



Metro | Agenda

REVISED, 6/24/13

Meeting: Metro Council
Date: Thursday, June 27, 2013
Time: 2 p.m.
Place: Metro, Council Chamber

CALL TO ORDER AND ROLL CALL

1. INTRODUCTIONS

2. CITIZEN COMMUNICATION

3. TRANSPORTATION CASE STUDY AUDIT

Flynn

4. CONSENT AGENDA

4.1 Consideration of the Minutes for June 20, 2013

4.2 **Resolution No. 13-4435**, For the Purpose of Temporarily Suspending the Alternative Program and Performance Standard in Metro Code Chapter 5.10.240.

5. RESOLUTIONS

5.1 **Resolution No. 13-4440**, For the Purpose of Authorizing the Chief Operating Office to Issue a Non-System License to Recology Portland, Inc. for Delivery of Residential Yard Debris Mixed with Food Waste from the Suttle Road Recovery Facility to Recology Oregon Compost, Inc. - Nature's Needs Compost Facility Located in North Plains, Oregon. **Brower**

6. CHIEF OPERATING OFFICER COMMUNICATION

7. COUNCILOR COMMUNICATION

ADJOURN

EXECUTIVE SESSION HELD PURSUANT WITH ORS 192.660.2(h). TO CONSULT WITH COUNSEL CONCERNING THE LEGAL RIGHTS AND DUTIES OF A PUBLIC BODY WITH REGARD TO CURRENT LITIGATION OR LITIGATION LIKELY TO BE FILED.

EXECUTIVE SESSION HELD PURSUANT WITH ORS 192.660.2(e). TO CONDUCT DELIBERATIONS WITH PERSONS DESIGNATED BY THE GOVERNING BODY TO NEGOTIATE REAL PROPERTY TRANSACTIONS.

Television schedule for June 27, 2013 Metro Council meeting

| | |
|---|--|
| Clackamas, Multnomah and Washington counties, and Vancouver, WA Channel 30 – Community Access Network <i>Web site:</i> www.tvctv.org <i>Ph:</i> 503-629-8534 <i>Date:</i> Thursday, June 27 | Portland Channel 30 – Portland Community Media <i>Web site:</i> www.pcmtv.org <i>Ph:</i> 503-288-1515 <i>Date:</i> Sunday, June 30, 7:30 p.m. <i>Date:</i> Monday, July 1, 9 a.m. |
| Gresham Channel 30 - MCTV <i>Web site:</i> www.metroeast.org <i>Ph:</i> 503-491-7636 <i>Date:</i> Monday, July 1, 2 p.m. | Washington County Channel 30– TVC TV <i>Web site:</i> www.tvctv.org <i>Ph:</i> 503-629-8534 <i>Date:</i> Saturday, June 29, 11 p.m. <i>Date:</i> Sunday, June 30, 11 p.m. <i>Date:</i> Tuesday, July 2, 6 a.m. <i>Date:</i> Wednesday, July 3, 4 p.m. |
| Oregon City, Gladstone Channel 28 – Willamette Falls Television <i>Web site:</i> http://www.wftvmedia.org/ <i>Ph:</i> 503-650-0275 Call or visit web site for program times. | West Linn Channel 30 – Willamette Falls Television <i>Web site:</i> http://www.wftvmedia.org/ <i>Ph:</i> 503-650-0275 Call or visit web site for program times. |

PLEASE NOTE: Show times are tentative and in some cases the entire meeting may not be shown due to length. Call or check your community access station web site to confirm program times.

Agenda items may not be considered in the exact order. For questions about the agenda, call the Metro Council Office at 503-797-1540. Public hearings are held on all ordinances second read. Documents for the record must be submitted to the Regional Engagement and Legislative Coordinator to be included in the meeting record. Documents can be submitted by e-mail, fax or mail or in person to the Regional Engagement and Legislative Coordinator. For additional information about testifying before the Metro Council please go to the Metro web site www.oregonmetro.gov and click on public comment opportunities.

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Agenda Item No. 3.0

Transportation Case Study Audit

Metro Council Meeting
Thursday, June 27, 2013
Metro, Council Chamber



Tracking Transportation Project Outcomes:

Light rail case studies suggest path to improved planning

June 2013

A Report by the Office of the Auditor

Suzanne Flynn

Metro Auditor

Audit Team:

Mary Hull Caballero

Senior Management Auditor

Kristin Lieber

Principal Management Auditor

Emilia Callero

Audit Intern



Knighton Award for Auditing

Metro receives ALGA Gold Award

The Auditor's Office was the recipient of the Gold Award for Small Shops by ALGA (Association of Local Government Auditors). The winning audit is entitled *"Metro's Natural Areas: Maintenance strategy needed."* Auditors were presented with the award at the ALGA conference in Nashville, TN, in May 2013. Knighton Award winners are selected each year by a judging panel and awards presented at the annual conference.

Metro Ethics Line

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The ethics line is administered by the Metro Auditor's Office. All reports are taken seriously and responded to in a timely manner. The auditor contracts with a hotline vendor, EthicsPoint, to provide and maintain the reporting system. Your report will serve the public interest and assist Metro in meeting high standards of public accountability.

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File an online report at www.metroethicsline.org



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MEMORANDUM

June 19, 2013

To: Tom Hughes, Council President
Shirley Craddick, Councilor, District 1
Carlotta Collette, Councilor, District 2
Craig Dirksen, Councilor, District 3
Kathryn Harrington, Councilor, District 4
Sam Chase, Councilor, District 5
Bob Stacey, Councilor, District 6

From: Suzanne Flynn, Metro Auditor 

Re: Audit of Transportation Project Case Studies

This report covers our audit of the effectiveness of Metro's planning strategies to increase light rail ridership. This audit is related to a previous audit released in 2010 that analyzed all transportation investments from Federal Fiscal Years 2004 through 2008. In that audit, we noted that Metro could not determine whether transportation projects moved the region toward desired outcomes in the 2040 growth management plan because of incomplete data collection. This audit was included in our FY2010-11 Audit Schedule to delve a little deeper and demonstrate the value of outcome evaluation.

We chose a case study methodology to complete our audit. We reviewed many transportation projects and decided to study light rail transit stations. Metro plans recommend certain strategies that are intended to increase ridership. If the region is to meet many of its growth management goals, ridership on transit must be maximized. The three stations that we chose to study in depth provided us a rich complement of data and observations. From this, we learned that while ridership had increased at each station over time, there were other factors than the recommended strategies that should be considered to maintain that trend. We continue to believe that Metro should not only use data to predict what plans should be implemented, but also review after the fact whether these predictions were accurate.

We have discussed our findings and recommendations with Martha Bennett, COO, and Robin McArthur, Director, Planning and Development. A formal follow-up to this audit will be scheduled within two years. We would like to acknowledge and thank the management and staff in the Department who assisted us in completing this audit.

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Summary

As the federally designated metropolitan planning organization for the region, Metro must adopt a long-range transportation plan and approve short-term project priorities before federal funds can be received. This audit builds on a 2010 audit report that found Metro was unprepared to evaluate whether completed transportation projects resulted in progress on the region's growth management goals. In this audit, we completed three case studies of light rail transit stations to further illustrate the benefit of retrospective evaluation. The case-study stations were Tuality Hospital/SE 8th Avenue in Hillsboro, North Killingsworth Street in Portland, and East 162nd Avenue in Gresham.

Light rail transit is important to the region and represents a significant public works investment. It cost about \$3 billion in today's dollars to construct and additional resources annually for operations. While operated by TriMet, it is also a key component of Metro's growth management plan intended to reduce fuel consumption, air pollution, drive-alone trips and distances traveled by car. The best measure of whether this investment is of benefit to the region is its level of use – ridership.

Planning criteria suggests several strategies to increase ridership. The responsibility for implementing these strategies is shared among various governments. This audit assessed the effectiveness of these strategies in combination by analyzing:

- Government investments
- Ridership trends
- Demographic data, and
- Surveys of residents

We determined that ridership at the three stations went up over time. However, we were unable to make a determination whether these increases were caused by the planning strategies. Conversely, we were unable to determine that they were ineffective. Evidence indicated that other factors present in study areas could have played a role in ridership changes.

In household surveys we conducted, residents identified different actions than the strategies that would influence them to ride more. A comprehensive look at the neighborhoods surrounding the stations led us to conclude that Metro could improve the effectiveness of its future plans and current programs by reviewing actual results. This would lead to tailored strategies that addressed barriers to ridership at individual locations.

In addition to findings related to our original objective, we concluded that one of our study areas was less able to compete for government investment because some programs that fund transit-supportive projects are dependent on private-sector involvement. We also found the city limit boundary between Portland and Gresham impeded planning and problem-solving around the same station, which could make it difficult to attract non-riders and retain frequent riders who live near it.

Multiple governments and the public must act in partnership to increase ridership. We found that the region's decision-making process related to transportation planning was not organized to enable collaboration. As a result, the shared resources needed to maximize the region's investment in the light rail system were not available.

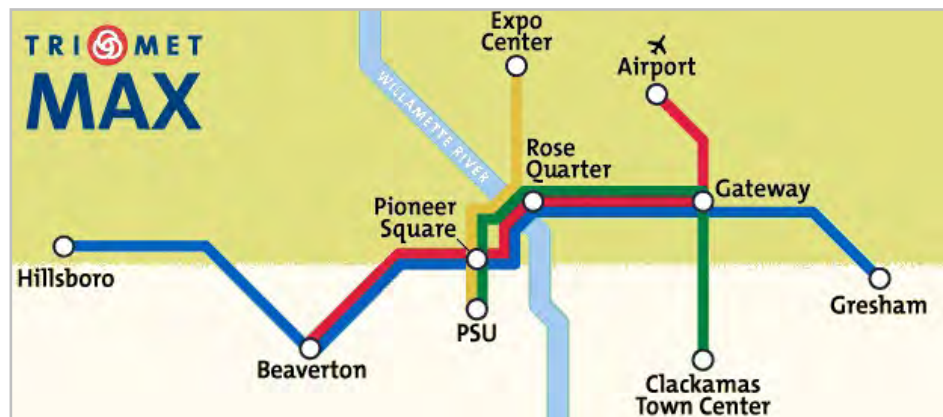
We made recommendations to Metro to improve the effectiveness of planning transportation projects. As a result of our case study analysis, it was clear that different strategies would be more effective in some stations and not others. As a result, we recommended more place-specific analysis be conducted of transportation needs. We also recommended that Metro increase the use of outcome measures and assess and report on the effectiveness of local transportation projects in reaching regional outcomes as well as any inequitable outcomes that have resulted.

Background

Light rail transit is important to the Portland metropolitan region. It is a far-reaching public works project, costing about \$3 billion in today's dollars to construct and annual sums more to operate. It is a significant component of Metro's long-range growth management and transportation plans. As such, it must attract and retain riders in increasing numbers if the goals in those plans are to be achieved.

Multiple governments share in the responsibility to plan for, fund, operate and support the region's Metropolitan Area Express light rail system, which is known as the MAX. While TriMet operates the MAX, Metro and other governments use a variety of strategies to influence people to use it. They are based on planning principles that say urban areas should be designed for pedestrians. The strategies also include fare-reduction programs, marketing campaigns and crime prevention.

Exhibit 1
Metropolitan Area Express
light rail system



Source: TriMet

Many of the government actions related to the MAX system are coordinated through Metro's Joint Policy Advisory Committee on Transportation (JPACT). That 17-member body is made up of elected officials and government agency representatives from around the region, including TriMet, the region's largest transit authority. JPACT and the Metro Council must agree on transportation policies, plans and projects that involve federal funding or are regionally significant.

As the federally designated metropolitan planning organization for the region, Metro must adopt a long-range transportation plan and approve short-term project priorities before federal funds can be spent. Those transportation plans and projects affect decisions related to Metro's other role as the state-authorized land-use planner for the region. In that role, Metro must manage a growing urban population within a designated boundary to protect against expansion into rural areas.

This audit builds on a 2010 Metro audit report that demonstrated that Metro was unprepared to evaluate whether transportation investments put the region on track to achieve its growth management goals. Planning criteria says long-range plans should be periodically assessed using actual results and adjusted as needed. The audit found that Metro did not routinely collect or analyze data on completed transportation projects and, therefore, could not effectively gauge progress being made to achieve the growth-management goals.

Changes occurring at the federal level could have implications for how Metro and its regional partners act to optimize transportation investments generally and the MAX system specifically. In 2012, Congress passed a surface transportation funding bill that included requirements to begin evaluating program outcomes against national goals. There also is movement unrelated to the transportation bill for federal agencies who share responsibility to achieve complex goals to act in a collaborative manner rather than merely coordinating activities, which is how the region's transportation decision-making process currently functions.

Scope and methodology

This audit was a continuation of a previous audit completed in 2010 in which we recommended that Metro improve its ability to evaluate outcomes of its transportation plans. The purpose of this audit was to use a case study methodology to evaluate outcomes of a specific or group of transportation projects. We considered many types of projects as potential study areas and chose light rail.

We conducted assessments of stations throughout the light rail system and reviewed potential data sources before choosing those we studied. The secondary purpose of this audit was to assess the combined effect of planning strategies used to increase ridership.

The strategies assessed were urban improvements, transit-oriented development, marketing campaigns, fare-reduction incentives and crime prevention. Criteria say they should be assessed in combination because the sum of their total effects is intended to be greater than their individual effects. Given that, we did not set out to evaluate the outcomes of individual programs that implement the strategies. We did, however, establish findings related to the funding mechanisms of two of them.

We used case study as our method to evaluate how actual practice compared to the planning theory on which the strategies were based. We picked three neighborhoods around the following MAX stations as our cases:

- Tuality Hospital/SE 8th Avenue in Hillsboro;
- North Killingsworth Street in Portland; and
- East 162nd Avenue in Gresham.

With the stations at the center, we set the study area boundaries approximately a quarter-mile away in all directions. That distance is commonly used in transit-related studies.

Case study methodology encourages a comprehensive understanding of each area. We used observation, interviews, Census data analysis and reviews of planning documents. We developed inventories of projects and plans in each study area to track capital improvements, policy changes, and other events over time that could affect ridership. We also obtained historical ridership data from TriMet, which operates the region's largest transit system. The data included annual ridership by station for FY 2007-11 and average weekday and weekend "on and off" counts by station from 2002 to 2012. That data for the North Killingsworth Street MAX Station started in 2004.

We surveyed residents in each study area to test their awareness of the strategies and whether they influenced their decisions to ride the MAX. In the survey, we described the strategies as:

- Placing retail businesses and services near stations;
- Increasing residential options near stations;

- Enabling a sense of personal safety in the neighborhood, at the station and on MAX trains;
- Improving sidewalks, crosswalks and bike lanes near stations; and,
- Encouraging people to drive less and use other travel methods.

A more detailed explanation of the survey methodology is in Appendix 1. The survey questions and results are in Appendix 2.

Only the Hillsboro study area contained employers large enough to fall under state environmental requirements to provide commuting options for employees. The Oregon Department of Environmental Quality requires employers to periodically survey their workers to determine how they get to work and submit the results to the state agency. We reviewed the data for the two large employers in the study area.

This audit was included in the FY 2010-11 audit schedule. We conducted this performance audit in accordance with generally accepted government auditing standards. Those standards require that we plan and perform the audit to obtain sufficient, appropriate evidence to provide a reasonable basis for our findings and conclusions based on our audit objectives. We believe that the evidence obtained provides a reasonable basis for our findings and conclusions based on our audit objectives.

Results

The purpose of this audit was to use a case study methodology to evaluate outcomes of transportation projects. The focus of the audit was light rail transit. We studied three MAX stations in-depth to determine if the ridership strategies used to influence people to ride light rail were effective.

We considered the outcome of the strategies in combination from several perspectives. We concluded that ridership at the three stations went up over time. However, we were unable to make a determination whether these increases were caused by the strategies. We also were unable to determine if the strategies were ineffective. Evidence indicated that other factors present in the study areas could have played a role in the ridership changes.

In household surveys we conducted, residents identified different actions than the strategies that would influence them to ride more. A comprehensive look at the neighborhoods surrounding the stations led us to conclude that Metro could improve the effectiveness of its future plans and current programs by reviewing actual results. This would lead to tailored strategies that addressed barriers to ridership at individual locations.

In addition to findings related to our original objective, we concluded that one of our study areas was less able to compete for government investment. This was because some programs that funded transit-supportive projects were dependent on private-sector involvement. We also found the city limit boundary between Portland and Gresham impeded planning and problem-solving around the MAX station, which could make it difficult to attract non-riders and retain frequent riders who live near it.

The MAX system is a significant regional asset that is an important tool to help the region achieve its long-term growth management goals. Multiple governments and the public must act in partnership to maximize its value by increasing ridership. We found that the region's decision-making process related to transportation planning was not organized to enable collaboration. As a result, the shared resources needed to maximize the region's investment in the MAX system were not available.

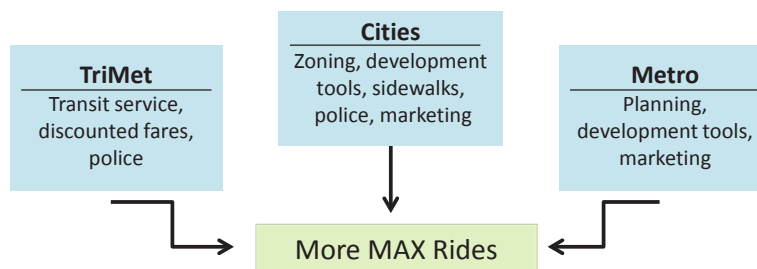
Ridership increased, but effectiveness of strategies unclear

Metro's transportation plan for the region included a diverse set of goals. Some of them included building a transportation system that would reduce fuel consumption, air pollution, drive-alone trips and distances traveled by car. The MAX system was an integral part of the plan.

