

MEMORANDUM

PLANNING DIVISION COMMUNITY & ECONOMIC DEVELOPMENT

To: Salt Lake City Planning Commission

From: Tracy Tran, Principal Planner

Date: August 26, 2015

Re: Northwest Quadrant Master Plan

The purpose of this memo is to provide the Planning Commission with a copy of the draft version of the Northwest Quadrant Master Plan for review. The attached draft is meant to garner feedback and direction from the public and the Planning Commission.

The Northwest Quadrant Master Plan will guide the future development in the Northwest Quadrant area of the City. This area of the City is a major economic engine for the City and the region and has the potential to grow. Additionally, the area has immediate access to major transportation networks: Airport, Heavy Freight Rail, and the Interstate.

The Northwest Quadrant is located adjacent to the shorelands of the Great Salt Lake and contains significant wildlife habitat. Additionally, these environmentally-sensitive lands are home to an international migratory bird flyway that provides important stopping and nesting areas. The Northwest Quadrant Master Plan acknowledges the significance of the biodiversity and ecosystem functions and the plan seeks to preserve theses lands.

Additionally, the physical conditions of the lands in this area, particularly north of I-80 presents challenges. The combination of low elevations, high liquefaction, and shallow water table makes development difficult and more expensive.

The draft plan is based on the 2009 Draft Northwest Quadrant Master Plan, but excludes the residential component.

Key Issues

As a part of this master plan process, staff has met with various City departments/divisions as well as property owners north of I-80. Below are some of the key issues and comments heard:

- Allow for existing agricultural uses to continue
- The area north of I-80 should be re-zoned slowly and incrementally
- No trails or other public access should be allowed in the Natural Areas of the plan

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- Find a balance between allowing for elevation fill for development to occur and limiting development in historic flood areas
- Review the existing lowland conservancy district
- As a critical mass of jobs is developed, mass transit needs to be extended to this area
- Landfill remediation is necessary for the 7200 West interchange to connect north of I-80
- If landfill is capped, land could be used as a solar farm
- Building heights near the natural areas should be lower than areas further away from natural areas
- Expansion of the short line freight is important for future economic growth in the area
- Location of future roads to be constructed as development occurs
- Two key streets to be extended in order for the area North of I-80 to be developed: 7200 West and John Cannon Way (860 North)

The above issues have influenced the current draft of the plan. Some of the issues, such as the guidance related to building height, will be incorporated into a final draft that will be drafted after the August 26th public hearing and stakeholders have adequate time to provide comments.

Plan Outline

The draft plan acknowledges the assets and challenges of the area and seeks to provide a balance of development and preservation of these lands within the Northwest Quadrant. The draft plan begins with the community vision for the Northwest Quadrant. The vision of the plan promotes:

- Quality jobs
- Natural resource protection
- Preservation and restoration of wildlife habitat

The plan then provides background information that describes the existing conditions of the area. This section describes the physical features, natural hazards, roadways, uses, and demographics of the area.

The Land Use Plan follows and discusses the future land uses of the Northwest Quadrant. To balance out the goals to protect environmentally-sensitive lands and wildlife and the goal to spur economic development, the land use plan discusses policies that relate to nondevelopable areas and developable areas, which are referred as the Natural Areas and Developable Areas sections. In addition to the Natural and Developable areas, the land use plan discusses Greenways and Open Spaces, Transportation, and Public Services.

The Plan ends with development guidelines for new development north of I-80 that address landscaping, storm water, air quality, energy-efficiency, recycling, and bird-safe building design.

Features of the Plan

- Focus on this area being one of the City's major employment center. It is located close to transportation networks: the Airport, Heavy Freight Rail and Interstate. The City should recognize this area as an economic development asset of the City while ensuring protection of the environmentally-sensitive areas.
- Residential in this area is not appropriate for various reasons: natural and environmental hazards, environmental sensitive lands and impacts to wildlife, land use conflicts between residential uses and existing and future industrial areas.
- Opportunity for sustainable development: serving the area by mass transit, clustering of buildings to allow development where appropriate and protecting environmentally-sensitive areas and wildlife habitats, orienting buildings to take advantage of solar energy opportunities, etc.
- Opportunity for passive recreation use (trails, wildlife viewing, etc) next to protected natural areas and within Greenways and Open Spaces.
- Introduction of new Eco-Industrial land use type that balances economic development and environmental sustainability.
- Grow incrementally, with development occurring south of I-80 and along I-80 from East to West, then moving North of I-80.

Public Outreach

The Salt Lake City Planning Division is working with consultant, the Langdon Group, with the public outreach and communications. The public outreach process involved individual meetings with property owners and business owners within the Northwest Quadrant. The Planning Division also held a booth at the "Groove in the Grove" community event located in Poplar Grove on August 4, 2015. Additionally, an Open House was held on August 13, 2015. An Open City Hall topic is currently up on our website to allow for additional public comments.

Public Input to Date:

- The description of Eco-Industrial district states that buildings can be up to 6 stories in height, while the policy says 4-5 stories.
- Make clear in the plan that development is not allowed in the Natural Areas
- Buildings near the Natural Areas should be lower in height than those further away.

Next Steps

Staff requests that the Planning Commission review the attached draft of the Northwest Quadrant Master Plan and provide comments and additional plan recommendations. In September, Staff will provide a summary of stakeholder input and return for further discussion and to finalize the draft for an eventual recommendation to the City Council.

• Page 3

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August 11, 2015 DRAFT



Contents



COMMUNITY VISION

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01 Community Vision

The Vision

The Northwest Quadrant will be a new, sustainable area of Salt Lake City that:

- Respects the unique nature of the Great Salt Lake and surrounding environment for current generations and preserves sensitive natural environments for future generations.
- Is an ecologically-oriented industrial park that helps drive the City's economic and natural resource protection goals;
- Is an economic engine for the City, region and State.

Development in the Northwest Quadrant should accomplish the following:

- Environmental sensitivity providing places for people to work and recreate while protecting natural resources and wildlife habitat;
- A high quality, well designed built environment;
- Well-connected with good transportation linking people to jobs and other parts of the City and region, and linking businesses to goods and services by vehicle, rail, transit, air, bicycle and foot.
- Economically thriving-with a flourishing and diverse local, regional and global economy.
- Well served-with public and private services that are appropriate to people's needs and accessible to all.

The Land Use Plan

The Future land use framework illustrates a conceptual idea of the Plan's Vision. It is based on three frameworks: Environmental, Economic, and Transportation.

Sustainable Development

The Northwest Quadrant has tremendous potential to lead the City and the region in sustainable development, which includes the implementation of energy efficiency measures to reduce nonrenewable energy reliance; enhance environmental quality; conserve natural resources and ensure sustained economic vitality.

Achieving this requires that decisions and choices made today about development in the Northwest Quadrant should not limit the choices and opportunities of future generations. To that end, the Northwest Quadrant needs to safeguard and, in some areas, enhance resources, prevent harm to the natural environment and human health, and promote economic sustainability to benefit current and future residents of the City and region.

FOUNDATION

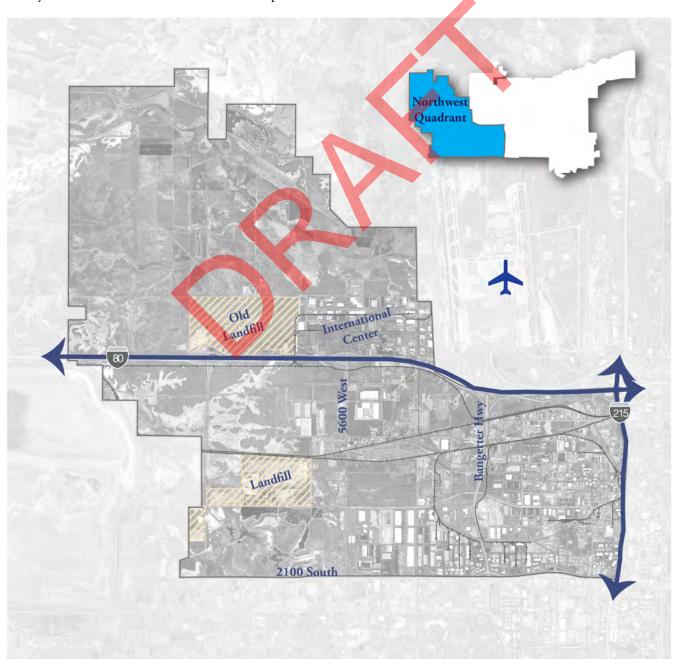
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PLNPCM2009-00168 6 | Northwest Quadrant Master Plan Date Published: August 20, 2015

02 Foundation

Background

The Northwest Quadrant, Salt Lake City's Western edge, includes approximately 28,000 acres of land, which accounts for about 40% of the total area of Salt Lake City. More than 9,000 acres of land north of Interstate 80 (I-80) is undeveloped. This represents one of the largest undeveloped areas along the Wasatch Front. This area, which is located west of Interstate 215 (I-215), with immediate access to I-80 and only minutes from Downtown, contains prime transportation access to highways, planes, and trains. It is adjacent to the Salt Lake International Airport and the location of most of the City's industrial and manufacturing sectors. The area also includes important environmentally sensitive lands (including the Great Salt Lake shore lands, bird nesting areas, and wildlife habitat), ongoing mining and landfill operations, and lands needing reclamation.



Goals of this Plan

The Northwest Quadrant Master Plan represents a unique opportunity to make informed decisions on an area-wide scale in an effort to create one of the most economically diverse and sustainable areas in the City and preserve the natural environment along the Great Salt Lake.

This plan helps the City achieve citywide goals outlined in Plan Salt Lake and regional goals identified in Envision Utah's Wasatch Choices 2040. These goals include protecting the environment and maintaining economic vitality.

Achieving this vision for the Northwest Quadrant requires clear direction and attainable goals that address the central issues facing the Northwest Quadrant and the City as a whole. To do this, the plan must:

- Preserve natural open spaces and sensitive areas to sustain biodiversity and ecosystem functions.
- Balance protection and management of natural lands with access to recreational opportunities.
- Ensure that the City responds effectively to the social, environmental and developmental concerns;
- Encourage a resilient and diversified economy; and
- Support quality jobs that include non-polluting and environmentally conscious high-tech and manufacturing sectors.
- Promote a new model for Industrial Development that is "green" and sustainable.

Assumptions

This plan is based on several assumptions and values that have been identified through this planning process as well as other citywide planning processes.

- Growth will occur and can be beneficial if managed correctly.
- Environmentally contaminated areas will be cleaned up.
- Management and protection of critical resources is necessary.
- The area's unique environment needs to be preserved.
- The supply of essential services must be coordinated with City agencies in a cost-effective manner.

