

# **Providence City**

## **Revised Storm Water Management Plan**

**Small MS4**

**General Permit**

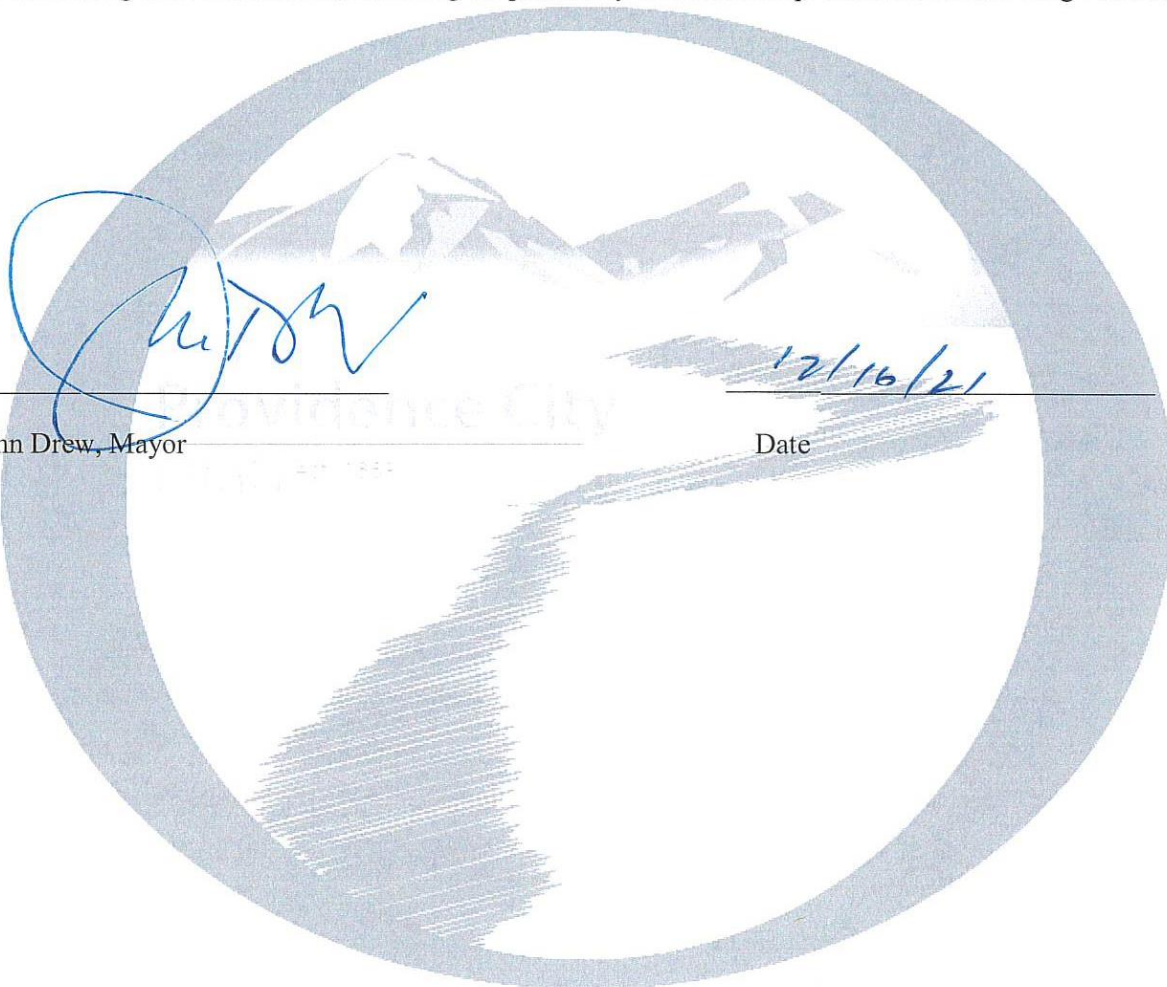
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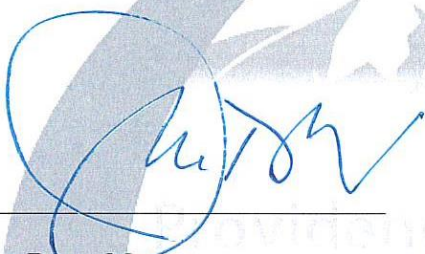
**Revised: 12/15/2021**

