U.S. Department of Transportation

Federal Railroad Administration

FINDING OF NO SIGNIFICANT IMPACT

New York – Vermont Bi-State Intercity Passenger Rail Study

Rutland and Bennington Counties, Vermont Schenectady, Saratoga, Washington, Rensselaer, and Albany Counties, New York

Introduction

The Vermont Agency of Transportation (VTrans) proposes to implement the New York-Vermont Bi-State Intercity Passenger Rail Study (the Project), which consists of various track, crossing, and bridge improvements, as well as construction of three new stations, along portions of Vermont Railway, Pan Am Railway, and CSX active rail lines. The project would allow for a new intercity passenger rail service between Rutland, VT and Albany, NY via Mechanicville, NY, North Bennington, VT, and Manchester, VT.

VTrans prepared a Tier I Environmental Assessment (EA) to evaluate and document whether the Project would have significant effects on the quality of the human environment. The EA provides a corridor-level analysis; subsequent Tier II analyses will examine site-specific impacts once detailed design plans have been developed and the footprints of construction and ground-disturbing activities have been identified.

FRA must comply with the National Environmental Policy Act (NEPA) of 1969 (42 USC § 4321) as the Federal agency providing grant funding to VTrans for the Project. FRA makes this Finding of No Significant Impact (FONSI) based on the information in the EA to comply with NEPA, FRA's Procedures for Considering Environmental Impacts (64 FR 28545, May 6, 1999), and other related laws.

Purpose and Need for the Project

The identification of the purpose and need is essential in a NEPA analysis because it determines the reasonable range of alternatives for the Project. The purpose states clearly why the Project is being proposed and identifies potential anticipated outcomes. The need defines the key problems to be addressed and explains their underlying causes.



Purpose: The purpose of this Project is to study and identify an efficient intercity passenger rail-based

transportation link that will benefit unserved and underserved communities in southwestern Vermont and

eastern central New York.

Need: Southwestern Vermont and eastern central New York have limited transportation options.

Communities within the Project study area have no direct access to the interstate highway system or to a

major airport, limited intercity passenger rail service, and limited intercity bus service. This condition has

been, and continues to be, a hardship for residents and an impediment to economic development in the

region.

The Capital District of New York is a geographic region in upstate New York that is the gateway to the

project study area from the south, both for highway as well as passenger rail access. Albany-Rensselaer

Station provides connections to other services in the northeast and beyond. Schenectady is the secondary

rail hub from which passenger rail service extends north with the Adirondack and Ethan Allen Express

services and west via the Lake Shore Limited. Schenectady is also the highway hub with Interstate 88

(I-88) and I-90 providing access westward and I-890 linking Schenectady and Albany. Access from these

regional centers to the eastern portion of the project study area (the Western Corridor of Vermont) is

lacking.

I-87 provides north-south access to the communities in the New York State portion of the study area,

connecting Glen Falls, Fort Edward, and Saratoga Springs with Albany and Schenectady. The Western

Corridor of Vermont – comprising the eastern half of the project study area – has no equivalent highway

access to these regional centers. US Route 7 – a roadway that has limited four-lane segments but is mostly

a two-lane unlimited access roadway – is the only major north-south connection for those living in the

Western Corridor.

Passenger rail access to the project study area is provided by the Ethan Allen and Adirondack Amtrak

services. The Ethan Allen service terminates in Rutland, VT, but the balance of the Western Corridor of

Vermont has no passenger rail service, nor does Mechanicville, NY.

The lack of adequate access to the eastern half of the project study area not only hinders its residents from

being able to travel within the Vermont portion of the project study area easily, it is also an impediment to

2

FINDING OF NO SIGNIFICANT IMPACT

attracting travelers. This is a significant need because tourism plays a major role in the regional economy. Approximately four million residents in the New York City metropolitan area do not own a personal automobile and rely heavily on intercity passenger rail to travel the region. A rail connection to the Vermont portion of the project study area could provide an extremely attractive option, based on both cost and travel time, for these potential travelers. Connecting the entire study area to this type of buying power could stimulate significant economic development.

Intercity passenger rail improvements are needed within the project study area for the following reasons:

- Improved access to the eastern portion of the project study area from the south beyond the project study area is essential to support the tourism industry, a key economic engine;
- Access from the eastern portion of the project study area to/from commercial centers,
 educational, medical, and cultural facilities in the project study area is currently not an option by
 rail; and
- Highway access within the eastern portion of study area is limited to a single roadway that operates as a local road for substantial portions of its length.

