## Regional Non-Radioactive Hazardous Materials Route Designation Study

### **Austin Transportation Department** 2019





### Why are we initiating a Study?

- The transport of hazardous materials, which are capable of posing an unreasonable **risk to health, safety, or property** in commerce, are regulated by the Federal and State of Texas governments.
- Today, non-radioactive hazardous materials (NRHM) mostly petroleum products - are being transported on all public roads and highways, including through the densest population centers of the Austin region.

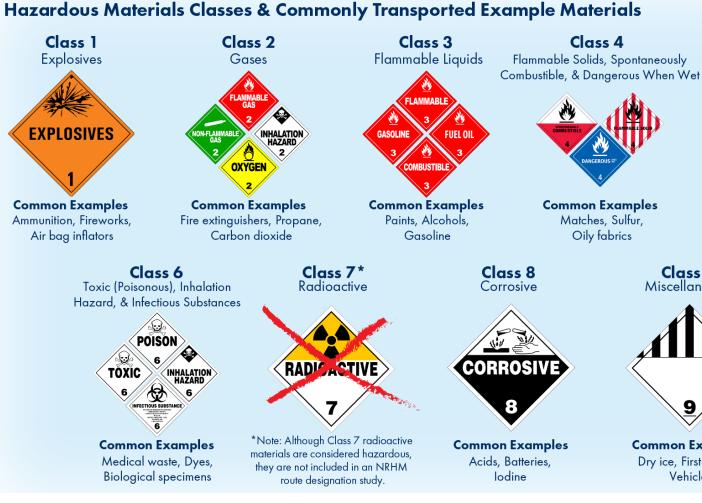
### Federal & State Regulations

Federal standards require the State to make a finding of a nonradioactive hazardous materials (NRHM) route that enhances public safety, and prescribes criteria for a route designation

State regulations require municipalities with a population of more than 850,000 to **designate routes** for commercial motor vehicles carrying NRHM

### What are NRHM?

- NRHM = Non-Radioactive Hazardous **Materials**
- NRHM are materials transported by motor vehicle in types and quantities which require placarding that indicates the type of material being carried.
- Routes for the transport of radioactive materials are designated separately from other hazardous materials due to their unique security/safety risks.



Class 4 Flammable Solids, Spontaneously



**Common Examples** Matches, Sulfur, Oily fabrics

Class 5 Oxidizer and Organic Peroxide



**Common Examples** Hydrogen peroxide, Chlorates Ammonium nitrate fertilizers

Class 9 Miscellaneous



**Common Examples** Dry ice, First aid kits, Vehicles

### Purpose of Study

Designate roadways for through-routing of NRHM in Austin, with logical nexus points, without unduly burdening commerce Minimize potential for vehicular incidents involving NRHM Minimize consequences to the community should an NRHM incident occur

Maximize public safety in relation to NRHM transport

### Study Objectives and Responsibilities

Formed Steering Committee and Stakeholder Working Group (SWG) to guide process

Steering Committee included staff of City of Austin (CoA), and Capital Area Metropolitan Planning Organization

### Define Objectives and Responsibilities

- Stakeholder Working Group to provide technical expertise on infrastructure and operations:
  - CoA departments; TxDOT; CAMPO; Central Texas Regional Mobility Authority (CTRMA); local Chambers of Commerce; emergency response agencies; environmental protection agencies; schools/universities; county representatives; healthcare providers; and shipping/trucking industry representatives
  - CoA boards and commissions including the Chairs of the Public Safety and Urban Transportation Commissions

### Public Involvement and Outreach

- The following public events and outreach efforts were conducted to gather input on the NRHM route identification process, priorities of the community, and preliminary outcomes:
  - Notification to political subdivisions of open house
  - 2 public open houses
    - Locations: Ruiz Branch Public Library & Terrazas Branch Public Library
    - Advertised through official CoA press release, social media, project webpage, and secondary outreach to the SWG and Austin City Council
    - Advertised and covered by local news
  - 2 presentations to local emergency planning committees
  - Presentations to the CAMPO Technical Advisory Committee, CoA Public Safety Committee, and the CoA Mobility Committee, and
  - Coordinated outreach with Austin Strategic Mobility Plan (ASMP) public events