Annual Review of Providence City SWMP Document

| Date | Signature | Amendments |
|------|-----------|------------|
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|      |           |            |
|      |           |            |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

The seal of the City of Providence is a large, light blue circular emblem. It features a stylized landscape with a winding river in the foreground, a bridge in the middle ground, and a mountain range in the background. The words "Providence City" are faintly visible across the middle of the seal.

A handwritten signature in blue ink, appearing to read "John Drew", is written over the signature line.  
\_\_\_\_\_  
John Drew, Mayor

12/16/21  
\_\_\_\_\_  
Date

## Providence City

|                         |  |
|-------------------------|--|
| Population:             | Estimated 8,234 – 2020 US Census estimates.  |
| Size:                   | 3.784 square miles   |
| Geographic Description: | Located on the east side of Cache Valley on the south border of Logan City. Elevation 4590 ft. (taken at City Office)  |
| Receiving Waters:       | The storm water in Providence City currently drains into Spring Creek and the Blacksmith Fork River, which ultimately drain into the Logan River.  |
| Annual Precipitation:   | 18 inches  |
| Type of Community:      | A small rural city with moderate rates of residential growth that are expected to continue for many years, specifically on the east benches.   |
| Latitude:               | 41° 42' 28.85" N (taken at Center and Main)  |
| Longitude:              | 111° 49' 04.07" W (taken at Center and Main)   |
| Storm Drain System:     | The Providence storm water system consists of curb and gutters, culverts, a few typical piped sections, swales and canals. The majority of the storm water facilities continue to drain into one of two irrigation canals; Spring Creek and Blacksmith Fork, both eventually drain in to the Logan River. The canals have served as the recipient for storm water flows since the City's establishment. Very few controls exist within the system. |

## Water Quality Concerns

The water quality within Providence City is relatively good. The storm water in Providence drains to a series of canals where it is eventually transported to Spring Creek and Blacksmith Fork River and eventually to Logan River. For the most part, the existing system has worked well. Continued growth is expected to put some pressure on canal, ditch and swale capacities. In the future it is anticipated that some infrastructure improvements may need to be made to deal with capacity issues. It is likely that these improvements will be made on an “as-needed” basis. There are no year round continuous flowing streams or lakes within the boundaries of Providence; however, because the storm water from the City does eventually go to the Logan River, which has been identified as protected under Section 303(d) of the Clean Water Act, Providence has a responsibility to minimize the adverse impacts it may have on the Logan River. The hope and intent of this Storm Water Management program (SWMP) is to maintain the good quality of the water flowing out of Providence and possibly even improve the current water quality.

Like most communities in the valley, the biggest water quality concerns involve:

- Sediment loads coming from disturbed sites and streets
- Fertilizers and pesticides coming from lawns and farmlands
- Oils and grease coming from the roadways

Providence City’s SWMP has been geared toward small city applications, targeting the pollutants mentioned. The focus of this plan is to do what we can within the community, trying to stay in harmony with the rural nature of the community and within the existing budget structure.

## Overall system priorities

Providence City’s first priority is to continue working on completing and following up on all deficiencies from last audit, and continue to implement the changes from those deficiencies in our daily operations.

We will also continue to send our RSI’s to training and to have any restricted RSI’s become unrestricted by completing the necessary requirements.

Updating our construction site storm water runoff control section of the program.

And finally, attending USWAC meetings on a regular basis.

## Measurable Goals and Milestones

### 1. Public Education and Outreach

Goal was to establish and participate in Inter-local storm water education/public participation program.

- Established and participating by participating in local water fair each year, and run radio ads on local radio stations.

Goal was to send letters to citizens (2) annually, display information on bulletin boards (2) annually and post information on the City website.

- Implemented but not to full extent

### 2. Public Participation and Involvement

Goal was to have a (1) community clean-up day annually, compile a list of available community projects that are available and conduct (2) steering committee meetings annually.