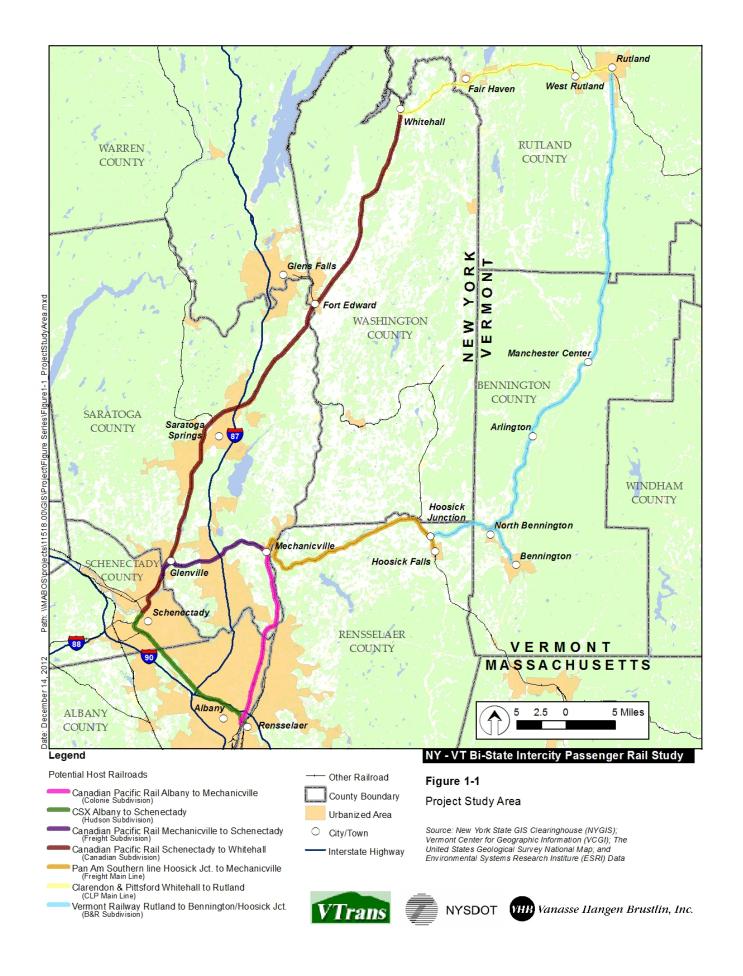
Study Area

The Project study area covers 137 miles along sections of Vermont Railways, Pan Am Railways, and CSX rail lines, through Rutland and Bennington Counties in Vermont, and Schenectady, Saratoga, Washington, Rensselaer, and Albany Counties in New York (combined population of approximately 1,000,000 as of 2010). Rutland, VT serves as the north terminus and Albany, NY serves as the south terminus of the Project study area.

The EA examined existing rail corridors within the Project study area for potential intercity passenger rail service options, including:

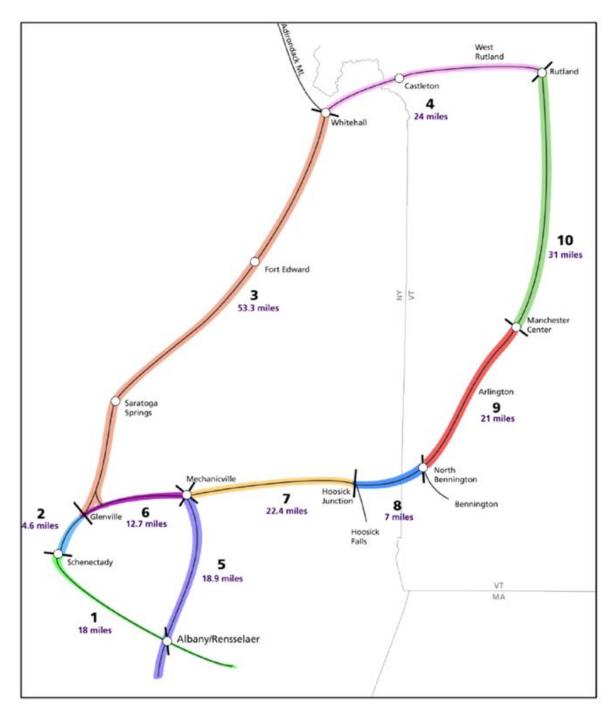
- Vermont Railway lines that extend between Rutland and Bennington, VT, and continue to Hoosick Junction, NY;
- Pan Am Railways' southern main line between Hoosick Junction and Mechanicville, NY;
- Canadian Pacific Rail lines between Albany and Mechanicville, Mechanicville and Schenectady, and Schenectady and Whitehall, NY;

- CSX rail lines between Albany and Schenectady, NY; and
- Clarendon and Pittsford rail lines between Whitehall, NY and Rutland, VT.





The study area was segmented by rail subdivision in order to develop cost-estimates and examine environmental impacts for different alignments, as shown in the figure below. There are a total of nine segments (Segment 5 was eliminated).



Alternatives

VTrans undertook a two-phase alternatives evaluation in the EA to identify and screen service alternatives to address the purpose of and need for the proposed NY-VT Bi-State Intercity Passenger Rail service.

Phase One: VTrans developed six alternatives to address mobility and transportation needs in the project study area through a review of previous studies and planning as well as a collaborative workshop. The initial alternatives were broadly defined to ensure that as many potentially feasible alternatives as possible were considered and evaluated. All six of the alternatives use existing, active rail lines within the project study area. These rail lines are primarily used for the movement of freight. VTrans selected two route alternatives from the Phase One Screening to continue into the Phase Two Screening and the next steps of project development for the reasons explained below.

The six alternatives evaluated in Phase One included:

- 1. Alternative 1, No-Build Alternative;
- 2. Alternative 2, Loop Service;
- 3. Alternative 3, New Service to Manchester, VT;
- 4. Alternative 4, New Service to Rutland, VT;
- 5. Alternative 5, Re-routed Ethan Allen Service; and
- 6. Alternative 6, Split Shuttle Service.

The Phase One Screening process included a determination of the basic feasibility of each alternative, and considered the four categories of project goals:

- 1. Rail access and mobility;
- 2. Transportation efficiencies;
- 3. Economic/sustainable development; and
- 4. Environmental quality.

The following table illustrates the major positive and negative impacts for each of the Phase One alternatives.



Phase One Evaluation Summary

Criterion	Alt. 1	Alt. 2	Alt. 3	Alt. 4	Alt. 5	Alt. 6
Rail Access and Mobility						
Improve regional mobility	•			•		•
Travel time savings	•	•		•		•
Attractive frequency of service	•	•		•		•
Transportation Efficiency						
Viable intermodal connections	•			•	•	•
Cost efficient	•	•	•		•	O
Maximize use of existing infrastructure		•	•	•	•	•
Minimize impacts on existing operations post-construction		•	•	•	•	O
Minimize impacts on existing operations during construction						
Economic/Sustainable Development						
Support Smart Growth and Economic Development	•	•		•		•
Environmental Quality						
Minimize potential impacts						
Result in positive impacts						

^{• =} positive; ○ = potential negative impact; ■ = no/neutral impact

From the initial set of alternatives, VTrans recommended advancing Alternatives 4 and 5 to the Phase Two Screening process.

