August 10, 2017

Members of the Regional Growth Committee and Other Interested Persons:

A meeting of the Regional Growth Committee will be held Thursday, August 17th, 2017 at 9:30 a.m. in the Wasatch Front Regional Council offices located at 295 North Jimmy Doolittle Road, in Salt Lake City. The Agenda will be as follows:

**Welcome and Introductions**

1. **Action:** Minutes from the May 18, 2017 Meeting

2. **Opportunity for Public Comment**

3. **Chair Report**
   - Transportation Funding and Governance Taskforce
   - Wasatch Choice 2050 and Regional Transportation Plan 2019-2050
   - Point of the Mountain

4. **Information/Discussion:** Economic development and transportation integration at WFRC: Strategic industry clusters, access to opportunity, fiscal sustainability

5. **Action:** Regional Transportation Plan (RTP) 2015-2040 Amendment #4

6. **Information/Discussion:** Corridor Planning - The Wasatch Front Central Corridor

7. **Information/Discussion:** WFRC Funding Opportunities for Local Governments

8. **Information/Discussion:** Air quality planning update

9. **Other Business**

**Next Meeting:** October 12, 2017 *Note the new date

**Upcoming Events:**

Note: Informational materials can be located on WFRC’s website at [www.wfrc.org](http://www.wfrc.org).

Public participation is solicited without regard to age, sex, disability, race, color or national origin. Persons who require translation for a meeting should contact the WFRC’s Title VI Administrator at 801-363-4250 or heather@wfrc.org at least 72 hours in advance.

Se solicita la participación del público, sin importar la edad, el sexo, la discapacidad, la raza, color o nacionalidad. Personas que requieren servicios de traducción deben contactar a WFRC’s Administrador de Título VI al teléfono 801-363-4250 o heather@wfrc.org por lo menos 72 horas antes de la reunión.
BACKGROUND:
The Wasatch Front Regional Council’s mission is to build consensus and enhance quality of life by developing and implementing visions and plans for a well-functioning multi-modal transportation system, livable communities, a strong economy, and a healthy environment. Economic development and its interaction with transportation and land use is an important element of the work we do at the Wasatch Front Regional Council.

Last August, we brought before you the “Three Key Strategies” for integrating economic development with land use and transportation. LaNiece Davenport, the Wasatch Front Regional Council’s Economic Development District (EDD) Director will provide an update on economic development integration efforts and how we have been using them.

Three Key Strategies
*Integrating Economic Development with Transportation and Land Use*

1. Coordinate Transportation Investments with Economic Clusters
2. Coordinate Transportation Investments to Improve Access to Opportunity
3. Ensure Fiscal Sustainability through Efficient Growth and Infrastructure Investments

RECOMMENDATION:
This item is for information only and no action is required.

CONTACT PERSON:
LaNiece Davenport (WFRC) (801) 363-4250 ext. 1136, ldavenport@wfrc.org

ATTACHMENT:
3 Key Strategies for Economic Development
THREE KEY STRATEGIES FOR INTEGRATING ECONOMIC DEVELOPMENT WITH TRANSPORTATION AND LAND USE

The Wasatch Front Regional Council integrates economic development with transportation and land use using the following strategies.

### Coordinate transportation investments with economic cluster locational and service needs.

Addressing locational and service needs ensures that Utah’s clusters grow and remain healthy over the longer term.

<table>
<thead>
<tr>
<th>PROGRESS</th>
<th>COLLABORATIVE ACTIONS</th>
</tr>
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| • Measure growth of clusters relative to transportation investments  
• Measure travel time of goods delivered to clusters  
• Measure workforce access to clusters  | • Create a coordinated regional cluster priority map  
• Align WFRC programs with cluster needs |

### Coordinate transportation investments to improve access to opportunity.

Improving access to jobs and services helps individuals be more self-sufficient and facilitates upward economic mobility. Metropolitan areas that promote upward mobility achieve higher economic performance.

<table>
<thead>
<tr>
<th>PROGRESS</th>
<th>COLLABORATIVE ACTIONS</th>
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</table>
| • Measure jobs and educational opportunities within a short car, transit, bike or walk trip  
• Measure access to large job and educational centers  
• Measure program funding to improve areas with lower incomes  | • Prioritize projects that support access to opportunity  
• Prioritize projects that improve access for lower income households  
• Work with local governments to maximize access to opportunity through new development |

### Ensure fiscal sustainability through efficient growth and infrastructure investments.

Encouraging efficient growth and the use of existing infrastructure makes our resources go farther.

<table>
<thead>
<tr>
<th>PROGRESS</th>
<th>COLLABORATIVE ACTIONS</th>
</tr>
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</table>
| • Measure center and infill growth  
• Measure revenue and cost burden for communities  
• Measure travel demand, including driving distances, and use of alternative modes  | • Align programming/funding decisions to utilize existing investments and promote efficient growth  
• Work with local governments to encourage efficient growth  
• Collaborate to reduce travel demand |
At the Regional Growth Committee (RGC) meeting, WFRC staff will present the proposed Amendment Number 4 to the current 2015-2040 Regional Transportation Plan (2015-2040 RTP), along with Draft Air Quality Memorandum 36. The action requested is to make a recommendation to the Council on the formal adoption of these modifications and conformity analysis. This proposed amendment was presented to and discussed at the May 18 Regional Growth Committee meeting, and then public comments were solicited from July 1, 2017 to August 5, 2017; no comments were received. Therefore, this Amendment 4 has not changed from what RGC reviewed in May.

BACKGROUND:
Every four years the Wasatch Front Regional Council (WFRC) prepares and adopts a Regional Transportation Plan. WFRC adopted the current 2015-2040 RTP in May 2015. While the RTP receives considerable review before being formally adopted, the identification of new funding sources, the determination of final environmental impact statements, or the rapid development of certain projects, may warrant a change to the RTP. A process for amending the RTP has been reviewed by the RGC and was formally adopted by WFRC. This process was last updated in March 2016.

At the May 18, 2017 RGC meeting, committee members discussed the amendment process and the potential use of additional technical considerations for future amendments. Additional information of this type will allow members to make more informed decisions about proposed amendments to the RTP. Since that time, the WFRC staff has discussed a variety of technical considerations in relationship to the adopted Wasatch Choice 2050 Goals that could be used to compare and evaluate projects. The WFRC staff will propose potential additional technical considerations for amendments to the October 12, 2017 RGC meeting after reviewing all considerations with the Utah Department of Transportation (UDOT), the Utah Transit Authority (UTA), and the RGC Technical Advisory Committees in September. For now, staff has utilized the standard amendment review criteria for evaluating this Amendment 4, including financial constraints and air quality conformity. Staff also looked at the following considerations in a preliminary effort to provide additional information on the six major capacity improvement projects in Amendment Number 4: safety, connection to centers, and multimodal elements.

Amendment 4 reflects 17 requests WFRC received from Salt Lake County, Draper, Herriman, South Jordan, Cottonwood Heights, Taylorsville, Murray, Kaysville and Layton, Marriott-Slaterville, Clearfield, and UDOT to amend the 2015-2040 RTP. Nearly two-thirds of these projects need to be included in the RTP because of State requirements for local funding eligibility.
- Ten of the seventeen amendments are seeking financing through local Corridor Preservation Funds. Funding for these potential projects has not yet been determined, but amendment into the RTP is the first step to allow communities to pursue local
Corridor Preservation Funds to finance these improvements.

- One of the amendments is seeking Weber County-administered sales tax revenue.

The remaining six projects need to be included in Phase 1 of the 2015-2040 RTP because they are major capacity projects in order to be eligible for funding.

- Three of the amendments could utilize funding from the WFRC-administered Surface Transportation Program (STP) funds.
- Three UDOT projects could be financed through the Transportation Investment Fund (TIF).
- Two additional UDOT projects may also be funded with the TIF. Neither requires amendment into the 2015-2040 RTP; both are included for information only.

**PROCESS:**
The WFRC staff has discussed each of the 17 amendment requests with their respective sponsors, analyzed the potential financial implications of these proposed amendments and determined that the 2015-2040 RTP is able to maintain its fiscal constraint while accommodating construction of these projects in all Phases. The WFRC staff reviewed the air quality impacts, found in the Draft Air Quality Memorandum 36, to ensure that all applicable air quality conformity requirements are met and results were provided during the comment period.

The WFRC staff presented these amendments to the Regional Growth Committee’s Salt Lake County PlanTAC and the Ogden-Layton RGC TAC on April 19, 2017 and to the Regional Growth Committee on May 18, 2017. Presentations were also made to the Weber Council of Governments (COG) on June 5, 2017 and to the Davis County COG on June 21, 2017. Salt Lake COG members received the amendment information on June 29, 2017 via an email. The formal public review and comment period took place from July 1, 2017 to August 5, 2017 and no comments were received. At the August 17, 2017 Regional Growth Committee meeting, the members will be asked to make a final recommendation to the Wasatch Front Regional Council for the formal adoption of the requested Amendment Number 4 along with the accompanying air quality conformity analysis during their August 24, 2017 meeting.

**RECOMMENDATION:**
The WFRC staff requests that the Regional Growth Committee recommend approval of Amendment Number 4 and the Draft Air Quality Memorandum 36 to the Wasatch Front Regional Council.

*Suggested motion language: I make a motion to recommend that the Wasatch Front Regional Council approve Amendment Number 4 to the 2015-2040 RTP and the air quality conformity determination as found in Draft Air Quality Memorandum 36.*

**CONTACT PERSON:**
Jory Johner (WFRC) (801) 363-4250 ext. 1110, jjohner@wfrc.org

**ATTACHMENTS:**
Amendment Number 4 Project Overviews
Draft Air Quality Memorandum 36
AMENDMENT NUMBER 4 PROJECT OVERVIEWS

PROJECTS GUIDED BY STATE REQUIREMENTS FOR INCLUSION IN THE REGIONAL TRANSPORTATION PLAN (RTP)

Projects Seeking Corridor Preservation Funding
The following amendment requests are based on the State requirement that community applicants who are interested in utilizing local Corridor Preservation Funds must first have their project as part of the WFRC’s RTP. Funding for these amendment projects has not yet been determined, but amendment into the RTP is the first step to allow communities to pursue local corridor preservation funds to finance these improvements.

HERRIMAN CITY
1. Operational Improvements on 6000 West  Cost: $2.5 Million
   This project calls for a new Phase 2 operational improvement along 6000 West from Herriman Parkway to Herriman Main Street. Benefits of this amendment would include the completion of the road cross-section, including curb, gutter, sidewalks, and storm drain improvements.

2. Operational Improvements on 6400 West  Cost: $1.9 Million
   This request is for a new Phase 1 operational improvement project on 6400 West from Herriman Main Street to 13400 South to help reduce traffic congestion and complete the road’s cross-section, including curb, gutter, sidewalks, and storm drain improvements.

3. Operational Improvements and New Construction on 7300 West  Cost: $4.7 Million
   This request is for a new Phase 3 operational improvement project on 7300 West from Herriman Main Street to 14000 South and new construction of 7300 West from 14000 South to Rose Canyon Road. Operational improvements would help complete the road cross-section, including curb, gutter, sidewalks, and storm drainage, while the new construction will provide street connectivity and improve emergency access to the neighborhood.

SOUTH JORDAN CITY
4. Widening of Riverfront Parkway  Cost: $1.8 Million
   This request is for a new Phase 1 widening project on Riverfront Parkway between 11050 South and 11400 South from three to five lanes. Benefits of this amendment include a consistent cross-section to 11400 South, along with accommodating increased traffic volumes along Riverfront Parkway.

5. Operation Improvements on 2700 West  Cost: $4 Million
   This request is for a new Phase 1 operational improvement on 2700 West from 9800 South to 11400 South. The widening of 2700 West will allow for a center turn lane to be added to the road’s cross-section. This, in turn, will improve traffic flow which adding needed curb, gutter, sidewalks, and storm drainage improvements.

COTTONWOOD HEIGHTS
6. Operational Improvements on Bengal Boulevard  Cost: $2.6 Million
   This request is for a new Phase 1 operational improvement on Bengal Boulevard from Highland Drive to 2325 East. This would include a roundabout joining both 2300 East and 2325 East. Benefits would include improved traffic safety and flow, especially for pedestrians traveling to and from a nearby school. This project would complete the road’s cross-section with curb, gutter, sidewalks, and storm drain improvements.
7. **Widening of Fort Union Boulevard**  
   **Cost:** $3.6 Million  
   This request is for a new Phase 1 widening project on Fort Union Boulevard between 3000 East and Wasatch Boulevard from two to four lanes. Benefits of this amendment include a consistent cross-section on Fort Union to Wasatch Boulevard, along with addressing increased traffic volumes along Fort Union Boulevard.

