North Houston Highway Improvement Project (NHHHIP) Health Impact Assessment

Regional Air Quality Planning Advisory Committee

April 25, 2019
Air Alliance Houston

Air Alliance Houston believes everyone has a right to breathe clean air and where you live, work, learn, and play should not determine your health.
500 Cities Data Challenge

500 Cities: Local data for better health
NHHIP Health Impact Assessment

NHHIP Freeway Expansion

Social & Environmental Impacts

Mediating Factors

Demographics

Behavior

Land Use & Design

Health Outcomes +/-
Vulnerabilities Common Among Affected Schools

Proximity to Freeway
Vulnerabilities Common Among Affected Schools

Proximity to Freeway

Physiology of Children

Vulnerabilities Common Among Affected Schools

Proximity to Freeway

Physiology of Children

Demographics, Socioeconomics

Bruce Elementary Sch
Current VMT Within 150m Buffer
40,797

Asthma Rate
No Data Available

Campus Demographics 2016-2017
Total Enrollment: 563
Total Minority: 99.3%
African-American: 68.7%
Hispanic: 29.1%
Economic Disadvantage: 94.7%
Recent Immigrant: 3.7%

Community Connection
Community Connection Here

Note: Although this campus currently falls just outside the 50m buffer of the existing freeway, it would fall well within the 50m buffer for the projected expansion extent.
Campus-Specific Vulnerabilities
Campus-Specific Vulnerabilities
Campus-Specific Vulnerabilities
Example Mitigation Strategies
Building & Operations

Photo credit: Jeffrey Beall
Example Mitigation Strategies

Building & Operations

Photo credit: Jeffrey Beall
Example Mitigation Strategies
Building & Operations

Photo credit: Jeffrey Beall

Photo credit: Marin County Day School
Example Mitigation Strategies
Campus Improvements

- Trees
- Bushes
- Dual Use Detention Ponds
Example Mitigation Strategies
Transportation Infrastructure
Example Mitigation Strategies

Transportation Infrastructure
Example Mitigation Strategies
Transportation Infrastructure
Example Mitigation Strategies

Transportation Infrastructure
Questions?

Bakeyah Nelson, Corey Williams  
Air Alliance Houston  
bnelson@airalliancehouston.org  
corey@airalliancehouston.org  
713 528 3779

Adele Houghton  
Biositu, LLC  
adeleh@biositu.com  
713 201 7592