminary delineation of jurisdictional waters within the project area and identified the presence of jurisdictional streams and wetlands. The Preliminary Jurisdictional and Isolated Waters Delineation Map (**Figure 4**) depicts the approximate location of these features. McAdams staff also observed potential habitat for federally protected species within the project area, as described above. Habitat photographs are provided in **Appendix A**.



#### **RECOMMENDATIONS**

It is recommended McAdams proceed with a detailed delineation and verification of the surface water and wetland delineation. McAdams also recommends conducting surveys for Schweinitz's sunflower, smooth coneflower and Michaux's sumac within each species' optimal survey window. A mussel survey may also be required. Further, we recommend continued coordination with our office regarding permit impacts to the jurisdictional and isolated waters present on the site, if necessary.

We thank you for the opportunity to provide our services in support of this project and look forward to assisting the City of Charlotte with obtaining the proper permits for development.

Sincerely,

**MCADAMS** 

Kelly Roth, PWS

Environmental Consultant II, Water Resources

#### Attachments:

Figure 1. USGS Map

Figure 2. Soil Survey Map

Figure 3. Aerial Map

Figure 4. Delineation Map

National Wetland Inventory Map

Appendix A. Protected Species Habitat Photographs

USFWS Official Species List (4/1/2020)

NCNHP Site Information (4/1/2020)



#### **Literature Cited**

- U.S. Fish and Wildlife Service. 2018. Northern Long-Eared Bat Fact Sheet. Northern Long-Eared Bat | Species Information, www.fws.gov/midwest/endangered/mammals/nleb/nlebFactSheet.html.
- U.S. Fish and Wildlife Service (N. Murdock and J. Moore). 1993. Michaux's Sumac Recovery Plan. Atlanta, Georgia: U.S. Fish and Wildlife Service. 30 pp.
- U.S. Fish and Wildlife Service. 2007a. Bald Eagle Fact Sheet, https://www.fws.gov/migratorybirds/pdf/management/bald-eagle-fact-sheet.pdf.
- U.S. Fish and Wildlife Service. 2007b. National Bald Eagle Management Guidelines, https://www.fws.gov/migratorybirds/pdf/management/nationalbaldeaglenanagementguidelines.pdf
- U.S. Fish and Wildlife Service/Raleigh Ecological Services Field Office. 2017a. Carolina Heelsplitter | Species Information, www.fws.gov/raleigh/species/es\_carolina\_heelsplitter.html.
- U.S. Fish and Wildlife Service/Raleigh Ecological Services Field Office. 2017b. Michaux's Sumac | Species Information, www.fws.gov/raleigh/species/es\_michauxs\_sumac.html.
- U.S. Fish and Wildlife Service/Raleigh Ecological Services Field Office. 2017c. Schweinitz's Sunflower | Species Information, www.fws.gov/raleigh/species/es\_schweinitz\_sunflower.html.
- U.S. Fish and Wildlife Service/Raleigh Ecological Services Field Office. 2017d. Smooth Coneflower | Species Information, www.fws.gov/raleigh/species/es\_smooth\_coneflower.html.

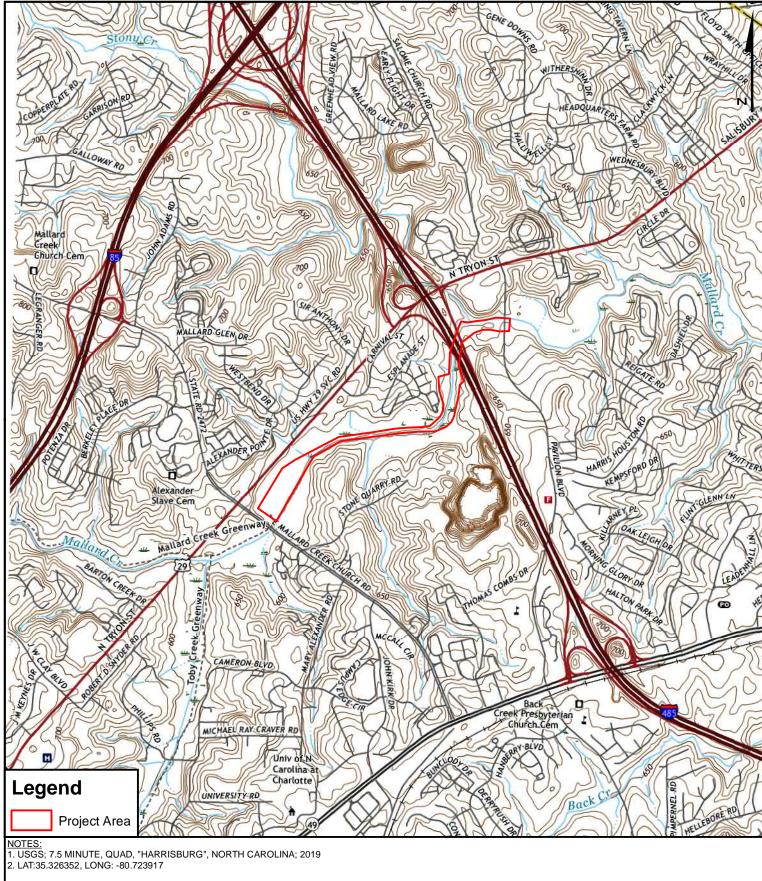




FIGURE 1. USGS TOPOGRAPHIC VICINITY MAP CROSS CHARLOTTE TRAIL CHARLOTTE, MECKLENBURG COUNTY, NC

1,000 2,000 □ Feet

1 inch = 2,000 feet

VERSION: 4/1/2020 DATE:

JOB NO: CCH-20000 DRAWN BY: pierzga





FIGURE 2A. NRCS WEB SOIL SURVEY CROSS CHARLOTTE TRAIL CHARLOTTE, MECKLENBURG COUNTY, NC 0 150300 Feet

1 inch = 750 feet

VERSION:

DATE: 4/1/2020 CCH-20000 JOB NO: DRAWN BY: pierzga

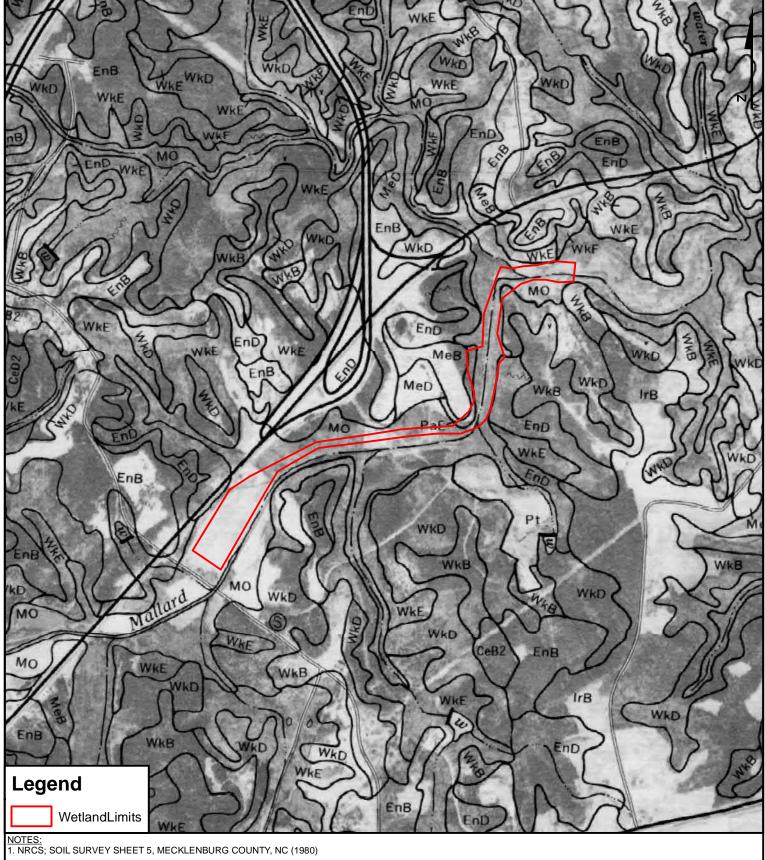




FIGURE 2B. BUFFER SUBJECTIVITY SOIL SURVEY CROSS CHARLOTTE TRAIL CHARLOTTE, MECKLENBURG COUNTY, NC

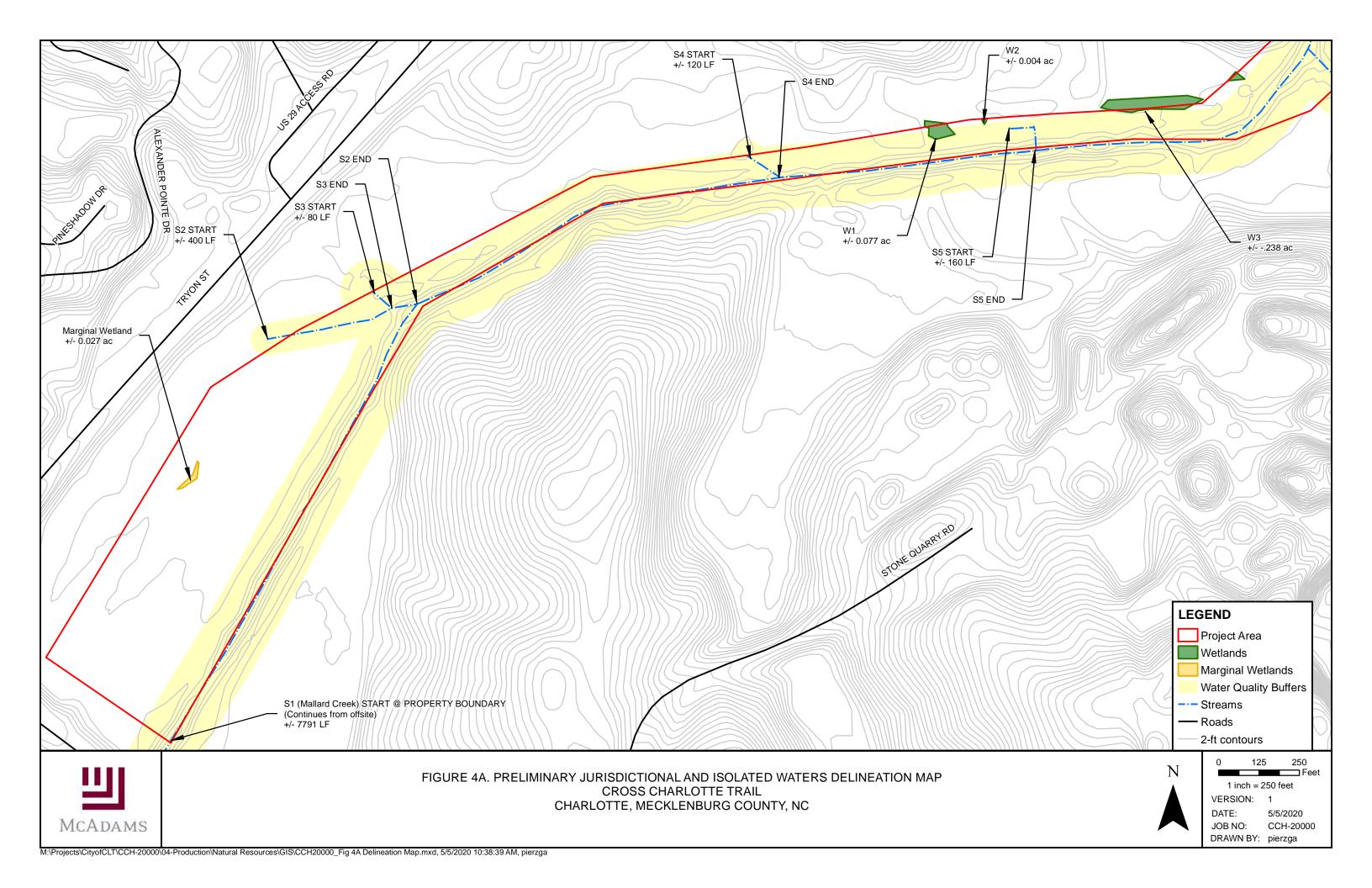
660 1,320

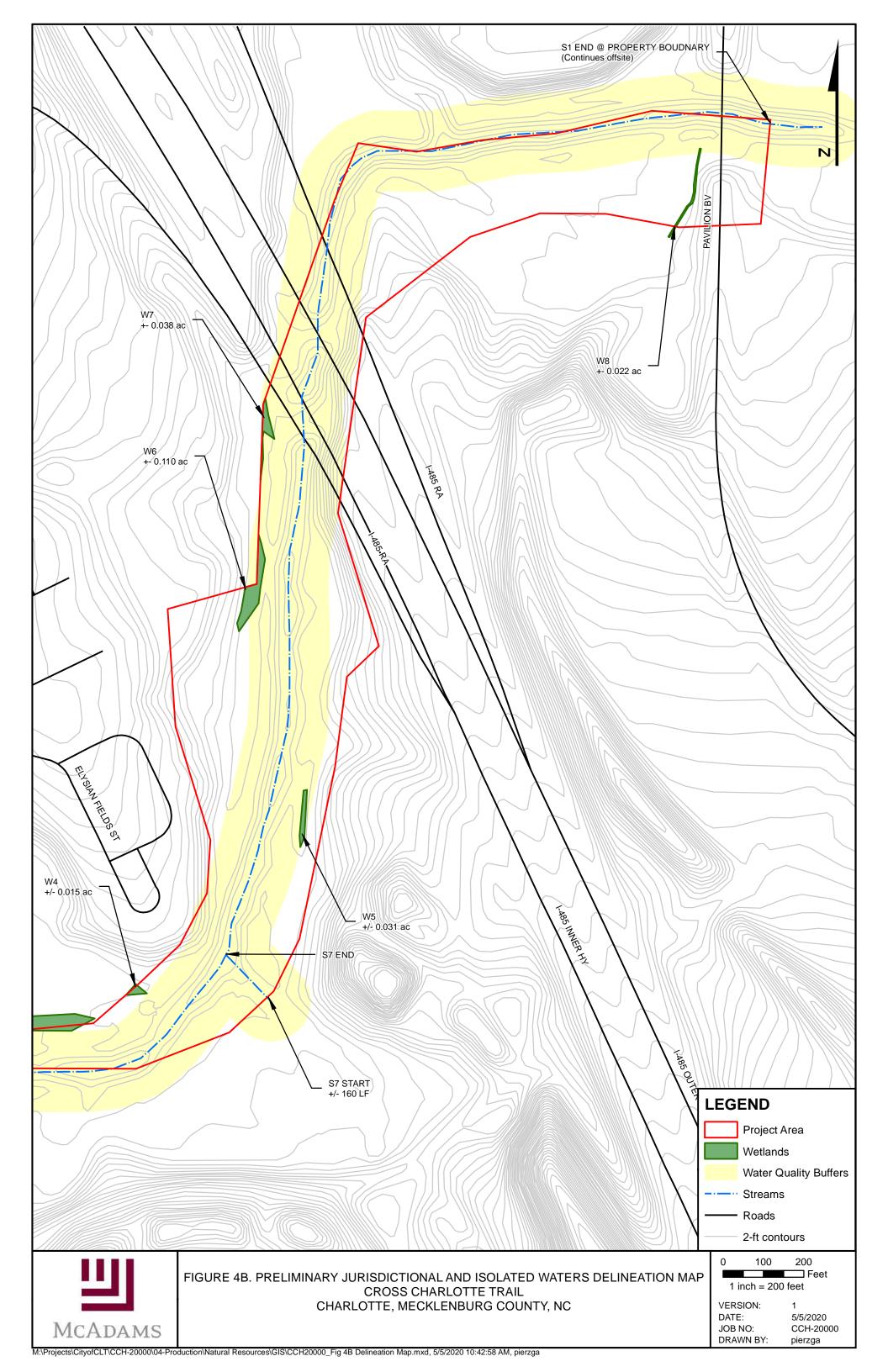
1 inch = 1,320 feet VERSION:

DATE: 4/1/2020 JOB NO: CCH-20000 DRAWN BY: pierzga









# U.S. Fish and Wildlife Service National Wetlands Inventory

## Wetlands



April 1, 2020

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Other

Other

Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



Appendix A.

Protected Species Habitat Photographs (April 8, 2020)



Photo 1. Potential habitat for Schweinitz's sunflower, smooth coneflower and Michaux's sumac adjacent to the forested edges of the athletic field at Kirk Farm Fields Community Park



Photo 2. Potential habitat for Schweinitz's sunflower, smooth coneflower and Michaux's sumac adjacent to the forested edges of the athletic field at Kirk Farm Fields Community Park





Photo 3. Potential habitat for Schweinitz's sunflower, smooth coneflower and Michaux's sumac in power line easement ~500 feet northeast of Kirk Farm Fields Community Park



Photo 4. Potential habitat for Schweinitz's sunflower, smooth coneflower and Michaux's sumac in power line easement at north end of project area east of Pavilion Boulevard





Photo 5. Mallard Creek – potential habitat for Carolina heelsplitter



Photo 6. Mallard Creek bed substrate (potential habitat for Carolina heelsplitter)





Photo 7. Unidentified mussel in Mallard Creek



## United States Department of the Interior

#### FISH AND WILDLIFE SERVICE

Asheville Ecological Services Field Office 160 Zillicoa Street Asheville, NC 28801-1082

Phone: (828) 258-3939 Fax: (828) 258-5330 http://www.fws.gov/nc-es/es/countyfr.html



In Reply Refer To: April 01, 2020

Consultation Code: 04EN1000-2020-SLI-0505

Event Code: 04EN1000-2020-E-01196 Project Name: Cross Charlotte Trail

Subject: List of threatened and endangered species that may occur in your proposed project

location, and/or may be affected by your proposed project

#### To Whom It May Concern:

The attached species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. Although not required by section 7, many agencies request species lists to start the informal consultation process and begin their fulfillment of the requirements under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

This list, along with other helpful resources, is also available on the U.S. Fish and Wildlife Service (Service) Asheville Field Office's (AFO) website: <a href="https://www.fws.gov/raleigh/species/cntylist/nc\_counties.html">https://www.fws.gov/raleigh/species/cntylist/nc\_counties.html</a>. The AFO website list includes "species of concern" species that could potentially be placed on the federal list of threatened and endangered species in the future. Also available are:

Design and Construction Recommendations https://www.fws.gov/asheville/htmls/project\_review/Recommendations.html

Optimal Survey Times for Federally Listed Plants <a href="https://www.fws.gov/nc-es/plant/plant\_survey.html">https://www.fws.gov/nc-es/plant/plant\_survey.html</a>

Northern long-eared bat Guidance <a href="https://www.fws.gov/asheville/htmls/project\_review/NLEB\_in\_WNC.html">https://www.fws.gov/asheville/htmls/project\_review/NLEB\_in\_WNC.html</a>

Predictive Habitat Model for Aquatic Species <a href="https://www.fws.gov/asheville/htmls/Maxent/Maxent.html">https://www.fws.gov/asheville/htmls/Maxent/Maxent.html</a>

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could require modifications of these lists. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of the species lists should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website or the AFO website (the AFO website dates each county list with the day of the most recent update/change) at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list or by going to the AFO website.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a Biological Evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12 and on our office's website at https://www.fws.gov/asheville/htmls/project\_review/assessment\_guidance.html.

If a Federal agency (or their non-federal representative) determines, based on the Biological Assessment or Biological Evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species, and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at: <a href="http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF">http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF</a>.

Though the bald eagle is no longer protected under the Endangered Species Act, please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require additional consultation (see <a href="https://www.fws.gov/southeast/our-services/permits/eagles/">https://www.fws.gov/southeast/our-services/permits/eagles/</a>). Wind energy projects should follow the wind energy guidelines (<a href="http://www.fws.gov/windenergy/">https://www.fws.gov/windenergy/</a>) for minimizing impacts to migratory birds (including bald and golden eagles) and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <a href="http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers.htm">http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers.htm</a>;

http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

#### Attachment(s):

- Official Species List
- Migratory Birds
- Wetlands

## **Official Species List**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Asheville Ecological Services Field Office 160 Zillicoa Street Asheville, NC 28801-1082 (828) 258-3939

## **Project Summary**

Consultation Code: 04EN1000-2020-SLI-0505

Event Code: 04EN1000-2020-E-01196

Project Name: Cross Charlotte Trail

Project Type: DEVELOPMENT

Project Description: Proposed greenway for the City of Charlotte which will run along Mallard

Creek fromMallard Creek Church Road northeast to Pavilion Boulevard.

#### **Project Location:**

Approximate location of the project can be viewed in Google Maps: <a href="https://www.google.com/maps/place/35.326372620426N80.7197377567615W">https://www.google.com/maps/place/35.326372620426N80.7197377567615W</a>



Counties: Mecklenburg, NC

# **Endangered Species Act Species**

There is a total of 5 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

# **Mammals**

NAME STATUS

Northern Long-eared Bat *Myotis septentrionalis* 

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>

Threatened

### Clams

NAME STATUS

Carolina Heelsplitter *Lasmigona decorata* 

Endangered

There is **final** critical habitat for this species. Your location is outside the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/3534

04/01/2020 Event Code: 04EN1000-2020-E-01196

# **Flowering Plants**

NAME

Michaux's Sumac Rhus michauxii

Endangered

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/5217">https://ecos.fws.gov/ecp/species/5217</a>

Schweinitz's Sunflower Helianthus schweinitzii

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/3849">https://ecos.fws.gov/ecp/species/3849</a>

Endangered

Smooth Coneflower Echinacea laevigata

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/3473">https://ecos.fws.gov/ecp/species/3473</a>

Endangered

# **Critical habitats**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

# **Migratory Birds**

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described <u>below</u>.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The Bald and Golden Eagle Protection Act of 1940.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

The birds listed below are birds of particular concern either because they occur on the <u>USFWS</u> <u>Birds of Conservation Concern</u> (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ <u>below</u>. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the <u>E-bird data mapping tool</u> (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <a href="https://ecos.fws.gov/ecp/species/1626">https://ecos.fws.gov/ecp/species/1626</a>	Breeds Sep 1 to Jul 31
Blue-winged Warbler <i>Vermivora pinus</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds May 1 to Jun 30

NAME	BREEDING SEASON
Cerulean Warbler <i>Dendroica cerulea</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/2974">https://ecos.fws.gov/ecp/species/2974</a>	Breeds Apr 28 to Jul 20
Kentucky Warbler <i>Oporornis formosus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 20 to Aug 20
Prairie Warbler <i>Dendroica discolor</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 1 to Jul 31
Prothonotary Warbler <i>Protonotaria citrea</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 1 to Jul 31
Red-headed Woodpecker <i>Melanerpes erythrocephalus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Sep 10
Rusty Blackbird <i>Euphagus carolinus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Wood Thrush <i>Hylocichla mustelina</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Aug 31

# **Probability Of Presence Summary**

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

# **Probability of Presence (■)**

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- 3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

# **Breeding Season** (**•**)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

# Survey Effort (|)

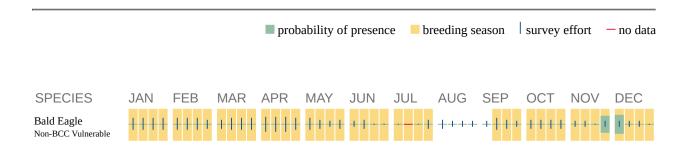
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

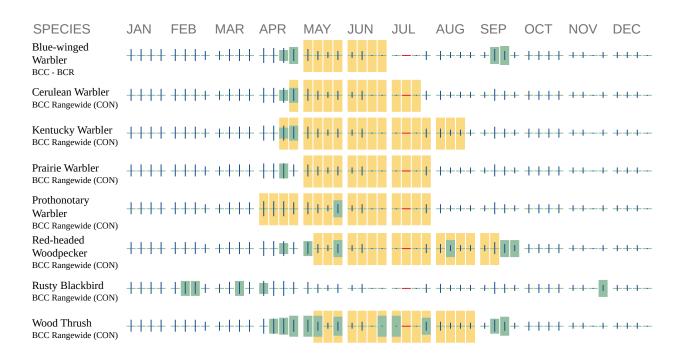
#### No Data (-)

A week is marked as having no data if there were no survey events for that week.

#### **Survey Timeframe**

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Additional information can be found using the following links:

- Birds of Conservation Concern <a href="http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php">http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php</a>
- Measures for avoiding and minimizing impacts to birds <a href="http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php">http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php</a>
- Nationwide conservation measures for birds <a href="http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf">http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf</a>

# **Migratory Birds FAQ**

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures and/or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern</u> (<u>BCC</u>) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>AKN Phenology Tool</u>.

# What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of survey, banding, and citizen science datasets .

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

# How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

# What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- 1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and

3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <a href="Eagle Act">Eagle Act</a> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

# Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the <a href="Northeast Ocean Data Portal">Northeast Ocean Data Portal</a>. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the <a href="NOAA NCCOS Integrative Statistical Modeling">NOAA NCCOS Integrative Statistical Modeling</a> and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic <a href="Outer Continental Shelf">Outer Continental Shelf</a> project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

# What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

### **Proper Interpretation and Use of Your Migratory Bird Report**

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell

04/01/2020 Event Code: 04EN1000-2020-E-01196 7 me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

# Wetlands

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

FRESHWATER FORESTED/SHRUB WETLAND

Palustrine

#### **RIVERINE**

Riverine



NCNHDE-11762

April 1, 2020

Alec Pierzga The John R. McAdams Company 2905 Meridian Parkway Durham, NC 27713 RE: Cross Charlotte Trail; CCH-20000

Dear Alec Pierzga:

The North Carolina Natural Heritage Program (NCNHP) appreciates the opportunity to provide information about natural heritage resources for the project referenced above.

A query of the NCNHP database indicates that there are records for rare species, important natural communities, natural areas, and/or conservation/managed areas within the proposed project boundary. These results are presented in the attached 'Documented Occurrences' tables and map.

The attached 'Potential Occurrences' table summarizes rare species and natural communities that have been documented within a one-mile radius of the property boundary. The proximity of these records suggests that these natural heritage elements may potentially be present in the project area if suitable habitat exists. Tables of natural areas and conservation/managed areas within a one-mile radius of the project area, if any, are also included in this report.

If a Federally-listed species is documented within the project area or indicated within a one-mile radius of the project area, the NCNHP recommends contacting the US Fish and Wildlife Service (USFWS) for guidance. Contact information for USFWS offices in North Carolina is found here: https://www.fws.gov/offices/Directory/ListOffices.cfm?statecode=37.

Please note that natural heritage element data are maintained for the purposes of conservation planning, project review, and scientific research, and are not intended for use as the primary criteria for regulatory decisions. Information provided by the NCNHP database may not be published without prior written notification to the NCNHP, and the NCNHP must be credited as an information source in these publications. Maps of NCNHP data may not be redistributed without permission.

Also please note that the NC Natural Heritage Program may follow this letter with additional correspondence if a Dedicated Nature Preserve, Registered Heritage Area, Clean Water Management Trust Fund easement, or an occurrence of a Federally-listed species is documented near the project area.

If you have questions regarding the information provided in this letter or need additional assistance, please contact Rodney A. Butler at rodney.butler@ncdcr.gov or 919-707-8603.

Sincerely, NC Natural Heritage Program

# Natural Heritage Element Occurrences, Natural Areas, and Managed Areas Intersecting the Project Area Cross Charlotte Trail Project No. CCH-20000 April 1, 2020 NCNHDE-11762

No Element Occurrences are Documented within the Project Area

There are no documented element occurrences (of medium to very high accuracy) that intersect with the project area. Please note, however, that although the NCNHP database does not show records for rare species within the project area, it does not necessarily mean that they are not present; it may simply mean that the area has not been surveyed. The use of Natural Heritage Program data should not be substituted for actual field surveys if needed, particularly if the project area contains suitable habitat for rare species. If rare species are found, the NCNHP would appreciate receiving this information so that we may update our database.

No Natural Areas are Documented within the Project Area

Managed Areas Documented Within Project Area\*

Managed Area Name	Owner	Owner Type
Mallard Creek Greenway	Mecklenburg County	Local Government
Kirk Farm Fields Park	Mecklenburg County	Local Government

NOTE: If the proposed project intersects with a conservation/managed area, please contact the landowner directly for additional information. If the project intersects with a Dedicated Nature Preserve (DNP), Registered Natural Heritage Area (RHA), or Federally-listed species, NCNHP staff may provide additional correspondence regarding the project.

Definitions and an explanation of status designations and codes can be found at <a href="https://ncnhde.natureserve.org/content/help">https://ncnhde.natureserve.org/content/help</a>. Data query generated on April 1, 2020; source: NCNHP, Q1 Jan 2020. Please resubmit your information request if more than one year elapses before project initiation as new information is continually added to the NCNHP database.

# Natural Heritage Element Occurrences, Natural Areas, and Managed Areas Within a One-mile Radius of the Project Area Cross Charlotte Trail Project No. CCH-20000 April 1, 2020 NCNHDE-11762

# Element Occurrences Documented Within a One-mile Radius of the Project Area

Taxonomic	EO ID	Scientific Name	Common Name	Last	Element	Accuracy	Federal	State	Global	State
Group				Observation Date	Occurrence Rank		Status	Status	Rank	Rank
Vascular Plant	6807	Acmispon helleri	Carolina Birdfoot- trefoil	1981-09-04	Н	4-Low		Special Concern Vulnerable	G5T3	S3
Vascular Plant	16266	Acmispon helleri	Carolina Birdfoot- trefoil	1970-08-25	Н	3-Medium		Special Concern Vulnerable	G5T3	S3
Vascular Plant	4104	Acmispon helleri	Carolina Birdfoot- trefoil	2008-08-22	А	2-High		Special Concern Vulnerable	G5T3	S3
Vascular Plant	11916	Anemone berlandieri	Southern Anemone	1972-03	X?	3-Medium		Endangered	G4?	S2
Vascular Plant	13743	Delphinium exaltatum	Tall Larkspur	1800s	Hi?	5-Very Low		Endangered	G3	S2
Vascular Plant	2448	Helianthus schweinitzii	Schweinitz's Sunflower	2005-09-15	X	2-High	Endangered	Endangered	G3	S3
Vascular Plant	20796	Helianthus schweinitzii	Schweinitz's Sunflower	2018	D	2-High	Endangered	Endangered	G3	S3
Vascular Plant	6044	Pseudognaphalium helleri	Heller's Rabbit- Tobacco	1958-10-02	Н	3-Medium		Significantly Rare Peripheral	G4G5T 3T4	S3
Vascular Plant	15457	Pseudognaphalium helleri	Heller's Rabbit- Tobacco	1958-10-02	Н	3-Medium		Significantly Rare Peripheral	G4G5T 3T4	S3
Vascular Plant	24623	Symphyotrichum georgianum	Georgia Aster	2007	Di	3-Medium	Candidate	Threatened	G3	S3

No Natural Areas are Documented Within a One-mile Radius of the Project Area

Managed Areas Documented Within a One-mile Radius of the Project Area

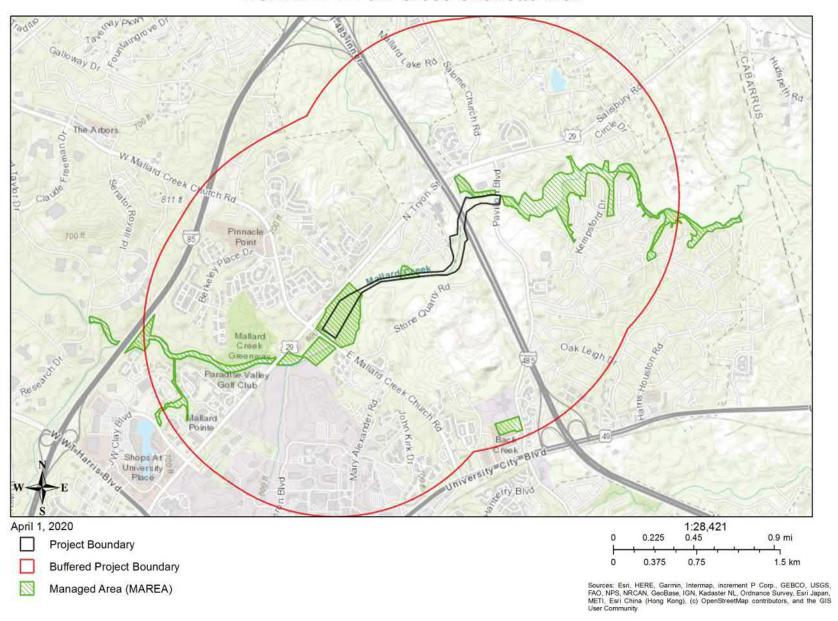
9	,	
Managed Area Name	Owner	Owner Type
Mallard Creek Greenway	Mecklenburg County	Local Government

Managed Areas Documented Within a One-mile Radius of the Project Area

Managed Area Name	Owner	Owner Type	
Kirk Farm Fields Park	Mecklenburg County	Local Government	
University Meadows Park	Mecklenburg County	Local Government	
Barton Creek Greenway	Mecklenburg County	Local Government	

Definitions and an explanation of status designations and codes can be found at <a href="https://ncnhde.natureserve.org/content/help">https://ncnhde.natureserve.org/content/help</a>. Data query generated on April 1, 2020; source: NCNHP, Q1 Jan 2020. Please resubmit your information request if more than one year elapses before project initiation as new information is continually added to the NCNHP database.

# NCNHDE-11762: Cross Charlotte Trail





# APPENDIX C -PHASE I ENVIRONMENTAL SITE ASSESSEMENT



# PHASE I ENVIRONMENTAL SITE ASSESSMENT

# PROPOSED CROSS CHARLOTTE TRAIL MALLARD CREEK CHURCH ROAD TO PAVILION BOULEVARD CHARLOTTE, NORTH CAROLINA 28262

Project No. 1238-20-0024



# **Prepared for:**

# **City of Charlotte**

600 East Fourth Street Charlotte, North Carolina 28202

# Prepared by:

### Wood Environment & Infrastructure Solutions, Inc.

2801 Yorkmont Road, Suite 100 Charlotte, North Carolina 28208 (704) 357-8600

June 11, 2020



Wood Environment & Infrastructure Solutions, Inc. 2801 Yorkmont Road, Suite 100 Charlotte, North Carolina 28208 Licensures: NC Engineering F-1253, Geology C-247 T: 704-357-8600 www.woodplc.com

June 11, 2020

Mr. Steven Gucciardi Project Manager Environmental Services Division City of Charlotte 600 East Fourth Street Charlotte, North Carolina 28202

Subject: Report of Phase I Environmental Site Assessment

**Proposed Cross Charlotte Trail** 

**Mallard Creek Church Road to Pavilion Boulevard** 

201 East Mallard Creek Church Road Charlotte, North Carolina 28262 Wood Project 1238-20-0024

Dear Mr. Gucciardi:

Wood Environment & Infrastructure Solutions, Inc. (Wood) is pleased to submit this report of our Phase I Environmental Site Assessment for the above-referenced subject property (referred to as "site" or "Project Area") located in Charlotte, Mecklenburg County, North Carolina. The purpose of our services was to identify recognized environmental conditions and obvious potential environmental conditions for the Project Area.

This report is intended for the use of the City of Charlotte only, subject to the contractual terms agreed to for this project. Reliance on this document by any other party is forbidden without the expressed written consent of Wood, and that party's acceptance of mutually agreeable terms and conditions. Use of this report for purposes beyond those reasonably intended by City of Charlotte and Wood will be at the sole risk of the user.

This report presents project information, which includes survey procedures and limitations, along with our findings, conclusions and recommendations. We appreciate your selection of Wood for this project and look forward to assisting you further on this and other projects. If you have any questions, please contact Matt Miller at (704) 492-9836.

Sincerely,

**Wood Environment & Infrastructure Solutions, Inc.** 

Derick Haydin, GI Staff Scientist

Senior Environmental Scientist

Matthew T. Miller

**Attachments** 



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		Wood Environment & Infrastructure Solution	ns, Inc.

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# 1.0 PROPERTY SUMMARY

Property Name	Proposed Cross C	harlotte Trail- Mallard Creek to Pavil	ion Boulevard
Property Tax Parcel IDs and	Parcel ID	Roadway	Street Number
Addresses	051-032-06	NA NA	NA
	051-021-03A	NA	NA
	051-032-33	NA	NA
	051-032-04	N Tryon St	11208
	051-033-06	NA	NA
	051-033-02	Morningstar Place Dr	11020
	051-041-01	E Mallard Creek Church Rd	575
	051-033-05	Carnival St	124
	051-021-01	N Tryon St	10600
	051-021-08	NA	NA
	051-021-02	N Tryon St	10400
	051-021-09	E Mallard Creek Church Rd	201
User of this report:	City of Charlotte	tte	
Reason for requesting the	Project area is being considered for purchase by the City of Charlotte to		
Phase I ESA:	create the Cross Charlotte Trail.		
Date of Site Reconnaissance:	April 17, 2020		
Property description:	Parcel ID	Description	
	051-032-06		
	051-021-03A		
	051-032-33	Undeveloped wood	ed land
	051-032-04		
	051-033-06		
	051-033-02	Undeveloped wooded land and cl with storage build	•
	051-033-02 051-041-01	•	dings
		with storage build	dings
	051-041-01	with storage build  Undeveloped wooded land  Undeveloped wooded land and	d and a quarry a mobile home park
	051-041-01 051-033-05	with storage build	d and a quarry a mobile home park

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	051-021-09	Wooded and cleared land, Kirk Farms Park
Current property operations:	Parcel ID	Current Operation
	051-032-06	
	051-021-03A	
	051-032-33	None
	051-032-04	
	051-033-06	
	051-033-02	Public Storage
	051-041-01	Mallard Creek Quarry
	051-033-05	Queen's Grant Mobile Home Park
	051-021-01	
	051-021-08	None
	051-021-02	
	051-021-09	Kirk Farms Park

Figures are presented in **Appendix A**. **Figure 1** presents the Project Area Location Map within the Charlotte area. **Figure 2** presents the Project Area, with nearby parcels outlined and identified on the USGS Topographic Map. **Figure 3** presents the Project Area and Vicinity on an Aerial Photograph.

# 1.1 SUMMARY OF PROPERTY HISTORY

Year	Property Use
1948 to 1988	Mixed use of farmland, cleared land and wooded land
1988 to present	Wooded land and power transmission line easement

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Historical documentation for the property including topographic maps, aerial photographs, Fire insurance Maps (if available) and City Directories was provided by Environmental Data Resources Inc. (EDR) and is further described later in Section 5.2.

# 1.2 USES-ADJOINING PROPERTIES

Northeast	PNC Music Pavilion (707 Pavilion Blvd), Regal Starlight (11240 North Tryon Street), CVS (11430 North Tryon Street) and QuickTrip (11230 North Tryon Street)
Southeast	Mallard Creek Quarry (575 East Mallard Creek Church Road)
Southwest	Kirk Farm Fields (210 East Mallard Creek Church Road) and Shell Gas Station (10000 North Tryon Street)
Northwest	Queen's Grant Mobile Home Park (124 Carnival Street) and Public Storage Facility (11020 Morningstar Place Drive) North Tryon Street followed by Cortland University North (100 Heritage Pointe Road) and Speedway Gas Station (10207 North Tryon Street)

Figure 3 in Appendix A presents the Project Area and Vicinity details on an Aerial Map.

# 2.0 INTRODUCTION

### 2.1 PROJECT ENVIRONMENTAL PROFESSIONALS

Environmental Professional:	Matt Miller
Person(s) conducting site reconnaissance and interviews:	Derick Haydin
Senior Report Reviewer:	Matt Miller

The resume(s) for the individual(s) acting as Environmental Professional for Wood and involved in preparing this report are included in **Appendix G**.

#### 2.2 SCOPE OF SERVICES

Scope of Services:	This Phase I ESA was performed pursuant to our City of Charlotte		
	Unspecified Environmental Consulting Contract No. 2017001238, the		
	scope of services for conducting a Phase I ESA, outlined in ASTM E		
	1527-13 "Standard Practice for Environmental Site Assessments: Phase		
	I Environmental Site Assessment Process", and also in accordance with		
	our April 7, 2020 task order submitted to The City.		

# 2.3 OBJECTIVES OF THIS PHASE I ESA

	_
Objective of this Phase I ESA:	This Phase I ESA is intended to satisfy one of the requirements to permit the City of Charlotte to qualify for the innocent landowner, adjoining property owner, or bona fide prospective purchaser limitations on liability under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (landowner liability protections). This Phase I ESA conforms to standards for "all appropriate inquiries" into the previous ownership and uses of the Project Area as specified by the US Environmental Protection Agency (EPA) in 40 CFR Part 312, and in accordance with good commercial or customary practice.
	The goal of the Phase I ESA process is to identify recognized environmental conditions. The term REC means the presence or likely presence of any hazardous substances or petroleum products in, on, or at a site: (1) due to any release to the environment, (2) under conditions indicative of a release to the environment, or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not RECs. A de minimis condition generally does not present a threat to human health or the environment and generally would not be the subject of an

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enforcement action if brought to the attention of appropriate governmental agencies.

Separate and distinct from a REC are two other types of conditions that may be noted in a Phase I ESA: a controlled REC (CREC) and/or an historical REC (HREC).

A CREC is a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the current satisfaction of the applicable regulatory authority (for example, as evidenced by a no further action [NFA] letter or the equivalent, or meeting risk-based criteria established by the regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls, such as site use restrictions, activity and use limitations (AULs), institutional controls, or engineering controls.

An HREC is a REC from a past release of any hazardous substances or petroleum products that has occurred in connection with the Project Area and has been addressed to the satisfaction of the applicable regulatory authority (using current criteria) or meets the unrestricted residential use criteria established by the regulatory authority and applicable at the time of this Phase I ESA without subjecting the Project Area to any required controls.

In addition, Wood identified potential environmental concerns (PECs) with regard to surrounding properties. Wood defines a PEC as the possible presence of any hazardous substances or petroleum products on a property under conditions that indicate the possibility of an existing release, a past release, or a threat of a future release of any hazardous substances or petroleum products into structures on the property or into the ground, ground water, or surface water of the property.

#### 2.4 SIGNIFICANT DATA GAPS, EXCEPTIONS AND LIMITATIONS

# Exceptions and Limitations, including significant data gaps:

This report summarizes work performed to fulfill the process specified under ASTM Standard E 1527-13. The ASTM standard is intended to permit a user to satisfy one of the requirements to qualify for the federal CERCLA liability exemptions. Reasonable efforts were limited to observation of accessible areas, review of referenced public records, and the user interview. Wood was allowed full access to the open site areas and building exteriors and there were no obstructions to limit a visual review of the Project Area, except where noted in this Phase I ESA.

This report was prepared by Wood exclusively for the City of Charlotte. The quality of information, conclusions, and estimates contained herein is consistent with the level of effort involved in Wood services and based on: (1) information available at the time of preparation, (2) data supplied by outside sources, and (3) the assumptions, conditions,

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	and qualifications set forth in this report. This report is intended to be used by City of Charlotte for the Proposed Cross Charlotte Trail Project only, subject to the terms and conditions of its contract with Wood. Any other use of, or reliance on, this report by any third party is at that party's sole risk.  Environmental impairment of a property may result from many activities, such as illegal or unreported dumping, or the spilling of hazardous wastes or materials. The presence of contaminants at a particular property may not always be apparent, and the completion of a Phase I ESA in accordance with ASTM E 1527-13 cannot provide a guarantee that hazardous wastes or materials do not exist. The scope of services executed for this project does not include an audit for regulatory compliance, ecological resources, cultural resources, indoor air quality, industrial hygiene, health and safety, or high-voltage power lines. It also does not include a detailed condition survey for asbestos, lead, radon, lead in drinking water, or other potential hazards or for wetlands, naturally occurring materials, or other items not outlined in Wood's scope of services.
	The findings contained herein are relevant to the date of Wood's site reconnaissance and should not be relied upon to represent conditions at later dates. In the event that changes in the nature, usage, or layout of the property or nearby properties are made, the conclusions and recommendations contained in this report may not be valid. If additional information becomes available, it should be provided to Wood so the original conclusions and recommendations can be modified as necessary.
	Regardless of findings stated in this Phase I ESA, Wood is not responsible for consequences of conditions arising from facts that were withheld or not fully disclosed to Wood during this Phase I ESA.
	This report does not address permit compliance or safety concerns, if any, associated with the Project Area. It is the responsibility of the user of this Phase I ESA to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.
Weather-related Property restrictions:	None
Facility access restrictions:	No facility access restrictions were encountered.

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# 3.0 PROPERTY DESCRIPTION

### 3.1 PROPERTY LOCATION

Property Name	Proposed Cross Charlotte Trail
Property Street Addresses	Mallard Creek Church Road to Pavilion Boulevard

# 3.2 PROPERTY DESCRIPTION

The following property information was obtained by a review of the Mecklenburg County Property Ownership and Land Records Information System (POLARIS), Wood's general knowledge of the Project Area vicinity and our site observations.

Property Description	Address	Parcel ID	Acreage	Structures	Other Improvements
Proposed Charlotte Cross Trail	Mallard Creek Church Road to Pavilion Boulevard	051-032-06 051-021-03A 051-032-33 051-032-04 051-033-06 051-033-02 051-041-01 051-033-05 051-021-01 051-021-08 051-021-02	74.8	None	Paved parking lot at Kirk Farm Park
Estimated percentage of property covered by buildings and/or pavements:	<1%, Kirk Farm Park's pa	rking is paved wit	thin the Project	t Area.	
Current property operations:	None				
Type and age of sewage	Charlotte Water municipa sewer line right-of-way, r Area				

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disposal system:	
Potable water source:	Charlotte Water municipal system
Electric utility:	Duke Energy
Natural gas:	Piedmont Natural Gas
Energy source(s) for heating:	None
Current uses of adjoining properties:	Adjoining properties to the northwest are occupied by Queen's Grant Mobile Home Park (124 Carnival St), Public Storage (11020 Morningstar PI Dr), North Tryon Street followed by Cortland University North (100 Heritage Pointe Road) and Speedway Gas Station (10207 North Tryon Street). Properties to the northeast are occupied by PNC Music Pavilion (707 Pavilion Blvd), Regal Starlight (11240 N Tryon St), CVS (11430 N Tryon St) and QuickTrip (11230 N Tryon St). Properties to the southeast are occupied by Mallard Creek Quarry (575 East Mallard Creek Church Road). Properties to the southwest are occupied by Kirk Farm Fields (210 East Mallard Creek Church Road) and Shell Gas Station (10000 N Tryon St).

# 3.3 PHYSICAL SETTING OF PROPERTY

Topography:	The Polaris website was examined in determination of the Project Area's elevation. The elevation at the Project Area ranges from approximately 572 to 586 feet above mean sea level (msl).	
Geology:	Based on a review of the North Carolina Geologic Map, the Project Area is located within the Charlotte Belt of the Piedmont physiographic province, which consists of low rounded hills and long rolling northeast to southwest trending ridges with incised creek channels. The Project Area is underlain by metamorphosed quartz diorite.	
Hydrogeology:	The general direction of groundwater flow can be inferred from ground surface elevations and expression of surface water as identified on the Mecklenburg County Polaris website. Surface water occurrences generally include permanent lakes, streams, and wetland areas. Based on Wood's review of topographic maps and observations of the Project Area vicinity, the Project Area's groundwater flow direction was inferred to be generally to the northeast toward Mallard Creek.	
Flood Plain:	The entire Project Area is located within a floodway as indicated on FEMA Flood Insurance Rate Map (FIRM) # 3710458700L dated November 16, 2018.	

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Depth to groundwater:	No previous data indicating groundwater depths at the Project Area were
	reviewed as part of this Phase I ESA.

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#### 4.0 USER-PROVIDED INFORMATION

For the purposes of this assessment, City of Charlotte is the user of this Phase I ESA report. In accordance with Section 6 of ASTM E 1527-13, the user of this Phase I ESA was informed that they were responsible for providing the following information to Wood's environmental professional for consideration during the assessment:

- Reasonably ascertainable title or judicial records related to environmental liens and AULs for the site;
- Actual knowledge from the user of any environmental liens or AULs;
- Specialized knowledge or experience of the user with regard to the site and activities thereon that may be material to any potential RECs;
- Information as to whether the purchase price of the site is lower than the fair market value due to contamination;
- Commonly known (within the local community) or reasonably ascertainable information regarding
  past releases, conditions indicative of releases, or threatened releases of hazardous substances or
  petroleum; and,
- Obviousness of the presence or likely presence of contamination at the property.

Wood provided the user with a questionnaire. The user questionnaire was completed by Mr. Steven Gucciardi, Project Manager with the City of Charlotte Environmental Services Division (User) and is included in **Appendix F**. The information obtained from the questionnaire is summarized in the sections below.