**MURRAY CITY**

8. **Widening of Vine Street**  
   **Cost:** $10 Million  
   This project calls for the widening of Vine Street in Murray City between 900 East and the Van Winkle Expressway as a new, Phase 1 project. Benefits of this amendment include a consistent cross-section on Vine Street, along with addressing increased traffic volumes and the completion of the road cross-section, including curb, gutter, sidewalks, and storm drain improvements.

**CLEARFIELD CITY**

9. **New Construction of Depot Street**  
   **Cost:** $2 Million  
   This request is for the extension of Depot Street from SR-193 (700 South) to the Clearfield FrontRunner Station (approximately 1250 South). This new Phase 1 project would be a three lane major collector facility providing improved street connectivity, better connection to the transit via the FrontRunner Station and would serve a planned major economic development project creating hundreds of new jobs.

**SALT LAKE COUNTY**

10. **Operational Improvements on 8000 West**  
    **Cost:** $2 Million  
    This is a new Phase 1 project that would widen 8000 West between SR-201 and 3100 South. The project would realign the intersection at 2700 South, resulting safety and traffic congestion improvements, along with improving local street connectivity.

**Projects Seeking Weber County Sales Tax Funding**

The following amendment request is based on the State requirement that community applicants who are interested in utilizing 3rd quarter local sales tax funds must first have their project as part of the WFRC’s Regional Transportation Plan. Funding for this amendment project has not yet been determined, but this first step will allow communities to pursue this avenue of possible revenues to finance these improvements.

**CITY OF MARRIOTT-SLATERVILLE**

11. **Operation Improvement on 1200 West**  
    **Cost:** $5.6 Million  
    This request is for an extension of a current Phase 1 operational improvement on 1200 West in the City of Marriott-Slaterville from 1200 South to 2700 North. The amendment would provide better traffic flow along 1200 West and would deliver a consistent cross-section including curb, gutter, sidewalks, and storm drain improvements.

**MAJOR CAPACITY PROJECTS**

**Projects Seeking STP Funding**

The following amendment requests are major capacity projects that must be included in Phase 1 of the RTP in order to be eligible for Urban Surface Transportation Program (STP) funding administered by the Wasatch Front Regional Council. Funding for these amendment projects has not yet been determined, but this first step will allow communities to pursue this avenue of possible revenues to finance these improvements.
DRAPER CITY
12. Widening of Lone Peak Parkway  Cost: $6 Million
This request is to move the widening project on Lone Peak Parkway from 12300 South to 12650 South from three to five lanes from Phase 2 to Phase 1. The widening and realignment will provide a consistent cross-section to Bangerter Highway, provide better traffic flow along Lone Peak Parkway, and will support a direct connection to the FrontRunner Station.

TAYLORSVILLE CITY
13. New Construction of I-215 Frontage Road  Cost: $14.5 Million
This request is to move the new southbound I-215 Frontage Road between 4100 South and 4700 South from Phase 2 to Phase 1. This facility would provide congestion and safety improvement on both 4700 South and 2700 West, along with providing improved access to development between 2700 West and I-215.

KAYSVILLE AND LAYTON CITY
14. Widening of Main Street  Cost: $3.1 Million
This request is for the widening of Main Street from three to five lanes from 300 West in Kaysville City to Layton Parkway in Layton City. The amendment would be for a new Phase 1 project that would provide a consistent cross-section. The project would address increased traffic volumes along Main Street.

Projects to Utilize TIF Funding
The following amendment requests are major capacity projects that must be included in Phase 1 of the RTP in order to be eligible for the Transportation Investment Fund (TIF) Program administered by the Utah Department of Transportation (UDOT).

UTAH DEPARTMENT OF TRANSPORTATION
15. Bangerter Highway Interchange at 4700 South  Cost: $44.3 Million
The Utah Department of Transportation is requesting that the current intersection at Bangerter Highway and 4700 South be replaced with a freeway interchange and moved from Unfunded to Phase 1. This improvement will provide a continuous freeway cross-section from 4700 South to I-15. East and West traffic flow will improve, along with an increase in safety.

16. Bangerter Highway Interchange at 13400 South  Cost: $43.2 Million
The Utah Department of Transportation is requesting that the current intersection at Bangerter Highway and 13400 South be replaced with a freeway interchange and moved from Phase 2 to Phase 1. This improvement will provide a continuous freeway cross-section from 4700 South to I-15. East and West traffic flow will improve, along with an increase in safety.

17. Widening of US Highway 89  Cost: Currently Funded
This request from the Utah Department of Transportation is to extend the currently funded US-89 project from Farmington City to Antelope Drive to now extend to I-84. The amendment would include the widening from four to six lanes and move this project from the unfunded portion of the RTP to Phase 1. Benefits of this improvement would help traffic flow along this major arterial, increase safety, and is part of an overall plan to upgrade this facility to a north / south freeway.
For Information Only

Finally, two additional UDOT projects may be funded with the TIF. Neither project requires amendment into the 2015-2040 RTP; both are included for information only.

UTAH DEPARTMENT OF TRANSPORTATION

18. Construction of Interstate 15 Braided Ramp  
Cost: $130 Million  
The Utah Department of Transportation anticipates the new construction of a northbound braided ramp on I-15 between 9000 South and I-215. An existing operational project is already in the 2015-2040 RTP making an amendment unnecessary. However, the project details are provided for member information. This type of improvement will provide better traffic flow and helps to address increased northbound traffic volumes along I-15. This project will also provide relief to congestion at the 7200 South and 9000 South interchanges.

19. Construction of SR-201 Extension  
Cost: $100 Million  
This request is outside the geographic purview of the WFRC Regional Transportation Plan, but is included for information to WFRC members due to its interaction with the 2015-2040 RTP. The project calls for extending and new construction of SR-201 from the SR-201/I-80 connection to the I-80/SR-36 connection. This project is a parallel facility alongside of I-80 and would allow for an emergency bypass, provide better traffic flow, and addresses increased traffic volumes on I-80.
Air Quality Memorandum

REPORT NO.  36 - DRAFT

DATE  June 20, 2017

SUBJECT  CONFORMITY ANALYSIS FOR AMENDMENT #4 OF THE WFRC 2015-2040 REGIONAL TRANSPORTATION PLAN.

ABSTRACT  The FAST Act and the Clean Air Act Amendments (CAA) require that all regionally significant highway and transit projects in air quality non-attainment and maintenance areas be derived from a “conforming” Regional Transportation Plan and Transportation Improvement Program. A conforming Plan or Program is one that has been analyzed for emissions of controlled air pollutants and found to be within emission limits established in the State Implementation Plan (SIP) or within guidelines established by the Environmental Protection Agency (EPA) until such time that a SIP is approved. This conformity analysis is made by the Wasatch Front Regional Council (WFRC), as the Metropolitan Planning Organization for the Salt Lake- West Valley and Ogden-Layton Urbanized Areas, and submitted to the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) for their concurrence. This conformity analysis is being prepared according to the transportation conformity rulemakings promulgated by the EPA as of March 2010 and according to FHWA final rulemakings found in the FAST legislation. The EPA approved MOVES model for estimating vehicle emissions was used for this conformity analysis.

This conformity analysis addresses the emissions impact of the May 2017 amendments to 2015-2040 RTP which are described in detail in Appendix 4. The projected vehicle activity is based on Version 8.1 of the WFRC travel demand model and the 2012 Household Travel Survey of trip making activity. For a detailed description of projects included in the 2040 RTP, see [http://www.wfrc.org/new_wfrc/index.php/projects/project-lists](http://www.wfrc.org/new_wfrc/index.php/projects/project-lists) and select the link for “Highway Projects List” or “Transit Projects List”. Refer to Appendices 2 and 3 of this document for projects in Box Elder and Tooele Counties.

Wasatch Front Regional Council
295 North Jimmy Doolittle Road
Salt Lake City, Utah 84116
Based on the analysis presented in this document, the amended WFRC 2015-2040 RTP conforms to the State Implementation Plan or the Environmental Protection Agency interim conformity guidelines for all pollutants in applicable non-attainment or maintenance areas. Therefore, all transportation projects in Box Elder, Weber, Davis, Salt Lake, and Tooele Counties included in the amended 2015-2040 RTP are found to conform.
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A. Conformity Requirements

Conformity Process
Since the commencement of the federal transportation planning requirements in the late 1960s, further requirements (most recently the 2015 Fixing America’s Surface Transportation Act (FAST) and the 1990 Clean Air Act Amendments) have added to the responsibilities and the decision making powers of local governments through the Metropolitan Planning Organization. The Wasatch Front Regional Council (WFRC) is the Metropolitan Planning Organization for the Salt Lake/West Valley and Ogden/Layton Urbanized Areas. This report summarizes WFRC’s conformity analysis of the 2015-2040 RTP with the Division of Air Quality’s State Implementation Plan (SIP) and the Environmental Protection Agency’s interim conformity guidelines. This conformity analysis is subject to public and agency review, and requires the concurrence of the Federal Highway Administration and Federal Transit Administration.

In November, 1993, the Environmental Protection Agency and the U.S. Department of Transportation issued rules establishing the procedures to be used to show that transportation plans and programs conform to the SIP. The conformity rules establish that federal funds may not be used for transportation projects that add capacity in areas designated as “non-attainment (or maintenance) with respect to the National Ambient Air Quality Standards”, until and unless a regional emissions analysis of the Plan and TIP demonstrates that the projects conform to the SIP. This restriction also applies to “regionally significant” transportation projects sponsored by recipients of federal funds even if the regionally significant transportation project uses local funds exclusively.

Davis, and Salt Lake Counties, Salt Lake City, Ogden City and portions of Weber, Box Elder and Tooele Counties are designated as non-attainment (or maintenance) for one or more air pollutants. Specifically, there are four areas in the Wasatch Front region for which the conformity rules apply. These areas are listed in Table 1 below.

Table 1
Wasatch Front Region Non-attainment Designations

<table>
<thead>
<tr>
<th>Area</th>
<th>Designation</th>
<th>Pollutant</th>
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<tbody>
<tr>
<td>Salt Lake City</td>
<td>Maintenance Area</td>
<td>Carbon Monoxide (CO)</td>
</tr>
<tr>
<td>Ogden City</td>
<td>Maintenance Area</td>
<td>Carbon Monoxide (CO)</td>
</tr>
<tr>
<td></td>
<td>Moderate Non-Attainment Area</td>
<td>Particulate Matter (PM$_{10}$)</td>
</tr>
<tr>
<td>Salt Lake County</td>
<td>Moderate Non-Attainment Area</td>
<td>Particulate Matter (PM$_{10}$)</td>
</tr>
<tr>
<td>Salt Lake</td>
<td>Serious Non-Attainment Area</td>
<td>Particulate Matter (PM$_{2.5}$)</td>
</tr>
<tr>
<td>(including Davis, Salt Lake, and portions of Weber, Box Elder, and Tooele Counties)</td>
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The CAAA established requirements for conformity. These requirements are outlined in 40 CFR 93.109 and include the following:

- Latest planning assumptions
- Transportation Control Measures (TCM)
- Emissions budget
- Project from a conforming plan and TIP
- PM$_{10}$ control measures

- Latest emissions model
- Consultation
- Currently conforming plan and TIP
- CO and PM$_{10}$ “hot spots”

Each of these requirements will be discussed in the following paragraphs.

**Latest Planning Assumptions**
Current travel models are based on socioeconomic data and forecasts from local building permits, the Utah Division of Workforce Services, and the Governor’s Office of Management and Budget (GOMB). Base year socioeconomic data are for calendar year 2011. Forecasts of population and employment by traffic analysis zone were developed by WFRC in 2013 and are controlled to county-level forecasts published by GOMB in October, 2012.

**Latest Emissions Model**
The conformity analysis presented in this document is based on EPA mobile source emissions models: MOVES2014a for tailpipe emissions and AP-42 section 13.2.1 for paved road dust emissions. The application of these models will be discussed in greater detail in the Emissions Model section of this document.

**Consultation Process**
Section 105 of 40 CFR Part 93 (Conformity Rule) requires, among other things, interagency consultation in the development of conformity determinations. To satisfy this requirement, the State Division of Air Quality (DAQ) prepared a Conformity SIP to outline the consultation procedures to be used in air quality and transportation planning. The Conformity SIP also defines the membership of the Interagency Consultation Team (ICT) as representatives from DAQ, WFRC, Mountainland Association of Governments, Utah Department of Transportation, Utah Transit Authority, EPA, FHWA, and the FTA. The Conformity SIP has been approved by EPA. WFRC followed the consultation procedures as outlined in the Conformity SIP in the preparation of this conformity analysis. As part of the public involvement procedures referenced in the Conformity SIP, WFRC presented this report to the Transportation Committee (or TransCom) and the Technical Advisory Committee for review and comment. The TransCom committee includes a member of the Utah Air Quality Board as well as representatives of UDOT, UTA, and FHWA. In addition, management level staff members from the Utah Division of Air Quality are notified of meetings and agendas of the above committees. The Utah Division of Air Quality and other members of the ICT were also provided with a copy of this report during the public comment period for the 2015-2040 RTP.