Planning criteria suggest several strategies to increase ridership. The responsibility for implementing them varies among levels of government. Some strategies focus on the pedestrian environment. For these, block length should be short, walking should be easy and without barriers and buildings at the ground level should be appealing. Others encourage increasing the number of people who live or work around the stations, providing incentives

to employees to commute by transit, and using marketing campaigns to show potential users the value of transit. We added crime prevention to this list after learning about government and citizen activities in proximity to the MAX in our study areas. See Exhibit 2.

Exhibit 2
Examples of government
roles in the strategies



To assess the effect of these strategies, we developed an inventory of government investments in each study area to implement them. The inventories included spending on mixed-use buildings, pedestrian improvements and crime prevention programs. They did not include investments in law enforcement activities or tax abatements. We plotted them on a timeline and noted other events that could have affected ridership, such as the recession beginning in 2007 and non-governmental activities. We then added average weekday ridership data from TriMet to the timelines. We found:

- North Killingsworth Street (Killingsworth) received the highest level of government investment and had an overall increase in riders;
- Tuality Hospital/SE 8th Avenue (Tuality Hospital) received the second-highest level of investment and had an overall increase in riders; and,
- East 162nd Avenue (East 162nd) received the least government investment and had an overall increase in riders as well.

The rate of the ridership increases varied. East 162nd had the highest average annual growth and added more daily rides per year on average than the other two stations. That indicated that other factors besides the ridership strategies influenced the results. See Exhibit 3 and Infographic #1.

Exhibit 3
Ridership data comparisons
and estimated investment
levels

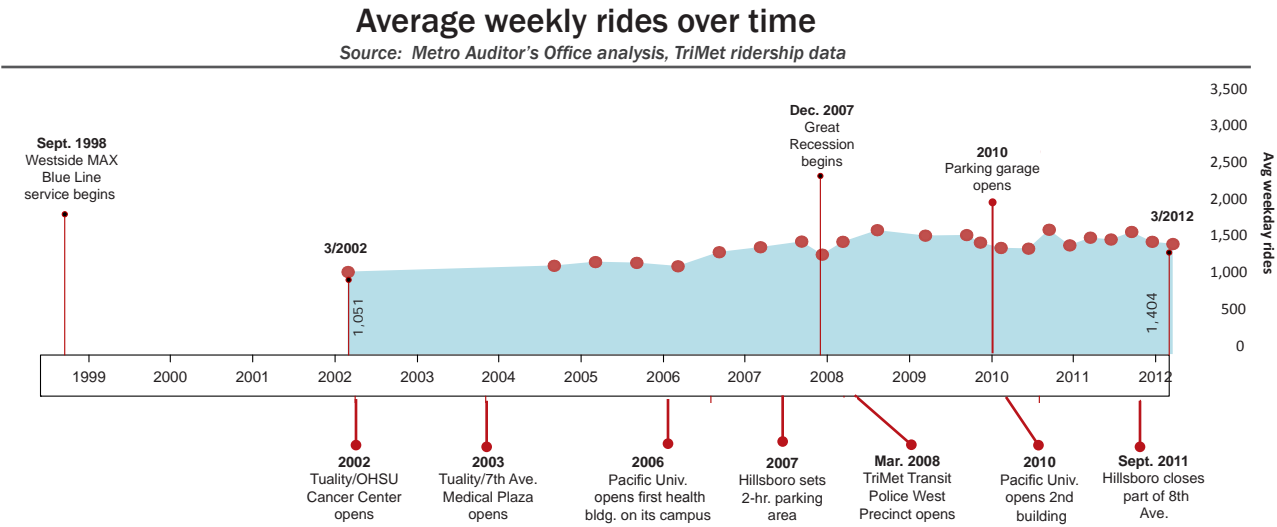
| Station | Annual growth in average daily rides* | Annual growth rate in average daily rides* | Total boardings & alightings FY 2011 | Public investment since 2005 |
|------------------------|---|--|--|------------------------------------|
| Tuality Hospital | 35 | 2.9% | 459,342 | \$12 million |
| Killingsworth | 86 | 4.3% | 737,334 | \$28 million |
| East 162 nd | 147 | 4.8% | 1,219,530 | \$900,000 |

Source: Metro Auditor's Office estimate of investments and analysis of TriMet data.

* Based on average weekday ridership from 2002-20012 for the Tuality Hospital and East 162nd stations; from 2004-2012 for Killingsworth.

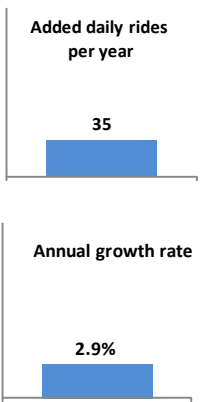
Has ridership increased over time?

We found ridership increased for all three stations, but both the rate of increase and number of rides taken annually was more dramatic for the East 162nd station. Tuality Hospital is an employee destination, while at the other two stations, ridership is primarily from residents commuting to work.



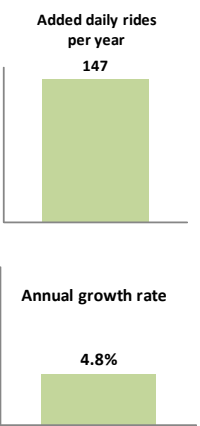
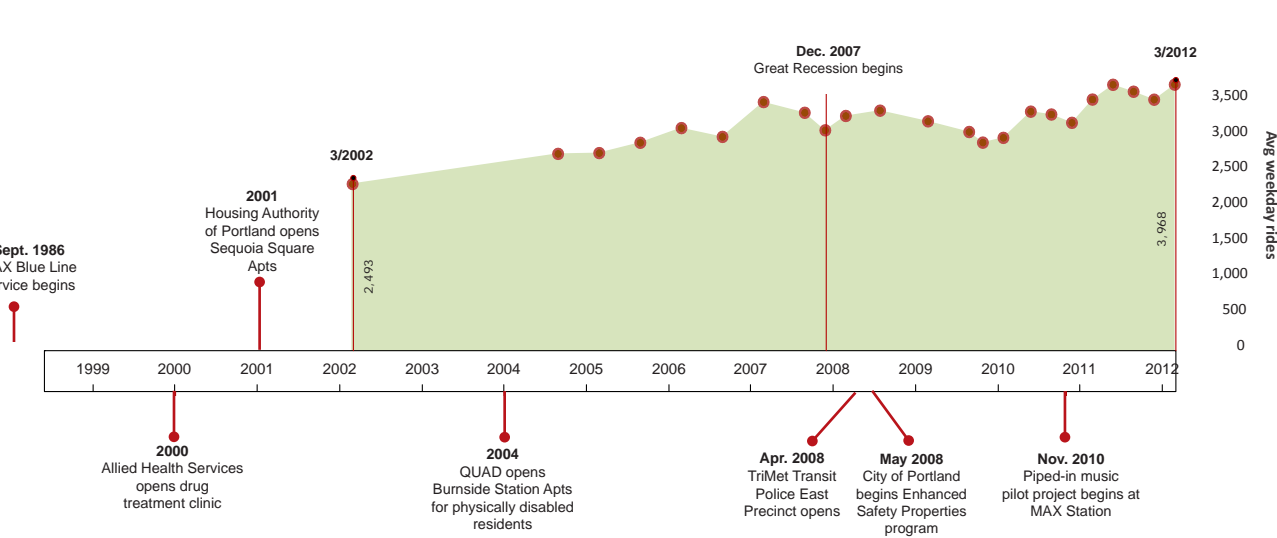
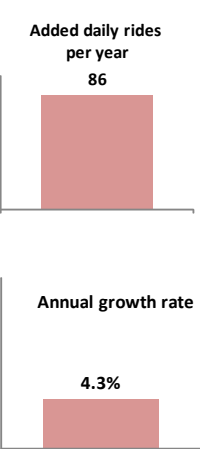
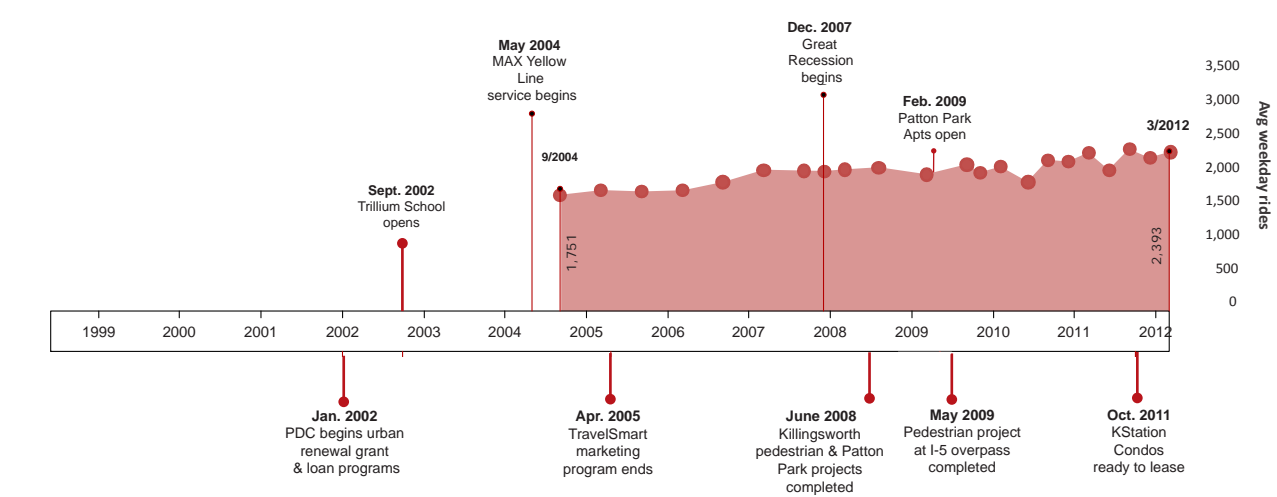
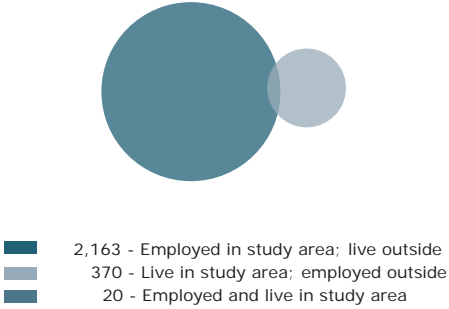
Ridership growth

Source: Metro Auditor's Office analysis, TriMet ridership data



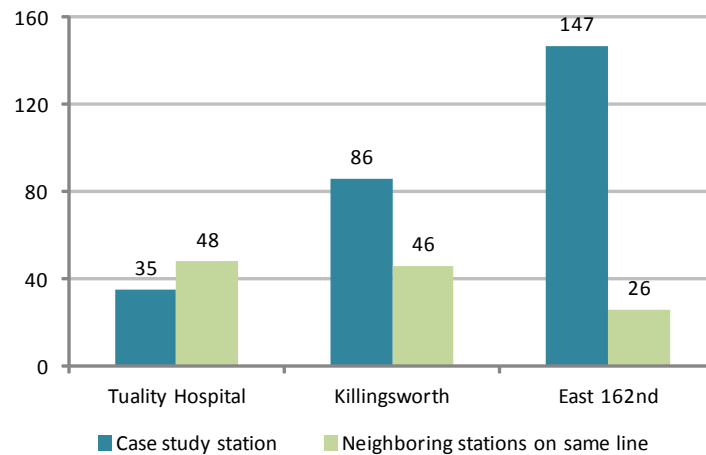
People coming and going (2010)

Source: U.S. Census Bureau



One possible explanation for varying ridership trends was that they were affected by the line on which they were located because some lines are busier than others. To determine if that was the case, we compared average ridership growth at each case study station to average ridership growth at neighboring stations on the same line, omitting those that served more than one line. The results were mixed. East 162nd and Killingsworth added more daily rides per year on average than their neighboring stations. Tuality Hospital added fewer rides than other stations on its line. See Exhibit 4.

Exhibit 4
Average added daily rides per year
at case-study stations compared
to neighboring stations on the
same line



Source: Metro Auditor's Office analysis of TriMet data.

* Based on average weekday ridership from 2002-20012 for the Tuality Hospital and East 162nd stations; from 2004-2012 for Killingsworth.

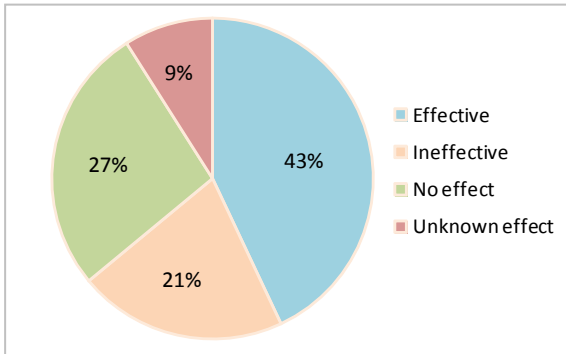
Residents say different improvements would lead to more rides

We surveyed residents in each study area to solicit their views of the MAX and gain insight into whether the ridership strategies influenced their decision to use it. Overall, residents said they valued the existence of the MAX line in their neighborhood even if they didn't use it.

We asked different questions depending if the respondent was a rider or a non-rider. For our purposes, a rider had taken the MAX in the previous 30 days while a non-rider had not. We received 406 responses, 275 (68%) of which came from riders and 131 (32%) came from non-riders.

Forty-three percent of the riders who responded to the question said they were more likely to take the MAX because of the combined effect of the strategies. The remaining 57% rated the strategies as ineffective, neutral or unknown on their likelihood to ride. See Exhibit 5.

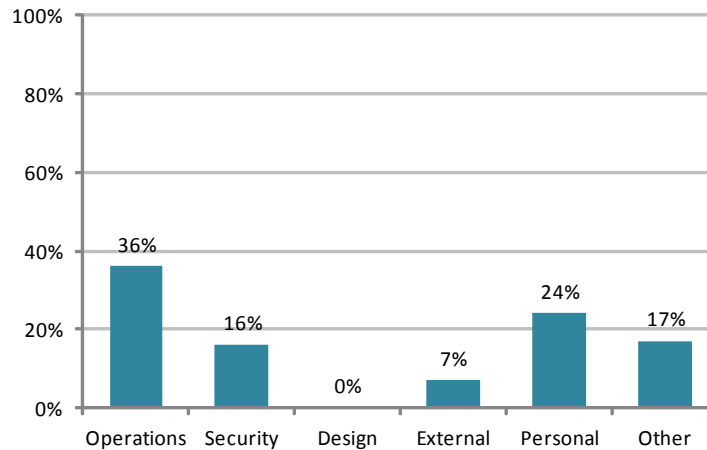
Exhibit 5
Riders' assessment of overall
effect of strategies on their
likelihood to ride



Source: Metro Auditor's Office survey data

We did not ask non-riders about the strategies because we concluded their lack of use indicated the strategies had not been effective in influencing them to take the MAX. We asked non-riders why they had not ridden and what changes would influence them to do so. More than a third of non-riders chose responses related to MAX operations, such as not being interested in MAX destinations or trips taking too long. Nearly one-quarter cited personal reasons, such as needing a car to run errands, while 16% listed security issues. See Exhibit 6.

Exhibit 6
Top reason non-riders
had not taken the MAX



Source: Metro Auditor's Office survey data

The variation in the responses showed the challenge governments face in developing strategies to overcome the barriers reported by non-riders. Some operational barriers, such as those related to available MAX destinations, are structural and cannot be readily addressed in a fixed-rail system. There are, however, strategies that exist to help those who said they needed their car for errands. It is possible that non-riders were unaware of them or the solutions offered could not overcome the reasons the non-riders needed a car.

We also asked both riders and non-riders to indicate changes that would influence them to use the MAX more. The response indicated that changes to MAX operations, such as lower fares or quicker trips, would result in the largest ridership gains. There also could be opportunities to improve existing strategies, such as marketing campaigns and crime-prevention programs, to be more effective with some riders, depending on their location. We explore these more in the next section. See Appendix 2 for complete survey results.

Neighborhood-level analysis could better align strategies and needs

Achieving ridership gains across the system calls for a better understanding of local needs rather than a one-size fits-all approach. Optimizing the taxpayers' investment in light rail may require a more place-specific solution with various levels of government working in unison.

In addition to survey data, we assembled profiles for each study area based on observations, interviews, and data that included:

- Demographic information about the people who lived there;
- Travel information about the employees who lived in or commuted to the study areas for work;
- Types of businesses present;
- Types of crime reported and other nuisance factors near the stations;
- Levels of transit service available; and,
- Investments made to implement the strategies.

The profiles combined with survey data provided information that could be used to develop more effective station-specific strategies. For example, few Tuality Community Hospital employees in Hillsboro used transit to commute to work even though a MAX station is a short walk away. At Killingsworth, the residents who live there now probably did not participate in the outreach events before their MAX Line was built, so what was expected to influence them to ride may no longer be pertinent. At East 162nd, 12% of workers who lived in the area were dependent on transit. Our subsequent survey data showed the percentage of frequent riders decreased as incomes rose. See page 11a for Infographic #2.

Employees in Tuality Hospital study area are a potential source of ridership

While the Hillsboro study area in many ways was a model of transit-supportive design, it had the lowest overall ridership and the lowest average annual ridership growth rate of our three case studies. It also added fewer average daily rides annually than its neighboring stations on the same MAX line. It was an example of how the pedestrian environment alone was not enough to overcome the operational and other barriers to ridership cited by survey respondents. There is an opportunity to increase ridership at this station by targeting strategies to meet the needs of workers who commute to the area.