Land Title Records or Judicial Records identifying Environmental liens:	Mr. Gucciardi stated that he was not aware of environmental cleanup liens against the Project Area parcel that are filed or recorded under federal, tribal, state, or local law.
Land Title Records or Judicial Records identifying Activity and Use Limitations (AULs):	Mr. Gucciardi stated that he was not aware of AULs, such as engineering controls, land-use restrictions, or institutional controls, that are in place within the Project Area and/or have been filed or recorded in a registry under federal, tribal, state, or local law.
Specialized Knowledge or experience of the User	Mr. Gucciardi stated that he did not have specialized knowledge or experience related to the property or nearby properties.
Relationship of the purchase price to the fair market value of the property if it were not contaminated	Mr. Gucciardi stated that he was unaware of the purchase price being paid for the property.

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Commonly known or reasonably ascertainable information about the property	Mr. Gucciardi stated he was not aware of the past uses of the property. He was not aware of specific chemicals, spills or other chemical releases, or environmental cleanups at the Project Area.
The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation	Mr. Gucciardi stated that as the User of this Phase I ESA, there were no obvious indicators that point to the presence or likely presence of contamination at the property.

The following additional information is intended to assist the environmental professional but is not necessarily required to qualify for one of the landowner liability protections (LLPs).

Reason for Performing Phase I ESA	Identify recognized environmental conditions (RECs) associated with the site and to qualify for one of the landowner liability protections under CERCLA by performing all appropriate inquiry into the previous ownership and uses of the site in accordance with good commercial or customary practice. City of Charlotte has indicated that they requested the Phase I ESA because they are a prospective purchaser of the subject property.
Type of property and type of property transaction	The Project Area spans over residential, business and institutional types of property. Transfer of property ownership title.
Requirements beyond standard Phase I ESA ASTM 1527-13 scope of services	None requested
Site Contact	None Provided
Property plans and/or descriptions:	Development of the Cross Charlotte Trail
Special Terms and Conditions to be agreed upon by the Environmental Professional	None Provided
Previous Environmental Reports or other knowledge	None provided

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# 5.0 RECORDS REVIEW

### 5.1 REGULATORY AGENCY DATABASE RECORDS

Wood reviewed the results of a search of standard environmental records sources as required by ASTM Standard E 1527-13. EDR provided results of a regulatory agency database search in their report, which is included in **Appendix E**.

Below is a summary of EDR listings for the surrounding properties beyond the Project Area in distance up to 900 feet.

Facility Name	Facility Address	Database Listing	Gradient	Distance (feet) and Direction	Comments  Release from sanitary	REC determination
CMUD COLLECTION SYSTEM	MALLARD CREEK CHURCH RD	SPILLS	Same	Adjoining, SW	sewer system into Mallard Creek reported in October 2017.	
QuickTrip 1032	11230 N TRYON ST	UST, FINANCIAL ASSURANC E	Higher	179, NE	UST Facility ID: 00-0- 0000039968, reportedly 8 USTs located at the facility, no releases reported.	No REC
PETRO EXPRESS 57	10000 N TRYON ST	LUST, LUST TRUST, INST CONTROL, IMD	Lower	223, WSW	UST Incident # 27641, release identified in November 2003. Petroleum impacts to soil and groundwater identified. North Carolina Department of Environmental Quality (NCDEQ) issued NFA for the site following the completion of a Notice of Residual Petroleum for the facility (NRP) restricting groundwater use in October 2017. Further discussed in Section 5.1.1.	PEC
ACME RETAIL INC	10000 N TRYON ST	EDR HIST AUTO	Lower	223, WSW	Reportedly, facility was occupied by a gasoline service station from 1996 to 2012. No release reported.	No REC

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Facility Name	Facility Address	Database Listing	Gradient	Distance (feet) and Direction	Comments	REC determination
CIRCLE K 2723971	10000 N TRYON ST	UST, FINANCIAL ASSURANC E	Lower	223, WSW	UST Facility ID: 00- 00000031382. Reportedly, 4 USTs located at the facility, no releases reported.	No REC
SPEEDWAY # 7989	10207 N TRYON ST	LUST, LUST TRUST, UST, IMD, FINANCIAL ASSURANC E	Higher	351, W	UST Incident # 40810, release identified in February 2018. Petroleum impacts to soil identified. Incident remains open. Further discussed in Section 5.1.1.	PEC
NATIONAL TIRE & BATTERY #7328	10135 N TRYON ST	RCRA NONGEN/ NLR ECHO	Higher	378, WSW	EPA ID: NCR000136093, no RCRA violations reported.	No REC
EXXON MOBIL CORPORATIO N	10023 N TRYON ST	EDR HIST AUTO, RCRA NONGEN/ NLR	Higher	649, WSW	Reportedly, facility was occupied by a gasoline service station from 2007 to 2014. EPA ID: NCR000128206, No RCRA violations reported.	No REC
7-ELEVEN STORE 35588	10023 N TRYON ST	UST, FINANCIAL ASSURANC E	Higher	649, SWS	UST Facility Id: 00-0- 0000036327. Reportedly 4 USTs located at the facility, no releases reported.	No REC
MARTIN MARIETTA MATERIALS, INC./Mallard Creek Quarry	575 E MALLARD CREEK CHURCH RD	US MINES, RCRA- VSQG	Higher	704, S	Mine ID: 3102006, EPA ID: NCD986195782, No RCRA violations reported.	No REC
HERLOCKER'S PANTRY	10515 N TRYON ST	IMD, LUST, UST	Lower	736, N	UST Incident # 16870, release identified in March 1990. Soil impacts identified during UST removal. Impacted soil was removed from the facility. NCDEQ issued NFA for the incident in October 1990.	No REC
CVS PHARMACY #6518	11430 N TRYON ST	RCRA-LQG	Lower	815, NE	EPA ID: NCR000152785, no RCRA violations reported.	No REC

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## 5.1.1 Regulatory File Review

The ASTM E 1527-13 Standard indicates that it is necessary to review regulatory files maintained by local, state and/or federal agencies for the site and/or the adjoining or nearby properties that are identified on regulatory databases. Wood reviewed files obtained from the NCDEQ regarding the following nearby facilities to the site.

## 10000 North Tryon Street

Former Petro Express – UST Incident #27641

This facility is located approximately 223 feet to the west-southwest and upgradient of the nearest portion of the Project Area (**Figure 3**, **Item M**). Petroleum impacts to soil and groundwater were identified at the facility during a Site Check performed in November 2003. A Limited Site Assessment (LSA) was conducted at the facility in April 2004 which included the installation of three groundwater monitoring wells. Following the results of the seven additional monitoring wells were installed in January and September 2004 at the facility to delineate the groundwater contaminant plume. Laboratory analysis if the additional monitoring wells identified petroleum concentrations in the groundwater which exceeded the North Carolina 2L Groundwater Quality Standards (NC 2L Standards). However, the concentrations did not exceed the Gross Contaminant Levels (GCLs). In addition, groundwater elevations were measured in the 10 monitoring wells at the site and the groundwater flow direction was determined to be toward the east. Based on the petroleum concentrations present in the groundwater at the site, a Notice of Residual Petroleum (NRP) restricting the use of groundwater at the facility was filed in October 2017. Following the filing of the NRP, the NCDEQ issued No Further Action (NFA) for Incident #27641 in October 2017. Based on the regulatory status and documented presence of groundwater contamination at the facility, Wood considers Incident #27641 to be a PEC to the Project Area.

## 10207 North Tryon Street

Speedway #7989 - UST Incident #40810

This facility is located 351 feet west and upgradient of the nearest portion of the Project Area (**Figure 3**, **Item I**). Reportedly, three 10,000-gallon gasoline USTs and one 10,000-gallon diesel UST are located at the facility. A spill bucket failure was identified in January 2018 and Site Check consisting of soil sampling was performed in February 2018. Petroleum impacts to soil were identified during the February 2018 Site Check. As a result, the NCDEQ requested in a letter dated March 2019 that an LSA be performed at the site to assess for potential impacts to groundwater. At the time of this assessment, the incident remains in

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open status in the assessment phase. Based on regulatory status, Wood considers Incident #40810 to be a PEC to the Project Area.

These facilities are also shown on **Figure 4** as nearby facilities of concern.

### **5.1.2** Local Fire Department Records

Agency Contacted	Description of records
Wood submitted a request to the City of Charlotte Fire Department regarding records of hazardous materials responses or environmental incidents that have affected the Project Area.	To date, no response has been received from the Department. If a response is received that alters the conclusions of this report, Wood will issue an addendum to this report.

## 5.1.3 Local Health Department/State Environmental Agency Records

Agency Contacted	Description of records
Wood reviewed the Mecklenburg County Well Information System 4.0 on-line system for records of impacted properties.	One active water-supply well was identified on an adjoining property. One active water-supply well was identified on a nearby property. Two nearby properties were identified as properties with documented contamination incidents (Shell Gas Station and Speedway Gas Station). The Project Area was not identified on the Mecklenburg County Well Information System 4.0.

### 5.2 HISTORY

The tables below present a summary of the operational history of the Project Area and surrounding properties. The summary is an integration of the findings of the individual historical record sources provided by EDR presented in subsequent sections. Copies of the EDR Historical records are included in **Appendix D.** 

Summary of Project Area History				
Year(s)	Property Use			
1948 to 1988	Mixed use of farmland, cleared land and wooded land			

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1988 to	Wooded land and power transmission line easement
present	

Summa	Summary of History of Properties in Surrounding Area				
Year	Past Surrounding Property Use(s)				
	Northeast	Southeast	Southwest	Northwest	
Late 1940s to 1950	Farmland, Wooded land	Farmland, Wooded land	Farmland, Wooded land	Farmland, Wooded land	
1950s to mid-1960s	Farmland, Wooded land, Residences	Farmland, Wooded land, Residences	Farmland, Wooded land	Farmland, Wooded land, Residences	
Mid-1960s to late 1960s	Farmland, Wooded land, Residences	Farmland, Wooded land, Residences, Mallard Creek Quarry	Farmland, Wooded land	Farmland, Wooded land, Residences	
Late 1960s to early 1980s	Farmland, Wooded land, Residences	Farmland, Wooded land, Residences, Mallard Creek Quarry	Farmland, Wooded land	Farmland, Wooded land, Mobile Home Park	
Early 1980s to early 1990s	Cleared land, Wooded land, Residences	Wooded land, Mallard Creek Quarry	Cleared land, Wooded land	Cleared land, Wooded land, Mobile Home Park	
Early 1990s to mid-2000s	Cleared land, Wooded land, Residences, PNC Music Pavilion	Wooded land, Mallard Creek Quarry	Cleared land, Wooded land, Shell Gas Station	Cleared land, Wooded land, Mobile Home Park, Speedway Gas Station	

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Summary of History of Properties in Surrounding Area				
Mid-2000s to late 2000s	Cleared land, Wooded land, Residences, PNC Music Pavilion, Regal Starlight	Wooded land, Mallard Creek Quarry	Cleared land, Wooded land, Shell Gas Station	Cleared land, Wooded land, Mobile Home Park, Public Storage Speedway Gas Station
Late 2000s to early 2010s	Cleared land, Wooded land, Residences, PNC Music Pavilion, Regal Starlight, CVS	Wooded land, Mallard Creek Quarry	Cleared land, Wooded land, Shell Gas Station	Cleared land, Wooded land, Mobile Home Park, Public Storage, Speedway Gas Station
Early 2010s to current	Cleared land, Wooded land, Residences, PNC Music Pavilion Regal Starlight, CVS, QuickTrip	Wooded land, Mallard Creek Quarry	Cleared land, Wooded land, Shell Gas Station	Cleared land, Wooded land, Mobile Home Park, Public Storage, Cortland University North apartments, Speedway Gas Station

# 5.2.1 Aerial Photographs

Year	Direction	Observations
1040	Project Area	Mixed use of farmland, cleared land and wooded land
1948	Northeast	Farmland, Wooded land
	Southeast	Farmland, Wooded land

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Year	Direction	Observations
	Southwest	Farmland, Wooded land
	Northwest	Farmland, Wooded land
	Project Area	Mixed use of farmland, cleared land and wooded land
1951 &	Northeast	Farmland, Wooded land, Residences
1956	Southeast	Farmland, Wooded land, Residences
	Southwest	Farmland, Wooded land
	Northwest	Farmland, Wooded land, Residences
	Project Area	Mixed use of farmland, cleared land and wooded land
	Northeast	Farmland, Wooded land, Residences
1965	Southeast	Farmland, Wooded land, Residences, Mallard Creek Quarry (575 E Mallard Creek Church Rd)
	Southwest	Farmland, Wooded land
	Northwest	Farmland, Wooded land, Residences
	Project Area	Mixed use of farmland, cleared land and wooded land
	Northeast	Farmland, Wooded land, Residences
1968, 1971, 1976, 1983	Southeast	Farmland, Wooded land, Residences, Mallard Creek Quarry (575 E Mallard Creek Church Rd)
	Southwest	Farmland, Wooded land
	Northwest	Farmland, Wooded land, Mobile Home Park (124 Carnival St)
	Project Area	Wooded land and power transmission line easement
	Northeast	Cleared land, Wooded land, Residences
1988	Southeast	Wooded land, Mallard Creek Quarry (575 E Mallard Creek Church Rd)
	Southwest	Cleared land, Wooded land
	Northwest	Cleared land, Wooded land, Mobile Home Park (124 Carnival St)

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Year	Direction	Observations
	Project Area	Wooded land and power transmission line easement
	Northeast	Cleared land, Wooded land, Residences, PNC Music Pavilion (707 Pavilion Blvd)
1993, 1996	Southeast	Wooded land, Mallard Creek Quarry (575 E Mallard Creek Church Rd)
	Southwest	Cleared land, Wooded land
	Northwest	Cleared land, Wooded land, Mobile Home Park (124 Carnival St), Cortland University North apartments (100 Heritage Pointe Rd)
	Project Area	Wooded land and power transmission line easement
	Northeast	Cleared land, Wooded land, Residences, PNC Music Pavilion (707 Pavilion Blvd), Regal Starlight (11240 N Tryon St)
2006	Southeast	Wooded land, Mallard Creek Quarry (575 E Mallard Creek Church Rd)
	Southwest	Cleared land, Wooded land
	Northwest	Cleared land, Wooded land, Mobile Home Park (124 Carnival St), Public Storage (11020 Morningstar Pl Dr), Cortland University North apartments (100 Heritage Pointe Rd)
	Project Area	Wooded land and power transmission line easement
	Northeast	Cleared land, Wooded land, Residences, PNC Music Pavilion (707 Pavilion Blvd), Regal Starlight (11240 N Tryon St), CVS (11430 N Tryon St)
2009, 2012	Southeast	Wooded land, Mallard Creek Quarry (575 E Mallard Creek Church Rd)
	Southwest	Cleared land, Wooded land
	Northwest	Cleared land, Wooded land, Mobile Home Park (124 Carnival St), Public Storage (11020 Morningstar Pl Dr), Cortland University North apartments (100 Heritage Pointe Rd)
	Project Area	Wooded land and power transmission line easement
2016	Northeast	Cleared land, Wooded land, Residences, PNC Music Pavilion (707 Pavilion Blvd), Regal Starlight (11240 N Tryon St), CVS (11430 N Tryon St), QuickTrip (11230 N Tryon St)
	Southeast	Wooded land, Mallard Creek Quarry (575 E Mallard Creek Church Rd)

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Year	Direction	Observations
	Southwest	Cleared land, Wooded land
	Northwest	Cleared land, Wooded land, Mobile Home Park (124 Carnival St), Public Storage (11020 Morningstar Pl Dr), Cortland University North apartments (100 Heritage Pointe Rd)

## **5.2.2 City Directories**

Below is a summary of city directory listings for project area and adjoining properties:

	Project Area	
Date	Cross Charlotte Trail (Mallard Creek Church Road to Pavilion	
	Boulevard)	
The Project Area addresses were not listed within the EDR City Directory database		

Adjoining Properties			
Street Number	Street	Year(s)	Listing
		1999	Handy Pantry Food Store Inc
		2004	ACME Retail Inc
10000		2014	Petro Express
		2017	Redbox, Kangaroo, Handy Pantry Food Stores Inc.
10023	North Tryon Street	2009	Exxon Mobile On the Run Cafe
10023	-	2014	Sam's Mart
10110		1994	Take A Break Inc.
		1999, 2004	Wilco Food Mart
10207		2009	Wilco Hess, LLC
		2017	Dunkin Donuts, Speedway, Redbox
10000	US Hwy 29	2005	Handy Pantry Food Store

## 5.2.3 Property Ownership Files

Parcel ID	Current Owner	Address #	Roadway
051-032-06	Mecklenburg County, C/O Rel Estate/Finance Department	NA	NA
051-021-03A	State of North Carolina	NA	NA
051-032-33	Pavilion Partners,	NA	NA

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	C/O Pace Entertainment Corporation		
051-032-04	Martin Marietta Materials Inc., C/O Baden Tax Management	11208	North Tryon Street
051-033-06	Martin Marietta Materials Inc., C/O Baden Tax Management	NA	NA
051-033-02	PS NC I LP	11020	Morningstar Place Drive
051-041-01	Martin Marietta Materials Inc., C/O Baden Tax Management	575	East Mallard Creek Church Road
051-033-05	CHR VIII-PCP MHC Charlotte Queens LLC	124	Carnival Street
051-021-01	Martin Marietta Materials Inc., C/O Baden Tax Management	10600	North Tryon Street
051-021-08	Mecklenburg County, C/O Rel Estate/Finance Department	NA	NA
051-021-02	James Frost Alexander, Susan Burr Alexander Boone, C/O Stella Alexander Harman, John William Alexander	10400	North Tryon Street
051-021-09	Mecklenburg County, C/O Real Estate/ Finance	201	East Mallard Creek Church Road

# **5.2.4 Building Department Records**

Year	Description
	Building department records were not reviewed for the Project Area. No structures were identified within the Project Area.

# 5.2.5 Zoning/Land Use Records

Property/Vicinity	Observation
	B-1 – Business (neighborhood business)
Project Area	R-3 – Single Family (3.0 units per acre)
	R-MH – Residential (mobile home)
CC- Commercial Center (minimum of five acres)	
	B-D(CD) – Business Distributive (conditional use – no minimum lot size)
Northeast	R-MH – Residential (mobile home)
	CC- Commercial Center (minimum of five acres)

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Property/Vicinity	Observation
	D 2 Cively Feet 1 (20 city occurs)
	R-3 – Single Family (3.0 units per acre)
	NS – Neighborhood service district (max floor area ratio 2.0)
Southeast	R-3 – Single Family (3.0 units per acre)
Southeast	O-1 (CD) – Office District ( max floor area ratio: 0.60, conditional zoning)
	I-2(CD) – Industrial (general industrial, conditional zoning)
	B-1 – Business (neighborhood business)
	B-1(CD) – Business (neighborhood business, conditional zoning)
Southwest	INST - Institutional
	R-17MF (CD) – Multi-family (17.0 units per acre, conditional zoning)
	R-17MF – Multi-family (17.0 units per acre)
	I-2(CD) – Industrial (general industrial)
	R-MH – Residential (mobile home)
Northwest	B-D(CD) – Business Distributive (conditional use – no minimum lot size)
	O-1(CD) – Office District ( max floor area ratio: 0.60)
	R-12MF(CD) – Multi-family (12.0 unit per acre, conditional zoning)

The source of this zoning information was from POLARIS.

## **5.2.6** Historical Fire Insurance Maps

Year	Direction	Observations
		Fire Insurance Maps were unavailable for the Project Area

# 5.2.7 Historical Topographic Maps

Year	Direction	Observations
	Project Area	
	Northeast	
1942	Southeast	No structures or roadways depicted
	Southwest	
	Northwest	
	Project Area	Agricultural, cleared land, no structures
1949	Northeast	Agricultural, cleared land, residences
	Southeast	Agricultural, cleared land, no structures
	Southwest	Agricultural, cleared land, no structures

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Year	Direction	Observations
	Northwest	Agricultural, cleared land, residences
	Project Area	Agricultural, cleared land, no structures
	Northeast	Agricultural, cleared land, residences
1969	Southeast	Quarry, agricultural, residences
	Southwest	Agricultural, cleared land, no structures
	Northwest	Agricultural, sewage disposal, residences
	Project Area	Agricultural, cleared land, no structures
	Northeast	Agricultural, cleared land, residences
1988	Southeast	Quarry, agricultural, residences
	Southwest	Agricultural, cleared land, no structures
	Northwest	Agricultural, sewage disposal, trailer park, residences
	Project Area	Agricultural, cleared land, no structures
	Northeast	Agricultural, cleared land, residences
1996	Southeast	Quarry, agricultural
	Southwest	Agricultural, cleared land, residences
	Northwest	Agricultural, sewage disposal, trailer park, residences
	Project Area	
	Northeast	
2013	Southeast	No structures depicted, only roadways
	Southwest	
	Northwest	

# 5.2.8 Other Historical Records

Wood was not provided with other historical records.

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## 6.0 SITE RECONNAISSANCE

Mr. Derick Haydin of Wood completed a site reconnaissance on April 17, 2020, observing the general site conditions and operations on the Project Area. Wood was unaccompanied during the site visit. This section presents the findings of the site reconnaissance. These observations pertain to the general conditions of the physical land, including location and presence of any ponded water, wetlands, stained and stressed vegetation, monitoring wells, wastewater, and solid or liquid waste.

On the day of the April 17, 2020 site reconnaissance, the weather conditions were approximately 70 degrees (F) and sunny. Photographs were taken of notable Project Area features and are included in **Appendix C**.

#### 6.1 METHODOLOGY

The Project Area was visually and/or physically observed from the periphery, including adjacent public thoroughfares, and then systematically traversed to view features within the Project Area.

#### 6.2 SITE RECONNAISSANCE OBSERVATIONS

#### 6.2.1 Property Representative Escorting Site Assessor

Name of Property representative and relationship to the Property	Company	Title	Years of Experience with Property and Other Site Qualifications
No Escort			

#### 6.2.2 Interior Observations

Issue	Comments
Hazardous materials or petroleum products	No structures were observed, and no interiors were observed.
Hazardous waste	
Solid waste	

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Issue	Comments
Wells	
Process wastewater	
Drains, sumps, and drywells	
Odors	
Stains and/or corrosion	No structures were observed, and no interiors were observed.
Pools of liquid	
PCB-containing equipment	
General interior housekeeping	

## **6.2.3** Exterior Observations

Issue	Comments
Hazardous materials or petroleum products	No evidence of hazardous materials or petroleum products was observed within the Project Area
Hazardous waste	None observed
Solid waste	Minor household trash observed on the site.
Wells	None
Process wastewater	Sewer manholes and lines were observed throughout the site.
Storm water	None
Drains, sumps, and drywells	None
Odors	None
PCB-containing equipment	One pole mounted transformer was observed in the Project Area.
Pits, ponds, and lagoons: Property	Mallard Creek was observed throughout the site.

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Issue	Comments
Pits, ponds, lagoons: Adjoining Properties	None
Stained soil or pavement	None
Stressed vegetation	None
General exterior yard keeping	Minor household trash observed throughout Project Area.

# **6.2.4 Underground Storage Tanks/Structures**

Existing USTs:	No evidence of existing USTs was observed or reported.
Former USTs:	No evidence of former USTs was observed or reported.

## 6.2.5 Aboveground Storage Tanks

Existing ASTs:	None observed within the Project Area.
Former ASTs:	No evidence of former ASTs was observed or reported.

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## 7.0 INTERVIEWS

## 7.1 CURRENT OWNER/OPERATOR INTERVIEWS

Wood was not provided with owner contact information for the Project Area parcels. The lack of an owner interview represents a data gap. However, based on the nature of the property uses (undeveloped wooded or residential) this data gap is not considered significant.

## 7.2 PAST PROPERTY OWNER/OPERATOR INTERVIEW

Wood was not provided contact information for the past property owners or operators.

#### 7.3 LOCAL GOVERNMENT OFFICIAL INTERVIEWS

Wood submitted a request to the City of Charlotte Fire Department regarding records of hazardous materials responses or environmental incidents that have affected the site. To date, no response has been received from the Department. If a response is received that alters the conclusions of this report, Wood will issue an addendum to this report.

#### 7.4 STATE GOVERNMENT OFFICIAL INTERVIEWS

No state government officials were interviewed.

#### 7.5 Interview with Neighboring Owners or Occupants

According to ASTM E-1527-13 Section 10.5.5, interviews with one or more owners or occupants of neighboring or nearby properties shall be conducted for an abandoned site where there is evidence of potential unauthorized uses of the abandoned site or evidence of uncontrolled access to the abandoned site. No evidence of unauthorized uses or potential dumping or trespassing was observed on the site. Therefore, Wood did not conduct interviews with neighboring property owners or occupants.

#### 7.6 OTHER INTERVIEWS

No other interviews were attempted for this assessment.

## 8.0 OTHER ENVIRONMENTAL CONSIDERATIONS

Wood did not provide additional services outside the Scope of Services as described in Section 2.2 of this report.

## 8.1 ASBESTOS-CONTAINING MATERIAL (ACM)

An assessment for the presence of ACM was not conducted. No structures were observed within the Project Area.

#### 8.2 RADON

According to EPA's map of radon zones in North Carolina, Mecklenburg County is located in Federal Environmental Protection Agency (EPA) radon zone 3, with predicted average indoor radon screening levels less than 2 picocuries per liter (pCi/L). Federal area radon information indicates that 46 radon test locations in Mecklenburg County reported an average radon level of 0.569 pCi/L on the 1<sup>st</sup> floor living areas, 0.900 pCi/L not reported on the 2<sup>nd</sup> floor living areas, and 1.278 pCi/L in the basement areas. No other data related to radon were supplied in the EDR Radius Map report.

## 8.3 POTABLE WATER QUALITY

Potable water is provided to the Project Area by Charlotte Water. Charlotte Water obtains its drinking water from Mountain Island Lake and Lake Norman, which are part of the Catawba River Basin. Based on review of the 2019 Water Quality Report for Charlotte Water, the municipal water is in compliance with current EPA regulations.

#### 8.4 LEAD-BASED PAINT (LBP)

An assessment for the presence of LBP was not conducted. No structures were observed within the Project Area.

### 8.5 ENDANGERED SPECIES

Wood reviewed the US Fish and Wildlife Service (FWS) Information, Planning and Conservation System (IPaC) on May 5, 2020 to evaluate the documented presence of endangered species at the Project Area, as defined and regulated by the Endangered Species Act. According to the FWS IPaC system, no critical habitats are present in the Project Area. The following threatened or endangered species are listed as having the potential of being present in the Project Area:

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Species	Status
Mammal – Northern Long-eared Bat	Threatened
Clam – Carolina Heelsplitter	Endangered
Flowering Plant – Michaux's Sumac	Endangered
Flowering Plant – Schweinitz's Sunflower	Endangered
Flowering Plant – Smooth Coneflower	Endangered

Also according to the FWS IPAC system the following Migratory Birds of Concern are listed as being potentially impacted by project activities:

Species	Seasonal Occurrence in Site Area
Bald Eagle	Year-round
Blue-winged Warbler	Breeding
Cerulean Warbler	Breeding
Kentucky Warbler	Breeding
Prairie Warbler	Breeding
Prothonotary Warbler	Breeding
Red-headed Woodpecker	Breeding
Rusty Blackbird	Wintering
Wood Thrush	Breeding

A formal protected species survey was not conducted at the Project Area.

#### 8.6 WETLANDS

Wood reviewed the US FWS National Wetlands Inventory (NWI) mapper on-line service on May 5, 2020 to evaluate the documented presence of apparent Waters of the USA and jurisdictional wetlands, as defined and regulated by US Code of Federal Regulation 33 CFR Parts 320-330. This review may not identify state and/or locally designated wetlands. Based on a review of the FWS NWI mapper, two types of wetlands (PSS1C and PFO1A) and three riverine habitats (R2UBH, R2UBHx and R4SBC) were identified within the project area. The adjoining parcels contain five types of wetlands (PFO1Fh, PFO1A, PFO1C, PSS1C, PEM1A and PEM1Ch) three riverine habitats (R2UBH, R4SBC and R5UBH) and one freshwater pond habitat (PUBHh). Mallard Creek was identified throughout the project area.

## 8.7 ARCHAEOLOGICAL RESOURCES/HISTORIC SITES AND STRUCTURES

Wood reviewed the State Historic Preservation Office's (SHPO) historical listings for the area and surrounding properties on May 5, 2020. No listings of archaeological or historic sites were identified within the Project Area or adjoining properties.

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## 8.8 RECREATIONAL AREAS

Kirk Farm Fields Park is located within the southwest portion of the Project Area.

## 8.9 VAPOR ENCROACHMENT

No potential sources of vapor encroachment were identified in the project area.

## 8.10 OTHER NON-SCOPE CONSIDERATIONS

No other environmental considerations outside the Scope of Services were assessed related to the Project Area.

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## 9.0 FINDINGS AND OPINIONS

Wood has performed this Phase I ESA in general conformance with the scope and limitations of ASTM Standard E 1527-13 for the site identified as Cross Charlotte Trail located in Charlotte, Mecklenburg County, North Carolina. The findings are summarized as follows:

Based on our review of historical records and regulatory information, Wood did not identify historical recognized environmental conditions (HRECs)

Based on the regulatory status and documented presence of groundwater contamination at the Former Petro Express facility, Wood considers Incident #27641 to be a PEC to the Project Area.

Based on documented soil contamination of petroleum constituents at the Speedway #7989, distance from the Project Area, Wood considers Incident #40810 to be a PEC to the Project Area.

However, based on the proposed project activities, including shallow excavation of soil and the installation of the trail, Wood does not expect the incidents at these facilities to negatively affect the proposed project.

No de minimis conditions were identified during the completion of this Phase I ESA.

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## 10.0 CONCLUSIONS AND RECOMMENDATIONS

Wood has performed a Phase I Environmental Site Assessment (ESA) in conformance with the scope and limitations of ASTM Standard E 1527-13 for the Project Area identified as Proposed Cross Charlotte Trail located in Charlotte, Mecklenburg County, North Carolina. Exceptions to, or deviations from, this practice are described in Section 2.4 of this report.

#### 10.1 CONCLUSIONS

Based on the results of this Phase I ESA, Wood's assessment has not revealed evidence of recognized environmental conditions (RECs) in connection with the Project Area.

Wood does not guarantee the site is free of contamination or hazardous waste material due to unknown or latent conditions that may become evident in the future, either on the site or on adjoining or nearby properties. In addition, site conditions might change over time. Should additional surface, subsurface, chemical, or other data become available after the date of issue of this report, the findings, conclusions, and recommendations contained herein may have to be modified. Review by Wood of such additional information would be conducted upon receipt of a written request from our client.

#### 10.2 RECOMMENDATIONS FOR ADDITIONAL INVESTIGATION

Wood does not recommend further investigation at this time.

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## 11.0 DEVIATIONS AND DATA GAPS

Wood did not deviate from the ASTM E 1527-13 standard in conducting this assessment. Wood was not provided with owner contact information for the Project Area parcels. The lack of an owner interview represents a data gap. However, based on the nature of the property uses (undeveloped wooded or residential) this data gap is not considered significant. No other data gaps were encountered during this assessment.

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# 12.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONAL(S)

I declare that, to the best of my professional knowledge and belief, I meet the definition of environmental professional as defined in Title 40 of the Code of Federal Regulations (CFR), Part 312.0. I have the specific qualifications based on education, training, and experience to assess a site of the nature, history, and setting of the subject site. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.

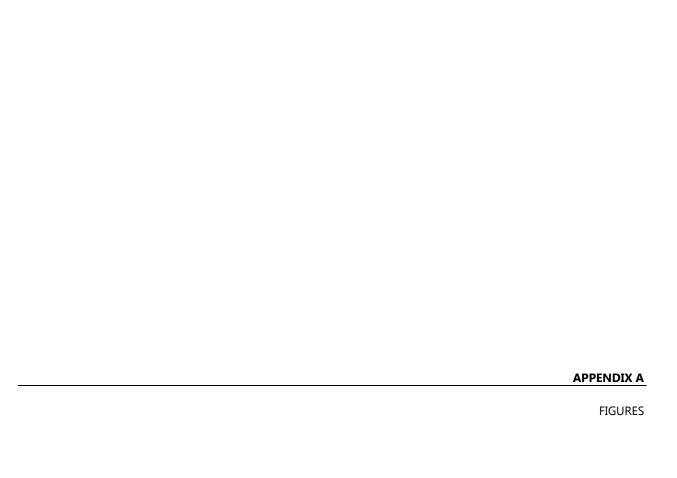
Matt Miller

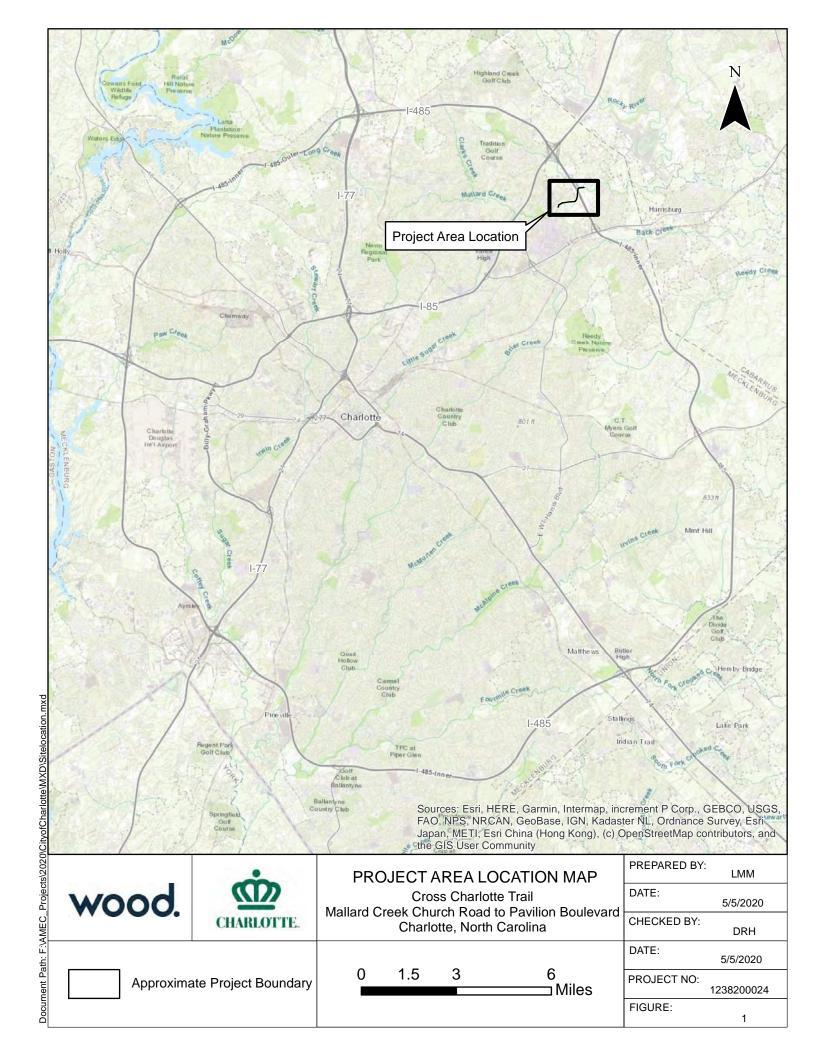
Senior Environmental Scientist

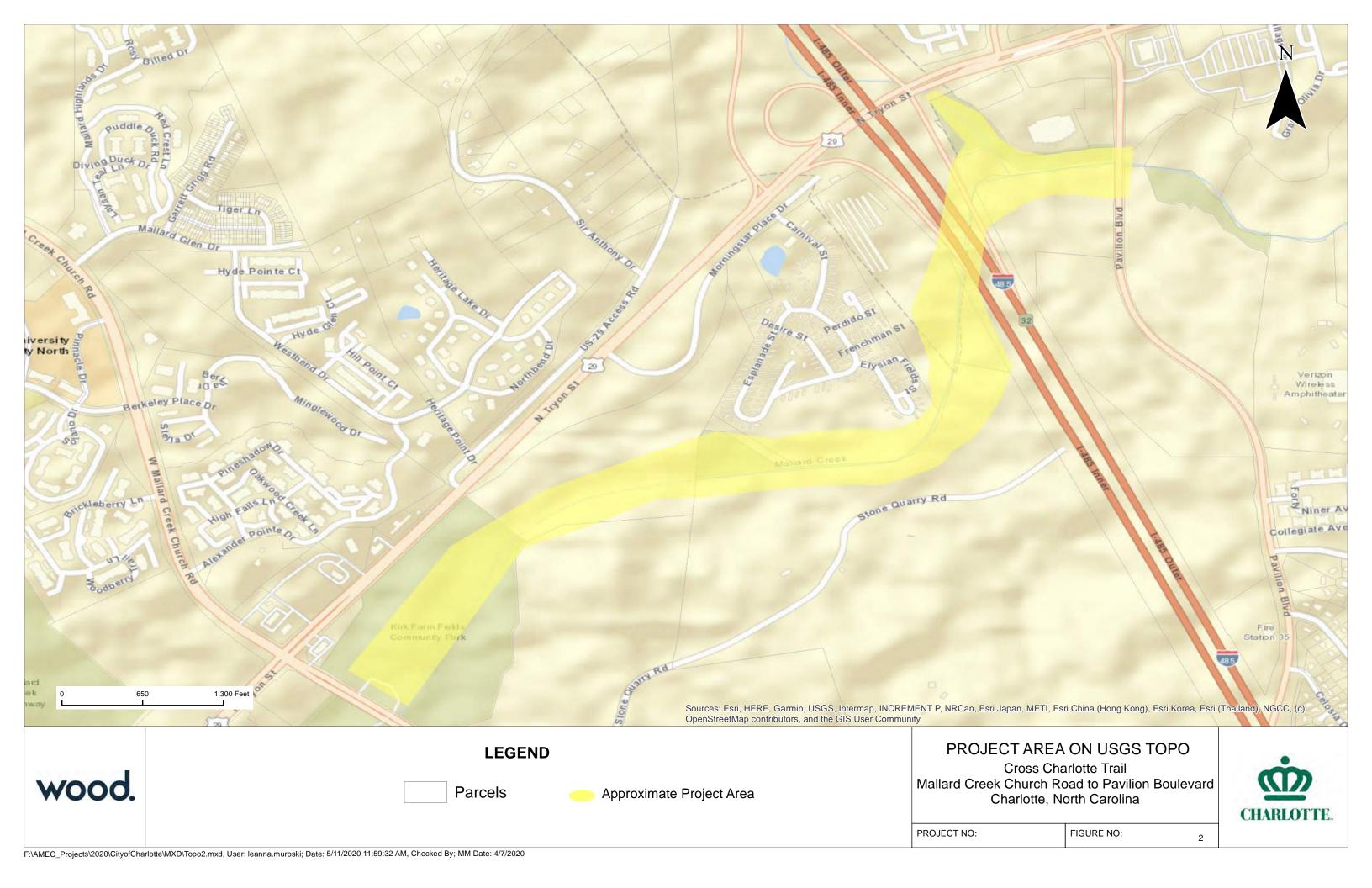
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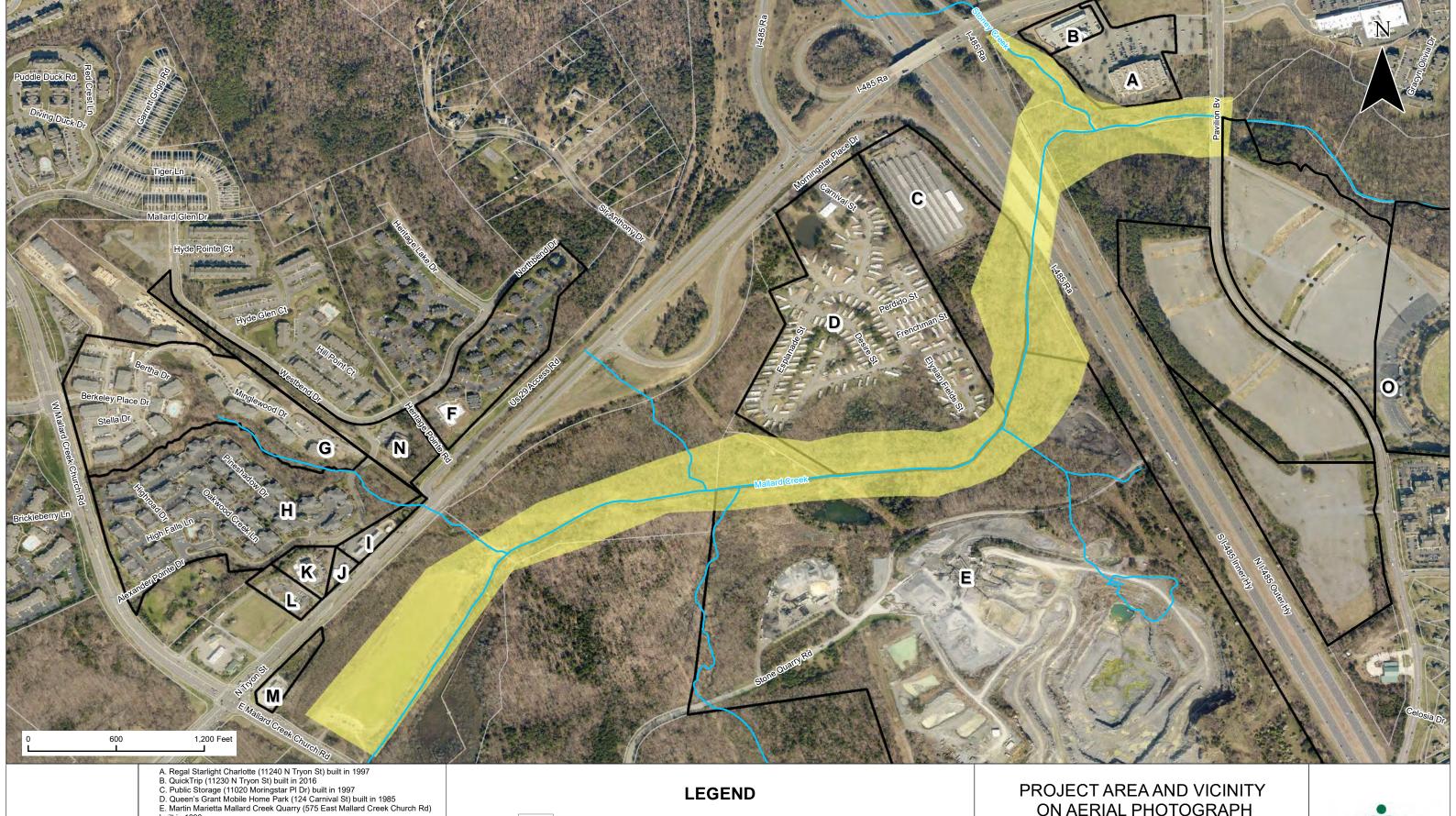
June 11, 2020

Date





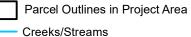


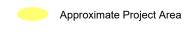




- E. Martin Marietta Mallard Creek Quarry (575 East Mallard Creek Church Robuilt in 1990
  F. Cortland University North (100 Heritage Pointe Rd) built in 1989
  G. Phillips Mallard Creek (655 W Mallard Creek Church Rd) built in 2012
  H. Highlands at Alexander Pointe (310 Highroad Dr) built in 2001
  I. Speedway (10207 N Tryon St) built in 1990
  J. Sherwin-Williams Paint Store (10201 N Tryon St) built in 1998
  K. NTB-National Tire & Battery (10135 N Tryon St) built in 2001
  L. Jack in the Box (10121 N Tryon St) built in 2001
  M. Shell (10000 N Tryon St) built in 1989
  N. APT Properties LLC (319 Westbend Drive) built in 2008
  O. PNC Music Pavillion (705 Pavillon Blvd.) built in 1991

# **Parcels**





# PROJECT AREA AND VICINITY ON AERIAL PHOTOGRAPH

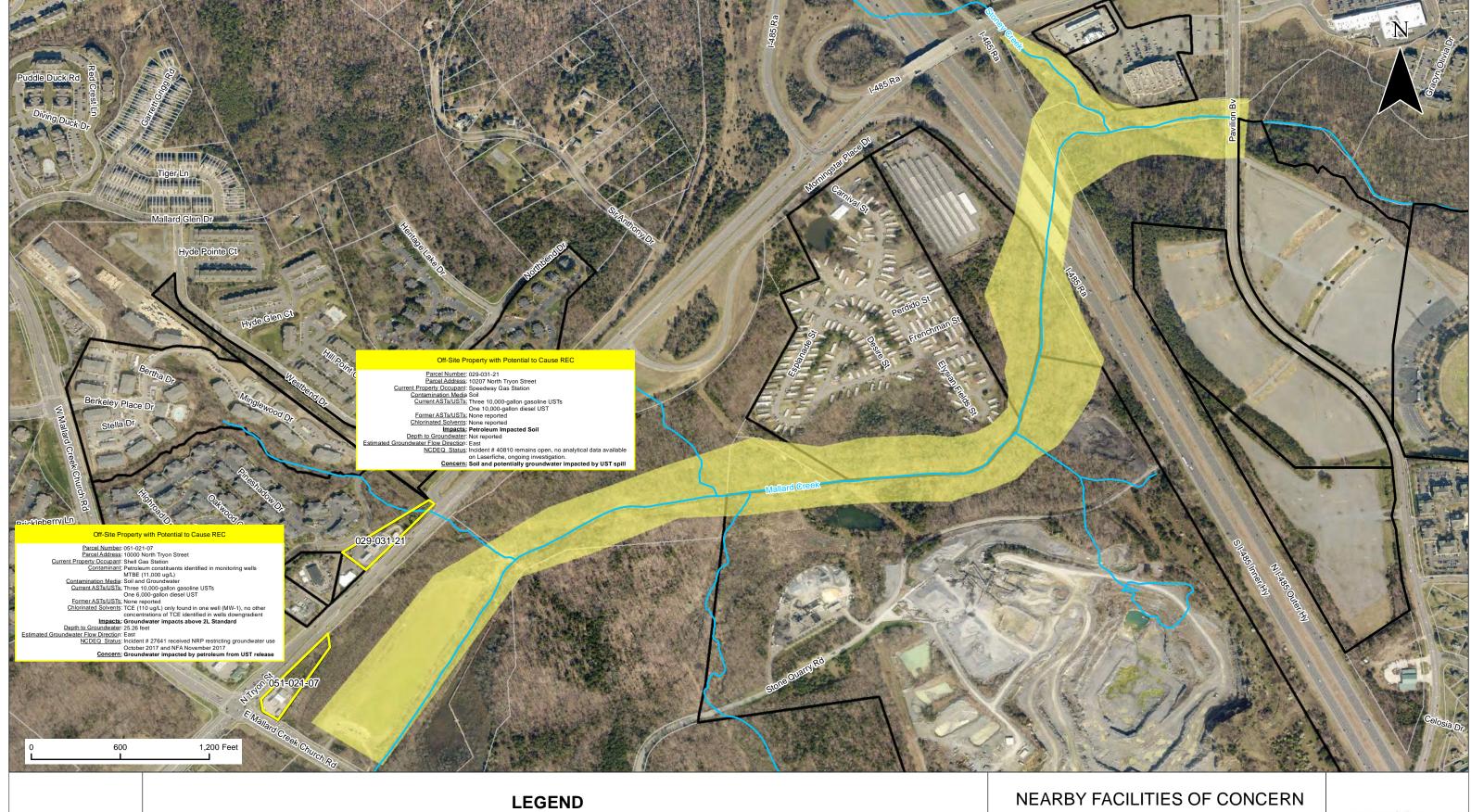
Cross Charlotte Trail Mallard Creek Church Road to Pavilion Boulevard Charlotte, North Carolina

PROJECT NO: 1238200024

FIGURE NO:

CHARLOTTE.

3



wood.