VTrans selected these two alternatives for the Phase Two analysis because they exhibit the greatest potential to satisfy the project Purpose and Need. The No-Build Alternative would not meet the project Purpose and Need; however, it was advanced to serve as a baseline against which to evaluate the build alternatives.

Phase Two: The purpose of the Phase Two screening process was to identify the Preferred Alternative for the Project. For the Phase Two evaluation, VTrans defined the Build Alternatives to a greater level of detail. VTrans analyzed the following for the No-Build Alternative and the two Phase Two Build Alternatives:

- ➤ Capital costs;
- ➤ Operations and maintenance costs;
- ➤ Ridership estimates;
- ➤ Operational analysis/operating plans; and
- > Review of environmental impacts.

Based on the compiled data and analyses, VTrans performed a detailed assessment of each alternative as part of the Phase Two screening. VTrans evaluated the alternatives against each of the 25 criteria

described below and scored them on a scale of +2 (alternative is expected to have a highly favorable impact) to -2 (alternative is expected to have a highly unfavorable impact) in each category. A brief description of why the alternatives scored as they did is included. The scores for each of the criteria are then summarized to produce a composite score for each goal and a best fit alternative is identified for each goal. The alternatives advanced into Phase Two were:

- ➤ The No-Build Alternative;
- ➤ Alternative 1: New Service to Rutland, VT (Alternative 4 in Phase One); and
- ➤ Alternative 2: Rerouted Ethan Allen Service (Alternative 5 in Phase One).

Phase Two Summary of Evaluation Scores

	No-Build	Alternative 1	Alternative2					
Goal 1: Extend Intercity Passenger Rail Access and								
Improve Mobility								
Directness to Key Regional Destinations	0	+2	+1					
Transfers Required	0	+2	+1					
Cumulative Travel Time	0	0	0					
Availability of Intermodal Connections	0	+2	+1					
Frequency/Ridership /Population	0	+2	+1					
Goal 1 Total:	0	+8	+4					
Best Fit Alternative:		Χ						
Goal 2: Support Economic Development and	ł							
Sustainable Development								
Accessibility/Connections	0	+2	+2					
Smart Growth	0	+2	+1					
Goal 2 Total:	0	+4	+3					
Best Fit Alternative:		Χ						
Goal 3: Maximize Transportation Efficiencies	S							
Cost Evaluation	0	-2	+2					
Construction Impacts on Operations	0	-1	-1					
Sustainability/Funding Opportunities	0	-1	0					
Additional Capacity	0	+2	+1					
Reliability/Flexibility	0	+2	+1					
Impacts to Rail and Bus Operations	0	+2	+1					
Goal 3 Total:	0	+2	+4					
Best Fit Alternative:			Χ					
Goal 4: Protect Environmental Quality								
Environmental Impacts	0	-1	-1					
Goal 4 Total:	0	-1	-1					
Best Fit Alternative:		Χ	Χ					
TOTAL:	0	+13	+10					
Preferred Alternative:		Χ						

Selected Alternative

Based on the Phase Two evaluation, VTrans recommended Alternative 1 as the Preferred Alternative for

further development, and FRA agreed with this recommendation. The Preferred Alternative entails one

new round trip per day. It provides the greatest transportation benefit by adding new service along the

Western Corridor without eliminating or reducing service on other routes.

The No-Build Alternative was not selected because it would not meet the purpose and need of the Project.

Communities in southwestern Vermont and eastern central New York would continue to be unserved or

underserved by intercity passenger rail service.

Benefits of the Selected Alternative

Implementation of the Build Alternative would be of immediate benefit to both intercity passenger rail

and freight. It provides the greatest transportation benefit by adding new service along the Western

Corridor and increasing ridership without eliminating or reducing service on other routes. The Project

also provides safety and operational benefits for freight rail by replacing old, jointed rail with new

continuously-welded rail, adding side tracks, and rehabilitating and gating public grade crossings.

Environmental Consequences

Based upon the EA, incorporated by reference with its appendices in this FONSI in its entirety, FRA has

concluded that the Selected Alternative, including the mitigation measures for unavoidable impacts,

would have no foreseeable significant impact on the quality of the human environment. FRA concurs with

the recommendation of VTrans, and finds the Selected Alternative is best able to achieve the Project

purpose and need without significant environmental impacts and by minimizing Project costs.

The potential of the Project to result in environmental impacts is summarized below.

Transportation: One additional intercity passenger train would be added in the Project study area.

Rail: There are currently three Amtrak regional routes providing intercity passenger service in the project

study area:

FINDING OF NO SIGNIFICANT IMPACT

■ Empire Service – Providing daily service between New York City, NY and Buffalo, NY with continuing service to Niagara Falls, NY and Toronto, Canada with stops in Albany-Rensselaer and Schenectady, NY in the project study area.

Adirondack Service – Providing daily service between New York City, NY and Montreal,
 Canada via Albany with stops in Schenectady, Saratoga Springs, Fort Edward-Glens Falls and
 Whitehall, NY in the project study area.

Ethan Allen Express – Providing daily service between New York City, NY and Rutland, VT via Albany, NY with stops in Schenectady, Saratoga Springs, Fort Edward-Glens Falls, NY and Castleton, VT in the project study area.

The Project would facilitate an increase in ridership over time that would in turn increase intercity passenger rail viability as ridership revenue is directly tied to operating subsidies. The Project would also provide safety and operational benefits for freight rail by replacing old, jointed rail with new continuously-welded rail, the addition of side tracks, and rehabilitation and gating of public grade crossings.

FRA finds that the proposed Project's rail infrastructure improvements would accommodate the proposed additional round trip of passenger service and minimize freight delays throughout the project study area. The proposed infrastructure improvements would not impact the existing rail transportation systems along any of the segments.