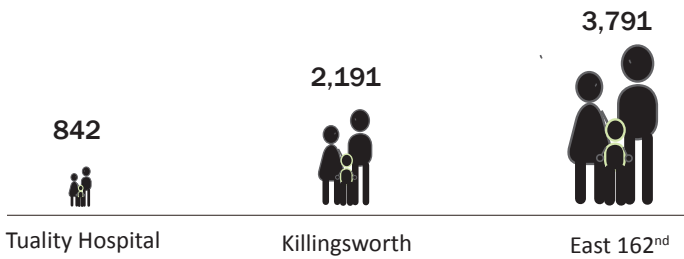
Who lives near these stations?

(Source: U.S. Census Bureau)

Everything was not the same in the neighborhoods surrounding our transit station study areas. East 162nd and Killingsworth stations were on opposite ends of the spectrum in terms of median household income, educational attainment, racial diversity and foreign-born residents, while Tuality Hospital was in the middle.

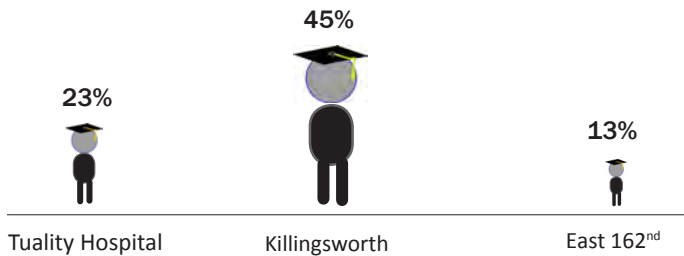
Which area is the most populated?

There are 3,791 residents in the East 162nd study area. This is more than four times the number of residents living in the Tuality Hospital area.



How do the areas vary in educational attainment?

45% of residents near the Killingsworth station have at least a bachelor's degree. This is up from 19% in the 2000 census.



What is the household income?

The East 162nd area has a lower average household income than the other two stations.



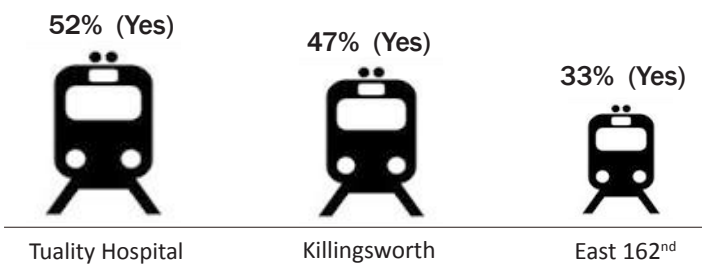
What did they tell us?

(Source: Metro Auditor's Office survey)

There were other factors in addition to operational improvements that affected their choice to ride the MAX or not.

Are riders more likely to ride after improvements near the station?

Overall, 42% of riders said they were more likely to take the MAX because of improvements that had been made since the line started.



What is the top reason why non-riders do not ride?

The top reasons that were cited by non-riders for not taking MAX were not related to the amenities or new buildings near the station.



Did riders move to the area because of MAX?

Two-thirds of riders said they moved to the area of the Killingsworth station in part because of the MAX. This was true for over 1/2 of riders living near the East 162nd station.

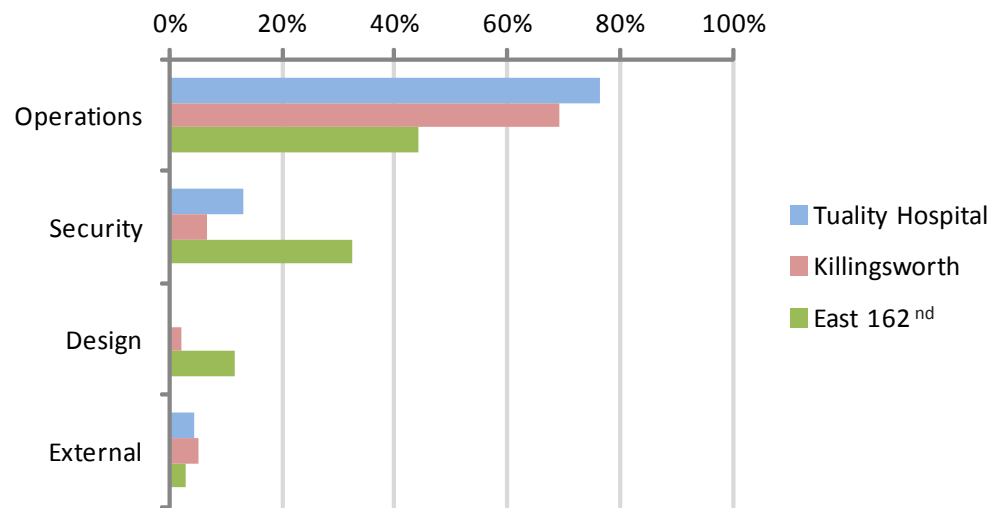


What would make both riders and non-riders ride more?

We asked residents in the station areas what would make them ride MAX more and asked them to choose from a list of 17 items. We combined those into larger categories of:

- Operations, which included more frequent service, better bus connections and lower fares;
- Security, which included more police at stations or on the trains;
- Design, which included more stores, a more pleasant walking environment and other activities around the station, and;
- External factors, such as higher gas prices or parking fees.

We found that Tuality Hospital and Killingsworth station area residents overwhelming chose operational factors. At East 162nd, concerns over personal safety were nearly as important as operational factors.



(Tuality Hospital continued)

The area around this MAX station, located where downtown transitions to residential neighborhoods, has many pedestrian elements and other features that planning criteria say should increase transit ridership. Shade trees, decorative street lamps and brickwork, and limited vehicle traffic contribute to its visual and pedestrian appeal. Two satellite college campuses, a hospital, medical clinic, and retail shops are within steps of the MAX platform, making the area a destination for commuters. Of the three case study areas, this one was unique because it contained more large employers and a smaller residential zone than the other two.

The neighborhood around the Tuality Hospital MAX Station also contained a few examples of factors that can discourage transit ridership. The City of Hillsboro assembled \$11 million in public funds to help build a \$16 million multi-story parking garage with commercial space near the station. Planning criteria say access to convenient and inexpensive parking can be a disincentive for people to choose transit when it is near their destinations.

Tuality Hospital had the largest percentage of riders (52%) who found the combination of ridership strategies effective. The non-riders most often cited two reasons for not using MAX – the line did not go where they wanted to go and they needed their car for errands.

The best opportunity for ridership gains may lie with the commuters who travel to work at the various employers near the MAX Station. According to the 2010 Census, almost 2,200 people worked in the study area but lived elsewhere, and 370 lived in the study area but worked outside of it. Only 20 people both lived and worked within the study area boundary.

Two large employers in the area were required by the Oregon Department of Environmental Quality to provide employees with alternatives to driving alone to work. The state set targets for Tuality Community Hospital and the College of Health Professions at Pacific University to reduce drive-alone trips by 10%. It monitored progress through periodic surveys. The surveys did not distinguish between bus and light rail travel for the transit option.

The hospital met the state target to reduce drive-alone trips, but a small percentage of its employees used the transit option. This was despite the fact that their employer provided discounted transit passes. About 7% of employees used transit, a proportion that has remained relatively unchanged since the MAX line began operating.

Pacific University's College of Health Professions, which opened its Hillsboro campus in 2006, had not met its drive-alone reduction target, but 31% of its faculty and staff commuted by transit the first year. That percentage declined to 26% by 2011. MAX use by students was not collected by the state.

Strategies may need to be updated for the rapidly changing Killingsworth study area

The top reasons employees gave for driving to work were similar to those of the non-riding residents who responded to our survey: they needed their car for errands and transit trips took too long.

New residents started moving into North Portland long before the MAX line was built along Interstate Avenue. That trend has continued over the past decade. Census data for the Killingsworth area showed total population between 2000 and 2010 was stable, but its make up changed. Over the 10 years, the Killingsworth area became less diverse in age, race, and ethnicity, while income and education levels increased. The aspects of the MAX that appealed to residents when the line was built may not be the same for the people who live there now.

Residential turnover showed up in our survey results as well. Seventy-one percent of the Killingsworth respondents said they moved to their homes after the MAX line was built in 2004. Sixty-six percent of MAX users said proximity to the line factored into their decision to move to the area.

Changes to the physical landscape of the Killingsworth study area coincided with the demographic changes. During construction of the MAX line, the City of Portland sought input from the North Portland community to develop a revitalization plan for individual station areas. The guiding principle was that the subsequent investments benefit the existing business owners and residents. The investments reflected the community's vision for Killingsworth, but those who lived in the area at that time may not have stayed in the neighborhood to enjoy the benefits, including proximity to the MAX line.

An older motel was torn down and replaced with a mixed-use building that included apartments for low-income residents above ground-floor retail and office space. Most recently, a multi-story condominium building, also with retail space on the ground floor, filled an empty lot. Investments were made to improve a small park near the MAX station and make pedestrian crossings safer.

We observed factors oriented to car use too. A gas station was located on one corner by the MAX station platform and drive-up fast food and banking services businesses were nearby. Though outside of our study area, a Portland Community College Campus was within walking distance of the station, but Interstate 5 passed between the two. The freeway competed with MAX travel in this area in two ways: it made car travel convenient and the walk to destinations east of the MAX station noisy.

Less than half of the riders in our survey reported that the combined effect of the ridership strategies made them more likely to use the MAX. The non-riders most often cited three reasons for not using the MAX: Trips took too long, lack of interest in MAX destinations and needing their car for errands. Almost seven in 10 of both riders and non-riders said they would ride more if improvements were made to operations, including more frequent service, lower fares and access to transit passes.

*A more comprehensive approach
is needed to attract and retain
riders at East 162nd*

Given the higher household income in this study area compared to the other two, we did not expect the sensitivity to cost to be cited as often as it was by Killingsworth respondents. A possible explanation was that using transit is an added cost to vehicle ownership in these households.

The dominant feature of this study area was the large number of people who got on and off the MAX throughout the day. The platforms were located just inside the Gresham city limit, but about half of the study area was in Portland. Few examples of the planning suggestions for neighborhood design were within view of the platforms. There was a small medical clinic, a convenience store, some vacant lots and apartment complexes.

Pedestrians were present in large numbers, but the infrastructure to support them was insufficient. Though we observed work being done to complete sidewalks, some paths still were unpaved. Sidewalks generally were narrow and, along the busiest streets, unshielded from fast-moving traffic. Apartment buildings were set back from the street, bordered by large asphalt parking lots. Some of them were buffered by landscaping, but many were not. Blocks were long and some were unconnected cul-de-sacs. One street was unpaved.

Despite these shortcomings, East 162nd, which was on the oldest line in the system, produced the highest annual ridership and added more daily rides on average than the other two study areas combined. It also added more daily rides than its neighboring stations on the MAX line. We identified three factors that contributed to ridership at this MAX station: 1) the number of apartment complexes; 2) the number of patients traveling daily to the medical clinic; and, 3) the proportion of residents without access to a vehicle.

The East 162nd study area had considerably more residents-per-acre than the other two. It had 29 residents per acre, compared to 13 in Killingsworth and six in the Tuality Hospital study area. While the concentration of employees working in the Tuality Hospital study area did not translate into high ridership, the residential population around East 162nd appeared to have done so.

Travel to a medical clinic that provided outpatient drug treatment services also had an effect. It treated about 400 patients a day, 136 of whom traveled for appointments by light rail. The clinic provided TriMet passes to its employees to reduce vehicle traffic in the area and limit demand for parking spaces.

Finally, residents at East 162nd were more dependent on transit. This area had the highest percentage of workers without cars, the longest commutes, and, at \$29,390, the lowest median household income of the three areas. Almost half of our survey respondents from East 162nd said they used transit as their primary method of travel.

East 162nd had the lowest percentage of riders (34%) who reported that the strategies affected their decision to ride. More than half of riders said the strategies were ineffective or had no effect on their likelihood to ride. Non-riders said fear for their personal safety and needing a car for errands were the main reasons they did not use the MAX.

Even though they used the MAX, riders also said crime was an issue that affected their travel decisions. The crime rate around this station was higher than the other two, and some steps had been taken to address it. Overall, riders at East 162nd were the least likely of the three study areas to take the MAX because they felt safe using it.

The combination of the limited pedestrian environment and fear of crime may also have caused frequent MAX riders to use other travel options as their incomes rose. The proportion of frequent riders at East 162nd decreased as incomes levels went up. That was not the case at Killingsworth, which better maintained its proportion of frequent riders as income levels rose.

**East 162nd area less
able to compete
for funding**

The extent to which the ridership strategies had been implemented varied among the three study areas. New multi-story buildings, aided by government investment, had been constructed in the Tuality Hospital and Killingsworth areas within view of their MAX platforms. Capital investments at East 162nd mostly occurred away from the station and were much smaller in scale.

We identified \$41 million in public spending for projects related to ridership strategies in the three study areas. Of that, Killingsworth accounted for \$28 million (68%), Tuality Hospital accounted for \$12 million (30%), and East 162nd accounted for less than \$900,000 (2%).

We concluded the lack of resources was attributable in part to:

- Government programs that relied on the involvement of private-sector investors, and
- The city limit boundary between Portland and Gresham, which hindered the development and implementation of comprehensive solutions.

The lack of investment risks the loss of frequent riders when they can afford other options and fails to address the barriers non-riders at East 162nd say keeps them away from the MAX. It also runs counter to one of Metro's six values, which states that the benefits and burdens of growth and change are distributed equitably.

City governments used urban renewal funds to pay for projects that planning criteria say will encourage ridership. Urban renewal programs establish zones and target investments in hopes that property owners and investors will respond by making their own improvements. All three study areas were

in urban renewal zones. The Gresham program had identified recipients for a handful of apartment rehabilitation grants in our East 162nd study area, but none had been accepted by the property owners. Some agreements expired after two years and before any work was done. Gresham prioritized other locations than East 162nd within the zone for its significant investments.

Metro's Transit-Oriented Development Program used funds to provide small grants to encourage private and non-profit developers to build projects that combine dwellings and space for businesses near transit stations. It also bought vacant land to hold it for future development. It invested in the Tuality and Killingsworth study areas, but not East 162nd.

To participate in either of these programs, an area must appeal to private investors. They will not invest in an area without an expectation of a return on their investment. That means neighborhoods that do not appeal to developers will not receive funding, and higher-income areas are more likely to receive assistance through these programs. Areas like East 162nd that are unlikely to attract private-sector investment need programs that operate with different funding criteria.

To its credit, two years ago Metro made equity part of the criteria used to select projects to receive federal flexible funds in 2014 and 2015. Applicants were asked to demonstrate how their projects benefited historically under-served neighborhoods, enabled services necessary for daily living and provided bicycle, pedestrian and transit-access improvements. A project selected for funding in Hillsboro could benefit the Tuality Hospital study area. The proposal described changes along Baseline Street that would remove its "barrier effect" on a nearby low-income neighborhood. In addition to the flexible funds, urban renewal money was to be used to pay for it. No projects selected for that funding cycle would affect the East 162nd study area.

When the federal government gave the region an additional \$34 million after the original flexible fund awards had been decided, JPACT used a different criteria to select projects. None of the projects that received funding in the second round were in the vicinity of East 162nd either.

In the meantime, the MAX Station continues to be a source of conflicting opinions among the residents and other property owners in the area. Seventy-seven percent of the riders and non-riders who responded to our survey said the MAX line overall was good for their neighborhood, though that proportion was smaller than those at Killingsworth (94%) and Tuality Hospital (84%).

During interviews, those who viewed the MAX station area unfavorably cited a list of grievances they associated with it: crime, litter, foul language, the drug rehabilitation clinic on the corner. Many were afraid of it and their approaches to dealing with the station varied. Some people instructed their children to use

neighboring MAX stations rather than East 162nd Ave. Others avoided taking the MAX altogether. Anecdotal evidence suggested that people who live farther east in Gresham would not ride because they feared criminal activity related to the MAX.

As discussed previously, sidewalks were inadequate for the volume of pedestrians who needed them. We observed people stepping into the roadways to pass other pedestrians on their way to and from the MAX station. Fear of crime came up repeatedly during our audit and was the main reason non-riders gave for staying away from the MAX. It is unlikely these issues could be resolved without more government investment.

Solutions to these problems in the East 162nd study area would not be easy in ordinary circumstances, but they are made more difficult by the city limit boundary. When Portland and Gresham annexed the unincorporated area around East 162nd from Multnomah County in the 1980s, they established a boundary that followed a sewer line that zigzags around and through individual properties.

That decision created a state of jurisdictional confusion among residents. Planning and spending programs operated by both cities in our study area were largely uncoordinated. For example, there were two separate and uncoordinated urban renewal programs in the area, one in Gresham and one in Portland. However, Gresham's focus was east of the area while Portland's was to the west.

While TriMet and the municipalities agreed that the eastside MAX station areas need attention, we found no plan underway that would comprehensively address both sides of East 162nd Ave. In 2008, the City of Portland launched the Eastside MAX Station Communities Project to take "a comprehensive look at station community areas within one-half mile of light rail stations in Northeast and Southeast Portland." But when it got to East 162nd, the plan stopped at the city limit instead of encompassing the whole station area. We found no comparable effort on the Gresham side.

Without effective collaboration, investments were not maximized, the MAX Station was not prioritized, and land uses not optimized to increase ridership. An additional effect was that the civic needs of the residents were not met and their frustration mounted. Governments responsible for decision-making in the East 162nd area could increase the value of the MAX system by coordinating priorities, sharing resources, and focusing investments to maximize ridership.