Parcels
Parcel Outlines in Project Area
Creeks/Streams
Approximate Project Area

Cross Charlotte Trail

Mallard Creek Church Road to Pavilion Boulevard

Charlotte, North Carolina



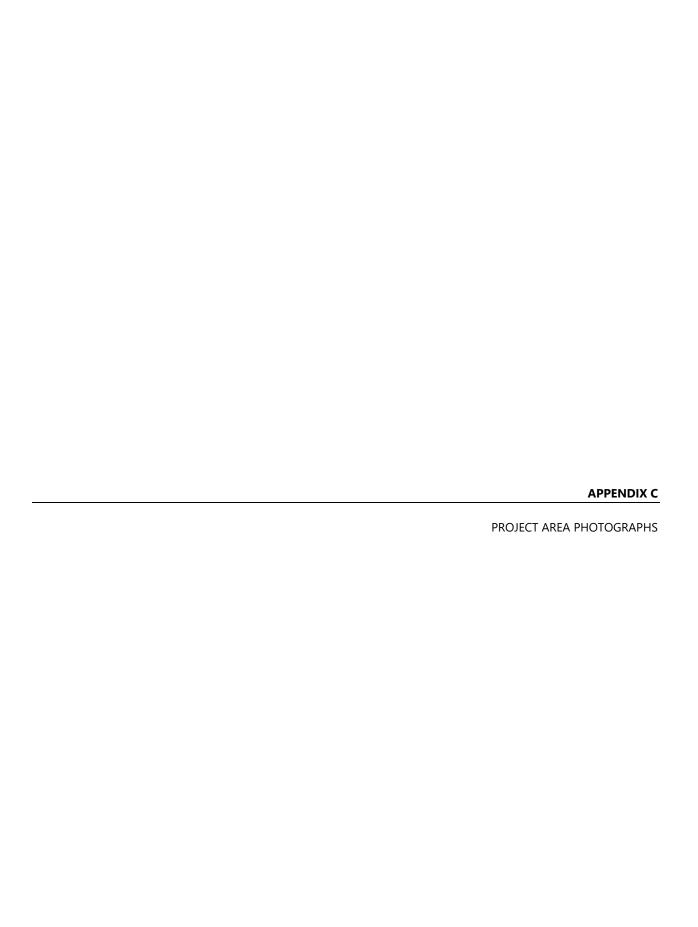
4

PROJECT NO: 1238200024 FIGURE NO:



Site <sup>(1)</sup>	Cost Effects <sup>(2)</sup>	Use Effects <sup>(3)</sup>	Risk Effects <sup>(4)</sup>
Cross Charlotte Trail – Mallard Creek Church Road to Pavilion Boulevard Charlotte, North Carolina (Undeveloped Property)	\$0	No land use restrictions identified.	No recognized environmental conditions identified

- 1. No comment is made regarding the marketability of a property or to fair market value.
- 2. The market may not recognize any and all potential costs but only those costs necessary to achieve regulatory compliance and reduce concentrations of hazardous materials to below the appropriate regulatory standard.
- 3. The appraiser should be aware that not all site use limitations will have an effect on market value and it is the market and its reaction, as borne out in actual market data, to these limitations that should be the primary focus of the appraiser's work in estimating Use Effects.
- 4. The appraiser is cautioned that not all uncertainty and increased concern and perceptions in the market may reduce property values, and that any analysis of Risk Effects and stigma must be based on actual data from the relevant market or submarket and should not be assumed to occur without such evidence.
- 5. No environmental due diligence effort can wholly eliminate all uncertainty regarding the potential for contamination in connection with a property.







**Photograph 1:** View of beneath Pavilion Boulevard facing northeast.



**Photograph 2:** View of transmission lines, facing southeast.





Photograph 3: View of downed tree facing south. Majority of the Project Area is covered in dense vegetation.



**Photograph 4:** View of household debris, facing south.





**Photograph 5:** View of Mallard Creek and beneath I-485 offramp facing north.



**Photograph 6:** View of Mallard Creek and beneath I-485 facing northwest.





**Photograph 7:** View of household debris, facing south.



**Photograph 8:** View of Mallard Creek, facing northeast.





**Photograph 9:** View of Mallard Creek, facing northwest.



Photograph 10: View of vegetation, riprap and danger sign near Mallard Creek, facing northwest.





**Photograph 11:** View of power line, facing north.



**Photograph 12:** View of pole-mounted transformer facing south.





Photograph 13: View of gravel road, vegetation, and metal gate.



**Photograph 14:** View of transmission lines, facing west.





**Photograph 15:** View of Kirk Farm Park, facing northeast.



**Photograph 16:** View of sewer line facing northeast.

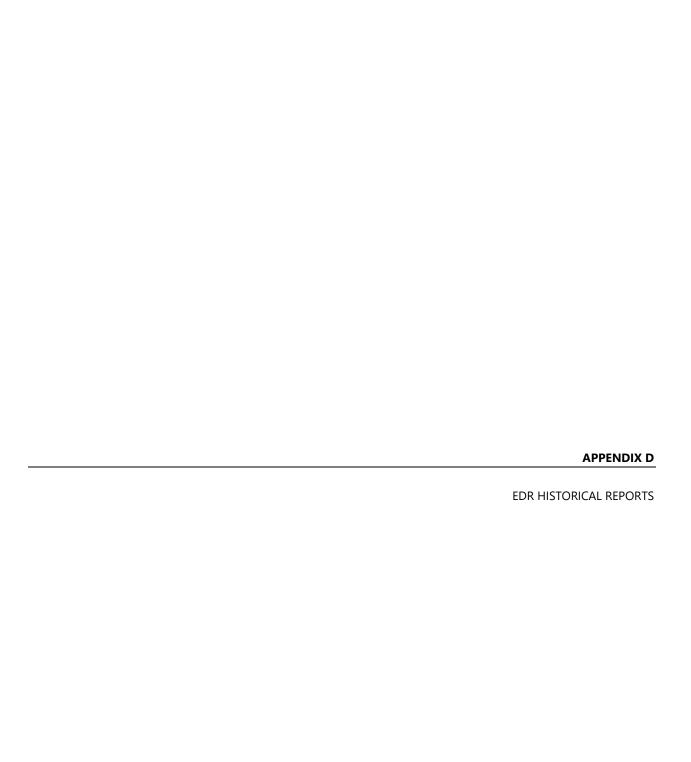




Photograph 17: View of debris jam in Mallard Creek, facing northeast.



**Photograph 18:** View of city sewer manhole, facing northeast.



# **XCLT Trail-Mallard Creek Church to Pavilion Blvd**

201 E Mallard Creek Church Road Charlotte, NC 28262

Inquiry Number: 6044495.8

April 21, 2020

# The EDR Aerial Photo Decade Package



# **EDR Aerial Photo Decade Package**

04/21/20

Site Name: Client Name:

XCLT Trail-Mallard Creek Chur 201 E Mallard Creek Church Ro Charlotte, NC 28262 EDR Inquiry # 6044495.8 Wood Environment & Infrastructure Solu 2801 Yorkmont Road Charlotte. NC 28208



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Contact: Matt Miller

#### Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	Source
2016	1"=625'	Flight Year: 2016	USDA/NAIP
2012	1"=625'	Flight Year: 2012	USDA/NAIP
2009	1"=625'	Flight Year: 2009	USDA/NAIP
2006	1"=625'	Flight Year: 2006	USDA/NAIP
1996	1"=625'	Flight Date: April 23, 1996	NCDOT
1993	1"=625'	Acquisition Date: January 28, 1993	USGS/DOQQ
1988	1"=625'	Flight Date: October 12, 1988	USDA
1983	1"=625'	Flight Date: March 03, 1983	USGS
1976	1"=625'	Flight Date: March 01, 1976	USGS
1971	1"=625'	Flight Date: March 18, 1971	USGS
1968	1"=625'	Flight Date: February 17, 1968	USDA
1965	1"=625'	Flight Date: February 02, 1965	USGS
1956	1"=625'	Flight Date: March 31, 1956	USDA
1951	1"=625'	Flight Date: February 05, 1951	ASCS
1948	1"=625'	Flight Date: May 15, 1948	USGS

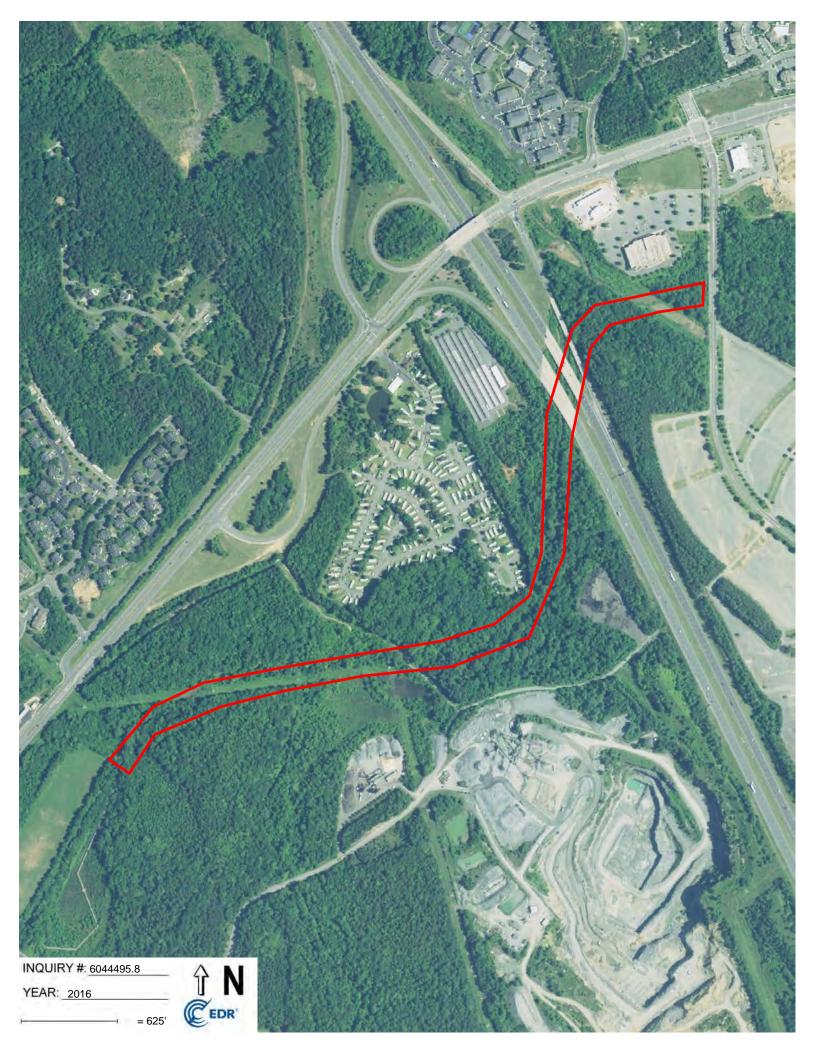
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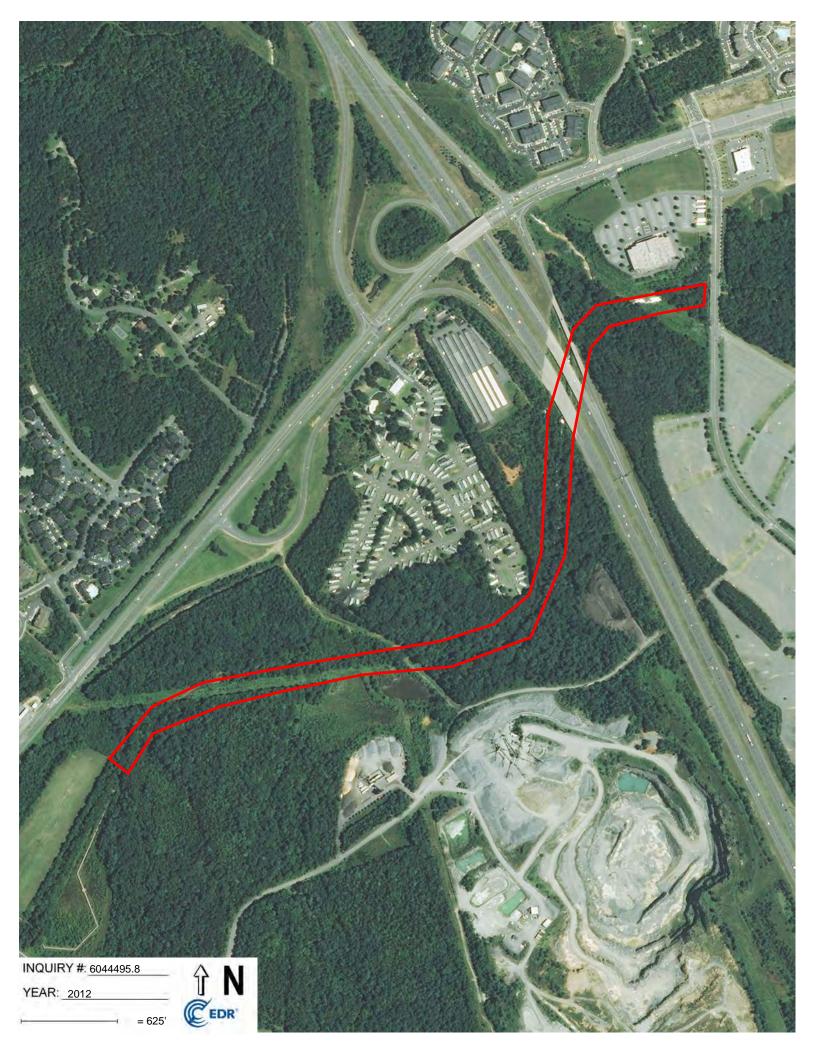
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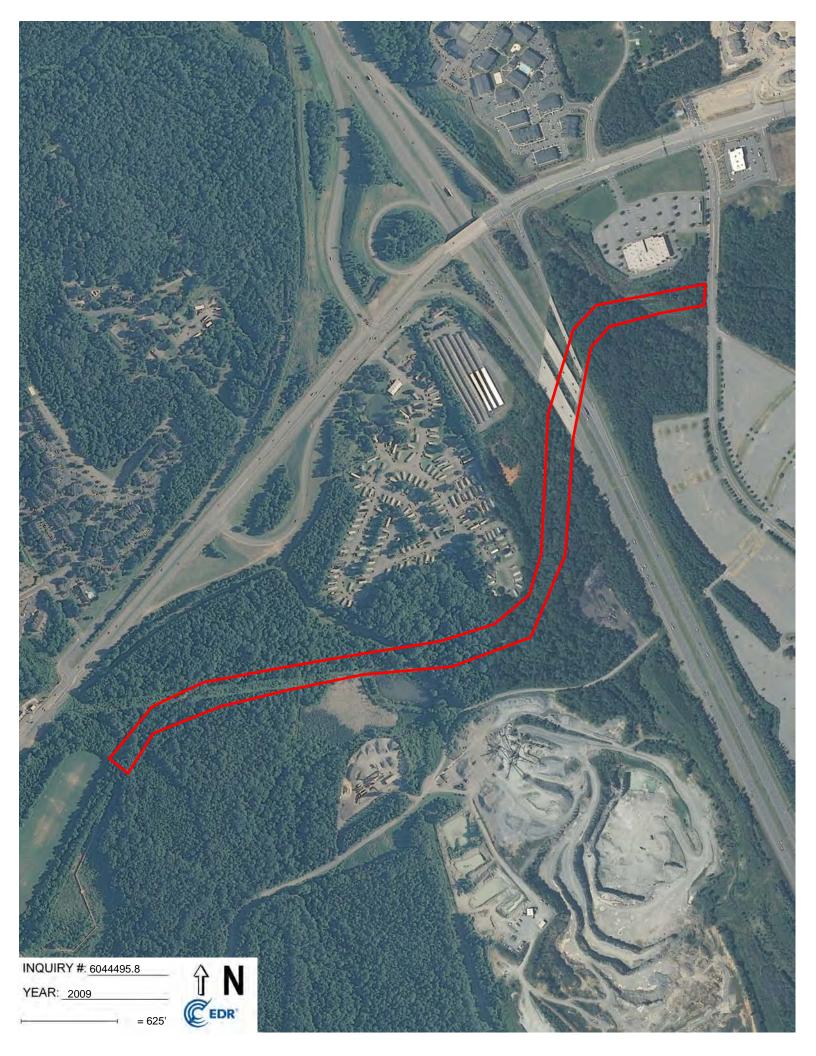
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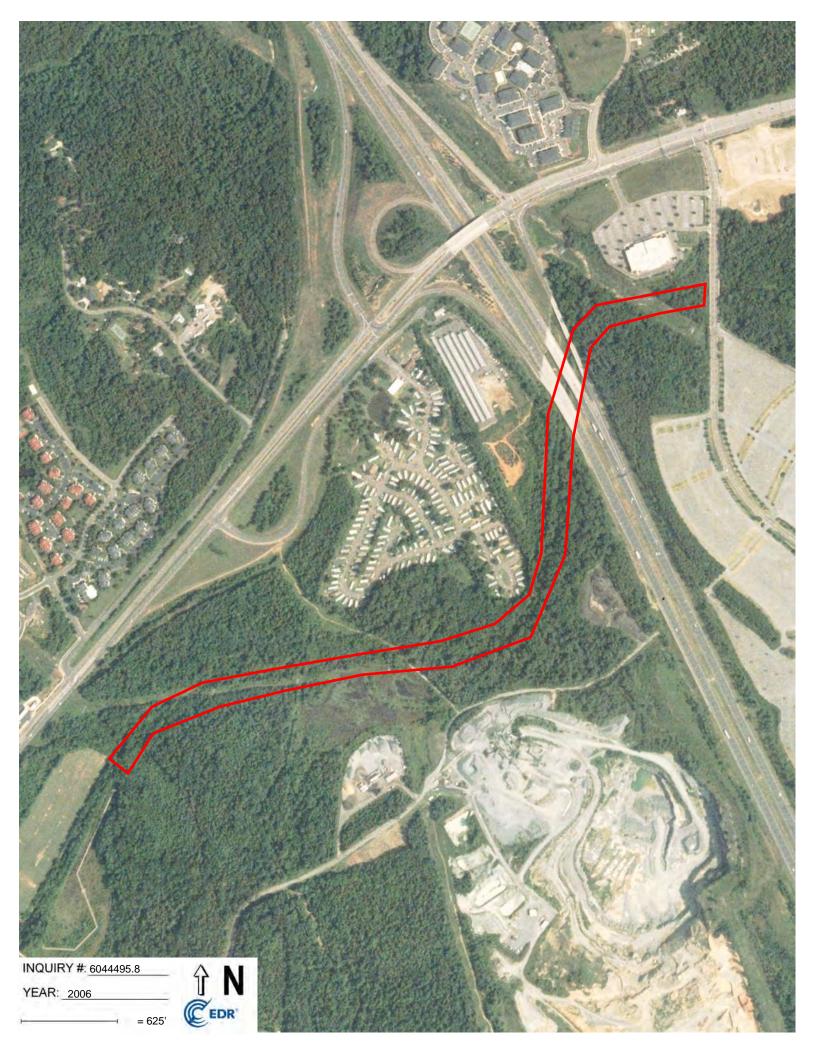
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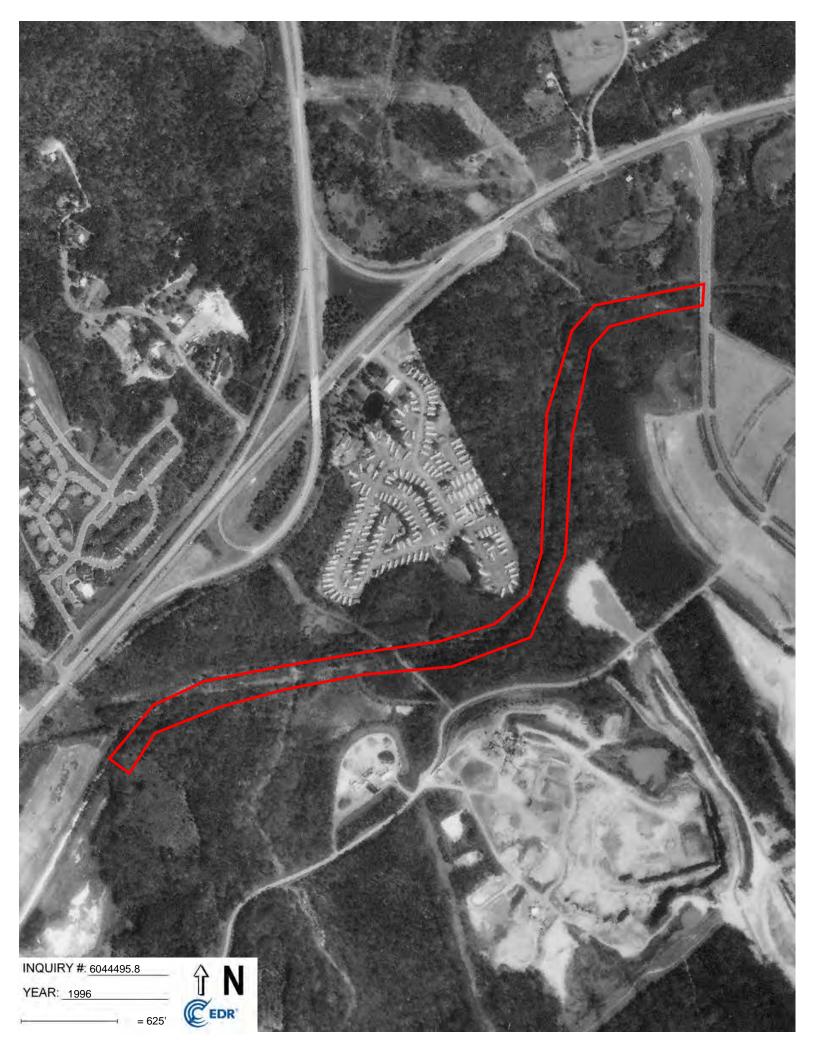
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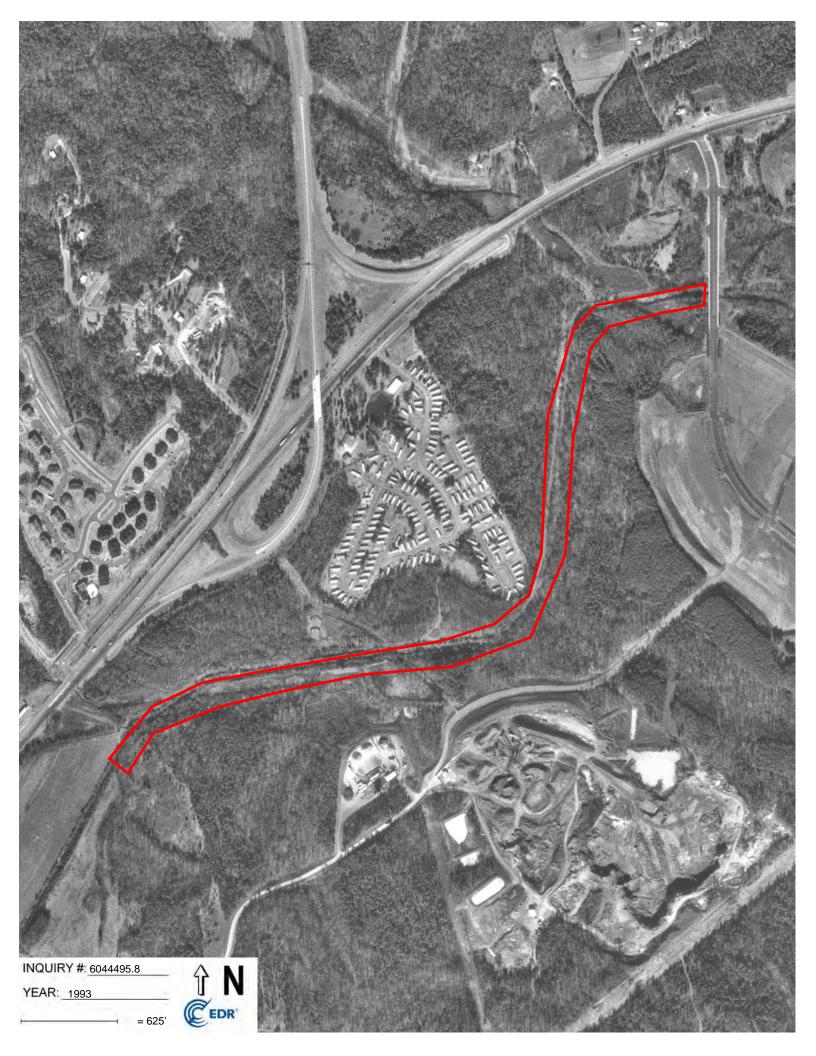


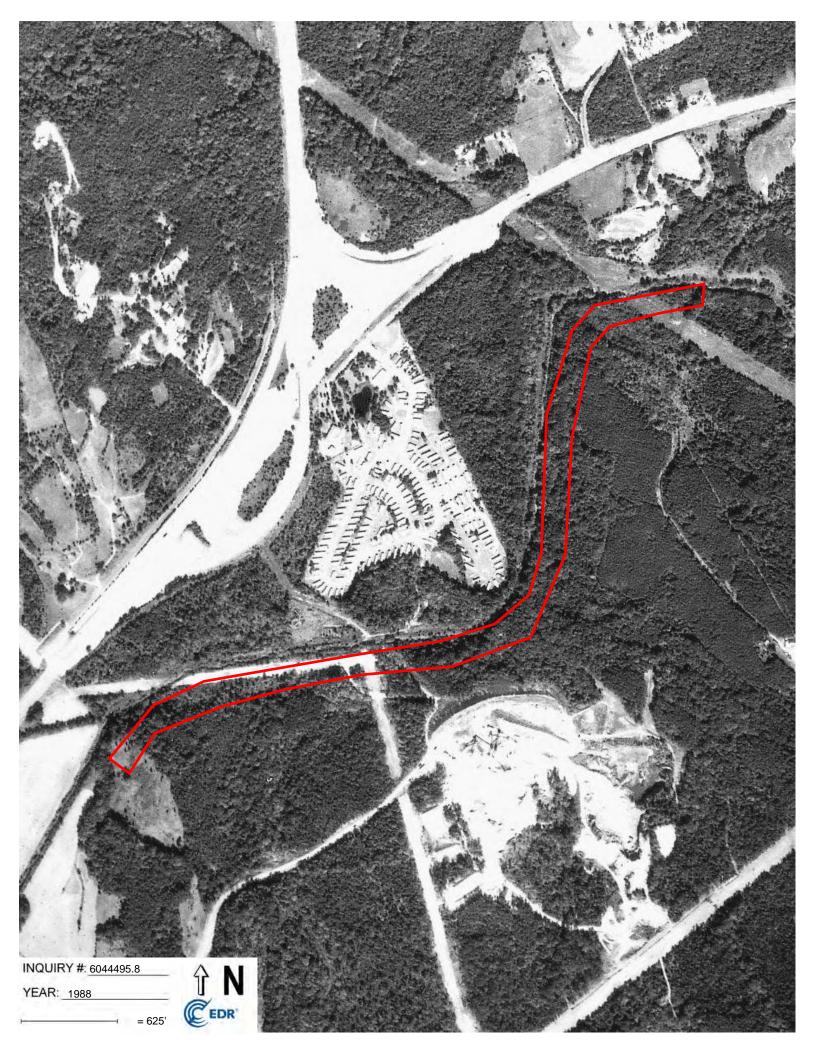




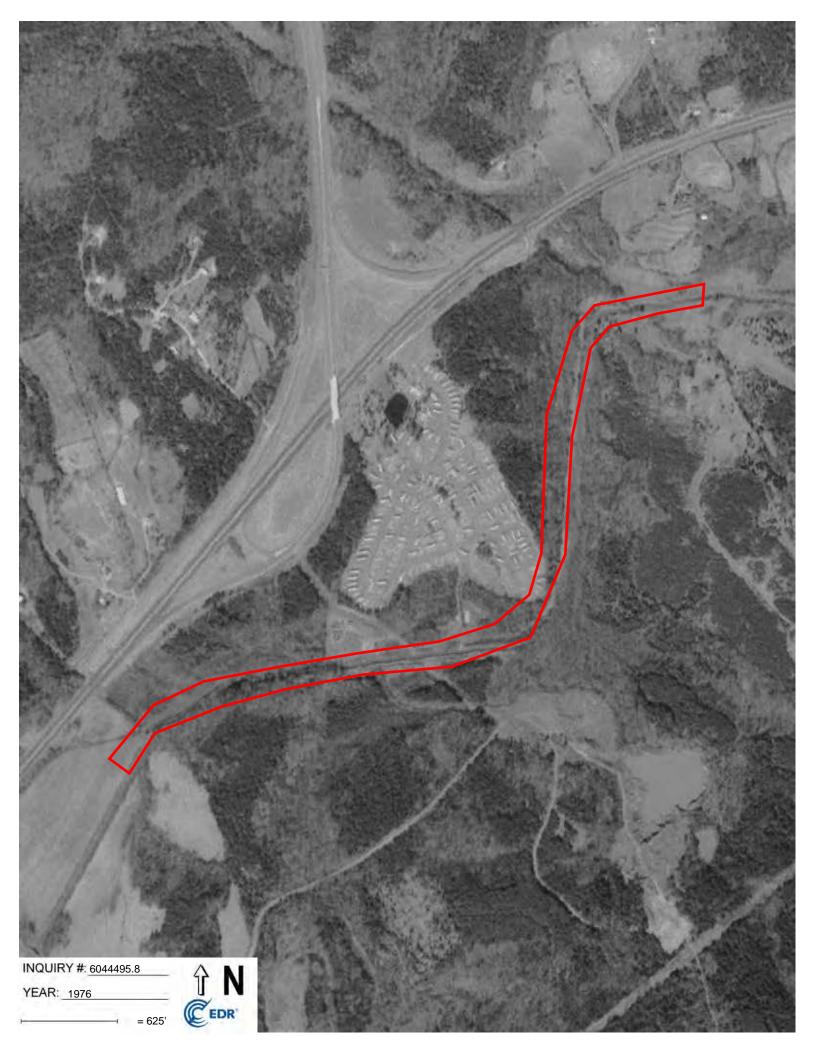




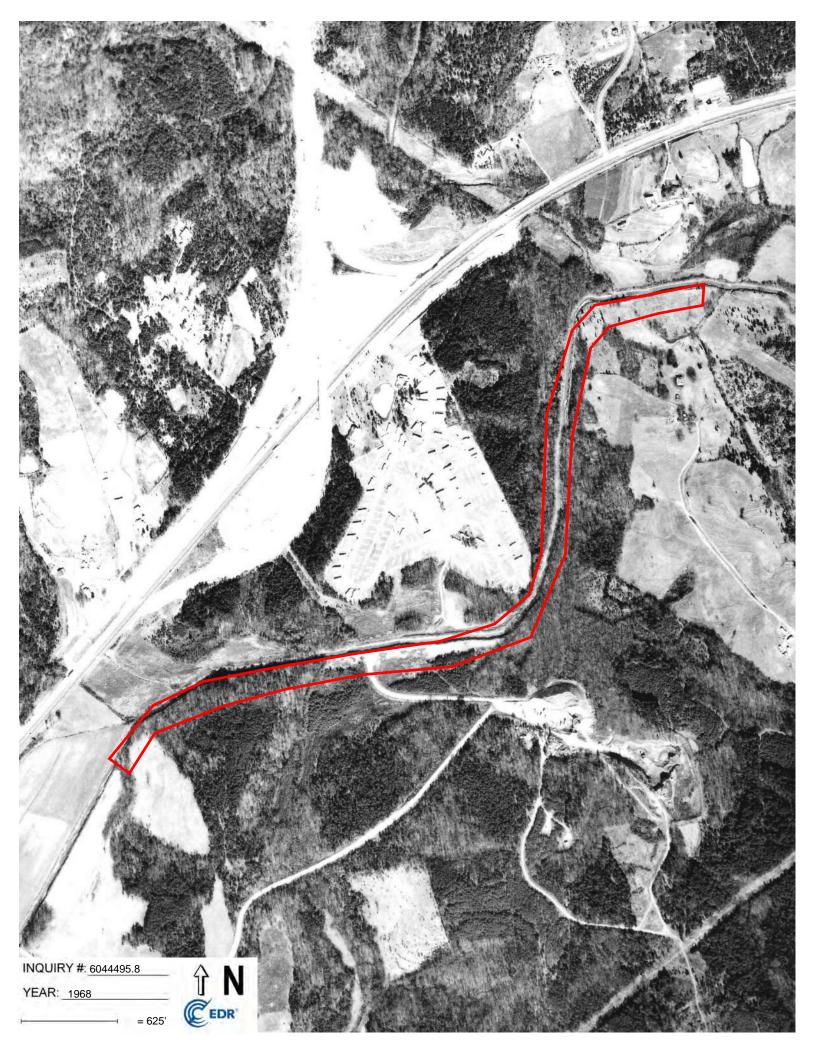


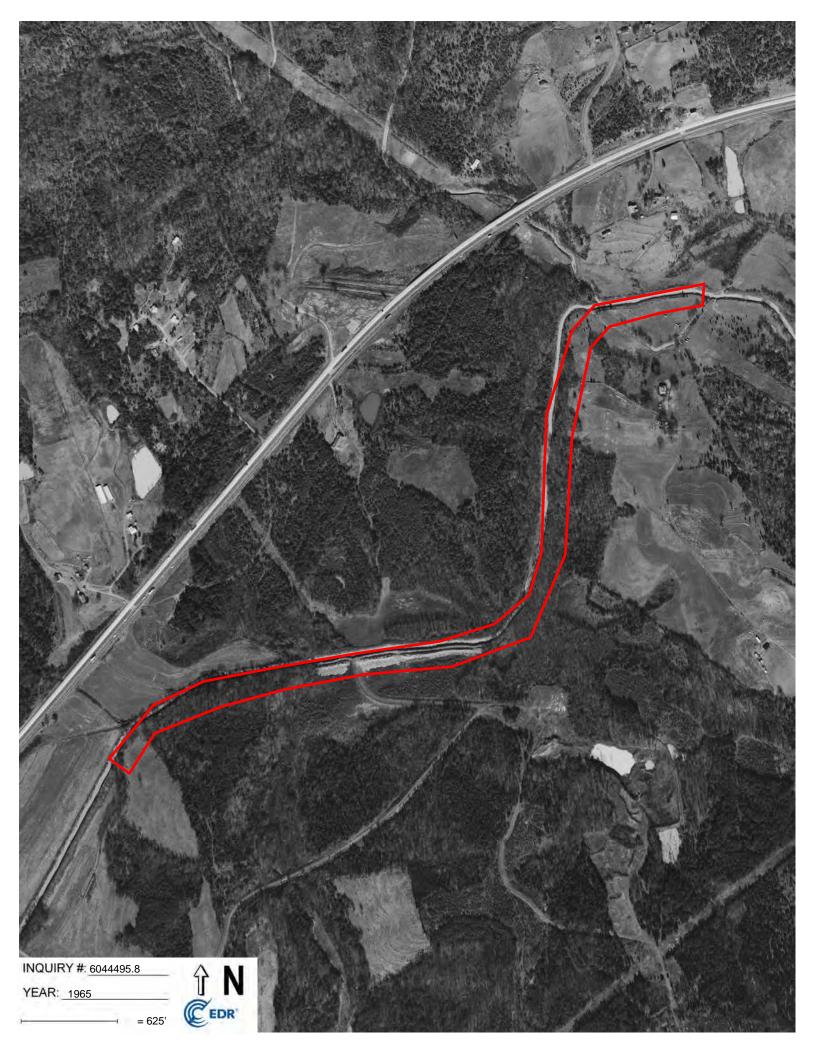


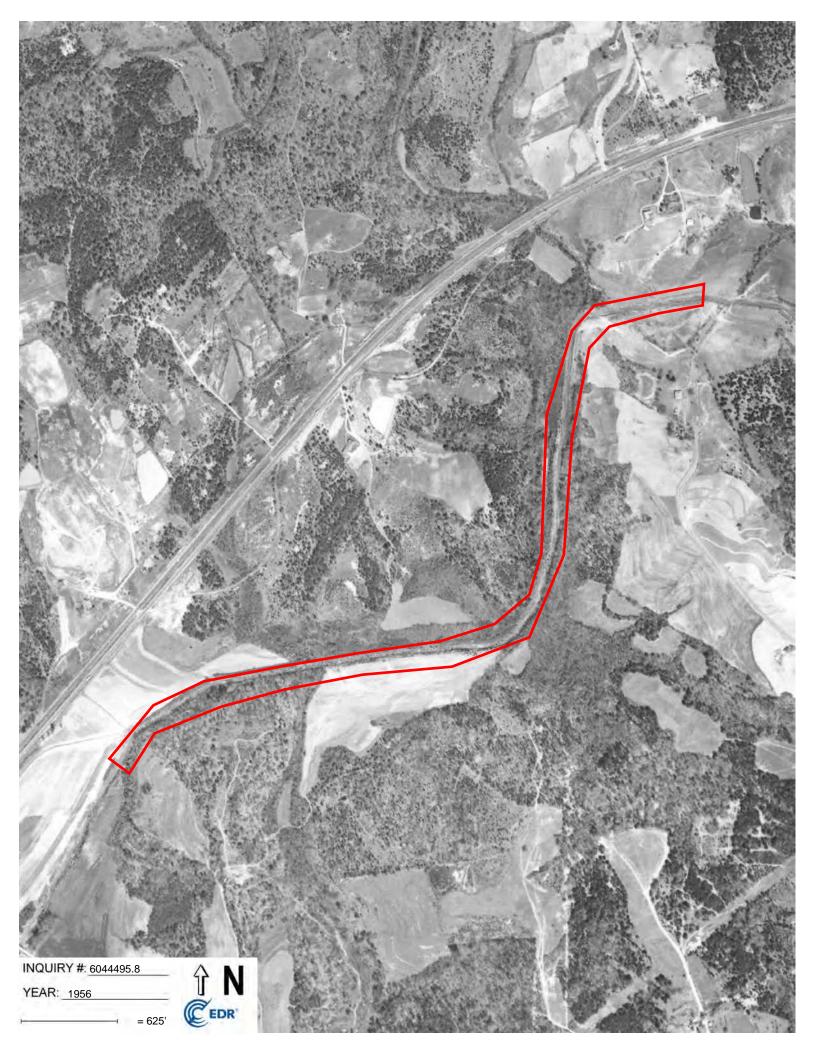


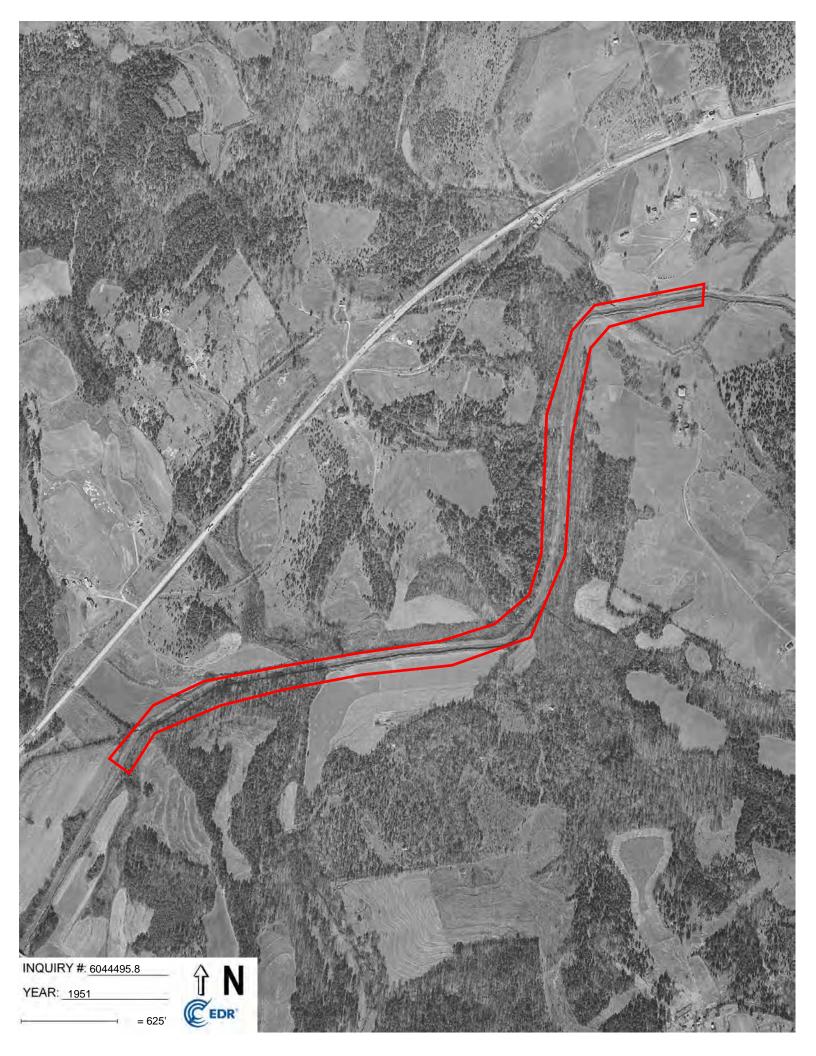


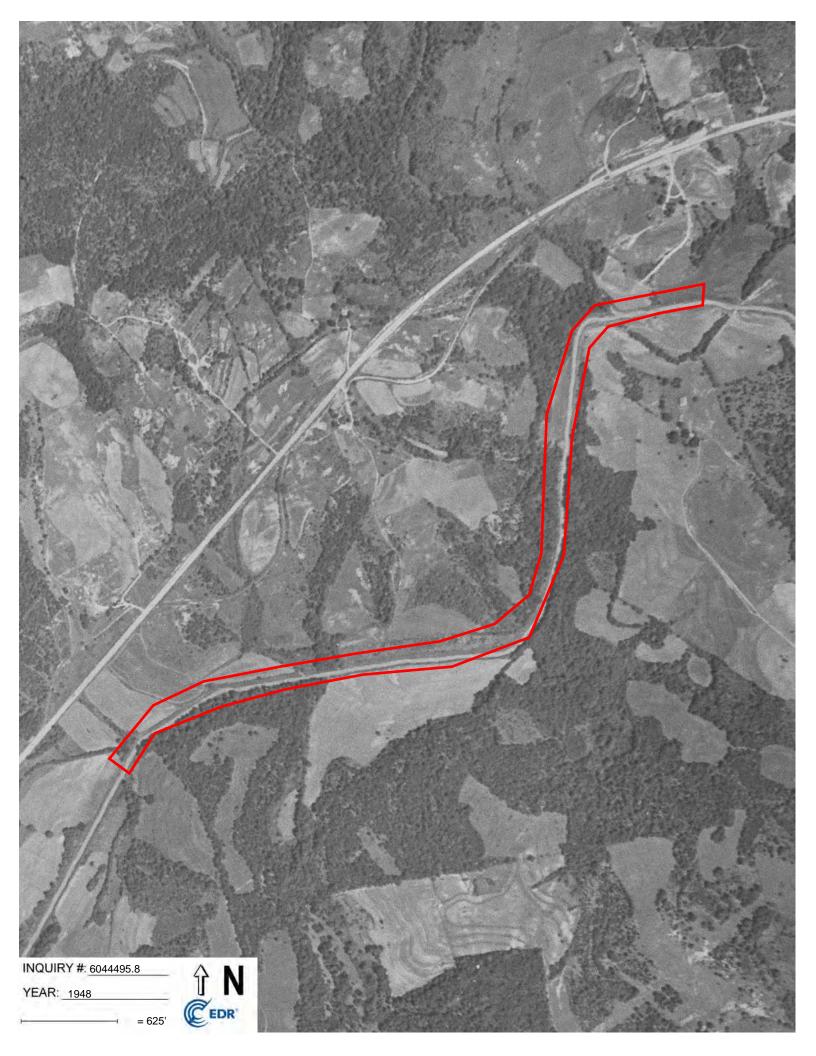












# **XCLT Trail-Mallard Creek Church to Pavilion Blvd**

201 E Mallard Creek Church Road Charlotte, NC 28262

Inquiry Number: 6044495.5

May 04, 2020

# **The EDR-City Directory Abstract**

#### **TABLE OF CONTENTS**

## **SECTION**

**Executive Summary** 

**Findings** 

**City Directory Images** 

**Thank you for your business.**Please contact EDR at 1-800-352-0050 with any questions or comments.

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#### **EXECUTIVE SUMMARY**

## **DESCRIPTION**

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1921 through 2017. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

#### **RECORD SOURCES**

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#### **RESEARCH SUMMARY**

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	Source	<u>TP</u>	<u>Adjoining</u>	Text Abstract	Source Image
2017	Cole Information Services	-	-	-	-
	Cole Information Services	-	X	X	-
2014	Cole Information Services	-	X	X	-
2009	Cole Information Services	-	X	X	-
2005	Hill-Donnelly Information Services	-	X	X	-
2004	Cole Information Services	-	-	-	-
	Cole Information Services	-	X	X	-
1999	City Publishing Company Inc.	-	X	X	X
	Cole Information Services	-	-	-	-
1994	Cole Information Services	-	X	X	-
	R. L. Polk & Co.	-	-	-	-
1991	R. L. Polk & Co.	-	-	-	-

# **EXECUTIVE SUMMARY**

<u>Year</u>	Source	<u>TP</u>	<u>Adjoining</u>	Text Abstract	Source Image
1989	R. L. Polk Co.	-	-	-	-
1984	R. L. Polk Co.	-	-	-	-
1979	Hills City Directory	-	-	-	-
1975	Hills City Directory	-	-	-	-
1974	Hills City Directory	-	-	-	-
1969	Hills City Directory	-	-	-	-
1964	Hills City Directory	-	-	-	-
1959	Hills City Directory	-	-	-	-
1953	Hills City Directory	-	-	-	-
1949	Hills City Directory	-	-	-	-
1944	Hills City Directory	-	-	-	-
1937	Hills City Directory	-	-	-	-
1931	Piedmont Directory Company	-	-	-	-
1925	Commercial Service Co.	-	-	-	-
1921	Commercial Service Co.	-	-	-	-

#### **RECORD SOURCES**

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# **EXECUTIVE SUMMARY**

# **SELECTED ADDRESSES**

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

<u>Address</u>	<u>Type</u>	<u>Findings</u>
10207 N Tryon St	Client Entered	X
10000 N Tryon St	Client Entered	X

# TARGET PROPERTY INFORMATION

# **ADDRESS**

201 E Mallard Creek Church Road Charlotte, NC 28262

# **FINDINGS DETAIL**

Target Property research detail.

#### ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

<u>29</u>

10000 29

<u>Year</u> <u>Uses</u> <u>Source</u>

2005 Handy Pantry Food Store Hill-Donnelly Information Services

## **N TRYON ST**

#### 10000 N TRYON ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2017	HANDY PANTRY FOOD STORES INC	Cole Information Services
	KANGAROO	Cole Information Services
	REDBOX	Cole Information Services
2014	PETRO EXPRESS	Cole Information Services
2004	ACME RETAIL INC	Cole Information Services

#### **N Tryon St**

## 10000 N Tryon St

Year	Uses	Source

1999 Handy Pantry Food Store Inc City Publishing Company Inc. Image pg. A1

#### **N TRYON ST**

#### **10023 N TRYON ST**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	SAMS MART	Cole Information Services
2009	EXXON MOBILE ON THE RUN CAFE	Cole Information Services

#### **10110 N TRYON ST**

<u>Year</u> <u>Uses</u> <u>Source</u>	
---------------------------------------	--

1994 TAKE A BREAK INC Cole Information Services

#### **10207 N TRYON ST**

<u>rear</u>	<u>Uses</u>	<u>Source</u>
2017	DUNKIN DONUTS	Cole Information Services

SPEEDWAY Cole Information Services

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<u>Year</u> <u>Uses</u> <u>Source</u>

2017 REDBOX Cole Information Services
2009 WILCOHESS LLC Cole Information Services

N Tryon St

10207 N Tryon St

<u>Year</u> <u>Uses</u> <u>Source</u>

2005 No Current Listing Hill-Donnelly Information Services

**N TRYON ST** 

**10207 N TRYON ST** 

<u>Year</u> <u>Uses</u> <u>Source</u>

2004 WILCO FOOD MART Cole Information Services

N Tryon St

10207 N Tryon St

<u>Year</u> <u>Uses</u> <u>Source</u>

1999 Wilco Food Mart City Publishing Company Inc. Image pg. A1

TRYON ST N

10000 TRYON ST N

<u>Year</u> <u>Uses</u> <u>Source</u>

1999 Handy Pantry Food Store Inc City Publishing Company Inc. Image pg. A1

6044495-5 Page 4

# ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source				
10000 29	2017, 2014, 2009, 2004, 1999, 1994, 1991, 1989, 1984, 1979, 1975, 1974, 1969, 1964, 1959, 1953, 1949, 1944, 1937, 1931, 1925, 1921				
10000 N Tryon St	2017, 2014, 2009, 2005, 2004, 1994, 1991, 1989, 1984, 1979, 1975, 1974, 1969, 1964, 1959, 1953, 1949, 1944, 1937, 1931, 1925, 1921				
10000 N TRYON ST	2009, 2005, 1999, 1994, 1991, 1989, 1984, 1979, 1975, 1974, 1969, 1964, 1959, 1953, 1949, 1944, 1937, 1931, 1925, 1921				
10000 TRYON ST N	2017, 2014, 2009, 2005, 2004, 1994, 1991, 1989, 1984, 1979, 1975, 1974, 1969, 1964, 1959, 1953, 1949, 1944, 1937, 1931, 1925, 1921				
10023 N TRYON ST	2017, 2005, 2004, 1999, 1994, 1991, 1989, 1984, 1979, 1975, 1974, 1969, 1964, 1959, 1953, 1949, 1944, 1937, 1931, 1925, 1921				
10110 N TRYON ST	2017, 2014, 2009, 2005, 2004, 1999, 1991, 1989, 1984, 1979, 1975, 1974, 1969, 1964, 1959, 1953, 1949, 1944, 1937, 1931, 1925, 1921				
10207 N Tryon St	2017, 2014, 2009, 2004, 1994, 1991, 1989, 1984, 1979, 1975, 1974, 1969, 1964, 1959, 1953, 1949, 1944, 1937, 1931, 1925, 1921				
10207 N TRYON ST	2014, 2005, 1999, 1994, 1991, 1989, 1984, 1979, 1975, 1974, 1969, 1964, 1959, 1953, 1949, 1944, 1937, 1931, 1925, 1921				

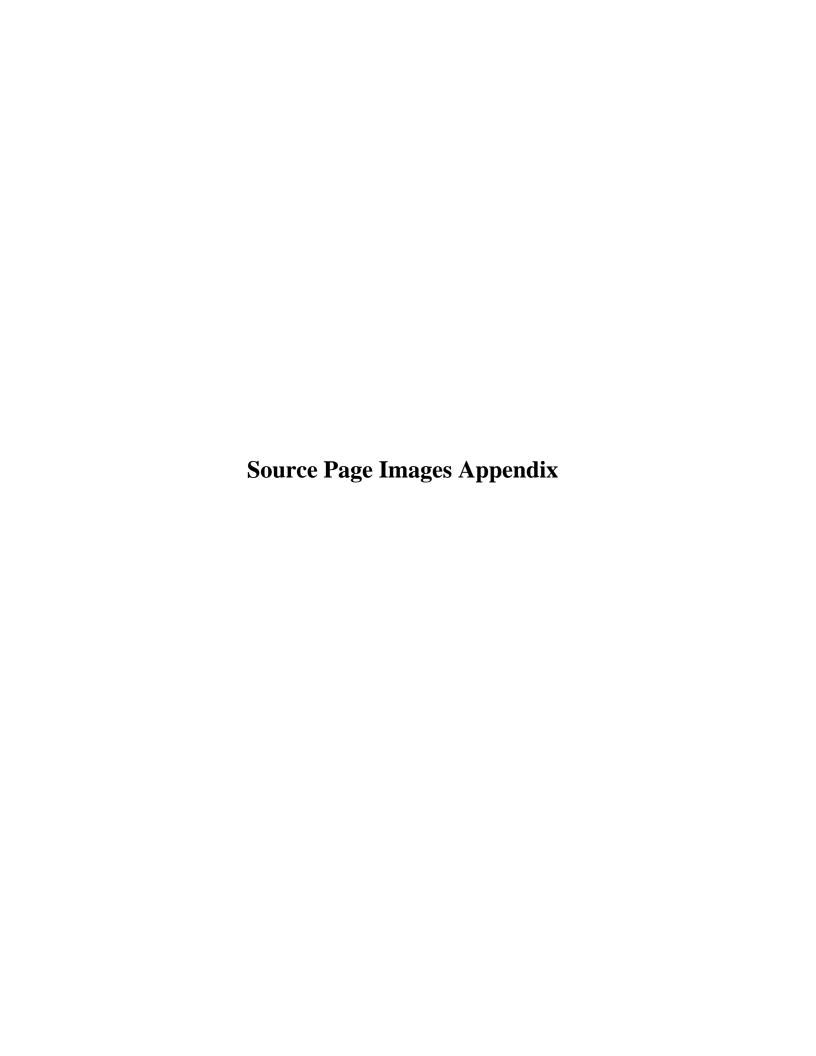
## TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

#### **Address Researched**

#### **Address Not Identified in Research Source**

201 E Mallard Creek Church Road 2017, 2014, 2009, 2005, 2004, 1999, 1994, 1991, 1989, 1984, 1979, 1975, 1974, 1969, 1964, 1959, 1953, 1949, 1944, 1937, 1931, 1925, 1921



<u>TP</u>

# N Tryon St 1999

	CHARLOTTE, NC						
TRYO	N N 28213 Contd		TRYC	N N 28262 Contd		TRYON N (R R 66) 28262 Contd	TRYON S 28280 Contd
6507 🛨	tJackson Hewitt Tax Service	599-6558 96		★Precision Tune Auto Care	510-1588 97	11240 ★Starlight Stadium 14	101 NATIONSBANK PLAZA BLDG Contd  ★Bowne Of Charlotte 339-0000 94
6507 🛨	Pizza Hut Delivery Or Carryout		8011 8016	★Twin Peeks	549-4571 92 548-8001 90	11800 FICKIERI MICRIERI 347-1439 83 8	★Brown Shannon E
6507 C ★	Distinctive Specialties	596-3119 87	8040 8040	★Griftin Brothers Tire	549-9394 97	11844 Baldwin Aurora 548-3972 96 11844 Baldwin E 548-3973 97	★Chick-Fil-A
6507 D★ 6508 ★	Pro Fit	596-4111 90 596-2326 93	8040	Sis Inc Charlotte ★Griffin Comnetns	549-8595 96	11900 ★Love Auto Parts	★Coca-Cola Fountain Sales
6514 🖈	Crown Cinr & Lindry Br	596-6704	8340	Charlotte  ★Homewood Suites Hotel	549-8594 96 549-8800 91	12027 Shelfield Dávid	★Collins J Quincy Jr real estate
	& Appliance #4	596-9240 596-8014	8404	★Flair's Rick Gold's Gym Aerobics	548-0202 95	12101 Rumoes C.R. 548-0498 94	★Crown Communications 376-3434 97
	FLORYLAND AVE		8404	& Fitness	548-0202 95	12400 *City-County Util-Drinking Water & Sanitary Sewer Svo Charlotte Mecklenbig	★Dixon Chas C Jr ercht
6615 1	kFamous Mart	596-6792 1	8419	★Hampton Inn University Place	i	Charlotte Mecklenbrg Wastewater Trmt Pint	★Foust Wm E II archt 332-7004 94 ★Foust Wm E II archt 332-7004 94 ★Fraley John L Jr
6615 <del>4</del>	kBullard J Todd DDS ★Smith J Roderick DMD	596-0658 90 596-0658 85	8431 8446	★Burger King		Mallard Creek	real estate
6633	★Barry Mig Fine Men's Clothing ★U S Postal Service	599-0297 94	5410	Motor Vehicles Process Serving Unit		Construction Co +510-9700 98 12744 + Clary Rick Plumbing 549-1206 93	real estate
6700	Charlotte NC Stations & Branches		8446	Enforcement	547-5782 91	13834 *Baby Dolls	Collees
	North Tryon Station	508-8646 88		Motor Vehicles School Business	F + 7 F 7 00 O1	13834 ★Babýdolls	★Green John K ri est
6701 - 6701 -	28213-15-56-62 *Mitchell ths Sycs *Sign-a-rama	596-9991 92 +598-2622 98	8446	& Traffic Safety	547-5788 91	Motor Vehicle Dept Drivers License Ollice	
6701 1 -	I isa's O Snorts		0500	Motor Vehicles Enforcement	547-5777 91	1356-BUS 397-RES 396-NEW	Consulting
6701 S	Bar & Grill	597-8008 93 +599-3777 98		Marriott-Char North  ★Bojangle's Restrats	547-1122 88 510-1194 96	TRYON S 28280	I reel estale
6709	★Check-N-Go ★First Citz Bank Ofcs North Gate & ATM		8525	★Sleep Inn Charlotte  ★Shoney's Restauranis	549-4544 97	From Trade sw to city limits (Base line dividing E & W straets betwean Trade & Camden Rd)	★Kirkland & Assocs 377-8466 91 ★Lang Gary R Archl +322-7004 93
6736	Location ★Fnc'N Frac's			★NationsBanc Mortgage Corp		Tract 1 (501-725 O) \$3 Tract 1 (727-899 B) \$3	★Lasalle Partners 372-9522 90 ★McCall Stephen A
	Goodtimes	598-8008 96	8551	★NationsBank Bankinn Center		Tract 1 (1000-1191 B) \$3	architect 332-7004 94  ★Nations Bank 358-0827 96  ★Nationsbanc
6832 6832	★Freedom Homes	598-1122 91 598-1122 91	0700	University City UNIVERSITY HOSPITAL &		Tract 4 (1192-1599 B) \$1 Tract 36 (1600-2099 B) \$1	Investments Inc
6919	Davis M J	+596-2278 98	8700	PARK		Tract 37 (2101-2999 B) \$1	Commercial Com
	32 UNIVERSITY SQUARE S CENTER			★Admitting Dept     ★Business Office     ★Information	548-5617 90 548-6000 85	Tract 37 (3000-3299 B) \$1 Tract 37 (3310-3314 E) \$1	Factoring
6920 6932	★South 21 JR ★All Points Ins Agoy ★Hair's The Limit	596-7407 95 596-4911 96		I ahoratory	548-5725-85	101 NATIONSBANK (North Carolina Natl Bank)	real estate 375-1000 96
	★Honda works	+203-0033 30		★Radiology X-ray     ★Sleep Center     ★Carolinas Sleep Svcs	548-5855 95 548-5855 97	★8usiness Banking 386-9350 98	★Plyler Jim ri est 375-1000 93     ★Pollard John O etty 372-3880 90     ★Pollard John O Atty 372-7055 93     ★Rose Caldwell R ri
E022 A	★PclaB ★Webtax ★Enterprise	596-7911 91	ļ	★Cetel Mindy MD	548-5855 95 548-5855 90	★8usiness Credit	★Rose Caldwell R r/ estate
0932 A	Rent-A-Car Charlotte University	597-0004 93		★Martines Maria Dr	548-5800 97	★Commercial Loans	★Rose Louis L III reel estate
7000	★Merit Tech Inc	596-8473 97		★University Hospital & Medical Perk ★Parsons International		★Newcomer Information 386-1487 98  ★Personal Employment 386-8996 98	real estate 375-1000 85
7216	ZIP CODE 28262 ★White Guard Kennels	597-5267 95	8944 9028	★North Carolina		★Personal Recruiting	★Smci 375-5788 94 ★Smith John M 372-7056 97 ★Software Menagament
7216 7305	★White House Buildings	598-5776 96 +598-6525 98	9028	Highway Patrol ★North Carolina		★Private Client Group 386-5731 98 ★Profsnl & Exec Briking 386-8686 98	Consultants Inc
7305	★Grace Linda L DVM ★Green Mark DVM ★Harmon Laurie A DVM	598-6525 96	9211	Driver's License MALLARD POINT SHOPPII		**\text{\pmchasing} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
7305 7305	★Harmon Laurie Anne			★Alphagraphics Printshops		★Nationssecurities Full Svc 8rokerage 385-6300	#SYSN Consuming Group Inc
7305	DVM ★Mallard Creek Animal Hospital			Of The Futura University Area	549-0404 97	International Division  +Collection	
7321 7321	★Brake Xperts	597-5997 97	-	★ACCU Staff Inc		★Letter of Cr Export 386-3170 98 ★Letter of Cr Import 386-7335 98	Caty's Grill
7321	★Charlotte Auto Security & Sound			Bakery ★Carmen Carmen		★Paying & Receiving 386-2600 98	i ★Wilkinson Neill
7321	★Charlotte Auto     Security & Sound	599-1006 97		Salon E'Spa-Aveda ★Carmen Carmen Salon ★Countrywide Home		(North Carolina National Bank Plaza Bldg)	real estate
7321 7321	★Hair Keepers ★Helena's At Hair	599-7078 95		Loans	510-0068 97	★Bowles Hollowell Conner & Co	2420 ★First Industrial 8uildings & Land 376-9921 95
7321	Keepers ★Leather & Lace			Inc	547-7040 97 548-3566 97	★ Charles Schwadd 3/3-0930 96	*Godley Bob
7401	North ★Turbo Exchange inc	596-7540 89 599-9177 95		★Great Clips For Hair Charlotte	549-0670 97	★Conner Charles H Jr	*Pal Godley Interiors
	★Cardinal Industrial Finishes	596-0926 94		★Jersey Mike's Subs      ★NationsCredit	549-9003 97	★E V A Cogeniex'West +370-6677 98 ★Garner Frederic H IV 348-1000 95	I ★Gleiberman Spears
7404 7405	& Kar Buff	596-0941 86	1	Financial Services Corp Of America		#Grigg John H	★Gleiberman Spears
7405	Inc	+599-5955 98		& Affiliates ★Nevada Bob's		★Hollowell Thomas P 348-1000 96 ★Hunter & Hunter PA 470-3800 98 ★Imbrogne Edward P 348-1000 92 ★Johnston John T Iii 348-1000 94	Shepherd & 377-0220 91 ★Menaker PA CPA
7407	Technology	599-1886 97 597-0300 94		Discount Goll  *Oreck Cloverfield's	503-5077 96 549-0700 97	★Imbrogno Edward P 348-1000 92 ★Johnston John T lii 348-1000 94	*Shepherd Thomas N CPA 377-0220 90  *Soears Wm J CPA 377-0220 83
7413	★Central Delivery			★Pak Mail Centers Of America University		★Leneave Gregory M 348-1000 97	3600 ★Cook Wm Hunter CPA +334-3600 98 ★Hunter & Hunter PA
7415 7419	★Factory Direct Furn &		1	Area ★Quall Dry Cleaning ★Sterbucks Coffee	548-3900 97 548-1254 97 547-1787 97	I SEMONISSEN WILLIAM A 348-1000 94	Hunter Betty T CPA
7433	Mattress		0215	★TCBY Treats	. 548-9809 97 593-1911 97	★Pelers Thomas B       348-1000 96         ★Pollock John W       348-1000 96         ★Rankowitz Matthew S       348-1000 94	★Hunter Jas R III CPA 334-3600 92 ★King Cynthia A CPA 334-3600 92
7630	Fitting Co Inc ★Buildings By		9315	★Kohi's Inc	. +593-0290 98	I ⋅ ★Rohrer Ivon D Jr	
7630	Space Master ★Space Master Building	549-4070 97 549-4070 88	1	Wallpapers	. 549-5511 96	real estate	★Hamel Hloks Wray  Brown & Jernigan PA 373-0751 95
7631	★Ace Doran Hauling & Rigging Co ★J & R Sell Service	549-8579 90	9331	Store #1351	. 547-0248 97 547-1556 97	★Smith Shannon G	★Hicks Fred A atty 373-0751 97
7649 7649	★J&R Sell Service ★U-Heul Co independent Dealer	. 547-0453 83	9331 9528	★Kerr Drug Store  ★Hight Vetarinary Hosp	510-1437 97 595-9377 96	Athletic Center +371-8430 98	★Jernigan Jerry W atty
7701	Charlotte	. 547~1522 94 +594-9000 98	9615	★Paradise Valley Golf Center Driving Range		Services	★Von Recum Uta M atty 373-0751 97
7701 7701 7701	★Hess Racing Products      ★Rsh Bsr Products	. 549-8731 9	0701	★Hertocker Park Drive-In		I ★Windit Constina.I 348-1000 9F	3700 *Kane Richard F atty 372-3680 79
7701	Main Office & Sales	. +594-9144 91	3   4000	★Perk Drive-In restaurant		★Aon Investment Consulting	& Bothe Lip +373-6999 98 5 +Meyer Robert B atty 372-7056 94
7716 7735		. 547-1095-86	5   10000	Store Inc #98	. 548-8119 90	★Aon Investment	1 3750 ★Legg Mason Wood
7809 7828	Stewart W M	. +597-3959 9	5 1 44000	Alexander A T	. 547-1003 91 . 547-0214 78	★Banner Steven n est +375-1000 98 ★Blakanev & Alexander	Plaza II
7918 7928	★Tire Kingdom ★Meineke Discount	, 510-0617 9		Storage	. 510-1155 97	ettys	★Beehive The
	Mulliers	. 549-9030 9	•	(R R 66) ZIP CODE 26		Institute	★Hodgson William E
602	•	→ RUSI	NESS	LISTING	□ CHAŃ	GE OF ADDRESS NE	M I IQTINIC

XCLT Trail-Mallard Creek Church to Pavilion Blvd 201 E Mallard Creek Church Road Charlotte, NC 28262

Inquiry Number: 6044495.4

April 20, 2020

# **EDR Historical Topo Map Report**

with QuadMatch™



# **EDR Historical Topo Map Report**

04/20/20

Site Name: Client Name:

XCLT Trail-Mallard Creek Chur 201 E Mallard Creek Church Ro Charlotte, NC 28262

EDR Inquiry # 6044495.4

Wood Environment & Infrastructure Soluti

2801 Yorkmont Road Charlotte, NC 28208 Contact: Matt Miller



599.82' above sea level

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Wood Environment & Infrastructure Solutions, Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Rest	iits:	Coordinates:		
P.O.#	1238200024.01	Latitude:	35.324551 35° 19' 28" North	
Project:	XCLT Mallard Creek to Pavilior	Longitude:	-80.727886 -80° 43' 40" West	
-		UTM Zone:	Zone 17 North	
		UTM X Meters:	524732.44	
		UTM Y Meters:	3909069.46	

Elevation:

Coordinates

#### **Maps Provided:**

Cooreh Dooulto

2013

1996

1988

1969

1949 1942

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# Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

## 2013 Source Sheets



Harrisburg 2013 7.5-minute, 24000

## 1996 Source Sheets



Harrisburg 1996 7.5-minute, 24000 Aerial Photo Revised 1993

## 1988 Source Sheets



Harrisburg 1988 7.5-minute, 24000 Aerial Photo Revised 1984

#### 1969 Source Sheets



Harrisburg 1969 7.5-minute, 24000 Aerial Photo Revised 1965

# Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

## 1949 Source Sheets



Harrisburg 1949 7.5-minute, 24000 Aerial Photo Revised 1948

## 1942 Source Sheets



CHARLOTTE 1942 30-minute, 125000

NW N NE
TP, Harrisburg, 2013, 7.5-minute

SITE NAME: XCLT Trail-Mallard Creek Church to Pavil

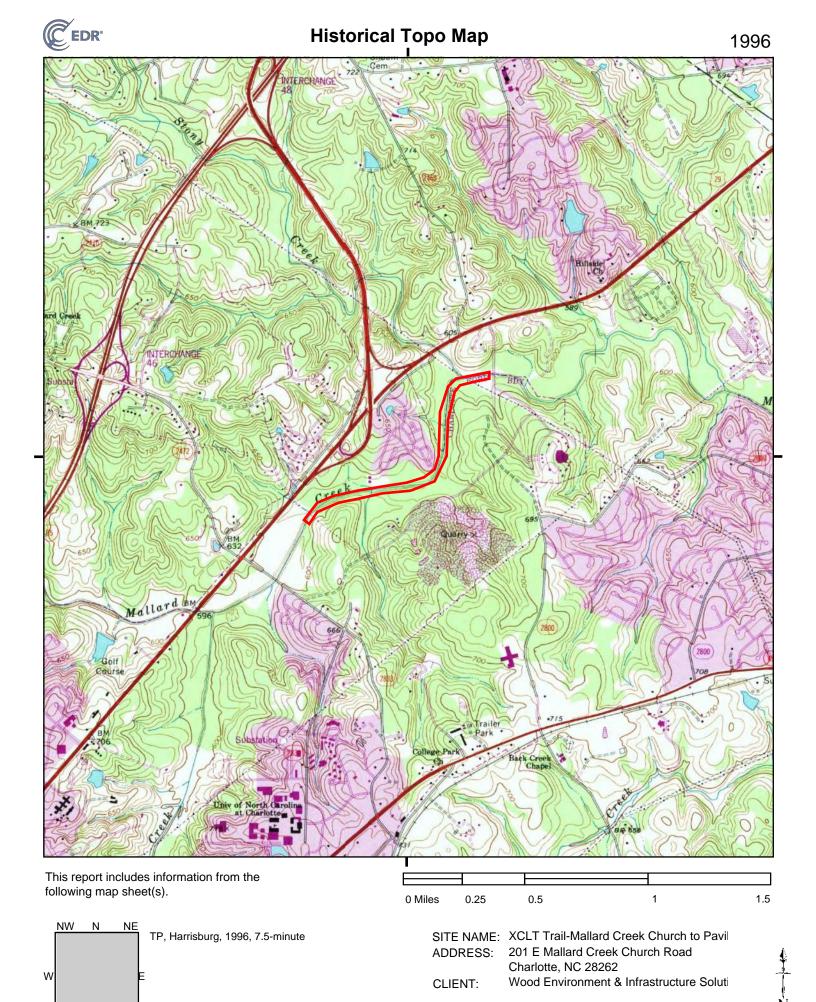
ADDRESS: 201 E Mallard Creek Church Road

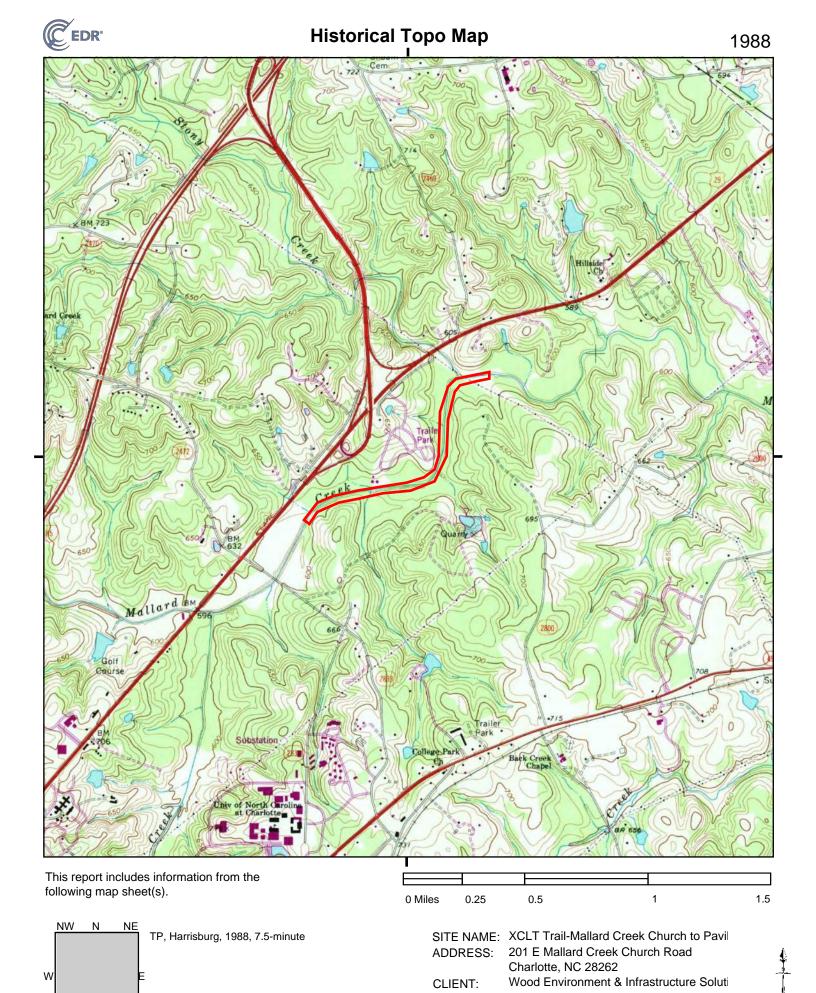
Charlotte, NC 28262

CLIENT: Wood Environment & Infrastructure Soluti



page 5

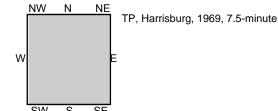




6044495 - 4 page 7

0 Miles

0.25



SITE NAME: XCLT Trail-Mallard Creek Church to Pavil

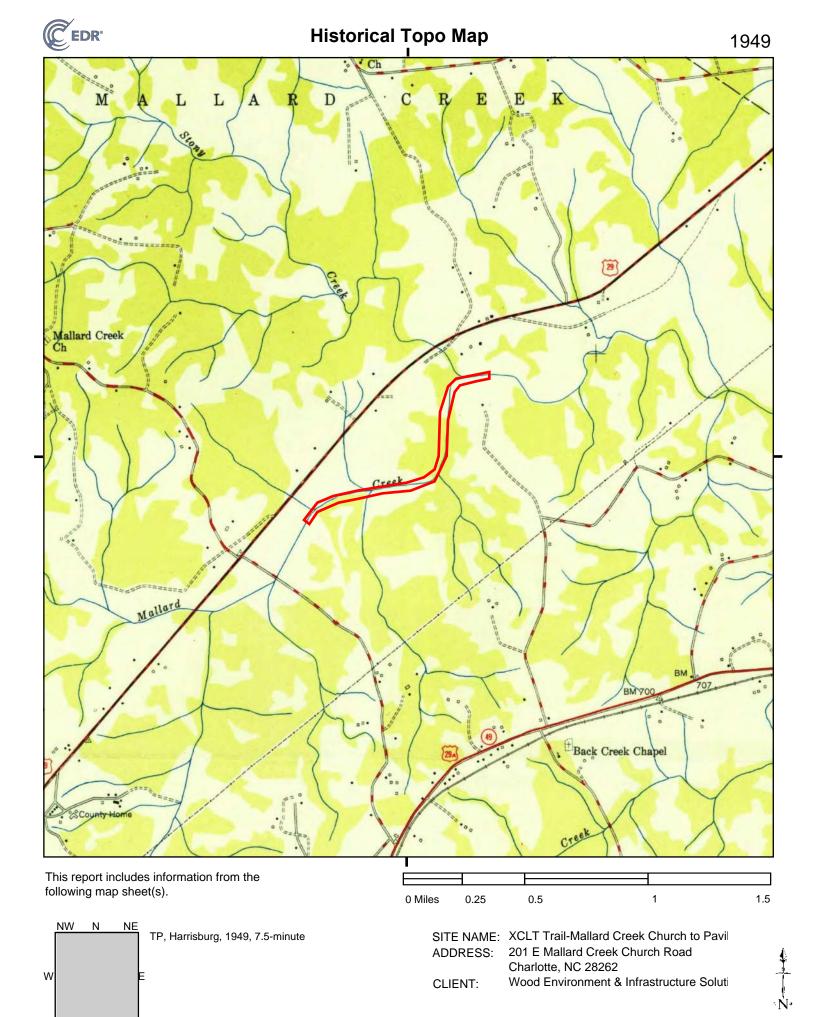
ADDRESS: 201 E Mallard Creek Church Road Charlotte, NC 28262

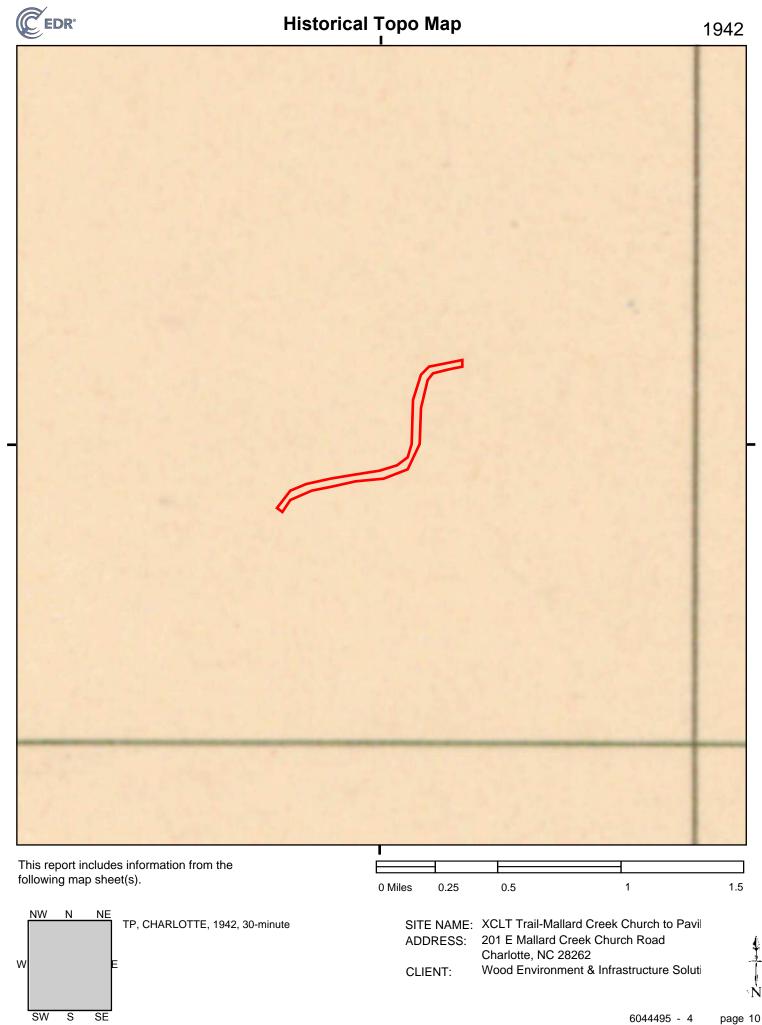
0.5

Wood Environment & Infrastructure Soluti CLIENT:



1.5





XCLT Trail-Mallard Creek Church to Pavilion Blvd 201 E Mallard Creek Church Road Charlotte, NC 28262

Inquiry Number: 6044495.3

April 20, 2020

# **Certified Sanborn® Map Report**



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

# **Certified Sanborn® Map Report**

04/20/20

Site Name: Client Na

XCLT Trail-Mallard Creek Chur 201 E Mallard Creek Church Ro Charlotte, NC 28262

EDR Inquiry # 6044495.3

Wood Environment & Infrastructure Solution

2801 Yorkmont Road Charlotte, NC 28208 Contact: Matt Miller



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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

#### Certified Sanborn Results:

**Certification #** 7B07-404A-9FD6 **PO #** 1238200024.01

Project XCLT Mallard Creek to Pavilion

#### **UNMAPPED PROPERTY**

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: 7B07-404A-9FD6

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

Library of Congress

University Publications of America

EDR Private Collection

The Sanborn Library LLC Since 1866™

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# **XCLT Trail-Mallard Creek Church to Pavilion Blvd**

201 E Mallard Creek Church Road Charlotte, NC 28262

Inquiry Number: 6059429.1s

May 08, 2020

# The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

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**Thank you for your business.**Please contact EDR at 1-800-352-0050 with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

#### TARGET PROPERTY INFORMATION

#### **ADDRESS**

201 E MALLARD CREEK CHURCH ROAD CHARLOTTE, NC 28262

#### **COORDINATES**

Latitude (North): 35.3245510 - 35° 19' 28.38" Longitude (West): 80.7278860 - 80° 43' 40.38"

Universal Tranverse Mercator: Zone 17 UTM X (Meters): 524733.0 UTM Y (Meters): 3908871.0

Elevation: 597 ft. above sea level

#### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5948305 HARRISBURG, NC

Version Date: 2013

West Map: 5948299 DERITA, NC

Version Date: 2013

#### **AERIAL PHOTOGRAPHY IN THIS REPORT**

Portions of Photo from: 20140524 Source: USDA

# MAPPED SITES SUMMARY

Target Property Address: 201 E MALLARD CREEK CHURCH ROAD CHARLOTTE, NC 28262

Click on Map ID to see full detail.

MAP	OUTE NAME	4 D D D C O O	DATABAGE A OBONIVAIO	RELATIVE	DIST (ft. & mi.)
<u>ID</u> 1	SITE NAME  QUIKTRIP 1032	ADDRESS 11230 N TRYON STREET	DATABASE ACRONYMS UST, Financial Assurance	ELEVATION Higher	<u>DIRECTION</u> 179, 0.034, NE
A2	PETRO EXPRESS 57	10000 NORTH TRYON ST	LUST, LUST TRUST, INST CONTROL, IMD	Lower	223, 0.042, WSW
A3	ACME RETAIL INC	10000 N TRYON ST	EDR Hist Auto	Lower	223, 0.042, WSW
A4	CIRCLE K 2723971	10000 N TRYON STREET	UST, Financial Assurance	Lower	223, 0.042, WSW
5	SPEEDWAY #7989	10207 N TRYON STREET	LUST, LUST TRUST, UST, IMD, Financial Assurance	Higher	351, 0.066, West
6	NATIONAL TIRE & BATT	10135 N TRYON ST	RCRA NonGen / NLR, ECHO	Higher	378, 0.072, WSW
B7	MARTIN MARIETTA MATE		US MINES	Higher	598, 0.113, South
C8	EXXON MOBIL CORPORAT	10023 N TRYON ST	EDR Hist Auto	Higher	649, 0.123, WSW
C9	EXXONMOBIL OIL CORP	10023 N TRYON ST	RCRA NonGen / NLR	Higher	649, 0.123, WSW
C10	7-ELEVEN STORE 35588	10023 N TRYON STREET	UST, Financial Assurance	Higher	649, 0.123, WSW
B11	MALLARD CREEK QUARRY	575 E. MALLARD CREEK	US MINES	Higher	704, 0.133, South
B12	MARTIN MARIETTA MALL	575 E MALLARD CREEK	RCRA-VSQG	Higher	704, 0.133, South
D13	HERLOCKER'S PANTRY	10515 N TYRON STREET	IMD	Lower	736, 0.139, North
D14	HERLOCKER'S AMOCO PA	10515 NORTH TRYON ST	UST	Lower	736, 0.139, North
D15	HERLOCKER'S PANTRY	10515 N TYRON STREET	LUST	Lower	736, 0.139, North
16	CVS PHARMACY #6518	11430 NORTH TRYON ST	RCRA-LQG	Lower	815, 0.154, NE
17	HISTORIC ALEXANDER P	MALLARD CREEK CHURCH	IMD	Higher	954, 0.181, West
E18	ATT CELL TOWER	533 EAST MALLARD CRE	LAST	Higher	980, 0.186, South
19	GLEN CLARENCE CLINE	11431 US HIGHWAY 29	SHWS, LUST, LUST TRUST, IMD	Higher	1028, 0.195, NE
E20	THE FLATS AT MALLARD	523 E MALLARD CREEK	LUST, IMD	Higher	1109, 0.210, South
21	AMPHITHEATER ENTERTA	707 BLOCKBUSTER ROAD	SWF/LF, HIST LF	Higher	1126, 0.213, ENE
22	HISTORIC ALEXANDER P	218 W MALLARD CREEK	LUST, IMD	Higher	1259, 0.238, WSW
23	BLYTHE CONSTRUCTION,	575 MALLARD CREEK CH	RCRA-VSQG	Higher	1268, 0.240, South
24	KENNETH C. REEVES	2323 SALOME CHURCH R	SWF/LF	Higher	2171, 0.411, NNE

# TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

# **DATABASES WITH NO MAPPED SITES**

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

### STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list	
NPL	
Proposed NPL	Proposed National Priority List Sites
W L LILIVO	- rederar edperrand Elene
Federal Delisted NPL site lis	st
Delisted NPL	National Priority List Deletions
Federal CERCLIS list	
	Federal Facility Site Information listing Superfund Enterprise Management System
OLIVIO	- Superiund Enterprise Management System
Federal CERCLIS NFRAP si	ite list
SEMS-ARCHIVE	Superfund Enterprise Management System Archive
Federal RCRA CORRACTS	facilities list
CORRACTS	Corrective Action Report
Federal RCRA non-CORRA	CTS TSD facilities list
RCRA-15DF	RCRA - Treatment, Storage and Disposal
Federal RCRA generators li	st
RCRA-SQG	RCRA - Small Quantity Generators
	•
Federal institutional control	ls / engineering controls registries
	Land Use Control Information System
US ENG CONTROLS	Engineering Controls Sites List Institutional Controls Sites List
OS INST CONTROLS	Institutional Controls Sites List
Federal ERNS list	
ERNS	Emergency Response Notification System

State- and tribal - equivale	ent NPL
NC HSDS	Hazardous Substance Disposal Site
State and tribal landfill an	d/or solid waste disposal site lists
OLI	Solid Waste Active Disaster Debris Sites Listing Old Landfill Inventory Land-Clearing and Inert Debris (LCID) Landfill Notifications
State and tribal leaking st	orage tank lists
_	Leaking Underground Storage Tanks on Indian Land
State and tribal registered	l storage tank lists
AST	Underground Storage Tank Listing LL AST Database LL Underground Storage Tanks on Indian Land
State and tribal voluntary	cleanup sites
	Responsible Party Voluntary Action Sites Voluntary Cleanup Priority Listing
State and tribal Brownfield	ds sites
BROWNFIELDS	Brownfields Projects Inventory
ADDITIONAL ENVIRONMENT	AL RECORDS
Local Brownfield lists	
US BROWNFIELDS	A Listing of Brownfields Sites
Local Lists of Landfill / So	olid Waste Disposal Sites
ODI DEBRIS REGION 9	Report on the Status of Open Dumps on Indian Lands
Local Lists of Hazardous	waste / Contaminated Sites
	Delisted National Clandestine Laboratory Register National Clandestine Laboratory Register
Local Land Records	
LIENS 2	CERCLA Lien Information

HMIRS..... Hazardous Materials Information Reporting System

Records of Emergency Release Reports

SPILLS...... Spills Incident Listing

SPILLS 90. SPILLS 90 data from FirstSearch SPILLS 80. SPILLS 80 data from FirstSearch

#### Other Ascertainable Records

FUDS Formerly Used Defense Sites
DOD Department of Defense Sites

SCRD DRYCLEANERS...... State Coalition for Remediation of Drycleaners Listing

US FIN ASSUR..... Financial Assurance Information

EPA WATCH LIST..... EPA WATCH LIST

2020 COR ACTION...... 2020 Corrective Action Program List

TSCA..... Toxic Substances Control Act

TRIS...... Toxic Chemical Release Inventory System

RAATS......RCRA Administrative Action Tracking System

ICIS...... Integrated Compliance Information System

Act)/TSCA (Toxic Substances Control Act)

COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List

PCB TRANSFORMER\_\_\_\_\_\_ PCB Transformer Registration Database

RADINFO...... Radiation Information Database

HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

DOT OPS..... Incident and Accident Data

CONSENT...... Superfund (CERCLA) Consent Decrees

INDIAN RESERV..... Indian Reservations

FUSRAP..... Formerly Utilized Sites Remedial Action Program

UMTRA..... Uranium Mill Tailings Sites

LEAD SMELTERS..... Lead Smelter Sites

US AIRS...... Aerometric Information Retrieval System Facility Subsystem

ABANDONED MINES..... Abandoned Mines

FINDS...... Facility Index System/Facility Registry System
DOCKET HWC..... Hazardous Waste Compliance Docket Listing
UXO....... Unexploded Ordnance Sites

ECHO..... Enforcement & Compliance History Information

FUELS PROGRAM..... EPA Fuels Program Registered Listing

AIRS...... Air Quality Permit Listing

ASBESTOS..... ASBESTOS

COAL ASH...... Coal Ash Disposal Sites DRYCLEANERS..... Drycleaning Sites

Financial Assurance Financial Assurance Information Listing NPDES Facility Location Listing UIC Underground Injection Wells Listing

AOP..... Animal Operation Permits Listing

PCSRP......Petroleum-Contaminated Soil Remediation Permits

SEPT HAULERS...... Permitted Septage Haulers Listing CCB....... Coal Ash Structural Fills (CCB) Listing MINES MRDS...... Mineral Resources Data System

# **EDR HIGH RISK HISTORICAL RECORDS**

#### **EDR Exclusive Records**

EDR MGP..... EDR Proprietary Manufactured Gas Plants

EDR Hist Cleaner..... EDR Exclusive Historical Cleaners

#### **EDR RECOVERED GOVERNMENT ARCHIVES**

#### Exclusive Recovered Govt. Archives

RGA HWS	Recovered Government Archive State Hazardous Waste Facilities List
RGA LF	Recovered Government Archive Solid Waste Facilities List
RGA LUST	Recovered Government Archive Leaking Underground Storage Tank

### **SURROUNDING SITES: SEARCH RESULTS**

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

#### STANDARD ENVIRONMENTAL RECORDS

#### Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 12/16/2019 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CVS PHARMACY #6518	11430 NORTH TRYON ST	NE 1/8 - 1/4 (0.154 mi.)	16	43

RCRA-VSQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-VSQG list, as provided by EDR, and dated 12/16/2019 has revealed that there are

2 RCRA-VSQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARTIN MARIETTA MALL EPA ID:: NCD986195782	575 E MALLARD CREEK	S 1/8 - 1/4 (0.133 mi.)	B12	37
BLYTHE CONSTRUCTION, EPA ID:: NCR000003012	575 MALLARD CREEK CH	S 1/8 - 1/4 (0.240 mi.)	23	63

#### State- and tribal - equivalent CERCLIS

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environment & Natural Resources' Inactive Hazardous Sites Program.

A review of the SHWS list, as provided by EDR, and dated 09/17/2019 has revealed that there is 1 SHWS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GLEN CLARENCE CLINE Facility Id: NONCD0001776	11431 US HIGHWAY 29	NE 1/8 - 1/4 (0.195 mi.)	19	51

# State and tribal landfill and/or solid waste disposal site lists

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Department of Environment & Natural Resources' List of Solid Waste Facility Contacts in Alpha Order.

A review of the SWF/LF list, as provided by EDR, and dated 11/05/2019 has revealed that there are 2 SWF/LF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMPHITHEATER ENTERTA Facility Status: InactiveClosed Permit Num: 60AT-LCID-	707 BLOCKBUSTER ROAD	ENE 1/8 - 1/4 (0.213 mi.)	21	60
KENNETH C. REEVES Facility Status: Open Permit Num: 60S-LCID-	2323 SALOME CHURCH R	NNE 1/4 - 1/2 (0.411 mi.)	24	65

# State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incidents Management Database contains an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environment, & Natural Resources' Incidents by Address.

A review of the LUST list, as provided by EDR, and dated 01/17/2020 has revealed that there are 6

LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SPEEDWAY #7989 Incident Number: 40810 Current Status: File Located in House	10207 N TRYON STREET	W 0 - 1/8 (0.066 mi.)	5	18
GLEN CLARENCE CLINE Incident Phase: Closed Out Incident Number: 17696 Current Status: File Located in Archives	11431 US HIGHWAY 29	NE 1/8 - 1/4 (0.195 mi.)	19	51
THE FLATS AT MALLARD Incident Phase: Closed Out Incident Number: 36758 Current Status: File Located in Archives	523 E MALLARD CREEK	S 1/8 - 1/4 (0.210 mi.)	E20	57
HISTORIC ALEXANDER P Incident Phase: Closed Out Incident Number: 27533 Current Status: File Located in Archives	218 W MALLARD CREEK	WSW 1/8 - 1/4 (0.238 mi.)	22	60
Lower Elevation	Address	Direction / Distance	Map ID	Page
PETRO EXPRESS 57 Incident Phase: Follow Up Incident Number: 27641 Current Status: File Located in House	10000 NORTH TRYON ST	WSW 0 - 1/8 (0.042 mi.)	A2	11
HERLOCKER'S PANTRY Incident Phase: Closed Out Incident Number: 16870 Current Status: File Located in Archives	10515 N TYRON STREET	N 1/8 - 1/4 (0.139 mi.)	D15	41

LAST: A listing of leaking aboveground storage tank site locations.

A review of the LAST list, as provided by EDR, and dated 01/17/2020 has revealed that there is 1 LAST site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ATT CELL TOWER Close Out: 12/13/2016 Incident Number: 91422 Current Status: C	533 EAST MALLARD CRE	S 1/8 - 1/4 (0.186 mi.)	E18	49

LUST TRUST: This database contains information about claims against the State Trust Funds for reimbursements for expenses incurred while remediating Leaking USTs.

A review of the LUST TRUST list, as provided by EDR, and dated 01/03/2020 has revealed that there are 3 LUST TRUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SPEEDWAY #7989	10207 N TRYON STREET	W 0 - 1/8 (0.066 mi.)	5	18

Site	ID:	4081	0

GLEN CLARENCE CLINE Site ID: 17696	11431 US HIGHWAY 29	NE 1/8 - 1/4 (0.195 mi.)	19	51
Lower Elevation	Address	Direction / Distance	Map ID	Page
PETRO EXPRESS 57 Facility Id: 0-031382 Site ID: 27641	10000 NORTH TRYON ST	WSW 0 - 1/8 (0.042 mi.)	A2	11

# State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environment & Natural Resources' Petroleum Underground Storage Tank Database.

A review of the UST list, as provided by EDR, and dated 01/17/2020 has revealed that there are 5 UST sites within approximately 0.25 miles of the target property.

<b>Equal/Higher Elevation</b>	Address	Direction / Distance	Map ID	Page	
QUIKTRIP 1032  Tank Status: Intent to Install Facility Id: 00-0-000039968	11230 N TRYON STREET	NE 0 - 1/8 (0.034 mi.)	1	8	
SPEEDWAY #7989 Tank Status: Current Facility Id: 00-0-0000033633	10207 N TRYON STREET	W 0 - 1/8 (0.066 mi.)	5	18	
7-ELEVEN STORE 35588 Tank Status: Current Facility Id: 00-0-0000036327	10023 N TRYON STREET	WSW 0 - 1/8 (0.123 mi.)	C10	28	
Lower Elevation	Address	Direction / Distance	Map ID	Page	
CIRCLE K 2723971  Tank Status: Current Facility Id: 00-0-0000031382	10000 N TRYON STREET	WSW 0 - 1/8 (0.042 mi.)	A4	16	
HERLOCKER'S AMOCO PA Tank Status: Removed Facility Id: 00-0-0000025113	10515 NORTH TRYON ST	N 1/8 - 1/4 (0.139 mi.)	D14	40	

# State and tribal institutional control / engineering control registries

INST CONTROL: No Further Action Sites With Land Use Restrictions Monitoring.

A review of the INST CONTROL list, as provided by EDR, and dated 09/25/2019 has revealed that there is 1 INST CONTROL site within approximately 0.5 miles of the target property.

Lower Elevation	wer Elevation Address		Map ID	Page	
PETRO EXPRESS 57	10000 NORTH TRYON ST	WSW 0 - 1/8 (0.042 mi.)	A2	11	

### ADDITIONAL ENVIRONMENTAL RECORDS

### Local Lists of Landfill / Solid Waste Disposal Sites

HIST LF: A listing of solid waste facilities.

A review of the HIST LF list, as provided by EDR, and dated 11/06/2006 has revealed that there is 1 HIST LF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page	
AMPHITHEATER ENTERTA Facility Status: OPEN Facility Id: P0404	707 BLOCKBUSTER ROAD	ENE 1/8 - 1/4 (0.213 mi.)	21	60	

### Records of Emergency Release Reports

IMD: Incident Management Database.

A review of the IMD list, as provided by EDR, and dated 01/17/2020 has revealed that there are 7 IMD sites within approximately 0.5 miles of the target property.

<b>Equal/Higher Elevation</b>	Address	Direction / Distance	Map ID	Page
<b>SPEEDWAY #7989</b> Facility Id: 40810	10207 N TRYON STREET	W 0 - 1/8 (0.066 mi.)	5	18
HISTORIC ALEXANDER P Facility Id: 27533	MALLARD CREEK CHURCH	W 1/8 - 1/4 (0.181 mi.)	17	48
GLEN CLARENCE CLINE Facility Id: 17696 Facility Id: 20596	11431 US HIGHWAY 29	NE 1/8 - 1/4 (0.195 mi.)	19	51
THE FLATS AT MALLARD Facility Id: 36758	523 E MALLARD CREEK	S 1/8 - 1/4 (0.210 mi.)	E20	57
HISTORIC ALEXANDER P Facility Id: 27533	218 W MALLARD CREEK	WSW 1/8 - 1/4 (0.238 mi.)	22	60
Lower Elevation	Address	Direction / Distance	Map ID	Page
PETRO EXPRESS 57 Facility Id: 27641	10000 NORTH TRYON ST	WSW 0 - 1/8 (0.042 mi.)	A2	11
HERLOCKER'S PANTRY Facility Id: 16870	10515 N TYRON STREET	N 1/8 - 1/4 (0.139 mi.)	D13	39

#### Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA)

of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 12/16/2019 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NATIONAL TIRE & BATT EPA ID:: NCR000136093	10135 N TRYON ST	WSW 0 - 1/8 (0.072 mi.)	6	23
EXXONMOBIL OIL CORP EPA ID:: NCR000138206	10023 N TRYON ST	WSW 0 - 1/8 (0.123 mi.)	C9	27

US MINES: Mines Master Index File. The source of this database is the Dept. of Labor, Mine Safety and Health Administration.

A review of the US MINES list, as provided by EDR, has revealed that there are 2 US MINES sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARTIN MARIETTA MATE Database: US MINES, Date of Gover Mine ID:: 3102006	nment Version: 11/06/2019	S 0 - 1/8 (0.113 mi.)	В7	26
MALLARD CREEK QUARRY Database: MINES VIOLATIONS, Dat	575 E. MALLARD CREEK e of Government Version: 12/03/201	S 1/8 - 1/4 (0.133 mi.)	B11	31

### **EDR HIGH RISK HISTORICAL RECORDS**

#### **EDR Exclusive Records**

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 2 EDR Hist Auto sites within approximately 0.125 miles of the target property.