### North-South Through-Routing Example

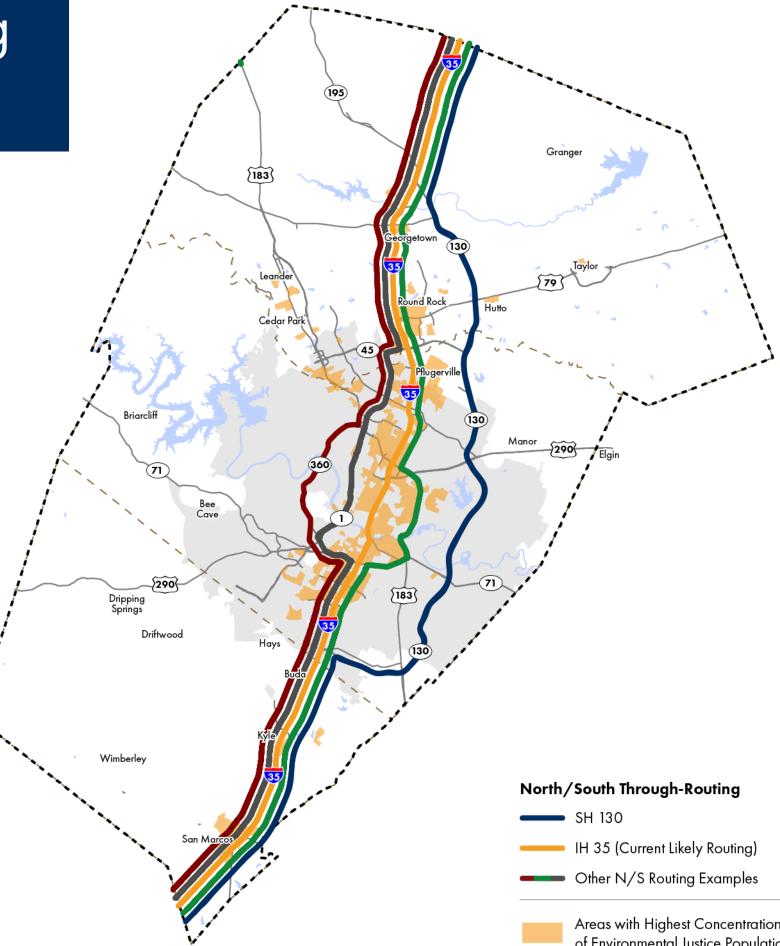
North-south is the predominant NRHM

through-routing movement for the study area

Major Through-Route Risk Analysis Comparison (IH 35 N - S) for Study Area

	Incident Risk Factor	Travel Time	Minority Pop. within 0.5 Miles – Austin ETJ	Pop. in Poverty within 0.5 Miles – Austin ETJ	Residential Units within 0.5 Miles – Austin ETJ
IH 35 (Current Likely)	198	145	150,960	45,153	54,915
SH 130	34	148	43,824	8,571	979
Loop 1 / Mopac	121	154	165,190	51,181	44,567
US 183	209	158	99,272	24,274	41,803
Loop 360	170	163	102,590	30,813	54,184

Sources: 2012-2016 US Census American Community Survey; 2016 City of Austin Land Database

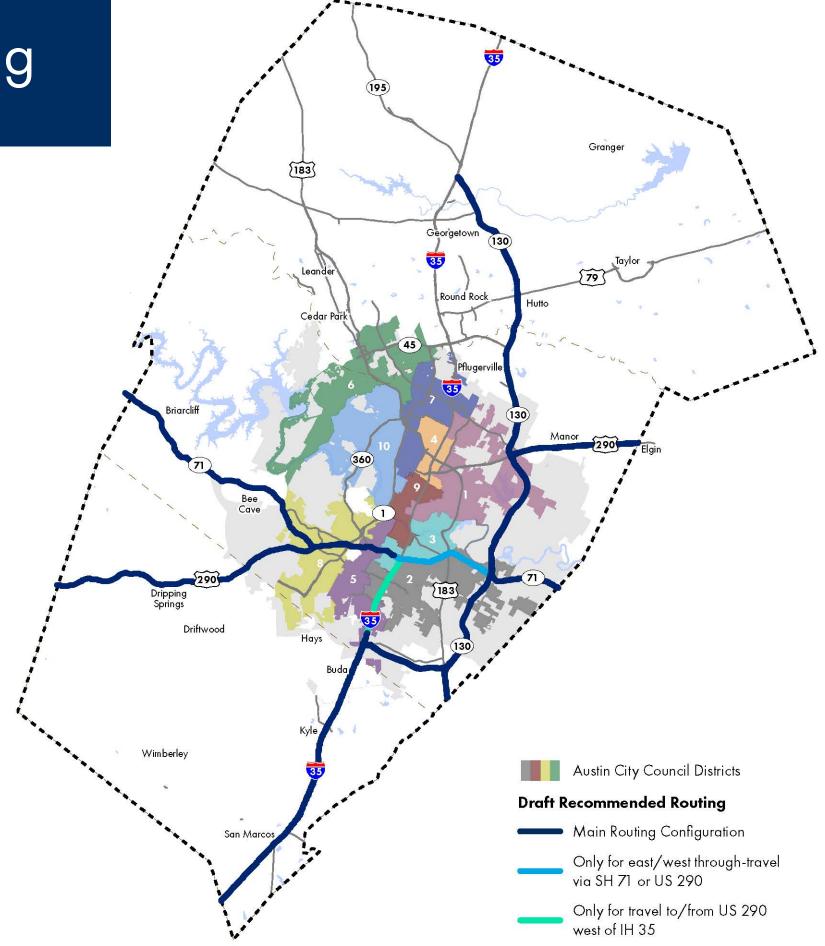


Areas with Highest Concentrations of Environmental Justice Populations

### Draft Recommended Routing

This map shows the draft recommended NRHM routing for the City of Austin.

Note that the routing is broken down into three categories to minimize the potential burden to commerce.





- Notify affected cities and counties within 25 miles of routes and request comments
- Review comments and adjust as needed
- Post formal notification in two general circulation newspapers; additional email notification to jurisdictions
- Austin City Council public hearing; approve submittal to TxDOT
- TxDOT review and comment; notify jurisdictions, post in Texas Register
- 30 day public comment period
- TxDOT public hearing, consideration of approval
- City Council ordinance to fund signage, notification and enforcement

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# Thank You!