Collaborative approach needed to be most effective

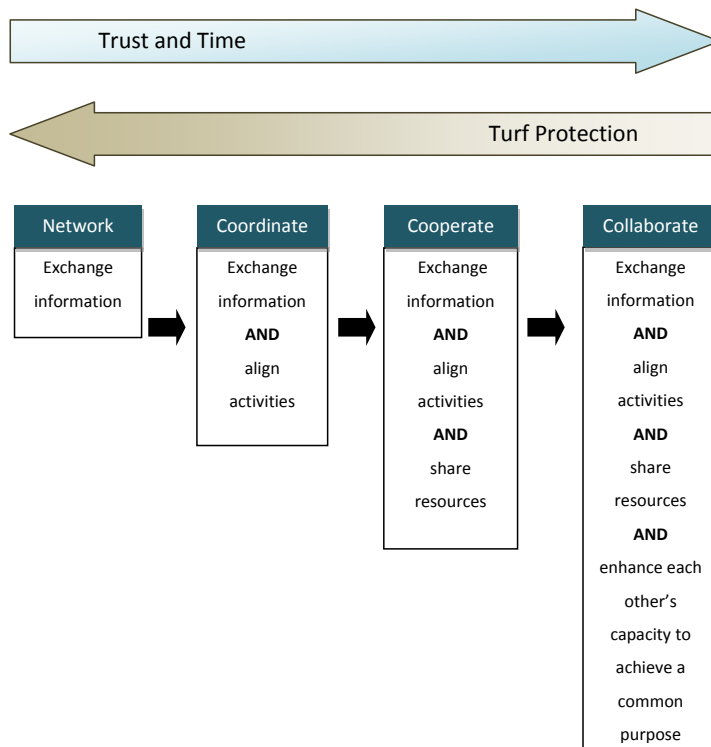
Metro is the regional planning and coordination agency for federal transportation funding. A policy advisory committee (JPACT) consisting of elected officials and transportation agency representatives, including three members of the Metro Council, makes recommendations to the full Metro Council on transportation priorities. Both JPACT and the Metro Council have to agree on projects before federal funds can be spent on them.

In an audit issued in 2010, we determined that Metro was successful in meeting federal planning requirements. It was less clear whether Metro succeeded in aligning transportation projects with larger goals designed to manage growth in the region. Projects were not developed as part of a concerted strategy. Most of the transportation projects that are funded came directly from the individual city and county jurisdictions' plans. Metro did not screen the list to determine if those locally planned projects supported regional goals and policies.

The MAX is a regional transportation system that touches most of the local jurisdictions represented on JPACT. It is also a key element in the region's strategy for keeping people and goods moving throughout the region. To make full use of this large regional investment required a commitment by JPACT to recommend projects, such as roadways, sidewalks, and safe pedestrian crossings designed to increase ridership.

Organizations often work together in a coalition for a common purpose. There are four recognized approaches for this effort described as networking, coordinating, cooperating, or collaborating. Each of these approaches can be appropriate depending on the degree to which three barriers to working together – time, trust, and turf protection – are present. When an organization acts in a collaborative way, resources are maximized and solutions to difficult problems can be found. See Exhibit 7.

Exhibit 7
Decision-making approaches



Based on: The Collaboration Primer by Gretchen Williams Torres and Frances S. Margolin and Collaboration for a Change by Arthur T. Himmelman.

During our audit, we found an example that illustrated the components and actions needed for a collaborative effort. Both the Cities of Portland and Gresham fire departments found ways to collaborate to varying degrees across the jurisdictional divide at East 162nd. Gresham and Portland firefighters shared a fire station and resources, which saved both cities money and improved service delivery. This collaboration between the two cities' fire departments had a mutual goal of public safety. The department shared resources, risks and responsibilities.

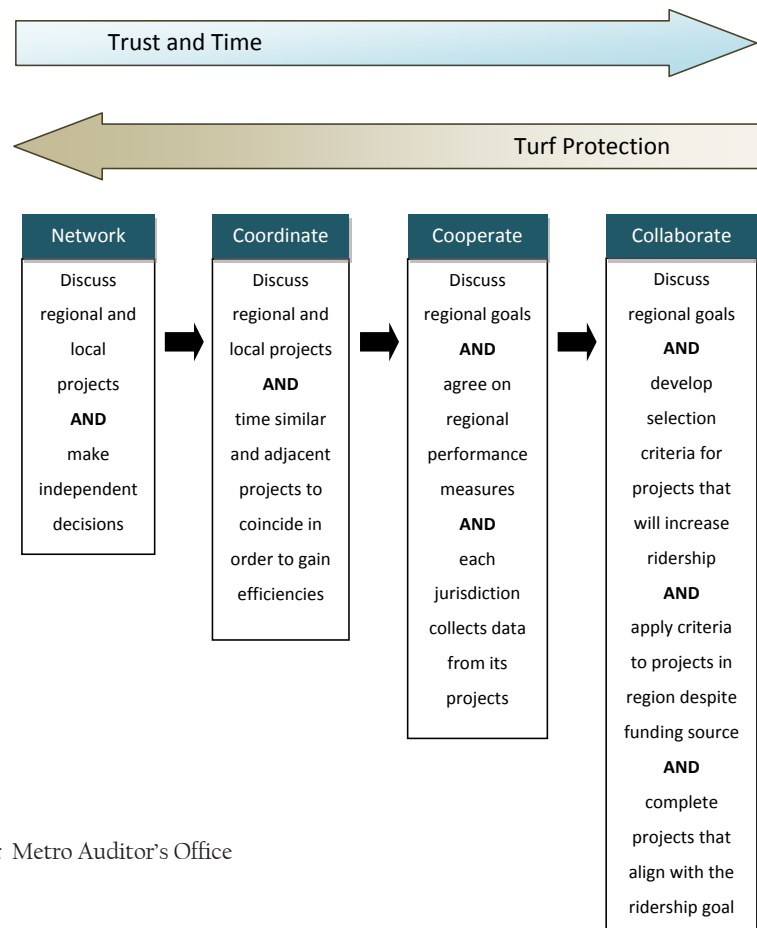
According to our survey of light rail riders and non-riders, efforts to increase ridership may require different strategies than those currently in place. Many of the strategies they mentioned would require enhancing TriMet's ability to effectively operate the MAX. This characteristic – enhancing each other's capacity to reach a common goal – suggests that a collaborative process is required.

An organization such as JPACT could be well positioned to do this. However, when we examined documents and written accounts of JPACT's funding recommendations in the last two years, we found that there was a low level of trust among JPACT members. Without trust, it was difficult for the group to pursue a common goal. Members were not willing to forgo their own community's projects for a regional goal. We found one instance where members approved specific selection criteria based on a common policy. However, that decision was not fully supported by the membership and was reversed in the next funding cycle.

We determined that JPACT recommendations were more closely related to a coordinating process where members exchange information and generally align activities. Based on its recent actions, we concluded that this group would find it more difficult to share resources. To be completely collaborative, JPACT would have to be strongly committed to a common goal and its members would relinquish local aspirations to the most pressing need in the region whether it benefited their jurisdiction directly or not. At this point, the key elements of trust and relinquishment of turf are not strong enough to effectively make collaborative regional decisions.

However, based on our case studies and the strategies they suggested, it is clear that Metro, TriMet or the local jurisdictions cannot effectively make improvements working independently. Further, because of the large public investment and value to the regional transportation system, it is important that the light rail be fully used. To get increased benefit from this resource, JPACT would need to act collaboratively. If that type of approach is not possible in the current environment, it should use other approaches until the barriers to collaboration – time, trust and turf protection - can be reduced. See Exhibit 8 for an application of the various approaches to potential JPACT actions.

Exhibit 8
Potential regional
decision-making approaches



Source: Metro Auditor’s Office

**Recommendations
from 2010 audit have
not been implemented**

It is standard audit practice to follow up on recommendations from prior reports in related areas previously assessed by the Metro Auditor. We found that recommendations made in a 2010 audit, Tracking Transportation Project Outcomes: *Better information needed to measure effectiveness*, had not been implemented.

In that audit, the Metro Auditor attempted to assess the effectiveness of transportation projects in helping the region achieve the goals outlined in Metro’s 2040 Plan. The audit found that the Planning Department had two core functions. It provided technical expertise and support for Metro’s role as the federally designated transportation planning organization. That process produced outputs, namely the long-range transportation plan and the short-term project prioritization program.

Planning’s second function was to support Metro’s long-range growth management plan, which contains specific outcomes for the region to achieve by 2040. The audit found the Planning Department was not organized or equipped to measure progress toward those outcomes.

The audit recommended that the Chief Operating Officer and the Planning Department improve Metro's ability to measure the outcomes of its transportation planning function. To do that, they needed to define roles and responsibilities for the evaluation of 2040 Plan outcomes, improve data collection and management within those roles, and improve the tools used to measure outcomes.

During this audit, we interviewed management to determine if the recommendations had been implemented. They had not. Since the original recommendations were made, Metro hired a new Chief Operating Officer and the Planning Department director took a leave of absence. During that time, an interim director led the Department. There had been turnover on the Metro Council as well. These changes may have contributed to the lack of attention to the recommendations.

Based on the findings in this audit, we believe the recommendations in the 2010 audit remain valid.

Recommendations

To improve the effectiveness of transportation plans and their intended outcomes, the Planning Department should:

1. Increase the use of place-specific analysis of transportation needs.
2. Assess and report on whether local transportation projects have increased the ability to achieve regional outcomes.
3. Increase the use of outcome measures:
 - a. Select a reasonable number of outcome measures that will enable an evaluation of the effectiveness of transportation strategies in maximizing the benefit of transportation funding;
 - b. Collect data needed to measure results at the appropriate level of measurement;
 - c. Include people who are affected by the plans in the measurement process;
 - d. Adjust plans and programs as needed based on actual quantitative and qualitative data;
4. Assess and respond to any inequitable outcomes of funding decisions:
 - a. Determine which funding mechanisms for transportation projects lead to inequitable investment patterns;
 - b. Mitigate the inequities by altering the mechanisms or funding projects through other means.
5. Periodically report to the Metro Council and JPACT on actions that will improve the effectiveness of transportation funding decisions in achieving regional goals. Identify barriers to achieving the goals and make suggestions for improvement.

Management Response



Metro | Memo

Date: Tuesday, June 11, 2013
To: Suzanne Flynn, Metro Auditor
From: Martha Bennett, Chief Operating Officer *MJB*
Robin McArthur, AICP, Planning and Development Director *Rmc*
Subject: Management response to Light Rail Transit Audit

Dear Auditor Flynn:

Thank you for undertaking an initial look at three light rail transit station areas in the Portland metropolitan area to assess the effectiveness of various investment strategies on transit ridership.

The Region 2040 Growth Concept, the blueprint for growth and development in the Portland metro area, was adopted almost 20 years ago to improve livability, foster jobs, protect farm and forest land, provide access to nature, and reduce greenhouse gas emissions. Your audit correctly notes that the Joint Policy Advisory Committee on Transportation and the Metro Council are committed to increasing travel options for the residents and employees of this region consistent with the Region 2040 Growth Concept. A centerpiece of that strategy is to build high capacity transit corridors which connect our more densely developed downtowns, main streets and employment areas and to promote mixed-use, transit-friendly development in station areas.

I am pleased to highlight one of your findings: transit ridership increased at all three station areas that you studied. Your audit goes on to state that you were unable to determine the cause and effect relationship between the specific planning strategies you chose to evaluate and ridership. Rather, you based your recommendations on an assessment of a bundle of strategies being implemented at each station. By using a survey instrument targeted at station-area residents, you acquired some public opinion input on other strategies that may increase transit ridership.

Surprisingly, ridership increased the most at a station where the audit identified the most problems with coordinated public investment. The East 162nd station is one of the oldest stations in the system. It was built over 20 years ago along the region's first light rail transit line from downtown Portland to Gresham.

Your audit reinforces some of the key findings gleaned from national and local studies on factors that influence transit use: density, design, income and access are key determinants of ridership. We can maximize the public's investment in our high capacity transit system by focusing on these factors. As noted below, the region has embarked on a new approach to corridor planning which, in fact, is doing just that.

Over the years, Metro, Tri-Met and our city and county partners have become more sophisticated both in terms of where to locate stations along an alignment as well as how to proactively engage

community interests in developing well designed station area plans and development strategies. Much as your audit points out, all of the governments in the region have learned that strong coordination across jurisdictions and different services are essential to achieving our goals for both vibrant communities and strategic transportation investments. The SW Corridor Plan is an example of that new approach.

This summer, the elected officials representing communities in the SW Corridor will decide which transit options should move into the next phase of environmental assessment. The decision will represent the culmination of two years worth of work that began with each community articulating how and where it wants to grow and develop. Transportation solutions, including potential station area locations, have evolved from those community based plans.

The approach also reinforces the need for a coordinated investment strategy for each station area. The plan that is ultimately adopted will indicate who is responsible for which investments designed to increase travel choices. For example, a local community will need to commit to actions such as increasing zoned densities, building sidewalks and offering development incentives to ensure that the region's investment in high capacity transit and other public infrastructure is successful. The region will need to commit to evaluating and building the preferred transit solution. TriMet will need to commit to providing enhanced transit service. That explains why the study includes an extensive analysis of development potential and job creation, sidewalk/bikeway/roadway needs, socioeconomic and health conditions, and parks and open space along with an evaluation of transit alternatives.

This approach models some of the points you raised in your audit including the need to use public dollars wisely, focus on place-based analysis and investments, coordinate investments among various partners, and measure progress toward desired outcomes.

Below is our response to the audit recommendations.

1) **Increase the use of place-based analysis of transportation needs.**

We concur with your assessment. It is critically important to evaluate how various policies and investments affect development patterns, transportation choices, and quality of life for our residents and employees.

We have been evolving new and better ways to do that over the past several years including:

- Refining our approach to corridor planning (e.g., East Metro Connections Plan, SW Corridor Study)
- Assessing site-specific development needs and identifying the right combination of strategies necessary to foster creation of jobs, housing and community amenities (e.g., Industrial Lands Inventory, Fall 2012, Transit Oriented Development Program).
- Developing a broader array of tools to help communities at different levels of development readiness (e.g., development tool kits, case studies, planning and development grants).

2) **Assess and report on whether local transportation projects have increased the ability to achieve regional outcomes.**

The Regional Transportation Plan (RTP) update process includes an aggregate assessment of existing and proposed transportation improvements. It is an effective tool to highlight “gaps” in the overall network, congestion bottlenecks, and system inefficiencies. Importantly, it also provides insights on whether cumulative investments in the transportation system are helping us meet our vision as articulated in the Region 2040 growth concept and embodied in the land use and transportation system plans of all 28 jurisdictions in the Metro boundary. We continually seek improvements in the transportation system by incorporating these findings into each RTP update process.

As you point out, however, a finer level of analysis that more clearly evaluates the cause and effect relationship of specific investment strategies on shared local and regional outcomes would be beneficial. This type of evaluation requires a more refined array of evaluation tools than are currently in place in the Portland metro area and around the nation.

The task may sound easier to do than it really is. Most transportation models, like the one we use for the RTP, evaluate how decades of transportation investments worth billions of dollars affect system-wide performance. It is extremely difficult, therefore, to discern the benefits and costs associated with construction of a single new facility on overall system performance.

Fortunately, there is a national movement afoot to develop more sophisticated modeling techniques to answer the kinds of questions posed in your audit. We are testing some of those techniques locally as part of the Climate Smart Communities project and hope to apply our new knowledge to other transportation endeavors.

3) **Increase the use of outcomes measures.**

The Metro/JPACT adopted 2035 Regional Transportation Plan made significant progress on this front. It embraced an “outcomes-based” approach in an effort to achieve Six Desired Outcomes: vibrant downtowns and main streets, jobs, equity, access to nature, more transportation choices and reduction in greenhouse gas emissions. The policy framework and list of projects included in the plan were developed to meet those outcomes. The approach received national recognition and an EPA “Smart Growth” award.

As you noted in your audit, Congress has awakened to this type of approach. Last summer, it passed MAP-21, new federal transportation legislation governing the planning, development, construction and management of the nation’s transportation system.

We just embarked on the next RTP update. The RTP adopted in mid-2014 will incorporate all federal requirements related to measuring outcomes and improving system performance.

4) **Assess and respond to any inequitable outcomes of funding decisions.**

One of the region's adopted Six Desired Outcomes is to ensure that the benefits and burdens of growth are shared equitably within the region. Over the past few years, Metro has enhanced its capacity to engage a broader range of community partners and assess how various transportation improvements may affect low income and minority populations.

The Regional Flexible Funds Allocation (RFFA) process is a prime example of how far we've come. Metro includes a thorough evaluation of the aggregate burdens and benefits of proposed funding allocation packages on minority populations and the traditionally underserved. This analysis is shared with JPACT, the Metro Council and the public in the decision-making process. Our approach is consistent with all federal and state requirements and in many cases goes beyond those requirements to ensure the adoption of fair and equitable solutions.

- 5) **Periodically report to the Metro Council and JPACT on actions that will improve the effectiveness of transportation funding decisions in achieving regional goals. Identify barriers to achieving the goals and make suggestions for improvement.**

Metro periodically reports to the Metro Council, JPACT, the Metropolitan Policy Advisory Committee and the public on ways to improve the effectiveness of the transportation system. This happens in the context of the RTP update process as well as during local transportation system planning efforts. We are constantly looking at ways to reduce transportation bottlenecks, enhance mobility in the region's corridors (e.g., East Metro Connections Plan, SW Corridor Plan), improve safety (Safety Action Plan), add critical freight, bike and pedestrian connections, and provide access to jobs, housing, and natural areas.