This Conformity Analysis for the 2015-2040 RTP was made available for public inspection and comment for a 30-day period in accordance with EPA conformity regulations. This analysis was also posted on the WFRC website during the comment period. Notification of the comment period was sent by electronic mail to interested stakeholders. In addition, public comment was taken during various committee meetings of the Wasatch Front Regional Council.
TCM Implementation
A conformity analysis for the 2015-2040 RTP must certify that the RTP does not interfere with the implementation of any Transportation Control Measure (TCM) identified in the applicable State Implementation Plan (SIP). There is one TCM from the original SIP section for the 1-hour ozone standard which has been carried forward to the current ozone maintenance plan, even though the 1-hour ozone standard has been revoked. This TCM, the employer-based trip reduction program, applies to local, state, and federal government employers. The program emphasizes measures to reduce the drive-alone rate such as subsidized bus passes, carpooling, telecommuting, and flexible work schedules. UTA has in place the ECO pass discount for a number of large employers including the University of Utah and Weber State University. Ridesharing, telecommuting, and flexible work schedules are programs currently managed, promoted, or operated by UTA Rideshare and the UDOT Travelwise program. Congestion Mitigation and Air Quality (CMAQ) funds and other transportation funds are used to support these ongoing programs.

Emissions Budget
A comparison of mobile source emission estimates to emission budgets defined in the SIP is outlined in this document in Section D - Conformity Determination.

Currently Conforming Plan and TIP
The existing 2040 RTP for the Wasatch Front Area conforms to State air quality goals and objectives as noted in a letter from FHWA and FTA dated September 19, 2016. The existing 2017-2022 TIP for the Wasatch Front Area was also found to conform and this was noted in a letter from FHWA and FTA also dated September 19, 2016.

Projects from a Conforming Plan and TIP
TIP Time Frame - All projects which must be started no later than 2022 in order to achieve the transportation system envisioned by the 2015-2040 RTP are included in the 2017-2022 TIP. The TIP is fiscally constrained, meaning that only those projects with an identified source of funds are included in the TIP. Estimated funding availability is based on current funding levels and reasonable assumptions that these funds will continue to be available. Conformity for the 2017-2022 TIP is addressed separately in Air Quality Memorandum 34a.

Regionally Significant
All regionally significant projects, regardless of funding source (federal, state, or local) are included in the RTP. All regionally significant projects are also included in the regional emissions analysis of the RTP. Regionally significant projects are identified as those projects functionally classified as a principal arterial or higher order facility, and certain minor arterials as identified through the interagency consultation process (see Appendix 1 for a complete definition of regionally significant projects). The latest Utah Department of Transportation Functional Classification map is used to identify functional classification. Interstate highways, freeways, expressways, principal arterials, certain minor arterials, light rail, and commuter rail are treated as regionally significant projects.

Because of their relative impact on air quality, all regionally significant projects regardless of funding source must be included in the regional emissions analysis, and any significant change in the
design or scope of a regionally significant project must also be reflected in the analysis. All regionally significant projects have been included in the regional emissions analysis, and the modeling parameters used for these projects are consistent with the design and scope of these projects as defined in the RTP. In order to improve the quality of the travel model, minor arterials and collectors, as well as local transit service, are also included in the regional travel model (and thus the regional emissions analysis) but these facilities are not considered regionally significant since they do not serve regional transportation needs as defined by EPA. For a list of projects included in this conformity analysis, see http://www.wfrc.org/new_wfrc/index.php/projects/project-lists and select the link for “Highway Projects List” or “Transit Projects List”. Refer to Appendices 2 and 3 of this document for projects in Box Elder and Tooele Counties.

CO, PM\textsubscript{10} and PM\textsubscript{2.5} “Hot Spot” Analysis

In addition to the regional emissions conformity analysis presented in this document, specific projects within carbon monoxide (CO) and particulate matter (PM\textsubscript{10} and PM\textsubscript{2.5}) non-attainment areas are required to prepare a “hot spot” analysis of emissions. The “hot spot” analysis serves to verify whether localized emissions from a specific project will meet air quality standards. This requirement is addressed during the NEPA phase of project development before FHWA or FTA can issue final project approval.

FHWA has issued guidance on quantitative PM\textsubscript{10} and PM\textsubscript{2.5} “hot spot” analysis to be used for the NEPA process. This guidance can be found at:

PM\textsubscript{10} Control Measures

Construction-related Fugitive Dust - Construction-related dust is not identified in the Utah SIP as a contributor to the PM\textsubscript{10} non-attainment area. Therefore, there is no conformity requirement for construction dust. Section 93.122(d) (1) of 40 CFR reads as follows:

“For areas in which the implementation plan does not identify construction-related fugitive PM10 as a contributor to the non-attainment problem, the fugitive PM10 emissions associated with highway and transit project construction are not required to be considered in the regional emissions analysis.”

In the Utah PM\textsubscript{10} SIP, construction-related PM\textsubscript{10} is not included in the inventory, nor is it included in the attainment demonstration or control strategies. Control of construction-related PM\textsubscript{10} emissions are mentioned in qualitative terms in Section IX.A.7 of the SIP as a maintenance measure to preserve attainment of the PM\textsubscript{10} standard achieved by application of the control strategies identified in the SIP. Section IX.A.7.d of the SIP requires UDOT and local planning agencies to cooperate and review all proposed construction projects for impacts on the PM\textsubscript{10} standard. This SIP requirement is satisfied through the Utah State Air Quality Rules. R307-309-4 requires that sponsors of any construction activity file a dust control plan with the State Division of Air Quality.
Other Conformity Requirements

Transit Fares - Transit fares have increased periodically and will continue to increase in response to rising operating costs. The RTP assumes that transit fare revenues will cover a constant percentage of all transit operating cost, so future fare increases are consistent with the Plan. With any price increase some market reaction is expected. While there have been some short term fluctuations in transit patronage in response to fare increases, the implementation of light rail service and other transit improvements has retained and increased transit patronage consistent with the levels anticipated by the RTP.

Plans to expand light rail service, to increase and enhance bus service, and to extend commuter rail operations are moving forward. These transit projects are envisioned in the Plan and the steps necessary to implement these projects are moving forward including various voter approved sales tax increases for transit funding.

B. Transportation Modeling

Improvement to the WFRC travel demand model practice and procedure is an ongoing process. This conformity analysis is based on the latest version (8.1) of the travel demand model. Version 8.1 of the travel demand model updates the former 2007 base year with socio-economic data and transportation networks for the new 2011 base year. The new model also incorporates the results of the 2012 Household Travel Survey conducted by WFRC. Version 8.1 of the model adds more traffic analysis zones, and the transit mode choice portion of the model has been enhanced. Details of Version 8.1 of the travel model are documented in a report titled “WFRC/MAG Version 8.1 Travel Demand Model Documentation” which is available upon request.

Planning Process

Federal funding for transportation improvements in urban areas requires that these improvements be developed through a comprehensive, coordinated, and continuous planning process involving all affected local governments and transportation planning agencies. The planning process is certified annually by the Regional Council and reported to the Federal Highway Administration and Federal Transit Administration. Every four years FHWA and FTA conduct a comprehensive certification review. The certification review of August 2013 found that the WFRC planning process meets federal requirements. Recommendations were made to improve WFRC’s planning process and these are being addressed.

The documentation of the planning process includes at a minimum, a twenty-year Regional Transportation Plan updated at least every four years; and a four-year Transportation Improvement Program (capital improvement program) updated and adopted at least every four years. The planning process includes the involvement of local elected officials, state agencies, and the general public.
Travel Characteristics
The WFRC travel model is used to estimate and forecast highway Vehicle Miles Traveled (VMT) and vehicle speeds for Weber, Davis, and Salt Lake Counties. A separate travel model is used to estimate VMT and speed in Tooele County. For VMT and speed estimates in Box Elder County, WFRC relied on forecasts provided by the Utah Department of Transportation. The WFRC travel demand model is based on the latest available planning assumptions and a computerized representation of the transportation network of highways and transit service. The base data for the travel demand model is reviewed regularly for accuracy and updates. The travel model files used for this conformity analysis are available upon request.

Shown below in Table 2 is a summary of weekday VMT for the cities and counties in designated non-attainment areas. Totals for VMT are given for various air quality analysis years from 2019 to 2040. Note that the VMT values for Box Elder and Tooele Counties are not for the entire county but only that portion of the county designated as non-attainment for a criteria pollutant.

<table>
<thead>
<tr>
<th></th>
<th>2019</th>
<th>2024</th>
<th>2034</th>
<th>2040</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salt Lake City</td>
<td>6,958,685</td>
<td>7,414,776</td>
<td>8,326,959</td>
<td>8,747,097</td>
</tr>
<tr>
<td>Ogden City</td>
<td>1,524,886</td>
<td>1,642,870</td>
<td>1,835,485</td>
<td>1,953,278</td>
</tr>
<tr>
<td>Salt Lake County</td>
<td>31,323,413</td>
<td>33,430,048</td>
<td>38,747,494</td>
<td>41,710,214</td>
</tr>
<tr>
<td>Davis County</td>
<td>8,109,488</td>
<td>8,840,040</td>
<td>9,883,378</td>
<td>10,415,776</td>
</tr>
<tr>
<td>Weber County</td>
<td>5,459,687</td>
<td>5,763,851</td>
<td>6,779,640</td>
<td>7,279,169</td>
</tr>
<tr>
<td>Box Elder County*</td>
<td>2,582,199</td>
<td>2,846,983</td>
<td>3,378,619</td>
<td>3,738,885</td>
</tr>
<tr>
<td>Tooele County*</td>
<td>2,336,172</td>
<td>2,621,722</td>
<td>3,379,647</td>
<td>4,158,310</td>
</tr>
</tbody>
</table>

*non-attainment portion of the county

Peak and Off-Peak Trip Distribution
The modeled VMT and the modeled vehicle speed depend on the number of vehicle trips assigned for each time period (AM, midday, PM, and evening) defined in the travel demand model. The percentage of trips by purpose varies for each time period. The percentages in Table 3 and Table 4 below are based on data from the 2012 Household Travel Survey.
### Table 3
Percent of Trips by Time of Day

<table>
<thead>
<tr>
<th>Trip Purpose</th>
<th>AM</th>
<th>Mid Day</th>
<th>PM</th>
<th>Evening</th>
<th>Grand Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home Based - Other</td>
<td>11%</td>
<td>27%</td>
<td>24%</td>
<td>37%</td>
<td>100%</td>
</tr>
<tr>
<td>Home Based - Personal Business</td>
<td>9%</td>
<td>50%</td>
<td>25%</td>
<td>16%</td>
<td>100%</td>
</tr>
<tr>
<td>Home Based - School</td>
<td>40%</td>
<td>29%</td>
<td>26%</td>
<td>5%</td>
<td>100%</td>
</tr>
<tr>
<td>Home Based - Shopping</td>
<td>2%</td>
<td>43%</td>
<td>26%</td>
<td>29%</td>
<td>100%</td>
</tr>
<tr>
<td>Home Based - Work</td>
<td>35%</td>
<td>18%</td>
<td>28%</td>
<td>19%</td>
<td>100%</td>
</tr>
<tr>
<td>Non-home Based - Non-work</td>
<td>6%</td>
<td>46%</td>
<td>25%</td>
<td>23%</td>
<td>100%</td>
</tr>
<tr>
<td>Non-home Based - Work</td>
<td>13%</td>
<td>49%</td>
<td>29%</td>
<td>9%</td>
<td>100%</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>15%</strong></td>
<td><strong>34%</strong></td>
<td><strong>26%</strong></td>
<td><strong>25%</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

