

**Cullowhee Clean Air  
(WheeCAIR)  
Field Deployment Sheet**

**Research Team & Sensor Information**

Deployment Date: 10/21/19 Start Time: 2:27

Name(s): \_\_\_\_\_

Sensor Initials: CBEDAL Sensor Build Date & Version: 2019-10-09, v1.0

**Site Information**

Coordinates: 1253120683940 Coordinate System: UTM  
167 Reference Datum: \_\_\_\_\_

Specific site description (provide enough detail for someone else to find your sensor): 3 trees together  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Other notes (list things about the site that you think may influence your sensor's data): down  
ways from 2 other sensors, to the left  
of shed  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Field Deployment Sheet  
(WheeCAIR)  
Cullowhee Clean Air

Research Team & Sensor Information

Deployment Date: 2019-10-14 Start Time: 11:49

Name(s): AI Hsler

Sensor Initials: AFAF

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Coordinates: 17S 301768 3909890 Coordinate System: UTM

Reference Datum: WGS84

Specific site description (provide enough detail for someone else to find your sensor):

Building (inside brick enclosure, on right side when facing Shillie). HVAC system between North and South Building and Shillie. Sensor is located under PMS pump, near the building.

Other notes (list things about the site you think may influence your sensor's data):

Airflow around several metal structures from active construction and a large industrial organization could affect sensor data.

## Sensor Deployment Instructions

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- You may secure your sensor to trees or fence posts around the Purchase area, including along the Cataloochee divide trail.
- Your sensor **CANNOT** be visible from a trail or walkway.
- You may **NOT** attach your sensor to any historic structures, artifacts, etc.
- Your sensor **CANNOT** interfere with the operation of the NCDEQ Air Quality instruments or the weather station at the site.
- At least two sensors should be installed in a location near the air quality shed/weather station.
- If possible, you should co-locate your sensor with another for comparison.
- Install your sensor with the partially covered opening (“rear opening”) at the top and the full opening at the bottom (“bottom opening”); this ensures rain won’t get into the sensors.
- Similarly, install your sensor angled *slightly* toward the rear opening to that rain is less likely to drip into the sensor.
- If possible, find a location that won’t be disturbed by wildlife.
- Complete the Sensor Installation Checklist and Field Deployment Sheet (attached).

## Sensor Installation Checklist

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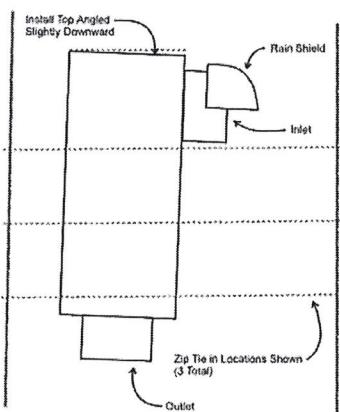
- |                          |  |
|--------------------------|--|
| <input type="checkbox"/> | 1 SD card installed  |
| <input type="checkbox"/> | 2 All wires/sensors connected correctly (check for broken wires)   |
| <input type="checkbox"/> | 3 PM sensor positioned correctly   |
| <input type="checkbox"/> | 4 Batteries connected (black to -, red to +)   |
| <input type="checkbox"/> | 5 Black reset button on PCB pressed  |
| <input type="checkbox"/> | 6 Boot sequence correct: 10 s pause, 5 short blinks (orange light), 5 s pause, 2 long blinks (orange light)*** |
| <input type="checkbox"/> | 7 Case lid installed <b>tightly</b> (black seal should compress to keep out water).                            |
| <input type="checkbox"/> | 8 Sensor securely fastened to tree.  |
| <input type="checkbox"/> | 9 Sensor field deployment sheet (on back) filled in completely, including location.                            |
| <input type="checkbox"/> | 10 Photo of installed sensor/site sent to <a href="mailto:dfischer@wcu.edu">dfischer@wcu.edu</a> .             |

\*\*\*Any other blink sequence indicates an error and you **MUST** troubleshoot and fix the issue before continuing!!