A large barrier to achieving our livability goals is the lack of sufficient dollars to invest in our transportation system. Regional forecasting suggests that if we had sufficient dollars to fund the high capacity transit, roadway, bikeway and walkway improvements included in our regional and local land use and transportation system plans, we would have more vibrant communities, more travel options, more jobs, better access to nature, and a more equitable environment for our citizens.

cc:
Scott Robinson
Elissa Gertler
John Williams
Megan Gibb

Appendices

Appendix 1 Survey methodology

We conducted the residential survey from July 11 to August 14, 2012, and received 406 valid responses. We could not calculate a response rate because we invited households to participate rather than individuals. The responses were distributed among the three study areas as follows:

| | Tuality Hospital | Killingsworth | East 162 nd |
|---------------------------|------------------|---------------|------------------------|
| Count (% of total) | 72 (18%) | 156 (38%) | 178 (44%) |
| Riders (% by area) | 40 (56%) | 120 (77%) | 115 (65%) |
| Non-riders (% by area) | 32 (44%) | 36 (23%) | 63 (35%) |

We mailed postcards to residential addresses within a quarter-mile of the MAX stations to announce the survey and provide information about how to access it. During the survey period, we went door-to-door, distributed flyers, and attended community events to encourage people to respond. As an incentive, respondents could enter a drawing for a \$50 gift card.

The surveys were available in electronic and hardcopy formats and in English and Spanish. We tailored the text to the individual locations, but kept the substance of the questions the same.

We sought input from riders and non-riders. Riders were asked questions to determine the effect of the strategies on their MAX use. Non-riders, whom we defined as those who had not used the MAX in the previous month, were asked why they had not. Both groups were asked what changes would lead them to ride more.

We used a five-point scale to test relative agreement or disagreement of riders with a series of statements related to the individual ridership strategies. The survey also provided an option to indicate if a statement did not apply to them. The strategies were described as:

- Placing retail businesses and services near stations;
- Increasing residential options near stations;
- Enabling a sense of personal safety in the neighborhood, at the station, and on MAX trains;
- Improving sidewalks, crosswalks, and bike lanes near stations;
- Encouraging people to drive less and use other travel methods.

The final statement tested whether the combination of the strategies in their study area made the riders more likely to use the MAX.

Variation in our outreach activities may have affected the proportion of riders and non-riders who responded. For example, we spent less time going door-to-door in Killingsworth because residents from that study area were more likely to respond on-line. That may have led to non-riders being under-represented in that study area compared to the other two.

Appendix 2 - Metro survey results

| Do you live within the boundary of the map area? | Tuality Hospital | Killingsworth | East 162nd | Total |
|--|------------------|---------------|------------|-------|
| Yes | 100% | 100% | 100% | 100% |
| <i>Responses</i> | 72 | 156 | 178 | 406 |

| Did you live in your current home before your MAX line started operating? | Tuality Hospital | Killingsworth | East 162nd | Total |
|---|------------------|---------------|------------|-------|
| Yes | 37% | 29% | 8% | 22% |
| No | 63% | 71% | 92% | 78% |
| <i>Responses</i> | 71 | 156 | 177 | 404 |

| Do you think that, overall, the MAX line is good for your neighborhood? | Tuality Hospital | Killingsworth | East 162nd | Total |
|---|------------------|---------------|------------|-------|
| Agree | 84% | 94% | 77% | 85% |
| Disagree | 6% | 4% | 15% | 9% |
| Don't know | 10% | 2% | 8% | 6% |
| <i>Responses</i> | 71 | 156 | 176 | 403 |

| Do you usually have a working car, truck, or motorcycle available for your use? | Tuality Hospital | Killingsworth | East 162nd | Total |
|---|------------------|---------------|------------|-------|
| Yes | 76% | 80% | 62% | 71% |
| No | 24% | 20% | 38% | 29% |
| <i>Responses</i> | 71 | 156 | 177 | 404 |

| How do you usually get around? | Tuality Hospital | Killingsworth | East 162nd | Total |
|--------------------------------|------------------|---------------|------------|-------|
| Car/Truck/Motorcycle | 62% | 50% | 51% | 52% |
| Bus/MAX | 24% | 26% | 45% | 34% |
| Bicycle | 1% | 17% | 2% | 8% |
| Walk | 13% | 7% | 2% | 6% |
| <i>Responses</i> | 63 | 155 | 171 | 389 |

| Have you used your MAX line in the past 30 days? | Tuality Hospital | Killingsworth | East 162nd | Total |
|--|------------------|---------------|------------|-------|
| Yes (riders) | 56% | 77% | 65% | 68% |
| No (non-riders) | 44% | 23% | 35% | 32% |
| <i>Responses</i> | 72 | 156 | 178 | 406 |

Questions for riders only

| In the past 30 days, how often did you use your MAX line? | Tuality Hospital | Killingsworth | East 162nd | Total |
|---|------------------|---------------|------------|-------|
| Almost every day | 13% | 24% | 42% | 30% |
| One to three times per week | 37% | 40% | 29% | 35% |
| A couple of times | 42% | 26% | 26% | 28% |
| Once | 8% | 10% | 3% | 7% |
| <i>Responses</i> | 38 | 120 | 113 | 271 |

| In the past 30 days, which MAX station did you use the most? | Tuality Hospital | Killingsworth | East 162nd | Total |
|--|------------------|---------------|------------|-------|
| Study area station | 87% | 96% | 93% | 100% |
| <i>Responses</i> | 38 | 120 | 113 | 271 |

| In the past 30 days, what was the main purpose of most of your MAX trips? | Tuality Hospital | Killingsworth | East 162nd | Total |
|---|------------------|---------------|------------|-------|
| Commute to work or school | 21% | 44% | 36% | 37% |
| Personal business/recreation/other | 79% | 56% | 64% | 63% |
| <i>Responses</i> | 39 | 120 | 109 | 268 |

| Compared to a year ago, do you use the MAX more or less? | Tuality Hospital | Killingsworth | East 162nd | Total |
|--|------------------|---------------|------------|-------|
| More | 31% | 29% | 29% | 29% |
| Same | 54% | 51% | 55% | 53% |
| Less | 15% | 14% | 9% | 12% |
| Does not apply to me | 0% | 6% | 7% | 6% |
| Responses | 39 | 120 | 112 | 271 |

The following statements referenced maps of individual study areas.

| New shops, schools, and businesses in the map area are an improvement. | Tuality Hospital | Killingsworth | East 162nd | Total |
|--|------------------|---------------|------------|-------|
| Strongly disagree | 3% | 1% | 4% | 2% |
| Disagree | 8% | 2% | 17% | 9% |
| Neutral | 28% | 10% | 30% | 21% |
| Agree | 26% | 35% | 24% | 29% |
| Strongly agree | 33% | 51% | 16% | 34% |
| Does not apply to me | 2% | 1% | 9% | 5% |
| Responses | 39 | 118 | 108 | 265 |

| The appearance of some existing businesses in the map area has been improved. | Tuality Hospital | Killingsworth | East 162nd | Total |
|---|------------------|---------------|------------|-------|
| Strongly disagree | 5% | 1% | 5% | 3% |
| Disagree | 10% | 1% | 25% | 12% |
| Neutral | 20% | 20% | 29% | 24% |
| Agree | 53% | 47% | 28% | 40% |
| Strongly agree | 10% | 29% | 8% | 18% |
| Does not apply to me | 2% | 2% | 5% | 3% |
| Responses | 40 | 119 | 110 | 269 |

| I shop at the stores in the map area. | Tuality Hospital | Killingsworth | East 162nd | Total |
|---------------------------------------|------------------|---------------|------------|-------|
| Strongly disagree | 5% | 1% | 6% | 4% |
| Disagree | 3% | 10% | 10% | 9% |
| Neutral | 10% | 16% | 14% | 14% |
| Agree | 52% | 38% | 45% | 43% |
| Strongly agree | 30% | 35% | 25% | 30% |
| Does not apply to me | 0% | 0% | 0% | 0% |
| Responses | 40 | 117 | 110 | 267 |

| I eat at restaurants in the map area. | Tuality Hospital | Killingsworth | East 162nd | Total |
|---------------------------------------|------------------|---------------|------------|-------|
| Strongly disagree | 10% | 1% | 10% | 6% |
| Disagree | 5% | 8% | 20% | 12% |
| Neutral | 8% | 7% | 9% | 8% |
| Agree | 47% | 39% | 42% | 42% |
| Strongly agree | 25% | 43% | 17% | 30% |
| Does not apply to me | 5% | 2% | 2% | 2% |
| Responses | 40 | 117 | 111 | 268 |

| I go to doctors or health services in the map area. | Tuality Hospital | Killingsworth | East 162nd | Total |
|---|------------------|---------------|------------|-------|
| Strongly disagree | 13% | 18% | 21% | 18% |
| Disagree | 5% | 31% | 35% | 29% |
| Neutral | 3% | 8% | 7% | 7% |
| Agree | 23% | 14% | 10% | 13% |
| Strongly agree | 36% | 9% | 13% | 15% |
| Does not apply to me | 20% | 20% | 14% | 18% |
| Responses | 39 | 118 | 110 | 267 |

| My children go to school or daycare in the map area. | Tuality Hospital | Killingsworth | East 162nd | Total |
|--|------------------|---------------|------------|-------|
| Strongly disagree | 5% | 6% | 9% | 7% |
| Disagree | 8% | 7% | 18% | 12% |
| Neutral | 5% | 5% | 6% | 5% |
| Agree | 5% | 3% | 8% | 6% |
| Strongly agree | 12% | 6% | 9% | 8% |
| Does not apply to me | 65% | 73% | 50% | 62% |
| Responses | 40 | 118 | 110 | 268 |

| I am more likely to take the MAX because of the businesses in the map area. | Tuality Hospital | Killingsworth | East 162nd | Total |
|---|------------------|---------------|------------|-------|
| Strongly disagree | 13% | 8% | 18% | 13% |
| Disagree | 18% | 31% | 19% | 24% |
| Neutral | 27% | 31% | 20% | 26% |
| Agree | 20% | 14% | 19% | 17% |
| Strongly agree | 7% | 7% | 15% | 10% |
| Does not apply to me | 15% | 9% | 9% | 10% |
| Responses | 40 | 118 | 108 | 266 |

| The MAX line was among the reasons I moved to the map area. | Tuality Hospital | Killingsworth | East 162nd | Total |
|---|------------------|---------------|------------|-------|
| Strongly disagree | 8% | 5% | 10% | 9% |
| Disagree | 15% | 5% | 12% | 9% |
| Neutral | 13% | 12% | 15% | 13% |
| Agree | 18% | 30% | 27% | 27% |
| Strongly agree | 23% | 36% | 27% | 30% |
| Does not apply to me | 23% | 12% | 9% | 12% |
| Responses | 39 | 119 | 108 | 266 |

| Creating housing in the map area is a good idea. | Tuality Hospital | Killingsworth | East 162nd | Total |
|--|------------------|---------------|------------|-------|
| Strongly disagree | 8% | 4% | 7% | 6% |
| Disagree | 8% | 7% | 12% | 9% |
| Neutral | 31% | 17% | 16% | 19% |
| Agree | 36% | 36% | 29% | 33% |
| Strongly agree | 15% | 36% | 35% | 32% |
| Does not apply to me | 2% | 0% | 1% | 1% |
| Responses | 39 | 118 | 109 | 266 |

| New housing in the map area improved the area. | Tuality Hospital | Killingsworth | East 162nd | Total |
|--|------------------|---------------|------------|-------|
| Strongly disagree | 2% | 4% | 10% | 7% |
| Disagree | 5% | 9% | 14% | 10% |
| Neutral | 49% | 30% | 24% | 30% |
| Agree | 31% | 32% | 32% | 32% |
| Strongly agree | 8% | 24% | 18% | 19% |
| Does not apply to me | 5% | 1% | 2% | 2% |
| Responses | 39 | 115 | 110 | 264 |

| I am more likely to take the MAX because people live near the station. | Tuality Hospital | Killingsworth | East 162nd | Total |
|--|------------------|---------------|------------|-------|
| Strongly disagree | 10% | 4% | 12% | 8% |
| Disagree | 16% | 14% | 8% | 11% |
| Neutral | 23% | 37% | 30% | 32% |
| Agree | 23% | 18% | 20% | 20% |
| Strongly agree | 23% | 19% | 26% | 23% |
| Does not apply to me | 5% | 8% | 4% | 6% |
| Responses | 39 | 119 | 112 | 270 |

| I feel safe walking to and from the MAX station. | Tuality Hospital | Killingsworth | East 162nd | Total |
|---|-------------------------|----------------------|-------------------|--------------|
| Strongly disagree | 0% | 1% | 27% | 11% |
| Disagree | 5% | 5% | 22% | 12% |
| Neutral | 7% | 7% | 23% | 13% |
| Agree | 50% | 50% | 19% | 38% |
| Strongly agree | 38% | 37% | 9% | 26% |
| Does not apply to me | 0% | 0% | 0% | 0% |
| <i>Responses</i> | 40 | 119 | 110 | 269 |

| I feel safe while at the MAX station. | Tuality Hospital | Killingsworth | East 162nd | Total |
|--|-------------------------|----------------------|-------------------|--------------|
| Strongly disagree | 3% | 0% | 29% | 12% |
| Disagree | 5% | 4% | 18% | 10% |
| Neutral | 10% | 11% | 23% | 16% |
| Agree | 52% | 54% | 19% | 40% |
| Strongly agree | 30% | 31% | 11% | 22% |
| Does not apply to me | 0% | 0% | 0% | 0% |
| <i>Responses</i> | 40 | 118 | 112 | 270 |

| I feel safe while waiting for the train at the East 162nd Ave. MAX Station because of the piped-in music. | Tuality Hospital | Killingsworth | East 162nd | Total |
|--|-------------------------|----------------------|-------------------|--------------|
| Strongly disagree | -- | -- | 38% | -- |
| Disagree | -- | -- | 20% | -- |
| Neutral | -- | -- | 25% | -- |
| Agree | -- | -- | 12% | -- |
| Strongly agree | -- | -- | 5% | -- |
| Does not apply to me | -- | -- | 0% | -- |
| <i>Responses</i> | -- | -- | 110 | -- |

| I feel safe while riding the MAX line. | Tuality Hospital | Killingsworth | East 162nd | Total |
|---|-------------------------|----------------------|-------------------|--------------|
| Strongly disagree | 0% | 1% | 17% | 7% |
| Disagree | 8% | 5% | 8% | 7% |
| Neutral | 8% | 15% | 25% | 18% |
| Agree | 63% | 49% | 32% | 44% |
| Strongly agree | 23% | 30% | 16% | 23% |
| Does not apply to me | 0% | 0% | 1% | 0% |
| <i>Responses</i> | 40 | 119 | 111 | 270 |

| I am more likely to take the MAX because overall I feel safe using it. | Tuality Hospital | Killingsworth | East 162nd | Total |
|---|-------------------------|----------------------|-------------------|--------------|
| Strongly disagree | 3% | 2% | 20% | 9% |
| Disagree | 8% | 7% | 14% | 10% |
| Neutral | 25% | 29% | 30% | 29% |
| Agree | 47% | 44% | 25% | 37% |
| Strongly agree | 15% | 17% | 9% | 13% |
| Does not apply to me | 2% | 1% | 2% | 2% |
| <i>Responses</i> | 40 | 119 | 112 | 271 |

| Parking around the MAX station is well-managed. | Tuality Hospital | Killingsworth | East 162nd | Total |
|--|-------------------------|----------------------|-------------------|--------------|
| Strongly disagree | 3% | 4% | 25% | 13% |
| Disagree | 10% | 11% | 19% | 14% |
| Neutral | 8% | 26% | 18% | 20% |
| Agree | 32% | 14% | 12% | 16% |
| Strongly agree | 10% | 1% | 4% | 3% |
| Does not apply to me | 37% | 44% | 22% | 34% |
| <i>Responses</i> | 38 | 119 | 107 | 264 |

| Traffic around the MAX station is well-managed. | Tuality Hospital | Killingsworth | East 162nd | Total |
|--|-------------------------|----------------------|-------------------|--------------|
| Strongly disagree | 3% | 4% | 11% | 7% |
| Disagree | 3% | 8% | 18% | 12% |
| Neutral | 10% | 23% | 28% | 23% |
| Agree | 60% | 55% | 32% | 46% |
| Strongly agree | 16% | 7% | 6% | 8% |
| Does not apply to me | 8% | 3% | 5% | 4% |
| <i>Responses</i> | 38 | 119 | 106 | 263 |

| Sidewalks and crosswalks in the map area have been improved. | Tuality Hospital | Killingsworth | East 162nd | Total |
|---|-------------------------|----------------------|-------------------|--------------|
| Strongly disagree | 3% | 2% | 8% | 4% |
| Disagree | 8% | 7% | 13% | 10% |
| Neutral | 16% | 29% | 33% | 29% |
| Agree | 58% | 44% | 34% | 42% |
| Strongly agree | 10% | 15% | 7% | 11% |
| Does not apply to me | 5% | 3% | 5% | 4% |
| <i>Responses</i> | 38 | 119 | 103 | 260 |

| Bike lanes and/or bike parking in the map area have been improved. | Tuality Hospital | Killingsworth | East 162nd | Total |
|---|-------------------------|----------------------|-------------------|--------------|
| Strongly disagree | 8% | 1% | 7% | 4% |
| Disagree | 13% | 11% | 20% | 15% |
| Neutral | 32% | 23% | 34% | 28% |
| Agree | 29% | 39% | 22% | 31% |
| Strongly agree | 8% | 13% | 6% | 10% |
| Does not apply to me | 10% | 13% | 11% | 12% |
| <i>Responses</i> | 38 | 119 | 107 | 264 |