- Dumpsters for clean-up day
- Other goals implemented but not to full extent

### 3. Illicit Discharge Detection and Elimination

Goal was to review and pass “IDDE” ordinance.

- Done, ordinance 7.8.3 and 7.8.6 (08/28/07)

Goal was to set up reporting process and publish in newsletter.

- Established and implemented.

Goal was to post (2) signs.

- Done – Public education signs posted at facilities

Goal was to send (1) employee to County wide education program.

- Providence City routinely attends the Cache County Storm Water Coalition meetings and participates annually in the annual water fair.

### 4. Construction Site Run-off Control

Goal was to review and adapt erosion and sediment control ordinances.

- Ordinance 7.8 (08/28/07)

Goal was to establish guidelines and minimum requirements for sediment and erosion control plans.

- The Northern Cache Valley Storm Water Design standards was adopted in February 2015.

Goal was to establish written procedures for storm water inspections.

- Established and functioning by utilizing Compliance Go program for our inspections.

Goal was to inform contractors and developers of construction site run-off measures.

- Established by site control measures discussed are mandatory pre-construction meetings.

#### 5. Post Construction Run-off Control

Insure development maintains its storm water control measures.

- City does a series of required inspections, which include a final warranty inspection at the end of completed project & 1 year after dated completed inspection. Permanent erosion control should be implemented and stabilized.

Goal was to set up plan review procedures.

- Functioning – Review process consists of multiple consultants and city staff who submit their comments to the developer.

#### 6. Pollution Prevention/Good Housekeeping

Goal was to develop a street sweeping program.

- Streets with curb and gutter are swept annually

Goal was to develop a catch basin cleaning program.

- Catch basins (boxes) are cleaned annually

Goal was to develop a parking lot sweeping program.

- City owned parking lots are swept annually

Goal was to train employees.

- Employees are trained annually



## Public Education and Outreach on Storm Water Impacts

Objective: To promote behavior change by the public to reduce water quality impacts associated with pollutants in storm water runoff and illicit discharges.

The Providence City public education and outreach program is designed to use a multi media approach to reach the target audiences that are desired. These approaches include but are not limited to: Providence City website ([www.providencecity.com](http://www.providencecity.com)), monthly newsletters, mailers, local media and other educational arenas.

The following four (4) groups are the desired target audiences for this program;

1. Providence City residents
2. Businesses, institutions and commercial facilities
3. Developers and contractors (construction)
4. MS4 Industrial facilities

Providence City is an active member of the Cache Valley Storm Water Coalition. The coalition holds a storm water fair every spring and hundreds of 4<sup>th</sup> graders (9-10 years old) attend. Students learn about water conservation, back flow prevention, water shed protection and other water topics. We feel that students of the age are likely to take the information learned from the fair and go home and tell their parents and siblings about it, thus reaching a much larger audience. The Cache Valley Storm Water Coalition also implemented in 2021 radio ads that are played on the local stations. This helps to reach more people.

The Cache Valley Storm Water Coalition also provides continuing education for staff of participating agencies.

1. Information provided to the general public will consist of topics most relevant to the residents of Providence City.
2. Information provided to businesses, institutions (religious organizations) will focus on quality impacts associated with illicit discharges and improper disposal of waste. This program will focus on topics most relevant to the community.
3. Information provided to engineers, contractors, developers and staff will focus on development of Storm Water Pollution Prevention Plan (SWPPP), Best Management Practices (BMP's) Low Impact Development (LID) for reducing adverse impacts from storm water run-off from development sites.
4. Information provided to employees of Providence City will focus on water quality impacts associated with illicit discharges and improper disposal of waste.

Information provided to the specific target audiences will be documented and records kept.

This program chooses BMP's based on relevance and need to the community of Providence.