## Sensor Installation Specification

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SIDE VIEW





**Cullowhee Clean Air  
(WheeCAIR)  
Field Deployment Sheet**

**Research Team & Sensor Information**

Deployment Date: October 21 2019 Start Time: 2:28 pm

Name(s): \_\_\_\_\_

Sensor Initials: PR & MD Sensor Build Date & Version: 2019-10-09, v1.0

**Site Information**

Coordinates: 35°35'15.8"N 83°04'20.7"W Coordinate System: \_\_\_\_\_

Reference Datum: \_\_\_\_\_

Specific site description (provide enough detail for someone else to find your sensor): \_\_\_\_\_

a tree in the middle going left from  
the brown house that holds big data,  
down the hill to the left.

Other notes (list things about the site that you think may influence your sensor's data): \_\_\_\_\_

middle of a tree surrounded by trees  
has Lichen near it.

**Field Deployment Sheet  
(WheeCAIR)**

**Research Team & Sensor Information**

Deployment Date: 2019-10-14 Start Time: 11:49

Name(s): Al Fischer

Sensor Initials: AFAF

Start

Date

Version

Build

System

Coordinates: 175 301768 3909890 Coordinate System: UTM

Reference Datum: WGS84

Specific site description (provide enough detail for someone else to find your sensor):

Site description: Located under the PM<sub>10</sub> bumpers, near the building HVAC system between North and South Building and between the building and the parking lot. Inside brick enclosure, on right side when facing Shillwell.

Other notes (list things about the site you think may influence your sensor's data):  
Notes: Located several meters from active construction activity. Ammonium in located several meters from an industrial facility. Actual smoggy conditions.

## Sensor Deployment Instructions

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- You may secure your sensor to trees or fence posts around the Purchase area, including along the Cataloochee divide trail.
- Your sensor **CANNOT** be visible from a trail or walkway.
- You may **NOT** attach your sensor to any historic structures, artifacts, etc.
- Your sensor **CANNOT** interfere with the operation of the NCDEQ Air Quality instruments or the weather station at the site.
- At least two sensors should be installed in a location near the air quality shed/weather station.
- If possible, you should co-locate your sensor with another for comparison.
- Install your sensor with the partially covered opening (“rear opening”) at the top and the full opening at the bottom (“bottom opening”); this ensures rain won’t get into the sensors.
- Similarly, install your sensor angled *slightly* toward the rear opening to that rain is less likely to drip into the sensor.
- If possible, find a location that won’t be disturbed by wildlife.
- Complete the Sensor Installation Checklist and Field Deployment Sheet (attached).

## Sensor Installation Checklist

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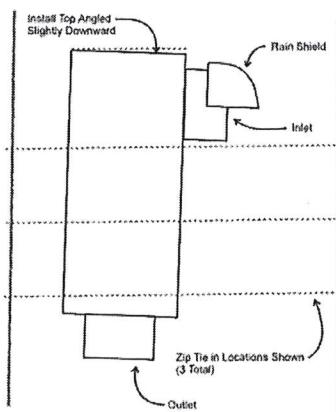
- |                          |  |
|--------------------------|--|
| <input type="checkbox"/> | 1 SD card installed  |
| <input type="checkbox"/> | 2 All wires/sensors connected correctly (check for broken wires)   |
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| <input type="checkbox"/> | 9 Sensor field deployment sheet (on back) filled in completely, including location.                            |
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## Sensor Installation Specification

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SIDE VIEW





**Cullowhee Clean Air  
(WheeCAIR)  
Field Deployment Sheet**

**Research Team & Sensor Information**

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Deployment Date: October 21, 2019 Start Time: 2:28 pm

Name(s): DuJ...:

Sensor Initials: AH RR Sensor Build Date & Version: 2019-10-09, v1.0

**Site Information**

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Coordinates: 38°35'15.8"N 83°04'21.7"W Coordinate System: Google maps

Reference Datum: \_\_\_\_\_

Specific site description (provide enough detail for someone else to find your sensor): \_\_\_\_\_

To the left of the national parks sensor system. Go down the hill where there is an open area up right, and it is on the branch of the tree

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Other notes (list things about the site that you think may influence your sensor's data): In a open area a lot of trees surrounding our sensor. in the middle of the hill. Near a deer trail

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**Cullowhee Clean Air  
(WheeCAIR)  
Field Deployment Sheet**

Research Team & Sensor Information

Deployment Date: 2019-10-14 Start Time: 11:49

Name(s): Al Fischer

Sensor Initials: AFG Sensor Build Date & Version: 2019-10-09, v1.0

Site Information  
Coordinates: 175 301768 3909890 Coordinate System: UTM Reference Datum: WGS84

Specific Site Description (provide enough detail for someone else to find your sensor):  
Sensor is located under the PM<sub>10</sub> sampler, near the building HVAC system between Northend Building and Shillwell Building (inside brick enclosure, on right side when facing Shillwell).