| I am more likely to take the MAX because of work done in the map area on sidewalks, crosswalks, and bike improvements. | Tuality Hospital | Killingsworth | East 162nd | Total |
|---|-------------------------|----------------------|-------------------|--------------|
| Strongly disagree | 5% | 1% | 12% | 6% |
| Disagree | 20% | 25% | 12% | 19% |
| Neutral | 36% | 37% | 36% | 36% |
| Agree | 18% | 24% | 33% | 27% |
| Strongly agree | 8% | 11% | 5% | 8% |
| Does not apply to me | 13% | 2% | 2% | 4% |
| <i>Responses</i> | 39 | 119 | 109 | 267 |

| I have received messages or materials at home asking me to drive less. | Tuality Hospital | Killingsworth | East 162nd | Total |
|---|-------------------------|----------------------|-------------------|--------------|
| Strongly disagree | 6% | 10% | 17% | 13% |
| Disagree | 32% | 29% | 31% | 30% |
| Neutral | 16% | 12% | 14% | 13% |
| Agree | 16% | 31% | 13% | 21% |
| Strongly agree | 6% | 6% | 3% | 5% |
| Does not apply to me | 24% | 12% | 22% | 18% |
| <i>Responses</i> | 37 | 117 | 109 | 263 |

| I have received messages or materials at work asking me to drive less. | Tuality Hospital | Killingsworth | East 162nd | Total |
|---|-------------------------|----------------------|-------------------|--------------|
| Strongly disagree | 5% | 12% | 14% | 12% |
| Disagree | 26% | 26% | 28% | 27% |
| Neutral | 13% | 9% | 12% | 11% |
| Agree | 19% | 20% | 15% | 18% |
| Strongly agree | 5% | 7% | 2% | 4% |
| Does not apply to me | 32% | 26% | 29% | 28% |
| <i>Responses</i> | 38 | 117 | 108 | 263 |

| I drive less because of the information I have received. | Tuality Hospital | Killingsworth | East 162nd | Total |
|--|------------------|---------------|------------|-------|
| Strongly disagree | 5% | 6% | 17% | 10% |
| Disagree | 45% | 37% | 29% | 35% |
| Neutral | 13% | 15% | 14% | 15% |
| Agree | 11% | 9% | 8% | 9% |
| Strongly agree | 0% | 1% | 0% | 0% |
| Does not apply to me | 26% | 32% | 32% | 31% |
| Responses | 38 | 118 | 108 | 264 |

| I am more likely to take the MAX because of information I have received. | Tuality Hospital | Killingsworth | East 162nd | Total |
|--|------------------|---------------|------------|-------|
| Strongly disagree | 5% | 8% | 16% | 11% |
| Disagree | 38% | 34% | 27% | 31% |
| Neutral | 24% | 20% | 22% | 22% |
| Agree | 8% | 11% | 11% | 11% |
| Strongly agree | 0% | 3% | 2% | 2% |
| Does not apply to me | 24% | 24% | 23% | 23% |
| Responses | 37 | 118 | 109 | 264 |

| I am more likely to take the MAX because the map area overall has improved since the line began operating. | Tuality Hospital | Killingsworth | East 162nd | Total |
|--|------------------|---------------|------------|-------|
| Strongly disagree | 5% | 2% | 17% | 8% |
| Disagree | 10% | 15% | 11% | 13% |
| Neutral | 23% | 27% | 28% | 27% |
| Agree | 44% | 32% | 26% | 32% |
| Strongly agree | 8% | 15% | 8% | 11% |
| Does not apply to me | 10% | 9% | 10% | 9% |
| Responses | 39 | 117 | 110 | 266 |

Questions for non-riders only

| When was the last time you used your MAX line? | Tuality Hospital | Killingsworth | East 162nd | Total |
|--|------------------|---------------|------------|-------|
| Less than 2 months ago | 19% | 28% | 19% | 22% |
| 2 to 6 months ago | 29% | 33% | 21% | 26% |
| More than 6 months ago | 49% | 39% | 43% | 43% |
| I have never used it. | 3% | 0% | 17% | 9% |
| Responses | 31 | 36 | 63 | 130 |

| Compared to a year ago, do you use the MAX more or less now? | Tuality Hospital | Killingsworth | East 162nd | Total |
|--|------------------|---------------|------------|-------|
| More | 16% | 6% | 6% | 8% |
| Same | 44% | 55% | 29% | 40% |
| Less | 28% | 31% | 36% | 33% |
| Does not apply to me | 12% | 8% | 29% | 19% |
| Responses | 32 | 36 | 63 | 131 |

| What are all the reasons you did not use the MAX in the past 30 days? | Tuality Hospital | Killingsworth | East 162nd | Total |
|---|------------------|---------------|------------|-------|
| Trips take too long. | 11% | 13% | 6% | 9% |
| MAX does not go where I want to go. | 21% | 13% | 9% | 13% |
| MAX does not operate during the hours I travel. | 1% | 0% | 2% | 1% |
| MAX trips are more expensive than my other options. | 5% | 14% | 5% | 8% |
| I need my car for errands. | 21% | 17% | 23% | 21% |
| There is convenient parking where I go. | 10% | 10% | 9% | 9% |
| There is free parking where I go. | 8% | 12% | 5% | 8% |
| The walk to the station is unpleasant. | 0% | 2% | 9% | 5% |
| I fear for my personal safety. | 7% | 6% | 19% | 12% |
| I am opposed to the MAX. | 1% | 0% | 1% | 1% |
| Other | 15% | 13% | 12% | 13% |
| Responses | 87 | 103 | 138 | 328 |

| What is the main reason you did not use the MAX in the past 30 days? | Tuality Hospital | Killingsworth | East 162nd | Total |
|--|------------------|---------------|------------|-------|
| Trips take too long. | 13% | 22% | 5% | 12% |
| MAX does not go where I want to go. | 30% | 17% | 9% | 16% |
| MAX does not operate during the hours I travel. | 0% | 0% | 4% | 2% |
| MAX trips are more expensive than my other options. | 3% | 11% | 4% | 6% |
| I need my car for errands. | 27% | 17% | 27% | 24% |
| There is convenient parking where I go. | 7% | 3% | 7% | 6% |
| There is free parking where I go. | 0% | 6% | 0% | 2% |
| The walk to the station is unpleasant. | 0% | 0% | 0% | 0% |
| I fear for my personal safety. | 3% | 3% | 30% | 16% |
| I am opposed to the MAX. | 0% | 0% | 0% | 0% |
| Other | 17% | 21% | 14% | 16% |
| <i>Responses</i> | 30 | 36 | 56 | 122 |

Questions for all

| I would ride the MAX more if there were: (check all that apply) | Tuality Hospital | Killingsworth | East 162nd | Total |
|---|------------------|---------------|------------|-------|
| more frequent MAX service | 5% | 11% | 6% | 7% |
| more destinations that interested me | 9% | 6% | 6% | 6% |
| quicker trips | 12% | 8% | 6% | 8% |
| fewer transfers | 2% | 4% | 4% | 4% |
| better bus connections between MAX and my destination | 6% | 4% | 5% | 5% |
| lower TriMet fares | 11% | 12% | 9% | 10% |
| more police patrolling MAX stations | 9% | 5% | 10% | 8% |
| more police on the train | 7% | 4% | 10% | 7% |
| more TriMet fare enforcement | 8% | 5% | 6% | 6% |
| a more pleasant walking environment near the MAX station | 3% | 4% | 9% | 7% |
| more stores or restaurants near the station | 4% | 5% | 6% | 6% |
| more doctors, daycare, or schools near the MAX station | 1% | 1% | 4% | 3% |
| free or discounted transit passes available to me | 12% | 13% | 8% | 10% |
| better information about how to use the MAX system | 2% | 1% | 2% | 2% |
| higher gas prices | 3% | 6% | 4% | 4% |
| higher parking prices | 1% | 3% | 1% | 2% |
| other | 5% | 8% | 4% | 5% |
| <i>Responses</i> | 303 | 594 | 993 | 1,890 |

| I would ride the MAX more if there were: (check most important) | Tuality Hospital | Killingsworth | East 162nd | Total |
|---|------------------|---------------|------------|-------|
| more frequent MAX service | 2% | 20% | 6% | 11% |
| more destinations that interested me | 18% | 7% | 4% | 8% |
| quicker trips | 15% | 8% | 4% | 8% |
| fewer transfers | 0% | 2% | 2% | 2% |
| better bus connections between MAX and my destination | 10% | 2% | 1% | 3% |
| lower TriMet fares | 10% | 16% | 12% | 13% |
| more police patrolling MAX stations | 6% | 3% | 19% | 10% |
| more police on the train | 7% | 4% | 13% | 9% |
| more TriMet fare enforcement | 1% | 1% | 3% | 2% |
| a more pleasant walking environment near the MAX station | 0% | 1% | 9% | 4% |
| more stores or restaurants near the station | 0% | 1% | 2% | 1% |
| more doctors, daycare, or schools near the MAX station | 0% | 0% | 1% | 0% |
| free or discounted transit passes available to me | 19% | 12% | 12% | 13% |
| better information about how to use the MAX system | 1% | 1% | 1% | 1% |
| higher gas prices | 4% | 4% | 3% | 4% |
| higher parking prices | 0% | 1% | 0% | 1% |
| other | 7% | 17% | 8% | 10% |
| <i>Responses</i> | 68 | 152 | 163 | 383 |

| What is your gender? | Tuality Hospital | Killingsworth | East 162nd | Total |
|----------------------|------------------|---------------|------------|-------|
| Female | 52% | 60% | 58% | 58% |
| Male | 48% | 40% | 42% | 42% |
| <i>Responses</i> | 71 | 151 | 170 | 392 |

| Are you of Hispanic, Latino, or Spanish origin? | Tuality Hospital | Killingsworth | East 162nd | Total |
|---|------------------|---------------|------------|-------|
| Yes | 17% | 3% | 13% | 10% |
| No | 83% | 97% | 87% | 90% |
| <i>Responses</i> | 69 | 152 | 166 | 387 |

| What is your race? | Tuality Hospital | Killingsworth | East 162nd | Total |
|----------------------------------|------------------|---------------|------------|-------|
| White | 95% | 90% | 75% | 84% |
| Black/African American | 2% | 6% | 11% | 7% |
| American Indian/Alaska Native | 2% | 0% | 1% | 1% |
| Asian | 0% | 1% | 4% | 2% |
| Native Hawaiian/Pacific Islander | 0% | 0% | 1% | 1% |
| Some other race | 1% | 3% | 8% | 5% |
| <i>Responses</i> | 64 | 146 | 158 | 368 |

| What is your age? | Tuality Hospital | Killingsworth | East 162nd | Total |
|-------------------|------------------|---------------|------------|-------|
| < 5 | 0% | 0% | 0% | 0% |
| 5 to 9 | 0% | 0% | 0% | 0% |
| 10 to 14 | 2% | 1% | 1% | 1% |
| 15 to 19 | 4% | 0% | 5% | 3% |
| 20 to 24 | 3% | 3% | 7% | 5% |
| 25 to 34 | 10% | 31% | 20% | 22% |
| 35 to 44 | 15% | 37% | 20% | 26% |
| 45 to 54 | 22% | 12% | 24% | 19% |
| 55 to 59 | 13% | 4% | 9% | 8% |
| 60 to 64 | 12% | 6% | 5% | 7% |
| 65 to 74 | 12% | 6% | 7% | 7% |
| 75 to 84 | 7% | 0% | 1% | 2% |
| > 85 | 0% | 0% | 1% | 0% |
| <i>Responses</i> | 68 | 152 | 163 | 383 |

| How many people lived in your household in 2011? | Tuality Hospital | Killingsworth | East 162nd | Total |
|--|------------------|---------------|------------|-------|
| Median | 2 | 2 | 3 | 2 |
| Average | 3.0 | 2.4 | 3.1 | 2.8 |
| Mode | 2 | 2 | 2 | 2 |
| Maximum | 9 | 7 | 11 | 11 |
| Minimum | 1 | 1 | 1 | 1 |
| <i>Responses</i> | 64 | 143 | 154 | 361 |

| What was your total household income in 2011 from all sources? | Tuality Hospital | Killingsworth | East 162nd | Total |
|--|------------------|---------------|------------|-------|
| Less than \$10,000 | 9% | 1% | 22% | 12% |
| \$10,000-\$14,999 | 6% | 2% | 10% | 6% |
| \$15,000-\$24,999 | 19% | 14% | 18% | 16% |
| \$25,000-\$34,999 | 11% | 14% | 23% | 17% |
| \$35,000-\$49,999 | 11% | 16% | 15% | 15% |
| \$50,000-\$74,999 | 21% | 22% | 6% | 15% |
| \$75,000-\$99,999 | 13% | 11% | 3% | 8% |
| \$100,000-\$149,999 | 4% | 17% | 3% | 9% |
| \$150,000-\$199,999 | 0% | 2% | 0% | 1% |
| More than \$200,000 | 6% | 1% | 0% | 1% |
| <i>Responses</i> | 53 | 146 | 154 | 353 |

| What is the highest degree or level of school you have completed? | Tuality Hospital | Killingsworth | East 162nd | Total |
|---|------------------|---------------|------------|-------|
| No schooling completed | 5% | 0% | 3% | 2% |
| Grade 12 or under, but no diploma | 5% | 1% | 15% | 8% |
| High school diploma | 13% | 4% | 18% | 12% |
| GED or alternative credential | 5% | 2% | 9% | 5% |
| Some college credit | 25% | 17% | 28% | 23% |
| Associate's degree | 9% | 7% | 15% | 11% |
| Bachelor's degree | 24% | 43% | 10% | 26% |
| Master's degree | 11% | 19% | 2% | 10% |
| Professional degree beyond a bachelor's degree | 0% | 6% | 0% | 2% |
| Doctoral degree | 3% | 1% | 0% | 1% |
| <i>Responses</i> | 63 | 153 | 163 | 379 |



METRO

Office of the Metro Auditor
600 NE Grand Avenue
Portland, Oregon 97232
503-797-1892
www.oregonmetro.gov



Tuality Station



Killingsworth Station



E. 162nd Station

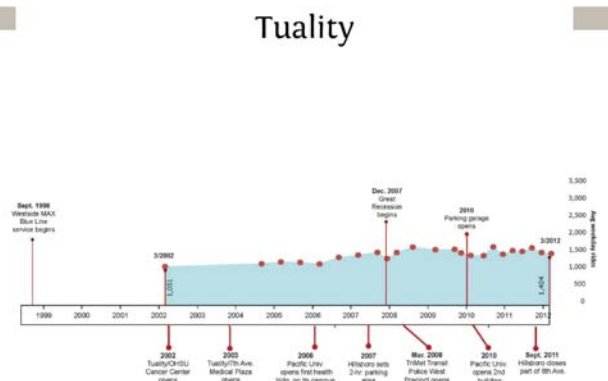


Triangulated Data:

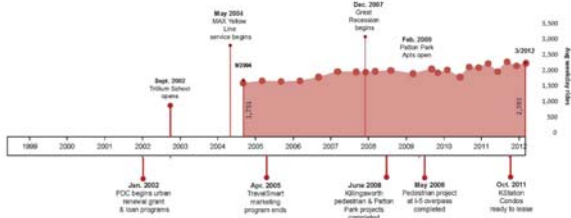
- Ridership growth
- CenSus
- ReSident Survey
- Government investment
- ObServations

Performance

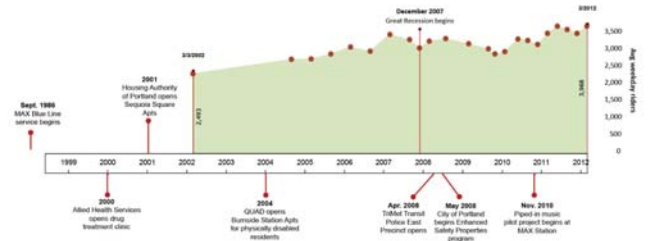
Growth Trend



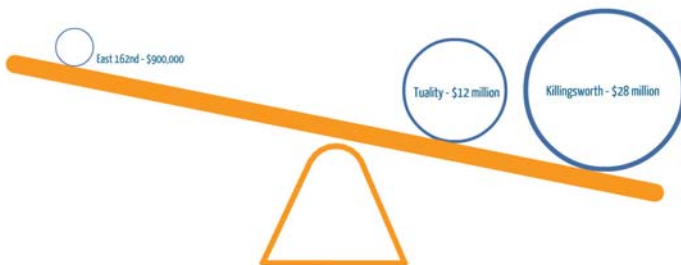
N. Killingsworth



East 162nd



Funding Imbalance



Finding

- No clear relationship.
- Ridership increasing at each station.
- Level of government investment was highest for N. Killingsworth and lowest for E. 162nd

Annual Growth

Tuality

Annual Growth Rate

2.9%

Added Daily Rides/Year

35

N. Killingsworth

Annual Growth Rate

4.3%

Added Daily Rides/Year

86

East 162nd

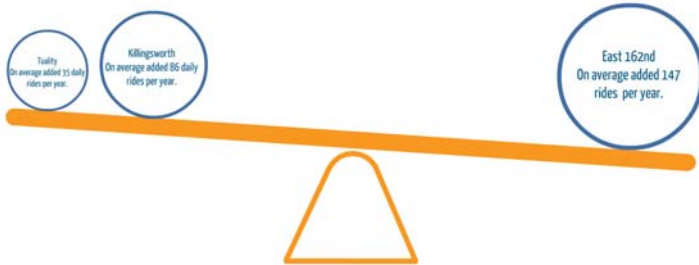
Annual Growth Rate

4.8%

Added Daily Rides/Year

147

Growth Imbalance



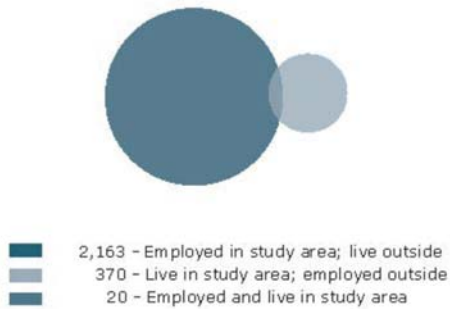
Finding

Rate of increase and rides added annually was considerably higher for E. 162nd.