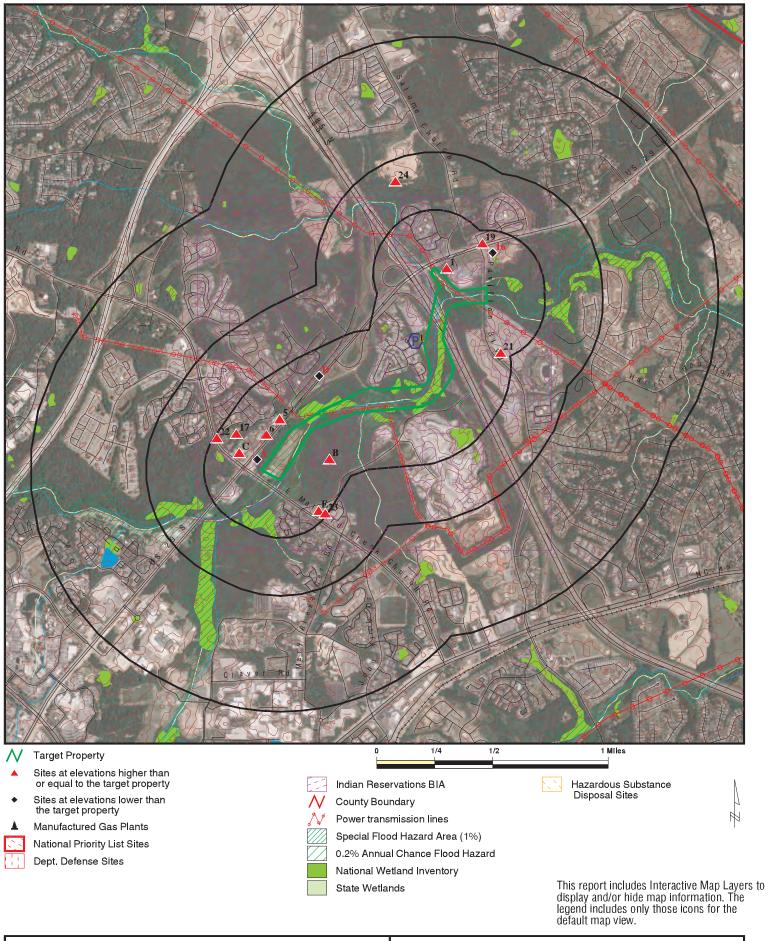
<b>Equal/Higher Elevation</b>	Address	Direction / Distance	Map ID	Page	
EXXON MOBIL CORPORAT	10023 N TRYON ST	WSW 0 - 1/8 (0.123 mi.)	C8	27	
Lower Elevation	Address	Direction / Distance	Map ID	Page	
ACME RETAIL INC	10000 N TRYON ST	WSW 0 - 1/8 (0.042 mi.)	А3	16	

Due to poor or inadequate address information, the following sites were not mapped. Count: 3 records.

Site Name Database(s)

CAROWINDS BLYTHE CONSTRUCTION COMPANY ALEXANDER PROPERTY SWF/LF SWF/LF LUST TRUST

# **OVERVIEW MAP - 6059429.1S**



SITE NAME: XCLT Trail-Mallard Creek Church to Pavilion Blvd

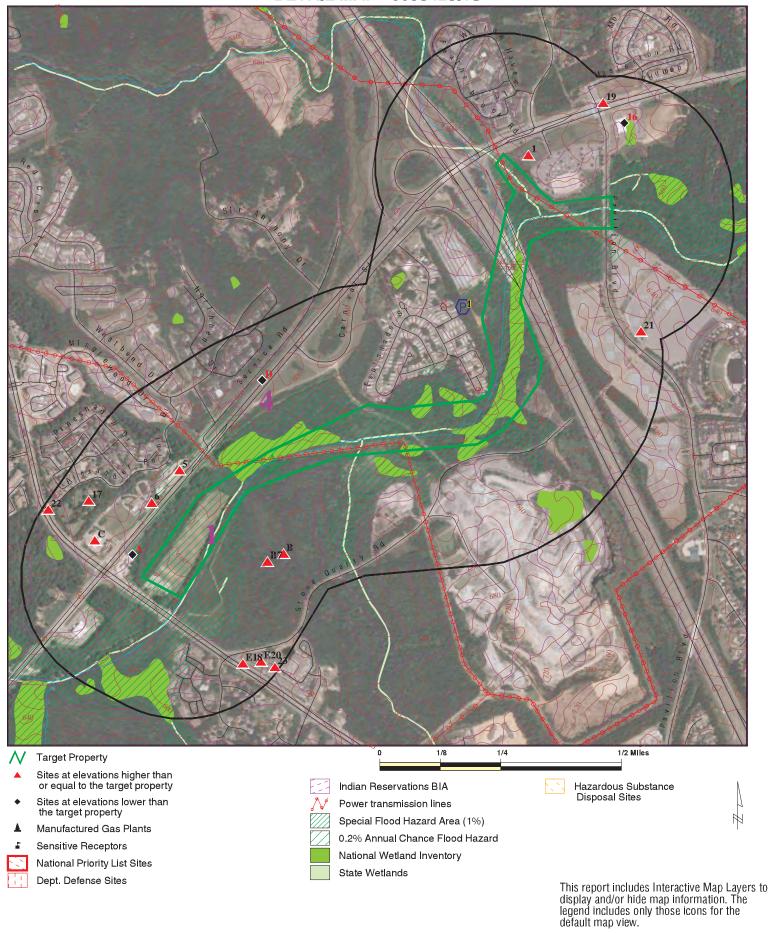
ADDRESS: 201 E Mallard Creek Church Road

Charlotte NC 28262 LAT/LONG: 35.324551 / 80.727886 CLIENT: Wood Environment & Infrastructure Solutions, Inc. CONTACT: Matt Miller

INQUIRY #: 6059429.1s

DATE: May 08, 2020 11:04 am

# **DETAIL MAP - 6059429.1S**



SITE NAME: XCLT Trail-Mallard Creek Church to Pavilion Blvd

ADDRESS: 201 E Mallard Creek Church Road

Charlotte NC 28262 LAT/LONG: 35.324551 / 80.727886 CLIENT: Wood Environment & Infrastructure Solutions, Inc. CONTACT: Matt Miller

INQUIRY #: 6059429.1s

DATE: May 08, 2020 11:04 am

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	Total Plotted
STANDARD ENVIRONMENT	AL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 1.000		0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0
Federal Delisted NPL site	e list							
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY SEMS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Federal CERCLIS NFRAI	P site list							
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRAC	TS facilities li	st						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORI	RACTS TSD fa	acilities list						
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generator	s list							
RCRA-LQG RCRA-SQG RCRA-VSQG	0.250 0.250 0.250		0 0 0	1 0 2	NR NR NR	NR NR NR	NR NR NR	1 0 2
Federal institutional con engineering controls reg								
LUCIS US ENG CONTROLS US INST CONTROLS	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equiva	lent NPL							
NC HSDS	1.000		0	0	0	0	NR	0
State- and tribal - equiva	lent CERCLIS	;						
SHWS	1.000		0	1	0	0	NR	1
State and tribal landfill a solid waste disposal site								
SWF/LF DEBRIS OLI LCID	0.500 0.500 0.500 0.500		0 0 0	1 0 0 0	1 0 0 0	NR NR NR NR	NR NR NR NR	2 0 0 0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
State and tribal leaking s	torage tank l	ists						
LUST LAST INDIAN LUST LUST TRUST	0.500 0.500 0.500 0.500		2 0 0 2	4 1 0 1	0 0 0 0	NR NR NR NR	NR NR NR NR	6 1 0 3
State and tribal registere	d storage tar	nk lists						
FEMA UST UST AST INDIAN UST	0.250 0.250 0.250 0.250		0 4 0 0	0 1 0 0	NR NR NR NR	NR NR NR NR	NR NR NR NR	0 5 0 0
State and tribal institutio control / engineering cor		es						
INST CONTROL	0.500		1	0	0	NR	NR	1
State and tribal voluntary	<del>-</del>	es						
VCP INDIAN VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal Brownfie	lds sites							
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMEN	TAL RECORDS	<u>s</u>						
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / S Waste Disposal Sites	olid							
HIST LF SWRCY INDIAN ODI ODI DEBRIS REGION 9 IHS OPEN DUMPS	0.500 0.500 0.500 0.500 0.500 0.500		0 0 0 0 0	1 0 0 0 0 0	0 0 0 0 0	NR NR NR NR NR	NR NR NR NR NR	1 0 0 0 0 0
Local Lists of Hazardous Contaminated Sites	waste /							
US HIST CDL US CDL	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency R	<del>-</del>	rts						
HMIRS SPILLS IMD	TP TP 0.500		NR NR 2	NR NR 5	NR NR 0	NR NR NR	NR NR NR	0 0 7

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SPILLS 90 SPILLS 80	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
Other Ascertainable Red	cords							
RCRA NonGen / NLR	0.250		2	0	NR	NR	NR	2
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS US FIN ASSUR	0.500 TP		0 NR	0 NR	0 NR	NR NR	NR NR	0 0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	ő
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD RMP	1.000 TP		0 NR	0 NR	0 NR	0 NR	NR NR	0 0
RAATS	TP		NR	NR	NR NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	Ő
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS COAL ASH DOE	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	Ö
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV FUSRAP	1.000 1.000		0 0	0 0	0 0	0 0	NR NR	0 0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	Ō
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		1	1	NR	NR	NR	2
ABANDONED MINES FINDS	0.250 TP		0 ND	0 NR	NR NR	NR NR	NR NR	0
DOCKET HWC	TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
UXO	1.000		0	0	0	0	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
COAL ASH DRYCLEANERS	0.500 0.250		0 0	0 0	0 NR	NR NR	NR NR	0 0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	Ö
UIC	TP		NR	NR	NR	NR	NR	0
AOP	TP		NR	NR	NR	NR	NR	0
PCSRP	0.500		0	0	0	NR	NR	0
SEPT HAULERS	TP		NR	NR	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CCB MINES MRDS	0.500 TP		0 NR	0 NR	0 NR	NR NR	NR NR	0 0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP EDR Hist Auto EDR Hist Cleaner	1.000 0.125 0.125		0 2 0	0 NR NR	0 NR NR	0 NR NR	NR NR NR	0 2 0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA HWS RGA LF RGA LUST	TP TP TP		NR NR NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	0 0 0
- Totals		0	16	19	1	0	0	36

# NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

**QUIKTRIP 1032** UST U004227852 ΝE

11230 N TRYON STREET **Financial Assurance** N/A CHARLOTTE, NC 28262

< 1/8 0.034 mi. 179 ft.

Relative: UST: Higher QUIKTRIP 1032 Name:

11230 N TRYON STREET Address: Actual: City,State,Zip: CHARLOTTE, NC 28262 608 ft. Facility Id: 00-0-0000039968

> Contact: QUIKTRIP CORPORATION Contact Address1: 4705 S 129TH EAST AVE Contact Address2: ATTN: MOLLY WRATZ Contact City/State/Zip: TULSA, OK 74134-7005

Mecklenburg FIPS County Desc: Latitude: 35.33417 Longitude: -80.71842

Tank Id:

Tank Status: Intent to Install Installed Date: 01/30/2016 Perm Close Date: Not reported Product Name: Gasoline, Gas Mix

20000 Tank Capacity: Root Tank Id: Not reported

Main Tank: No Compartment Tank: No Manifold Tank: 0 Commercial: No Regulated: Yes

Other CP Tank: Not reported Overfill Protection Name: Auto Shutoff Device Spill Protection Name: Catchment Basin

**ELLD** Leak Detection Name:

Double Wall FRP Decode for TCONS\_KEY: Decode for PCONS\_KEY: **Double Wall Flex** Decode for PSYS\_KEY: Pressurized System

Tank Id: 2

Tank Status: Intent to Install Installed Date: 01/30/2016 Perm Close Date: Not reported Product Name: Gasoline, Gas Mix

20000 Tank Capacity: Root Tank Id: Not reported Main Tank: Yes

Compartment Tank: Yes Manifold Tank: 0 Commercial: No Regulated: Yes

Other CP Tank: Not reported Overfill Protection Name: Auto Shutoff Device Spill Protection Name: Catchment Basin

Leak Detection Name: **ELLD** 

Double Wall FRP Decode for TCONS KEY: Decode for PCONS KEY: Double Wall FRP Decode for PSYS\_KEY: Pressurized System Map ID MAP FINDINGS

Direction Distance Elevation

ance EDR ID Number vation Site Database(s) EPA ID Number

#### QUIKTRIP 1032 (Continued)

U004227852

Tank Id: 2A

Tank Status: Intent to Install
Installed Date: 03/15/2015
Perm Close Date: Not reported
Product Name: Gasoline, Gas Mix

Tank Capacity: 12000
Root Tank Id: Not reported
Main Tank: Yes
Compartment Tank: Yes

Compartment Tank: Yes
Manifold Tank: 0
Commercial: No
Regulated: Yes

Other CP Tank: Not reported
Overfill Protection Name: Auto Shutoff Device
Spill Protection Name: Catchment Basin

Leak Detection Name: MLLD

Decode for TCONS\_KEY: Double Wall FRP
Decode for PCONS\_KEY: Double Wall Flex
Decode for PSYS\_KEY: Pressurized System

Tank ld: 2B

Tank Status: Intent to Install Installed Date: 03/15/2015 Perm Close Date: Not reported Product Name: Diesel Tank Capacity: 8000 Root Tank Id: 330624 Main Tank: No Compartment Tank: Yes Manifold Tank: 0 Commercial: No Regulated: Yes

Other CP Tank: Not reported
Overfill Protection Name: Auto Shutoff Device
Spill Protection Name: Catchment Basin

Leak Detection Name: MLLD

Decode for TCONS\_KEY: Double Wall FRP
Decode for PCONS\_KEY: Double Wall Flex
Decode for PSYS\_KEY: Pressurized System

Tank ld: 3

Tank Status: Intent to Install Installed Date: 03/15/2015
Perm Close Date: Not reported
Product Name: Gasoline, Gas Mix

Tank Capacity: 10000
Root Tank Id: Not reported

Main Tank: No
Compartment Tank: No
Manifold Tank: 0
Commercial: No
Regulated: Yes

Other CP Tank: Not reported
Overfill Protection Name: Auto Shutoff Device
Spill Protection Name: Catchment Basin

Map ID MAP FINDINGS

Direction Distance Elevation

tion Site Database(s) EPA ID Number

#### QUIKTRIP 1032 (Continued)

U004227852

**EDR ID Number** 

Leak Detection Name: MLLD

Decode for TCONS\_KEY: Double Wall FRP
Decode for PCONS\_KEY: Double Wall Flex
Decode for PSYS\_KEY: Pressurized System

Tank Id: 3A

Tank Status: Intent to Install
Installed Date: 01/30/2016
Perm Close Date: Not reported
Product Name: Gasoline, Gas Mix

Tank Capacity: 10000
Root Tank Id: Not reported

Main Tank: Yes
Compartment Tank: Yes
Manifold Tank: 0
Commercial: No
Regulated: Yes

Other CP Tank: Not reported

Overfill Protection Name: Auto Shutoff Device

Spill Protection Name: Catchment Basin

Leak Detection Name: ELLD

Decode for TCONS\_KEY: Double Wall FRP
Decode for PCONS\_KEY: Double Wall FRP
Decode for PSYS\_KEY: Manifold Bar

Tank ld: 3B

Tank Status: Intent to Install
Installed Date: 01/30/2016
Perm Close Date: Not reported
Product Name: Gasoline, Gas Mix

Tank Capacity: 9500
Root Tank Id: 348462
Main Tank: No
Compartment Tank: Yes
Manifold Tank: 0
Commercial: No
Regulated: Yes

Other CP Tank: Not reported
Overfill Protection Name: Auto Shutoff Device
Spill Protection Name: Catchment Basin

Leak Detection Name: ELLD

Decode for TCONS\_KEY: Double Wall FRP
Decode for PCONS\_KEY: Double Wall Flex
Pressurized System

Tank ld:

Tank Status: Intent to Install Installed Date: 01/30/2016
Perm Close Date: Not reported Product Name: Diesel Tank Capacity: 12000
Root Tank Id: Not reported

Main Tank: No Compartment Tank: No

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

QUIKTRIP 1032 (Continued) U004227852

Manifold Tank: 0 Commercial: No Regulated: Yes

Other CP Tank: Not reported Overfill Protection Name: Auto Shutoff Device Catchment Basin Spill Protection Name:

**ELLD** Leak Detection Name:

Double Wall FRP Decode for TCONS\_KEY: Decode for PCONS KEY: **Double Wall Flex** Decode for PSYS\_KEY: Pressurized System

NC Financial Assurance 1:

QUIKTRIP 1032 Name:

Address: 11230 N TRYON STREET City,State,Zip: CHARLOTTE, NC 28262

Facility ID: 00-0-0000039968

Region:

Financial Responsibility Desc: Self-Insurance Financial Responsibility Name: Quiktrip Corporation Started Date: Not reported Ended Date: Not reported

**PETRO EXPRESS 57 A2** wsw **10000 NORTH TRYON STREET** < 1/8 CHARLOTTE, NC 28262 0.042 mi.

223 ft. Site 1 of 3 in cluster A

LUST: Relative: Lower Name:

PETRO EXPRESS 57 Address: 10000 NORTH TRYON STREET Actual:

City, State, Zip: CHARLOTTE, NC 28262 587 ft.

Facility ID: 00-0-000 UST Number: MO-6921 Incident Number: 27641

Contamination Type: GW Source Type: Leak-underground

Product Type: Р

Date Reported: 01/16/2004 Date Occur: 01/13/2004 Cleanup: 01/13/2004 Closure Request: Not reported Not reported Close Out:

Level Of Soil Cleanup Achieved: Not reported

Tank Regulated Status:

# Of Supply Wells:

Commercial/NonCommercial UST Site: COMMERCIAL

Risk Classification: U Risk Class Based On Review: L

Corrective Action Plan Type: Not reported

NOV Issue Date: Not reported NORR Issue Date: Not reported Site Priority: Not reported

Phase Of LSA Reg:

Site Risk Reason: Gross contaminant levels Land Use: Industrial/commercial

MTBE: No S106195914

N/A

LUST

**IMD** 

**LUST TRUST** 

**INST CONTROL** 

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

#### PETRO EXPRESS 57 (Continued)

S106195914

MTBE1: Yes Flag: No Flag1: No LUR Filed: 10/13/2017

Release Detection:

**Current Status:** File Located in House

**RBCA GW:** Not reported

PETOPT: RPL: False CD Num: 0 Reel Num: 0 RPOW: True RPOP: False Error Flag:

Error Code: Not reported

Valid: False Lat/Long Decimal: 35.3216 -80.7334

Testlat: Not reported DPB Regional Officer Project Mgr:

MOR Region: Company: THE PANTRY INC.

Contact Person: **BRENT PUZAK** Telephone: 7045254850 RP Address: 305 GREGSON DRIVE

RP City,St,Zip: CARY, NC 27511 RP County: Not reported

Comments: Property trnasfer sampling revealed release. System test and Site

Check required.

5 Min Quad: Not reported

PIRF:

Facility Id: 27641 Date Occurred: 1/13/2004 Date Reported: 1/16/2004

Description Of Incident: Property transfer sampling revealed release.

Owner/Operator: Not reported

Ownership: Operation Type: 6 Type: 3 Location: 1

Site Priority: Not reported Priority Update: Not reported

Wells Affected Y/N: Ν

Samples Include: Not reported

7#5 Minute Quad:

5 Minute Quad: Not reported Pirf/Min Soil: Not reported Release Code: Not reported Not reported Source Code:

Err Type: 3

Cause: Not reported

Source: Е Ust Number: Е

Last Modified: Not reported Incident Phase: Follow Up NOV Issued: Not reported Not reported NORR Issued:

Map ID MAP FINDINGS
Direction

Distance

Elevation Site Database(s) EPA ID Number

#### PETRO EXPRESS 57 (Continued)

S106195914

**EDR ID Number** 

45 Day Report: Not reported Public Meeting Held: Not reported Corrective Action Planned: Not reported SOC Signed: Not reported Reclassification Report: Not reported RS Designation: Not reported Closure Request Date: Not reported Close-out Report: Not reported

Click here to access the North Carolina DEQ records for this facility:

LUST TRUST:

Name: PETRO EXPRESS 57

Address: 10000 NORTH TRYON STREET

City, State, Zip: CHARLOTTE, NC

Facility ID: 0-031382 Site ID: 27641

Site Note: Commercial; \$20,000 deductible; 100% eligible for costs that exceed

the \$20,000 deductible.[CGS 11/22/11]

Site Eligible?: True

Commercial Find: 100% Commercial Priority Rank: Not reported Deductable Amount: 20000 3rd Party Deductable Amt: 0

Sum 3rd Party Amt Applied: 0

INST CONTROL:

Name: PETRO EXPRESS 57

Address: 10000 NORTH TRYON STREET

City,State,Zip: CHARLOTTE, NC

Project Number: MO-6921 Object ID: 3786

DWM Contact: Mooresville Regional Office (704) 663-1699

DWM Program: Underground Storage Tank Section

Project Status: Open
COC: Multi COC
Contamination Source: UST System
Received Date: 10/12/2017
Restricted Media: Multi-Media

Allowed Use: Media Restrictions Only

Certification:
Plant Reception Date:
Instrument Status:
Deed BK:
Deed PG:
Plat BK:
Plat BK:
Not reported
Not reported
Not reported
Not reported
Not reported
Not reported
Plat BK:
Not reported
Not reported
Plat PG:
Not reported

Instrument: Notice and Restriction

Deed: Not reported
Deed Date: Recorded 10-12-2017

 Plat:
 Not reported

 Plat Date:
 Not reported

 X Coord:
 1482966.8681

 Y Coord:
 576494.2163

Map ID MAP FINDINGS

Direction Distance

Elevation Site Database(s) EPA ID Number

#### PETRO EXPRESS 57 (Continued)

S106195914

**EDR ID Number** 

IMD:

Name: PETRO EXPRESS 57

Address: 10000 NORTH TRYON STREET

City: CHARLOTTE
Region: MOR
Facility ID: 27641
Date Occurred: 1/13/2004
Submit Date: 1/16/2004

GW Contam: Yes, Groundwater Contamination has been detected

Soil Contam: No

Incident Desc: Property transfer sampling revealed release.

Operator: TOMMY HALL
Contact Phone: 7045254850
Owner Company: Petro Express

Operator Address:Post Office Box 240606

Operator City: Charlotte

Oper City, St, Zip: Charlotte, NC 28224

Ownership: Private
Operation: Commercial
Material: Not reported
Qty Lost 1: Not reported
Qty Recovered 1: Not reported
Source: Leak-underground
Type: Gasoline/diesel

Location: Facility
Setting: Not reported
Risk Site: Unknown
Site Priority: Not reported
Priority Code: Not reported
Priority Update: Not reported
Dem Contact: CBC

Wells Affected: No

Num Affected: Not reported Wells Contam: Not reported

Sampled By:

Samples Include: Not reported

7.5 Min Quad: Not reported 5 Min Quad: Not reported Not reported Latitude: Not reported Longitude: Not reported Latitude Number: Longitude Number: Not reported Latitude Decimal: Not reported Longitude Decimal: Not reported

GPS: DWM Agency: Facility ID: 27641 Last Modified: Not reported Incident Phase: Follow Up NOV Issued: Not reported NORR Issued: Not reported 45 Day Report: Not reported Public Meeting Held: Not reported Corrective Action Planned: Not reported SOC Sighned: Not reported Reclassification Report: Not reported RS Designation: Not reported Map ID MAP FINDINGS

Direction Distance

Elevation Site Database(s) EPA ID Number

#### PETRO EXPRESS 57 (Continued)

S106195914

**EDR ID Number** 

Closure Request Date: Not reported Close-out Report: Not reported

Name: PETRO EXPRESS 57

Address: 10000 NORTH TRYON STREET

City: CHARLOTTE
Region: Not reported
Facility ID: 27641
Date Occurred: 1/13/2004
Submit Date: 1/16/2004
GW Contam: Not reported
Soil Contam: Not reported

Incident Desc: Property transfer sampling revealed release.

Operator: Not reported Contact Phone: Not reported Owner Company: Not reported Operator Address:Not reported Operator City: Not reported Oper City, St, Zip: Not reported Ownership: Private Operation: Commercial Material: Not reported Qty Lost 1: Not reported Qty Recovered 1: Not reported Source: Not reported Type: Gasoline/diesel Location: Facility

Location: Facility
Setting: Not reported
Risk Site: Not reported
Site Priority: Not reported
Priority Code: Not reported
Priority Update: Not reported
Dem Contact: Not reported

Wells Affected: No

Num Affected: Not reported Wells Contam: Not reported

Sampled By: Y

Samples Include: Not reported

7.5 Min Quad: Not reported 5 Min Quad: Not reported

Latitude: 35.321620000000003 Longitude: -80.73342999999998

Latitude Number: Not reported Not reported Longitude Number: Latitude Decimal: Not reported Longitude Decimal: Not reported GPS: Not reported Agency: Not reported Facility ID: 27641 Last Modified: Not reported Incident Phase: Follow Up Not reported NOV Issued: NORR Issued: Not reported 45 Day Report: Not reported Public Meeting Held: Not reported Corrective Action Planned: Not reported

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

PETRO EXPRESS 57 (Continued)

SOC Sighned: Not reported Reclassification Report: Not reported RS Designation: Not reported Closure Request Date: Not reported Close-out Report: Not reported

А3 **ACME RETAIL INC EDR Hist Auto** 1020582357 **WSW** 10000 N TRYON ST

Type:

N/A

S106195914

CHARLOTTE, NC 28262 < 1/8 0.042 mi.

223 ft.

Site 2 of 3 in cluster A

Relative: Lower

**EDR Hist Auto** 

Year: Name: Actual:

1996 ACME RETAIL INC Gasoline Service Stations, NEC 587 ft.

1997 ACME RETAIL INC Gasoline Service Stations, NEC 1998 ACME RETAIL INC Gasoline Service Stations, NEC ACME RETAIL INC Gasoline Service Stations, NEC 1999 2000 ACME RETAIL INC Gasoline Service Stations, NEC 2001 ACME RETAIL INC Gasoline Service Stations, NEC 2002 ACME RETAIL INC Gasoline Service Stations, NEC 2003 ACME RETAIL INC Gasoline Service Stations, NEC 2004 ACME RETAIL INC Gasoline Service Stations, NEC Gasoline Service Stations, NEC 2005 ACME RETAIL INC 2006 ACME RETAIL INC Gasoline Service Stations, NEC 2007 ACME RETAIL INC Gasoline Service Stations, NEC 2008 ACME RETAIL INC Gasoline Service Stations, NEC 2009 ACME RETAIL INC Gasoline Service Stations, NEC 2010 ACME RETAIL INC Gasoline Service Stations, NEC 2011 ACME RETAIL INC Gasoline Service Stations, NEC Gasoline Service Stations, NEC 2012 ACME RETAIL INC

Α4 **CIRCLE K 2723971** UST U003146832 wsw **10000 N TRYON STREET Financial Assurance** N/A

0.042 mi.

< 1/8

223 ft. Site 3 of 3 in cluster A

CHARLOTTE, NC 28262

UST: Relative:

Lower **CIRCLE K 2723971** Name: Address: 10000 N TRYON STREET Actual: City, State, Zip: CHARLOTTE, NC 28262 587 ft. Facility Id: 00-0-0000031382

Contact: CIRCLE K STORES INC.

Contact Address1: 2550 W. TYVOLA ROAD, SUITE 200

Contact Address2: Not reported

Contact City/State/Zip: CHARLOTTE, NC 28217-4579

FIPS County Desc: Mecklenburg Latitude: 35.32138 Longitude: -80.73350

Tank Id: Tank Status: Current Installed Date: 01/01/1989

Direction Distance

Elevation Site Database(s) EPA ID Number

## CIRCLE K 2723971 (Continued)

U003146832

**EDR ID Number** 

Perm Close Date: Not reported
Product Name: Oil, New/Used/Mix

Tank Capacity: 10000 Root Tank Id: Not reported

Main Tank: No
Compartment Tank: No
Manifold Tank: 0
Commercial: Yes
Regulated: Yes
Other CR Tank: Not re

Other CP Tank:

Overfill Protection Name:

Spill Protection Name:

Leak Detection Name:

Decode for TCONS\_KEY:

Decode for PCONS\_KEY:

Decode for PSYS\_KEY:

Decode for PSYS\_KEY:

Overfill Protection Name:

Catchment Basin

Not reported

Single Wall Steel

Single Wall FRP

Pressurized System

Tank ld: 2

Tank Status: Current
Installed Date: 12/31/1989
Perm Close Date: Not reported
Product Name: Gasoline, Gas Mix

Tank Capacity: 10000
Root Tank Id: Not reported

Main Tank: No
Compartment Tank: No
Manifold Tank: 0
Commercial: Yes
Regulated: Yes

Other CP Tank:

Overfill Protection Name:

Spill Protection Name:

Leak Detection Name:

Decode for TCONS\_KEY:

Decode for PSYS\_KEY:

Not reported

Catchment Basin

Not reported

Single Wall Steel

Single Wall FRP

Pressurized System

Tank Id: 3
Tank Status: Current
Installed Date: 12/31/1989
Perm Close Date: Not reported
Product Name: Gasoline, Gas Mix

Tank Capacity: 10000
Root Tank Id: Not reported

Main Tank:

Compartment Tank:

No
Manifold Tank:

Commercial:

Regulated:

Yes

Other CP Tank:

No
No

Other CP Tank:

Overfill Protection Name:

Spill Protection Name:

Leak Detection Name:

Decode for TCONS\_KEY:

Decode for PCONS\_KEY:

Not reported

Catchment Basin

Not reported

Single Wall Steel

Single Wall FRP

Direction Distance

Elevation Site Database(s) EPA ID Number

CIRCLE K 2723971 (Continued)

Decode for PSYS\_KEY: Pressurized System

Tank Id: 4
Tank Status: Current
Installed Date: 12/31/1989
Perm Close Date: Not reported
Product Name: Gasoline, Gas Mix

Tank Capacity: 6000
Root Tank Id: Not reported

Main Tank: No
Compartment Tank: No
Manifold Tank: 0
Commercial: Yes
Regulated: Yes

Other CP Tank:

Overfill Protection Name:

Spill Protection Name:

Leak Detection Name:

Decode for TCONS\_KEY:

Decode for PSYS\_KEY:

Not reported

Catchment Basin

Not reported

Single Wall Steel

Single Wall FRP

Pressurized System

NC Financial Assurance 1:

 Name:
 CIRCLE K 2723971

 Address:
 10000 N TRYON STREET

 City,State,Zip:
 CHARLOTTE, NC 28262

 Facility ID:
 00-0-0000031382

Region: 1

Financial Responsibility Desc: Letter of Credit Financial Responsibility Name:Wells Fargo Bank, N.A.

Started Date: 03/10/2013 Ended Date: 03/10/2014

SPEEDWAY #7989 LUST U001823972

West 10207 N TRYON STREET < 1/8 CHARLOTTE, NC 28262 0.066 mi.

351 ft.

IMD Financial Assurance

 Relative:
 LUST:

 Higher
 Name:
 SPEEDWAY 7989

 Actual:
 Address:
 10207 N TRYON ST

 611 ft.
 City,State,Zip:
 CHARLOTTE, NC 28262

Facility ID: Not reported UST Number: MO-9353 Incident Number: 40810

Contamination Type: SL Source Type: Leak-underground

Product Type:

Date Reported: 03/13/2018
Date Occur: 02/13/2018
Cleanup: 02/13/2018
Closure Request: Not reported
Close Out: Not reported

Level Of Soil Cleanup Achieved: Not reported

Tank Regulated Status: R

**LUST TRUST** 

UST

N/A

**EDR ID Number** 

U003146832

Direction Distance

Elevation Site Database(s) EPA ID Number

SPEEDWAY #7989 (Continued)

U001823972

**EDR ID Number** 

# Of Supply Wells: 0

Commercial/NonCommercial UST Site: COMMERCIAL

Risk Classification:

Risk Class Based On Review:

Corrective Action Plan Type: Not reported NOV Issue Date: Not reported

NORR Issue Date: Not reported Site Priority: Not reported Phase Of LSA Req: Not reported Site Risk Reason: Surface water Land Use: Not reported MTBE: No MTBE1: Unknown Flag: Yes Flag1:

LUR Filed: Not reported

Release Detection: 0

Current Status: File Located in House

RBCA GW: Not reported

PETOPT: 3 RPL: False CD Num: 0 Reel Num: 0 RPOW: False RPOP: False Error Flag: 0 Error Code: Ν Valid: False

35.3245 -80.7312 Lat/Long Decimal: Testlat: Not reported Regional Officer Project Mgr: DPB Region: MOR Company: Not reported Contact Person: Not reported Not reported Telephone: RP Address: Not reported

RP City,St,Zip: NC

RP County: Not reported

Comments: Not reported 5 Min Quad: Not reported

PIRF:

Facility Id: 40810
Date Occurred: 2/13/2018
Date Reported: 3/13/2018
Description Of Incident: Not reported
Owner/Operator: Not reported

Ownership: 4
Operation Type: 6
Type: 3
Location: 1

Site Priority: Not reported Priority Update: Not reported

Wells Affected Y/N: N

Samples Include: Not reported

7#5 Minute Quad:

5 Minute Quad: Not reported Pirf/Min Soil: Not reported

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

#### SPEEDWAY #7989 (Continued)

U001823972

Release Code: Not reported Not reported Source Code:

Err Type: 7 Cause: Source: Α Ρ Ust Number:

Last Modified: Not reported Incident Phase: Not reported NOV Issued: Not reported NORR Issued: Not reported Not reported 45 Day Report: Public Meeting Held: Not reported Corrective Action Planned: Not reported SOC Signed: Not reported Reclassification Report: Not reported Not reported RS Designation: Closure Request Date: Not reported Close-out Report: Not reported

Click here to access the North Carolina DEQ records for this facility:

LUST TRUST:

SPEEDWAY 7989 Name: Address: 10207 N TRYON ST City,State,Zip: CHARLOTTE, NC Facility ID: Not reported Site ID: 40810

Site Note: Commercial; \$20,000 deductible; 100% eligible for cost that exceed the

\$20K deductible per eligibility letter dated 3/7/2019. HT

Site Eligible?: True

Commercial Find: 100% Commercial Priority Rank: Not reported Deductable Amount: 20000 3rd Party Deductable Amt:

Sum 3rd Party Amt Applied: 0

UST:

SPEEDWAY #7989 Name: Address: 10207 N TRYON STREET CHARLOTTE, NC 28262 City,State,Zip: Facility Id: 00-0-0000033633 Contact: SPEEDWAY LLC

Contact Address1: 500 SPEEDWAY DRIVE

Contact Address2: Not reported Contact City/State/Zip: ENON, OH 45323-1026

FIPS County Desc: Mecklenburg Latitude: 35.32460 Longitude: -80.73136

Tank Id:

Tank Status: Current Installed Date: 11/10/1990 Perm Close Date: Not reported Product Name: Gasoline, Gas Mix

Tank Capacity: 10000

Direction
Distance
Elevation

tion Site Database(s) EPA ID Number

## SPEEDWAY #7989 (Continued)

U001823972

**EDR ID Number** 

Root Tank Id: Not reported

Main Tank:NoCompartment Tank:NoManifold Tank:0Commercial:YesRegulated:Yes

Other CP Tank:

Overfill Protection Name:

Spill Protection Name:

Leak Detection Name:

Decode for TCONS\_KEY:

Decode for PCONS\_KEY:

Decode for PSYS\_KEY:

Decode for PSYS\_KEY:

Overfill Protection Name:

Catchment Basin

Not reported

Single Wall Steel

Single Wall FRP

Unknown

Tank Id: 2
Tank Status: Current
Installed Date: 11/10/1990
Perm Close Date: Not reported
Product Name: Gasoline, Gas Mix

Tank Capacity: 10000 Root Tank Id: Not reported

Main Tank: No
Compartment Tank: No
Manifold Tank: 0
Commercial: Yes
Regulated: Yes

Other CP Tank:
Overfill Protection Name:
Spill Protection Name:
Leak Detection Name:
Decode for TCONS\_KEY:
Decode for PCONS\_KEY:
Decode for PSYS\_KEY:

Not reported
Catchment Basin
Not reported
Single Wall Steel
Single Wall FRP
Unknown

Tank Id: 3
Tank Status: Current
Installed Date: 11/10/1990
Perm Close Date: Not reported
Product Name: Gasoline, Gas Mix

Tank Capacity: 10000
Root Tank Id: Not reported

Main Tank: No
Compartment Tank: No
Manifold Tank: 0
Commercial: Yes
Regulated: Yes

Other CP Tank:

Overfill Protection Name:

Spill Protection Name:

Leak Detection Name:

Decode for TCONS\_KEY:

Decode for PCONS\_KEY:

Decode for PSYS\_KEY:

Not reported

Catchment Basin

Not reported

Single Wall Steel

Single Wall FRP

Unknown

Direction Distance Elevation

stance EDR ID Number evation Site Database(s) EPA ID Number

#### SPEEDWAY #7989 (Continued)

U001823972

Tank Id: 4
Tank Status: Current
Installed Date: 11/10/1990
Perm Close Date: Not reported
Product Name: Diesel
Tank Capacity: 8000
Root Tank Id: Not reported

Main Tank:NoCompartment Tank:NoManifold Tank:0Commercial:YesRegulated:Yes

Other CP Tank:

Overfill Protection Name:

Spill Protection Name:

Leak Detection Name:

Decode for TCONS\_KEY:

Decode for PCONS\_KEY:

Decode for PSYS\_KEY:

Overfill Protection Name:

Catchment Basin

Not reported

Single Wall Steel

Single Wall FRP

Unknown

#### IMD:

SPEEDWAY 7989 Name: Address: 10207 N TRYON ST CHARLOTTE City: Region: Not reported Facility ID: 40810 Date Occurred: 2/13/2018 Submit Date: 3/13/2018 GW Contam: Not reported Soil Contam: Not reported

Incident Desc: Not reported Operator: Not reported Contact Phone: Not reported Owner Company: Not reported Operator Address:Not reported Operator City: Not reported Oper City, St, Zip: Not reported Ownership: Private Operation: Commercial Material: Not reported Not reported Qty Lost 1:

Type: Gasoline/diesel Location: Facility Setting: Not reported Risk Site: Not reported Site Priority: Not reported Priority Code: Not reported Priority Update: Not reported Dem Contact: Not reported

Qty Recovered 1: Not reported

Not reported

Source:

Wells Affected: No

Num Affected: Not reported Wells Contam: Not reported

Sampled By: Y

Samples Include: Not reported

7.5 Min Quad: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

SPEEDWAY #7989 (Continued)

U001823972

**EDR ID Number** 

5 Min Quad: Not reported

Latitude: 35.324509999999997 Longitude: -80.731258999999994

Latitude Number: Not reported Longitude Number: Not reported Latitude Decimal: Not reported Not reported Longitude Decimal: GPS: Not reported Not reported Agency: Facility ID: Not reported Last Modified: Not reported Incident Phase: Not reported NOV Issued: Not reported NORR Issued: Not reported 45 Day Report: Not reported Public Meeting Held: Not reported Corrective Action Planned: Not reported SOC Sighned: Not reported Reclassification Report: Not reported **RS** Designation: Not reported Closure Request Date: Not reported Close-out Report: Not reported

NC Financial Assurance 1:

 Name:
 SPEEDWAY #7989

 Address:
 10207 N TRYON STREET

 City,State,Zip:
 CHARLOTTE, NC 28262

 Facility ID:
 00-0-000033633

Region: 1

Financial Responsibility Desc: Self-Insurance
Financial Responsibility Name:WilcoHess LLC
Started Date: Not reported
Ended Date: Not reported

NATIONAL TIRE & BATTERY #7328

RCRA NonGen / NLR 1004747129 ECHO NCR000136093

WSW 10135 N TRYON ST < 1/8 CHARLOTTE, NC 28262 0.072 mi.

Relative: RCRA NonGen / NLR:

378 ft.

Higher Date form received by agency: 2019-12-06 00:00:00.0

Actual: Facility name: NATIONAL TIRE & BATTERY #7328

611 ft. Facility address: 10135 N TRYON ST

CHARLOTTE, NC 28262

EPA ID: NCR000136093
Mailing address: PROFESSIONAL CENTER DR STE 400

PALM BEACH GARDENS, FL 33410

Contact: AARON ENGI

Contact address: PROFESSIONAL CENTER DR STE 400

PALM BEACH GARDENS, FL 33410

Contact country: US

Contact telephone: 561-383-3000

Telephone ext.: 2517

Contact email: EHS@TBCCORP.COM

EPA Region: 04

Direction Distance Elevation

ation Site Database(s) EPA ID Number

## NATIONAL TIRE & BATTERY #7328 (Continued)

1004747129

**EDR ID Number** 

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: TCC-BTS ALEXANDER POINTE, INC

Owner/operator address: 7535 E HAMPDEN AVE DENVER, CO 80231

Owner/operator country: Not reported
Owner/operator telephone: 303-220-0900
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner

Owner/Op start date: 1776-01-01 00:00:00.

Owner/Op end date: Not reported

Owner/operator name: CHILLUM PROPERTY ASSOCIATES, LLC

Owner/operator address: EAST 79TH STREET #17E

NEW YORK, NY 10075

Owner/operator country: US

Owner/operator telephone: 917-969-1656
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Legal status: Private
Owner/Operator Type:

Owner/Operator Type: Owner

Owner/Op start date: 2001-06-15 00:00:00.

Owner/Op end date: Not reported

Owner/operator name: MERCHANTS LLC

Owner/operator address: PROFESSIONAL CENTER DR STE 400 PALM BEACH GARDENS, FL 33410

Owner/operator country: US

Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Private Owner/Operator Type: Operator

Owner/Op start date: 2017-06-30 00:00:00.

Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No

Mixed waste (haz. and radioactive): Not reported

Recycler of hazardous waste: No Transporter of hazardous waste: No No Treater, storer or disposer of HW: Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No

Direction Distance

Elevation Site Database(s) EPA ID Number

## NATIONAL TIRE & BATTERY #7328 (Continued)

1004747129

**EDR ID Number** 

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 2018-12-05 00:00:00.0

Site name: NATIONAL TIRE & BATTERY #7328

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 2017-07-06 00:00:00.0

Site name: MERCHANTS LLC D/B/A TIRE KINGDOM #328
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 2015-04-07 00:00:00.0

Site name: MERCHANTS LLC D/B/A TIRE KINGDOM #328
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 2011-11-21 00:00:00.0

Site name: MERCHANT'S TIRE & AUTO #328

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 2003-03-24 00:00:00.0

Site name: MERCHANT'S TIRE & AUTO #6039

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 2003-03-24 00:00:00.0

Site name: MERCHANT'S TIRE & AUTO #6039

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 2001-03-30 00:00:00.0

Site name: MERCHANT'S TIRE & AUTO #6039

Classification: Conditionally Exempt Small Quantity Generator

#### Hazardous Waste Summary:

. Waste code: D001

. Waste name: IGNITABLE WASTE

Waste code: D008
Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: D018
Waste name: BENZENE

Waste code: D039

Waste name: TETRACHLOROETHYLENE

. Waste code: D040

. Waste name: TRICHLORETHYLENE

. Waste code: F001

. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING:

TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE,

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

#### NATIONAL TIRE & BATTERY #7328 (Continued)

1004747129

1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F002

THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, Waste name:

METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE,

CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE,

ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2,

TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND

SPENT SOLVENT MIXTURES.

Violation Status: No violations found

ECHO:

Envid: 1004747129 Registry ID: 110004061452

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110004061452

NATIONAL TIRE & BATTERY #7328 Name:

10135 N TRYON ST Address: City, State, Zip: CHARLOTTE, NC 28262

В7 MARTIN MARIETTA MATERIALS, INC. **US MINES** 1016495762 N/A

South < 1/8

MECKLENBURG (County), NC

0.113 mi.

Site 1 of 3 in cluster B

598 ft. Relative:

US MINES: Higher Sic Code(s): 142300 Sic Code(s): 000000 Actual: 608 ft. Sic Code(s): 000000 Sic Code(s):

000000 Sic Code(s): 000000 Sic Code(s): 000000 Mine ID: 3102006

**Entity Name:** MALLARD CREEK QUARRY

Company: MARTIN MARIETTA MATERIALS, INC.

Status:

Status Date: 19870601

Operation Class: 2 Number of Shops: 0 Number of Plants: 0 Latitude Degree: 35 Longitude Degree: 080 Latitude Minute: 19 Latitude Seconds: 18 Longitude Minutes: 43 Longitude Seconds: 41 Number of Pits: 000 Map ID MAP FINDINGS Direction

**EDR ID Number** Distance Elevation Site **EPA ID Number** Database(s)

C8 **EXXON MOBIL CORPORATION EDR Hist Auto** 1021636342 **WSW** 

**10023 N TRYON ST** N/A

CHARLOTTE, NC 28262 < 1/8

0.123 mi.

649 ft. Site 1 of 3 in cluster C

Relative: Higher

**EDR Hist Auto** 

Year: Name: Type: Actual:

2007 **EXXON MOBIL CORPORATION** Gasoline Service Stations, NEC 634 ft.

**EXXON MOBIL CORPORATION** Gasoline Service Stations, NEC 2008 2009 **EXXON MOBIL CORPORATION** Gasoline Service Stations, NEC 2010 SAMS MART **Gasoline Service Stations** Gasoline Service Stations, NEC 2010 **EXXON MOBIL CORPORATION** Gasoline Service Stations 2011 SAMS MART

2012 7-ELEVEN STORE 35588H - 7-LVEN Gasoline Service Stations 2013 7-ELEVEN STORE 35588H - 7-LVEN **Gasoline Service Stations** 2014 **EXXON MOBIL CORPORATION** Gasoline Service Stations, NEC

C9 **EXXONMOBIL OIL CORP #40583 RCRA NonGen / NLR** 1006809274 NCR000138206

wsw **10023 N TRYON ST** < 1/8 CHARLOTTE, NC 28262

0.123 mi.

649 ft. Site 2 of 3 in cluster C

Relative: RCRA NonGen / NLR:

Higher Date form received by agency: 2011-09-08 00:00:00.0

Facility name: **EXXONMOBIL OIL CORP #40583** Actual:

Facility address: 10023 N TRYON ST 634 ft.

CHARLOTTE, NC 28262

EPA ID: NCR000138206

Mailing address: E WASHINGTON ST

EMES % JD2 ENVIRONMENTAL INC

WEST CHESTER, PA 19380

Contact: DONNA HYMES

E WASHINGTON ST EMES % JD2 ENVIRONMENTAL INC Contact address:

WEST CHESTER, PA 19380

Contact country:

Contact telephone: 610-430-8151

DHYMES@JD2ENV.COM Contact email:

EPA Region: 04

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/Operator Type:

Owner/operator name: SAM'S MART

Owner/operator address: COUNCIL PLACE, STE 200 MATTHEWS, NC 28105

Operator

Owner/operator country: US

704-940-3700 Owner/operator telephone: Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private

Owner/Op start date: 2010-09-23 00:00:00.

Owner/Op end date: Not reported

SAM'S MART Owner/operator name:

Direction Distance

Elevation Site Database(s) EPA ID Number

#### **EXXONMOBIL OIL CORP #40583 (Continued)**

1006809274

**EDR ID Number** 

Owner/operator address: COUNCIL PLACE, STE 200 MATTHEWS, NC 28105

Owner/operator country: US

Owner/operator telephone: 704-940-3700
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Legal status: Private
Owner/Operator Type: Owner

Owner/Op start date: 2010-09-23 00:00:00.

Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: Nο Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

**Historical Generators:** 

Date form received by agency: 2002-10-23 00:00:00.0

Site name: EXXONMOBIL OIL CORP #40583

Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001

. Waste name: IGNITABLE WASTE

. Waste code: D018. Waste name: BENZENE

Violation Status: No violations found

C10 7-ELEVEN STORE 35588 UST U003766263
WSW 10023 N TRYON STREET Financial Assurance N/A

< 1/8 0.123 mi.

649 ft. Site 3 of 3 in cluster C

CHARLOTTE, NC 28262

Relative: UST:

 Higher
 Name:
 7-ELEVEN STORE 35588

 Actual:
 Address:
 10023 N TRYON STREET

 634 ft.
 City,State,Zip:
 CHARLOTTE, NC 28262

 Facility Id:
 00-0-000036327

Facility Id: 00-0-000036327 Contact: 7-ELEVEN, INC.