Fulfilling these goals will be challenging. Nevertheless, City leaders, technical and advisory committees, stakeholders and the public are motivated by the challenge of creating a sustainable area of the city in an economically viable fashion and are committed to a successful outcome.

Existing Conditions

Physical Description

The Northwest Quadrant is a vast, flat tract of land in the western portion of Salt Lake City, totaling approximately 43 square miles or nearly 28,000 acres. The Great Salt Lake forms a northwestern boundary for the northern half of the Northwest Quadrant: to the west lie the Oquirrh Mountains; to the east are the Salt Lake City International Airport, and the West Salt Lake Community; and Magna and West Valley City lie to the south.

Historically, portions of the Northwest Quadrant, north of I-80, have been used for grazing, light farming, and hunting. Today, several hundred acres include a working ranch (Gillmor) that has been recognized as a Centennial Ranch, being operated by the same family for over 100 years. In the past, large canals and ditches were dug for irrigation purposes and to carry spring runoff from the mountains to the Great Salt Lake, and more recent stormwater management systems have bifurcated the natural water regime. Habitat and scenic resources found in the area include the Bailey's Lake floodplain. While outside the Northwest Quadrant, it is noteworthy that as mitigation for mining operations, Kennecott Utah Copper has established the Inland Sea Shorebird Reserve adjacent to the western boundary.

The land in the Northwest Quadrant, which includes low elevations and highly liquefiable soils, pose challenges to development in the area north of I-80. Additionally, this area adjacent to the Great Salt Lake is highly affected by seasons, drought and flood cycles, groundwater levels, changing lake levels and impacts from human activities, including recreation, vandalism, illegal dumping, noise, stormwater runoff, and closed landfills.

Existing development is comprised of a significant number of industrial land uses, the International Center, the City's western industrial warehouse and distribution facilities, mining operations, and landfills. Significant nearby development includes the Salt Lake City International Airport, the Inland Sea Shorebird Reserve and the Rio Tinto, Kennecott Utah Copper tailings impoundment.

Great Salt Lake



The water surface elevation of 4,212 feet above sea level represents the recorded historic high water elevation for the Great Salt Lake, which occurred in 1986 and 1987. During 1987 to 1989, pumping by the West Desert Pumping Station occurred to lower the lake's surface water elevation. Water levels also reached this elevation in 1866 and 1867. The historic low water elevation for the period of record (1845-present) was recorded in 1965 at an elevation nearly 20 feet lower at 4,191 feet above sea level. Wind and wave action may pose a hazard risk five feet or more above the historic high water elevation, making the hazard risk elevation 4,217 feet. Salt Lake City does not permit habitable development below elevation 4,217 feet.

Natural Hazards

The lands in the Northwest Quadrant may be susceptible to natural hazards and will pose challenges to potential developement. Much of the land, especially north of I-80, contain wetlands, highly liquefiable soils, flood plains, and fault lines. Each of these on their own pose significant challenges, though the cumulative impact of these natural challenges will further impose challenges to development.

Wetlands: The proximity to the shores of the Great Salt Lake naturally bring a natural presence of wetlands in the area. Wetlands cover much of the land near the northern boundary of the Northwest Quadrant and north of I-80. Wetlands are vital for wildlife habitat and ecosystem functions and any type of proposed development on wetlands require remediation to counteract the loss of wetlands.

Liquefaction: The entire Northwest Quadrant area contains highly liquefiable soils. Liquefaction is determined by soil structure. When pressure or stress (i.e. eathquake) is applied to highly liquefiable soil, the soil begins to act like a liquid, which will likely cause severe damage or destruction to buildings. Building in highly liquefiable areas requires additional building needs in which soil stabilization methods are employed.

Flood Plain: The area north of I-80 contains canals and the areas adjacent to these canals are prone to flooding during high precipation and high flow periods.

Fault Lines: The eastern portion of the Northwest Quadrant contains fault lines that can further impact development.

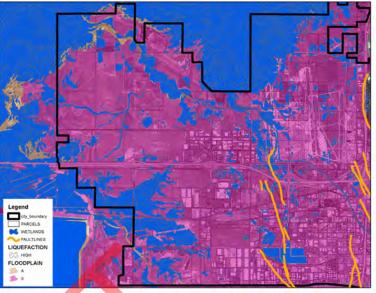
Zoning & Land Use

Current Zoning. As shown in Figure 1, the Northwest Quadrant is currently zoned Agriculture, Manufacturing, General Commercial, and Open Space. Vacant areas are primarily zoned Manufacturing, Agriculture, or Open Space.

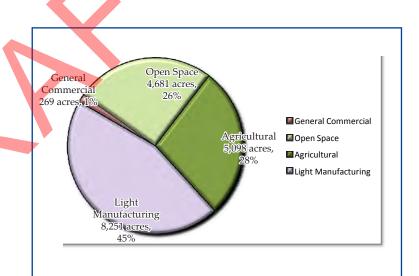
The Agricultural zoning is intended to act as a holding zone until final zoning is determined with the adoption of a master plan for the area. The existing Agricultural zoning allows for single family development on 10,000-square-foot lots.

Other applicable regulations include the Landfill Overlay, the Airport Overlay Zone, which restricts certain development types around the airport; and the Lowland Conservancy District, which protects canals, drainages, and lowland areas from substantial development impacts.

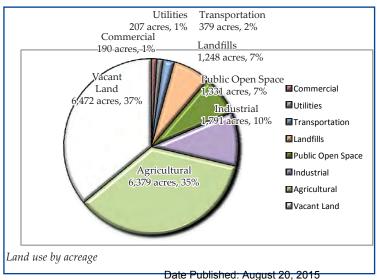
Current Land Use. As shown in Figure 2, approximately three-quarters of the land in the Northwest Quadrant is undeveloped, with uses including wildlife management, ranching, farming, and brownfields (i.e., landfills needing reclamation). Thirty-five percent of the community consists of agricultural uses. A



PLACEHOLDER MAP







relatively small group of property owners control the majority of the Northwest Quadrant's undeveloped land, providing a unique opportunity for quality planning. Developed lands consist of light industrial, intermodal facilities, airport related uses, distribution, commercial, and office. The tailings impoundment and existing landfills are located adjacent to industrial property. A major regional rail line and extensive highway infrastructure, which exist throughout the area, support many distribution and warehouse businesses. The Lee Kay Center for hunter education and shooting range facilities, owned by Division of Wildlife Resources and located between 1350 South and 2100 South and west of 5650 West, is the largest public open space in the Northwest Quadrant.

Demographics & Businesses

The Northwest Quadrant is one of the City's key employment areas. It contains numerous industrial warehousing and distribution uses. Including the International Center and the Salt Lake International Airport, over 30,000 jobs exist within and immediately adjacent to the Northwest Quadrant.



The Governor's Office of Management and Budget has produced economic projection estimates that forecast a large demand for new employment uses in the region. In 25 years, Salt Lake County should

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expect to add approximately 251,000 new jobs (31% growth), focusing on education and health services; professional and business services; government; and trade, transportation, manufacturing, and utilities sectors.

Due to the existing transportation network, large lot sizes, low vacancy rates and a focus on industrial and warehousing uses, the Northwest Quadrant could fulfill the City's need for industrial land, annually supporting over 250,000 square feet per year of industrial space. New hotel uses will also be supported in the area.

Roadways & Transit

I-80 bisects the Northwest Quadrant, I-215 borders the east edge, and SR-201 traverses the south edge; all provide regional access to developed sites. North of I-80, large expanses of undeveloped land are served by unmaintained dirt roads.

The Airport light rail line was completed in 2013 and connects the airport to Downtown and the regional transit system. This plan identifies the possible extension of the Airport line as a way to provide transportation options to the Northwest Quadrant.

Roadway	Segment	AADT
I-80	Bangerter to Wright Brothers Drive	54,045
I-80	West of 5600 West	26,885
Bangerter Hwy.	SR-201 to I-80	32,700
SR-201	Bangerter to 5600 West	66,800
5600 West	Bangerter to I-80	19,565
Amelia Earhart	Entire corridor	1,495
5600 West	North of I-80	3,305
700 South	Bangerter to 5600 West	1,545
California Avenue	Bangerter to 5600 West	7,775

Average annual daily traffic for major roads

The Utah Transit Authority (UTA) operates five bus routes, serving various destinations in the Northwest Quadrant. Some routes serve the International Center, while others serve the industrial park area between California Avenue and SR-201.

Planned Transportation Improvements. A great opportunity exists to create a multi-modal, environmentally sensitive, and well-connected

Date Published: August 20, 2015 Northwest Quadrant Master Plan | 11 transportation system that provides appropriate transportation choices. The 2006 Salt Lake City Transportation Master Plan identifies several roadway and transit improvements within and adjacent to the Northwest Quadrant.

The Mountain View Corridor has undergone an Environmental Impact Statement (EIS) to determine the most appropriate location for a new North/South transportation corridor for the western side of the valley. UDOT's preferred alignment runs just west of 5600 West, and involves a system to system connection approximately halfway between the two existing interchanges on I-80. The proposal also includes highcapacity public transit along 5600 West.

Planned improvements for arterial streets focus on increasing capacity near existing job centers, specifically by providing a "ring" road north of the International Center and improving roadways around California Avenue. Planned improvements for collector streets focus on the area between I-80 and 700 South and around 5600 West, and include 5700 West, 6600 West, 5500 West, 5200 West, and 300 South.

Open Space, Trails & Recreation

Due to its undeveloped nature, there is presently very little in the way of existing developed parks, trails, and recreation facilities in the Northwest Quadrant. There is an off-street shared use trail along West North Temple and Lee Kay to the airport that connects to dedicated bike lanes on West North Temple. A dedicated trail head for this off-street section of the Airport trail lies at the intersection of West North Temple and North 2400 West. Due to airport security regulations, the trail is open to the public during the day but is restricted at night and during times of national emergency.

The 2004 Salt Lake City Bicycle and Pedestrian Master Plan indicates a proposed trail around the west side of the airport, planned as a 10-foot wide shared use trail connecting 2200 North with the existing shared use path south of the airport. It is envisioned that besides being a popular route for bicyclists, this new route may also become a favorite for hikers and nature viewers since it passes through the large wetlands and playas PLNPCM2009-00168 along the shores of the Great Salt Lake.



The 1992 Salt Lake City Open Space Master Plan recognized that the Northwest Quadrant should be protected where necessary, and celebrated and utilized for public recreation where appropriate. These resources offer an opportunity to establish an area whereby residents can enjoy the scenic views, recreational opportunities, and ecological functions naturally afforded to them.

Passive recreation and trails are envisioned as significant components within this Master Plan.

12 | Northwest Quadrant Master Plan

Salt Lake City International Airport

The Salt Lake City International Airport is located adjacent to the Northwest Quadrant, but designated future airport expansion lies within the eastern edge of the area. The airport is currently in the beginning of a major expansion that will result in reconstruction of the terminal's parking areas and other passenger services. The reconstruction will also include relocating and routing of the Airport light rail line.