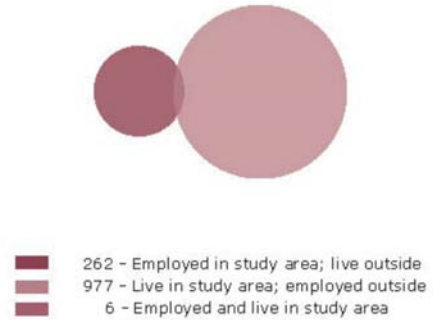
Drivers

Inflow/Outflow

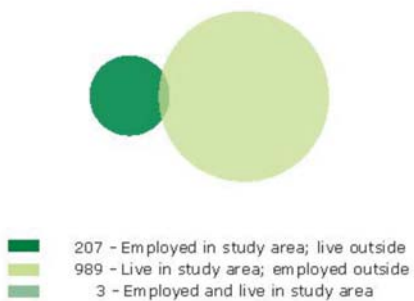
Tuality



N. Killingsworth



East 162nd



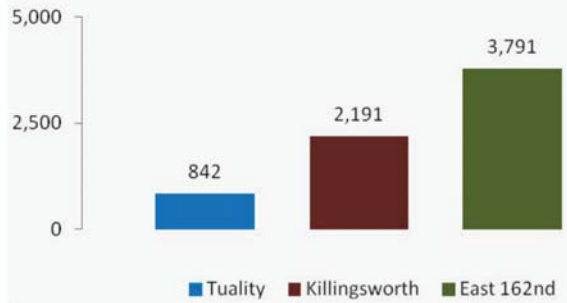
Finding

Tuality Station is an employee destination. Over 10 X the number of people coming to the station for employment than the other two study areas.

Demographics

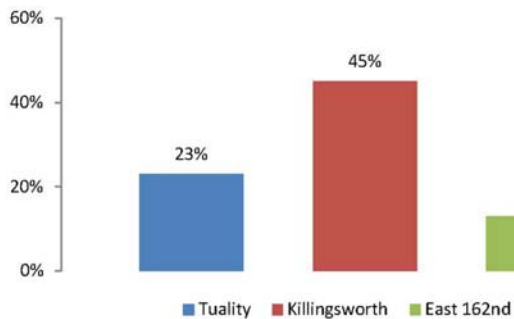
Number of Residents

In the Study Area

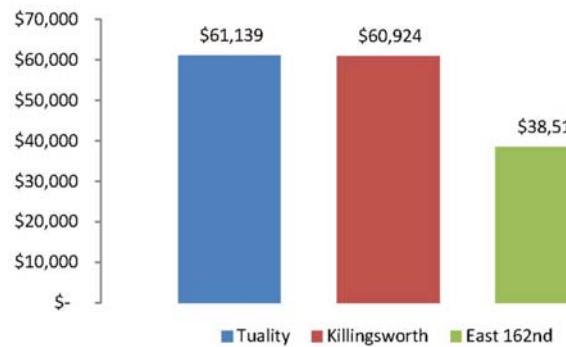


Educational Attainment

Bachelor's Degree or Higher



Average Household Income

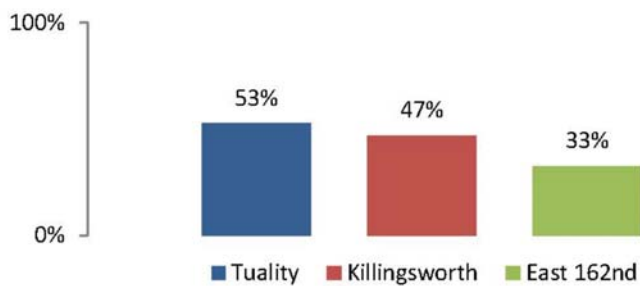


Finding

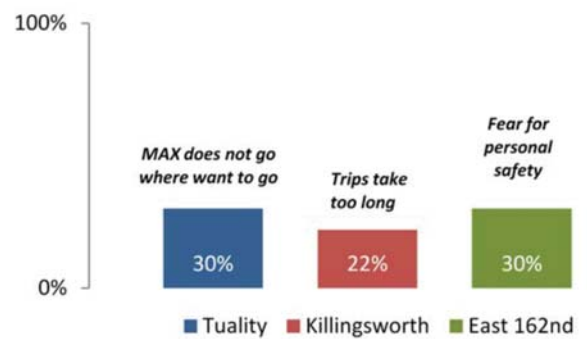
The East 162nd study area was the most populated and residents were more dependent upon transit.

Survey Results

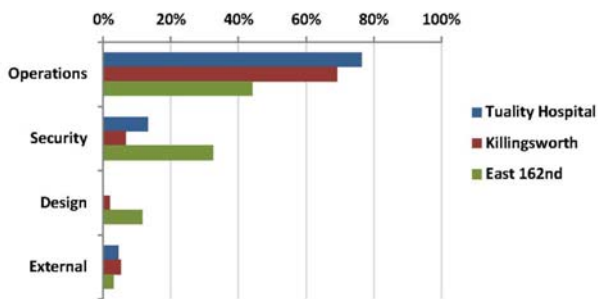
Percent of Riders More Likely to Ride After Improvements Were Made



Top reason Non-Riders Do Not Ride



What Would Make Residents Ride More?



Finding

While some were affected by improvements suggested by planning strategies, others were not.

What are the implications of our study?

Evaluation of outcomes can help refine and adjust planning efforts.

Ridership increased but effectiveness of strategies was unclear.

- Killingsworth received the highest level of government investment and had an overall increase in ridership.
- Tuality received the second highest level of investment and had an overall increase in riders; but
- East 162nd received the least government investment and had the largest increase in riders,

Other factors might need to be addressed

- Operations
 - Lower fares
 - Quicker trips
- Public safety
- Characteristics of the neighborhood
- Equity

Recommendations:

- Place-specific analysis
- Report on effectiveness
- Increase the use of outcome measures
- Respond to inequitable outcomes of funding decisions
- Report on actions that will improve the effectiveness .

Agenda Item No. 4.1

Consideration of the Minutes for June 20, 2013

Consent Agenda

Metro Council Meeting
Thursday, June 27, 2013
Metro, Council Chamber

Agenda Item No. 4.2

Resolution No. 13-4435, For the Purpose of Temporarily
Suspending the Alternative Program and Performance Standard
in Metro Code Chapter 5.10.240.

Consent Agenda

Metro Council Meeting
Thursday, June 27, 2013
Metro, Council Chamber

BEFORE THE METRO COUNCIL

FOR THE PURPOSE OF TEMPORARILY) RESOLUTION NO. 13-4435
SUSPENDING THE ALTERNATIVE PROGRAM)
AND PERFORMANCE STANDARD IN METRO) Introduced by Jennifer Erickson
CODE CHAPTER 5.10.240)

WHEREAS, the Regional Solid Waste Management Plan (RSWMP) provides the Metro region with solid waste policy and program direction through 2018; and

WHEREAS, ORS Chapter 459 requires Metro to prepare a Waste Reduction Program for the region and to submit the Program to the Oregon Department of Environmental Quality for approval; and

WHEREAS, Metro has included the Waste Reduction Program in the RSWMP; and

WHEREAS, Metro enforces the required components of the Waste Reduction Program through Metro Code Chapter 5.10; and

WHEREAS, Metro Code Chapter 5.10 includes a requirement for local governments to establish a Regional Service Standard ("RSS") and provides a process for local governments to seek an alternative program in lieu of the RSS; and

WHEREAS, Metro is evaluating the RSS and will implement changes that improve the effectiveness and efficiency of the current standard through changes to Metro Code Chapter 5.10; and

WHEREAS, suspending applications for new alternative programs will allow Metro to focus on improving the RSS; now therefore

BE IT RESOLVED that the Metro Council

1. Suspends applications for alternative programs under Metro Code Section 5.10.240 through June 30, 2014, and
2. Directs the Chief Operating Officer to inform all local governments in the Metro region of this suspension.

ADOPTED by the Metro Council this _____ day of June 2013.

Tom Hughes, Council President

Approved as to Form:

Alison Kean Campbell, Metro Attorney

STAFF REPORT

IN CONSIDERATION OF RESOLUTION NO. 13-4435, FOR THE PURPOSE OF TEMPORARILY SUSPENDING THE ALTERNATIVE PROGRAM AND PERFORMANCE STANDARD IN METRO CODE CHAPTER 5.10.240

Date: June 27, 2013

Prepared by: Jennifer Erickson, 503-797-1647

PURPOSE

The Metro Council's adoption of this Resolution would direct Metro's Chief Operating Officer to temporarily suspend the Alternative Program and Performance Standard process, as laid out in Metro Code Chapter 5.10.240, through June 30, 2014 to allow Metro time to evaluate and improve the efficiency and effectiveness of the program. This evaluation may result in the development of proposed revisions to the Metro Code.

BACKGROUND

The Regional Solid Waste Management Plan (RSWMP) provides long-term policy and program direction for regional materials management and solid waste system planning efforts. Although the RSWMP is implemented primarily through cooperative working relationships among Metro, the Oregon Department of Environmental Quality, local governments and the private sector, the plan contains required elements that are outlined in Metro Code Chapter 5.10. These required elements, the Regional Service Standard and the Business Recycling Requirement, are designed to support the implementation of RSWMP programs and help the region meet state material recovery goals.

The Regional Service Standard sets recycling service and education standards for local governments to meet for residential and business sector recycling programs. The prescribed residential service is weekly collection of all standard recyclable materials. To provide flexibility to local governments, the Regional Service Standard includes an alternative program provision that allows a jurisdiction to apply to Metro for approval to adopt a program that differs from weekly collection, but achieves the same level of performance. A local government seeking alternative program approval must demonstrate how the program will achieve this level. The program has proven challenging to implement due to the complexities and costs of evaluating alternative program requests for their projected effectiveness.

In response to these challenges, Sustainability Center staff has initiated a project to review the Regional Service Standard, with emphasis on the alternative program. The primary objectives of this review will be to more fully evaluate whether the program is meeting its intended purposes and identify options for addressing the challenges of cost and complexity. The temporary suspension of new program applications requested through this resolution will allow staff time to complete the work without the risk of needing to simultaneously respond to new alternative program requests.

Metro has approved five alternative curbside programs since 2008:

- Durham: every-other-week collection of commingled recyclables and monthly glass collection.
- Hillsboro: every-other-week collection of commingled recyclables and glass.
- Sherwood: every-other-week collection of commingled recyclables and monthly glass collection.
- Tigard: monthly glass collection.
- Unincorporated Washington County: every-other-week collection of commingled recyclables and glass.

Each of these communities was interested in implementing an alternative program as a means of helping to control costs associated with the collection and disposal/recycling of residential garbage, recyclables and yard debris. Residential customers pay a combined monthly rate for this package of collection services.

ANALYSIS/INFORMATION

1. Known Opposition

None.

2. Legal Antecedents

Ordinance No. 07-1162A, (For the Purpose of Adopting the Regional Solid Waste Management Plan, 2008-2018 Update), adopted July 2008; Ordinance No. 08-1183A, (For the Purpose of Amending the Metro Code Title V, Solid Waste, to Add, Chapter 5.10, Regional Solid Waste Management Plan, to Implement the Requirements of the 2000-2018 Regional Solid Waste Management Plan), adopted July 2008; Metro Charter; Metro Code Title V Solid Waste; OAR 340-91-070(3)(f) and ORS Chapters 268, 459 and 459A.

3. Anticipated Effects

Approval of this resolution will temporarily suspend the Alternative Program and Performance Standard process as described in Metro Code Chapter 5.10.240 until June 30, 2014, which will effectively prohibit a local government from submitting a new alternative program application during this time.

4. Budget/Fiscal Impacts

None.

RECOMMENDED ACTION

The Chief Operating Officer recommends approval of Resolution No. 13-4435.

Resolution No. 13-4440, For the Purpose of Authorizing the Chief Operating Office to Issue a Non-System License to Recology Portland, Inc. for Delivery of Residential Yard Debris Mixed with Food Waste from the Suttle Road Recovery Facility to Recology Oregon Compost, Inc. - Nature's Needs Compost Facility Located in North Plains, Oregon.

Metro Council Meeting
Thursday, June 27, 2013
Metro, Council Chamber

BEFORE THE METRO COUNCIL

| | | |
|---|---|------------------------------------|
| AUTHORIZING THE CHIEF OPERATING OFFICER TO ISSUE A |) | RESOLUTION NO. 13-4440 |
| NON-SYSTEM LICENSE TO RECOLOGY PORTLAND, INC. FOR |) | |
| DELIVERY OF RESIDENTIAL YARD DEBRIS MIXED WITH FOOD |) | Introduced by Martha J. Bennett, |
| WASTE FROM THE SUTTLE ROAD RECOVERY FACILITY TO |) | Chief Operating Officer, with the |
| RECOLOGY OREGON COMPOST, INC. - NATURE'S NEEDS |) | concurrence of Tom Hughes, Council |
| COMPOST FACILITY LOCATED IN NORTH PLAINS, OREGON |) | President |

WHEREAS, the Metro Code requires a non-system license of any person that delivers solid waste generated from within the Metro Region to a non-system facility; and

WHEREAS, Recology Portland, Inc. has filed a complete application seeking a non-system license to deliver residential yard debris mixed with food waste from the Suttle Road Recovery Facility (SRRF) to the Recology Oregon Compost, Inc. Nature's Needs Composting Facility (Nature's Needs) located in North Plains, Oregon, under the provisions of Metro Code Chapter 5.05, "Solid Waste Flow Control;" and

WHEREAS, on October 21, 2011 the Chief Operating Officer issued amended Solid Waste Facility License No. L-102-11A to SRRF authorizing it to accept and reload residential yard debris mixed with food waste; and

WHEREAS, such residential yard debris mixed with food waste will be collected from the city of Portland residential curbside food waste collection program and delivered to SRRF for consolidation, reload and transport to the Nature's Needs composting facility; and

WHEREAS, the Nature's Needs composting facility is authorized by the Oregon Department of Environmental Quality and Washington County to accept yard debris and residential food waste; and

WHEREAS, Metro Code Chapter 5.05 provides that applications for non-system licenses for putrescible waste shall be reviewed by the Chief Operating Officer and are subject to approval or denial by the Metro Council; and

WHEREAS, the Chief Operating Officer has analyzed the application and considered the relevant factors under the Metro Code; and

WHEREAS, the Chief Operating Officer recommends that the non-system license be issued together with specific conditions as provided in Exhibit A to this Resolution; now therefore,

THE METRO COUNCIL RESOLVES AS FOLLOWS:

1. The non-system license application of Recology Portland, Inc. is approved subject to the terms, conditions, and limitations contained in Exhibit A to this Resolution.
2. The Chief Operating Officer is authorized to issue to Recology Portland, Inc. a non-system license substantially similar to the one attached as Exhibit A.

ADOPTED by the Metro Council this ____ day of _____, 2013.