### Table 4
Percent of Trips by Purpose

<table>
<thead>
<tr>
<th>Trip Purpose</th>
<th>AM</th>
<th>Mid Day</th>
<th>PM</th>
<th>Evening</th>
<th>Grand Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home Based - Other</td>
<td>25%</td>
<td>26%</td>
<td>31%</td>
<td>50%</td>
<td>33%</td>
</tr>
<tr>
<td>Home Based - Personal Business</td>
<td>3%</td>
<td>8%</td>
<td>5%</td>
<td>4%</td>
<td>5%</td>
</tr>
<tr>
<td>Home Based - School</td>
<td>19%</td>
<td>6%</td>
<td>7%</td>
<td>1%</td>
<td>7%</td>
</tr>
<tr>
<td>Home Based - Shopping</td>
<td>1%</td>
<td>13%</td>
<td>10%</td>
<td>12%</td>
<td>10%</td>
</tr>
<tr>
<td>Home Based - Work</td>
<td>37%</td>
<td>8%</td>
<td>17%</td>
<td>12%</td>
<td>16%</td>
</tr>
<tr>
<td>Non-home Based - Non-work</td>
<td>7%</td>
<td>25%</td>
<td>18%</td>
<td>18%</td>
<td>19%</td>
</tr>
<tr>
<td>Non-home Based - Work</td>
<td>8%</td>
<td>13%</td>
<td>11%</td>
<td>3%</td>
<td>9%</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>100%</strong></td>
<td><strong>100%</strong></td>
<td><strong>100%</strong></td>
<td><strong>100%</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

**Comparison of Modeled Speeds with Observed Data**

WFRC continues to adjust modeled speeds to improve consistency with samples of observed speeds. Observed speed data were collected in 2013 through a FHWA program known as “Here Data” that uses cell phone signals to track vehicle movements. The observed speeds for freeways and arterials during AM and PM periods of congestion were compared to speeds estimated using the WFRC travel demand model for the 2011 base year. A review of median speeds for the three-county WFRC model area is shown in Table 5. WFRC area modeled speeds are within -3.2% to 3.1% of observed Here Data speeds.
Table 5
WFRC Planning Area Modeled Speeds Compared to Observed Speeds

<table>
<thead>
<tr>
<th></th>
<th>Arterial</th>
<th>Freeway</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AM Peak</td>
<td>PM Peak</td>
</tr>
<tr>
<td>2011 Modeled Speeds</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(mph)</td>
<td>33</td>
<td>30</td>
</tr>
<tr>
<td>2013 Observed Speeds</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(mph)</td>
<td>32</td>
<td>31</td>
</tr>
<tr>
<td>Percent Difference</td>
<td>3.1%</td>
<td>-3.2%</td>
</tr>
</tbody>
</table>

C. Emission Modeling

I/M Programs
Assumptions for the input files for EPA’s MOVES vehicle emissions model include I/M programs in Salt Lake, Davis, and Weber Counties. Box Elder and Tooele Counties do not presently have I/M programs.

VMT Mix
The VMT mix describes how much a particular vehicle type is used in the transportation network. While no longer a required input for the MOVES model as it was for MOBILE6.2, VMT mix is used in several instances to generate the input files required to run the MOVES model. The national default VMT mix found in the MOVES database was used to disaggregate local vehicle type data collected in 2014. The local vehicle type data is collected by UDOT as part of the federal HPMS data collection system and is based on automated counters which classify vehicles based on vehicle length. The UDOT classification is used to calculate control percentages for light duty (LD) vehicles and heavy duty (HD) vehicles for each facility type. The EPA default VMT mix is then applied to disaggregate the two UDOT control percentages into detailed percentages for the thirteen vehicle classes used in MOVES.

Vehicle Weights
Facility specific VMT mix data described above was also used to estimate the average vehicle weight on each facility type. Since vehicle weight affects the rate of re-entrained road dust emissions estimated using the AP-42 method, vehicle weight variations on different facilities will affect the amount of fugitive dust created. The VMT mix for each facility type was used to estimate an average vehicle weight for each facility type with the following results:

<table>
<thead>
<tr>
<th>Facility</th>
<th>Average Vehicle Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urban - Freeway</td>
<td>6,500 lbs, or 3.25 tons</td>
</tr>
<tr>
<td>Urban - Arterial</td>
<td>6,100 lbs, or 3.05 tons</td>
</tr>
<tr>
<td>Urban - Local</td>
<td>3,900 lbs, or 1.95 tons</td>
</tr>
</tbody>
</table>
Post Model Adjustments
For conformity analyses prior to 2000, the WFRC applied post model adjustments to vehicle emission estimates. Emission credits for work trips were modeled for reductions in single occupant vehicle rates based primarily on increased investments in transit service and rideshare programs, and the projected increase in telecommuting. Other less significant post model adjustments were also estimated for incident management, pavement re-striping, and signal coordination. Additional emission reducing programs and projects supported by CMAQ funds such as park and ride lots, bicycle facilities, transit vehicles, intelligent transportation systems (ITS), and intersection improvements have also been implemented.

WFRC believes that these programs have a positive effect in reducing vehicle emissions. In practice, however, WFRC has found that documenting the air quality benefits of these programs can be challenging. WFRC will continue to support these emission reduction programs, but credits from these programs have not been included in this conformity analysis.

MOVES Inputs
The MOVES model is a very data intensive computer program based on the MySQL database software. Through the interagency consultation process the required MOVES inputs reflecting local conditions have been established.

Data files defining local conditions by county and year are required inputs to the MOVES model including vehicle population, emission testing programs, fuel supply, fuel formulation, meteorological conditions, and vehicle age. Vehicle population estimates are based on 2014 registration data by county and the estimated VMT for the same year. This vehicle population to VMT ratio is then applied to model projections of VMT to estimate future year vehicle population. By estimating vehicle population in this way the calculation considers the effects of human population and employment projections, as well as mode choice options that are included in the travel demand model.

Vehicle activity input files for the MOVES model are generated by the WFRC travel demand model using a customized in-house program for this purpose. The MOVES input files required include data for ramp fractions, road distribution, speed distribution, and VMT by vehicle type for each county (Box Elder, Davis, Salt Lake, Tooele, and Weber) and analysis year (PM$_{2.5}$ base year for interim conformity 2008, 2019, 2024, 2034, and 2040) as required for operating the MOVES model.

The input files listed above are read into the MOVES program as database files. The input database folders in Table 6 below contain the database files used for each county and year modeled using MOVES2014a for this conformity analysis. The results of the MOVES model are stored in the output database “Conf17_out” for each county and analysis year identified in Table 6.
**Table 6**  
MOVES Data – Input Database Folders

<table>
<thead>
<tr>
<th>Box Elder</th>
<th>Weber</th>
<th>Davis</th>
<th>Salt Lake</th>
<th>Tooele</th>
<th>Salt Lake City</th>
<th>Ogden</th>
</tr>
</thead>
<tbody>
<tr>
<td>conf17_be_2008w_IN</td>
<td>conf17_we_2008w_IN</td>
<td>conf17_da_2008w_IN</td>
<td>conf17_sl_2008w_IN</td>
<td>conf17_to_2008w_IN</td>
<td>conf17_sc_2008w_IN</td>
<td>conf17_og_2008w_IN</td>
</tr>
<tr>
<td>conf17_be_2019w_IN</td>
<td>conf17_we_2019w_IN</td>
<td>conf17_da_2019w_IN</td>
<td>conf17_sl_2019w_IN</td>
<td>conf17_to_2019w_IN</td>
<td>conf17_sc_2019w_IN</td>
<td>conf17_og_2019w_IN</td>
</tr>
<tr>
<td>Conf17_be_2024w_IN</td>
<td>Conf17_we_2024w_IN</td>
<td>Conf17_da_2024w_IN</td>
<td>Conf17_sl_2024w_IN</td>
<td>Conf17_to_2024w_IN</td>
<td>Conf17_sc_2024w_IN</td>
<td>Conf17_og_2024w_IN</td>
</tr>
<tr>
<td>Conf17_be_2034w_IN</td>
<td>Conf17_we_2034w_IN</td>
<td>Conf17_da_2034w_IN</td>
<td>Conf17_sl_2034w_IN</td>
<td>Conf17_to_2034w_IN</td>
<td>Conf17_sc_2034w_IN</td>
<td>Conf17_og_2034w_IN</td>
</tr>
<tr>
<td>Conf17_be_2040w_IN</td>
<td>Conf17_we_2040w_IN</td>
<td>Conf17_da_2040w_IN</td>
<td>Conf17_sl_2040w_IN</td>
<td>Conf17_to_2040w_IN</td>
<td>Conf17_sc_2040w_IN</td>
<td>Conf17_og_2040w_IN</td>
</tr>
</tbody>
</table>
Road Dust Estimates

In January 2011, the EPA released new guidance for estimating dust emissions from paved roads. These guidelines are published in Chapter 13.2.1 of the AP-42 document. The new formula is

\[ E = k (sL)^{0.91} \times (W)^{1.02} \]

where:
- \( E \) = particulate emission factor (grams/mile),
- \( k \) = particle size multiplier for particle size range and units of interest (for PM\(_{10}\), \( k=1.0 \) and for PM\(_{2.5}\), \( k=0.25 \)),
- \( sL \) = road surface silt loading (grams per square meter - g/m\(^2\)), and
- \( W \) = average weight (tons) of the vehicles traveling the road.

Based on vehicle type counts on roads in the WFRC region, average vehicle weights for local roads, arterials, and freeways are 1.95, 3.05, and 3.25 tons respectively. The silt load (\( sL \)) factor varies by highway functional class and by traffic volume. The default silt load factors found in Table 13.2.1-2 of the AP-42 document are summarized below.

<table>
<thead>
<tr>
<th>Traffic Volume Functional Class</th>
<th>Silt Load (grams/meter(^2))</th>
</tr>
</thead>
<tbody>
<tr>
<td>500-5,000 local roads</td>
<td>0.200</td>
</tr>
<tr>
<td>5,000-10,000 arterial roads</td>
<td>0.060</td>
</tr>
<tr>
<td>limited access freeways</td>
<td>0.015</td>
</tr>
</tbody>
</table>

A precipitation reduction factor is also applied to the above equation using the following expression:

\[ (1 - \frac{P}{4N}) \]

Where:
- \( P \) = number of "wet" days with at least 0.254 mm (0.01 in) of precipitation during the averaging period, and
- \( N \) = number of days in the averaging period (e.g., 365 for annual, 91 for seasonal, 30 for monthly).

The AP-42 guidance recommends a value of 90 precipitation days per year for the Wasatch Front region. Using these values, the precipitation reduction factor yields a value of 0.9384. Combined with the basic road dust emission rate, the net PM\(_{2.5}\) and PM\(_{10}\) road dust factors by highway functional class are as follows:

<table>
<thead>
<tr>
<th>Functional Class</th>
<th>PM(_{10}) Road Dust Rate (grams/mile)</th>
<th>PM(_{2.5}) Road Dust Rate (grams/mile)</th>
</tr>
</thead>
<tbody>
<tr>
<td>local roads</td>
<td>0.429</td>
<td>0.107</td>
</tr>
<tr>
<td>arterials</td>
<td>0.226</td>
<td>0.057</td>
</tr>
<tr>
<td>freeways</td>
<td>0.068</td>
<td>0.017</td>
</tr>
</tbody>
</table>
D. Conformity Determination

The following conformity findings for the 2015-2040 Regional Transportation Plan for the Wasatch Front are based on the transportation systems and planning assumptions described in this report and the EPA approved vehicle emissions model (MOVES2014).

Salt Lake City CO Conformity
The carbon monoxide maintenance plan for Salt Lake City was approved by EPA effective September 30, 2005 as recorded in the Federal Register (Vol. 70, No. 146, August 1, 2005). The maintenance plan defines a motor vehicle emission budget for the years 2005 and 2019 of 278.62 tons/day. Table 7 below demonstrates that projected mobile source emissions are within the emission budget defined in the maintenance plan for the 2019 budget year. The other years listed in Table 7 are in accordance with requirements of the Conformity Rule (40 CFR Part 93) as noted in the table.

From this demonstration it is concluded that the Amended RTP conforms to the applicable controls and goals of the State Implementation Plan (Maintenance Plan) for Carbon Monoxide in Salt Lake City.

<table>
<thead>
<tr>
<th>Year</th>
<th>2019</th>
<th>2024</th>
<th>2034</th>
<th>2040</th>
</tr>
</thead>
<tbody>
<tr>
<td>Budget# (tons/day)</td>
<td>278.62</td>
<td>278.62</td>
<td>278.62</td>
<td>278.62</td>
</tr>
<tr>
<td>emission rate (grams/mile)</td>
<td>5.30</td>
<td>4.86</td>
<td>2.20</td>
<td>1.76</td>
</tr>
<tr>
<td>seasonal VMT</td>
<td>6,958,685</td>
<td>7,414,776</td>
<td>8,326,959</td>
<td>8,747,097</td>
</tr>
<tr>
<td>Projection* (tons/day)</td>
<td>40.67</td>
<td>39.76</td>
<td>20.16</td>
<td>17.02</td>
</tr>
<tr>
<td>Conformity (Projection &lt; Budget?)</td>
<td>Pass</td>
<td>Pass</td>
<td>Pass</td>
<td>Pass</td>
</tr>
</tbody>
</table>

Table 7

<table>
<thead>
<tr>
<th>Salt Lake City - CO</th>
<th>Conformity Determination</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>b</td>
</tr>
<tr>
<td>Year</td>
<td>2019</td>
</tr>
<tr>
<td>Budget# (tons/day)</td>
<td>278.62</td>
</tr>
<tr>
<td>emission rate (grams/mile)</td>
<td>5.30</td>
</tr>
<tr>
<td>seasonal VMT</td>
<td>6,958,685</td>
</tr>
<tr>
<td>Projection* (tons/day)</td>
<td>40.67</td>
</tr>
<tr>
<td>Conformity (Projection &lt; Budget?)</td>
<td>Pass</td>
</tr>
</tbody>
</table>

a - attainment year, b - budget year, c - 10-year rule, d - no budget 5-year rule, e - last year of Plan.