Other Notes (list things about the site you think may influence your sensor's data):  
There is a located several nests from ashwain chain after dinner in late at night.

## Sensor Deployment Instructions

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- You may secure your sensor to trees or fence posts around the Purchase area, including along the Cataloochee divide trail.
- Your sensor **CANNOT** be visible from a trail or walkway.
- You may **NOT** attach your sensor to any historic structures, artifacts, etc.
- Your sensor **CANNOT** interfere with the operation of the NCDEQ Air Quality instruments or the weather station at the site.
- At least two sensors should be installed in a location near the air quality shed/weather station.
- If possible, you should co-locate your sensor with another for comparison.
- Install your sensor with the partially covered opening (“rear opening”) at the top and the full opening at the bottom (“bottom opening”); this ensures rain won’t get into the sensors.
- Similarly, install your sensor angled *slightly* toward the rear opening to that rain is less likely to drip into the sensor.
- If possible, find a location that won’t be disturbed by wildlife.
- Complete the Sensor Installation Checklist and Field Deployment Sheet (attached).

## Sensor Installation Checklist

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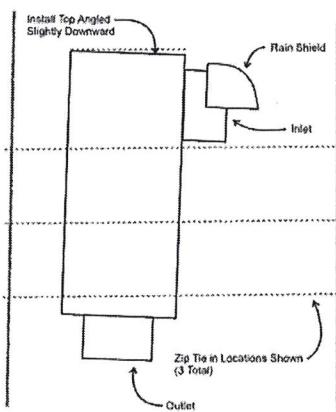
- |                          |  |
|--------------------------|--|
| <input type="checkbox"/> | 1 SD card installed  |
| <input type="checkbox"/> | 2 All wires/sensors connected correctly (check for broken wires)   |
| <input type="checkbox"/> | 3 PM sensor positioned correctly   |
| <input type="checkbox"/> | 4 Batteries connected (black to -, red to +)   |
| <input type="checkbox"/> | 5 Black reset button on PCB pressed  |
| <input type="checkbox"/> | 6 Boot sequence correct: 10 s pause, 5 short blinks (orange light), 5 s pause, 2 long blinks (orange light)*** |
| <input type="checkbox"/> | 7 Case lid installed <b>tightly</b> (black seal should compress to keep out water).                            |
| <input type="checkbox"/> | 8 Sensor securely fastened to tree.  |
| <input type="checkbox"/> | 9 Sensor field deployment sheet (on back) filled in completely, including location.                            |
| <input type="checkbox"/> | 10 Photo of installed sensor/site sent to <a href="mailto:dfischer@wcu.edu">dfischer@wcu.edu</a> .             |

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## Sensor Installation Specification

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SIDE VIEW





Cullowhee Clean Air  
(WheeCAIR)  
Field Deployment Sheet

Research Team & Sensor Information

Deployment Date: 10/21/19 Start Time: 2:32 PM

Name(s): \_\_\_\_\_

Sensor Initials: APBW Sensor Build Date & Version: 2019-10-09, v1.0

Site Information

Coordinates: LAT: 35.5870 LONG: -83.0745 Coordinate System: MAPS APP (APP10)

Reference Datum: \_\_\_\_\_

Specific site description (provide enough detail for someone else to find your sensor): \_\_\_\_\_

There is a small foot trail through the brush a small  
ways Past (on the left) of the "To Cataloochee" sign  
thats by the air quality shed. Its to the  
left of Ashlyn's Sensor

Other notes (list things about the site that you think may influence your sensor's data): \_\_\_\_\_

We are under tree cover closer  
to the ground

**Cullowhee Clean Air  
(WheeCAIR)  
Field Deployment Sheet**

**Research Team & Sensor Information**

Deployment Date: 2019-10-14

Start Time: 11:49

Name(s): Al Hissler

Sensor Model: AFAF

Sensor Build Date & Version: 2019-10-09, v1.0

Coordinates: 175 301768 3909890 Coordinate System: UTM

Reference Datum: WGS84

**Site Information**

Specific site description (provide enough detail for someone else to find your sensor):  
Sensor is located under PM<sub>10</sub> monitors, near the building HVAC system between Northside Building and Shallowell Building (inside brick enclosure, on right side when facing Shallowell).