Motor Vehicles: The intersections adjacent to the stations within the project study area would experience relatively minor traffic impacts, which could be mitigated by signal optimization. Capacity improvements such as lane widening and turning lanes would be unnecessary.

The Project is expected to have a positive safety impact on motor vehicles, bicyclists, and pedestrians through the gating of public grade crossings.

FRA finds that the Project would not result in significant impacts to motor vehicle traffic and would result in beneficial effects due to safety measures implemented at at-grade crossings.

<u>Air Quality:</u> The air quality study included a mesoscale analysis that estimates the area-wide emissions of Volatile Organic Compounds (VOCs), Nitrogen Oxides (NO_{X)}, Particulate Matter (PM), and Carbone Monoxide (CO) emissions. The mesoscale analysis evaluated the changes in emissions based upon changes

FINDING OF NO SIGNIFICANT IMPACT

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December 2014

in the average daily traffic volumes, roadway lengths, and vehicle emission rates. To demonstrate

compliance with U.S. Environmental Protection Agency (EPA) criteria, the air quality study must show the

proposed project's change in daily (24-hour period) VOC and NO_X emissions. Using EPA recommended air

quality modeling techniques, VTrans calculated the total pollutant emissions for the difference between

No-Build and the Proposed Action Alternative. The mesoscale analysis calculated the 2030 mobile source

emissions for the estimated Vehicle Miles Traveled (VMT) reduction.

The air quality study demonstrated that the Selected Alternative would result in a reduction in VOC,

NO_X, PM, and CO emissions, as compared to the No-Build Alternative. The Selective Alternative is

anticipated to provide an overall benefit to air quality through the improved operability of freight and

passenger rail service and by offering an alternative to motor vehicle travel.

FRA finds that the Project would not result in significant impacts to air quality.

Noise: There is a potential for noise impacts in Segments 6, 7, 8, 9, and 10. Noise impacts arise from the

increase in passenger rail frequency, and include locomotive noise, grade crossing noise, siding tracks,

and station use. The potential for noise impacts is the greatest in Segments 8, 9, and 10. Several segments

would not have the potential for moderate or severe noise impacts along main line sections because there

are no grade crossings, new special track work, or new stations proposed.

Future Tier II analysis would identify specific locations for and types of noise mitigation measures and

would consider noise mitigation depending on the need, feasibility, reasonableness, and effectiveness of

potential options.

FRA finds that the Project would not result in significant impacts to noise, and appropriate mitigation

strategies identified during Tier II analysis would be employed to minimize these impacts.

Vibration: There is a potential for vibration impacts in all segments both during and after construction of

the rail improvements. For mainline segments, there would be potential vibration impact up to 94 feet

from the near track for Category 2 land uses and up to 66 feet for Category 3 land uses. At new station

locations there may be vibration impacts up to 20 feet from the near track for Category 2 land uses and up

to 29 feet from the near track for Category 3 land uses. At locations where new special track work is

FINDING OF NO SIGNIFICANT IMPACT

introduced, vibration impacts may extend up to 200 feet from the near track for Category 2 land uses and

up to 183 feet for Category 3 land uses.

Future Tier II analysis would identify specific locations for and types of vibration mitigation measures in

accordance with FTA guidance. Vibration mitigation would minimize adverse effects from the Project at

sensitive locations. The effectiveness of specific vibration mitigation measures is dependent on several

factors such as the component design, installation techniques, axle loads of the trains, and frequencies of

concern.

FRA finds that the Project would not result in significant vibration impacts, and appropriate mitigation

strategies identified during Tier II analysis would be employed to minimize these impacts.

Water Resources: VTrans considered impacts to surface water and groundwater resources only for those

areas where project actions could have a direct impact through alteration of drainage patterns or could

cause discharges to water resources. The Project is not expected to increase the impervious area footprint

or alter the terrain in a significant manner; no indirect impacts to water quality are expected.

Rail improvements may require that certain segments of track and their associated culvert and bridge

crossing(s) be modified. Crossings with potential upgrades would need to be evaluated on case-by-case

basis and, at a minimum, the work would need to comply with all state and/or federal permit requirements

and recommendations regarding hydraulic capacity, aquatic organism passage, and water quality.

There is a negligible potential for impacts to surface water or groundwater resources in any of the segments

because either no infrastructure improvements are planned or the planned infrastructure improvements

would be within the existing right-of-way (ROW) and would not permanently impact these resources.

A future Tier II project sponsor would minimize any impacts from in-stream bank work and construction

activity through the use and enforcement of National Pollutant Discharge Elimination System (NPDES)

permits.

Permanent Best Management Practices (BMPs) installed following construction (e.g., permanent seeding

and use of native vegetation) would further reduce impacts to water resources. The Project would not

have any impact on groundwater resources, such as existing wells or borings.

FINDING OF NO SIGNIFICANT IMPACT

FRA finds the construction and operation of the Project would not adversely impact water resources as

long as appropriate BMPs are implemented and applicable state and federal permitting requirements are

fulfilled.

Wetlands: The Project is unlikely to impact wetlands extending into or adjacent to Segments 1, 3, and 4

because no infrastructure improvements are planned in those areas. The Project is unlikely to impact

wetlands extending in or adjacent to Segments 2, 6, 7, 8, 9, and 10 unless infrastructure improvements

extend outside of the existing rail ROW or surface water crossings are modified in such a way as to change

the hydraulic opening. Future Tier II analysis would identify mitigation measures and necessary permitting

where infrastructure improvements would extend outside of the existing ROW and into adjacent wetlands

and/or modifications to surface water crossings would change the hydraulic opening. A subsequent Tier II

NEPA analysis would address these potential impacts to wetlands once project plans are more fully

developed.

FRA finds that the Project would not result in significant impacts to wetlands as long as any necessary

mitigation measures and permits identified during Tier II analysis are followed

Floodplains: Each segment is within or adjacent to numerous mapped 100-year and 500-year floodplains

in many towns and cities within the project study area. Electronic floodplain data is not available for

several towns; it would be necessary to review hard copies of Federal Emergency Management Agency

floodplain maps for these towns to determine the extent of any floodplains located within the segments

comprising the selected alternative.