* Federal Register Vol. 70 No. 146, August 1, 2005, Table V-2.

* Projection = Emission Rate x seasonal VMT / 453.6 grams per pound / 2,000 pounds per ton.
Ogden CO Conformity
The carbon monoxide maintenance plan for Ogden City was approved by EPA effective November 14, 2005 as recorded in the Federal Register (Vol. 70, No. 177, September 14, 2005). The maintenance plan defines a motor vehicle emission budget for the years 2005 and 2021 of 75.36 and 73.02 tons/day respectively. Table 8 below demonstrates that projected mobile source emissions are within the emission budget defined in the maintenance plan for the 2021 budget year. The other years listed in Table 8 are in accordance with requirements of the Conformity Rule (40 CFR Part 93) as noted in the table.

From this demonstration it is concluded that the 2015-2040 RTP conforms to the applicable controls and goals of the State Implementation Plan (Maintenance Plan) for Carbon Monoxide in Ogden City.

<table>
<thead>
<tr>
<th>Year</th>
<th>Budget (tons/day)</th>
<th>emission rate (grams/mile)</th>
<th>seasonal VMT</th>
<th>Projection (tons/day)</th>
<th>Conformity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2021</td>
<td>2024</td>
<td>2034</td>
<td>2040</td>
</tr>
<tr>
<td>Budget</td>
<td>75.36</td>
<td>73.02</td>
<td>73.02</td>
<td>73.02</td>
<td>73.02</td>
</tr>
<tr>
<td>emission</td>
<td>6.01</td>
<td>5.40</td>
<td>4.54</td>
<td>2.42</td>
<td>1.88</td>
</tr>
<tr>
<td>seasonal</td>
<td>1,524,886</td>
<td>1,572,080</td>
<td>1,642,870</td>
<td>1,835,485</td>
<td>1,953,278</td>
</tr>
<tr>
<td>Projection</td>
<td>10.10</td>
<td>9.35</td>
<td>8.23</td>
<td>4.90</td>
<td>4.05</td>
</tr>
</tbody>
</table>

| Conformity | Pass | Pass | Pass | Pass | Pass |

*Projection = Emission Rate x seasonal VMT / 453.6 grams per pound / 2,000 pounds per ton.

Ogden PM10 Conformity
Ogden City was designated as a PM10 non-attainment area in August of 1995 based on PM10 violations in 1993 or earlier. Since a PM10 SIP for Ogden has not yet been approved by EPA, it must be demonstrated that Ogden PM10 emissions are either less than 1990 emissions or less than “no-build” emissions. The analysis years 2019, 2024, 2034, and 2040 were selected in accordance with the requirements of 40 CFR Section 93.119(e).

PM10 emissions are present in two varieties referred to as primary and secondary PM10. Primary PM10 consists mostly of fugitive road dust but also includes particles from brake wear and tire wear and some “soot” particles emitted directly from the vehicle tailpipe. The methods defined in the January 2011 version of the EPA publication known as “AP-42” were used to estimate dust from paved roads. Secondary PM10 consists of gaseous tailpipe emissions that take on a particulate form.
through subsequent chemical reactions in the atmosphere. Nitrogen oxides are the main component of secondary PM$_{10}$ emissions with sulfur oxides a distant second.

As summarized in Tables 9a and 9b, emission estimates for the 2015-2040 RTP satisfy the “Build < 1990” test for secondary PM$_{10}$ (NOx precursors) and primary PM$_{10}$ (direct tailpipe particulates, brake wear, tire wear, and road dust) in Ogden City. The 1990 emission estimates based on the Mobile6.2 vehicle emissions model for the 2003 conformity analysis have been updated for this conformity analysis using the MOVES model and the January 2011 AP-42 road dust methodology for consistency with current emission modeling requirements. Specifically, the NOx precursor budget (1990 emission estimate) changes from 4.57 tons/day to 6.92 tons/day, and the direct PM10 budget (1990 estimate) changes from 2.28 tons/day to 1.28 tons/day. The 1990 primary PM$_{10}$ estimate for Ogden City includes emissions from the unpaved access road to the Ogden landfill which was closed in 1998.

For projections of primary PM$_{10}$ emissions, no credit was taken for a number of programs adopted since Ogden City last violated the PM$_{10}$ standard. These particulate reducing programs include covered load ordinances, increased frequency of street sweeping, and reduced application of deicing and skid resistant materials (salt and sand). Documentation of these programs has been provided by Ogden City but the actual benefits of these programs are not included in the emission projections below. Other areas that have estimated the benefit of these programs have found a silt load reduction of over 30% for effective street sweeping programs and a 5% silt load reduction when limiting the amount of sand and salt applied to the roads. Ogden City has also implemented a number of specific projects that have a positive effect in reducing particulate emissions including park and ride lots, storm water improvements, shoulder widening and edge striping, and addition of curb and gutter on several projects.

From this demonstration it is concluded that the 2015-2040 RTP conforms under the Emission Reductions Criteria for areas without motor vehicle emissions budgets for PM$_{10}$ in Ogden City.

Table 9a
Ogden City - PM10 (NOx Precursor)
Conformity Determination

<table>
<thead>
<tr>
<th>Year</th>
<th>2019</th>
<th>2024</th>
<th>2034</th>
<th>2040</th>
</tr>
</thead>
<tbody>
<tr>
<td>1990 Emissions (tons/day)</td>
<td>6.92</td>
<td>6.92</td>
<td>6.92</td>
<td>6.92</td>
</tr>
<tr>
<td>emission rate (grams/mile)</td>
<td>0.93</td>
<td>0.54</td>
<td>0.26</td>
<td>0.21</td>
</tr>
<tr>
<td>seasonal VMT</td>
<td>1,524,886</td>
<td>1,642,870</td>
<td>1,835,485</td>
<td>1,953,278</td>
</tr>
<tr>
<td>Projection* (tons/day)</td>
<td>1.57</td>
<td>0.97</td>
<td>0.52</td>
<td>0.46</td>
</tr>
<tr>
<td>Conformity (Projection &lt; 1990 Emissions?)</td>
<td>Pass</td>
<td>Pass</td>
<td>Pass</td>
<td>Pass</td>
</tr>
</tbody>
</table>

*a - attainment year, b - budget year, c - 10-year rule, d - no budget 5-year rule, e - last year of Plan.

*Projection = Emission Rate x seasonal VMT / 453.6 grams per pound / 2,000 pounds per ton.
### Ogden City - PM10 (Primary Particulates**)
#### Conformity Determination

<table>
<thead>
<tr>
<th>Year</th>
<th>2019</th>
<th>2024</th>
<th>2034</th>
<th>2040</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1990 Emissions (tons/day)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>emission rates (grams/mile)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>total exhaust particulates</td>
<td>0.0335</td>
<td>0.0180</td>
<td>0.0090</td>
<td>0.0079</td>
</tr>
<tr>
<td>brake particulates</td>
<td>0.0605</td>
<td>0.0613</td>
<td>0.0619</td>
<td>0.0628</td>
</tr>
<tr>
<td>tire particulates</td>
<td>0.0131</td>
<td>0.0127</td>
<td>0.0127</td>
<td>0.0128</td>
</tr>
<tr>
<td>road dust particulates</td>
<td>0.2618</td>
<td>0.2620</td>
<td>0.2578</td>
<td>0.2569</td>
</tr>
<tr>
<td><strong>seasonal VMT</strong></td>
<td>1,524,886</td>
<td>1,642,870</td>
<td>1,835,485</td>
<td>1,953,278</td>
</tr>
<tr>
<td><em><em>Projection</em> (tons/day)</em>*</td>
<td>0.62</td>
<td>0.64</td>
<td>0.69</td>
<td>0.73</td>
</tr>
<tr>
<td><strong>Conformity</strong></td>
<td>Pass</td>
<td>Pass</td>
<td>Pass</td>
<td>Pass</td>
</tr>
</tbody>
</table>

**Includes total PM10 exhaust particulates, road dust, tire wear, and brake wear.**

*a - attainment year, b - budget year, c - 10-year rule, d - no budget 5-year rule, e - last year of Plan,*

*Projection = Emission Rate x seasonal VMT / 453.6 grams per pound / 2,000 pounds per ton.*
Salt Lake County PM10 Conformity

The PM\textsubscript{10} SIP for Salt Lake County does not define a budget beyond the year 2003. Therefore, conformity tests are required only for analysis years which are identified in accordance with 40 CFR 93.118. All analysis years after 2003 must meet the 2003 budgets for primary particulates and secondary particulates (see the discussion above under Ogden PM\textsubscript{10} Conformity for an explanation of primary and secondary PM\textsubscript{10} emissions). The State air quality rule R307-310 allows a portion of the surplus primary PM\textsubscript{10} budget to be applied to the secondary PM\textsubscript{10} budget for conformity purposes. However, for the analysis years 2019, 2024, 2034, and 2040, no budget adjustments were necessary.

### Table 10

**Salt Lake County - PM10 Budgets**

<table>
<thead>
<tr>
<th>Direct (Dust) and Precursor (NOx) PM10 Emission Budgets</th>
</tr>
</thead>
<tbody>
<tr>
<td>(tons/day)</td>
</tr>
<tr>
<td>Year</td>
</tr>
<tr>
<td>Total PM10 Budget#</td>
</tr>
<tr>
<td>Direct PM10 Budget to be Traded</td>
</tr>
<tr>
<td>Direct PM10 Budget</td>
</tr>
<tr>
<td>NOx Precursor PM10 Budget</td>
</tr>
</tbody>
</table>

Table 11a and Table 11b below demonstrate that projected mobile source emissions are within the emission budget defined in the SIP. The years listed in Table 10a and Table 10b are in accordance with requirements of the Conformity Rule (40 CFR Part 93) as noted in the tables.

From this demonstration it is concluded that the 2015-2040 RTP conforms to the applicable controls and goals of the State Implementation Plan for PM\textsubscript{10} in Salt Lake County.

### Table 11a

**Salt Lake County - PM10 (NOx Precursor) Conformity Determination**

<table>
<thead>
<tr>
<th>Year</th>
<th>Budget (tons/day)</th>
<th>emission rate (grams/mile)</th>
<th>seasonal VMT (tons/day)</th>
<th>Projection (tons/day)</th>
<th>Conformity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2024</td>
<td>2034</td>
<td>2040</td>
<td></td>
</tr>
<tr>
<td>Budget</td>
<td>32.30</td>
<td>32.30</td>
<td>32.30</td>
<td>32.30</td>
<td></td>
</tr>
<tr>
<td>emission rate</td>
<td>0.66</td>
<td>0.47</td>
<td>0.24</td>
<td>0.20</td>
<td></td>
</tr>
<tr>
<td>seasonal VMT</td>
<td>31,323,413</td>
<td>33,430,048</td>
<td>38,747,494</td>
<td>41,710,214</td>
<td></td>
</tr>
<tr>
<td>Projection</td>
<td>22.77</td>
<td>17.15</td>
<td>10.28</td>
<td>9.41</td>
<td>Pass</td>
</tr>
</tbody>
</table>

Conformity (Projection < Budget?)