Other notes (list things about the site you think may influence your sensor's data):  
Afternoon is scattered most from above cushioned surface, in late afternoon clouds from an industrial area, actual surface have some influence.

## Sensor Deployment Instructions

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- You may secure your sensor to trees or fence posts around the Purchase area, including along the Cataloochee divide trail.
- Your sensor **CANNOT** be visible from a trail or walkway.
- You may **NOT** attach your sensor to any historic structures, artifacts, etc.
- Your sensor **CANNOT** interfere with the operation of the NCDEQ Air Quality instruments or the weather station at the site.
- At least two sensors should be installed in a location near the air quality shed/weather station.
- If possible, you should co-locate your sensor with another for comparison.
- Install your sensor with the partially covered opening (“rear opening”) at the top and the full opening at the bottom (“bottom opening”); this ensures rain won’t get into the sensors.
- Similarly, install your sensor angled *slightly* toward the rear opening to that rain is less likely to drip into the sensor.
- If possible, find a location that won’t be disturbed by wildlife.
- Complete the Sensor Installation Checklist and Field Deployment Sheet (attached).

## Sensor Installation Checklist

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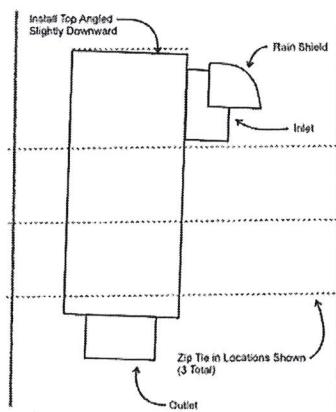
- |                                     |  |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | 1 SD card installed  |
| <input checked="" type="checkbox"/> | 2 All wires/sensors connected correctly (check for broken wires)   |
| <input checked="" type="checkbox"/> | 3 PM sensor positioned correctly   |
| <input checked="" type="checkbox"/> | 4 Batteries connected (black to -, red to +)   |
| <input checked="" type="checkbox"/> | 5 Black reset button on PCB pressed  |
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| <input checked="" type="checkbox"/> | 7 Case lid installed <b>tightly</b> (black seal should compress to keep out water).                            |
| <input checked="" type="checkbox"/> | 8 Sensor securely fastened to tree.  |
| <input checked="" type="checkbox"/> | 9 Sensor field deployment sheet (on back) filled in completely, including location.                            |
| <input checked="" type="checkbox"/> | 10 Photo of installed sensor/site sent to <a href="mailto:dfischer@wcu.edu">dfischer@wcu.edu</a> .             |

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## Sensor Installation Specification

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SIDE VIEW





Cullowhee Clean Air  
(WheeCAIR)  
Field Deployment Sheet

Research Team & Sensor Information

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Deployment Date: 10/21/19 Start Time: 2:32

Name(s): \_\_\_\_\_

Sensor Initials: V+A Sensor Build Date & Version: 2019-10-09, v1.0

Site Information

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Coordinates: Lat: 35.5872 Coordinate System: Maps App  
Long: -83.0743 Reference Datum: \_\_\_\_\_

Specific site description (provide enough detail for someone else to find your sensor):  
To the left of the building up a trail through brush. The trail is about 10 ft. from the building.

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Other notes (list things about the site that you think may influence your sensor's data):  
Wind sheltered under a tree

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**Cullowhee Clean Air  
(WheeC AIR)  
Field Deployment Sheet**

**Research Team & Sensor Information**

Deployment Date: 2019-10-14

Name(s): Al Hisler

Sensor Initials: AFE

Sensor Build Date & Version: 2019-10-09, v1.0

**Site Information**

Coordinates: 175 301768 3909890

Coordinate System: UTM

Reference Datum: WGS84

Specific site description (provide enough detail for someone else to find your sensor):

Location is located outside PM<sub>10</sub> monitors, near the building HVAC system between North and South Building and Alumina II Building (inside brick enclosure, on right side when facing Shallow).