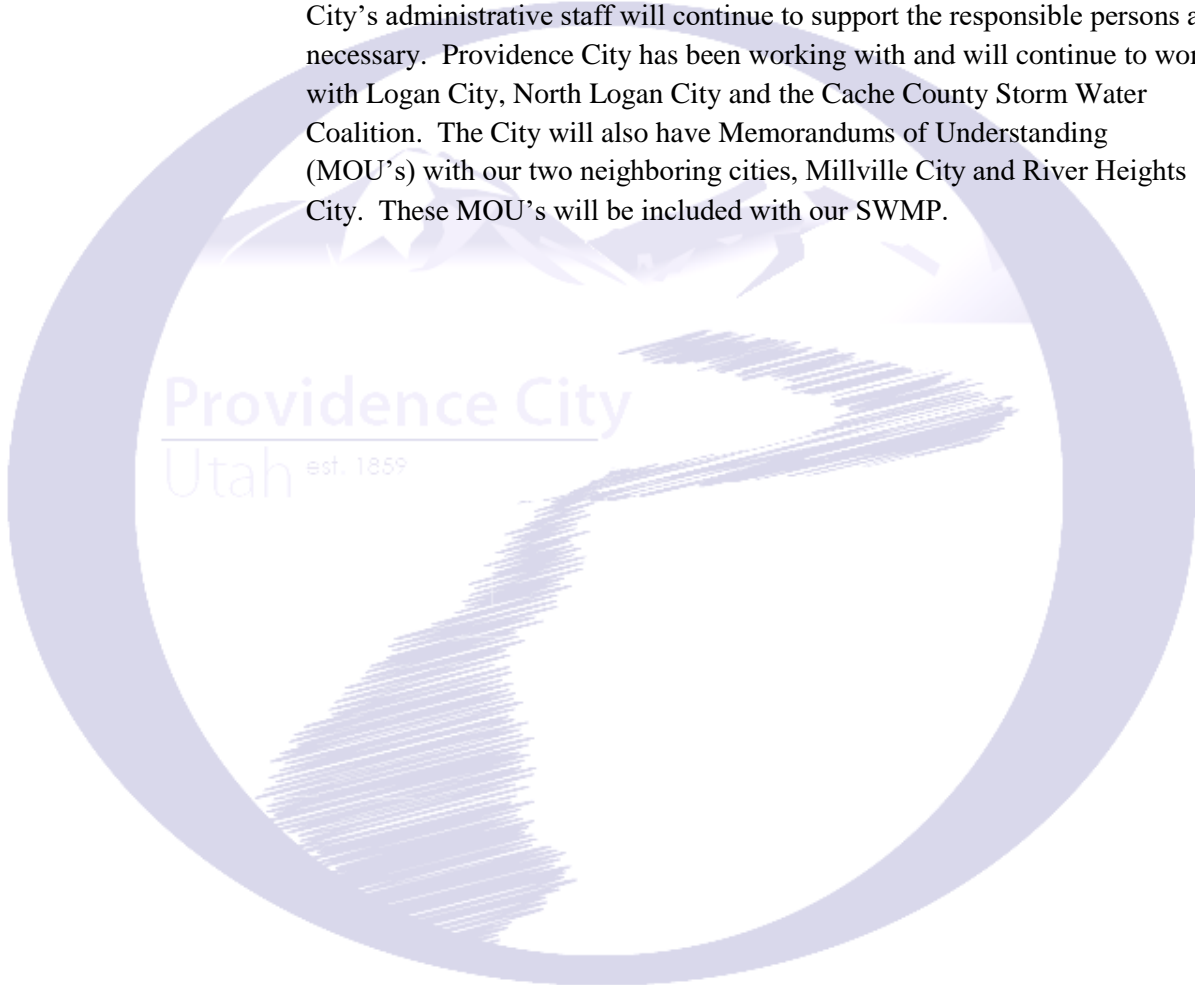
#### **4.0 Storm Water Management Program**

The City has been audited and is working towards completing all deficiencies and implementing those changes into our program. As per the previous permit, the City has implemented and is using the six minimum control measures. The City will continue to enforce our SWMP and work within the guidelines of our MS4 General Permit. For City code, see appendix.