- a - attainment year
- b - budget year
- c - 10-year rule
- d - no budget 5-year rule
- e - last year of Plan

*WFRC Memo to Jeff Houk of EPA, April 15, 1994.*

*Projection = Emission Rate x seasonal VMT / 453.6 grams per pound / 2,000 pounds per ton.*
Table 11b
Salt Lake County - PM10 (Primary Particulates**)
Conformity Determination

<table>
<thead>
<tr>
<th>Year</th>
<th>2019</th>
<th>2024</th>
<th>2034</th>
<th>2040</th>
</tr>
</thead>
<tbody>
<tr>
<td>Budget# (tons/day)</td>
<td>40.30</td>
<td>40.30</td>
<td>40.30</td>
<td>40.30</td>
</tr>
<tr>
<td>Emission rates (grams/mile)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>total exhaust particulates</td>
<td>0.0304</td>
<td>0.0201</td>
<td>0.0099</td>
<td>0.0088</td>
</tr>
<tr>
<td>brake particulates</td>
<td>0.0446</td>
<td>0.0493</td>
<td>0.0514</td>
<td>0.0507</td>
</tr>
<tr>
<td>tire particulates</td>
<td>0.0112</td>
<td>0.0115</td>
<td>0.0117</td>
<td>0.0116</td>
</tr>
<tr>
<td>road dust particulates</td>
<td>0.2101</td>
<td>0.2041</td>
<td>0.2002</td>
<td>0.1966</td>
</tr>
<tr>
<td>Seasonal VMT</td>
<td>31,323,413</td>
<td>33,430,048</td>
<td>38,747,494</td>
<td>41,710,214</td>
</tr>
<tr>
<td>Projection* (tons/day)</td>
<td>10.23</td>
<td>10.50</td>
<td>11.67</td>
<td>12.30</td>
</tr>
<tr>
<td>Conformity (Projection &lt; Budget?)</td>
<td>Pass</td>
<td>Pass</td>
<td>Pass</td>
<td>Pass</td>
</tr>
</tbody>
</table>

** Includes total PM10 exhaust particulates, road dust, tire wear, and brake wear.
# WFRC Memo to Jeff Houk of EPA, April 15, 1994.
a - attainment year, b - budget year, c - 10-year rule, d - no budget 5-year rule, e - last year of Plan,
* Projection = Emission Rate x Seasonal VMT / 453.6 grams per pound / 2,000 pounds per ton.

Salt Lake PM$_{2.5}$ Conformity
Davis, Salt Lake, and portions of Weber, Tooele, and Box Elder Counties have been designated as a non-attainment area under the new PM$_{2.5}$ standard (35 µg/m$^3$) that was established in 2006. Work has begun on a PM$_{2.5}$ section of the State Implementation Plan which will establish a motor vehicle emission budget for emissions associated with PM$_{2.5}$. Until the PM$_{2.5}$ SIP is completed and approved by EPA, PM$_{2.5}$ interim conformity requirements apply. EPA interim conformity for PM$_{2.5}$ emissions requires that future NOx emissions (a precursor to PM$_{2.5}$) and primary particulate emissions not exceed 2008 levels.

Table 12a below demonstrates that projected mobile source emissions of NOx (a precursor to PM$_{2.5}$ emissions) in the five-county PM$_{2.5}$ non-attainment area are less than 2008 NOx emissions. Table 12b below demonstrates that projected mobile source emissions of VOC (also a precursor to PM$_{2.5}$ emissions) in the five-county PM$_{2.5}$ non-attainment area are less than 2008 VOC emissions. Table 12c below demonstrates that direct particle emissions of PM$_{2.5}$ in the five-county PM$_{2.5}$ non-attainment area are also less than 2008 direct particle emissions. Direct particle emissions include exhaust emissions of elemental carbon, organic carbon, and sulfates (SO4); and mechanical emissions from brake wear and tire wear.

From this demonstration it is concluded that the RTP conforms under the interim conformity guidelines for PM$_{2.5}$ areas without an approved motor vehicle emissions budget for the Salt Lake PM$_{2.5}$ non-attainment area.
Table 12a
Salt Lake Area# - PM2.5 (NOx Precursor)
Conformity Determination

<table>
<thead>
<tr>
<th>Year</th>
<th>2019</th>
<th>2024</th>
<th>2034</th>
<th>2040</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008 Emissions (tons/day)</td>
<td>97.98</td>
<td>97.98</td>
<td>97.98</td>
<td>97.98</td>
</tr>
<tr>
<td>emission rate (grams/mile)</td>
<td>0.75</td>
<td>0.50</td>
<td>0.26</td>
<td>0.22</td>
</tr>
<tr>
<td>Projection* (tons/day)</td>
<td>41.44</td>
<td>29.69</td>
<td>17.80</td>
<td>16.56</td>
</tr>
</tbody>
</table>

Conformity (Projection < Budget?)
Pass Pass Pass Pass

# Salt Lake PM2.5 Non-Attainment Area includes: Davis, Salt Lake, and portions of Weber, Box Elder and Tooele Counties.

a - attainment year, b - budget year, c - 10-year rule, d - no budget 5-year rule, e - last year of Plan,

* Projection = Emission Rate x Seasonal VMT / 453.6 grams per pound / 2,000 pounds per ton.

Table 12b
Salt Lake Area# - PM2.5 (VOC Precursor)
Conformity Determination

<table>
<thead>
<tr>
<th>Year</th>
<th>2019</th>
<th>2024</th>
<th>2034</th>
<th>2040</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008 Emissions (tons/day)</td>
<td>61.35</td>
<td>61.35</td>
<td>61.35</td>
<td>61.35</td>
</tr>
<tr>
<td>emission rate (grams/mile)</td>
<td>0.54</td>
<td>0.40</td>
<td>0.27</td>
<td>0.25</td>
</tr>
<tr>
<td>Projection* (tons/day)</td>
<td>29.42</td>
<td>23.86</td>
<td>18.75</td>
<td>18.35</td>
</tr>
</tbody>
</table>

Conformity (Projection < Budget?)
Pass Pass Pass Pass

# Salt Lake PM2.5 Non-Attainment Area includes: Davis, Salt Lake, and portions of Weber, Box Elder and Tooele Counties.

a - attainment year, b - budget year, c - 10-year rule, d - no budget 5-year rule, e - last year of Plan,

* Projection = Emission Rate x Seasonal VMT / 453.6 grams per pound / 2,000 pounds per ton.
Table 12c
Salt Lake Area* - PM2.5 (Direct PM Emissions**)
Conformity Determination

<table>
<thead>
<tr>
<th>Year</th>
<th>2019</th>
<th>2024</th>
<th>2034</th>
<th>2040</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008 Emissions (tons/day)</td>
<td>7.33</td>
<td>7.33</td>
<td>7.33</td>
<td>7.33</td>
</tr>
<tr>
<td>emission rate (grams/mile)</td>
<td>0.09</td>
<td>0.08</td>
<td>0.07</td>
<td>0.07</td>
</tr>
<tr>
<td>Projection* (tons/day)</td>
<td>4.94</td>
<td>4.59</td>
<td>4.63</td>
<td>4.84</td>
</tr>
<tr>
<td>Conformity (Projection &lt; Budget?)</td>
<td>Pass</td>
<td>Pass</td>
<td>Pass</td>
<td>Pass</td>
</tr>
</tbody>
</table>

# Salt Lake PM2.5 Non-Attainment Area includes: Weber, Davis, Salt Lake, and portions of Box Elder and Tooele Counties.
a - attainment year, b - budget year, c - 10-year rule, d - no budget 5-year rule, e - last year of Plan,

* Projection = Emission Rate x Seasonal VMT / 453.6 grams per pound / 2,000 pounds per ton.

** Direct PM for interim conformity includes total PM2.5 exhaust particulates, brake wear, tire wear, and road dust.

Salt Lake and Davis County Ozone Conformity
The 1-hour ozone standard was revoked on June 19, 2005. Therefore, a conformity analysis under the 1-hour ozone standard in Salt Lake and Davis Counties is no longer required.

The previous 8-hour ozone standard was 75 ppb. All counties within the Wasatch Front area are in attainment of the previous 8-hour ozone standard.

A new ozone standard of 70 ppb was approved October 2015. Areas of non-attainment for the new ozone standard will be designated by EPA in October 2017. Any designated non-attainment areas will be required to demonstrate conformity for ozone precursor emissions beginning October 2018.
Appendix – 1
Definition of Regionally Significant Projects
Process for Determining Regionally Significant Facilities
for Purposes of Regional Emissions Analysis (see CFR 93.105.2.c.1.ii)

**Background:** 40 FR 93.101 defines “regionally significant project” and associated facilities for the purpose of transportation conformity. The federal definition does not specifically include minor arterials. The following definitions and processes will be used by the Wasatch Front Regional Council (WFRC) and Mountainlains Association of Governments (MAG) in consultation with DAQ, UDOT, UTA, FHWA, FTA, and EPA to determine which facilities shall be considered regionally significant for purposes of regional emissions analysis. It is the practice of the MPO to include minor arterials and collectors in the travel model for the purpose of accurately modeling regional VMT and associated vehicle emissions. The inclusion of minor arterials and collectors in the travel model, however, does not identify these facilities as regionally significant.

1. Any new or existing facility with a functional classification of principal arterial or higher on the latest UDOT Functional Classification Map shall be considered regionally significant (see [http://www.dot.utah.gov/index.php/m=c/tid=1228](http://www.dot.utah.gov/index.php/m=c/tid=1228)).

2. Any fixed guide-way transit service including light rail, commuter rail, or portions of bus rapid transit that involve exclusive right-of-way shall be considered regionally significant.

3. As traffic conditions change in the future, the MPO’s - in consultation with DAQ, UDOT, FHWA, and EPA (and UTA and FTA in cases involving transit facilities) - will consider 1) the relative importance of minor arterials serving major activity centers, and 2) the absence of principal arterials in the vicinity to determine if any minor arterials in addition to those listed in Exhibit A should be considered as regionally significant for purposes of regional emissions analysis.
Exhibit A
Minor Arterials Determined to be Regionally Significant for Purposes of Regional Emissions Analysis

40 FR 93.105(c)(ii), “Consultation – Interagency consultation procedures: Specific processes” specifies that Interagency Consultation shall include a process to identify which minor arterials should be considered as “regionally significant” for the purpose of regional emissions analysis. In consultation with DAQ, UDOT, FHWA, and EPA; and based on inspection and engineering judgment of current traffic conditions; and based on application of the “Process for Determining Regionally Significant Facilities for Purposes of Regional Emissions Analysis” agreed upon by the aforementioned agencies; the WFRC designated eight minor arterials as regionally significant.

Since 2015, all but one of the minor arterials referenced above have been reclassified with the functional type of principal arterial and are therefore by definition regionally significant. The remaining minor arterial to be considered as regionally significant for emissions analysis is listed below. It should also be noted that all collectors, minor arterials, and principal arterials are included in the highway network used in the WFRC travel demand model.

**Davis County**
none

**Salt Lake County**
none

**Weber County**
SR-79 (Hinckley Drive): SR-108 to I-15
Process for Determining Significant Change in Design Concept and Scope for Purposes of Regional Emissions Analysis (see CFR 93.105.2.c.1.ii)

Changes to regionally significant projects may or may not necessitate a new regional emissions analysis. The following definitions and processes will be used to determine what changes to project concept and scope are to be considered significant or not for purposes of regional emissions analysis.

1. Adding or extending freeway auxiliary lanes or weaving lanes between interchanges is not considered a significant change in concept and scope since these lanes are not normally included in the travel model.

2. Adding or extending freeway auxiliary/weaving lanes from one interchange to a point beyond the next interchange is considered a significant change in concept and scope.

3. A change to a regionally significant project defined in the Regional Transportation Plan that does not change how the project is defined in the travel model is not considered a significant change in concept and scope. These changes include but are not limited to lane or shoulder widening, cross section (other than the number of through lanes), alignment, interchange configuration, intersection traffic control, turn lanes, continuous or center turn lanes, and storage lanes.

4. A change to a regionally significant project defined in the Regional Transportation Plan that does alter the number of through lanes, lane capacity, or speed classification as defined in the travel model is considered a significant change in concept and scope.

5. Advancing or delaying the planned implementation of a regionally significant project that does not result in a change in the transportation network described in the travel model for any horizon year (as defined in CFR 93.101) is not considered a significant change in concept and scope.

6. Advancing or delaying the planned implementation of a regionally significant project that does result in a change in the transportation network described in the travel model for any horizon year (as defined in CFR 93.101) is considered a significant change in concept and scope.