Other notes (list things about the site that you think may influence your sensor's data):

Alte) Ammonium in located several meters from active construction activities surrounding construction.

## Sensor Deployment Instructions

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- You may secure your sensor to trees or fence posts around the Purchase area, including along the Cataloochee divide trail.
- Your sensor **CANNOT** be visible from a trail or walkway.
- You may **NOT** attach your sensor to any historic structures, artifacts, etc.
- Your sensor **CANNOT** interfere with the operation of the NCDEQ Air Quality instruments or the weather station at the site.
- At least two sensors should be installed in a location near the air quality shed/weather station.
- If possible, you should co-locate your sensor with another for comparison.
- Install your sensor with the partially covered opening (“rear opening”) at the top and the full opening at the bottom (“bottom opening”); this ensures rain won’t get into the sensors.
- Similarly, install your sensor angled *slightly* toward the rear opening to that rain is less likely to drip into the sensor.
- If possible, find a location that won’t be disturbed by wildlife.
- Complete the Sensor Installation Checklist and Field Deployment Sheet (attached).

## Sensor Installation Checklist

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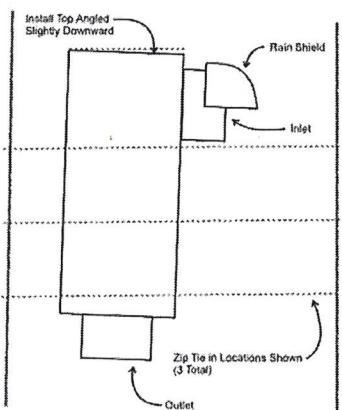
- |                                     |  |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | 1 SD card installed  |
| <input checked="" type="checkbox"/> | 2 All wires/sensors connected correctly (check for broken wires)   |
| <input checked="" type="checkbox"/> | 3 PM sensor positioned correctly   |
| <input checked="" type="checkbox"/> | 4 Batteries connected (black to -, red to +)   |
| <input checked="" type="checkbox"/> | 5 Black reset button on PCB pressed  |
| <input checked="" type="checkbox"/> | 6 Boot sequence correct: 10 s pause, 5 short blinks (orange light), 5 s pause, 2 long blinks (orange light)*** |
| <input checked="" type="checkbox"/> | 7 Case lid installed <b>tightly</b> (black seal should compress to keep out water).                            |
| <input checked="" type="checkbox"/> | 8 Sensor securely fastened to tree.  |
| <input checked="" type="checkbox"/> | 9 Sensor field deployment sheet (on back) filled in completely, including location.                            |
| <input type="checkbox"/>            | 10 Photo of installed sensor/site sent to <a href="mailto:dfischer@wcu.edu">dfischer@wcu.edu</a> .             |

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## Sensor Installation Specification

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SIDE VIEW





Cullowhee Clean Air  
(WheeCAIR)  
Field Deployment Sheet

Research Team & Sensor Information

Deployment Date: 10/21/19 Start Time: 7:30

Name(s): \_\_\_\_\_

Sensor Initials: NC ZV Sensor Build Date & Version: 2019-10-09, v1.0

Site Information

Coordinates: 35.587, -83.074 Coordinate System: Google Maps

Reference Datum: \_\_\_\_\_

Specific site description (provide enough detail for someone else to find your sensor): On the rhododendren across from the weather shed. Right across from door on shed.

Other notes (list things about the site that you think may influence your sensor's data): Under rhododendren shrubs pretty low, about foot off of ground

**Field Deployment Sheet  
(WheeCAIR)  
Cullowhee Clean Air**

**Research Team & Sensor Information**

Deployment Date: 2019-10-14 Start Time: 11:49

Name(s): AL Hissler

Sensor Initials: AFAF Sensor Build Date & Version: 2019-10-09, v1.0

**Site Information**

Coordinates: 175 301768 3909890 Coordinate System: UTM

Specific site description (provide enough detail for someone else to find your sensor):

Building (inside brick enclosure, on right side when facing Shillwell). HVAC system between Northside Building and Shillwell dormitory is located under PM<sub>10</sub> sampler, near the building entrance.