The need for a fourth parallel runway was addressed in an "Airport Layout Plan Update "study in 2006. The time frame for the new runway is uncertain, however the study recommends that additional capacity should be considered before the airport begins to experience significant operational delays. As a proactive measure to comply with the study recommendation, the airport has begun the process of acquiring land as it becomes available. This runway will parallel the western most runway and will require the demolition of multiple buildings and relocation of multiple uses located in the eastern portion of the International Center.



North Temple Landfill

The North Temple Landfill was operated from 1959 to 1979. The landfill covers approximately 790 acres and houses an estimated 5.3 million cubic yards of municipal solid waste. The refuse cells vary in depth from 2 to 20 feet. Excavations and boring have revealed a wet environment wherein rapid degradation of the waste has occurred. This is due to a permeable cap of native soil and a fairly thick bottom layer of clay.

The North Temple Landfill has been accepted into the voluntary clean-up program administered through the Utah Department of Environmental Quality, Division of Environmental Response and Remediation. Not only is this landfill an eyesore at the Gateway of the City, its location is an obstacle to extending roads and utilities in the area north of I-80 and precludes any higher or better land use and could pose significant environmental impacts in the area if not properly remediated. Remediation of



the landfill will not only enhance economic development opportunities for the City, but it will also remedy an enormous environmental liability while preventing any further degradation of the area.

Cannon Pioneer Landfill

The Cannon Pioneer Landfill was operated as a landfill from 1968 until 1975. The landfill covers an area of approximately 250 acres. Depth to groundwater is less than 10 feet. It is estimated that there is approximately 1.1 million cubic yards of waste disposed at the landfill.

This Master Plan, and the development opportunities described herein represent a cooperative effort by many who recognize the significant environmental impacts these two landfills have and will continue to create in this area. Remediation of these sites are necessary for the Northwest Quadrant vision to be realized.

Map showing location of these two sites

Regionally Significant Scenic & Wildlife Resources

Inland Sea Shorebird Reserve

Directly adjacent to the Northwest Quadrant, Kennecott Utah Copper's Inland Sea Shorebird Reserve (ISSR) is a 3,670-acre shorebird and waterfowl reserve along the south shore of the Great Salt Lake. Created to offset the loss of wetlands affected by expansion of its tailings impoundment, it is now one of the largest wetland mitigation banks in the United States. By cleaning the site and directing and damming water sources to sustain the wetlands, the area was transformed into an important component within the Great Salt Lake ecosystem.

Consisting of five mitigation ponds and four additional ponds, the ISSR primarily serves as refuge for shorebirds and waterfowl, though deer, antelope, rabbit, skunk, coyote, red fox, voles, field mice, chorus frogs, racers and gopher snakes are often spotted on site. The number of bird species at the ISSR has grown from 50 in 1995 to more than 150 today, including snowy plovers, American avocets, long-billed curlew, peregrine falcons and burrowing owls.

The ISSR is part of a larger ecological unit, Gilbert Bay, which was accepted in 2004 as a BirdLife International and National Audubon Important Bird Area, recognizing the area for its outstanding value to bird conservation.



South Shore Preserve

The Gillmor Audubon Sanctuary and South Shore Preserve lies north of the Kennecott Inland Sea Shorebird Reserve. The South Shore Preserve consists of approximately 2,700 acres of wetland and uplands. The land is part of the Great Salt Lake ecosystem.

Bailey's Lake

Bailey's Lake is a geological landform created by the Jordan River as it ran through the area during prehistoric time. For thousands of years the main channel of the river flowed south of Bailey's Lake. Alluvial materials deposited as the river slowed to enter the Great Salt Lake and built a large delta. Remnants of deltic features can be observed today between the Goggin Drain and I-80. When the river changed course and began flowing outside its previous channels and banks, it eroded unconsolidated Lake Bonneville sediments and cut deeply to create the incised channel meander, which today is referred to as Bailey's Lake. The Jordan River continued to alter its course, moving to the east to its present location, and no longer courses through Bailey's Lake, nor is it now within the Northwest Quadrant.

This landform extends over three miles in length and exceeds half a mile in width in some areas. The interface between the upland and Bailey's Lake is sudden, abruptly dropping in elevation. A system of wetlands occurs throughout this riverbed system.



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LAND USE

(Placeholder Photo)

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03 Land Use Plan

Common Terms

Certain terms repeat throughout the Northwest Quadrant Plan. To gain a common understanding, these terms are explained in this section.

This plan uses the terms Guiding Principle and Policy to describe the directives of the plan.

- **Guiding Principle** means the general direction that the City, developers, and other stakeholders should take to implement this plan.
- **Policy** means the specific tasks that the City, developers and other stakeholders should perform to implement the master plan. A listed policy may contain a list of specifics that are intended to further explain or provide examples of how a policy may be implemented. The list is not intended to be exclusive.

The land use plan is based on a development boundary. The development boundary identifies areas that should be protected from development and areas where development is appropriate.

Public Process

For a variety of reasons, the public process for creating the Northwest Quadrant Plan has been drawn out over several years.

The first round of engagement occurred in 2007. Community outreach included 15 Planning Team meetings, 9 Master Plan Advisory Committee meetings, 11 Technical Resource Committee meetings, 60 stakeholder interviews, work sessions with property owners and environmental groups, site visits, and presentations to the Chamber of Commerce and Salt Lake City advisory groups. These include the Airport Board, Public Utilities Advisory Committee, Open Space Lands Advisory Board, Transportation Advisory Board, and the Business Advisory Board. In addition, public hearings were held before the Planning Commission and City Council, and two public workshops were held to seek input from the entire Salt Lake community.

The first public meeting, a Visioning Workshop, was held in January 2007 at the Salt Lake City Main Library to define the components of a new sustainable community. The purpose of the Visioning Workshop was to outline the Vision for the Northwest Quadrant by recommending components of a sustainable community. Attendees were asked to describe the components of a sustainable community that formed the basis of the Vision.



The second public meeting, a Big Ideas Workshop, was held in November 2007, and focused on review and refinement of the new sustainable community based on three frameworks: Environmental, Transit, and Centers. These three frameworks were overlayed to determine where development should occur. Sustainability indicators were later identified to evaluate the success of the final Master Plan in meeting the Vision.

Throughout 2008, the plan went through a series of renditions before reaching the Planning Commission in 2009. The Planning Commission recommended that the City Council adopt the plan.

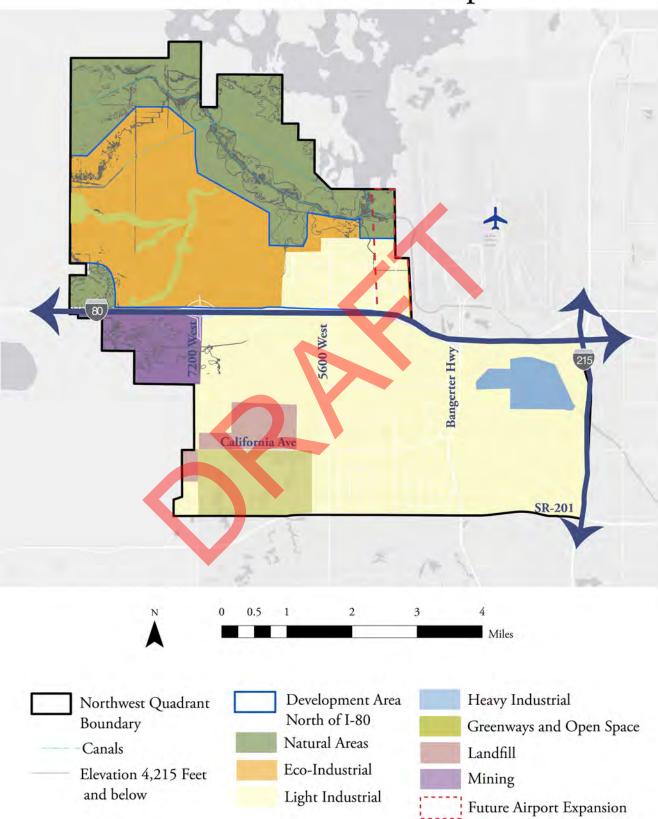
No action was taken on the plan until 2015, when the council adopted a resolution supporting reconsideration of the Northwest Quadrant Plan, and noted that the following principles may be considered in the revisions to the plan:

- Preserve areas for future industrial, manufacturing, research or distribution.
- Preserve areas for future airport expansion and airport related industry.
 - Create economic opportunities by linking the location of jobs with transportation and housing options.
- Concentrate commercial and industrial development near major transportation corridors.
- Encourage industrial and manufacturing uses adjacent to I-80 and around the intermodal rail facility.
- Preserve and enhance natural ecological functions.
- Conserve and manage open space for the continued health of the natural environment and enjoyment of the region's residents.
- Protect high quality nesting areas used by species sensitive to human intrusion.
- Determine areas of significant habitat and incorporate appropriate buffers between habitat and development areas.
- Plan for strong residential base to support mixed-use centers, and develop neighborhoods within walking distance of mixed-use centers.
- Design communities to encourage social interaction and support family and community relationships.
- Cluster residential development to minimize land consumption and create quality environmental conservation areas.

After the resolution was adopted, the City began formulating a process to update the plan. The 2009 version of the plan included a residential component. However, that version lacked the support to be adopted. In addition, throughout the earlier process, a number of environmental groups cited issues with residential development in the area. Given this and the nature of existing uses in the area, the residential component was removed from this plan.

Attempting to capitalize on the previous engagement efforts, the City focused on reworking the plan and getting feedback on a revised version of the plan instead of starting from scratch. Throughout the summer of 2015, the City worked with various stakeholders and property owners, and the general public to develop this plan.

Northwest Quadrant Future Land Use Map



FUTURE LAND USE

This section describes each of the land use categories (no build/protection area, existing landfill, industrial/ manufacturing/office area) shown on the future land use map.

Natural Areas: areas that should remain free from development and intended to be maintained as native as possible, with very little human intrusion. The primary purpose of this area is for habitat preservation, to sustain biodiversity, and protect the sensitive lands along the shores of the Great Salt Lake, wetlands, playas, etc. This land is mostly below the 4,217 elevation, which is 5 feet above the historic high water line of the Great Salt Lake.

Greenways and Open Space: greenways are areas that run through and between development that connect important habitat to larger natural areas. Also, trails are an important feature of greenways. Open spaces are areas that are intended to be preserved primarily for outdoor activities and recreation. These areas should be protected, but small buffers are acceptable.