Contact Address1: PO BOX 711 ATTN:GASOLINE ACCTNG

Direction Distance Elevation

stance EDR ID Number evation Site Database(s) EPA ID Number

#### 7-ELEVEN STORE 35588 (Continued)

Contact Address2: Not reported

Contact City/State/Zip: DALLAS, TX 75221-0711

FIPS County Desc: Mecklenburg
Latitude: 35.32234
Longitude: -80.73438

Tank Id: 1
Tank Status: Current
Installed Date: 07/17/2002
Perm Close Date: Not reported
Product Name: Gasoline, Gas Mix

Tank Capacity: 15000
Root Tank Id: Not reported

Main Tank: No
Compartment Tank: No
Manifold Tank: 0
Commercial: Yes
Regulated: Yes

Other CP Tank:

Overfill Protection Name:

Spill Protection Name:

Leak Detection Name:

Decode for TCONS\_KEY:

Not reported

Not reported

Double Wall FRP

Decode for PCONS\_KEY: Other

Decode for PSYS\_KEY: Pressurized System

Tank Id: 2
Tank Status: Current
Installed Date: 07/17/2002
Perm Close Date: Not reported
Product Name: Gasoline, Gas Mix

Tank Capacity: 15000
Root Tank Id: Not reported

Main Tank:NoCompartment Tank:NoManifold Tank:0Commercial:YesRegulated:YesOther CP Tank:Not reported

Overfill Protection Name:
Spill Protection Name:
Leak Detection Name:
Decode for TCONS\_KEY:

Not reported
Double Wall FRP

Decode for PCONS\_KEY: Other

Decode for PSYS\_KEY: Pressurized System

Tank Id: 3
Tank Status: Current
Installed Date: 07/17/2002
Perm Close Date: Not reported
Product Name: Gasoline, Gas Mix

Tank Capacity: 12000
Root Tank Id: 248274
Main Tank: Yes
Compartment Tank: Yes

U003766263

MAP FINDINGS Map ID

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

## 7-ELEVEN STORE 35588 (Continued)

U003766263

**EDR ID Number** 

Manifold Tank: Commercial: Yes Regulated: Yes

Other CP Tank: Not reported Overfill Protection Name: **Ball Float Valve** Catchment Basin Spill Protection Name: Leak Detection Name: Not reported Decode for TCONS\_KEY: Double Wall FRP

Decode for PCONS KEY: Other

Decode for PSYS\_KEY: Pressurized System

Tank Id: 3B Tank Status: Current Installed Date: 07/17/2002 Perm Close Date: Not reported Product Name: Diesel Tank Capacity: 8000 Root Tank Id: 248274 Main Tank: No Compartment Tank: Yes Manifold Tank: 0 Commercial: Yes Regulated: Yes

Other CP Tank: Not reported Overfill Protection Name: **Ball Float Valve** Spill Protection Name: Catchment Basin Leak Detection Name: Not reported Double Wall FRP Decode for TCONS\_KEY:

Decode for PCONS\_KEY: Other

Decode for PSYS\_KEY: Pressurized System

NC Financial Assurance 1:

7-ELEVEN STORE 35588 Name: 10023 N TRYON STREET Address: CHARLOTTE, NC 28262 City,State,Zip: 00-0-0000036327 Facility ID:

Region:

Financial Responsibility Desc: Insurance & Risk Retension

Financial Responsibility Name:Ironshore Speciality Insurance Company

Started Date: 12/18/2012 **Ended Date:** 12/18/2013

7-ELEVEN STORE 35588 Name: 10023 N TRYON STREET Address: City,State,Zip: CHARLOTTE, NC 28262

Facility ID: 00-0-0000036327

Region:

Financial Responsibility Desc: Insurance & Risk Retension

Financial Responsibility Name:Ironshore Speciality Insurance Company

Started Date: 12/18/2013 Ended Date: 12/18/2014

Direction Distance

Distance EDR ID Number
Elevation Site EPA ID Number

B11 MALLARD CREEK QUARRY US MINES 1024918570
South 575 E. MALLARD CREEK CHURCH RD. N/A

South 575 E. MALLARD CREEK CHURCH RD. 1/8-1/4 CHARLOTTE, NC 28262

0.133 mi.

704 ft. Site 2 of 3 in cluster B
Relative: MINES VIOLATIONS:

Higher Name: MALLARD CREEK QUARRY

Actual:Address:575 E. MALLARD CREEK CHURCH RD.633 ft.City,State,Zip:CHARLOTTE, NC 28262

633 ft. City,State,Zip: CHARLOTTE Facility ID: Not reported

MINES VIOLATIONS:

Violation Number: 9337459
Mine ID: 3102006
Contractor ID: Not reported
Date Issued: 11/16/2018
Action Type: 104(a)
Type of Issue: Citation
S and S: N

Term Date: 11/19/2018 Title 30 Code of Federal Regulations: 56.12019 Proposed Penalty: 118.00 Assessment Amount: 118.00 Paid Penalty Amount: 118.00 Assessment Case Status: Closed Assessment Status: Proposed Year: 2018 Address Type: MineLocation PO Box: Not reported

Address: 575 E. MALLARD CREEK CHURCH RD.

City: CHARLOTTE

State: NC

Operator: Martin Marietta Materials, Inc.

Zip: 28262

Mine Controller Name: Martin Marietta Materials Inc Name: MALLARD CREEK QUARRY

Ownership Date: 6/27/2005 Mine Status: Active Status Date: 6/1/1987

Primary Site Description: Crushed, Broken Granite

Mine Type: Surface State 2: NC

County: MECKLENBURG

Violation Number: 9424016 Mine ID: 3102006 Contractor ID: Not reported Date Issued: 8/15/2018 Action Type: 104(a) Type of Issue: Citation S and S: N 8/15/2018 Term Date: Title 30 Code of Federal Regulations: 56.12018 Proposed Penalty: 118.00 118.00 Assessment Amount: Paid Penalty Amount: 118.00 Assessment Case Status: Closed Assessment Status: Proposed Year: 2018

Direction Distance

Elevation Site Database(s) EPA ID Number

## MALLARD CREEK QUARRY (Continued)

1024918570

**EDR ID Number** 

Address Type: MineLocation PO Box: Not reported

Address: 575 E. MALLARD CREEK CHURCH RD.

City: CHARLOTTE

State: NC

Operator: Martin Marietta Materials, Inc.

Zip: 28262

Mine Controller Name: Martin Marietta Materials Inc Name: MALLARD CREEK QUARRY

Ownership Date: 6/27/2005
Mine Status: Active
Status Date: 6/1/1987

Primary Site Description: Crushed, Broken Granite

Mine Type: Surface State 2: NC

County: MECKLENBURG

Violation Number: 9424017 Mine ID: 3102006 Contractor ID: Not reported Date Issued: 8/15/2018 Action Type: 104(a) Type of Issue: Citation S and S: 8/16/2018 Term Date: Title 30 Code of Federal Regulations: 56.4102 Proposed Penalty: 118.00 Assessment Amount: 118.00 Paid Penalty Amount: 118.00 Assessment Case Status: Closed Assessment Status: Proposed

Year: 2018
Address Type: MineLocation
PO Box: Not reported

Address: 575 E. MALLARD CREEK CHURCH RD.

City: CHARLOTTE

State: NC

Operator: Martin Marietta Materials, Inc.

Zip: 28262

Mine Controller Name: Martin Marietta Materials Inc Name: MALLARD CREEK QUARRY

Ownership Date: 6/27/2005 Mine Status: Active Status Date: 6/1/1987

Primary Site Description: Crushed, Broken Granite

Mine Type: Surface State 2: NC

County: MECKLENBURG

 Violation Number:
 9424018

 Mine ID:
 3102006

 Contractor ID:
 Not reported

 Date Issued:
 8/15/2018

 Action Type:
 104(a)

 Type of Issue:
 Citation

 S and S:
 N

 Term Date:
 8/15/2018

Direction Distance

Elevation Site Database(s) EPA ID Number

# MALLARD CREEK QUARRY (Continued)

1024918570

**EDR ID Number** 

Title 30 Code of Federal Regulations: 56.13011 Proposed Penalty: 118.00 Assessment Amount: 118.00 Paid Penalty Amount: 118.00 Assessment Case Status: Closed Assessment Status: Proposed Year: 2018 Address Type: MineLocation PO Box: Not reported

Address: 575 E. MALLARD CREEK CHURCH RD.

City: CHARLOTTE

State: NC

Operator: Martin Marietta Materials, Inc.

Zip: 28262

Mine Controller Name: Martin Marietta Materials Inc Name: MALLARD CREEK QUARRY

Ownership Date: 6/27/2005
Mine Status: Active
Status Date: 6/1/1987

Primary Site Description: Crushed, Broken Granite

Mine Type: Surface State 2: NC

County: MECKLENBURG

Violation Number: 9337103 Mine ID: 3102006 Contractor ID: Not reported Date Issued: 9/9/2019 Action Type: 104(a) Type of Issue: Citation S and S: Term Date: 9/9/2019 Title 30 Code of Federal Regulations: 56.14207 Proposed Penalty: 121.00 Assessment Amount: 121.00 Paid Penalty Amount: 121.00 Assessment Case Status: Closed Assessment Status: Proposed Year: 2019 Address Type: MineLocation

Address: 575 E. MALLARD CREEK CHURCH RD.

Not reported

City: CHARLOTTE

State: NC

PO Box:

Operator: Martin Marietta Materials, Inc.

Zip: 28262

Mine Controller Name: Martin Marietta Materials Inc Name: MALLARD CREEK QUARRY

Ownership Date: 6/27/2005
Mine Status: Active
Status Date: 6/1/1987

Primary Site Description: Crushed, Broken Granite

Mine Type: Surface State 2: NC

County: MECKLENBURG

Violation Number: 6112210

Direction Distance

Elevation Site Database(s) EPA ID Number

## MALLARD CREEK QUARRY (Continued)

1024918570

**EDR ID Number** 

 Mine ID:
 3102006

 Contractor ID:
 Not reported

 Date Issued:
 10/28/2003

 Action Type:
 104(a)

 Type of Issue:
 Citation

 S and S:
 Y

Term Date: 10/29/2003 Title 30 Code of Federal Regulations: 56.14107(a) Proposed Penalty: 191 Assessment Amount: 191 Paid Penalty Amount: 191 Assessment Case Status: Proposed Closed Assessment Status: Year: 2003 Address Type: MineLocation PO Box: Not reported

Address: 575 E. MALLARD CREEK CHURCH RD.

City: CHARLOTTE

State: NC

Operator: Martin Marietta Materials, Inc.

Zip: 28262

Mine Controller Name: Martin Marietta Materials Inc Name: MALLARD CREEK QUARRY

 Ownership Date:
 06/27/2005

 Mine Status:
 Active

 Status Date:
 06/01/1987

Primary Site Description: Crushed, Broken Granite

Mine Type: Surface State 2: NC

County: MECKLENBURG

 Violation Number:
 6112211

 Mine ID:
 3102006

 Contractor ID:
 Not reported

 Date Issued:
 10/28/2003

 Action Type:
 104(a)

 Type of Issue:
 Citation

 S and S:
 N

Term Date: 10/28/2003 Title 30 Code of Federal Regulations: 56.14132(a)

Proposed Penalty: 60 Assessment Amount: 60 Paid Penalty Amount: 60 Assessment Case Status: Proposed Closed Assessment Status: 2003 Year: Address Type: MineLocation PO Box: Not reported

Address: 575 E. MALLARD CREEK CHURCH RD.

City: CHARLOTTE

State: NC

Operator: Martin Marietta Materials, Inc.

Zip: 28262

Mine Controller Name: Martin Marietta Materials Inc Name: MALLARD CREEK QUARRY

Ownership Date: 06/27/2005 Mine Status: Active

Direction Distance

Elevation Site Database(s) EPA ID Number

## MALLARD CREEK QUARRY (Continued)

1024918570

**EDR ID Number** 

Status Date: 06/01/1987

Primary Site Description: Crushed, Broken Granite

Mine Type: Surface State 2: NC

County: MECKLENBURG

Violation Number: 6112212
Mine ID: 3102006
Contractor ID: Not reported
Date Issued: 10/29/2003
Action Type: 104(a)
Type of Issue: Citation
S and S: Y

Term Date: 10/29/2003 Title 30 Code of Federal Regulations: 56.11012 Proposed Penalty: 228 Assessment Amount: 228 Paid Penalty Amount: 228 Assessment Case Status: Proposed Assessment Status: Closed Year: 2003 Address Type: MineLocation PO Box: Not reported

Address: 575 E. MALLARD CREEK CHURCH RD.

City: CHARLOTTE

State: NC

Operator: Martin Marietta Materials, Inc.

Zip: 28262

Mine Controller Name: Martin Marietta Materials Inc Name: MALLARD CREEK QUARRY

 Ownership Date:
 06/27/2005

 Mine Status:
 Active

 Status Date:
 06/01/1987

Primary Site Description: Crushed, Broken Granite

Mine Type: Surface State 2: NC

County: MECKLENBURG

 Violation Number:
 6112213

 Mine ID:
 3102006

 Contractor ID:
 Not reported

 Date Issued:
 10/29/2003

 Action Type:
 104(a)

 Type of Issue:
 Citation

S and S: Y

PO Box:

Term Date: 10/29/2003 Title 30 Code of Federal Regulations: 56.14107(a) Proposed Penalty: 191 Assessment Amount: 191 Paid Penalty Amount: 191 Assessment Case Status: Proposed Assessment Status: Closed 2003 Year: Address Type: MineLocation

Address: 575 E. MALLARD CREEK CHURCH RD.

Not reported

City: CHARLOTTE

Direction Distance

Elevation Site Database(s) EPA ID Number

## MALLARD CREEK QUARRY (Continued)

1024918570

**EDR ID Number** 

State: NC

Operator: Martin Marietta Materials, Inc.

Zip: 28262

Mine Controller Name: Martin Marietta Materials Inc Name: MALLARD CREEK QUARRY

 Ownership Date:
 06/27/2005

 Mine Status:
 Active

 Status Date:
 06/01/1987

Primary Site Description: Crushed, Broken Granite

Mine Type: Surface State 2: NC

County: MECKLENBURG

 Violation Number:
 6112214

 Mine ID:
 3102006

 Contractor ID:
 Not reported

 Date Issued:
 10/29/2003

 Action Type:
 104(a)

 Type of Issue:
 Citation

 S and S:
 N

Term Date: 10/29/2003 Title 30 Code of Federal Regulations: 56.12004 Proposed Penalty: 60 Assessment Amount: 60 Paid Penalty Amount: 60 Assessment Case Status: Proposed Assessment Status: Closed Year: 2003 Address Type: MineLocation PO Box: Not reported

Address: 575 E. MALLARD CREEK CHURCH RD.

City: CHARLOTTE

State: NC

Operator: Martin Marietta Materials, Inc.

Zip: 28262

Mine Controller Name: Martin Marietta Materials Inc Name: MALLARD CREEK QUARRY

 Ownership Date:
 06/27/2005

 Mine Status:
 Active

 Status Date:
 06/01/1987

Primary Site Description: Crushed, Broken Granite

Mine Type: Surface State 2: NC

County: MECKLENBURG

Violation Number: 6112215

Mine ID: 3102006

Contractor ID: Not reported
Date Issued: 10/29/2003

Action Type: 104(a)

Type of Issue: Citation
S and S: Y

Term Date: 10/29/2003
Title 30 Code of Federal Regulations: 56.14107(a)
Proposed Penalty: 191
Assessment Amount: 191
Paid Penalty Amount: 191

Direction Distance

Distance Elevation Site EDR ID Number

EDR ID Number

EPA ID Number

#### MALLARD CREEK QUARRY (Continued)

1024918570

Assessment Case Status:

Assessment Status:

Year:

Address Type:

PO Box:

Proposed

Closed

2003

MineLocation

Not reported

Address: 575 E. MALLARD CREEK CHURCH RD.

City: CHARLOTTE

State: NC

Operator: Martin Marietta Materials, Inc.

Zip: 28262

Mine Controller Name: Martin Marietta Materials Inc Name: MALLARD CREEK QUARRY

 Ownership Date:
 06/27/2005

 Mine Status:
 Active

 Status Date:
 06/01/1987

Primary Site Description: Crushed, Broken Granite

Mine Type: Surface State 2: NC

County: MECKLENBURG

Click this hyperlink while viewing on your computer to access 48 additional US MINES VIOLATIONS: record(s) in the EDR Site Report.

MARTIN MARIETTA MALLARD CREEK QUARRY

RCRA-VSQG 1004551008

NCD986195782

South 575 E MALLARD CREEK CHURCH

1/8-1/4 CHARLOTTE, NC 28213

0.133 mi.

B12

704 ft. Site 3 of 3 in cluster B

Relative: RCRA-VSQG:

Higher Date form received by agency: 2014-04-29 00:00:00.0

Actual: Facility name: MARTIN MARIETTA MALLARD CREEK QUARRY

633 ft. Facility address: 575 E MALLARD CREEK CHURCH

**ROAD** 

CHARLOTTE, NC 28213

EPA ID: NCD986195782 Mailing address: PO BOX 7446

CHARLOTTE, NC 28241

Contact: RICHARD BROUGHTON

Contact address: PO BOX 7446

CHARLOTTE, NC 28241

Contact country: US

Contact telephone: 803-978-6275

Contact email: RICHARD.BROUGHTON@MARTINMARIETTA.COM

EPA Region: 04

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar

month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of

TC6059429.1s Page 37

Distance Elevation

Site Database(s) EPA ID Number

#### MARTIN MARIETTA MALLARD CREEK QUARRY (Continued)

1004551008

**EDR ID Number** 

any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: MARTIN MARIETTA
Owner/operator address: PO BOX 30013
RALEIGH, NC 27622

Owner/operator country: Not reported Owner/operator telephone: 919-781-4550 Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: Not reported Owner/Op end date: Not reported

#### Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

#### **Historical Generators:**

Date form received by agency: 2003-11-21 00:00:00.0

Site name: MARTIN MARIETTA MALLARD CREEK QUARRY
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 1997-04-23 00:00:00.0

Site name: MARTIN MARIETTA MALLARD CREEK QUARRY
Classification: Conditionally Exempt Small Quantity Generator

#### Hazardous Waste Summary:

. Waste code: D001

. Waste name: IGNITABLE WASTE

Violation Status: No violations found

Direction Distance

Elevation Site Database(s) EPA ID Number

 D13
 HERLOCKER'S PANTRY
 IMD
 \$125838129

 North
 10515 N TYRON STREET
 N/A

1/8-1/4 CHARLOTTE, NC 28262 0.139 mi.

736 ft. Site 1 of 3 in cluster D

Relative: IMD:

Lower Name: HERLOCKER'S PANTRY
Actual: Address: 10515 N TYRON STREET

595 ft.

City: CHARLOTTE
Region: Not reported
Facility ID: 16870
Date Occurred: 3/5/1990
Submit Date: 2/24/1997
GW Contam: Not reported
Soil Contam: Not reported

Incident Desc: UPON REMOVAL OF 2 USTS, TPH WAS 580 PPM.

Operator: **BILL TOME** Not reported Contact Phone: Owner Company: Not reported Operator Address:Not reported Operator City: Not reported Oper City, St, Zip: Not reported Ownership: Private Operation: Commercial Material: Not reported Qty Lost 1: Not reported Qty Recovered 1: Not reported Source: Not reported Type: Gasoline/diesel Location: Facility Setting: Not reported Not reported Risk Site: Site Priority: Not reported Priority Code: Not reported

Wells Affected: No Num Affected: 0

Priority Update:

Dem Contact:

Wells Contam: Not reported
Sampled By: Responsible Parties
Samples Include: Soil Samples

7.5 Min Quad: Not reported 5 Min Quad: Not reported

Latitude: 35.33189999999997

Not reported

Not reported

-80.72345 Longitude: Latitude Number: Not reported Longitude Number: Not reported Latitude Decimal: Not reported Longitude Decimal: Not reported GPS: Not reported Agency: Not reported Facility ID: 16870 Last Modified: 3/7/1997 Closed Out Incident Phase: NOV Issued: Not reported NORR Issued: Not reported 45 Day Report: Not reported Public Meeting Held: Not reported **EDR ID Number** 

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

**HERLOCKER'S PANTRY (Continued)** 

S125838129

Corrective Action Planned: Not reported SOC Sighned: Not reported Reclassification Report: Not reported RS Designation: Not reported Closure Request Date: Not reported 10/8/1990 Close-out Report:

D14 HERLOCKER'S AMOCO PANTRY UST U001438560 10515 NORTH TRYON STREET North N/A

1/8-1/4 0.139 mi.

736 ft. Site 2 of 3 in cluster D

CHARLOTTE, NC 28213

UST: Relative: Lower Actual: 595 ft.

HERLOCKER'S AMOCO PANTRY Name: Address: 10515 NORTH TRYON STREET City,State,Zip: CHARLOTTE, NC 28213

Facility Id: 00-0-0000025113

Contact: MARK OIL COMPANY INC

Contact Address1: PO BOX 32064 Contact Address2: Not reported

Contact City/State/Zip: CHARLOTTE, NC 28232-2064

FIPS County Desc: Mecklenburg Latitude: 35.32727 Longitude: -80.72804

Tank Id:

Tank Status: Removed Installed Date: 03/18/1970 Perm Close Date: 02/28/1990 Product Name: Gasoline, Gas Mix

Tank Capacity: 4000

Root Tank Id: Not reported Main Tank: No Compartment Tank: No

Manifold Tank: Not reported Commercial: Yes Regulated: Yes

Other CP Tank: Not reported Overfill Protection Name: Unknown Spill Protection Name: Unknown Leak Detection Name: Unknown Decode for TCONS\_KEY: Single Wall Steel Decode for PCONS KEY: Single Wall Steel Decode for PSYS\_KEY: Unknown

Tank Id:

Tank Status: Removed Installed Date: 03/18/1970 02/28/1990 Perm Close Date: Product Name: Gasoline, Gas Mix

Tank Capacity: 4000 Root Tank Id: Not reported

Main Tank: No Compartment Tank: No

Manifold Tank: Not reported

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

#### **HERLOCKER'S AMOCO PANTRY (Continued)**

U001438560

S105764762

N/A

LUST

Commercial: Yes Regulated: Yes Other CP Tank: Not reported Overfill Protection Name: Unknown Spill Protection Name: Unknown Leak Detection Name: Unknown Single Wall Steel Decode for TCONS\_KEY: Decode for PCONS\_KEY: Single Wall Steel

Unknown

D15 **HERLOCKER'S PANTRY** North **10515 N TYRON STREET** 1/8-1/4 CHARLOTTE, NC 28262

0.139 mi.

736 ft. Site 3 of 3 in cluster D LUST:

Relative: Lower Actual: 595 ft.

Name: HERLOCKER'S PANTRY Address: 10515 N TYRON STREET CHARLOTTE, NC 28262 City,State,Zip:

Facility ID: 00-0-000 **UST Number:** MO-4952 16870 Incident Number:

Contamination Type: SL Leak-underground Source Type:

Product Type:

Decode for PSYS\_KEY:

Date Reported: 10/01/1990 Date Occur: 05/29/1990 05/29/1990 Cleanup: Closure Request: Not reported Close Out: 10/08/1990

Level Of Soil Cleanup Achieved: Not reported

Tank Regulated Status: R

# Of Supply Wells:

Commercial/NonCommercial UST Site: COMMERCIAL

Risk Classification: L Risk Class Based On Review:

Corrective Action Plan Type: Not reported

NOV Issue Date: Not reported NORR Issue Date: Not reported Site Priority: Not reported Phase Of LSA Req: Not reported Not reported Site Risk Reason: Land Use: Not reported MTBE: Not reported MTBE1: Unknown Flag: No Flag1: No

LUR Filed: Not reported

Release Detection:

**Current Status:** File Located in Archives

**RBCA GW:** Not reported PETOPT: Not reported RPL: False CD Num: 5 0 Reel Num: RPOW: False RPOP: False

Distance

Elevation Site Database(s) EPA ID Number

## **HERLOCKER'S PANTRY (Continued)**

S105764762

**EDR ID Number** 

Error Flag: 0

Error Code: Not reported Valid: False

Lat/Long Decimal: 35.3318 -80.7234 Testlat: Not reported Regional Officer Project Mgr: MT MOR Region: Company: Not reported Contact Person: Not reported Telephone: Not reported Not reported RP Address: Not reported RP City,St,Zip: Not reported RP County:

Comments: Not reported 5 Min Quad: Not reported

PIRF:

 Facility Id:
 16870

 Date Occurred:
 3/5/1990

 Date Reported:
 2/24/1997

Description Of Incident: UPON REMOVAL OF 2 USTS, TPH WAS 580 PPM.

Owner/Operator: BILL TOME

 Ownership:
 4

 Operation Type:
 6

 Type:
 3

 Location:
 1

Site Priority: Not reported Priority Update: Not reported

Wells Affected Y/N: N
Samples Include: 0
7#5 Minute Quad: 3
5 Minute Quad: 2

Pirf/Min Soil:Not reportedRelease Code:Not reportedSource Code:PirfErr Type:Not reportedCause:Not reported

Cause: Not reported Source: Not reported Ust Number: Not reported Not reported

Last Modified: 3/7/1997 Incident Phase: **Closed Out** NOV Issued: Not reported NORR Issued: Not reported 45 Day Report: Not reported Public Meeting Held: Not reported Corrective Action Planned: Not reported SOC Signed: Not reported Reclassification Report: Not reported RS Designation: Not reported Closure Request Date: Not reported Close-out Report: 10/8/1990

Click here to access the North Carolina DEQ records for this facility:

Direction Distance

**EDR ID Number** Elevation Site **EPA ID Number** Database(s)

16 **CVS PHARMACY #6518** RCRA-LQG 1014955998 NE 11430 NORTH TRYON STREET NCR000152785

1/8-1/4 0.154 mi. 815 ft.

Relative: RCRA-LQG:

Lower Date form received by agency: 2018-03-01 00:00:00.0

CHARLOTTE, NC 28262

Facility name: CVS PHARMACY #6518 Actual: Facility address: 11430 NORTH TRYON STREET 588 ft.

CHARLOTTE, NC 28262

EPA ID: NCR000152785 Mailing address: CVS DR MC2340

WOONSOCKET, RI 02895

Contact: NICOLE WILKINSON Contact address: CVS DR MC2340

WOONSOCKET, RI 02895

Contact country: US

401-770-7132 Contact telephone:

Contact email: NICOLE.WILKINSON@CVSHEALTH.COM

EPA Region:

Classification: Large Quantity Generator

Description: Handler: generates 1,000 kg or more of hazardous waste during any

calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than

100 kg of that material at any time

Owner/Operator Summary:

NAN M. GODWIN Owner/operator name: Owner/operator address: -102 WIREWOOD DR RALEIGH, NC 27605

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner

Owner/Operator Type: Owner/Op start date: 2007-04-02 00:00:00.

Owner/Op end date: Not reported

NORTH CAROLINA CVS PHARMACY, L.L.C. Owner/operator name:

-102 WIREWOOD DR Owner/operator address: RALEIGH, NC 27605

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Not reported Owner/operator fax: Owner/operator extension: Not reported Legal status: Private

Owner/Operator Type: Operator

Distance EDR ID Number
Elevation Site EDR ID Number
Database(s) EPA ID Number

CVS PHARMACY #6518 (Continued)

1014955998

Owner/Op start date: 2007-05-17 00:00:00.
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Historical Generators:

Date form received by agency: 2016-03-09 00:00:00.0
Site name: CVS PHARMACY #6518
Classification: Large Quantity Generator

Date form received by agency: 2014-03-18 00:00:00.0
Site name: CVS PHARMACY #6518
Classification: Large Quantity Generator

Date form received by agency: 2013-03-18 00:00:00.0
Site name: CVS PHARMACY #6518
Classification: Large Quantity Generator

Date form received by agency: 2012-04-05 00:00:00.0
Site name: CVS PHARMACY #6518
Classification: Small Quantity Generator

Hazardous Waste Summary:

. Waste code: D001

. Waste name: IGNITABLE WASTE

Waste code: D002

Waste name: CORROSIVE WASTE

. Waste code: D004 . Waste name: ARSENIC

Waste code: D005
Waste name: BARIUM

. Waste code: D006 . Waste name: CADMIUM

Waste code: D007

. Waste name: CHROMIUM

Direction Distance Elevation

Site EDR ID Number

EDR ID Number

EPA ID Number

CVS PHARMACY #6518 (Continued)

1014955998

. Waste code: D008 . Waste name: LEAD

Waste code: D009
Waste name: MERCURY

. Waste code: D010 SELENIUM

. Waste code: D011 . Waste name: SILVER

Waste code: D016

. Waste name: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

. Waste code: D018
. Waste name: BENZENE

Waste code: D024
Waste name: M-CRESOL

. Waste code: D026 . Waste name: CRESOL

. Waste code: D027

. Waste name: 1,4-DICHLOROBENZENE

. Waste code: D035

. Waste name: METHYL ETHYL KETONE

. Waste code: D039

. Waste name: TETRACHLOROETHYLENE

. Waste code: P001

. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS,

WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, &

SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

Waste code: P012

. Waste name: ARSENIC OXIDE AS203 (OR) ARSENIC TRIOXIDE

Waste code: P042

Waste name: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)- (OR)

EPINEPHRINE

Waste code: P075

Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, &

SALTS

. Waste code: P081

. Waste name: 1,2,3-PROPANETRIOL, TRINITRATE (R) (OR) NITROGLYCERINE (R)

Waste code: P188

Waste name: BENZOIC ACID, 2-HYDROXY-, COMPD. WITH

(3AS-CIS)-1,2,3,3A,8,8A-HEXAHYDRO-1,3A,8-TRIMETHYLPYRROLO[2,3-B]INDOL5-YL METHYLCARBAMATE ESTER (1:1) (OR) PHYSOSTIGMINE SALICYLATE

Map ID MAP FINDINGS
Direction

Distance Elevation

Site EDR ID Number

Database(s) EPA ID Number

CVS PHARMACY #6518 (Continued)

1014955998

. Waste code: U002

. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U010

. Waste name: AZIRINO [2',3':3,4]PYRROLO[1,2-A]INDOLE-4,7-DIONE,

6-AMINO-8-[[(AMINOCARBONYL)OXY]METHYL]-1,1A,2,8,8A,8B-HEXAHYDRO-8A-MET

HOXY-5-METHYL-, [1AS-(1AALPHA, 8BETA, 8AALPHA, 8BALPHA)]- (OR)

MITOMYCIN C

. Waste code: U031

. Waste name: 1-BUTANOL (I) (OR) N-BUTYL ALCOHOL (I)

Waste code: U034

. Waste name: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

Waste code: U035

. Waste name: BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) CHLORAMBUCIL

Waste code: U044

. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

Waste code: U058

. Waste name: 2H-1,3,2-OXAZAPHOSPHORIN-2-AMINE, N,N-BIS(2-CHLOROETHYL)TETRAHYDRO-,

2-OXIDE (OR) CYCLOPHOSPHAMIDE

Waste code: U059

. Waste name: 5,12-NAPHTHACENEDIONE,

8-ACETYL-10-[(3-AMINO-2,3,6-TRIDEOXY)-ALPHA-L-LYXO-HEXOPYRANOSYL)OXY]-

7,8,9,10-TETRAHYDRO-6,8,11-TRIHYDROXY-1-METHOXY-, (8S-CIS)- (OR)

DAUNOMYCIN

. Waste code: U070

. Waste name: BENZENE, 1,2-DICHLORO- (OR) O-DICHLOROBENZENE

Waste code: U072

. Waste name: BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE

. Waste code: U089

. Waste name: DIETHYLSTILBESTEROL (OR) PHENOL, 4,4'-(1,2-DIETHYL-1,2-ETHENEDIYL)BIS,

(E)-

. Waste code: U122

. Waste name: FORMALDEHYDE

Waste code: U129

. Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA,

5ALPHA, 6BETA)- (OR) LINDANE

Waste code: U132

Waste name: HEXACHLOROPHENE (OR) PHENOL, 2,2'-METHYLENEBIS[3,4,6-TRICHLORO-

. Waste code: U150

Waste name: L-PHENYLALANINE, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) MELPHALAN

. Waste code: U151 . Waste name: MERCURY Map ID MAP FINDINGS
Direction

Distance Elevation Site

Site Database(s) EPA ID Number

CVS PHARMACY #6518 (Continued)

1014955998

**EDR ID Number** 

. Waste code: U154

. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

. Waste code: U165

. Waste name: NAPHTHALENE

Waste code: U188
Waste name: PHENOL

Waste code: U200

Waste name: RESERPINE (OR) YOHIMBAN-16-CARBOXYLIC ACID,

11,17-DIMETHOXY-18-[(3,4,5-TRIMETHOXYBENZOYL)OXY]-, METHYL ESTER,

(3BETA, 16BETA, 17ALPHA, 18BETA, 20ALPHA)-

Waste code: U201

. Waste name: 1,3-BENZENEDIOL (OR) RESORCINOL

Waste code: U204

Waste name: SELENIOUS ACID (OR) SELENIUM DIOXIDE

Waste code: U205

. Waste name: SELENIUM SULFIDE (OR) SELENIUM SULFIDE SES2 (R,T)

Waste code: U206

Waste name: D-GLUCOSE, 2-DEOXY-2-[[(METHYLNITROSOAMINO)-CARBONYL]AMINO]- (OR)

GLUCOPYRANOSE, 2-DEOXY-2-(3-METHYL-3-NITROSOUREIDO)-,D- (OR)

STREPTOZOTOCIN

. Waste code: U210

. Waste name: ETHENE, TETRACHLORO- (OR) TETRACHLOROETHYLENE

Waste code: U279

Waste name: CARBARYL (OR) 1-NAPHTHALENOL, METHYLCARBAMATE

Waste code: U411

. Waste name: PHENOL, 2-(1-METHYLETHOXY)-, METHYLCARBAMATE (OR) PROPOXUR

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Amount (Lbs): 17

Waste code: D007
Waste name: CHROMIUM

Amount (Lbs): 17

Waste code: D010
Waste name: SELENIUM

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## CVS PHARMACY #6518 (Continued)

1014955998

IMD

S105958802

N/A

Amount (Lbs): 17

P001 Waste code:

2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, Waste name:

WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

Amount (Lbs):

P075 Waste code:

NICOTINE, & SALTS Waste name:

Amount (Lbs):

Waste code: U002 Waste name: ACETONE (I)

Amount (Lbs):

Waste code: U129

CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, Waste name:

(1ALPHA,2ALPHA,3BETA,4ALPHA,5ALPHA,6BETA)-

Amount (Lbs):

U205 Waste code:

Waste name: SELENIUM SULFIDE

Amount (Lbs):

Violation Status: No violations found

HISTORIC ALEXANDER PROPERTY 17 West MALLARD CREEK CHURCH ROAD

1/8-1/4 CHARLOTTE, NC

0.181 mi. 954 ft.

Relative: IMD:

Higher HISTORIC ALEXANDER PROPERTY Name: MALLARD CREEK CHURCH ROAD Address: Actual:

662 ft. City: **CHARLOTTE** Region: MOR Facility ID: 27533 Date Occurred: 3/12/2003 Submit Date: 4/21/2003

> GW Contam: No Groundwater Contamination detected

Soil Contam: Yes

Incident Desc: Not reported Not reported Operator: Contact Phone: Not reported Owner Company: Not reported Operator Address:Not reported Operator City: Not reported

Oper City, St, Zip: NC Ownership: Municipal Operation: Residential Material: Not reported Not reported Qty Lost 1: Qty Recovered 1: Not reported Source: Leak-underground Type: Gasoline/diesel Location: Residence Setting: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

## HISTORIC ALEXANDER PROPERTY (Continued)

S105958802

**EDR ID Number** 

Risk Site: L

Site Priority: Not reported
Priority Code: Not reported
Priority Update: Not reported
Dem Contact: AJS
Wells Affected: No

Num Affected: Not reported Wells Contam: Not reported

Sampled By: Y

Samples Include: Not reported

7.5 Min Quad: Not reported 5 Min Quad: Not reported Latitude: Not reported Longitude: Not reported Latitude Number: Not reported Longitude Number: Not reported Latitude Decimal: Not reported Longitude Decimal: Not reported

GPS:

DWM Agency: Facility ID: 27533 Last Modified: 8/6/2003 Incident Phase: Closed Out NOV Issued: Not reported NORR Issued: Not reported 45 Day Report: Not reported Public Meeting Held: Not reported Corrective Action Planned: Not reported SOC Sighned: Not reported Reclassification Report: Not reported RS Designation: Not reported Closure Request Date: Not reported Close-out Report: Not reported

E18 ATT CELL TOWER

South 533 EAST MALLARD CREEK CHURCH

1/8-1/4 CHARLOTTE, NC 28262

0.186 mi.

980 ft. Site 1 of 2 in cluster E

Relative: Higher LAST:
Name: ATT CELL TOWER

Actual: Address: City,State,Zip:

City,State,Zip: CHARLOTTE, NC 28262
Facility ID: Not reported
UST Number: MO-88602
Incident Number: 91422

Contamination Type: SL

Source Type: 14 Product Type: P

 Date Reported:
 11/17/2016

 Date Occur:
 10/04/2016

 Cleanup:
 10/04/2016

 Closure Request:
 Not reported

 Close Out:
 12/13/2016

Level Of Soil Cleanup Achieved: Not reported Tank Regulated Status: Not reported

533 EAST MALLARD CREEK CHURCH

LAST S120840705

N/A

Direction Distance Elevation

on Site Database(s) EPA ID Number

## ATT CELL TOWER (Continued)

# Of Supply Wells: 0

Commercial/NonCommercial UST Site: Not reported

Risk Classification: L
Risk Class Based On Review: L

Corrective Action Plan Type: Not reported

NOV Issue Date: Not reported NORR Issue Date: Not reported Site Priority: Not reported Phase Of LSA Req: Not reported Site Risk Reason: Not reported Not reported Land Use: MTBE: No MTBE1: Unknown Flag: No Flag1: No

LUR Filed: Not reported

Release Detection: 0 Current Status: C

RBCA GW: Not reported

PETOPT: 3 RPL: False CD Num: 0 Reel Num: 0 RPOW: False RPOP: True Error Flag: 0 Error Code: Ν Valid: False

 Lat/Long:
 35 19 7.92 80 43 40.98

 Lat/Long Decimal:
 35.31886 -80.72805

 Testlat:
 Not reported

 Regional Officer Project Mgr:
 DPB

 Region:
 MOR

 Company:
 ATT

Contact Person: Not reported Telephone: Not reported

RP Address: 308 S Akard Rm 1700
RP City,St,Zip: Dallas, TX 55202
RP County: Not reported

Comments: Not reported 5 Min Quad: Not reported

PIRF:

Facility Id: 91422
Date Occurred: 10/4/2016
Date Reported: 11/17/2016
Description Of Incident: Not reported
Owner/Operator: Not reported

 Ownership:
 4

 Operation Type:
 8

 Type:
 03

 Location:
 1

Site Priority: Not reported Priority Update: Not reported

Wells Affected Y/N: n

Wells Affected Number: Not reported

Samples Taken By:

Samples Include: Not reported

S120840705

**EDR ID Number** 

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

**ATT CELL TOWER (Continued)** 

7#5 Min Quad: Not reported Not reported 5 Min Quad: Pirf/Min Soil: Not reported

Release Code:

Cause: Not reported Source: Not reported

Source Type: D

Last Modified: Not reported Incident Phase: Not reported Not reported NOV Issued: NORR Issued: Not reported 45 Day Report: Not reported Public Meeting Held: Not reported Corrective Action Planned: Not reported SOC Signed: Not reported Reclassification Report: Not reported **RS** Designation: Not reported Closure Request Date: Not reported Close-out Report: Not reported

**GLEN CLARENCE CLINE PROPERTY (FORMER)** S102868499 19 **SHWS** 

NE 11431 US HIGHWAY 29 **LUST** N/A

**LUST TRUST** 1/8-1/4 CHARLOTTE, NC 28262 0.195 mi. **IMD** 

Relative: SHWS:

1028 ft.

Higher GLEN CLARENCE CLINE PROP (SOLVENTS) Name:

Address: 11431 US HWY 29 Actual: 620 ft. City,State,Zip: CHARLOTTE, NC EPAID: NONCD0001776

Lat/Longitude: Not reported Geolocation Method: Not reported

Click here to access the North Carolina DEQ records for this facility:

LUST:

GLEN CLARENCE CLINE PROPERTY (FORMER) Name:

Address: 11431 US HIGHWAY 29 City,State,Zip: CHARLOTTE, NC 28262

Facility ID: Not reported UST Number: MO-5179 Incident Number: 17696

Contamination Type: GW

Source Type: Leak-underground

Product Type:

Date Reported: 08/21/1997 07/03/1997 Date Occur: Cleanup: 07/03/1997 Closure Request: Not reported Close Out: 04/15/2011

Soil to Groundwater Level Of Soil Cleanup Achieved:

Tank Regulated Status:

# Of Supply Wells:

Commercial/NonCommercial UST Site: COMMERCIAL

Risk Classification: Н S120840705

Direction
Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

## GLEN CLARENCE CLINE PROPERTY (FORMER) (Continued)

S102868499

Risk Class Based On Review: L
Corrective Action Plan Type: ET
NOV Issue Date: Not reported
NORR Issue Date: Not reported

Site Priority: B Phase Of LSA Req: 2

Site Risk Reason:
Land Use:
MTBE:
Not reported
Not reported
Not reported

MTBE1: No
Flag: No
Flag1: No
LUR Filed: Not reported

Release Detection: 0

Current Status: File Located in Archives RBCA GW: Cleanups to 2L.0202 standards

 PETOPT:
 3

 RPL:
 False

 CD Num:
 548

 Reel Num:
 0

 RPOW:
 False

 RPOP:
 False

 Error Flag:
 0

Error Code: Not reported Valid: False 35.3355 -80.7157 Lat/Long Decimal: Testlat: Not reported Regional Officer Project Mgr: DPB Region: MOR **GLEN CLINE** Company: Contact Person: Not reported Telephone: Not reported

RP Address: 2300 SUNSET ROAD
RP City,St,Zip: CHARLOTTE, NC 28216
RP County: MECKLENBURG

Comments: (rec coor 35.335540 80.715730) <S-GW, < 2L

5 Min Quad: Not reported

PIRF:

 Facility Id:
 17696

 Date Occurred:
 7/3/1997

 Date Reported:
 8/21/1997

Description Of Incident: UPON REMOVAL OF 3 USTS, SOIL CONTAM. WAS AS HIGH AS 25,800 PPM GAS.

Owner/Operator: MR. GLEN CLINE

Ownership: 3
Operation Type: 6
Type: 3
Location: 1
Site Priority: B
Priority Update: 5/3

Priority Update: 5/30/1998
Wells Affected Y/N: N
Samples Include: 0
7#5 Minute Quad: 4
5 Minute Quad: 2

Pirf/Min Soil: Not reported Release Code: P64W Source Code: Pirf

Err Type: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

### GLEN CLARENCE CLINE PROPERTY (FORMER) (Continued)

S102868499

**EDR ID Number** 

Cause: Not reported Source: Not reported

Ust Number: P

4/15/2011 Last Modified: **Closed Out** Incident Phase: NOV Issued: Not reported NORR Issued: Not reported 45 Day Report: Not reported Public Meeting Held: Not reported Not reported Corrective Action Planned: SOC Signed: Not reported Reclassification Report: Not reported RS Designation: Not reported Closure Request Date: Not reported Close-out Report: Not reported

Click here to access the North Carolina DEQ records for this facility:

LUST TRUST:

Name: FORMER GLEN CLINE SERVICE STATION

Address: 11431 US HWY 29
City, State, Zip: CHARLOTTE, NC
Facility ID: Not reported
Site ID: 17696
Site Note: Not reported
Site Eligible?: True

Commercial Find: 100% Commercial Priority Rank: Not reported 75000 3rd Party Deductable Amt: 100000 Sum 3rd Party Amt Applied: 0

IMD:

Name: GLEN CLARENCE CLINE PROPERTY-F

Address: 11431 US HIGHWAY 29

City: CHARLOTTE
Region: MOR
Facility ID: 17696
Date Occurred: 7/3/1997
Submit Date: 8/21/1997

GW Contam: Yes, Groundwater Contamination has been detected

Soil Contam: No

Incident Desc: UPON REMOVAL OF 3 USTS, SOIL CONTAM. WAS AS HIGH AS 25,800 PPM GAS.

Operator: MR. GLEN CLINE
Contact Phone: Not reported
Owner Company: Not reported
Operator Address:2300 SUNSET ROAD

Operator City: CHARLOTTE

Oper City, St, Zip: CHARLOTTE, NC 28216

Ownership: Unknown
Operation: Not reported
Material: GASOLINE
Qty Lost 1: Not reported
Qty Recovered 1: Not reported
Material: KEROSENE

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

### GLEN CLARENCE CLINE PROPERTY (FORMER) (Continued)

S102868499

Qty Lost: Not reported Qty Recovered: Not reported Leak-underground Source: Gasoline/diesel Type: Location: Facility

Setting: Residential Risk Site: Н Site Priority: В Priority Code: Н Priority Update: 5/30/1998 Dem Contact: AJS

Num Affected:

Wells Affected:

Wells Contam: Not reported Sampled By: Other Samples Include: Soil Samples

7.5 Min Quad: Not reported P64W 5 Min Quad: Latitude: 35.33527777 Longitude: -80.71555555 Latitude Number: 352007 Longitude Number: 804256

Latitude Decimal: 35.335277777778 Longitude Decimal: 80.715555555556

Not reported

GPS: 3 Agency: DWM Facility ID: 17696 Last Modified: 4/15/2011 Incident Phase: Closed Out NOV Issued: Not reported NORR Issued: Not reported 45 Day Report: Not reported Public Meeting Held: Not reported Corrective Action Planned: Not reported SOC Sighned: Not reported Reclassification Report: Not reported RS Designation: Not reported Closure Request Date: Not reported Close-out Report: Not reported

GLEN CLARENCE CLINE PROP (SOLV Name:

Address: 11431 US HWY 29 City: **CHARLOTTE** Region: MOR 20596 Facility ID: Date Occurred: 3/15/1999 Submit Date: 10/4/1999

GW Contam: Yes, Groundwater Contamination has been detected

Soil Contam: Not reported

SITE FORWARDED FROM DWM, PCE DETECTED IN DEEP AND SHALLOW GW Incident Desc:

MONITORING WELLS INSTALLED AS PART OF UST CSA, NO WSW DOWNGRADIENT,

WSW UPG NOT IMPACTED, NEED TO D

Operator:

Contact Phone: Not reported Owner Company: Not reported Operator Address:Not reported

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

### GLEN CLARENCE CLINE PROPERTY (FORMER) (Continued)

S102868499

Operator City: Not reported Oper City,St,Zip: Not reported Ownership: Municipal Operation: Agricultural Material: PCE Qty Lost 1: Not reported Qty Recovered 1: Not reported

GASOLINE Material: Qty Lost: Not reported Qty Recovered: Not reported Source: Unknown Other inorganics Type:

Location: Facility Setting: Residential Risk Site:

Site Priority: Not reported

Priority Code:

10/26/1999 Priority Update: Dem Contact: AHP Wells Affected: No Num Affected: 0

Wells Contam: Not reported

Sampled By: Other

Samples Include: Groundwater Samples 7.5 Min Quad: Not reported 5 Min Quad: P64W Latitude: Not reported Longitude: Not reported Latitude Number: Not reported Longitude Number: Not reported Not reported Latitude Decimal: Longitude Decimal: Not reported GPS: **GPS** DWQ

Agency: Facility ID: Not reported Last Modified: Not reported Incident Phase: Not reported NOV Issued: Not reported NORR Issued: Not reported 45 Day Report: Not reported Public Meeting Held: Not reported Corrective Action Planned: Not reported SOC Sighned: Not reported Reclassification Report: Not reported RS Designation: Not reported Closure Request Date: Not reported Close-out Report: Not reported

GLEN CLARENCE CLINE PROPERTY (FORMER) Name:

11431 US HIGHWAY 29 Address:

City: CHARLOTTE Region: Not reported Facility ID: 17696 Date Occurred: 7/3/1997 Submit Date: 8/21/1997 GW Contam: Not reported

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

### GLEN CLARENCE CLINE PROPERTY (FORMER) (Continued)

S102868499

Soil Contam: Not reported

UPON REMOVAL OF 3 USTS, SOIL CONTAM. WAS AS HIGH AS 25,800 PPM GAS. Incident Desc:

Operator: MR. GLEN CLINE Contact Phone: Not reported Owner Company: Not reported Operator Address:Not reported Operator City: Not reported Oper City,St,Zip: Not reported Ownership: Unknown Operation: Commercial Material: Not reported Qty Lost 1: Not reported Qty Recovered 1: Not reported Source: Not reported Type: Gasoline/diesel Location: Facility Setting: Not reported

Site Priority:

Risk Site:

Not reported Priority Code: Priority Update: 5/30/1998 Dem Contact: Not reported

Wells Affected: No Num Affected:

Wells Contam: Not reported Sampled By: Other Samples Include: Soil Samples

7.5 Min Quad: Not reported P64W 5 Min Quad:

Latitude: 35.335540000000002 Longitude: -80.715729999999994

Not reported

Latitude Number: Not reported Longitude Number: Not reported Latitude Decimal: Not reported Longitude Decimal: Not reported GPS: Not reported Agency: Not reported Facility ID: 17696 Last Modified: 4/15/2011 Incident Phase: Closed Out NOV Issued: Not reported NORR Issued: Not reported 45 Day Report: Not reported Public Meeting Held: Not reported Corrective Action Planned: Not reported SOC Sighned: Not reported Reclassification Report: Not reported RS Designation: Not reported Closure Request Date: Not reported Close-out Report: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

E20 THE FLATS AT MALLARD CREEK LUST S110143806
South 523 E MALLARD CREEK CHURCH RD IMD N/A

1/8-1/4 CHARLOTTE, NC 28262

0.210 mi.