At the current level of design, the Project is in compliance with Executive Order (EO) 11998, Floodplain

Management. Future Tier II analysis would re-evaluate potential impacts to and from floodplains once the

project design identifies specific rail improvements and locations. No significant impacts to floodplains

are expected, and any impacts would be mitigated in accordance with National Flood Insurance Program

criteria and the EO for development within flood prone areas.

Ecological Systems: Wildlife habitat is known to occur within 250 feet of Segments 1, 9, and 10 within

the project study area, and wildlife corridors were identified along Segments 3, 4, 9, and 10. VTrans

identified one Vermont Rare and Irreplaceable Natural Area (RINA), Emerald Lake near Segment 10.

FINDING OF NO SIGNIFICANT IMPACT

The Project may impact wildlife habitat and corridors and the Vermont RINA if work is required outside

the existing rail footprint to modify existing tracks or construct new tracks or stream or road crossings.

Work within the existing ROW is unlikely to impact these wildlife habitats and corridors. A field

investigation would occur during Tier II analysis if any work is proposed outside the ROW and habitat or

corridors are proximate to the ROW, to identify any potential impacts and, if necessary, design

appropriate impact avoidance or minimization measures.

FRA finds that the Project would not result in significant impacts to ecological systems.

Threatened and Endangered Species: Federal- or state-protected species and habitat have been recorded

within 250 feet of each segment within the project study area. Project work within the existing ROW is

unlikely to impact threatened or endangered species or their habitat for all segments except Segment 10.

One federally listed species (Indiana bat) and thirteen state-listed species (ten unspecified plants and three

unspecified animals) have been recorded near the rail bed in Segment 10. During future Tier II analysis,

the project sponsor would coordinate with the Vermont Nongame and Natural Heritage Program to

confirm the protected species type and habitat requirements. A field investigation may be conducted

during preliminary or final design to identify any potential impacts and, if necessary, design appropriate

impact avoidance or minimization measures.

Future Tier II analysis would confirm records of federal- or state- listed species and their habitat along

each segment of the Selected Alternative with the U.S Fish & Wildlife Service (USFWS) or National

Marine Fisheries service (NMFS) and the New York Department of Environmental Conservation

(NYDEC) and the Vermont Agency of Natural Resources (ANR) to determine if listed species or

designated critical habitat are actually present within the rail corridor. If present, coordination with the

agencies will be required to identify potential impacts and appropriate avoidance measures

FRA finds the Project would not result in significant impacts to threatened and endangered species.

Land Use: There would be no change to land use along the alignment of the Selected Alternative, because

all infrastructure improvements would occur within the existing ROW. Land use in the vicinity of the new

stations could change if property acquired for new parking lots is outside of the existing ROW and the

acquired property is currently used for some purpose other than parking. The planned parking lots are

FINDING OF NO SIGNIFICANT IMPACT

small, comprised of 50 spaces each, and each may require approximately 20,000 square feet (less than

½ acre) of land acquisition. Detailed consideration of land use and development potential in the vicinity

of the proposed new stations would be prepared, as necessary, as part of future Project Level Tier II

analyses of the proposed new stations.

FRA finds the Project would not result in significant impacts to land use.

Socio-Economic: The Selected Alternative is consistent with Bennington and Rutland Counties' regional

planning policies aimed at achieving economic growth. Specifically, Rutland County's Rutland Regional

Plan cites "infrastructure gaps" as unmet. The Rutland Regional Plan identifies the upgrade and

expansion of railway services (in addition to airport services) as a main driver of economic growth. This

policy is a continuation of the policy promoting rail network improvements outlined in the Rutland

Region Economic Development Strategy.

Though the Bennington County Regional Plan does not cite the importance of improving rail service as a

means of achieving economic development, it does state the importance of the region's ability to provide

the critical infrastructure and amenities that will support businesses. The 2008 Bennington County

Regional Transportation Plan Update, however, closely relates to the project and includes reference to a

1998 Position Statement that "...it is both feasible and appropriate to undertake the improvements

necessary to restore effective passenger and freight rail service to the region" and references the 2006

Vermont State Rail and Policy Plan Goals, including "Foster economic development and benefit local

industry." The Bennington County Regional Transportation Plan Update also specifically indicates that

stops Manchester and North Bennington are considered "ideal" in the provision of passenger service to

the Bennington region. The Project is anticipated to support these regional policies concerning

socioeconomic conditions.

The Project is intended, in part, to promote socioeconomic development within the project study area.

Some temporary direct impacts would result during the construction phase in the form of jobs and

resultant economic activity in local communities. This would be a temporary effect for the construction

period only and is not likely to substantively affect the local or regional economy.

FINDING OF NO SIGNIFICANT IMPACT

No significant and adverse impacts to socioeconomic conditions are expected to result from the Project.

The Project is expected to support regional planning initiatives, particularly the goal in the Rutland

Regional Plan to enhance rail service throughout the region as a means of supporting economic

development.

FRA finds the Project would not result in significant socio-economic impacts.

Environmental Justice (EJ): VTrans identified EJ communities adjacent to the rail ROW in Segments 1

and 2, none of which are located near the proposed new stations. Additional EJ communities are present

in the counties comprising the project study area, but are not proximate to the rail corridors. The EJ

communities identified are expected to benefit from the Project as a result of increased access to goods,

services, employment, and transportation.

The new station proposed in Manchester, VT is least likely of the three proposed stations to provide a

benefit to EJ communities, as no EJ communities are located nearby. However, the proposed new station

in North Bennington, VT may be of benefit to EJ communities identified in the nearby towns of

Woodford, VT, Glastenbury, VT, and Searsburg, VT by providing new rail access to the Capital District.