Eco-Industrial Park: light industrial areas that also include land uses that employ a high number of people, such as offices, manufacturing, and industrial uses. These uses are generally located in close proximity to one another for mutual benefits while also limiting environmental impacts. The primary purpose of an eco-industrial park includes reducing environmental impact, increasing economic prosperity through the creation of a circular economy, and promoting a new positive social impact. These uses are designed and built to minimize their impact on the environment and ecological systems, and decrease the interface between development and wildlife. Buildings may be up to six stories in height.

Light Industrial: light industrial areas include uses that produce little or no pollution but require a lot of land. Uses such as warehousing, manufacturing, food production, assembly, and other similar uses are commonly found in the light industrial areas. Uses that require outdoor storage of new, clean materials are generally acceptable. Light industrial areas also include support services, such as restaurants, limited retail, fuel centers, and other uses necessary to support the light industrial uses. **Heavy Industrial:** uses that produce noise, odors, and other similar impacts are included in the Heavy Industrial category. These areas generally are somewhat isolated from other land uses and are not located adjacent to sensitive lands. Heavy industrial includes uses such as steel fabrication, the storage or manufacturing of chemicals or explosives, fuel storage and other uses.

Landfill: areas that currently operate as a solid waste disposal facility. Landfills are a necessary component of the City and create unique impacts. Land uses adjacent to landfills should expect to experience a certain level of nuisance, such as odor, noise and dust.

Mining: the Kennecott tailings pond is mostly located outside of the City, but the base of the tailings pond extends into the City. The planned expansion of the tailings pond encroaches further into the City. The pond is exempt from local regulations.

Natural Areas

City Planning Context

The natural environment is a major influence on Salt Lake City. As a community, we value our natural setting and understand its necessity to sustain biodiversity, ecosystem functions and quality of life. The following plans provide overall guidance for this chapter.

Plan Salt Lake is the citywide vision plan that establishes a road map for future growth. It represents the commonly held values of residents, business owners and stakeholders and establishes a framework for future community master plans to carry out the greater vision for Salt Lake.

Minimize our impact on the natural environment. Plan Salt Lake Natural Environment Guiding Principle

Plan Salt Lake describes the citywide values related to the natural environment and includes a number of initiatives related to it. Initiatives are those things that, collectively, will be worked on by the government, property owners, developers, residents, and others.

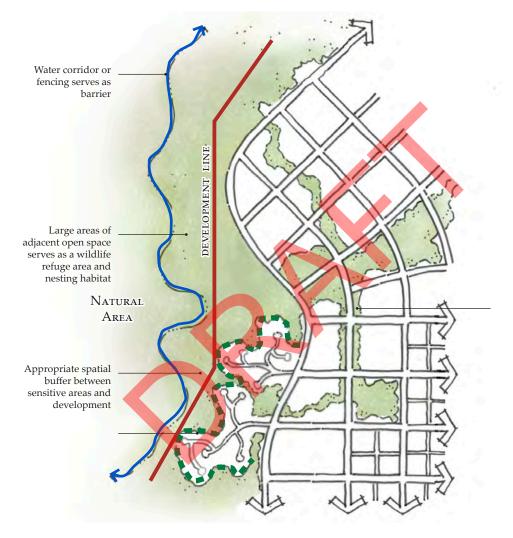
The City also has several citywide master plans that are applicable to the Northwest Quadrant. These include the Transportation Plan, the Pedestrian and Bicycle Master Plan and Parks and Open Space Plan. The Moving Forward section of the Northwest Quadrant Master Plan identifies how each item relates to the citywide initiatives outlined in Plan Salt Lake and other citywide master plans.

The Great Salt Lake is a very unique natural amenity to our region and an important national treasure. The shores of the lake are sensitive areas that provide critical wildlife habitat. The land is subject to natural fluctations in water levels which creates the variety of habitats important to a balanced ecosystem. The lake has seen the water level change over the years, from historic high levels that inundated parts of the area north of I-80 to its current level almost 20 feet lower than its historic high.

The Goals for the Natural Area are listed on the following page. To accomplish these goals, the Northwest Quadrant Plan identifies key policies and initiatives that are intended to provide general direction on how the goals can be achieved.

Goals of Natural Areas:

- Protect the Great Salt Lake Ecosystem
- · Protect, conserve, and restore native wildlife habitat, wetlands, and water bodies
- Protect water quality
- Protect global flyways
- · Protect people and property from flooding
- Support agricultural uses in the natural areas



Conceptual drawing showing the development that may occur within the development line and the preserved natural areas.

Natural Areas

Natural Areas, consisting of the most sensitive resources, are characterized by protecting existing natural habitat areas, restricting human access and eliminating impact from development. The Natural Areas are generally found north of the Development Line. The Natural Areas include lands that sit below an elevation of 4,215 feet above sea level. This elevation is important because it relates to the historic high water level of the Great Salt Lake (4,209 feet) plus the natural phenomenon of waves developing on the lake that have the ability to reach up to 5 feet higher than the water line.

Consolidated wetland systems, key uplands, and the Lake's floodplain are included in the Natural Area. Bailey's Lake and the edges of the Goggin Drain are within this area and could be restored, recreating the historic lake bed and enhancing wildlife habitat. Buffers, including a variety of barrier features such as open space, limited access roads, swales, fences, and berms should be used to restrict access and limit damage.

The lands included in the Natural Areas generally include:

- Lands within the 100 year flood plain;
- Lands that are already protected from development, including those under conservation easements;
- High functioning wetlands, such as open water, emergent marsh, wet meadow, transitional wet meadow and playas; and
- Baileys Lake Complex

MOVING FORWARD > > >

As we move forward with protecting the natural environment in the Northwest Quadrant, it is important to identify key guiding principles and policies that will help provide direction and aid in the decision making process. Each guiding principle is aimed at addressing the initiatives and direction identified in Plan Salt Lake and other applicable adopted master plans of the City. These Guiding Principles, Initiatives and Policies apply to those areas identified as "Natural Areas" on the future land use map and when any future amendments may occur to the "Natural Areas" or any additional land that may be identified as a Natural Area in the future.

GOAL 01 PROTECT THE GREAT SALT LAKE ECOSYSTEM.

Plan Salt Lake initiatives supported by this action:

Growth

- Preserve open space and critical environmental areas
- Natural Environment
 - Preserve natural open spaces and sensitive areas to sustain biodiversity and ecosystem functions.
 - Protect water quality and supply.

Policy NA-1.1. Contribute to the protection of the Great Salt Lake ecosystem.

- Orient development away from high-functioning wetlands.
- Develop preservation priorities with conservation partners and property owners for lands to acquire and permanently protect as natural areas. Coordinate with the Salt Lake City Open Space Lands Master Plan to include these sites.
- Maintain biodiversity by conserving important, consolidated habitat and vegetation that support and are integrally connected with the Great Salt Lake ecosystem, including high-functioning water bodies, riparian corridors, wetlands, uplands, and playas.

GOAL 02

PROTECT, CONSERVE, AND RESTORE NATIVE WILDLIFE HABITAT, WETLANDS, AND WATER BODIES

Plan Salt Lake initiatives supported by this action:

Growth

Preserve open space and critical environmental areas

Natural Environment

- Preserve natural open spaces and sensitive areas to sustain biodiversity and ecosystem functions.
- Protect water quality and supply.

Policy NA-2.2. Avoid disturbance or impacts to consolidated high-functioning wetlands or playa habitats in natural areas.

Policy NA-2.2. Create buffers from high-functioning, consolidated nesting areas.

- Utilize barriers such as natural features, open space, moats, berms, swales, roads, and fencing to protect natural areas from developments in areas where development is permitted.
- Use trails on the edges of natural areas to buffer wildlife habitat from development.

Policy NA-2.3. Conserve and manage plant and animal communities to preserve biodiversity and ecosystem functions.

- Protect landscapes that serve significant concentrations of wildlife and their nesting, breeding, brooding, feeding, and resting areas.
- Protect and buffer consolidated wetland areas associated with the Great Salt Lake to minimize habitat fragmentation.

Policy NA-2.4. Create a permanent conservation easement and develop a restoration plan for the City owned portion of the Bailey's Lake Complex.

Policy NA-2.5. Encourage the restoration of native habitats, water bodies, and wetlands. Use only native plants and control invasive species in natural areas.

- Encourage re-meandering of streams, where appropriate, to restore riparian and wetland functions.
- Encourage stream revegetation with appropriate native vegetation to support healthy riparian ecosystems.

Protect the managed wetlands north of the Goggin Drain.

Policy NA-2.6. Coordinate with the Salt Lake City Open Space Lands Program for the planning and management of preserved and/or restored lands.

- Work with other partners to encourage adequate funding and the creation of funding mechanisms to ensure the long-term management of protected areas.
- For areas to be protected by conservation easements, determine who will own the easement, manage and monitor the area, and ultimately be responsible for funding maintenance.

GOAL 03 PROTECT WATER QUALITY

Plan Salt Lake initiatives supported by this action:

Natural Environment

• Protect water quality and supply.

Policy NA-3.1. Protect water quality and availability.

- Adopt environmentally sensitive water quality control measures within the Northwest Quadrant to prevent the further degradation of existing waterways.
- Preserve water quality by protecting streams, reducing erosion, managing stormwater, and restricting fertilizer within the Northwest Quadrant appropriately.
- Protect against potential threats to water quality, including sedimentation from flooding and pollutant risks from stormwater/sewer overload or malfunction.
- Utilize natural stormwater pollution reduction solutions, such as bioswales, wetlands, pervious surfaces, and other techniques to preserve water quality where appropriate.
- Maintain and improve the banks of the Goggin Drain to prevent further erosion of the banks.



GOAL 04

PROTECT GLOBAL FLYWAYS

Plan Salt Lake initiatives supported by this action:

Natural Environment

• Preserve natural open space and sensitive areas to sustain biodiversity and ecosystem functions.

Policy NA-4.1. Require appropriate buffers for development that is adjacent to natural lands.

Policy NA-4.2. Encourage the protection of the natural areas as a critical location of the global flyway for migratory birds. A flyway is the route between breeding and wintering areas.

- Continue to work at local, regional, and international levels to protect ecosystems along flyways.
- Support a collaboration of mechanisms for flyway conservation, both regionally and globally.
- Discourage loss and degradation of highfunctioning Great Salt Lake wetlands within the Northwest Quadrant.
- Incorporate bird-friendly building design guidelines for the areas where development is allowed.



GOAL 05 PROTECT PEOPLE AND PROPERTY FROM NATURAL HAZARDS

Plan Salt Lake initiatives supported by this action:

Government

• Protect people and infrastructure from crimes and natural hazards.

Policy NA-5.1. Restrict occupied development below the elevation of 4,217 feet and in the 100 year flood plain.

- Allow for development if the elevation of the site is raised to 4,217 feet, with no more than two feet of fill, without impacting sensitive lands and wildlife habitat.
- Restrict development in the 100 year flood plain.

Policy EA-5.2. Encourage and use incentives to clean up brownfield sites and landfills.