7. Project changes not addressed in the above statements will be decided on a case by case basis through consultation by representatives from DAQ, WFRC, MAG, UDOT, UTA, FHWA, FTA, and EPA.
Appendix-2

Box Elder County
Highway and Transit Projects
2040 RTP

Box Elder County
# Box Elder County

## Regionally Significant Project List – January 2015

<table>
<thead>
<tr>
<th>Line</th>
<th>Source</th>
<th>County</th>
<th>Need Phase</th>
<th>Constrained Phase</th>
<th>Capacity Need</th>
<th>Priority Score</th>
<th>Improvement Type</th>
<th>Project Name</th>
<th>Project Description</th>
<th>Cost 2014</th>
<th>Route</th>
<th>Begin</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LRP</td>
<td>Box Elder/Cache</td>
<td>STIP 2016</td>
<td>1</td>
<td>Before 2012</td>
<td>44</td>
<td>Passing Lane</td>
<td>SR-30 MP 97 to MP 101</td>
<td>Add one travel lane in each direction</td>
<td>$5,000,000</td>
<td>0030</td>
<td>97.00</td>
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<td>Box Elder/Cache</td>
<td>3</td>
<td>2</td>
<td>begin by Phase 1</td>
<td>27</td>
<td>Widening</td>
<td>SR□30 MP 95.1 to MP 102.3, SR□38 to SR□23</td>
<td>Add one travel lane in each direction</td>
<td>$32,040,000</td>
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<td>Box Elder</td>
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<td>Passing Lane</td>
<td>I□84 Widen WB from MP 17.3 to MP 19.9</td>
<td>Add one travel lane in WB direction</td>
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<td>Passing Lane</td>
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<td>2</td>
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<td>28</td>
<td>Widening</td>
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<td>Add one travel lane in each direction</td>
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<td>3</td>
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<td>Widening</td>
<td>I□15 Widen from MP 365.7 to MP 372.6, SR□13 to Honeyville (WFRC boundary from MP 365.7 to 368.3)</td>
<td>Add one travel lane in each direction</td>
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<td>Passing Lane</td>
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<td>Box Elder</td>
<td>4</td>
<td>4</td>
<td>37</td>
<td>Widening</td>
<td>I□15 Widen from MP 372.6 to MP 379.5, Honeyville to Tremonton</td>
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<td>$35,535,000</td>
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Appendix-3

Highway and Transit Projects
2040 RTP

Tooele County
Tooele Valley RPO Long Range Plan Highway Projects
February 9, 2015

Phase 1 (To be built by 2025)

Main Street (SR-138) in Grantsville (West St – Center St, and Bowery St – SR-112)
   Widen from 1 lane to 2 lanes per direction

SR-36 (Stockton Town – Skyline Drive)
   Widen from 1 lane to 2 lanes per direction

Tooele Parkway (SR-112 – Droubay Road)
   New collector, 1 lane per direction

Midvalley Highway (SR-138 – I-80)
   New freeway, 2 lanes per direction

Midvalley Highway (SR-36 – Utah Avenue)
   New principal arterial, 2 lanes per direction

SR-112 (Sheep Lane - Utah Ave)
   Widen from 1 lane to 2 lanes per direction

Sheep Lane (SR-112 – SR-138)
   Widen from 1 lane to 2 lanes per direction

SR-138 (SR-112 – Midvalley Highway)
   Widen from 1 lane to 2 lanes per direction

I-80 (SR-36 – SR-201)
   Widen from 2 lanes to 3 lanes per direction

SR-112 (SR-138 – Sheep Lane)
   Widen from 1 lane to 2 lanes per direction

400 West (2000 North – Village Blvd)
   New collector, 1 lane per direction

1000 North (SR-36 – Droubay Road)
   Widen from 1 lane to 2 lanes per direction

Tooele Boulevard (SR-36 – Vine St)
   New collector, 1 lane per direction

Bates Canyon Road (1200 West – 400 West)
   New collector, 1 lane per direction

Village Boulevard (SR-138 – current western terminus)
   New collector, 1 lane per direction
Appendix-4

RTP Amendments
2015 – 2040 Regional Transportation Plan

AMENDMENT NUMBER 4 PROJECT OVERVIEWS

PROJECTS GUIDED BY STATE REQUIREMENTS FOR INCLUSION
IN THE REGIONAL TRANSPORTATION PLAN (RTP)

Projects Seeking Corridor Preservation Funding
The following amendment requests are based on the State requirement that community applicants who are interested in utilizing local Corridor Preservation Funds must first have their project as part of the WFRC’s RTP. Funding for these amendment projects has not yet been determined, but amendment into the RTP is the first step to allow communities to pursue local corridor preservation funds to finance these improvements.

HERRIMAN CITY

1. Operational Improvements on 6000 West
Cost: $2.5 Million
This project calls for a new Phase 2 operational improvement along 6000 West from Herriman Parkway to Herriman Main Street. Benefits of this amendment would include the completion of the road cross-section, including curb, gutter, sidewalks, and storm drain improvements.

2. Operational Improvements on 6400 West
Cost: $1.9 Million
This request is for a new Phase 1 operational improvement project on 6400 West from Herriman Main Street to 13400 South to help reduce traffic congestion and complete the road’s cross-section, including curb, gutter, sidewalks, and storm drain improvements.

3. Operational Improvements on 7300 West
Cost: $2.5 Million
This is a new Phase 3 operational improvement project on 7300 West from Herriman Main Street and Rose Canyon Road. Operational improvements would help complete the road cross-section, including curb, gutter, sidewalks, and storm drainage.

SOUTH JORDAN CITY

4. Widening of Riverfront Parkway
Cost: $1.8 Million
This request is for a new Phase 1 widening project on Riverfront Parkway between 11050 South and 11400 South from three to five lanes. Benefits of this amendment include a consistent cross-section to 11400 South, along with accommodating increased traffic volumes along Riverfront Parkway.

5. Operation Improvements on 2700 West
Cost: $4 Million
This request is for a new Phase 1 operational improvement on 2700 West from 9800 South to 11400 South. The widening of 2700 West will allow for a center turn lane to be added to the road’s cross-section. This, in turn, will improve traffic flow which adding needed curb, gutter, sidewalks, and storm drainage improvements.

COTTONWOOD HEIGHTS

6. Operational Improvements on Bengal Boulevard
Cost: $2.6 Million
This request is for a new Phase 1 operational improvement on Bengal Boulevard from Highland Drive to 2325 East. This would include a roundabout joining both 2300 East and 2325 East.
Benefits would include improved traffic safety and flow, especially for pedestrians traveling to and from a nearby school. This project would complete the road’s cross-section with curb, gutter, sidewalks, and storm drain improvements.

7. Widening of Fort Union Boulevard  
   Cost: $3.6 Million  
   This request is for a new Phase 1 widening project on Fort Union Boulevard between 3000 East and Wasatch Boulevard from two to four lanes. Benefits of this amendment include a consistent cross-section on Fort Union to Wasatch Boulevard, along with addressing increased traffic volumes along Fort Union Boulevard.

MURRAY CITY  
8. Widening of Vine Street  
   Cost: $10 Million  
   This project calls for the widening of Vine Street in Murray City between 900 East and the Van Winkle Expressway as a new, Phase 1 project. Benefits of this amendment include a consistent cross-section on Vine Street, along with addressing increased traffic volumes and the completion of the road cross-section, including curb, gutter, sidewalks, and storm drain improvements.

CLEARFIELD CITY  
9. New Construction of Depot Street  
   Cost: $2 Million  
   This request is for the extension of Depot Street from SR-193 (700 South) to the Clearfield FrontRunner Station (approximately 1250 South). This new Phase 1 project would be a three lane major collector facility providing improved street connectivity, better connection to the transit via the FrontRunner Station and would serve a planned major economic development project creating hundreds of new jobs.

SALT LAKE COUNTY  
10. Operational Improvements on 8000 West  
    Cost: $2 Million  
    This is a new Phase 1 project that would widen 8000 West between SR-201 and 3100 South. The project would realign the intersection at 2700 South, resulting safety and traffic congestion improvements, along with improving local street connectivity.

Projects Seeking Weber County Sales Tax Funding  
The following amendment request is based on the State requirement that community applicants who are interested in utilizing 3rd quarter local sales tax funds must first have their project as part of the WFRC’s Regional Transportation Plan. Funding for this amendment project has not yet been determined, but this first step will allow communities to pursue this avenue of possible revenues to finance these improvements.

CITY OF MARRIOTT-SLATERVILLE  
11. Operation Improvement on 1200 West  
    Cost: $5.6 Million  
    This request is for an extension of a current Phase 1 operational improvement on 1200 West in the City of Marriott-Slaterville from 1200 South to 2700 North. The amendment would provide better traffic flow along 1200 West and would deliver a consistent cross-section including curb, gutter, sidewalks, and storm drain improvements.

MAJOR CAPACITY PROJECTS
Projects Seeking STP Funding
The following amendment requests are major capacity projects that must be included in Phase 1 of the RTP in order to be eligible for Urban Surface Transportation Program (STP) funding administered by the Wasatch Front Regional Council. Funding for these amendment projects has not yet been determined, but this first step will allow communities to pursue this avenue of possible revenues to finance these improvements.

DRAPER CITY
12. Widening of Lone Peak Parkway  
Cost: $6 Million
This request is to move the widening project on Lone Peak Parkway from 12300 South to 12650 South from three to five lanes from Phase 2 to Phase 1. The widening and realignment will provide a consistent cross-section to Bangerter Highway, provide better traffic flow along Lone Peak Parkway, and will support a direct connection to the FrontRunner Station.

TAYLORSVILLE CITY
13. New Construction of I-215 Frontage Road  
Cost: $14.5 Million
This request is to move the new southbound I-215 Frontage Road between 4100 South and 4700 South from Phase 2 to Phase 1. This facility would provide congestion and safety improvement on both 4700 South and 2700 West, along with providing improved access to development between 2700 West and I-215.

KAYSVILLE AND LAYTON CITY
14. Widening of Main Street  
Cost: $3.1 Million
This request is for the widening of Main Street from three to five lanes from 300 West in Kaysville City to Layton Parkway in Layton City. The amendment would be for a new Phase 1 project that would provide a consistent cross-section. The project would address increased traffic volumes along Main Street.

Projects to Utilize TIF Funding
The following amendment requests are major capacity projects that must be included in Phase 1 of the RTP in order to be eligible for the Transportation Investment Fund (TIF) Program administered by the Utah Department of Transportation (UDOT).

UTAH DEPARTMENT OF TRANSPORTATION
15. Bangerter Highway Interchange at 4700 South  
Cost: $44.3 Million
The Utah Department of Transportation is requesting that the current intersection at Bangerter Highway and 4700 South be replaced with a freeway interchange and moved from Unfunded to Phase 1. This improvement will provide a continuous freeway cross-section from 4700 South to I-15. East and West traffic flow will improve, along with an increase in safety.

16. Bangerter Highway Interchange at 13400 South  
Cost: $43.2 Million
The Utah Department of Transportation is requesting that the current intersection at Bangerter Highway and 13400 South be replaced with a freeway interchange and moved from Phase 2 to Phase 1. This improvement will provide a continuous freeway cross-section from 4700 South to I-15. East and West traffic flow will improve, along with an increase in safety.

17. Widening of US Highway 89  
Cost: Currently Funded
This request from the Utah Department of Transportation is to extend the currently funded US-89 project from Farmington City to Antelope Drive to now extend to I-84. The amendment would include the widening from four to six lanes and move this project from the unfunded portion of
the RTP to Phase 1. Benefits of this improvement would help traffic flow along this major arterial, increase safety, and is part of an overall plan to upgrade this facility to a north / south freeway.

For Information Only
Finally, two additional UDOT projects may be funded with the TIF. Neither project requires amendment into the 2015-2040 RTP; both are included for information only.

**UTAH DEPARTMENT OF TRANSPORTATION**

18. **Construction of Interstate 15 Braided Ramp**  
Cost: $130 Million  
The Utah Department of Transportation anticipates the new construction of a northbound braided ramp on I-15 between 9000 South and I-215. An existing operational project is already in the 2015-2040 RTP making an amendment unnecessary. However, the project details are provided for member information. This type of improvement will provide better traffic flow and helps to address increased northbound traffic volumes along I-15. This project will also provide relief to congestion at the 7200 South and 9000 South interchanges.

19. **Construction of SR-201 Extension**  
Cost: $100 Million  
This request is outside the geographic purview of the WFRC Regional Transportation Plan, but is included for information to WFRC members due to its interaction with the 2015-2040 RTP. The project calls for extending and new construction of SR-201 from the SR-201/I-80 connection to the I-80/SR-36 connection. This project is a parallel facility alongside of I-80 and would allow for an emergency bypass, provide better traffic flow, and addresses increased traffic volumes on I-80.
2015 – 2040 Regional Transportation Plan
Amendment Number 3 – November 2016

Amendment #3 proposed projects changes for the 2015-2040 RTP

- S-140 - Bangerter Highway Interchange @ 6200 South - Move from Phase 3 to Phase 1
- S-147 - Bangerter Highway Interchange @ 12600 South - Move from Phase 2 to Phase 1
- S-144 - Bangerter Highway Interchange @ 9800 South - Move from Phase 2 to Phase 1
- S-5 - I-80 from I-215 (East) to Lambs Canyon - Move from Phase 1 to Phase 2
2015 – 2040 Regional Transportation Plan
Amendment Number 2 – May 2016

UTAH DEPARTMENT OF TRANSPORTATION
1. SR-209, 9000 South; From I-15 to 700 East  -  This project is currently in Phase 1 and is listed as an “operational” project. The proposed change is to make it a “widening” project.