Based on the current level of project design, VTrans and FRA do not anticipate any direct adverse effects

to EJ communities. A future Tier II analysis would evaluate all segments, particularly with regard to

potential effects on the physical environment (such as noise), and potential effects associated with

acquisition and relocation, community cohesion, and potential temporary or construction-related effects.

In addition, socio-economic data may be available at the Census Tract level when Tier II site-specific

evaluations of the three proposed new stations are performed, allowing the inventory of EJ communities

identified during Tier I to be updated. The Tier II efforts would include an appropriate public outreach

component. Should impacts to EJ communities be identified in future Tier II analysis, particularly impacts

associated with changes to the physical environment (e.g., air quality and noise), FRA and VTrans

anticipate that such impacts could be avoided or mitigated, thereby eliminating the potential for

disproportionately high and adverse direct impacts to EJ communities.

FRA finds the Project would not result in significant impacts to EJ communities.

FINDING OF NO SIGNIFICANT IMPACT

Public Health and Safety: Under the Selected Alternative, the Project would upgrade tracks in

Segments 2, 6, 7, 8, 9, and 10 to FRA Class 3 (at a minimum), allowing for an operating speed of up to

59 mph where geometry and operating rules allow. There would be no changes to tracks in Segments 1, 3,

or 4. There would be no new at-grade crossings. No closures of at-grade crossings are planned, and

existing crossings would be upgraded where necessary to meet applicable FRA standards. Although train

speeds may increase on the upgraded tracks, the grade crossing improvements are expected to maintain or

improve public health and safety along these rail lines by reducing the potential for vehicle/train

collisions.

The three proposed new stations (Manchester, VT, North Bennington, VT, and Mechanicville, NY) would

be designed to Americans with Disability Act (ADA) standards and include safety features to protect the

public from vehicle traffic and unauthorized access to the tracks.

FRA finds the Project would not result in significant impacts to public health and safety.

Cultural Resources/Historic Properties: Eighteen individual properties or districts listed in the National

Register of Historic Places (NRHP) are located within or adjacent to the project study area. Ten are

historic districts, concentrated primarily in municipal centers that developed as major depots along the

railroad lines during the 19th century. Individually listed properties vary considerably, and include

residential properties, cultural landscapes, municipal buildings, canals, and industrial structures. All of the

historic properties known along Segments 1, 2, 3, 4, 6, 7, 8, 9, and 10 are outside the ROW, and are

therefore unlikely to be impacted by the project.

There is a relatively low potential for intact archaeological resources within the disturbed railroad ROW.

The potential presence of such resources is greater for any aspect of the project study area outside of the

ROW, including locations where stations would be expanded or new passenger platforms and connections

constructed, and at construction staging areas. Segments located along major waterways and historic

canals are expected to have a high level of archaeological sensitivity associated with prehistoric and

historic period activities.

The return of or increase in rail traffic along the corridor, and any associated rehabilitation of former

railroad depots and stations, is expected to have a net positive effect on cultural resources. The location of

FINDING OF NO SIGNIFICANT IMPACT

the project within existing rail corridors limits the potential to disturb underground archaeological

resources. Potential direct impacts to cultural and archaeological resources would be minimal because the

rail line passes through previously disturbed areas and physical intersection with such resources would be

largely avoided. Future Tier II analysis would include a more extensive assessment of potential impacts to

archaeological resources and the built environment once project plans are more fully developed, including

analysis of components such as station improvements, passenger platform construction, and staging areas

that fall outside of the railroad ROW. Tier II analysis would include consultation, as necessary, with the

New York and Vermont State Historic Preservation Officers (SHPOS) in accordance with Section 106 of

the National Historic Preservation Act to identify historic properties and address any adverse impacts.

FRA finds the Project would not result in significant impacts to cultural resources.

<u>Section 4(f) and Section 6(f) Resources:</u> Eighteen Section 4(f)-protected properties are located within the

project study area, of which twelve are designated recreational uses and six are wildlife refuges

(designated as preserves, wildlife management areas, or similar). Recreational activities or wildlife

functions at nearby Section 4(f) properties would not be affected by the project and changes in noise

levels that may result from the project are not anticipated to conflict with active recreational use. There

would be no direct or constructive use of recreational Section 4(f) or Section 6(f) resources associated

with improvements to the existing track infrastructure.

FRA finds the Project would not result in significant impacts to section 4(f) and 6(f) resources.

Energy: The Selected Alternative would minimally change energy consumption patterns. The existing

Ethan Allen service runs 73,000 annual train miles. If new service is added between Albany and Rutland,

annual train miles would increase to 85,410.

FRA finds the Project would not result in significant impacts to energy resources.

Visual and Aesthetic Resources: The NY-VT Bi-State Intercity Passenger Rail service would use

existing active rail lines for its entire length. New construction in certain segments would be limited to

sidings to allow trains to pass, new double track, upgraded track, and replaced bridges, all within the

existing ROW. New stations would be constructed in Manchester and North Bennington, VT and

FINDING OF NO SIGNIFICANT IMPACT

Mechanicville, NY. None of these activities are expected to substantively change the visual and aesthetic environment of the Project study area. The existing view shed of the rail corridor from the surrounding

land uses would be maintained under the Selected Alternative.

FRA finds the Project would not result in significant impacts to visual and aesthetic resources.

Construction Impacts: Construction impacts could not be fully identified or evaluated at the Tier I stage

because detailed engineering design has not been completed. Construction activities may result in

localized, short-term impacts to certain resources and would be addressed in future Tier II analyses. The

following is a summary of impacts generally expected from construction activities:

Air quality may be impacted by exhaust emissions from construction equipment and dust

generated by earthmoving equipment or wind. Construction contractors would be required to

comply with state and local emission control regulations or ordinances for construction

equipment, and implement dust control measures (e.g., watering) during construction activities.