Policy EA-5.3 Review the lowland conservancy overlay district and consider modifying its boundaries where it makes sense.

Policy EA-5.4 Consider requiring appropriate geotechnical studies, wetland mapping, and other studies prior to new development occurring north of I-80.



GOAL 06

UPPORT THE CONTINUATION OF AGRICULTURAL SES IN AREA

Plan Salt Lake initiatives supported by this action:

- Parks and Recreation
 - Support urban agriculture and local food systems that produce healthy and sustainable • food for the community, while providing valuable open space.

Policy NA-6.1. Support the continuation of agricultural uses in the area.

- Grazing is the historic use of the area and should be • continued.
- Review and modify regulations and processes related to agricultural uses, agricultural subdivisions, and other related regulations that may make it difficult for grazing to continue.

Policy EA-5.2. Rezone the area north of I-80 incrementally to avoid tax implications for property owners who use their land for agricultural purposes.



Greenways and Open Spaces

City Planning Context

The Greenways in the Northwest Quadrant provide opportunities for people to experience the unique character of natural habitat of the shores of the Great Salt Lake. Greenways allow for trails, wildlife viewing and education opportunities in areas that are disconnected from the Natural Areas. In the context of the Northwest Quadrant Plan, the open spaces are generally found along the southern City boundary along SR-201 and are different than the Natural Areas.

Plan Salt Lake supports integrating open spaces into developed areas for the purpose of providing access to people and to some degree, supporting wildlife habitat and native landscapes.

Protecting the natural environment while providing access and opportunities to recreate and enjoy

nature. Plan Salt Lake Parks and Recreation Guiding Principle

Greenways are areas that contain some wildlife habitat, low functioning wetlands, old river and stream channels, canals, uplands, and other similar lands. Greenways are generally found in the development area and may be disconnected from other wildlife habitat located in the Natural Areas.

Greenways can serve as natural areas, open space and multipurpose utility corridors, providing green infrastructure, creating pedestrian corridors, providing active recreational uses, and creating wildlife corridors. Greenways may connect the developed areas north and south of I-80 and provide links to regional trail corridors serving the greater Salt Lake Valley.

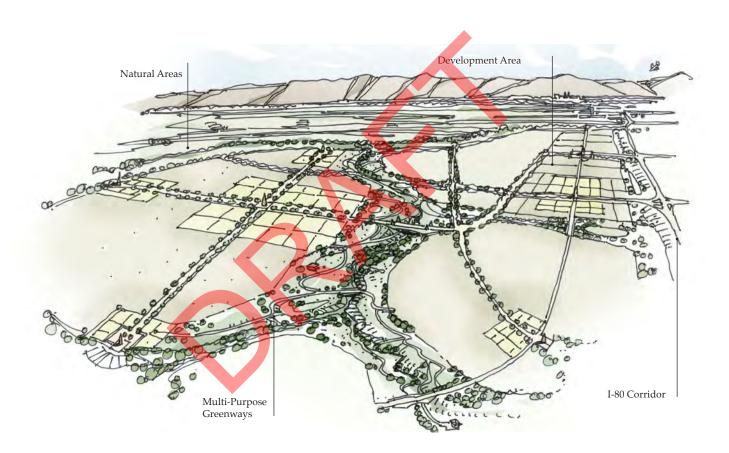
Open Spaces are generally found south of the existing City and County Landfill. They consist of water bodies as well as recreational opportunities such as the Lee Kay Center for Hunter Education. A trail system is planned as part of the Mountain View Corridor project that the

PLNPCM2009-00168

Utah Department of Transportation is undertaking. This trail has the potential to be a key link in a regional trail system and could connect the open spaces near SR-201 with the Greenways.

Goals of Greenways:

- Provide and maintain a high quality, safe, and affordable trail network
- Foster public understanding and stewardship of the natural environment within Greenways.
- Support more developed recreation opportunitites in the open spaces near SR-201.



MOVING FORWARD > > >

As we move forward with protecting the natural environment in the Northwest Quadrant, it is important to identify key guiding principles and policies that will help provide direction and aid in the decision making process. Each guiding principle is aimed at addressing the initiatives and direction identified in Plan Salt Lake and other applicable adopted master plans of the City. These Guiding Principles, Initiatives and Policies apply to those areas identified as "Greenways and Open Space" on the future land use map and when any future amendments may occur to the "Greenways and Open Space" or any additional land that may be identified as a Natural Area in the future.

GOAL 01

PROVIDE AND MAINTAIN A HIGH QUALITY, SAFE AND AFFORDABLE TRAIL NETWORK

Plan Salt Lake initiatives supported by this action:

Natural Environment

Increase education regarding stewardship of natural lands

Equity

Ensure access to all City amenities and services

Policy GW-1.1. Develop trails that connect through the development area and to other trail systems.

- Encourage the development of interpretive features, such as signs, trails, boardwalks, and viewing towers.
- Design trails at an adequate width for multiple use and ongoing maintenance, and with adequate setbacks from adjacent roadways and private property.
- Provide both paved and non-paved trails to accommodate a variety of users and variety of experiences, from urban to natural landscapes.
- Integrate bike and pedestrian improvements into roadway designs. Designate bike routes to encourage commuting and traveling within the area by bicycling.
- Segregate trail use along highly congested trail segments to avoid trail user conflicts. Encourage the use of signs, speed control devices, and other methods to promote safety in these areas.
- Require that all recreation facilities meet or exceed the requirements of the Americans with Disabilities Act (ADA).

Policy GW-1.2 Support the construction of the trail associated with the Mountain View Corridor and work on connecting the trail to the Greenways north of I-80.

SUPPORT DEVELOPED RECREATION OPPORTUNITIES IN THE OPEN SPACES NEAR SR-201

Plan Salt Lake initiatives supported by this action:

Natural Environment

• Increase education regarding stewardship of natural lands

Equity

· Ensure access to all City amenities and services

Policy GW-2.1. Support the Lee Kay Center for Hunter Education in its current location.

Policy GW-2.2 Encourage more intensive active recreation uses to the south of I-80, including possibly a BMX/ ATV park.

GOAL 03

FOSTER PUBLIC UNDERSTANDING AND STEWARDSHIP OF THE NATURAL ENVIRONMENT

Plan Salt Lake initiatives supported by this action:

Natural Environment

• Increase education regarding stewardship of natural lands

Equity

· Ensure access to all City amenities and services

Policy GW-3.1. Develop opportunities to encounter the natural environment in order to appreciate and learn from it.

- Work with environmental groups to promote education materials related to the Great Salt Lake.
- Encourage the development of interpretive features within Greenways

Development Areas

City Planning Context

The Northwest Quadrant includes most of the industrial areas of the City west of I-215. The industrial parks, such as the International Center, provide quality jobs and contribute to a healthy and sustainable economy. The proximity to Salt Lake International Airport, I-80, I-215, Bangerter Highway and the connection to a major freight rail line and intermodal rail transfer facility make the area highly competitive from an economic standpoint. No other location in Utah has this kind of access.

Environmental and economic goals are often not in sync with each other. This plan strives to balance the need for environmental protection and preservation with the need for a robust economy. This is accomplished by establishing the framework for an "eco-industrial park" north of I-80 and supporting continued growth in the industrial areas of the City south of I-80. This concept attempts to allow for development while incorporating environmentally sensitive designs to reduce the impact on the natural environment.

The economic health of the City is an important indicator of the overall success of the City. Without a strong economy, many of the quality of life goals of the City would be difficult to realize. Complicating the economic health of the City is the fact that the Salt Lake City economy competes with other cities in Utah, the intermountain region and globally. The Northwest Quadrant provides the City with an economic advantage over other cities given its location and access.

Plan Salt Lake supports a balanced economy and the

industrial sector is a major part of the City's economy. The Northwest Quadrant Plan is in some regards an economic development strategy. It provides direction on what types of businesses can thrive in an ecoindustrial park and in our more traditional industrial areas.

A balanced economy that produces quality jobs and fosters an environment for commerce, local business, and industry to thrive. Plan Salt Lake Economy Guiding Principle

One of the big picture goals of *Plan Salt Lake* is to maintain the City as the center of Utah's economy and a leader in the Intermountain West. It recognizes the importance education has on our economic advantage and the role that changing technologies have in supporting entrepreneurship, investment and long term economic sustainability.

The goals and policies found in this section are intended to support the continued growth of our industrial areas and the establishment of an eco-industrial park north of I-80. The Future Land Use Map provides a general description and location of each land use category, while the goals and policies provide direction and guidance on future development within the identified land use categories.

Potential for Growth

Compared to other metropolitan areas of approximately the same size, Salt Lake City could support several additional centers without competing with Downtown. The 2007 Update to the Envision Utah Values Study found that people prefer future growth within existing communities or within centers. Currently boasting 30,000 existing jobs within and adjacent to the Northwest Quadrant, the area already has a substantial employment base.

The Northwest Quadrant represents the largest economic development opportunity along the Wasatch Front. Over 60,000 employees could one day work in the Northwest Quadrant. A new employment center forms an expanded economic center, including mid-rise buildings, walkable office/commercial, and a local and regional transit hub, creating an appropriate gateway to Salt Lake City.

The industrial base of Salt Lake City is ensured through the identification of additional industrial lands, reuse of underutilized industrial lands, redevelopment, and the cleanup of key brownfield sites. This protects the employment and industrial base of Salt Lake City.

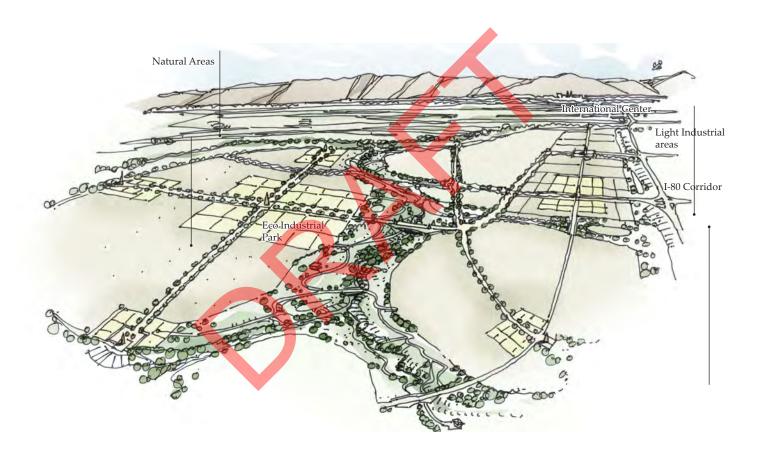
Some areas of the Northwest Quadrant have more sensitive natural environments than others. Great care must be practiced to protect the natural environment, while allowing other areas to develop and help sustain the City's economy.