2. SR-68, Redwood Road – There are two proposed changes:
   - From 9000 South to 11400 South  -  This project is an operational project and is currently in Phase 2. The proposed change would be to move the project forward to Phase 1
   - From 9000 South to Bangerter Highway  -  This project is a widening of the road and is currently in Phase 3. The proposed change would move the project forward to Phase 1

OGDEN CITY
3. Valley Drive; From 20th Street to SR-39  -  Since funding is being sought through the local option sales tax, this proposed change would be to include this new project in the current RTP.

4. 2nd Street; From Washington Blvd. to Monroe Street  -  Since funding is being sought through the local option sales tax, this proposed change would be to include this new project in the current RTP.

5. 17th Street; From Wall Avenue to Washington Blvd.  -  Since funding is being sought through the local option sales tax, this proposed change would be to include this new project in the current RTP.

6. 26th Street; From Wall Avenue to Washington Blvd.  -  Since funding is being sought through the local option sales tax, this proposed change would be to include this new project in the current RTP.

NORTH ODGEN CITY
7. 2600 North; From Washington Blvd. to approximately Fruitland Drive  -  This is a new widening project, and since funding is being sought, this proposed change would be to include this project in the current RTP.

HARRISVILLE CITY
8. Wall Avenue Extension; North from Larsen Lane. This request is for this project to be removed from the current RTP.

BLUFFDALE CITY
9. 14000 South Road; From 2700 West to 3600 West  -  Since funding is being sought, this proposed change would be to include this new project in the current RTP.
BACKGROUND:
Every four years the Wasatch Front Regional Council (WFRC) prepares and adopts a regional transportation plan (RTP) to identify and implement needed transportation improvements. The WFRC adopted the current RTP in May 2015. While the RTP receives considerable review before being formally adopted, the identification of new funding sources, the determination of the final environmental impact statements, or the rapid development of certain projects, may warrant a change to the RTP. A process has been formally adopted by WFRC to consider periodic revisions.

Recently, the WFRC received requests from the Utah Department of Transportation (UDOT), the Utah Transit Authority (UTA), and Layton City to amend the 2015-2040 RTP to consider the changes listed below.

WFRC staff has analyzed the potential financial implications of including these projects in Phase 1 and determined that there are adequate resources available and potential cost savings from a reprioritization of projects. The plan is able to maintain its fiscal constraint while accommodating construction of these projects in phase I. WFRC is reviewing the air quality impacts to ensure that all applicable air quality conformity requirements are met; results will be provided at the meeting.

The formal public comment period will take place from November 2 to December 1. The WFRC staff, UDOT, UTA, and Layton City representatives will present these amendments to the Regional Growth Committee’s Ogden-Layton Technical Advisory Committee and the Salt Lake County PlanTac on December 16, 2015. The Regional Growth Committee and the Regional Council will review all comments and make a final recommendation in January 2016.

UDOT PROPOSED MODIFICATIONS TO THE 2015-2040 RTP

US-89 Improvements Total Cost: $275 million

The Utah Department of Transportation is making a request to amend the current 2015-2040 RTP for (1) construction of new interchanges at Antelope Drive, Gordon Avenue, Oak Hills Drive and 400 North, (2) construction of frontage roads from Oak Hills Drive to Eagle Way, (3) construction of two overpasses at Crestwood Road and Nicholls Road, (4) potential widening of US-89 from 4 to 6 lanes from just north of the US-89/I-15 interchange in Farmington to Antelope Drive. The 2015-2040 RTP includes the Interchange at 400 North, the overpass at Nicholls Road, and frontage roads from Oak Hills Drive to Nicholls Road in Phase 1. The proposed amendment includes the following modifications to the RTP.

1. **New Construction of US-89 Interchange @ Antelope Drive**
   This project will be moved from Phase 2 to Phase 1.

2. **New Construction of US-89 Interchange @ Gordon Avenue**
   This project will be moved from Phase 2 to Phase 1.

3. **New Construction of US-89 Interchange @ Oak Hills Drive**
   This project will be moved from Phase 2 to Phase 1.

4. **Widening of US-89 from Antelope Drive to I-15 (Farmington)**
   This project will be moved from Phase 3 to Phase 1.
5. **New Construction of US-89 Frontage from Eagle Way to Oak Hills Drive**
   The frontage road project limits will be extended to Eagle Way in the south. This project is currently in Phase 1.

6. **New Construction of Crestwood Road Overpass @ US-89**
   This new project provides connectivity for pedestrians, bicycles, and vehicular traffic across US-89 and is requested to be included in Phase 1.

While these elements are presented as separate projects in the current RTP and proposed amendment, they are part of the preferred alternative developed for the US-89 Environmental Impact Statement (EIS) completed in 1996. Since the completion of the EIS, UDOT has worked to construct elements of the preferred alternative. With this project, there is an opportunity to complete most of the remaining elements of the preferred alternative. The priority components include the construction of the interchanges, the overpasses, and the frontage roads. The widening project is included in the amendment because UDOT believes a favorable bidding climate could result in enough project savings to complete the widening from Antelope Drive to I-15 in Farmington. The widening from 4 to 6 lanes from I-84 to Antelope Drive is not part of this project. The current cost estimate for the US-89 project is $275 million and is funded from UDOT’s Transportation Improvement Fund (TIF).

Project benefits include costs savings due to project efficiencies and future inflation costs, improved traffic flow, delay reductions from the elimination of at-grade intersections, and improved access and connectivity with the development of the frontage road system and overpasses.

**UTA PROPOSED MODIFICATIONS TO THE 2015-2040 RTP**

7. **Ogden-Weber State University Corridor - Transit Project 11**
   Cost: $ 41.0 million
   The Utah Transit Authority is making a request to amend the current 2015-2040 RTP to include 25th Street as the approved alignment in Ogden City with the project mode as a modern Bus Rapid Transit (BRT) system in mixed flow traffic and with exclusive lanes. Currently, the RTP indicates that 30th Street would be the preferred alignment, with the mode undetermined. On July 28, 2015, the Ogden City Council and Mayor adopted Resolution #2015-24 approving a locally preferred alternative (LPA) for the Ogden/WSU Transit Project Study. This project is in Phase 1 of the RTP and the Environmental Assessment is expecting to be completed in 2016/2017.

**Layton City PROPOSED MODIFICATIONS TO THE 2015-2040 RTP**

8. **Gordon Avenue from 1600 East to US-89**
   Cost: $ 28.7 million
   Layton City is coordinating with UDOT on the US-89 improvements from Antelope Drive to I-15 in Farmington. As part of the US-89 project, an interchange at Gordon Avenue will be constructed. This project is a new facility and will connect US-89 with the existing Gordon Avenue at 1600 East in Layton. The construction of Gordon Avenue is a vital component of the US-89 improvement project and will improve safety, connectivity and accessibility for state and local emergency services, citizens and pedestrians and bicyclist. The project is currently in Phase 2, and Layton City is requesting this project be moved to Phase 1 due to the change in the US-89 project. Layton City does not have full funds for this project but is planning on utilizing impact fees and pursuing alternative sources.
PROPOSED ADDITIONS TO THE 2015-2040 RTP

9. I-15 Improvements

Total Cost: $250 million

The entire I-15 project includes the (1) construction of southbound auxiliary lanes from SR-201 to SR-71 (12300 South), (2) construction of an additional southbound general purpose lane from SR-201 to 12300 South (SR-71), (3) upgrade of the I-215/I-15 Interchange, and (4) construction of Managed Motorways along the corridor. The 2015-2040 RTP includes an operational project on I-15 throughout Salt Lake County and an Interchange upgrade at I-215/I-15 in Phase 1. The proposed amendment calls for an additional southbound general purpose lane in Phase 1 from SR-201 to 12300 South (SR-71).

This project was originally programmed for construction in FY 2015-2016. UDOT put the project on hold to evaluate additional alternatives, including advanced ramp metering (Managed Motorways), freeway to freeway ramp meeting, whether to include a GP lane and whether to extend the project to 12300 South (SR-71) from its original terminus of 9000 South (SR-209). The evaluation concluded that the project should move forward with the components outlined above. The current cost estimate for the Salt Lake County I-15 project as outlined above is $250 million and is funded from UDOT’s Transportation Improvement Fund (TIF).

Project benefits include congestion/delay reduction, safety improvements, the elimination of physical choke points, and improved main-line capacity to handle traffic inflow from adjacent facilities including I-80, SR-201, and I-215.

10. I-15 Operational Projects in Weber County

Total Cost: $80 million

11. I-15 Operational Projects in Davis County

Operational improvements can include a variety of different project types including axillary lanes, ramp extensions and technology enhancements. One technology enhancement UDOT is evaluating is the concept of Managed Motorways. Managed Motorways are smart freeways that prevent congestion by continuously monitoring traffic flows and controlling access to the freeway with state-of-the-art ramp metering signal technologies that are more precise and sophisticated than other applications currently in use. Current project estimates for managed motorways in Davis and Weber Counties is $80 million. Project benefits include improved facility capacity, travel reliability and safety performance during heavy traffic demand periods by effectively preventing congestion. Preliminary analysis indicates that freeway facilities with these improvements could see a 20% increase vehicle carrying capacity and a 30% reduction in crashes. UDOT requests that this project be included in Phase 1.
DATE: August 10, 2017
AGENDA ITEM: 6
SUBJECT: Information: Corridor Planning – The Wasatch Front Central Corridor Study (WFCCS)
PREPARED BY: Ted Knowlton

BACKGROUND:
At the August RGC meeting a final update will be provided of the Wasatch Front Central Corridor Study (WFCCS). The “Central” corridor refers to a 3 mile-wide, multi-modal corridor that includes I-15, the original TRAX line and FrontRunner commuter rail. WFCCS is noteworthy for a handful of reasons:

- This is the state’s busiest travelway that also includes a variety of travel modes. Its issues and opportunities – including challenging physical constraints - may be an indication of those that will be faced by other corridors in the future.
- In addition, WFCCS was conducted as a joint effort of four agencies -- Mountainland AOG (Utah County), UDOT, UTA, and WFRC.
- The effort also considered new ways of undertaking a corridor plan, and explored a variety of innovative potential solutions.

This study was recently completed. At the RGC meeting the findings and next steps will be discussed.

RECOMMENDATION:
This item is for information only and no action is required.

CONTACT PERSON:
Ted Knowlton (WFRC) (801) 363-4250 ext. 1201, ted@wfrc.org
DATE:        August 10, 2017
AGENDA ITEM:  7
SUBJECT:      WFRC Funding Opportunities for Local Governments
PREPARED BY:  Wayne Bennion

BACKGROUND:
The Wasatch Front Regional Council administers six programs that provide resources for local governments. These programs include:

- Surface Transportation Program (STP)
- Congestion Mitigation Air Quality (CMAQ)
- Transportation Alternatives Program (TAP)
- Transportation and Land Use Connection (TLC)
- Community Development Block Grant (CDBG)
- Wasatch Front Economic Development District (WFEDD)

A succinct presentation will be given describing these programs to increase awareness of funding and resource opportunities, as well as to encourage efficiency and coordination among the programs for applicants. The process for applying for assistance will also be discussed.

RECOMMENDATIONS:
This is an information item only.

CONTACT PERSON:
Wayne Bennion (WFRC) (801) 363-4230, ext. 1112, wbennion@wfrc.org
DATE: August 10, 2017
AGENDA ITEM: 8
SUBJECT: Air Quality Planning Update
PREPARED BY: Kip Billings

BACKGROUND:

Bryce Bird from the Utah Department of Environmental Quality: Division of Air Quality will discuss key air quality issues affecting the Wasatch Front.

PM 2.5
The Counties of Salt Lake, Davis, and much of Weber, Box Elder and Tooele have been designated by EPA as a serious non-attainment area for PM$_{2.5}$ pollution. Work on the State Implementation Plan (SIP) to reduce and control emissions to meet federal air quality standards for PM$_{2.5}$ is continuing. DAQ is working with EPA to extend the December 2017 deadline for the PM$_{2.5}$ SIP.

Ozone
EPA tightened the ozone standard in 2015 from 75 to 70 ppb. Based on observed ozone levels, many counties in the urbanized areas of Utah were recommended to EPA for non-attainment designation. EPA is scheduled to make those designation recommendations official by October 2017.

RECOMMENDATIONS:
This item is for information only.

CONTACT PERSON:
Kip Billings (WFRC) (801) 363-4230 ext. 1115, kip@wfrc.org