• Traffic delays may result from construction activities, in particular where grade crossings (public

at-grade or bridge crossings) are being upgraded or replaced. Detours would be used to direct

traffic around construction zones.

• Noise would be generated by construction equipment engines, pile drivers or jackhammers, and

drilling rigs. Construction contractors would be required to comply with state and local noise

management regulations or ordinances for construction activities.

• Vibration would be generated by construction pile drivers, jackhammers, and drilling rigs.

Construction contractors would be required to implement vibration management measures during

construction activities.

Water resources may be affected by stormwater runoff from construction sites. Construction

contractors would be required to comply with NPDES requirements for stormwater management,

including implementation of BMPs to prevent or minimize impacts to water resources.

The FRA finds that the Project's construction impacts would not result in any significant short-term

impacts to environmental resources when applicable regulations and ordinances are complied with,

appropriate mitigation measures are used, and all required permits are obtained.

FINDING OF NO SIGNIFICANT IMPACT

Indirect and Cumulative Impacts: Indirect impacts can result from changes in land use and development

that would be indirectly supported by changes in accessibility or mobility brought about by improvements

in passenger rail service. Indirect impacts differ from those directly associated with the construction and

operation of a railroad improvement project itself and are often caused by what is commonly referred to

as "induced development." Induced development includes a variety of alterations such as changes in land

use, economic vitality, property values and/or population density. The potential for indirect impacts to

occur is determined in part by local land use and development-planning objectives and the physical

location of the Project.

Indirect: Given the low projected ridership assumed for the Project, it is unlikely that indirect local

socioeconomic effects (e.g., new access to goods, services, employment) or changes in land use would be

significant. It is possible that new station parking may provide an opportunity for municipalities to

harness commuter spending power, and thus lead to possible positive indirect socioeconomic effects;

however, the proposed parking lots would accommodate a maximum of 50 cars at a time, thereby limiting

such effects. It is reasonable to conclude that such localized effects to surrounding businesses would not

be significant.

Cumulative: The recent and reasonably foreseeable future actions will improve the existing rail

infrastructure but do not consist of new rail lines that would have a substantial direct effect on the

environment. Adding new passenger service to the existing rail lines would also not have a significant

direct effect to any resource.

It is not anticipated that the Project will have permanent adverse impacts or cumulative effects to

transportation, air quality, socioeconomics, environmental justice communities, public safety, or Section

4(f) or Section 6(f) resources as a result of implementing the Selected Alternative. Any potential adverse

impacts to threatened or endangered species; land use; water quality and water resources, including

wetlands and floodplains; cultural resources; and visual and aesthetic resources would be identified in

future Tier II NEPA analyses and documents. Impacts to these resources are expected to be minimal

because many of these resources are protected by federal and state regulations and would require

mitigation for any impacts determined to be unavoidable.

FINDING OF NO SIGNIFICANT IMPACT

Other past, present, and reasonably foreseeable future actions have created a noise and vibration environment that varies considerably through the project study area. The existing rail lines passing through these areas are used at varying levels of intensity and frequency. The frequency of the noise and vibration generated by trains is episodic, occurring only when the trains pass. The addition of one roundtrip (two passes) of passenger trains for the Selected Alternative would not substantively add to the episodes of increased noise and vibration levels. There would be minimal cumulative impacts to noise and vibration levels from the Selected Alternative because only one additional intercity passenger train would

There are no current or known reasonably foreseeable future actions that would further affect ecological systems. If elements of the Project would require work outside the existing rail ROW to modify existing or construct new tracks or stream or road crossings, the Project may impact wildlife habitat or corridors within Segments 1, 9, and 10. Additional investigation of ecological systems would be conducted as part

of Tier II NEPA analyses during preliminary and final design to identify any potential impacts and, if

necessary, design appropriate impact avoidance or minimization measures. Cumulative impacts to

ecological systems may result if impacts cannot be avoided.

travel through the Project study area per day.

The Selected Alternative would use slightly more than double the energy than the No Build Alternative due to an additional daily trip from the new service (620 gallons of fuel) but would likely offset energy use associated with motor vehicles due to the mode shift from motor vehicles to passenger rail. The Selected Alternative, in combination with other past, present, and reasonably foreseeable future actions, would not result in a substantive change in cumulative energy use.

Land use in the project study area includes residential, commercial, industrial, transportation, and agricultural properties, as well as undeveloped land. There are no current or known reasonably foreseeable future actions that would further change land use. The EA considered railroad infrastructure improvement projects to be reasonably foreseeable future actions and determined that such projects will not affect land use. The Selected Alternative may directly or indirectly impact land use outside of the ROW depending upon the selected locations for the proposed new stations in Manchester, VT and North Bennington, VT and Mechanicville, NY. Property may need to be acquired to accommodate small parking lots at the new station sites. Additional investigation of changes to land use would be conducted as part of Tier II NEPA analyses during preliminary and final design. The impacts may be beneficial if

FINDING OF NO SIGNIFICANT IMPACT
New York-Vermont Bi-State Intercity Passenger Rail Study

abandoned or blighted properties are acquired for the project. As a result, the Selected Alternative, in

combination with other past, present, and reasonably foreseeable future actions, may result in beneficial

cumulative impacts to land use.

There are no current or known reasonably foreseeable future actions that would further alter the

socioeconomic environment in the study area. The EA considered railroad infrastructure improvement

projects to be reasonably foreseeable future actions and determined that such projects will not adversely

affect socioeconomics. The Selected Alternative is expected to indirectly benefit the economy by

providing new rail service to southwestern Vermont and east central New York. As a result, the Selected

Alternative, in combination with other past, present, and reasonably foreseeable future actions, may result

in beneficial cumulative impacts to the socioeconomic environment.

FRA finds that the Project would not result in any significant adverse indirect or cumulative impacts.