In order for the area to develop appropriately, new infrastructure is required. This infrastructure includes streets, rail lines and utilities. To fully capture the economic development potential, high speed internet access is necessary. It is important that the area develop in a phased approach and the utilities built to accommodate future demand in an incremental approach, preferably from east to west. Infrastructure may be the biggest deterrent to economic development in the area. Figuring out how to pay for new infrastructure, the long term maintenance of the infrastructure, and preserving future utility corridors is critical to the success of the area.

The Northwest Quadrant presents numerous natural hazards that need to be considered prior to new development occurring. The potential for soil liquefaction in the area is high. Much of the area has wetlands, including playa, which is subject to Federal regulation and oversight. The ground water may be close to the surface. There are some fault lines in the eastern part of the area. All of these factors increase the cost and may add considerable time to the permitting process. These hurdles require special consideration when it comes to rezoning the area north of I-80 and issuing building permits.

Goals for Development Areas:

- Preserve areas for future office, industrial, manufacturing, research and distribution land uses.
- Encourage the continuation and expansion of the Salt Lake International Airport and airport related industries.
- Concentrate development along major transportation corridors first.
- Promote infill development.
- Develop 7200 West and I-80 as a major gateway to the City.



MOVING FORWARD > > >

Promoting the Northwest Quadrant as an economic engine for the City is a key goal of this plan. It is important to identify key guiding principles and policies that will help provide direction and aid in the decision making process. Each guiding principle is aimed at addressing the initiatives and direction identified in Plan Salt Lake and other applicable adopted master plans of the City. These Guiding Principles, Initiatives and Policies apply to economic development activities in the area.

GOAL 01

PRESERVE AREAS FOR FUTURE OFFICE, INDUSTRIAL, MANUFACTURING, RESEARCH OR DISTRIBUTION USES

Plan Salt Lake initiatives supported by this action:

Growth

- Promote infill and redevelopment of underutilized lands
- **Air Quality**
- Ensure local industries meet stringent environmental standards **Economy**
 - Encourage a resilient and diversified economy

Policy DA-1.1. Preserve land for industrial expansion south of I-80, ensuring the City's economic sustainability.

Policy DA-1.2. Work with property owners to ensure the continuation and expansion of mining operations is done in an environmentally responsible manner and restricted to the area south of I-80.

- Coordinate with Kennecott and other affected owners regarding future expansion plans and consider the social, economic and environmental impacts/benefits of expansion.
- Maintain compatible land uses that currently exist around the tailings impoundment and utilize buffers such as fencing, screening, earth berms and natural landscaping to protect adjacent land uses.

Policy DA-1.4. Use appropriate industrial and office uses to buffer natural resources.

- Promote pollution control equipment on all buildings and for all industrial/manufacturing uses.
- Restrict storm runoff from parking lots flowing directly into natural areas and green corridors.
- Utilize appropriate buffers and landscapes, including bioswales, to limit the impact development has on natural areas and green corridors.

Policy DA-1.5 Provide areas for land uses that can support the workers and visitors to the area, such as restaurants, gas stations, and uses that provide daily needs.

<u>GOAL 02</u>

ENCOURAGE THE CONTINUATION AND EXPANSION OF THE SALT LAKE INTERNATIONAL AIRPORT AND AIRPORT RELATED INDUSTRIES.

Plan Salt Lake initiatives supported by this action:

Growth

• Locate new development in areas with existing infrastructure and amenities, such as transit and transportation corridors.

Transportation

• Support and enhance the Salt Lake International Airport as a regional and international amenity (including freight).

Government

• Maintain and enhance City infrastructure in a way that is equitable and fair.

Policy DA-2.1. Coordinate with the airport on future expansion plans.

Policy DA-2.2. Continue to support land uses that benefit from being adjacent to the airport.

Policy DA-2.3. Encourage the continuation and expansion of the Salt Lake International Airport and airport-related industry.

- Reserve some land adjacent to the Airport to allow for future runway expansion.
- Coordinate with the Airport on future expansion plans.
- Maintain the high level of compatible land uses that exist around the Airport today.

CONCENTRATE DEVELOPMENT NEAR MAJOR TRANSPORTATION CORRIDORS FIRST

Plan Salt Lake initiatives supported by this action:

Growth

• Locate new development in areas with existing infrastructure and amenities, such as transit and transportation corridors.

Transportation

• Support and enhance the Salt Lake International Airport as a regional and international amenity (including freight).

Government

• Maintain and enhance City infrastructure in a way that is equitable and fair.

Policy DA-3.1. Encourage industrial, manufacturing, and major office uses to develop in the areas south of I-80 and the International Center first.

- Target economic development opportunities in the existing M-1 and M-2 zoning districts.
- When opportunities arise to develop an ecoindustrial park north of I-80, work with economic development partners to promote the area.

PROMOTE THE INFILL AND REDEVELOPMENT OF UNDERUTILIZED AREAS

Plan Salt Lake initiatives supported by this action:

Growth

- Promote infill and redevelopment of underutilized land.
- Air Quality
 - Ensure local industries meet stringent environmental standards.

Policy DA-4.1 Work with property owners, environmental groups, government agencies and other parties to perform environmental remediation of the North Temple and Cannon Pioneer landfills.

- Restore brownfields (old landfills, other potentially contaminated sites) to appropriate productive use areas.
- Identify funding sources for environmental remediation.
- If full remediation is not viable, consider partial remediation to extend 7200 West north of I-80.
- Consider interim uses for the property that may not require full remediation, such as a solar farm.

Policy DA-4.2. Promote infill and redevelopment of vacant or underutilized parcels within the area.

Encourage utilization of developable lands within the Northwest Quadrant through the consolidation of Natural Areas, and the use of habitat mitigation strategies.

Where appropriate, utilize incentives such as reimbursement/ credit of fees, site design flexibility, the fast tracking of infrastructure and planning, Redevelopment Agency tax-increment financing of improvements, and other options to encourage development, redevelopment, and remediation.

DEVELOP 7200 WEST AND I-80 AS A MAJOR GATEWAY TO THE CITY

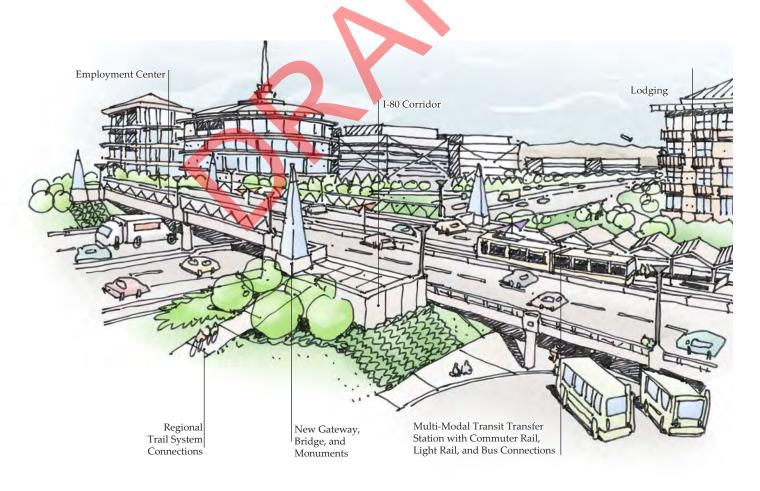
Plan Salt Lake initiatives supported by this action:

Growth

- Promote infill and redevelopment of underutilized land.
- Air Quality
 - Ensure local industries meet stringent environmental standards.

Policy DA-5.1 Promote this intersection as a major employment center for the City.

- Support 4-5 story structures in the area.
- Consider office and lodging as the primary land uses.
- Promote high quality design and building materials.



Interstate 80 and 7200 West Gateway to Salt Lake City

EXPAND THE REGION'S ECONOMIC BASE BY SUPPORTING BUSINESS RECRUITMENT, DEVELOPMENT AND JOB CREATION.

Plan Salt Lake initiatives supported by this action:

Economy

- Strengthen our role as an economic, social and commerce center.
- Support quality jobs.
- Maintain the City's competitive economic edge.
- Support entrepreneurship and innovation.

Policy DA-6.1. Recruit new business enterprise that would bring higher wage jobs to the Northwest Quadrant.

- Encourage employers to expand, establish, or relocate to the area to increase its long-term economic sustainability.
- Work with economic development partners to market developable lands in the Northwest Quadrant to low impact industrial, manufacturing and high tech companies.
- Support ongoing efforts to encourage business development with programs that include management training, employee training, mentorships, and similar programs.

GOAL 07 PROMOTE ECONOMIC VIABILITY AND EQUITY

Plan Salt Lake initiatives supported by this action:

Economy

- Encourage a resilient and diversified economy. **Government**
 - Maintain and enhance City infrastructure in a way that is equitable and fair.
- Collaborate to set short- and long-term priorities and invest accordingly.

Policy DA-7.1. Recognize the unique opportunity to promote economically sustainable development through public/private partnership.

- Seek opportunities for innovative funding and financing opportunities for economic development.
- Undertake formal review of impact fees applicable to the Northwest Quadrant to comply with legal constraints and to fairly allocate the costs of implementing this Plan and providing necessary PLNPCM2009-00168

services within the Northwest Quadrant.

• Explore equitable and creative allocations of the costs of implementing this Plan among all stakeholders.

DEVELOP AN ECO-INDUSTRIAL PARK DEVELOPMENT STRATEGY FOR THE AREA NORTH OF I-80

Plan Salt Lake initiatives supported by this action:

Air Quality

- Support and promote renewable energy sources.
- Encourage energy efficiency citywide
- Ensure local industries meet stringent environmental standards **Economy**
 - Encourage a resilient and diversified economy.

Policy DA-8.1. Establish a public-private partnership to realize the full economic potential of the area.

• Utilize appropriate economic development tools to support infrastructure needs, business recruitment and retainment, and to build relationships between businesses.

• Consider an economic development checklist that is aimed at meeting ecological objectives to qualify for economic incentives.

• Find ways that the existing agricultural economy can benefit from industrial uses instead of being displaced by new development.

Policy DA-8.2 Seek out companies that can benefit from reusing by-products produced from other businesses in the vicinity.

Policy DA-8.3 Streamline the development process and provide appropriate incentives for developing and locating businesses in the eco-industrial park.

Policy DA-8.4 Ensure that a local supply market exists that can provide materials, parts and components, energy, customers and employees.

Policy DA-8.5 Review development regulations to make sure the mix of permitted uses contribute to a by-product exchange.

Policy DA-8.6 Provide incentives for development that utilize on-site renewable energy sources, such as solar,

PLNPCM2009-00168 4.4 Northwest Quadrant Master Plan wind, biomass and low-impact hydro or geothermal energy.

- Consider a shared heating and power generation system for the area.
- Allow solar farms and panels as principal uses and on the rooftops of buildings, over parking areas.