Tom Hughes, Council President

Approved as to Form:

Alison Kean Campbell, Metro Attorney

EXHIBIT A TO RESOLUTION NO. 13-4440

600 NORTHEAST GRAND AVENUE | PORTLAND, OREGON 97232 2736
TEL 503 797 1835 | FAX 503 813 7544



METRO

**METRO SOLID WASTE FACILITY
NON-SYSTEM LICENSE**

No. N-102(2)-13

LICENSEE:

Recology Portland, Inc.
4044 N. Suttle Road
Portland, OR 97217

CONTACT PERSON:

Larry Wilkins
Phone: (503) 285-8777
E-Mail: lwilkins@recology.com

MAILING ADDRESS:

4044 N. Suttle Road
Portland, OR 97217

ISSUED BY METRO:

Scott Robinson, Deputy Chief Operating Officer

Date

| | |
|----------|---|
| 1 | NATURE OF WASTE COVERED BY LICENSE |
| | Source-separated residential yard debris mixed with food waste from municipal curbside collection programs generated within the Metro boundary and received at Suttle Road Recovery Facility in accordance with Metro Solid Waste Facility License No. L-102-11A. |

| | |
|----------|---|
| 2 | CALENDAR YEAR TONNAGE LIMITATION |
| | Licensee is authorized to deliver to the non-system facility listed in Section 3 of this license up to 15,000 tons per calendar year of the waste described in Section 1 of this license. |

| | |
|----------|--|
| 3 | NON-SYSTEM FACILITY |
| | <p>The Licensee hereunder is authorized to deliver the waste described above in Section 1 to the following non-system facility for the purpose of processing and composting:</p> <p style="padding-left: 40px;">Recology Oregon Compost, Inc.-Nature's Needs Compost Facility 9570 NW 307th Avenue North Plains, OR 97113</p> <p>This license is issued on the condition that the non-system facility listed in this section is authorized to accept the type of waste described in Section 1. If Metro receives notice from the Oregon Department of Environmental Quality or Washington County that this non-system facility is not authorized to accept such waste, Metro may immediately modify or terminate this license pursuant to Section 10 of this license.</p> |

| | |
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| 4 | TERM OF LICENSE |
| | The term of this license will commence on July 15, 2013 and expire at midnight on December 31, 2015 unless terminated sooner under Section 10 of this license. |

| | |
|----------|---|
| 5 | COVERED LOADS |
| | Licensee shall suitably contain and cover, on all sides, all loads of source-separated residential yard debris mixed with food waste that are delivered under |

| | |
|--|---|
| | authority of this license to prevent spillage of waste while in transit to the non-system facility listed in Section 3. |
|--|---|

| | |
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| 6 | MATERIAL MANAGEMENT |
| | <p>The Licensee is authorized to deliver the waste described in Section 1 of this license to the non-system facility listed in Section 3 under the following conditions:</p> <p>(a) The non-system facility shall accept all solid waste that is delivered under authority of this license for the sole purpose of processing and composting on-site. The Licensee shall not dispose of any source-separated recyclable material, except as provided in Section 7; and</p> <p>(b) The non-system facility shall receive, manage, process, and compost all solid waste that is delivered under authority of this license in accordance with all applicable local, state and federal laws, rules, regulations, ordinances, orders, and permits.</p> |

| | |
|----------|---|
| 7 | REGIONAL SYSTEM FEE AND EXCISE TAX |
| | <p>The Licensee shall be subject to the following conditions:</p> <p>(a) Source-separated residential yard debris mixed with food waste that is delivered under authority of this license and is accepted and composted, in accordance with all applicable regulations, at the non-system facility listed in Section 3 is exempt from Regional System Fees and Excise Tax.</p> <p>(b) If the Licensee delivers waste under this license to the non-system facility listed in Section 3 but the material does not meet the facility's acceptance criteria (for example, the material is too contaminated for processing or composting) or the non-system facility fails to process and compost the material as required as a condition of this license, the Licensee shall pay to Metro an amount equal to the Regional System Fee, as provided in Metro Code Title V, for each ton or portion thereof of waste delivered to the non-system facility that is ultimately delivered to a disposal site.</p> <p>(c) If the Licensee delivers waste under this license to the non-system facility listed in Section 3 but the material does not meet the facility's acceptance criteria (for example, the material is too contaminated for processing or composting) or the non-system facility fails to process and compost the material as required as a condition of this license, the Licensee shall pay to Metro an amount equal to the Excise Tax, as provided in Metro Code Title VII, for each ton or portion thereof of waste delivered to the non-system facilities that is ultimately delivered to a disposal site.</p> |

| | |
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| 8 | REPORTING OF ACCIDENTS AND CITATIONS |
| | Licensee shall report to Metro any significant incidents (such as fires), accidents, and citations involving vehicles transporting the solid waste authorized by this license. |

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| 9 | RECORD KEEPING AND REPORTING |
| | <p>(a) The Licensee shall keep and maintain accurate records of the amount of all solid wastes that the Licensee delivers to the non-system facility listed in Section 3 of this license. The Licensee shall keep and maintain complete and accurate records of the following for all transactions with the authorized non-system facilities:</p> <ul style="list-style-type: none">i. Ticket or weight slip number from the non-system facility;ii. Material category designating the type of material transferred to the non-system facility;iii. Date the load was transferred to the non-system facility;iv. Time the load was transferred to the non-system facility;v. Net weight of the load; andvi. Fee charged by the non-system facility. <p>(b) No later than the fifteenth (15th) day of each month, beginning with the first month following the commencement date of this license, Licensee shall transmit the records required under Section 9(a) above, that covers the preceding month, to Metro's Finance and Regulatory Services Department in an electronic format prescribed by Metro.</p> <p>(c) Licensee shall make all records from which Section 9(a) above are derived available to Metro (or Metro's designated agent) for its inspection or copying, as long as Metro provides no less than three (3) business days written notice of an intent to inspect or copy documents. Licensee shall, in addition, sign or otherwise provide to Metro any consent or waiver necessary for Metro to obtain information or data from a third party, including the non-system facilities listed above in Section 3.</p> |

| | |
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| 10 | ADDITIONAL LICENSE CONDITIONS |
| | <p>This non-system license shall be subject to the following conditions:</p> <p>(a) The permissive transfer of solid waste to the non-system facility, listed in</p> |

| | |
|--|---|
| | <p>Section 3, authorized by this license shall be subordinate to any subsequent decision by Metro to direct the solid waste described in this license to any other facility.</p> <p>(b) This license shall be subject to amendment, modification, or termination by Metro's Chief Operating Officer (the "COO") in the event that the COO determines that:</p> <ul style="list-style-type: none"> i. There has been sufficient change in any circumstances under which Metro issued this license; ii. The provisions of this license are actually or potentially in conflict with any provision in Metro's disposal contract with Waste Management Disposal Services of Oregon, Inc., dba Oregon Waste Systems, Inc; iii. Metro's solid waste system or the public will benefit from, and will be better served by, an order directing that the waste described in Section 1 of this license be transferred to, and disposed of at, a facility other than the facility listed in Section 3; iv. The non-system facility listed in Section 3 fails to manage the waste subject to this license in accordance with the material management requirements described in Section 6; or v. The non-system facility listed in Section 3 generates malodors that are detectable off-site. <p>(c) This license shall, in addition to subsections (b)(i) through (b)(v), above, be subject to amendment, modification, termination, or suspension pursuant to the Metro Code.</p> <p>(d) Licensee shall not transfer or assign any right or interest in this license without prior written notification to, and approval of, Metro.</p> <p>(e) This license shall be subject to modification or termination by the COO upon the execution of a designated facility agreement with a facility listed in Section 3 that authorizes the facility to accept the waste described in Section 1 of this license.</p> <p>(f) This license authorizes delivery of solid waste only to the facility listed in Section 3. Transfer of waste generated from within the Metro boundary to any non-system facility other than that specified in this license is prohibited unless authorized in writing by Metro.</p> |
|--|---|

| | |
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| 11 | COMPLIANCE WITH LAW |
| | Licensee shall fully comply with all applicable local, regional, state and federal laws, rules, regulations, ordinances, orders, and permits pertaining in any manner to this license, including all applicable Metro Code provisions and |

| | |
|--|--|
| | administrative procedures adopted pursuant to Metro Code Chapter 5.05 whether or not those provisions have been specifically mentioned or cited herein. All conditions imposed on the collection and hauling of the licensee's solid waste by federal, state, regional or local governments or agencies having jurisdiction over solid waste generated by the licensee shall be deemed part of this license as if specifically set forth herein. |
|--|--|

| | |
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| 12 | INDEMNIFICATION |
| | Licensee shall defend, indemnify and hold harmless Metro, its elected officials, officers, employees, agents and representatives from any and all claims, demands, damages, causes of action, or losses and expenses, or including all attorneys' fees, whether incurred before any litigation is commenced, during any litigation or on appeal, arising out of or related in any way to the issuance or administration of this non-system license or the transport and disposal of the solid waste covered by this license. |

STAFF REPORT

IN CONSIDERATION OF RESOLUTION NO. 13-4440 FOR THE PURPOSE OF AUTHORIZING THE CHIEF OPERATING OFFICER TO ISSUE A NON-SYSTEM LICENSE TO RECOLOGY PORTLAND, INC. FOR DELIVERY OF RESIDENTIAL YARD DEBRIS MIXED WITH FOOD WASTE FROM THE SUTTLE ROAD RECOVERY FACILITY TO RECOLOGY OREGON COMPOST, INC.-NATURE'S NEEDS COMPOSTING FACILITY LOCATED IN NORTH PLAINS, OREGON

June 10, 2013

Prepared by: Bill Metzler
(503) 797-1666

Approval of Resolution No. 13-4440 will authorize the Chief Operating Officer (COO) to issue a non-system license (NSL) to Recology Portland, Inc. (Recology), to annually deliver a maximum of 15,000 tons of source-separated residential yard debris mixed with food waste (residential food waste) from Suttle Road Recovery Facility (SRRF) located at 4044 North Suttle Road in Portland (Metro Council District 5) to Recology Oregon Compost, Inc.-Nature's Needs Composting Facility (Nature's Needs) located at 9570 NW 307th Avenue in North Plains, Oregon (outside Metro's jurisdictional boundary).

The residential food waste proposed to be delivered under authority of this NSL is currently received at Metro Central Transfer Station and delivered to Nature's Needs under a separate contract with Recology. Granting this NSL will not increase feedstock into Nature's Needs, but will provide an alternative facility for Portland area haulers to deliver feedstock by using SRRF or Metro Central.

BACKGROUND

1. Overview

The applicant seeks authorization to transport residential food waste generated within the Metro region to a non-system facility, Nature's Needs, located outside of the region. Metro Code Section 5.05.025 prohibits any person from transporting solid waste to non-system facilities without an appropriate license from Metro. The proposed NSL is subject to Metro Council approval because it involves putrescible waste (food waste).

2. The Applicant

Recology, Inc., headquartered at 50 California Street, 24th Floor, in San Francisco California, is the parent company that owns Recology Portland, Inc. Recology, Inc. is also the contract operator for the Metro Central Transfer Station.

Recology owns and operates three material recovery facilities in the region that are licensed by Metro. They are: 1) SRRF (a material recovery and residential food waste reload facility), 2) Foster Road Recovery Facility (a material recovery facility and residential food waste reload facility), and 3) Oregon City Recovery Facility (not currently operational). In addition, Recology, Inc. owns and operates three DEQ-approved composting facilities in Oregon: 1) NW Greenlands - Aumsville, 2) NW Greenlands - McMinnville, and 3) Nature's Needs composting facility located in North Plains.

On October 21, 2011, SRRF was issued an amended Solid Waste Facility License (L-102-11A) to accept, consolidate and reload residential yard debris mixed with food waste, primarily from the city of Portland's residential curbside collection program.

On May 17, 2013, SRRF submitted a complete application to Metro requesting authorization to transport up to 15,000 tons of residential food waste to the Nature's Needs facility for composting. Nature's Needs also receives Metro-area food waste from Metro Central Transfer Station under a separate contract with Recology, Inc.

ANALYSIS/INFORMATION

1. Known Opposition

There is no known opposition to the issuance of this specific NSL. The residential food waste subject to the proposed NSL will be delivered to Nature's Needs for composting. There is no known opposition within the Metro region for delivery of Metro-area waste to authorized composting sites located outside of the region, including Nature's Needs. However, within Washington County and the city of North Plains, there is known local public opposition to the composting of organic material, especially food waste at Nature's Needs. This is due, in large part, to malodors previously generated at the Nature's Needs facility that have been linked to large volumes of commercial food waste delivered to the facility. Washington County has prohibited the facility from accepting commercial food waste as of April 1, 2013. No commercial food waste will be delivered to Nature's Needs under authority of this proposed NSL.

As part of its authorization process for NSLs, Metro asks local host governments whether the destination facility is in compliance with local laws and whether it has any issues, concerns or objections to Metro-area waste flowing to disposal sites within their jurisdiction. Washington County is responsible for local land use decisions and local facility regulatory matters regarding Nature's Needs. The County has informed Metro that the facility currently is in compliance with local requirements and does not object to the delivery of residential food waste generated from within the Metro region. Nature's Needs is permitted to accept residential food waste and the appropriate state and local jurisdictions do not object to the facility receiving Metro-area residential food waste for composting.

2. Legal Antecedents

Metro Code Section 5.05.035 provides that a waste hauler may transport solid waste generated within Metro to any non-system facility only by obtaining an NSL. Metro Code further requires applications for NSLs for putrescible waste (such as residential food waste) to be reviewed by the COO and are subject to approval or denial by the Metro Council. Under Metro Code Subsection 5.05.035(c), the Council shall consider the following factors when determining whether to approve an NSL application:

- (1) *The degree to which prior users of the non-system facility and waste types accepted at the non-system facility are known and the degree to which such wastes pose a future risk of environmental contamination;*

The non-system facility identified in this proposed license is an established yard debris and food waste composting facility rather than a landfill and thus does not pose the same potential environmental risk

from wastes delivered from prior users. Since the facility has accepted only wood waste, yard debris, and food waste for composting, staff is not aware of any other wastes accepted at Nature's Needs that could pose a risk of environmental contamination. The environmental risk from the use of this non-system facility is presumed to be minimal because the facility will be fully regulated and monitored by the appropriate local and state authorities.

- (2) *The record of regulatory compliance of the non-system facility's owner and operator with federal, state and local requirements including, but not limited to, public health, safety and environmental rules and regulations;*

Based on recent communication with the DEQ and Washington County, the Nature's Needs composting facility operates in compliance with all federal, state, and local requirements, rules and regulations and is in compliance with its DEQ Composting Facility Permit No. 1445, issued on April 8, 2011 and the Washington County Franchise issued on March 25, 2013. The facility received one Warning Letter with Opportunity to Correct from the DEQ and one Notice of Non-Compliance from Washington County (both in February 2012). All areas of concern noted within the Warning Letter and Notice of Non-Compliance have been addressed to the satisfaction of each agency. According to the DEQ, a Pre-Enforcement Notice issued to Nature's Needs on November 29, 2012 is currently being resolved related to a plan review process for the leachate collection and treatment system at Nature's Needs. There are currently no pending violations related to public health, safety or environmental regulations.

- (3) *The adequacy of operational practices and management controls at the non-system facility;*

Nature's Needs will accept and compost the residential food waste under the authority of a Washington County Land Use Compatibility Statement dated May 7, 2010, a Washington County Modified Franchise Agreement dated March 25, 2013, and under authority of a Solid Waste Disposal Site Permit: Composting Facility (No. 1445) issued by the DEQ on April 8, 2011. The DEQ permit expires on March 1, 2020. The Washington County Franchise expires on July 20, 2015.

Nature's Needs is required by Washington County and DEQ to implement measures to control and minimize odors through site design and operations. The odor control measures include processing incoming mixed food waste feedstock in a timely manner, blending of feedstocks, good housekeeping, and monitoring moisture and temperatures of composting feedstock. More importantly, the use of a forced aeration system and a biofilter system will help control and minimize odors. The system will pull air through the composting piles and direct the air to a biofilter consisting of organic material such as wood chips or compost overs. Biofilters are commonly used at composting facilities due to their success in effectively treating odors associated with composting.

It is important to note that Section 3 of the proposed NSL provides that if Metro receives notice from the DEQ or Washington County that Nature's Needs is no longer authorized to accept residential food waste, Metro can immediately terminate or modify the NSL.

- (4) *The expected impact on the region's recycling and waste reduction efforts;*

Approval of the proposed NSL is likely to have a positive to neutral impact on the region's recycling and waste reduction efforts. According to the applicant, Nature's Needs currently has a surplus of capacity due to the recent exclusion of commercial food waste by Washington County. Utilizing Nature's Needs as a receiving facility will reduce the distance that transfer trailers need to travel in order to deliver feedstock to a permitted facility.

Currently, residential food wastes are received at Metro Central Transfer Station and delivered to Nature's Needs under a separate contract with Recology. Granting this NSL will not increase feedstock into Nature's Needs, but will provide an alternative facility for Portland area haulers to deliver feedstock by using SRRF or the Metro Central Transfer Station. SRRF currently receives residential food waste and is licensed to transfer this material to NW Greenlands Aumsville Composting Facility located in Aumsville, Oregon and The Dirt Huggers composting facility located in The Dalles, Oregon. Granting this NSL will provide SRRF with an additional alternative back-up composting capacity and potentially lessen the distances transfer trailers have to travel to deliver the feedstock to the compost facilities located in Aumsville and The Dalles.

(5) The consistency of the designation with Metro's existing contractual arrangements;

Metro is contractually obligated to deliver a minimum of 90 percent of the region's putrescible waste that is delivered to general purpose landfills during the calendar year, to landfills owned by Metro's disposal contractor, Waste Management of Oregon. The waste subject to the proposed license will be delivered to a composting facility rather than disposed at a general-purpose landfill. In fact, Metro currently relies on its contractor at the Metro Central Transfer Station to deliver most of its residential food waste feedstock to Nature's Needs for composting. Thus, approval of the requested license does not conflict with Metro's disposal contract or any other of its existing contractual arrangements.

(6) The record of the applicant regarding compliance with Metro ordinances and agreements or assistance to Metro in Metro ordinance enforcement and with federal, state and local requirements including, but not limited to, public health, safety and environmental rules and regulations; and

All of the Metro-regulated Recology facilities located within the Metro boundary are currently in compliance with Metro's Code and license requirements. As a solid waste hauling company, Recology Portland, Inc. has a good record of compliance with local and state agencies responsible for public health, safety, and environmental rules and regulations.

(7) Such other factors as the Chief Operating Officer deems appropriate for purposes of making such determination.

Reloading residential food waste at SRRF will provide additional reload capacity for residential food waste and yard debris which benefits the region's organics recovery program.

3. Anticipated Effects

The effect of Resolution No. 13-4440 will be to issue an NSL to Recology for delivery of up to 15,000 tons per calendar year of residential food waste from SRRF to Nature's Needs.

4. Budget Impacts

The residential food waste proposed to be transported under authority of this NSL is exempt from paying the Metro Regional System Fee and Excise Tax (RSF and ET). The overall impact of the city of Portland's food waste composting program has already been factored into Metro's budget.

The residential food waste that will be delivered to SRRF in FY 2013-14 will mostly be tonnage diverted away from the Metro Central Transfer Station. This tonnage shift will cause a small increase in the per-ton cost of disposal for Metro's customers mainly because Metro's fixed operating costs will be spread over fewer tons. The impact of the tonnage shift away from Metro's transfer station to SRRF would decrease the Parks and Environmental Services budget in the future because Metro would no longer incur the cost of transferring, transporting, and composting the residential compostable materials diverted to SRRF. The impact of the diverted tons will be fully factored into the budget and rates for FY 2014-15.

RECOMMENDED ACTION

The COO recommends approval of Resolution No. 13-4440 finding that the license application satisfies the requirements of Metro Code Section 5.05.035, and issuance of an NSL substantially similar to the proposed NSL attached to the resolution as Exhibit A.

BM:bjl
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