Public Involvement: VTrans began coordination efforts in the early stages of the Project and maintained

consistent communication (e.g., newspaper notices, email distribution list, public meetings) with

residents, public officials, businesses, property owners, stakeholders, and regulatory agencies during the

environmental review process. Information about the New York -Vermont Bi-State Intercity Passenger

Rail Study was made available on VTrans' website (http://rail.vermont.gov) and the project website

(http://ny-vt-passengerrail.org).

A total of five Stakeholder Committee meetings were held with representatives from VTrans, NYSDOT,

potentially affected rail operators, regional planning agencies within the project study area, and various

advocacy groups between March 2011 and December 2012.

VTrans held the following several public informational meetings, which were advertised in local

newspapers serving the project study area, to provide the public an opportunity to learn about and provide

comments on the study:

March 22, 2011 (Bennington, VT) – Project Introduction, Purpose and Need, Screening Criteria

June 7, 2011 (Mechanicville, NY) – Project Recap, Alternatives, Evaluation Methodology

■ June 8, 2011 (Rutland, VT) – Project Recap, Alternatives, Evaluation Methodology

December 13, 2011 (Bennington, VT)

December 14, 2011 (Mechanicville, NY)

FINDING OF NO SIGNIFICANT IMPACT

- December 11, 2012 (Mechanicville, NY)
- December 12, 2012 (Rutland, VT)

Public input received was incorporated into the Tier I environmental analysis.

<u>Commitments and Mitigation Measures:</u> For the purposes of this Tier I analysis, the Build Alternatives have the potential to adversely affect environmental resources during construction activities and operation of the railroads. The following mitigation strategies would be applied as one or more components of the Selected Alternative move forward to design and potential implementation. Additional measures may be identified and included in Tier II environmental documents.

- Water Quality and Water Resources, including Wetlands: During Tier II, coordination would occur, as necessary, with the US Army Corps of Engineers, the NYDEC, and the Vermont Department of Environmental Conservation for permits and approvals prior to any waterway, wetland, or floodplain impacts.
 - Because the Project has the potential to disturb more than one acre, it may be subject to
 the requirement for a NPDES permit for stormwater discharges from construction sites.
 Should it be necessary, the appropriate permit coverage would be obtained.
 - o A Stormwater Pollution Prevention Plan would be prepared and implemented, if necessary, in accordance with requirements under the NPDES permit(s).
 - o Appropriate construction and post-construction BMPs would be followed.
 - Efforts would be made in future phases of work to avoid and/or minimize impacts to wetlands. Avoidance and minimization may be accomplished by narrowing the railroad cross-section with the use of retaining walls, steeper embankments, and bridging critical wetland resources. If necessary, compensatory mitigation measures may be identified during the permit coordination process.
- Threatened and Endangered Species: Additional analysis and agency coordination under applicable state and federal laws (e.g., Endangered Species Act) would occur during Tier II for site-specific construction activities along Segment 10, as well as for any previously unidentified protected species that are identified and could be impacted in areas where Project work is proposed. Any potential impacts to protected species identified during Tier II analyses would be minimized through the use of BMPs and construction timing restrictions.

• Cultural Resources/Historic Properties: Section 106 consultation was initiated during the Tier I analysis. Future Section 106 consultations with the New York and Vermont State Historic Preservation Officers would occur for specific undertakings, as necessary, once detailed design plans are developed, footprints of ground disturbing activities are known, and potential effects to historic properties can be identified.

• Noise: To minimize or eliminate the effect of construction noise on these receptors, time restrictions may be used to limit the period of exposure to construction noise.

 Vibration: Measures would be taken to mitigate vibration impacts by restricting the procedures and time permitted for vibration-intensive activities, and by requiring vibration monitoring to certify compliance with vibration limits.

Public Health and Safety: Coordination with emergency service providers would occur during the
construction phase in order to mitigate any potential impacts due to construction activities.
 Construction safety measures such as signage and fencing would be used to keep the public out
of construction areas.

Hazardous Materials: Accidental spills of hazardous materials and wastes during construction or
operation of the transportation system require special response measures. Such occurrences would
be handled in accordance with local government response procedures.

o Further environmental studies would be conducted if the Project requires excavation, including subsurface utility relocation, and a Preliminary Site Investigation (PSI) would be conducted prior to acquisition of any contaminated parcel, and/or required temporary or permanent easements if required.

Conclusion: FRA finds that the New York-Vermont Bi-State Intercity Passenger Rail Study, as presented and assessed in the attached Tier I EA, satisfies the requirements of NEPA (42 USC § 4321 et seq.), the CEQ regulations (40 CFR parts 1500-1508), FRA's Procedures for Considering Environmental Impacts (64 FR 28545, May 26, 1999), and FRA's Update to NEPA Implementing Procedures (78 FR 2713, January 14, 2013), and the Project would have no foreseeable significant impact on the quality of the human or natural environment. This FONSI is based on the EA, which FRA determined adequately and accurately presents the purpose and need, areas of environmental consideration, potential environmental impacts, and mitigation measures.

FINDING OF NO SIGNIFICANT IMPACT
New York-Vermont Bi-State Intercity Passenger Rail Study
Rutland and Bennington Counties, Vermont
Schenectady, Saratoga, Washington, Rensselaer, Albany Counties, New York
December 2014

The EA provides sufficient evidence and analysis for FRA to determine that an environmental impact statement is not required for the Project as presented.

Joseph C. Szabo

Administrator

Federal Railroad Administration

DEC 29 2014

Date

This document was prepared in accordance with FRA's Procedures for Considering Environmental Impacts and NEPA by the FRA's Office of Railroad Policy and Development, with assistance from FRA's Office of Chief Counsel. This document was prepared in December 2014. For information regarding this document contact:

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The following organization assisted the Program Office in the preparation of the attached Environmental Assessment:

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FINDING OF NO SIGNIFICANT IMPACT

New York-Vermont Bi-State Intercity Passenger Rail Study

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