Policy DA-8.7 Require geotechnical studies, wetland mapping and other studies necessary to identify all natural hazards prior to development.

What is an Eco-Industrial Park?

An Eco-Industrial park is a collection of manufacturing, industrial, office, and support businesses located in close proximity to one another for mutual benefits while also limiting the environmental impacts. The goals of an eco-industrial park include reducing environmental imapact, economic prosperity through the creation of a circular economy, and a net positive social impact. These goals are accomplished by:

- A physical layout and development pattern that avoids sensitive lands, such as wildlife habitat and waterways;
- A reduction in greenhouse gas emissions through the use of freight rail, better building design, and utilizing byproducts from local sources;
- On-site renewable energy production, energy-efficient design, and utilizing heat sources created by industrial processes;
- Creating effective and efficient material flows by maximizing re-use and recylcing of materials and establishing resource exchanges and recycling networks;
- Appropriate waste management aimed at re-use, recycling and pollution prevention;
- Utilizing locally-sourced and recycled building materials as much as possible.

In the Northwest Quadrant, an eco-industrial park concept makes sense to achieve the goals of this master plan. An eco-industrial park is more than just a land use plan. It requires a strong economic development commitment at the local, regional and state level.

Zoning for an eco industrial park may include a new zoning district that focuses less and land use and more on development characteristics that generally comply with the concepts and policies of this master plan. In some instances, some land may be more appropriately zoned to be consistent with the International Center. Whatever approch is taken, future zoning should balance the goals of this plan and recognize that some areas may require different zoning regulations than other areas.

GOAL 08 ENCOURAGE THE DEVELOPMENT OF RENEWABLE ENERGY

Plan Salt Lake initiatives supported by this action:

Air Quality

- Support and promote renewable energy sources.
- Encourage energy efficiency citywide

Policy GD-3.1. Provide incentives for development that utilize on-site renewable energy sources, such as solar, wind, biomass and low-impact hydro or geothermal energy.

• Allow solar farms and panels in buildable areas, as principal uses and accessory uses.

Transportation

City Planning Context

The transportation network links the Northwest Quadrant to the rest of the City, region and state. The local network connects one of the largest economic development opportunities along the Wasatch Front to the regional and intestate networks. It allows us to access the natural environment. The transportation network is the lifeblood of the Northwest Quadrant.

Plan Salt Lake recognizes the importance of all modes of travel in the City. Some needs and functions of the City require certain types of transportation. For example, industrial development often relies on both heavy rail lines and airports to deliver freight and other goods. They also require roads capable of handling large trucks and easy access to the Interstates.

A transportation and mobility network that is safe, accessible, reliable, affordable and sustainable, providing real choices and connecting people with places. Plan Salt Lake Transportation and Mobility Guiding Principle

While the city-wide initiatives are primarily aimed at reducing the use of the automobile, *Plan Salt Lake* recognizes the importance of the airport as a regional and international amenity, including freight.

Other citywide plans, such as the Transportation Plan and other regional plans also influence the future of the Northwest Quadrant. Implementing those plans help the area's transportation network contribute to the overall success of the Northwest Quadrant, the City, and the region.

Access

The Northwest Quadrant is the best connected location in the State for manufacturing and industrial development with direct access to the Salt Lake International Airport, I-80, I-215, heavy rail lines and in close proximity to I-15. The area has room for new development to continue as a major job center for the City, region and State. The availability of land and the access to multiple transportation modes make it an attractive location.

Future transportation improvements will provide multiple options for people to reach the employment centers. As a critical mass of jobs is developed in the area north of I-80, the Airport Light Rail should be extended to provide transit options for employees. This allows the development of a transit-oriented employment center at key nodes, such as the International Center and 7200 West/I-80 interchange.

The development of the Mountain View Corridor improves the connectivity to the western side of the Salt Lake Valley. The Mountain View Corridor is intended to include a transit spine as well as connections to a regional trail that runs within the corridor.

Complementing convenient regional access from I-80 is a road system designed for industrial and manufacturing uses that can handle a variety of vehicles, including large trucks. On and off-street bike and pedestrian trails are located within appropriate arterials and would connect to regional trails located in the area.

Easy access to other modes of transit could reduce automobile trips to and from the area. This is critical due to no housing being located in the Northwest Quadrant and the nature of the area. Support services, such as restaurants, are necessary in the area to reduce the need for the employees to drive long distances. A complete network of trails and bike lanes allows people to move within the area by means other than a car.

The ability to ship and receive goods is critical. The Northwest Quadrant is better served than any other parts of the City for freight access. The proximity to Salt Lake International Airport, the existing Interstates, planned regional road networks, the Union Pacific main line, the short line railroad network and the intermodal rail transfer facility make the area's transportation network an attractive amenity to a variety of industries.

New streets will be constructed as development occurs. There are two key streets that have to be extended for the area north of I-80 to be developed: 7200 West and John Cannon Way (860 North). 7200 West is going to be the primary access into the area due to the interchange with I-80. John Cannon Way runs east and west and would connect the International Center to the future development area to the west. Both streets should be designed to avoid sensitive areas that are identified in this plan. New development should occur first along the future courses of these two streets, leaving space for local surface roads in a grid layout that is modified to move around sensitive lands. Cul-de-sacs should be avoided unless they are used as an end point to a road that would otherwise lead to a natural area or into a conservation development area.

Transportation Goals:

- Create a multi-modal transportation network.
- Promote the design of transportation corridors that support the natural landscape
- Design roads to support the land uses in the area.
- Support the expansion of short line railways through the area.
- Utilize 7200 West as the main road into the area north of I-80 and connect to the streets in the International Center.

MOVING FORWARD > > >

This section of the plan is intended to provide guidance for transportation related decisions in the Northwest Quadrant. It is important to identify key guiding principles and policies that will help provide direction and aid in the decision making process. Each guiding principle is aimed at addressing the initiatives and direction identified in Plan Salt Lake and other applicable adopted master plans of the City. These Guiding Principles, Initiatives and Policies apply to existing and future infrastructure improvements, new development and other changes to the transportation network in the area.

GOAL 01

CREATE A MULTI-MODAL TRANSPORTATION NETWORK

Plan Salt Lake initiatives supported by this action:

Transportation and Mobility

- Create a complete circulation network and ensure convenient and equitable access to a variety of transportation options by:
 - Expanding pedestrian and bicycle networks and facilities in all areas of the City.
 - Enhancing the regional transportation network.
- Make walking and cycling viable, safe and convenient transportation options in all areas of the City.
- Collaborate with regional partners to relieve congestion and enhance rights-of-way for alternative modes of transportation.

Policy T-1.1. Provide a network of streets based on a roadway typology that accounts for multi-modal travel, including large trucks, transit, automobiles, bicycles and pedestrians.

- Plan roadways on a grid or modified grid system to ensure distribution of automobile trips, while respecting the natural landscape and visual quality of the area.
- Ensure freeway access to the Northwest Quadrant with interchanges from I-80 by working with UDOT, WFRC and others to ensure long term planning, funding and construction of streets.
- Extend existing roads to provide multiple access points to new development.

- Develop an equitable and fair system to pay for the construction of roads. Work with funding partners to adequately fund roads.
- Scale roadways to best serve the adjacent land uses while respecting the natural landscape and visual quality of the area.

Policy T-1.2. Incorporate sidewalks within streets and trails or paths in Greenways.

- Ensure sidewalks are separated from vehicle travel lanes with landscaping.
- Ensure all sidewalks are ADA compliant.

Policy T-1.3 Develop a system of bicycle lanes and trails.

- Connect the Northwest Quadrant to the rest of the City as suggested in the Pedestrian and Bicycle Master Plan.
- Develop off-street bikeways to connect development nodes. Off-street bikeways should be designed to accommodate both higher speed cycling (commuting) as well as recreational uses.
- Complete the proposed bikeway between the International Center and Saltair to provide regional bike access to the Northwest Quadrant.
- Develop on-street bikeways to connect development nodes where off-street connections do not exist with a safety first approach.
- Consider branding throughout the bicycle network with special signs and wayfinding to increase visibility of the system and ease of use.
- Provide bicycle facilities for regional travel, including bicycle lockers, racks, and shelters.

Policy T-1.4. Connect the Northwest Quadrant with a public transit network to provide transportation choices.

- Work with property owners, UTA, UDOT, and WFRC to preserve a corridor for future transit to connect to the Airport Trax line and future transit that may be located on or near the Mountain View Corridor.
- Extend the Airport Light Rail incrementally west as a critical mass of jobs are located along I-80.
- Coordinate local and regional transit service to provide seamless transfers between nodes.
- Provide covered and partially enclosed shelters with seating and lighting at each transit stop.
- Provide kiosks, bulletin boards, and/or signs devoted to providing local transit information, including basic schedule and route information at each transit stop.

Encourage major employers to work with UTA to provide transit service (with vans, shuttles, buses) to rail or other major transit facilities and/or another major destination, such as an employment center.

Link phasing of infrastucture with development to ensure critical employment levels to enable a successful transit system.

Policy T-1.5. Create and implement a comprehensive transportation demand management (TDM) program aimed at reducing weekday peak period trips.

- Reduce vehicle trips, overall miles traveled, traffic congestion, air pollution, and greenhouse gas emissions through creative design, pedestrian amenities, and the provision of transit.
- Reduce energy consumption and pollution from private automobiles by encouraging less use of motor vehicles

PROMOTE THE DESIGN OF TRANSPORTATION CORRIDORS THAT SUPPORT THE NATURAL LANDSCAPE

Plan Salt Lake initiatives supported by this action:

Transportation and Mobility

- Incorporate green infrastructure into our rights-of-way and transportation network. **Beautiful City**
- Reinforce the development of a connected green network of urban open spaces and forest that accommodates active transportation and provides contact with nature.

Policy T-2.1. Transportation corridors should be designed to minimize impacts to natural drainage areas.

- Avoid constructing roads through natural drainage areas.
- Adequately design roads to direct stormwater to appropriately designed basins.

Policy T-2.2. Use native and natural landscaping materials within transportation corridor rights of way.

Policy T-2.3 Use appropriate but minimal levels of lighting to keep sites darker near Natural Areas.

- Direct lights down and away from natural habitats.
- Avoid tall street lights that may negatively impact wildlife habitat.
- Use the minimum number of street lights necessary for safety.
- Along trails, use lights that only light the trail and not wildlife habitat.

GOAL 3 DESIGN ROADS TO SUPPORT THE LAND USES IN THE AREA

Plan Salt Lake initiatives supported by this action:

- **Transportation and Mobility**
 - Incorporate green infrastructure into our rights-of-way and transportation network.

Policy T-3.1. Modify the cross section of roads to allow for the integration of transit, land use, and other multi-modal options.