1109 ft. Site 2 of 2 in cluster E

Relative: LUST: Higher Nam

HigherName:THE FLATS AT MALLARD CREEKActual:Address:523 E MALLARD CREEK CHURCH RD

629 ft. City,State,Zip: CHARLOTTE, NC 28262

Facility ID: Not reported UST Number: MO-8168 Incident Number: 36758

Contamination Type: SL Source Type: Leak-underground

Product Type: P

 Date Reported:
 10/26/2009

 Date Occur:
 09/08/2009

 Cleanup:
 09/03/2009

 Closure Request:
 Not reported

 Close Out:
 01/21/2010

Level Of Soil Cleanup Achieved: Soil to Groundwater

Tank Regulated Status: N

# Of Supply Wells: 0

Commercial/NonCommercial UST Site: NON COMMERCIAL

Risk Classification:

Risk Class Based On Review:

Corrective Action Plan Type: Not reported

NOV Issue Date: Not reported NORR Issue Date: Not reported Not reported Site Priority: Not reported Phase Of LSA Req: Site Risk Reason: Not reported Land Use: Residential MTBE: No MTBE1: Unknown Flag: Yes Flag1: No LUR Filed: Not reported

Release Detection: 0

Current Status: File Located in Archives

RBCA GW: Not reported

PETOPT: 4 RPL: False CD Num: 422 0 Reel Num: RPOW: False RPOP: False Error Flag: 0 Error Code: Ν Valid: False

Lat/Long Decimal: 35.3188 -80.7281
Testlat: Not reported
Regional Officer Project Mgr: BLM
Region: MOR
Company: TBD

Contact Person: LAST USE DATE UNKNOWN

Telephone: Not reported RP Address: Not reported

**EDR ID Number** 

Direction Distance

Elevation Site Database(s) EPA ID Number

## THE FLATS AT MALLARD CREEK (Continued)

S110143806

**EDR ID Number** 

RP City,St,Zip: NC

RP County: Not reported

Comments: 1,000 GALLON UST FOUND DURING MASS GRADING ACTIVITIES.

5 Min Quad: Not reported

PIRF:

Facility Id: 36758

Date Occurred: 9/8/2009

Date Reported: 10/26/2009

Description Of Incident: Not reported

Owner/Operator: Not reported

 Ownership:
 4

 Operation Type:
 3

 Type:
 4

 Location:
 8

Site Priority: Not reported Priority Update: Not reported

Wells Affected Y/N: N

Samples Include: Not reported

7#5 Minute Quad:

5 Minute Quad: Not reported Pirf/Min Soil: Not reported Release Code: Not reported Source Code: Not reported

 Err Type:
 2

 Cause:
 7

 Source:
 A

 Ust Number:
 P

Last Modified: Not reported Incident Phase: **Closed Out** NOV Issued: Not reported NORR Issued: Not reported 45 Day Report: Not reported Public Meeting Held: Not reported Corrective Action Planned: Not reported SOC Signed: Not reported Not reported Reclassification Report: **RS** Designation: Not reported Closure Request Date: Not reported Close-out Report: Not reported

Click here to access the North Carolina DEQ records for this facility:

IMD:

Name: THE FLATS AT MALLARD CREEK
Address: 523 E MALLARD CREEK CHURCH RD

City: CHARLOTTE Region: Not reported Facility ID: 36758 Date Occurred: 9/8/2009 Submit Date: 10/26/2009 GW Contam: Not reported Soil Contam: Not reported Incident Desc: Not reported Operator: Not reported Contact Phone: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

### THE FLATS AT MALLARD CREEK (Continued)

S110143806

**EDR ID Number** 

Owner Company: Not reported Operator Address:Not reported Operator City: Not reported Oper City, St, Zip: Not reported Ownership: Private Operation: Residential Not reported Material: Qty Lost 1: Not reported Qty Recovered 1: Not reported Source: Not reported Type: Heating Oil

Location: 8

Setting: Not reported
Risk Site: Not reported
Site Priority: Not reported
Priority Code: Not reported
Priority Update: Not reported
Dem Contact: Not reported

Wells Affected: No

Num Affected: Not reported Wells Contam: Not reported

Sampled By: Y

Samples Include: Not reported

7.5 Min Quad: Not reported 5 Min Quad: Not reported

Latitude: 35.318820000000002 Longitude: -80.728160000000003

Latitude Number: Not reported Longitude Number: Not reported Latitude Decimal: Not reported Longitude Decimal: Not reported GPS: Not reported Agency: Not reported Facility ID: 36758 Last Modified: Not reported Incident Phase: Closed Out NOV Issued: Not reported NORR Issued: Not reported 45 Day Report: Not reported Public Meeting Held: Not reported Corrective Action Planned: Not reported SOC Sighned: Not reported Reclassification Report: Not reported RS Designation: Not reported Closure Request Date: Not reported Close-out Report: Not reported

Direction Distance

Distance Elevation Site EDR ID Number Database(s) EPA ID Number

21 AMPHITHEATER ENTERTAINMENT COR SWF/LF S103240142 ENE 707 BLOCKBUSTER ROAD HIST LF N/A

ENE 707 BLOCKBUSTER ROAD 1/8-1/4 CHARLOTTE, NC

1/8-1/4 0.213 mi. 1126 ft.

Relative: LF:

Higher Name: AMPHITHEATER ENTERTAINMENT COR

Actual: Address: 707 BLOCKBUSTER ROAD

631 ft. City,State,Zip: CHARLOTTE, NC Permit Num: 60AT-LCID-

Waste: LCID
Activity: LF

Contact Name: Jim Hansen
Contact Telephone: Not reported
Facility Status: InactiveClosed
Mailing Address: Not reported
Mailing City: Not reported

HIST\_LF:

Facility Type: Land Clearing and Inert Debris

permit\_num: 60-AT
Facility Fax: Not reported
Contact Name: JIM HANSEN
Contact Title: Not reported
Contact Telephone: Not reported

Contact Address: 707 BLOCKBUSTER ROAD Contact City, St, Zip: CHARLOTTE, NC 28262

Lined: False
Facility Id: P0404
Facility Status: OPEN
Public/Private: PRIVATE
Waste Mgmt Specialist: Teresa Bradford

22 HISTORIC ALEXANDER PROPERTY LUST \$118128311 WSW 218 W MALLARD CREEK CHURCH RD IMD N/A

HISTORIC ALEXANDER PROPERTY

1/8-1/4 0.238 mi. 1259 ft.

Relative: LUST: Higher Name:

Actual: Address: 218 W MALLARD CREEK CHURCH RD

622 ft. City,State,Zip: CHARLOTTE, NC 28262

CHARLOTTE, NC 28262

Facility ID: Not reported UST Number: MO-6791 Incident Number: 27533

Contamination Type: SL Source Type: Leak-underground

Product Type: F

 Date Reported:
 04/21/2003

 Date Occur:
 03/12/2003

 Cleanup:
 03/12/2003

 Closure Request:
 Not reported

 Close Out:
 08/06/2003

Level Of Soil Cleanup Achieved: Soil to Groundwater

Tank Regulated Status: N

# Of Supply Wells: 0

Commercial/NonCommercial UST Site: NON COMMERCIAL

Direction Distance

Elevation Site Database(s) EPA ID Number

## HISTORIC ALEXANDER PROPERTY (Continued)

S118128311

**EDR ID Number** 

Risk Classification: L
Risk Class Based On Review: L

Corrective Action Plan Type: Not reported

NOV Issue Date: Not reported NORR Issue Date: Not reported Not reported Site Priority: Phase Of LSA Req: Not reported Site Risk Reason: Not reported Land Use: Residential MTBE: No MTBE1: Unknown Flag: No Flag1: No

LUR Filed: Not reported

Release Detection: 0

Current Status: File Located in Archives

RBCA GW: Not reported

 PETOPT:
 4

 RPL:
 False

 CD Num:
 184

 Reel Num:
 0

 RPOW:
 False

 RPOP:
 False

 Error Flag:
 0

Error Code: Not reported Valid: False

Lat/Long Decimal: 35.3235 -80.7346 Testlat: Not reported Regional Officer Project Mgr: AJS MOR Region: Company: Not reported Contact Person: Not reported Telephone: Not reported RP Address: Not reported

RP City,St,Zip: NC

RP County: Not reported

Comments: Not reported 5 Min Quad: Not reported

PIRF:

Facility Id: 27533

Date Occurred: 3/12/2003

Date Reported: 4/21/2003

Description Of Incident: Not reported

Owner/Operator: Not reported

Ownership: 1
Operation Type: 3
Type: 4
Location: 7

Site Priority: Not reported Priority Update: Not reported

Wells Affected Y/N: N

Samples Include: Not reported

7#5 Minute Quad:

5 Minute Quad:

Pirf/Min Soil:

Release Code:

Source Code:

Not reported

Not reported

Not reported

Not reported

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

### **HISTORIC ALEXANDER PROPERTY (Continued)**

S118128311

Err Type:

Not reported Cause: Source: Not reported Ust Number: Not reported

Last Modified: 8/6/2003 Incident Phase: **Closed Out** NOV Issued: Not reported NORR Issued: Not reported 45 Day Report: Not reported Public Meeting Held: Not reported Not reported Corrective Action Planned: SOC Signed: Not reported Reclassification Report: Not reported RS Designation: Not reported Closure Request Date: Not reported Close-out Report: Not reported

Click here to access the North Carolina DEQ records for this facility:

#### IMD:

City:

HISTORIC ALEXANDER PROPERTY Name: Address: 218 W MALLARD CREEK CHURCH RD

CHARLOTTE

Region: Not reported Facility ID: 27533 Date Occurred: 3/12/2003 Submit Date: 4/21/2003 GW Contam: Not reported Soil Contam: Not reported Incident Desc: Not reported Operator: Not reported Contact Phone: Not reported Owner Company: Not reported Operator Address:Not reported Operator City: Not reported Oper City, St, Zip: Not reported Ownership: Municipal Residential Operation: Material: Not reported Qty Lost 1: Not reported Qty Recovered 1: Not reported Source: Not reported Type: Heating Oil Location: Residence Setting: Not reported Risk Site: Not reported Site Priority: Not reported Priority Code: Not reported Priority Update: Not reported Dem Contact: Not reported

Wells Affected: No

Num Affected: Not reported Not reported Wells Contam:

Sampled By:

Samples Include: Not reported

7.5 Min Quad: Not reported

Direction Distance

**EDR ID Number** Elevation Site **EPA ID Number** Database(s)

### **HISTORIC ALEXANDER PROPERTY (Continued)**

S118128311

5 Min Quad: Not reported

35.323599999999999 Latitude: -80.734660000000005 Longitude:

Latitude Number: Not reported Longitude Number: Not reported Latitude Decimal: Not reported Not reported Longitude Decimal: Not reported GPS: Agency: Not reported Facility ID: 27533 Last Modified: 8/6/2003 Incident Phase: Closed Out NOV Issued: Not reported NORR Issued: Not reported 45 Day Report: Not reported Public Meeting Held: Not reported Corrective Action Planned: Not reported SOC Sighned: Not reported Reclassification Report: Not reported **RS** Designation: Not reported Closure Request Date: Not reported Close-out Report: Not reported

23 **BLYTHE CONSTRUCTION, INC.** RCRA-VSQG 1001079084 South **575 MALLARD CREEK CHURCH RD** NCR000003012

1/8-1/4 CHARLOTTE, NC 28262

0.240 mi. 1268 ft.

Relative: RCRA-VSQG:

Higher Date form received by agency: 2018-10-16 00:00:00.0

BLYTHE CONSTRUCTION, INC. Facility name: Actual: 575 MALLARD CREEK CHURCH RD Facility address: 641 ft.

CHARLOTTE, NC 28262

EPA ID: NCR000003012 Mailing address: WILKINSON BLVD

CHARLOTTE, NC 28214-7006

**GREG W DAVIS** Contact: Contact address: WILKINSON BLVD

CHARLOTTE, NC 28214-7006

Contact country:

Contact telephone: 704-395-3264

Contact email: GWDAVIS@LANECONSTRUCT.COM

EPA Region:

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar

month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from

MAP FINDINGS Map ID Direction

Distance Elevation

Site Database(s) **EPA ID Number** 

## **BLYTHE CONSTRUCTION, INC. (Continued)**

1001079084

**EDR ID Number** 

the cleanup of a spill, into or on any land or water, of acutely

hazardous waste

Owner/Operator Summary:

Owner/operator name: BLYTHE CONSTRUCTION, INC.

Owner/operator address: N GRAHAM ST

CHARLOTTE, NC 28206

Owner/operator country: US

Owner/operator telephone: 704-375-8474 Owner/operator email: Not reported Owner/operator fax: 704-375-7814 Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Operator

Owner/Op start date: 2018-11-01 00:00:00.

Owner/Op end date: Not reported

Owner/operator name: BLYTHE CONSTRUCTION, INC.

Owner/operator address: N GRAHAM ST

CHARLOTTE, NC 28206

Owner/operator country: US

Owner/operator telephone: 704-375-8474 Owner/operator email: Not reported Owner/operator fax: 704-375-7814 Owner/operator extension: Not reported Legal status: Private

Owner/Operator Type: Owner

Owner/Op start date: 2018-11-01 00:00:00.

Owner/Op end date: Not reported

### Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

### Historical Generators:

Date form received by agency: 2009-11-23 00:00:00.0

REA CONTRACTING MALLARD CREEK HMA Site name: Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 2001-01-29 00:00:00.0

Site name: REA MALLARD CREEK ASPHALT PLANT Classification: Conditionally Exempt Small Quantity Generator

Direction Distance

**EDR ID Number** Elevation **EPA ID Number** Site Database(s)

### **BLYTHE CONSTRUCTION, INC. (Continued)**

1001079084

Date form received by agency: 1997-09-04 00:00:00.0

REA MALLARD CREEK ASPHALT PLANT Site name:

Small Quantity Generator Classification:

Hazardous Waste Summary:

D001 Waste code:

**IGNITABLE WASTE** Waste name:

Waste code: F001

Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING:

TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED

FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED

IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE

SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F002

THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, Waste name:

METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE,

CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE,

ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2,

TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND

SPENT SOLVENT MIXTURES.

Waste code: F003

Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL

> ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT

MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS: AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT

MIXTURES.

Violation Status: No violations found

24 **KENNETH C. REEVES** SWF/LF S109164096

NNE 2323 SALOME CHURCH ROAD CHARLOTTE, NC 1/4-1/2

0.411 mi.

2171 ft.

Relative: LF:

Higher KENNETH C. REEVES Name:

2323 SALOME CHURCH ROAD Address: Actual:

City, State, Zip: CHARLOTTE, NC 628 ft.

Permit Num: 60S-LCID-Waste: **LCID** Activity: 1 F

Contact Name: Kenneth Reeves N/A

Map ID
Direction

MAP FINDINGS

Distance Elevation Site

Database(s)

EDR ID Number EPA ID Number

KENNETH C. REEVES (Continued)

Contact Telephone: (704) 548-8377

Facility Status: Open
Mailing Address: Not reported
Mailing City: Not reported

S109164096

Count: 3 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CHARLOTTE	S105219438	ALEXANDER PROPERTY	10130 & 10214 MALLARD CREEK RD		LUST TRUST
CHARLOTTE	S109164081	CAROWINDS	CATAWBA SERVICE ROAD		SWF/LF
CHARLOTTE	S109164076	BLYTHE CONSTRUCTION COMPANY	MALLARD CREED CHURCH ROAD		SWF/LF

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## STANDARD ENVIRONMENTAL RECORDS

#### Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 01/30/2020 Source: EPA
Date Data Arrived at EDR: 02/05/2020 Telephone: N/A

Date Made Active in Reports: 02/14/2020 Last EDR Contact: 05/06/2020

Number of Days to Update: 9 Next Scheduled EDR Contact: 07/13/2020
Data Release Frequency: Quarterly

**NPL Site Boundaries** 

Sources

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 EPA Region 8

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 Telephone: 415-947-4246

EPA Region 10

Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 01/30/2020 Source: EPA
Date Data Arrived at EDR: 02/05/2020 Telephone: N/A

Date Made Active in Reports: 02/14/2020 Last EDR Contact: 05/06/2020 Number of Days to Update: 9 Next Scheduled EDR Contact:

Next Scheduled EDR Contact: 07/13/2020 Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994

Number of Days to Update: 56

Source: EPA

Telephone: 202-564-4267 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned

### Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 01/30/2020 Date Data Arrived at EDR: 02/05/2020 Date Made Active in Reports: 02/14/2020

Number of Days to Update: 9

Source: EPA Telephone: N/A

Last EDR Contact: 05/06/2020

Next Scheduled EDR Contact: 07/13/2020 Data Release Frequency: Quarterly

### Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019 Date Data Arrived at EDR: 04/05/2019 Date Made Active in Reports: 05/14/2019

Number of Days to Update: 39

Source: Environmental Protection Agency Telephone: 703-603-8704

Last EDR Contact: 04/03/2020

Next Scheduled EDR Contact: 07/13/2020 Data Release Frequency: Varies

### SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/30/2020 Date Data Arrived at EDR: 02/05/2020 Date Made Active in Reports: 02/14/2020

Number of Days to Update: 9

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 05/06/2020

Next Scheduled EDR Contact: 07/27/2020 Data Release Frequency: Quarterly

#### Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 01/30/2020 Date Data Arrived at EDR: 02/05/2020 Date Made Active in Reports: 02/14/2020

Number of Days to Update: 9

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 05/06/2020

Next Scheduled EDR Contact: 07/27/2020 Data Release Frequency: Quarterly

### Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/16/2019 Date Data Arrived at EDR: 12/16/2019 Date Made Active in Reports: 12/20/2019

Number of Days to Update: 4

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 03/25/2020

Next Scheduled EDR Contact: 07/06/2020 Data Release Frequency: Quarterly

#### Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/16/2019 Date Data Arrived at EDR: 12/16/2019 Date Made Active in Reports: 12/20/2019

Number of Days to Update: 4

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 03/25/2020

Next Scheduled EDR Contact: 07/06/2020 Data Release Frequency: Quarterly

## Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019

Number of Days to Update: 4

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 03/25/2020

Next Scheduled EDR Contact: 07/06/2020 Data Release Frequency: Quarterly

### RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/16/2019 Date Data Arrived at EDR: 12/16/2019 Date Made Active in Reports: 12/20/2019

Number of Days to Update: 4

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 03/25/2020

Next Scheduled EDR Contact: 07/06/2020 Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation
and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database
includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste
as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate
less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/16/2019 Date Data Arrived at EDR: 12/16/2019 Date Made Active in Reports: 12/20/2019

Number of Days to Update: 4

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 03/25/2020

Next Scheduled EDR Contact: 07/06/2020 Data Release Frequency: Quarterly

## Federal institutional controls / engineering controls registries

### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 11/04/2019 Date Data Arrived at EDR: 11/13/2019 Date Made Active in Reports: 01/28/2020

Number of Days to Update: 76

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 02/10/2020

Next Scheduled EDR Contact: 05/25/2020 Data Release Frequency: Varies

### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 11/22/2019 Date Data Arrived at EDR: 11/22/2019 Date Made Active in Reports: 01/28/2020

Number of Days to Update: 67

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 02/20/2020

Next Scheduled EDR Contact: 06/08/2020 Data Release Frequency: Varies

### US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 11/22/2019 Date Data Arrived at EDR: 11/22/2019 Date Made Active in Reports: 01/28/2020

Number of Days to Update: 67

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 02/20/2020

Next Scheduled EDR Contact: 06/08/2020

Data Release Frequency: Varies

#### Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous

substances.

Date of Government Version: 12/16/2019 Date Data Arrived at EDR: 12/19/2019 Date Made Active in Reports: 03/06/2020

Number of Days to Update: 78

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 03/24/2020

Next Scheduled EDR Contact: 07/06/2020 Data Release Frequency: Quarterly

### State- and tribal - equivalent NPL

HSDS: Hazardous Substance Disposal Site

Locations of uncontrolled and unregulated hazardous waste sites. The file includes sites on the National Priority

List as well as those on the state priority list.

Date of Government Version: 08/09/2011 Date Data Arrived at EDR: 11/08/2011 Date Made Active in Reports: 12/05/2011

Number of Days to Update: 27

Source: North Carolina Center for Geographic Information and Analysis

Telephone: 919-754-6580 Last EDR Contact: 04/10/2020

Next Scheduled EDR Contact: 08/03/2020 Data Release Frequency: Biennially

### State- and tribal - equivalent CERCLIS

SHWS: Inactive Hazardous Sites Inventory

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 09/17/2019 Date Data Arrived at EDR: 12/11/2019 Date Made Active in Reports: 02/24/2020

Number of Days to Update: 75

Source: Department of Environment, Health and Natural Resources

Telephone: 919-508-8400 Last EDR Contact: 03/11/2020

Next Scheduled EDR Contact: 06/22/2020 Data Release Frequency: Quarterly

#### State and tribal landfill and/or solid waste disposal site lists

SWF/LF: List of Solid Waste Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/05/2019 Date Data Arrived at EDR: 12/19/2019 Date Made Active in Reports: 02/24/2020

Number of Days to Update: 67

Source: Department of Environment and Natural Resources

Telephone: 919-733-0692 Last EDR Contact: 03/24/2020

Next Scheduled EDR Contact: 07/06/2020 Data Release Frequency: Varies

OLI: Old Landfill Inventory

Old landfill inventory location information. (Does not include no further action sites and other agency lead sites).

Date of Government Version: 08/22/2019 Date Data Arrived at EDR: 10/11/2019 Date Made Active in Reports: 12/19/2019

Number of Days to Update: 69

Source: Department of Environment & Natural Resources

Telephone: 919-733-4996 Last EDR Contact: 04/10/2020

Next Scheduled EDR Contact: 07/20/2020 Data Release Frequency: Varies

DEBRIS: Solid Waste Active Disaster Debris Sites Listing

NCDEQ Division of Waste Management Solid Waste Section Temporary Disaster Debris Staging Site (TDDSS) Locations which are available to be activated in a disaster or emergency. Disaster Debris Sites can only be used for temporary disaster debris storage if the site's responsible party activates the site for use by notifying the NCDEQ DWM Solid Waste Section staff during an emergency

Date of Government Version: 10/31/2019 Date Data Arrived at EDR: 12/20/2019 Date Made Active in Reports: 02/24/2020

Number of Days to Update: 66

Source: Department of Environmental Quality

Telephone: 919-707-8247 Last EDR Contact: 03/20/2020

Next Scheduled EDR Contact: 06/29/2020 Data Release Frequency: Varies

LCID: Land-Clearing and Inert Debris (LCID) Landfill Notifications

A list all of the Land-Clearing and Inert Debris (LCID) Landfill Notification facilities (under 2 acres in size) in North Carolina.

Date of Government Version: 09/06/2018 Date Data Arrived at EDR: 01/09/2019 Date Made Active in Reports: 03/25/2019

Number of Days to Update: 75

Source: Department of Environmental Quality

Telephone: 919-707-8248 Last EDR Contact: 04/10/2020

Next Scheduled EDR Contact: 07/20/2020

Data Release Frequency: Varies

### State and tribal leaking storage tank lists

LUST: Regional UST Database

This database contains information obtained from the Regional Offices. It provides a more detailed explanation of current and historic activity for individual sites, as well as what was previously found in the Incident Management Database. Sites in this database with Incident Numbers are considered LUSTs.

Date of Government Version: 01/17/2020 Date Data Arrived at EDR: 02/04/2020 Date Made Active in Reports: 04/07/2020

Number of Days to Update: 63

Source: Department of Environment and Natural Resources

Telephone: 919-707-8200 Last EDR Contact: 05/05/2020

Next Scheduled EDR Contact: 08/17/2020 Data Release Frequency: Quarterly

LAST: Leaking Aboveground Storage Tanks

A listing of leaking aboveground storage tank site locations.

Date of Government Version: 01/17/2020 Date Data Arrived at EDR: 02/04/2020 Date Made Active in Reports: 04/17/2020

Number of Days to Update: 73

Source: Department of Environment & Natural Resources

Telephone: 877-623-6748 Last EDR Contact: 05/05/2020

Next Scheduled EDR Contact: 08/17/2020 Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/01/2019 Date Data Arrived at EDR: 12/04/2019 Date Made Active in Reports: 02/10/2020

Number of Days to Update: 68

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 04/24/2020

Next Scheduled EDR Contact: 08/03/2020 Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/03/2019 Date Data Arrived at EDR: 12/04/2019 Date Made Active in Reports: 02/14/2020

Number of Days to Update: 72

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 04/24/2020

Next Scheduled EDR Contact: 08/03/2020 Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/02/2019 Date Data Arrived at EDR: 12/04/2019 Date Made Active in Reports: 02/10/2020

Number of Days to Update: 68

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 04/24/2020

Next Scheduled EDR Contact: 08/03/2020 Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/01/2019 Date Data Arrived at EDR: 12/04/2019 Date Made Active in Reports: 02/10/2020

Number of Days to Update: 68

Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 04/24/2020

Next Scheduled EDR Contact: 08/03/2020 Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/04/2019 Date Data Arrived at EDR: 12/04/2019 Date Made Active in Reports: 02/27/2020

Number of Days to Update: 85

Source: Environmental Protection Agency Telephone: 415-972-3372 Last EDR Contact: 04/24/2020

Next Scheduled EDR Contact: 08/03/2020 Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/10/2019
Date Data Arrived at EDR: 12/05/2019
Date Made Active in Reports: 02/10/2020

Number of Days to Update: 67

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 04/24/2020

Next Scheduled EDR Contact: 08/03/2020 Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/11/2019 Date Data Arrived at EDR: 12/04/2019 Date Made Active in Reports: 02/10/2020

Number of Days to Update: 68

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 04/23/2020

Next Scheduled EDR Contact: 08/02/2020 Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/15/2019 Date Data Arrived at EDR: 12/17/2019 Date Made Active in Reports: 02/10/2020

Number of Days to Update: 55

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 04/24/2020

Next Scheduled EDR Contact: 08/03/2020 Data Release Frequency: Varies

LUST TRUST: State Trust Fund Database

This database contains information about claims against the State Trust Funds for reimbursements for expenses incurred while remediating Leaking USTs.

Date of Government Version: 01/03/2020 Date Data Arrived at EDR: 01/08/2020 Date Made Active in Reports: 03/12/2020

Number of Days to Update: 64

Source: Department of Environment and Natural Resources

Telephone: 919-733-1315 Last EDR Contact: 04/08/2020

Next Scheduled EDR Contact: 07/20/2020 Data Release Frequency: Quarterly

### State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 08/27/2019 Date Data Arrived at EDR: 08/28/2019 Date Made Active in Reports: 11/11/2019

Number of Days to Update: 75

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 03/19/2020

Next Scheduled EDR Contact: 07/20/2020 Data Release Frequency: Varies

### UST: Petroleum Underground Storage Tank Database

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 01/17/2020 Date Data Arrived at EDR: 02/04/2020 Date Made Active in Reports: 04/06/2020

Number of Days to Update: 62

Source: Department of Environment and Natural Resources

Telephone: 919-733-1308 Last EDR Contact: 05/05/2020

Next Scheduled EDR Contact: 08/17/2020 Data Release Frequency: Quarterly

#### AST: AST Database

Facilities with aboveground storage tanks that have a capacity greater than 21,000 gallons.

Date of Government Version: 10/15/2019 Date Data Arrived at EDR: 12/13/2019 Date Made Active in Reports: 02/24/2020

Number of Days to Update: 73

Source: Department of Environment and Natural Resources

Telephone: 919-715-6183 Last EDR Contact: 03/16/2020

Next Scheduled EDR Contact: 06/29/2020 Data Release Frequency: Semi-Annually

## INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/11/2019 Date Data Arrived at EDR: 12/04/2019 Date Made Active in Reports: 02/10/2020

Number of Days to Update: 68

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 04/24/2020

Next Scheduled EDR Contact: 08/03/2020

Data Release Frequency: Varies

### INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/01/2019 Date Data Arrived at EDR: 12/04/2019 Date Made Active in Reports: 02/10/2020

Number of Days to Update: 68

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 04/24/2020

Next Scheduled EDR Contact: 08/03/2020 Data Release Frequency: Varies

#### INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/10/2019 Date Data Arrived at EDR: 12/05/2019 Date Made Active in Reports: 02/10/2020

Number of Days to Update: 67

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 04/24/2020

Next Scheduled EDR Contact: 08/03/2020 Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/01/2019 Date Data Arrived at EDR: 12/04/2019 Date Made Active in Reports: 02/10/2020

Number of Days to Update: 68

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 04/24/2020

Next Scheduled EDR Contact: 08/03/2020 Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/02/2019 Date Data Arrived at EDR: 12/04/2019 Date Made Active in Reports: 02/10/2020

Number of Days to Update: 68

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 04/24/2020

Next Scheduled EDR Contact: 08/03/2020 Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/11/2019 Date Data Arrived at EDR: 12/04/2019 Date Made Active in Reports: 02/10/2020

Number of Days to Update: 68

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 04/24/2020

Next Scheduled EDR Contact: 08/03/2020

Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/03/2019 Date Data Arrived at EDR: 12/04/2019 Date Made Active in Reports: 02/14/2020

Number of Days to Update: 72

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 04/24/2020

Next Scheduled EDR Contact: 08/03/2020 Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/04/2019 Date Data Arrived at EDR: 12/04/2019 Date Made Active in Reports: 02/27/2020

Number of Days to Update: 85

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 04/24/2020

Next Scheduled EDR Contact: 08/03/2020 Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

INST CONTROL: No Further Action Sites With Land Use Restrictions Monitoring

A land use restricted site is a property where there are limits or requirements on future use of the property due to varying levels of cleanup possible, practical, or necessary at the site.

Date of Government Version: 09/25/2019 Date Data Arrived at EDR: 12/11/2019 Date Made Active in Reports: 02/24/2020

Number of Days to Update: 75

Source: Department of Environmental Quality

Telephone: 919-508-8400 Last EDR Contact: 03/11/2020

Next Scheduled EDR Contact: 06/22/2020 Data Release Frequency: Quarterly

### State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015 Date Data Arrived at EDR: 09/29/2015 Date Made Active in Reports: 02/18/2016 Number of Days to Update: 142

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 03/18/2020

Next Scheduled EDR Contact: 07/06/2020 Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008 Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

Number of Days to Update: 27

Next Scheduled EDR Contact: 07/20/2009 Data Release Frequency: Varies

VCP: Responsible Party Voluntary Action Sites Responsible Party Voluntary Action site locations.

> Date of Government Version: 09/17/2019 Date Data Arrived at EDR: 12/11/2019 Date Made Active in Reports: 02/24/2020

Source: Department of Environment and Natural Resources

Telephone: 919-508-8400 Last EDR Contact: 03/11/2020

Number of Days to Update: 75

Next Scheduled EDR Contact: 06/22/2020 Data Release Frequency: Quarterly

### State and tribal Brownfields sites

**BROWNFIELDS: Brownfields Projects Inventory** 

A brownfield site is an abandoned, idled, or underused property where the threat of environmental contamination has hindered its redevelopment. All of the sites in the inventory are working toward a brownfield agreement for cleanup and liabitly control.

Date of Government Version: 12/02/2019 Date Data Arrived at EDR: 01/02/2020

Source: Department of Environment and Natural Resources

Date Made Active in Reports: 03/11/2020

Telephone: 919-733-4996 Last EDR Contact: 03/31/2020

Number of Days to Update: 69

Next Scheduled EDR Contact: 07/13/2020 Data Release Frequency: Quarterly

### ADDITIONAL ENVIRONMENTAL RECORDS

### Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/02/2019 Date Data Arrived at EDR: 12/16/2019 Date Made Active in Reports: 03/06/2020 Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 03/17/2020

Number of Days to Update: 81

Next Scheduled EDR Contact: 06/29/2020 Data Release Frequency: Semi-Annually

### Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Center Listing

A listing of recycling center locations.

Date of Government Version: 12/11/2019 Date Data Arrived at EDR: 12/12/2019 Date Made Active in Reports: 02/24/2020

Number of Days to Update: 74

Source: Department of Environment & Natural Resources

Telephone: 919-707-8137 Last EDR Contact: 04/09/2020

Next Scheduled EDR Contact: 08/10/2020

Data Release Frequency: Varies

HIST LF: Solid Waste Facility Listing A listing of solid waste facilities.

Date of Government Version: 11/06/2006 Date Data Arrived at EDR: 02/13/2007 Date Made Active in Reports: 03/02/2007

Number of Days to Update: 17

Source: Department of Environment & Natural Resources

Telephone: 919-733-0692 Last EDR Contact: 01/19/2009 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008

Number of Days to Update: 52

Source: Environmental Protection Agency

Telephone: 703-308-8245 Last EDR Contact: 04/16/2020

Next Scheduled EDR Contact: 08/10/2020

Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258

Subtitle D Criteria.

Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside

County and northern Imperial County, California.

Date of Government Version: 01/12/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 137

Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 04/09/2020

Next Scheduled EDR Contact: 08/03/2020 Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014 Date Data Arrived at EDR: 08/06/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service

Telephone: 301-443-1452 Last EDR Contact: 05/01/2020

Next Scheduled EDR Contact: 08/10/2020

Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 06/11/2019 Date Data Arrived at EDR: 06/13/2019 Date Made Active in Reports: 09/03/2019

Number of Days to Update: 82

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 02/21/2020

Next Scheduled EDR Contact: 06/08/2020 Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 06/11/2019 Date Data Arrived at EDR: 06/13/2019 Date Made Active in Reports: 09/03/2019

Number of Days to Update: 82

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 02/21/2020

Next Scheduled EDR Contact: 06/08/2020 Data Release Frequency: Quarterly

### Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 01/30/2020 Date Data Arrived at EDR: 02/05/2020 Date Made Active in Reports: 02/14/2020

Number of Days to Update: 9

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 05/06/2020

Next Scheduled EDR Contact: 07/13/2020 Data Release Frequency: Semi-Annually

## Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/05/2019 Date Data Arrived at EDR: 12/06/2019 Date Made Active in Reports: 02/14/2020

Number of Days to Update: 70

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 03/24/2020

Next Scheduled EDR Contact: 07/06/2020 Data Release Frequency: Quarterly

SPILLS: Spills Incident Listing

A listing spills, hazardous material releases, sanitary sewer overflows, wastewater treatment plant bypasses and upsets, citizen complaints, and any other environmental emergency calls reported to the agency.

Date of Government Version: 01/06/2020 Date Data Arrived at EDR: 01/09/2020 Date Made Active in Reports: 03/16/2020

Number of Days to Update: 67

Source: Department of Environment & Natural Resources

Telephone: 919-807-6308 Last EDR Contact: 03/19/2020

Next Scheduled EDR Contact: 06/22/2020 Data Release Frequency: Quarterly

IMD: Incident Management Database

Groundwater and/or soil contamination incidents

Date of Government Version: 01/17/2020 Date Data Arrived at EDR: 02/04/2020 Date Made Active in Reports: 04/14/2020

Number of Days to Update: 70

Source: Department of Environment and Natural Resources

Telephone: 877-623-6748 Last EDR Contact: 05/05/2020

Next Scheduled EDR Contact: 08/17/2020 Data Release Frequency: No Update Planned

## SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 09/27/2012 Date Data Arrived at EDR: 01/03/2013 Date Made Active in Reports: 03/06/2013

Number of Days to Update: 62

Source: FirstSearch Telephone: N/A

Last EDR Contact: 01/03/2013 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

### SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 06/14/2001 Date Data Arrived at EDR: 01/03/2013 Date Made Active in Reports: 03/06/2013

Number of Days to Update: 62

Source: FirstSearch Telephone: N/A

Last EDR Contact: 01/03/2013 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

### Other Ascertainable Records

## RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/16/2019 Date Data Arrived at EDR: 12/16/2019 Date Made Active in Reports: 12/20/2019

Number of Days to Update: 4

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 03/25/2020

Next Scheduled EDR Contact: 07/06/2020 Data Release Frequency: Quarterly

### FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 11/12/2019 Date Data Arrived at EDR: 11/19/2019 Date Made Active in Reports: 01/28/2020

Number of Days to Update: 70

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 02/19/2020

Next Scheduled EDR Contact: 06/01/2020 Data Release Frequency: Varies

### DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 11/10/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 62

Source: USGS

Telephone: 888-275-8747 Last EDR Contact: 04/10/2020

Next Scheduled EDR Contact: 07/20/2020 Data Release Frequency: Semi-Annually

#### FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018 Date Data Arrived at EDR: 04/11/2018 Date Made Active in Reports: 11/06/2019

Number of Days to Update: 574

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 04/06/2020

Next Scheduled EDR Contact: 07/20/2020

Data Release Frequency: N/A

### SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017 Date Data Arrived at EDR: 02/03/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 63

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 02/13/2020

Next Scheduled EDR Contact: 05/25/2020 Data Release Frequency: Varies

### US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 12/16/2019 Date Data Arrived at EDR: 12/19/2019 Date Made Active in Reports: 02/27/2020

Number of Days to Update: 70

Source: Environmental Protection Agency

Telephone: 202-566-1917 Last EDR Contact: 03/24/2020

Next Scheduled EDR Contact: 07/06/2020 Data Release Frequency: Quarterly

#### EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013 Date Data Arrived at EDR: 03/21/2014 Date Made Active in Reports: 06/17/2014

Number of Days to Update: 88

Source: Environmental Protection Agency

Telephone: 617-520-3000 Last EDR Contact: 05/04/2020

Next Scheduled EDR Contact: 08/17/2020 Data Release Frequency: Quarterly

### 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017 Date Data Arrived at EDR: 05/08/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 73

Source: Environmental Protection Agency

Telephone: 703-308-4044 Last EDR Contact: 02/07/2020

Next Scheduled EDR Contact: 05/18/2020

Data Release Frequency: Varies

### TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant

Source: EPA

Date of Government Version: 12/31/2016 Date Data Arrived at EDR: 06/21/2017 Date Made Active in Reports: 01/05/2018 Number of Days to Update: 198

Telephone: 202-260-5521 Last EDR Contact: 03/20/2020

Next Scheduled EDR Contact: 06/29/2020 Data Release Frequency: Every 4 Years

#### TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Source: EPA

Date of Government Version: 12/31/2018 Date Data Arrived at EDR: 02/05/2020 Date Made Active in Reports: 04/24/2020

Telephone: 202-566-0250 Last EDR Contact: 02/05/2020

Number of Days to Update: 79

Next Scheduled EDR Contact: 06/01/2020 Data Release Frequency: Annually

### SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 05/01/2019 Date Data Arrived at EDR: 10/23/2019 Date Made Active in Reports: 01/15/2020 Source: EPA Telephone: 202-564-4203

Number of Days to Update: 84

Last EDR Contact: 04/21/2020 Next Scheduled EDR Contact: 08/03/2020 Data Release Frequency: Annually

### ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 01/30/2020 Date Data Arrived at EDR: 02/05/2020 Date Made Active in Reports: 02/14/2020

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 05/06/2020

Number of Days to Update: 9

Next Scheduled EDR Contact: 06/15/2020 Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 11/05/2019
Date Data Arrived at EDR: 11/20/2019
Date Made Active in Reports: 04/17/2020

Number of Days to Update: 149

Source: Environmental Protection Agency

Telephone: 202-564-8600 Last EDR Contact: 04/15/2020

Next Scheduled EDR Contact: 08/03/2020 Data Release Frequency: Varies

### RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995

Number of Days to Update: 35

Source: EPA

Telephone: 202-564-4104 Last EDR Contact: 06/02/2008

Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Update Planned

### PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 01/30/2020 Date Data Arrived at EDR: 02/06/2020 Date Made Active in Reports: 02/14/2020

Number of Days to Update: 8

Source: EPA

Telephone: 202-564-6023 Last EDR Contact: 05/06/2020

Next Scheduled EDR Contact: 08/17/2020 Data Release Frequency: Quarterly

### PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 10/09/2019 Date Data Arrived at EDR: 10/11/2019 Date Made Active in Reports: 12/20/2019

Number of Days to Update: 70

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 04/10/2020

Next Scheduled EDR Contact: 07/20/2020 Data Release Frequency: Annually

### ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016 Date Data Arrived at EDR: 11/23/2016 Date Made Active in Reports: 02/10/2017

Number of Days to Update: 79

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 03/26/2020

Next Scheduled EDR Contact: 07/20/2020 Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 08/18/2017

Next Scheduled EDR Contact: 12/04/2017 Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA Telephone: 202-566-1667 Last EDR Contact: 08/18/2017

Next Scheduled EDR Contact: 12/04/2017 Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/25/2019 Date Data Arrived at EDR: 10/25/2019 Date Made Active in Reports: 01/15/2020

Number of Days to Update: 82

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 04/10/2020

Next Scheduled EDR Contact: 08/03/2020 Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2018 Date Data Arrived at EDR: 12/04/2019 Date Made Active in Reports: 01/15/2020

Number of Days to Update: 42

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 03/06/2020

Next Scheduled EDR Contact: 06/15/2020 Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017 Date Data Arrived at EDR: 03/05/2019 Date Made Active in Reports: 11/11/2019

Number of Days to Update: 251

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 02/27/2020

Next Scheduled EDR Contact: 06/15/2020 Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019 Date Data Arrived at EDR: 11/06/2019 Date Made Active in Reports: 02/10/2020

Number of Days to Update: 96

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 02/07/2020

Next Scheduled EDR Contact: 05/18/2020 Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019 Date Data Arrived at EDR: 07/01/2019 Date Made Active in Reports: 09/23/2019

Number of Days to Update: 84

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 07/01/2019

Next Scheduled EDR Contact: 07/13/2020 Data Release Frequency: Quarterly

### HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2007

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

## HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2008

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

### DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020 Date Data Arrived at EDR: 01/28/2020 Date Made Active in Reports: 04/17/2020

Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 04/28/2020

Next Scheduled EDR Contact: 08/10/2020 Data Release Frequency: Quarterly

### CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2019 Date Data Arrived at EDR: 01/17/2020 Date Made Active in Reports: 03/06/2020

Number of Days to Update: 49

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 03/26/2020

Next Scheduled EDR Contact: 07/20/2020 Data Release Frequency: Varies

### BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015 Date Data Arrived at EDR: 02/22/2017 Date Made Active in Reports: 09/28/2017

Number of Days to Update: 218

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 03/25/2020

Next Scheduled EDR Contact: 07/06/2020 Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater

than 640 acres.

Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 07/14/2015 Date Made Active in Reports: 01/10/2017

Number of Days to Update: 546

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 04/10/2020

Next Scheduled EDR Contact: 07/20/2020 Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017 Date Data Arrived at EDR: 09/11/2018 Date Made Active in Reports: 09/14/2018

Number of Days to Update: 3

Source: Department of Energy Telephone: 202-586-3559 Last EDR Contact: 04/29/2020

Next Scheduled EDR Contact: 08/17/2020

Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019 Date Data Arrived at EDR: 11/15/2019 Date Made Active in Reports: 01/28/2020

Number of Days to Update: 74

Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 02/21/2020

Next Scheduled EDR Contact: 06/01/2020

Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/30/2020 Date Data Arrived at EDR: 02/05/2020 Date Made Active in Reports: 02/14/2020

Number of Days to Update: 9

Source: Environmental Protection Agency

Telephone: 703-603-8787 Last EDR Contact: 05/06/2020

Next Scheduled EDR Contact: 07/13/2020

Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001 Date Data Arrived at EDR: 10/27/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 36

Source: American Journal of Public Health

Telephone: 703-305-6451 Last EDR Contact: 12/02/2009 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016 Date Data Arrived at EDR: 10/26/2016 Date Made Active in Reports: 02/03/2017

Number of Days to Update: 100

US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017

Number of Days to Update: 100

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 09/26/2017

Next Scheduled EDR Contact: 01/08/2018 Data Release Frequency: Annually

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 09/26/2017

Next Scheduled EDR Contact: 01/08/2018 Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 12/03/2019 Date Data Arrived at EDR: 12/03/2019 Date Made Active in Reports: 01/28/2020

Number of Days to Update: 56

Source: DOL, Mine Safety & Health Admi

Telephone: 202-693-9424 Last EDR Contact: 03/02/2020

Next Scheduled EDR Contact: 06/15/2020 Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/06/2019 Date Data Arrived at EDR: 11/25/2019 Date Made Active in Reports: 01/28/2020

Number of Days to Update: 64

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 02/25/2020

Next Scheduled EDR Contact: 06/08/2020 Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005 Date Data Arrived at EDR: 02/29/2008 Date Made Active in Reports: 04/18/2008

Number of Days to Update: 49

Source: USGS

Telephone: 703-648-7709 Last EDR Contact: 02/28/2020

Next Scheduled EDR Contact: 06/08/2020 Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011 Date Data Arrived at EDR: 06/08/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 97

Source: USGS

Telephone: 703-648-7709 Last EDR Contact: 02/28/2020

Next Scheduled EDR Contact: 06/08/2020

Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 12/09/2019 Date Data Arrived at EDR: 12/11/2019 Date Made Active in Reports: 02/27/2020

Number of Days to Update: 78

Source: Department of Interior Telephone: 202-208-2609 Last EDR Contact: 03/05/2020

Next Scheduled EDR Contact: 06/22/2020 Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/22/2019 Date Data Arrived at EDR: 12/04/2019 Date Made Active in Reports: 03/02/2020

Number of Days to Update: 89

Source: EPA Telephone: (404) 562-9900 Last EDR Contact: 03/03/2020

Next Scheduled EDR Contact: 06/15/2020 Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 01/05/2020 Date Data Arrived at EDR: 01/07/2020 Date Made Active in Reports: 03/06/2020

Number of Days to Update: 59

Source: Environmental Protection Agency

Telephone: 202-564-2280 Last EDR Contact: 04/07/2020

Next Scheduled EDR Contact: 07/20/2020 Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017 Date Data Arrived at EDR: 01/17/2019 Date Made Active in Reports: 04/01/2019

Number of Days to Update: 74

Source: Department of Defense Telephone: 703-704-1564 Last EDR Contact: 04/03/2020

Next Scheduled EDR Contact: 07/27/2020 Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018 Date Data Arrived at EDR: 07/26/2018 Date Made Active in Reports: 10/05/2018

Number of Days to Update: 71

Source: Environmental Protection Agency

Telephone: 202-564-0527 Last EDR Contact: 02/21/2020

Next Scheduled EDR Contact: 06/08/2020 Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/18/2019 Date Data Arrived at EDR: 11/19/2019 Date Made Active in Reports: 01/28/2020

Number of Days to Update: 70

Source: EPA

Telephone: 800-385-6164 Last EDR Contact: 02/19/2020

Next Scheduled EDR Contact: 06/01/2020 Data Release Frequency: Quarterly

AIRS: Air Quality Permit Listing

A listing of facilities with air quality permits.

Date of Government Version: 12/09/2019 Date Data Arrived at EDR: 12/11/2019 Date Made Active in Reports: 02/21/2020

Number of Days to Update: 72

Source: Department of Environmental Quality

Telephone: 919-707-8726 Last EDR Contact: 03/11/2020

Next Scheduled EDR Contact: 06/22/2020 Data Release Frequency: Varies

ASBESTOS: ASBESTOS
Asbestos notification sites

Date of Government Version: 02/07/2020 Date Data Arrived at EDR: 02/13/2020 Date Made Active in Reports: 04/24/2020

Number of Days to Update: 71

Source: Department of Health & Human Services

Telephone: 919-707-5973 Last EDR Contact: 05/04/2020

Next Scheduled EDR Contact: 08/03/2020

Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites

A listing of coal combustion products distribution permits issued by the Division for the treatment, storage, transportation, use and disposal of coal combustion products.

Date of Government Version: 11/05/2019 Date Data Arrived at EDR: 01/08/2020 Date Made Active in Reports: 03/11/2020

Number of Days to Update: 63

Source: Department of Environment & Natural Resources

Telephone: 919-807-6359 Last EDR Contact: 03/24/2020

Next Scheduled EDR Contact: 07/06/2020

Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Sites

Potential and known drycleaning sites, active and abandoned, that the Drycleaning Solvent Cleanup Program has knowledge of and entered into this database.