Other notes (list things about the site you think may influence your sensor's data):

Airflow around several nests from active nestbox chain across shopachte corral.

## Sensor Deployment Instructions

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- You may secure your sensor to trees or fence posts around the Purchase area, including along the Cataloochee divide trail.
- Your sensor **CANNOT** be visible from a trail or walkway.
- You may **NOT** attach your sensor to any historic structures, artifacts, etc.
- Your sensor **CANNOT** interfere with the operation of the NCDEQ Air Quality instruments or the weather station at the site.
- At least two sensors should be installed in a location near the air quality shed/weather station.
- If possible, you should co-locate your sensor with another for comparison.
- Install your sensor with the partially covered opening (“rear opening”) at the top and the full opening at the bottom (“bottom opening”); this ensures rain won’t get into the sensors.
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- Complete the Sensor Installation Checklist and Field Deployment Sheet (attached).

## Sensor Installation Checklist

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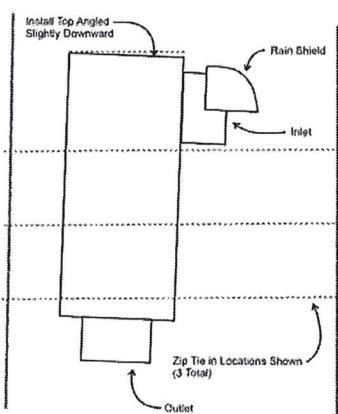
- |                          |  |
|--------------------------|--|
| <input type="checkbox"/> | 1 SD card installed  |
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## Sensor Installation Specification

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SIDE VIEW





**Cullowhee Clean Air  
(WheeCAIR)  
Field Deployment Sheet**

**Research Team & Sensor Information**

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Deployment Date: 10-21-19 Start Time: 2:30 PM

Name(s): \_\_\_\_\_

Sensor Initials: \_\_\_\_\_ Sensor Build Date & Version: 2019-10-09, v1.0

**Site Information**

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Coordinates: 35.587 -83.0741762 Coordinate System: Google Maps

Reference Datum: \_\_\_\_\_

Specific site description (provide enough detail for someone else to find your sensor): \_\_\_\_\_

On the post that is attached to the air quality building

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Other notes (list things about the site that you think may influence your sensor's data): - It is in an open area.

- It is 4 feet off the ground
  - Very high elevation.
  - Mowed grass
- 
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## Field Deployment Sheet (WheeCAIR) Cullowhee Clean Air

• A field study is being conducted at the University of Tennessee Research Team Sensor Information

• The team is using a mobile sensor

• The sensor is being used to monitor air quality

Deployment Date: 2019-10-14 Start Time: 11:49

Name(s): Al Fischer

Sensor Initials: AFAF

Sensor Build Date & Version: 2019-10-09, v1.0

Coordinates: 175.381768, 39.09890 Coordinate System: UTM

## Site Information

Specific site description (provide enough detail for someone else to find your sensor):

Building (inside brick enclosure, on right side when facing Shillwell). HVAC system between Northside Building and Shillwell dormitory. Specific location: Between PM<sub>10</sub> sensors, near the building entrance. Description: Located outside, immediately north of PM<sub>10</sub> sensors, near the building entrance.

Reference Datum: WGS84

Other notes (list things about the site you think may influence your sensor's data):

Area is a forested area of mixed woods from an industrial site. Another is a forested area of mixed woods from an industrial site.

Actual atmospheric conditions

## Sensor Deployment Instructions

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- You may secure your sensor to trees or fence posts around the Purchase area, including along the Cataloochee divide trail.
- Your sensor **CANNOT** be visible from a trail or walkway.
- You may **NOT** attach your sensor to any historic structures, artifacts, etc.
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## Sensor Installation Checklist

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- |                          |  |
|--------------------------|--|
| <input type="checkbox"/> | 1 SD card installed  |
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| <input type="checkbox"/> | 7 Case lid installed <b>tightly</b> (black seal should compress to keep out water).                            |
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| <input type="checkbox"/> | 10 Photo of installed sensor/site sent to dfischer@wcu.edu.  |

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## Sensor Installation Specification

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SIDE VIEW