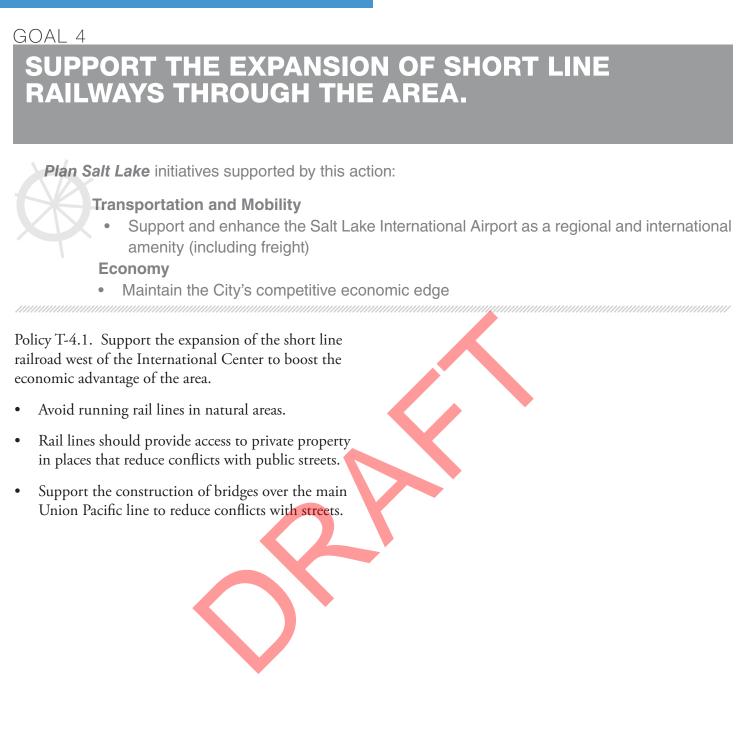
Policy T-3.2. Create cross sections of roads and construction details that can handle large truck traffic with little maintenance for the first 10 years.

Policy T-3.3 Utilize flexible building setbacks to allow natural landscape features to be used for required landscaping.

Policy T-3.4 North of I-80, extend 7200 West as the primary access point to I-180 and connect secondary access to John Cannon Way in the International Center.

- Each street should be designed as arterials capable of supporting large, heavy vehicles and to a standard that ensures the street will be free from major repairs for at least 10 years.
- Local cross streets should be located no further than 2,000 feet from the next cross street.
- All new streets should be constructed in a way that allows them to be extended until they reach a natural area.
- Local streets should be designed on a grid system that allows for continuation of the streets as development occurs. The grid system should be modified to avoid running through Natural Areas and Greenways.
- Cul-de-sacs should be used to terminate all streets at the border of natural areas.







Public Services

Public Services includes all of the services that the City and other public entities provide. This includes public safety, street maintenance, utility service, telecommunications, etc. Regardless of land use, all areas of the City require some level of public service.

It is important that public services are provided in a way that supports the guiding principles and policies of the Northwest Quadrant Master Plan. This ranges from environmental protection and conservation to equitable access to the digital world.

Plan Salt Lake supports providing public services in an efficient and effective manner. This requires long term commitment to our infrastructure and protecting our natural lands.

A local government that is collaborative, responsive, and

transparent. Plan Salt Lake Government Guiding Principle

manner that is equitable and fair.

Some areas of the Northwest Quadrant have more sensitive natural environments than others. Great care must be practiced to protect the natural environment, while allowing other areas to develop and help sustain the City's economy.

In order for the area to develop appropriately, new infrastructure is required. This infrastructure includes streets, rail lines, high speed telecommunications and utilities. It is important that the area develop in a phased approach and the utilities built to accommodate future demand in an incremental approach, preferably from east to west. Infrastructure may be the biggest deterrent to economic development in the area. Figuring out how to pay for new infrastructure, the long term maintenance of the infrastructure, and preserving future utility corridors is critical to the success of the area.

There are many plans that guide providing public services. The Northwest Quadrant Master Plan supports allowing service providers to provide these services in a

MOVING FORWARD > > >

Public Services are a key ingredient for the Northwest Quadrant to develop. Each guiding principle is aimed at addressing the initiatives and direction identified in Plan Salt Lake and other applicable adopted master plans of the City. These Guiding Principles, Initiatives and Policies are intended to help in the decision making process regarding how to fund, deploy, carry out and maintain public services in the area.

GOAL 1

CREATE RELIABLE, COST-EFFECTIVE, ENVIRONMENTALLY SUSTAINABLE SYSTEMS OF UTILITIES, PUBLIC FACILITIES AND SERVICES

Plan Salt Lake initiatives supported by this action:

Air Quality

- Encourage energy efficiency citywide
 Equity
 - Ensure access to all City amenities and services
 - Support neighborhood identity and diversity

Policy PS-1.1. Encourage use of native, adaptive, and drought-tolerant landscaping in public facilities and service corridors.

Policy PS-1.2. Design public service facilities with shared public access and stormwater use when appropriate.

Policy PS-1.3. Minimize public service costs in appropriate ways.

Policy PS-1.4. Reduce public costs for stormwater management, flood control, and other forms of built infrastructure by incorporating an efficient stormwater management system that emphasizes green technologies, low impact development, and best management practices.

Policy PS-1.5. Collaborate with adjacent townships and cities, various federal, state, and county agencies, and appropriate service providers to provide coordinated and sustainable development of the region.

Policy PS-1.6 Develop a public services utility plan that anticipates future needs and mechanisms for funding infrastructure.

• Ensure that the overall location and site design of utility systems including power generation substations and solar farms are consistent with goals and principles of this plan and minimize impacts and disturbance to natural resources.

Policy PS-1.7. Mitigate mosquitoes and invasive species

• Seek to utilize mosquito abatement technologies that reduce impacts on natural systems and wildlife.

Policy GD-6.8 Support the extension of the useful life of the active landfills in the area.

- Support the vertical growth of the current landfill to avoid using more land and shipping of waste to other facilities.
- Develop a plan for the future use of the active landfill.

GOAL 2 DEVELOP A PUBLIC SAFETY PLAN FOR EMERGENCY ACCESS AND TRAVEL

Plan Salt Lake initiatives supported by this action:

Government

- Protect people and infrastructure from crimes and natural hazards
- Maintain a safe and healthy natural and human environment
- Be prepared for severe disasters

Policy PS-2.1. Plan for police, fire, and emergency services that are staffed at appropriate levels, creating a sense of security and a high level of protection for the Northwest Quadrant.

GOAL 3

PROVIDE A COMMON NORTHWEST QUADRANT DESIGN THEME FOR THE PUBLIC INFRASTRUCTURE, SUCH AS NATIVE LANDSCAPING, LIGHTING, BRIDGE DESIGN, SIGNS, ETC

Plan Salt Lake initiatives supported by this action:

Beautiful City

· Identify and establish standards for key gateways into the City

Policy PS-3.1. North of I-80, infrastructure should be designed to look like it is part of the natural environment.

- Bridges should contain elements that fit with the natural setting and allow passers-by to see into natural areas.
- Storm water retention basins should use native plant species.
- Street signs should provide clear identification and

- be designed to fit in with the natural environment.
- Street lighting should use poles and fixtures that are compatible with the natural environment.

Policy PS-3.2. Build infrastructure to minimize impacts on wildlife and natural systems, such as natural stormwater retention and dispersion, underground power lines and wildlife crossings under roads where appropriate.

04 Development Guidelines

The following development guidelines should be considered for new developments in the area north of I-80. The guidelines should be used to help inform planning and development decisions that impact the area. The guidelines are intended to support the implementation of the goals and policies found in this plan. They may be used to inform future development standards and assist in project review.

LANDSCAPING

STORM WATER

Encourage green space conservation and better water efficiency and protection.

- Encourage the use of recycled wastewater or recycled gray water for irrigation uses.
- Encourage high efficiency irrigation systems.
- Explore opportunities to construct a secondary water system (purple pipe system) for irrigation purposes using a secondary water source.
- Enforce responsive and efficient irrigation system management.

Encourage environmentally-friendly landscaping and irrigation practices that are responsive to the climate and soil conditions of the area and that are more resilient to periods of drought.

- Use appropriate landscaping for the area that does not require extensive modifications to the native soils.
- Use native, adaptive, and drought/salt-tolerant vegetation for landscaping.
- Minimize irrigated landscape areas and utilize naturalized swales.
- Encourage maintenance of native soils and native landscaping in large public areas.
- Seek to avoid the use of pesticides, herbicides and fertilizers that impact wildlife and water quality, and use sustainable management techniques.
- Reduce heat islands to minimize impact on microclimate and human and wildlife habitat through the following mechanisms where feasible:
 - Shade hardscape.
 - Use light-colored roofing.
 - Install vegetated roofs, i.e., green roofs.
 - Use light-colored paving materials.
 - Minimize the size of parking lots.

Encourage stormwater management that infiltrates, reuses, or evaporates or transpires rainfall, decreasing runoff volume.

Implement stormwater management infrastructure on local levels to minimize the size of large-scale collective detention and retention basins.

Incorporate greenways throughout new developments to serve as multipurpose corridors.

- Incorporate appropriate recreation areas, stormwater management, and detention and utility infrastructure corridors within greenway systems.
- Utilize small stormwater detention areas as open space.

Use detention and drainage areas to intercept and filter stormwater.

Use water reuse systems to maximize water efficiency in the community and to decrease the size of supply and conveyance infrastructure.

Utilize bioswales in place of traditional curb and gutter systems to manage surface runoff.

AIR QUALITY

Encourage the use of sealants, finishes, paints, and flooring that have zero or low volatile organic compound (VOC) content.

Utilize the highest standard emission control systems for manufacturing uses.

ENERGY EFFICIENCY

Encourage the incorporation of energy reduction strategies:

- Orient buildings parallel to or within 15° of the east-west axis.
- Use natural ventilation in buildings.
- Use natural lighting in buildings.
- Use high efficiency lighting control systems.
- Use high efficiency thermal control systems.

Encourage the use of recycled, salvaged, rapidly renewable, and locally produced materials.

BIRD SAFE BUILDING DESIGN

Locate and orient new buildings to reduce their impact on wildlife habitat.

Incorporate bird safe design into new buildings

- Limit the amount of glass used on buildings. Avoid large expanses of glass facing natural areas.
- When glass is used to provide natural day light and required by building codes, utilize glass that reduces transparency and reflectivity.
- Consider the use of facade treatments to screen glass.
- Avoid up-lighting of buildings and spotlights.
- Reduce unnecessary interior lighting during nighttime hours.
- Consider locating trees and taller shrubs within 3 feet of the building or far enough away to avoid tree canopies being reflected in the glass.

RECYCLING

Incorporate recycling into new developments.

- Encourage builders to divert significant amounts of their waste (>50 percent) away from landfills through reuse or recycling.
- Support the reuse of waste materials generated in manufacturing and industrial processes.