Date of Government Version: 12/11/2019 Date Data Arrived at EDR: 12/16/2019 Date Made Active in Reports: 02/25/2020

Number of Days to Update: 71

Source: Department of Environment & Natural Resources

Telephone: 919-508-8400 Last EDR Contact: 03/20/2020

Next Scheduled EDR Contact: 06/29/2020 Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 01/17/2020 Date Data Arrived at EDR: 02/04/2020 Date Made Active in Reports: 04/07/2020

Number of Days to Update: 63

Source: Department of Environment & Natural Resources

Telephone: 919-733-1322 Last EDR Contact: 05/05/2020

Next Scheduled EDR Contact: 08/17/2020 Data Release Frequency: Quarterly

Financial Assurance 2: Financial Assurance Information Listing

Information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 10/02/2012 Date Data Arrived at EDR: 10/03/2012 Date Made Active in Reports: 10/26/2012

Number of Days to Update: 23

Source: Department of Environmental & Natural Resources

Telephone: 919-508-8496 Last EDR Contact: 03/19/2020

Next Scheduled EDR Contact: 07/06/2020

Data Release Frequency: Varies

Financial Assurance 3: Financial Assurance Information Hazardous waste financial assurance information.

Date of Government Version: 01/08/2020 Date Data Arrived at EDR: 01/09/2020 Date Made Active in Reports: 03/12/2020

Number of Days to Update: 63

Source: Department of Environment & Natural Resources

Telephone: 919-707-8222 Last EDR Contact: 03/09/2020

Next Scheduled EDR Contact: 06/22/2020 Data Release Frequency: Varies

NPDES: NPDES Facility Location Listing

General information regarding NPDES(National Pollutant Discharge Elimination System) permits.

Date of Government Version: 12/03/2019 Date Data Arrived at EDR: 01/28/2020 Date Made Active in Reports: 04/06/2020

Number of Days to Update: 69

Source: Department of Environment & Natural Resources

Telephone: 919-733-7015 Last EDR Contact: 04/28/2020

Next Scheduled EDR Contact: 08/10/2020 Data Release Frequency: Varies

UIC: Underground Injection Wells Listing

A listing of uncerground injection wells locations.

Date of Government Version: 12/02/2019 Date Data Arrived at EDR: 12/03/2019 Date Made Active in Reports: 02/05/2020

Number of Days to Update: 64

Source: Department of Environment & Natural Resources

Telephone: 919-807-6412 Last EDR Contact: 03/02/2020

Next Scheduled EDR Contact: 06/15/2020 Data Release Frequency: Quarterly

AOP: Animal Operation Permits Listing

This listing includes animal operations that are required to be permitted by the state.

Date of Government Version: 02/12/2019 Date Data Arrived at EDR: 03/15/2019 Date Made Active in Reports: 05/16/2019

Number of Days to Update: 62

Source: Department of Environmental Quality

Telephone: 919-707-9129 Last EDR Contact: 03/11/2020

Next Scheduled EDR Contact: 06/22/2020 Data Release Frequency: Varies

CCB: Coal Ash Structural Fills (CCB) Listing

These are not permitted Coal Ash landfills A list all of the now closed Coal Ash Structural Fills (CCB) in North Carolina, in point data form. The purpose is to provide the public and other government entities a visual overview of coal ash structural fills throughout the state and increase public awareness of their current locations.

Date of Government Version: 09/06/2018 Date Data Arrived at EDR: 01/09/2019 Date Made Active in Reports: 03/25/2019

Number of Days to Update: 75

Source: Department of Environmental Quality

Telephone: 919-707-8248 Last EDR Contact: 04/08/2020

Next Scheduled EDR Contact: 07/20/2020

Data Release Frequency: Varies

SEPT HAULERS: Permitted Septage Haulers Listing

This list of all active and permitted Septage Land Application Site (SLAS) and Septage Detention and Treatment Facility (SDTF) sites in North Carolina. The purpose of this map is to provide the public and government entities a visual overview of the businesses that manage septage and septage facilities throughout the state.

Date of Government Version: 01/07/2020 Date Data Arrived at EDR: 01/10/2020 Date Made Active in Reports: 03/16/2020

Number of Days to Update: 66

Source: Department of Environmental Quality

Telephone: 919-707-8248 Last EDR Contact: 04/10/2020

Next Scheduled EDR Contact: 07/20/2020

Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018 Date Data Arrived at EDR: 10/21/2019 Date Made Active in Reports: 10/24/2019

Number of Days to Update: 3

Source: USGS

Telephone: 703-648-6533 Last EDR Contact: 02/28/2020

Next Scheduled EDR Contact: 06/08/2020 Data Release Frequency: Varies

PCSRP: Petroleum-Contaminated Soil Remediation Permits

To treat petroleum-contaminated soil in order to protect North Carolinaa??s environment and the health of the citizens of North Carolina.

Date of Government Version: 01/07/2020 Date Data Arrived at EDR: 01/08/2020 Date Made Active in Reports: 03/17/2020

Number of Days to Update: 69

Source: Department of Environmental Quality

Telephone: 919-707-8248 Last EDR Contact: 04/08/2020

Next Scheduled EDR Contact: 07/20/2020

Data Release Frequency: Varies

#### **EDR HIGH RISK HISTORICAL RECORDS**

#### **EDR Exclusive Records**

#### EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

#### EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A

Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

#### EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A

Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

#### **EDR RECOVERED GOVERNMENT ARCHIVES**

#### Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environment, Health and Natural Resources in North Carolina.

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 12/24/2013 Number of Days to Update: 176

Source: Department of Environment, Health and Natural Resources Telephone: N/A

Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environment, Health and Natural Resources in North Carolina.

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 01/13/2014 Number of Days to Update: 196

Source: Department of Environment, Health and Natural Resources

Telephone: N/A

Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environment, Health and Natural Resources in North Carolina.

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 12/20/2013 Number of Days to Update: 172

Source: Department of Environment, Health and Natural Resources

Telephone: N/A

Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

### OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 01/30/2020 Date Data Arrived at EDR: 01/30/2020 Date Made Active in Reports: 03/09/2020

Number of Days to Update: 39

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3375 Last EDR Contact: 01/30/2020

Next Scheduled EDR Contact: 05/25/2020 Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information Hazardous waste manifest information.

Date of Government Version: 12/31/2018 Date Data Arrived at EDR: 04/10/2019 Date Made Active in Reports: 05/16/2019

Number of Days to Update: 36

Source: Department of Environmental Protection

Telephone: N/A

Last EDR Contact: 04/10/2020

Next Scheduled EDR Contact: 07/20/2020 Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD

facility.

Date of Government Version: 01/01/2019 Date Data Arrived at EDR: 05/01/2019 Date Made Active in Reports: 06/21/2019

Number of Days to Update: 51

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 04/29/2020

Next Scheduled EDR Contact: 08/10/2020 Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018 Date Data Arrived at EDR: 07/19/2019 Date Made Active in Reports: 09/10/2019

Number of Days to Update: 53

Source: Department of Environmental Protection

Telephone: 717-783-8990 Last EDR Contact: 04/02/2020

Next Scheduled EDR Contact: 07/27/2020 Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2018 Date Data Arrived at EDR: 10/02/2019 Date Made Active in Reports: 12/10/2019

Number of Days to Update: 69

Source: Department of Environmental Management

Telephone: 401-222-2797 Last EDR Contact: 02/18/2020

Next Scheduled EDR Contact: 06/01/2020 Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018 Date Data Arrived at EDR: 06/19/2019 Date Made Active in Reports: 09/03/2019

Number of Days to Update: 76

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 03/09/2020

Next Scheduled EDR Contact: 06/22/2020 Data Release Frequency: Annually

# Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

**Nursing Homes** 

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

**Private Schools** 

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Facility List

Source: Department of Health & Human Services

Telephone: 919-662-4499

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory Source: US Fish & Wildlife Service

Telephone: 703-358-2171

Current USGS 7.5 Minute Topographic Map Source: U.S. Geological Survey

### STREET AND ADDRESS INFORMATION

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# GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

#### **TARGET PROPERTY ADDRESS**

XCLT TRAIL-MALLARD CREEK CHURCH TO PAVILION BLVD 201 E MALLARD CREEK CHURCH ROAD CHARLOTTE, NC 28262

# TARGET PROPERTY COORDINATES

Latitude (North): 35.324551 - 35° 19' 28.38" Longitude (West): 80.727886 - 80° 43' 40.39"

Universal Tranverse Mercator: Zone 17 UTM X (Meters): 524733.0 UTM Y (Meters): 3908871.0

Elevation: 597 ft. above sea level

### **USGS TOPOGRAPHIC MAP**

Target Property Map: 5948305 HARRISBURG, NC

Version Date: 2013

West Map: 5948299 DERITA, NC

Version Date: 2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# **GROUNDWATER FLOW DIRECTION INFORMATION**

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

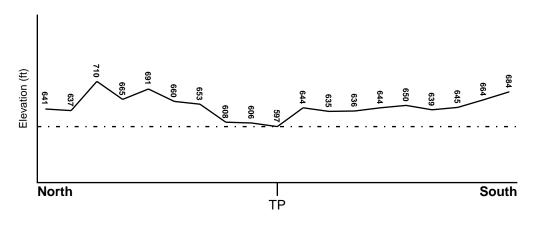
### **TOPOGRAPHIC INFORMATION**

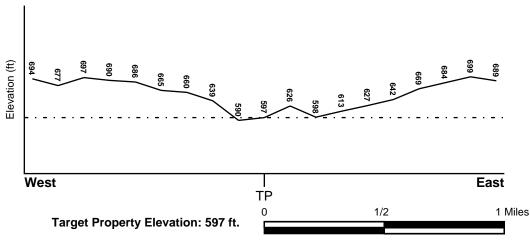
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

#### TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NE

#### SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

#### **HYDROLOGIC INFORMATION**

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

#### **FEMA FLOOD ZONE**

Flood Plain Panel at Target Property FEMA Source Type

3710458700K FEMA FIRM Flood data

Additional Panels in search area: FEMA Source Type

 3710458800J
 FEMA FIRM Flood data

 3710457800J
 FEMA FIRM Flood data

 3710457700J
 FEMA FIRM Flood data

**NATIONAL WETLAND INVENTORY** 

NWI Quad at Target Property Data Coverage

HARRISBURG YES - refer to the Overview Map and Detail Map

#### HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

LOCATION GENERAL DIRECTION
MAP ID FROM TP GROUNDWATER FLOW
Not Reported

# **GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

# GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT**

#### **GEOLOGIC AGE IDENTIFICATION**

Era: Paleozoic Category: Plutonic and Intrusive Rocks

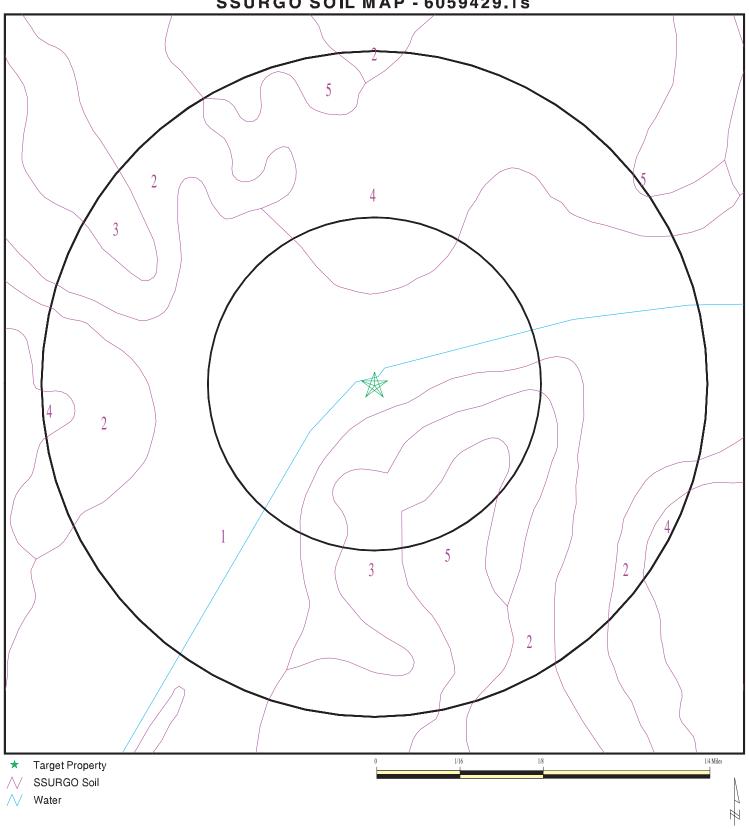
System: Mississippian

Series: Paleozoic mafic intrusives

Code: Pzmi (decoded above as Era, System & Series)

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 6059429.1s



SITE NAME: XCLT Trail-Mallard Creek Church to Pavilion Blvd ADDRESS: 201 E Mallard Creek Church Road Charlotte NC 28262

LAT/LONG: 35.324551 / 80.727886 CLIENT: Wood Envi Wood Environment & Infrastructure Solutions, Inc.

INQUIRY#: 6059429.1s

DATE: May 08, 2020 11:05 am

# DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Monacan

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward

movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 38 inches

	Soil Layer Information						
	Boundary			Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	14 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 5.1
2	14 inches	25 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 5.1
3	64 inches	79 inches	stratified sand to clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 5.1
4	25 inches	64 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 5.1

Soil Map ID: 2

Soil Component Name: Wilkes

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward

> 0 inches

movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Depth to Watertable Min:

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

#### **Soil Layer Information** Saturated **Boundary** Classification hydraulic conductivity Soil Reaction (pH) Soil Texture Class **AASHTO Group Unified Soil** Layer Upper Lower micro m/sec 0 inches 7 inches loam Silt-Clay Not reported Max: Max: Min: Materials (more Min: than 35 pct. passing No. 200), Silty Soils. 2 7 inches 14 inches clay Silt-Clay Not reported Max: Max: Min: Materials (more Min: than 35 pct. passing No. 200), Silty Soils. 3 14 inches 44 inches weathered Silt-Clay Not reported Max: Max: Min: bedrock Materials (more Min: than 35 pct. passing No. 200), Silty Soils. 4 44 inches 48 inches bedrock Silt-Clay Not reported Max: Max: Min: Materials (more Min: than 35 pct. passing No. 200), Silty Soils.

Soil Map ID: 3

Soil Component Name: Wilkes

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward

> 0 inches

movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Depth to Watertable Min:

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

#### **Soil Layer Information** Saturated **Boundary** Classification hydraulic conductivity Soil Reaction (pH) Soil Texture Class **AASHTO Group Unified Soil** Layer Upper Lower micro m/sec 1 0 inches 7 inches loam Silt-Clay Not reported Max: Max: Min: Materials (more Min: than 35 pct. passing No. 200), Silty Soils. 2 7 inches 14 inches clay Silt-Clay Not reported Max: Max: Min: Materials (more Min: than 35 pct. passing No. 200), Silty Soils. 3 14 inches 44 inches weathered Silt-Clay Not reported Max: Max: Min: bedrock Materials (more Min: than 35 pct. passing No. 200), Silty Soils. 4 44 inches 48 inches bedrock Silt-Clay Not reported Max: Max: Min: Materials (more Min: than 35 pct. passing No. 200), Silty Soils.

Soil Map ID: 4

Soil Component Name: Enon

Soil Surface Texture: fine sandy loam

Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures. Hydrologic Group:

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches Depth to Watertable Min: > 0 inches

	Soil Layer Information						
	Boundary			Classification		Saturated hydraulic	
Layer	Upper Lower		Soil Texture Class	AASHTO Group Unified Soil		conductivity micro m/sec	
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 1.4	Max: 7.8 Min: 6.1
2	7 inches	9 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 1.4	Max: 7.8 Min: 6.1
3	9 inches	33 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 1.4	Max: 7.8 Min: 6.1
4	33 inches	72 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 1.4	Max: 7.8 Min: 6.1

Soil Map ID: 5

Soil Component Name: Enon

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward

movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

	Soil Layer Information						
	Bou	ındary		Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	
1	33 inches	72 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 7.8 Min: 5.1
2	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 7.8 Min: 5.1
3	7 inches	9 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 7.8 Min: 5.1
4	9 inches	33 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 7.8 Min: 5.1

# **LOCAL / REGIONAL WATER AGENCY RECORDS**

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

### WELL SEARCH DISTANCE INFORMATION

DATABASE SEARCH DISTANCE (miles)

Federal USGS 1.000

Federal FRDS PWS Nearest PWS within 1 mile

State Database 1.000

### FEDERAL USGS WELL INFORMATION

LOCATION

MAP ID WELL ID FROM TP

No Wells Found

# FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

LOCATION MAP ID WELL ID FROM TP

1 NC0160198 1/2 - 1 Mile NE

Note: PWS System location is not always the same as well location.

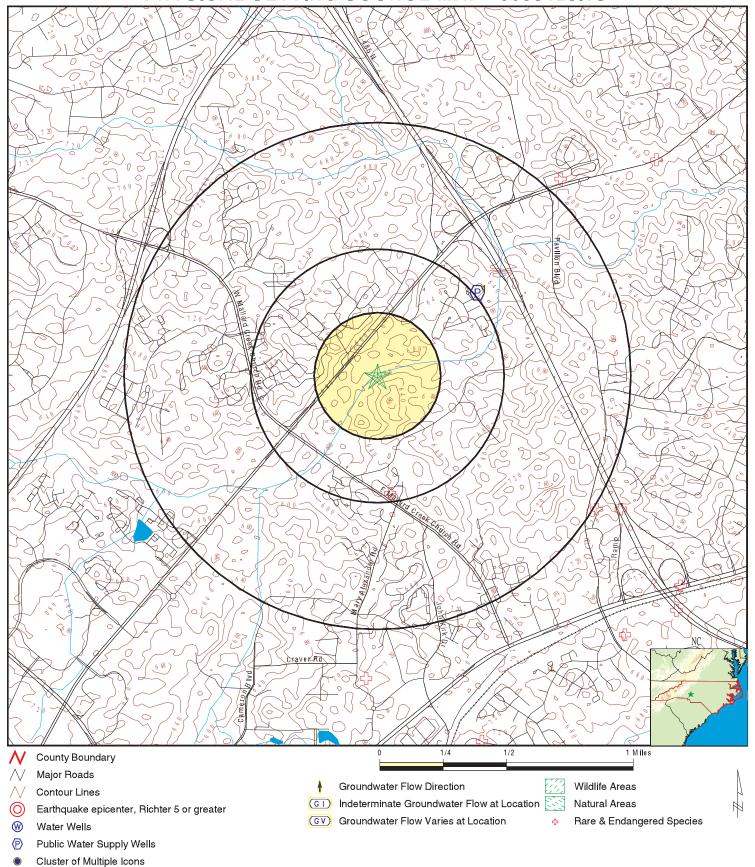
### STATE DATABASE WELL INFORMATION

LOCATION MAP ID WELL ID FROM TP

No Wells Found

# OTHER STATE DATABASE INFORMATION

# PHYSICAL SETTING SOURCE MAP - 6059429.1s



SITE NAME: XCLT Trail-Mallard Creek Church to Pavilion Blvd

ADDRESS: 201 E Mallard Creek Church Road

Charlotte NC 28262 LAT/LONG: 35.324551 / 80.727886 CLIENT: Wood Environment & Infrastructure Solutions, Inc. CONTACT: Matt Miller

INQUIRY #. 6059429.1s

DATE: May 08, 2020 11:05 am

# **GEOCHECK®-PHYSICAL SETTING SOURCE MAP FINDINGS**

Map ID Direction Distance

Elevation Database EDR ID Number

1 NE FRDS PWS NC0160198 1/2 - 1 Mile

Higher

Epa region: 04 State: NC

Pwsid: NC0160198 Pwsname: COUNTRY VILLAGE MHP

Cityserved:Not ReportedStateserved:NCZipserved:Not ReportedFipscounty:37119Status:ClosedRetpopsrvd:600

Pwssvcconn: 200 Psource longname: Groundwater Pwstype: CWS Owner: Private

Contact: DEBRA J STEVENS OR MGR NOW

Contactorgname: Not Reported Contactphone: Not Reported Contactaddress1: Not Reported Contactaddress2: Not Reported

Contactcity: CHARLOTTE Contactstate: NC Contactzip: 28213 Pwsactivitycode: I

PWS ID: NC0160198 PWS type: System Owner/Responsible Party

PWS name: DEBRA J STEVENS OR MGR NOW

PWS address: Not Reported PWS city: CHARLOTTE PWS state: NC PWS zip: 28213

PWS ID: NC0160198 PWS type: System Owner/Responsible Party

PWS name: WHEELINGTOWN ASSOCIATES PWS address: Not Reported

PWS city: CHARLOTTE PWS state: NC

NC0160198 PWS ID: PWS zip: 28213 Activity status: Active Date system activated: 7706 00000600 Date system deactivated: Not Reported Retail population: WHEELINGTON MHP System address: Not Reported System name:

System city: CHARLOTTE System state: NC

System zip: 28213

County FIPS: 060 City served: CHARLOTTE

 Latitude:
 351956
 Longitude:
 0804315

 Latitude:
 351956
 Longitude:
 0804316

 Latitude:
 351945
 Longitude:
 0804316

Latitude: 351945 Longitude: 0804315

Latitude: 351336 Longitude: 0805035

PWS currently has or had major violation(s) or enforcement:Yes

 Violation ID:
 9407020
 Violation source ID:
 Not Reported

 PWS telephone:
 Not Reported
 Contaminant:
 PH

Monitoring, Regular 010191 Violation type: Violation start date: Violation end date: 123193 Violation period (months): 036 Violation awareness date: 060194 Major violator: Yes Number of required samples: Not Reported Maximum contaminant level: 000

Number of samples taken: 000 Analysis method: Not Reported

Analysis result: Not Reported

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID:9407019Violation source ID:Not ReportedPWS telephone:Not ReportedContaminant:THALLIUM, TOTAL

Violation type: Monitoring, Regular Violation start date: 010191

# **GEOCHECK®-PHYSICAL SETTING SOURCE MAP FINDINGS**

Violation end date: 123193 036 Violation period (months): Violation awareness date: 060194 Major violator: Yes Maximum contaminant level: Not Reported Number of required samples: 000 Not Reported Analysis method:

Number of samples taken: 000

Analysis result: Not Reported

PWS currently has or had major violation(s) or enforcement:Yes

Violation source ID: 9407018 Violation ID: Not Reported PWS telephone: Not Reported BERYLLIUM, TOTAL Contaminant:

Violation type: Monitoring, Regular Violation start date: 010191 Violation end date: Violation period (months): 036 123193 Violation awareness date: 060194 Major violator: Yes Maximum contaminant level: Not Reported Number of required samples: 000 Number of samples taken: 000 Analysis method: Not Reported

Analysis result: Not Reported

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID: 9407017 Violation source ID: Not Reported PWS telephone: ANTIMONY, TOTAL Not Reported Contaminant:

Analysis method:

Number of required samples:

Analysis method:

Violation type: Monitoring, Regular Violation start date: 010191 Violation end date: 123193 Violation period (months): 036 Violation awareness date: 060194 Major violator: Yes Maximum contaminant level: Number of required samples: 000 Not Reported

Number of samples taken:

Analysis result: Not Reported

PWS currently has or had major violation(s) or enforcement:Yes

9407016 Violation source ID: Not Reported Violation ID: PWS telephone: Not Reported Contaminant: **SULFATE** 010191 Violation type: Monitoring, Regular Violation start date: Violation end date: 036 123193 Violation period (months): Violation awareness date: 060194 Major violator: Yes

Maximum contaminant level: Not Reported Number of required samples: 000 Not Reported

Number of samples taken: 000 Analysis method:

Not Reported

Not Reported

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID: 9407015 Violation source ID: Not Reported PWS telephone: SODIUM Not Reported Contaminant: Violation type: Monitoring, Regular Violation start date: 010191 Violation end date: 123193 Violation period (months): 036 Violation awareness date: 060194 Major violator: Yes Maximum contaminant level:

Number of samples taken: 000

Analysis result:

Not Reported Analysis result:

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID: 9407014 Violation source ID: Not Reported **SELENIUM** PWS telephone: Not Reported Contaminant: Violation type: Monitoring, Regular Violation start date: 010191 Violation end date: 123193 Violation period (months): 036 060194 Violation awareness date: Major violator: Yes

Maximum contaminant level: Not Reported Number of required samples: 000 Analysis method: Not Reported

Number of samples taken:

Analysis result: Not Reported

PWS currently has or had major violation(s) or enforcement:Yes

000

Not Reported

Not Reported

### GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Number of required samples:

Analysis method:

Analysis method:

Analysis method:

Analysis method:

Analysis method:

000

Not Reported

Not Reported

Not Reported

Not Reported

Not Reported

Violation ID: 9407013 Violation source ID: Not Reported PWS telephone: Not Reported Contaminant: **NICKEL** Violation type: Monitoring, Regular Violation start date: 010191 Violation end date: 123193 Violation period (months): 036 Violation awareness date: 060194 Major violator: Yes

Maximum contaminant level: Not Reported Number of samples taken: 000

Analysis result: Not Reported

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID: 9407012 Violation source ID: Not Reported PWS telephone: Not Reported Contaminant: **MERCURY** Violation type: Monitoring, Regular Violation start date: 010191 036 Violation end date: 123193 Violation period (months): Violation awareness date: 060194 Major violator: Yes Maximum contaminant level: Not Reported Number of required samples: 000

Number of samples taken: 000

Analysis result: Not Reported

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID: 9407011 Violation source ID: Not Reported PWS telephone: Not Reported Contaminant: **MANGANESE** Monitoring, Regular Violation start date: Violation type: 010191 Violation end date: 123193 Violation period (months): 036 Violation awareness date: 060194 Major violator: Yes Number of required samples: Maximum contaminant level: Not Reported 000

Number of samples taken: റററ

Analysis result: Not Reported

PWS currently has or had major violation(s) or enforcement:Yes

9407010 Violation source ID: Not Reported Violation ID: PWS telephone: Not Reported Contaminant: **IRON** Violation type: Monitoring, Regular Violation start date: 010191 Violation end date: 123193 Violation period (months): 036 Violation awareness date: 060194 Major violator: Yes Maximum contaminant level: Not Reported Number of required samples: 000

Number of samples taken: 000

Analysis result: Not Reported

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID: 9407009 Violation source ID: Not Reported PWS telephone: Not Reported Contaminant: **FLUORIDE** Violation type: Monitoring, Regular Violation start date: 010191 036 Violation end date: 123193 Violation period (months): Violation awareness date: 060194 Major violator: Yes Number of required samples: 000

Maximum contaminant level: Not Reported

Number of samples taken: 000 Analysis result: Not Reported

PWS currently has or had major violation(s) or enforcement:Yes

Violation source ID: Violation ID: 9407008 Not Reported **CYANIDE** PWS telephone: Not Reported Contaminant: Violation type: Monitoring, Regular Violation start date: 010191 Violation end date: 123193 Violation period (months): 036 Violation awareness date: 060194 Major violator: Yes

Number of required samples: Maximum contaminant level: Not Reported 000

Number of samples taken: 000 Analysis method: Not Reported

# **GEOCHECK®-PHYSICAL SETTING SOURCE MAP FINDINGS**

Not Reported Analysis result:

PWS currently has or had major violation(s) or enforcement:Yes

9407007 Violation ID: Violation source ID: Not Reported PWS telephone: Not Reported Contaminant: **CHROMIUM** Violation type: Monitoring, Regular Violation start date: 010191 Violation end date: 123193 Violation period (months): 036 Violation awareness date: 060194 Yes Major violator:

Not Reported Number of required samples: 000 Maximum contaminant level: Analysis method: Not Reported

Number of samples taken: 000 Not Reported Analysis result:

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID: 9407006 Violation source ID: Not Reported PWS telephone: Not Reported Contaminant: **CADMIUM** Violation type: 010191 Monitoring, Regular Violation start date: Violation end date: 123193 Violation period (months): 036 Violation awareness date: 060194 Major violator: Yes

Number of required samples: Maximum contaminant level: Not Reported 000 Not Reported

Number of samples taken: 000 Analysis method: Analysis result: Not Reported

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID: 9407005 Violation source ID: Not Reported PWS telephone: Not Reported **BARIUM** Contaminant: Violation type: Monitoring, Regular Violation start date: 010191 Violation end date: 123193 Violation period (months): 036 060194 Major violator: Violation awareness date: Yes

Maximum contaminant level: Not Reported Number of required samples: 000

000 Analysis method: Not Reported Number of samples taken:

Not Reported Analysis result:

PWS currently has or had major violation(s) or enforcement:Yes

9407004 Violation ID: Violation source ID: Not Reported PWS telephone: Not Reported Contaminant: **ARSENIC** Monitoring, Regular Violation type: Violation start date: 010191 Violation end date: 123193 Violation period (months): 036 Violation awareness date: 060194 Major violator: Yes

Number of required samples: Maximum contaminant level: Not Reported 000

Number of samples taken: 000 Analysis method: Not Reported Not Reported Analysis result:

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID: 9407003 Violation source ID: Not Reported PWS telephone: Not Reported Contaminant: **NITRATE** Monitoring, Regular Violation type: Violation start date: 010193 012 Violation end date: 123193 Violation period (months):

Violation awareness date: 060194 Major violator: Yes Number of required samples: Maximum contaminant level: Not Reported 000

Number of samples taken: Analysis method: Not Reported

PWS currently has or had major violation(s) or enforcement:Yes

Not Reported

Analysis result:

Violation ID: 9403345 Violation source ID: 000

COLIFORM (TCR) PWS telephone: Not Reported Contaminant:

Violation type: Monitoring, Routine Major (TCR)

### GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

040194 043094 Violation start date: Violation end date: Violation period (months): 001 Violation awareness date: 051794 Major violator: Maximum contaminant level: Not Reported Yes Number of required samples: Not Reported Number of samples taken: Not Reported Analysis method: Not Reported Analysis result: Not Reported

PWS currently has or had major violation(s) or enforcement:Yes

9403344 Violation source ID: 000 Violation ID:

PWS telephone: Not Reported COLIFORM (TCR) Contaminant:

Violation type: Monitoring, Routine Major (TCR)

Violation end date: 053194 Violation start date: Violation period (months): 001 Violation awareness date: 061694 Major violator: Maximum contaminant level: Not Reported Yes Number of required samples: Not Reported Number of samples taken: Not Reported Analysis method: Not Reported Analysis result: Not Reported

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID: 9413081 Violation source ID: Not Reported

PWS telephone: LEAD & COPPER RULE Not Reported Contaminant:

Violation type: Initial Tap Sampling for Pb and Cu

Violation start date: 070193 Violation end date: 123193 Violation period (months): 006 Violation awareness date: Not Reported Maximum contaminant level: Major violator: Not Reported Not Reported

Number of required samples: Not Reported Number of samples taken: Not Reported Analysis method: Not Reported Analysis result: Not Reported

PWS currently has or had major violation(s) or enforcement:Yes

9400320 Violation source ID: Violation ID: 000

COLIFORM (TCR) PWS telephone: Not Reported Contaminant:

Monitoring, Routine Major (TCR) Violation type: Violation start date: 120193 Violation end date: 123193 Violation period (months): 001 Violation awareness date: 011894

Major violator: Maximum contaminant level: Not Reported Yes Number of required samples: Not Reported Number of samples taken: Not Reported Analysis method: Not Reported Analysis result: Not Reported

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID: 9400921 000 Violation source ID:

PWS telephone: COLIFORM (TCR) Not Reported Contaminant:

Violation type: Monitoring, Routine Major (TCR)

030194 Violation end date: 033194 Violation start date: Violation period (months): 001 Violation awareness date: 041694 Major violator: Maximum contaminant level: Not Reported Yes Not Reported Number of required samples: Not Reported Number of samples taken: Analysis method: Not Reported Analysis result: Not Reported

PWS currently has or had major violation(s) or enforcement. Yes

Violation ID: 9400922 Violation source ID:

COLIFORM (TCR) PWS telephone: Not Reported Contaminant:

Violation type: Monitoring, Routine Major (TCR) 020194

Violation start date: Violation end date: 022894 Violation period (months): 001 Violation awareness date: 031694 Major violator: Maximum contaminant level: Not Reported Yes Number of required samples: Not Reported Number of samples taken: Not Reported

Analysis method: Not Reported Analysis result: Not Reported

PWS currently has or had major violation(s) or enforcement:Yes

# **GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS**

Violation ID: 9400923 PWS telephone: Not Reported

Visitation type:

Violation type: Monitoring, Routine Major (TCR)

Violation start date: 010194 Violation period (months): 001 Major violator: Yes

Number of required samples: Not Reported Analysis method: Not Reported

Violation source ID: 000

Contaminant: COLIFORM (TCR)

Violation end date: 013194
Violation awareness date: 021594
Maximum contaminant level: Not Reported
Number of samples taken: Not Reported
Analysis result: Not Reported

# **GEOCHECK®-PHYSICAL SETTING SOURCE MAP FINDINGS**

Map ID Direction Distance			Database	EDR ID Number
Elclass: Eostat: Edr id:	P X NC50001879	Precision1: Gisid:	<b>NC_NHEO</b> M 62254	NC50001879
Elclass: Eostat: Edr id:	P E NC50002374	Precision1: Gisid:	NC_NHEO S 353259	NC50002374
Elclass: Eostat: Edr id:	P H NC50003872	Precision1: Gisid:	<b>NC_NHEO</b> M 62278	NC50003872
Elclass: Eostat: Edr id:	P E NC50004098	Precision1: Gisid:	NC_NHEO S 492278	NC50004098
Elclass: Eostat: Edr id:	P H NC50005917	Precision1: Gisid:	<b>NC_NHEO</b> M 82215	NC50005917
Elclass: Eostat: Edr id:	P H NC50007591	Precision1: Gisid:	NC_NHEO S 122505	NC50007591
Elclass: Eostat: Edr id:	C E NC50008430	Precision1: Gisid:	NC_NHEO S 171127	NC50008430

# **GEOCHECK®-PHYSICAL SETTING SOURCE MAP FINDINGS**

Map ID Direction Distance			Database	EDR ID Number
Elclass: Eostat: Edr id:	P X NC50009085	Precision1: Gisid:	<b>NC_NHEO</b> M 22840	NC50009085
Elclass: Eostat: Edr id:	P E NC50011222	Precision1: Gisid:	NC_NHEO S 12544	NC50011222
Elclass: Eostat: Edr id:	P X NC50011607	Precision1: Gisid:	<b>NC_NHEO</b> M 52254	NC50011607
Elclass: Eostat: Edr id:	P X NC50013971	Precision1: Gisid:	NC_NHEO S 61845	NC50013971
Elclass: Eostat: Edr id:	P H NC50014884	Precision1: Gisid:	<b>NC_NHEO</b> M 72215	NC50014884
Elclass: Eostat: Edr id:	P X NC50018615	Precision1: Gisid:	<b>NC_NHEO</b> M 72160	NC50018615

# GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS RADON

# AREA RADON INFORMATION

State Database: NC Radon

Radon Test Results

Num Results	Avg pCi/L	Min pCi/L	Max pCi/L
1	0.90	0.9	0.9

Federal EPA Radon Zone for MECKLENBURG County: 3

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for MECKLENBURG COUNTY, NC

Number of sites tested: 46

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor Living Area - 2nd Floor	0.569 pCi/L 0.900 pCi/L	100% 100%	0% 0%	0% 0%
Basement	1.278 pCi/L	100%	0%	0%

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### **TOPOGRAPHIC INFORMATION**

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map Source: U.S. Geological Survey

#### HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory Source: US Fish & Wildlife Service

Telephone: 703-358-2171

#### HYDROGEOLOGIC INFORMATION

AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

#### **GEOLOGIC INFORMATION**

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

North Carolina Public Water Supply Wells Source: Department of Environmental Health

Telephone: 919-715-3243

#### OTHER STATE DATABASE INFORMATION

North Carolina Wildlife Resources/Game Lands

Source: Center for Geographic Information and Analysis

Telephone: 919-733-2090

All publicly owned game lands managed by the North Carolina Wildlife Resources Commission and as listed in Hunting and Fishing Maps.

NC Natural Heritage Sites: Natural Heritage Element Occurrence Sites

Source: Natural Heritage Occurrence Sites Center for Geographic Information and Analysis

Telephone: 919-733-2090

A point coverage identifying locations of rare and endangered species, occurrences of exemplary or unique natural ecosystems (terrestrial or aquatic), and special animal habitats (e.g., colonial waterbird nesting sites).

NC Natural Areas: Significant Natural Heritage Areas

Source: Center for Geographic Information and Analysis

Telephone: 919-733-2090

A polygon converage identifying sites (terrestrial or aquatic) that have particular biodiversity significance.

A site's significance may be due to the presenceof rare species, rare or high quality natural communities, or other important ecological features.

#### **RADON**

State Database: NC Radon

Source: Department of Environment & Natural Resources

Telephone: 919-733-4984

Radon Statistical and Non Statiscal Data

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency

(USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at

private sources such as universities and research institutions.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor

radon levels.

# OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

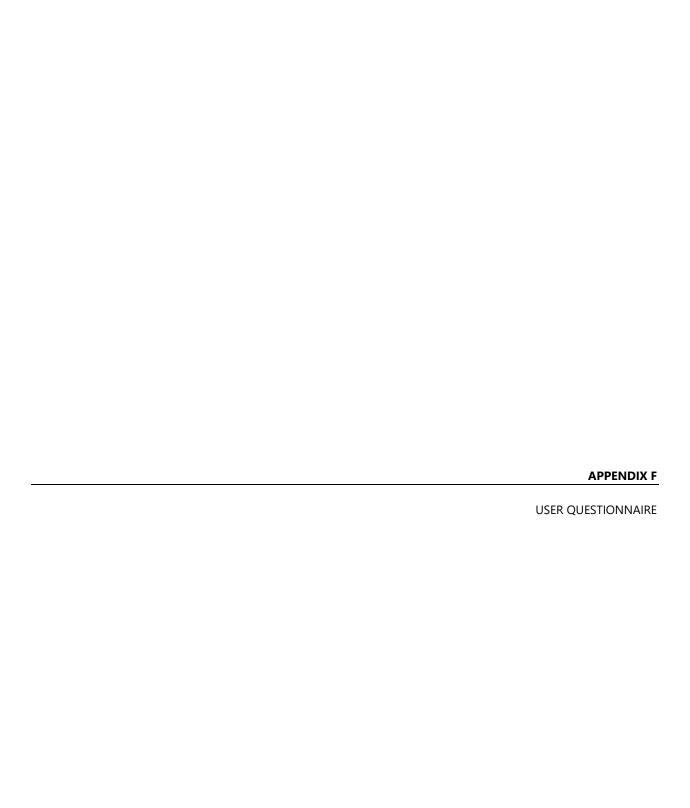
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared

in 1975 by the United State Geological Survey

# STREET AND ADDRESS INFORMATION

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# PHASE I ENVIRONMENTAL SITE ASSESSMENT USER QUESTIONNAIRE

Wood Environment & Infrastructure Solutions, Inc. 2801 Yorkmont Road, Suite 100 Charlotte, North Carolina 28208 Phone: (704) 357-8600 Fax: (704) 357-8638

#### Introduction:

In order to comply with ASTM E 1527-13 and with the Standard for All Appropriate Inquires issued by the United States Environmental Protection Agency as set forth in the 40 CFR 312, the user, who is defined below, must provide the information that is requested below to the Wood Environmental Professional. If the user fails to provide this information, a court could determine that the All Appropriate Inquiry was not complete.

User is defined as the party seeking to use ASTM E 1527-13 to complete an environmental site assessment of the property. A user may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager. The user has specific obligations as outlined in Section 6 of ASTM E 1527-13. The User will normally be Wood's Client.

The User can obtain a copy of ASTM E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process at the ASTM web site http://www.astm.org.

In any case where the questionnaire requests an explanation or the User believes that additional information is appropriate, please provide all relevant information on an attached sheet and identify the question to which the information pertains.

### **Site Information:**

XCLT Trail E. Mallard Creek Church Rd to Pavilion Blvd Charlotte, North Carolina

- 2. Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (See, 40 CFR 312.26)

Liability Protections (See, 40 CFR 312.28)  As the user of this Phase I, do you have any specialized knowledge or experience related to the property or nearby properties?yes or
Are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by that type of business?yes or
Relationship of the purchase price to the fair market value of the property if it were not contaminated (See, 40 CFR 312.29)  Does the purchase price being paid for this property reasonably reflect the fair market value of the property?yes orno If you answer the preceding question other than yes, please answe the following question.  **Without**
If you concluded that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?yes orno I yes, please explain.
Commonly known or reasonably ascertainable information about the property (See, 40 CFR 312.30)  Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of a release of threatened release?yes or
<ul> <li>Do you know the past uses of the property?yes or _eno If yes, please explain.</li> </ul>
<ul> <li>Do you know of specific chemicals that are present or once were present at the property?</li> <li>yes orno If yes, please explain.</li> </ul>
<ul> <li>Do you know of spills or other chemical releases that have taken place at the property?</li> <li>yes or place of spills or other chemical releases that have taken place at the property?</li> </ul>
<ul> <li>Do you know of any environmental cleanups that have taken place at the property?</li> <li>yes or</li></ul>

6.	The degree of obviousness of the presence or likely presence of contamination at the
	property, and the ability to detect the contamination by appropriate investigation (See, 40
	CFR 312.31)

As the user of this Phase I, based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property? \_\_\_\_yes or \_\_\_\_no If yes, please explain.

Printed Name / Title

Gueling 1

Games / Date

(Please Circle One)

Property Owner; Former Property Owner; Potential Buyer of Property Real Estate Agent; Other

(if other, please explain)





# Matthew Todd Miller

Senior Environmental Scientist



# **Current projects**

- Environmental Due Diligence, Charlotte, NC
- United States Department of Housing and Urban Development (HUD) Environmental Reviews & Assessments, Charlotte, NC
- Telecommunication Tower Sites Environmental Assessments, Various NC locations

### Core skills

Phase I Environmental Assessments, Phase II Environmental Assessments, NEPA Compliance, Federal Housing compliance assessments

# **Professional summary**

A Project Environmental Scientist, Mr. Miller has over eighteen years of experience conducting Environmental Due Diligence. His primary responsibilities as a scientist at Wood include performing Phase I Environmental Site Assessments (ESAs) for brownfields, greenfields, contaminated properties, telecommunication towers, commercial, residential and industrial sites; conducting groundwater and soil sampling events; and conducting regulatory file reviews at State agency offices. Additional responsibilities have included performing Environmental Assessments (EAs) for Federal projects; radon and lead-in-drinking water tests; NEPA compliance requirements for raw land and collocation telecommunication tower sites and roadway improvements; and assisting golf course maintenance personnel in compliance for fuel storage, pesticide and fertilizer storage, wash down areas and proper disposal of petroleum products. Mr. Miller has completed assessments for municipalities, Federal entities, utilities, State government agencies, real estate developers, public school systems, property owners, real estate brokers, attorneys, industrial manufacturers, lending institutions, and insurance companies.

Mr. Miller has conducted the majority of his field work in North Carolina and South Carolina and has also completed field work and assessments in Arkansas, Delaware, Georgia, Kentucky, Maine, Maryland, Mississippi, New Jersey, Ohio, Oregon, Pennsylvania, Tennessee, Virginia, and West Virginia.

# Education

Bachelor of Science, Environmental Science, Catawba College, 1999

### Languages

English

### Employment history

Wood, Senior Scientist, March 2005 – Present EnviroAssessments PLLC, Staff Scientist, Jan 2004 to February 2005 ATC Associates, Inc., Staff Scientist, May 2002- Jan 2004 LAW Engineering & Consulting, Inc., Staff Scientist, February 2000-May 2002

# Representative projects

# <u>Master Services Agreement Due Diligence for Telecommunication Sites, Verizon Carolinas, Various Locations in NC, SC</u>

Project Scientist: Environmental and NEPA compliance consulting services under a Master Services Agreement, including Phase I and II site assessments, visual site inspections, NEPA threshold screening, and wetlands determinations. Categories of telecommunications sites to be inspected include towers ranging 125 to 400 feet high, and existing towers and facility sites where new antennae and equipment pads will be installed. Mr. Miller was responsible for completing preliminary site assessments for co-locations and new equipment builds in North Carolina and South Carolina.

# Nationwide Real Estate Portfolio Phase I Environmental Site Assessments 1993-2014, D.R. Horton, Nationwide Locations

Project Scientist: Phase I Environmental Site Assessments for a national builder of custom-built homes, numbering over 100 tracts of land typically ranging from small tracts to several thousand acres, including performing Phase II ESAs. Responsible for field investigations and deliverables as well as Phase II investigations and oversight. Coordinated and performed Phase I Environmental Site Assessments at over 300 sites in North Carolina, South Carolina, Virginia and Maryland for DR Horton purchases. These mostly included developed residential subdivisions, former golf courses, farmland, and wooded areas. Some sites included testing for pesticides (former golf courses) reviewing files/ conversing with regulators from NCDENR and SCDHEC and formulating opinions related to the sites regarding nearby contaminated properties.

# <u>Environmental Services Agreement for North Carolina, South Carolina, BellSouth Affiliate Services Corporation, Various Locations in NC, SC.</u>

Project Scientist: Phase I environmental site assessments, asbestos and indoor air quality (IAQ) services, and Phase II assessments, including tank closures and limited site assessments CLSA, for service operation centers, vehicle refueling facilities, central office locations and other existing and potential BellSouth properties in two states. Responsible for completing monthly and semi-annual reports for O&M of Gastonia and Lincolnton Sites.

# <u>Due Diligence Services, Phase I Environmental Site Assessments, Family Dollar Stores, Inc., Nationwide</u>

Wood has supported Family Dollar in its retail expansion efforts, performing due diligence services for more than 230 existing and potential store locations in 29 states. Types of assessed properties have ranged from undeveloped land to existing retail stores. Phase I ESAs included assessment of previous land use practices for recognized environmental conditions, evaluation of potential environmental risks associated with current land use practices, and adjacent land use practices. Responsible for conducting Phase I ESAs and Limited Phase II investigations for several sites in North and South Carolina.

# <u>ColumbusNova Commercial Real Estate Four Building Sites Property Condition Assessments, Phase I Environmental Site Assessments, Four Building Sites Nationwide</u>

Staff Scientist: Property condition assessments and Phase I environmental site assessments for four office / industrial buildings located in Avon, Connecticut; Pineville, North Carolina; Reno, Nevada; and Arlington, Texas, with the oldest structures built in the early 1960s, ranging in size from 78,400 SF to 196,000 SF, and covering from 7 to 14 acres each. Responsible for conducting Phase I ESA of an approximate 1 million sq ft. furniture manufacturing facility in Pontotoc, Mississippi, and facilities in Canton, GA and Avon, OH.

Manchester Meadows Soccer Complex Geotechnical, Environmental, Wetlands Services, Rock Hill, SC Staff Scientist: Environmental services for wetland delineation, Section 404 / 401 permitting activities, mitigation plan preparation, lake and dam design / modeling, and other geotechnical and environmental services related to development of a 42-acre regional park, roadway, and soccer complex. Responsible for completing Categorical Exclusion B Criteria Report for roadway re-alignment.

# Storage Unit Sites Phase I Environmental Site Assessments, Morningstar Properties, LLC, Charlotte and Other Cities, Mid-Atlantic States

Staff Scientist: Phase I environmental site assessments for variety of storage unit properties, including multiple-building sites, greenfield properties and marina locations with dry-dock facilities, fueling areas and boat slips. Most sites 10 acres or less. Responsible for completing Phase I ESAs for several marinas in North Carolina, South Carolina and Georgia.

# <u>Brownfield Redevelopment Sites Environmental Investigations, Western Piedmont Council of Governments, Hickory and Surrounding Cities, NC</u>

Staff Scientist: Environmental investigations at brownfield redevelopment sites in four-county area of WPCOG's jurisdiction. Services included brownfield inventory, Phase I environmental site assessments, preparation of Phase II documents and implementation of Phase II ESA, preparations of Correction Action Plans, project management and community outreach and education. Work conducted U.S. EPA Brownfield Assessment Grant project. Responsible for conducting Phase I ESAs for WPCOG-certified brownfield sites throughout the Western NC and Piedmont regions.

# <u>City of Charlotte Housing & Neighborhood Services / U.S. Department of Housing and Urban Development NEPA Environmental Services, Charlotte, North Carolina</u>

Senior Scientist: Evaluation of environmental concerns to determine whether potential adverse environmental impacts result from proposed rehabilitation / replacement of housing projects, and how to avoid or lessen impact. Environmental compliance assessments include literature reviews, onsite reconnaissance and interviews. Review levels determined for NEPA compliance. Issues addressed include land development, noise abatement, air quality, floodplain management, historic resources, community facilities and natural features.

<u>CSXT/2015& 2016 Lease Review Program, CSX Transportation, Inc., Jacksonville, FL, United States</u>
Senior Scientist: Conducted Lease Environmental Reviews (LERs) for properties within railroad right-of-way to determine whether potential adverse environmental impacts result from property uses. The LERs were conducted in North Carolina, Georgia, South Carolina, Delaware, Pennsylvania and New Jersey.