#### **4.1 Requirements**

- 4.1.1. Continue to review and update our SWMP as necessary so that the City is able to continue reducing the discharge of pollutants from the MS4, protect water quality and satisfy the appropriate water quality requirements of the Utah Water Quality Act. Our SWMP does and will continue to include the six minimum control measures described in part 4.2 of this permit.
  - 4.1.1.1. The SWMP has been developed and Providence City will continue to implement the SWMP.
- 4.1.2. Providence City has an ongoing documentation process for gathering, maintaining and using information to conduct planning, set priorities, track the development and implementation of the SWMP, evaluate Permit compliance/non-compliance and evaluate the effectiveness of the SWMP implementation.
  - 4.1.2.1 Providence City will continue to track the number of inspections performed, official enforcement actions taken and types of public education activities implemented as required for each SWMP component. This information shall be provided to the Division upon request and used by the Division to determine compliance with this permit.
  - 4.1.2.2. Providence City has secured and will continue to evaluate the resources necessary to meet all requirements of this permit. The City does and will continue to conduct an annual analysis of the capital and operation and maintenance expenditures as needed, allocated and spent as well as the necessary staff resources needed and allocated to meet the requirements of this permit, including any development, implementation and enforcement activities required. The City will continue to submit a summary of our fiscal analysis with each annual report.
- 4.1.3. The SWMP document shall include BMP's that the permittee or another entity will implement for each of the storm water minimum control measures.

- 4.1.3.1. The measurable goals for each of the BMP's shall include, as appropriate, the months and years in which the permittee will undertake required actions, including interim milestones and the frequency of the actions.
- 4.1.3.2. The Public Works Director, Rob Stapley and our Storm Water Technician are the responsible persons for overseeing the SWMP requirements and are responsible for staff training.
- 4.1.3.3. The Public Works Director and our storm water technician will work with the City Engineer to ensure compliance with the storm water program. The City's administrative staff will continue to support the responsible persons as necessary. Providence City has been working with and will continue to work with Logan City, North Logan City and the Cache County Storm Water Coalition. The City will also have Memorandums of Understanding (MOU's) with our two neighboring cities, Millville City and River Heights City. These MOU's will be included with our SWMP.





**Providence City**  
**Public Works Department**  
15 South Main  
Providence, UT 84332  
(435) 753-0313 • Fax: (435) 753-2345

04.18.16

Memorandum of Understanding

As part of our compliance with section 4.1.3.3 of the Small MS4 General Permit, Providence City would like to work with both Millville City and River Heights City in a cooperative effort to enforce our respective SWMP's.

This will include notifying a neighboring city as to a potential problem(s) located within their city limits and also the education of contractors who may do work in any of the three cities.

Providence City feels like this will be an advantageous understanding between all three cities.

Thank you,

*Rob Stapley* 6.24.16

Rob Stapley  
Providence City  
Public Works Director

*Cheryl Kuhn*  
\_\_\_\_\_  
Millville City representative

*6/24/2016*  
\_\_\_\_\_  
Date

*Charles Nelson*  
\_\_\_\_\_  
River Heights City representative

*6/23/2016*  
\_\_\_\_\_  
Date

## Minimum Control Measures

### 4.2.1. Public Education and Outreach on Storm Water Impacts

The purpose of the Public Education and Outreach Program is to promote behavior change by the public to reduce water quality impacts associated with pollutants in storm water runoff and illicit discharges.

4.2.1.1. Specific pollutants and pollutant sources that Providence city has chosen in each four (4) target audiences are listed below;

- Providence City residents
- Businesses, institutions and commercial facilities
- Developers and contractors (construction)
- Providence City employees

4.2.1.2. 1. Providence City residents; this target audience will be educated in the topics of maintenance of septic systems, effects of outdoor activities such as lawn care (use of pesticides, herbicides and fertilizers) and proper management of pet waste.

4.2.1.3. 2. Businesses, institutions and commercial facilities; this target audience will be educated in the topics of illicit discharges and improper disposal of waste materials and dumpsters and proper management of parking lot surfaces.

4.2.1.4. 3. Developers and contractors; this target audience will be educated in the topics of the development of storm water pollutions prevention plans (SWPPP) and BMP's for reducing adverse impacts from storm water runoff from development sites. Information provided will be documented and records kept.

4.2.1.5. 4. Providence City employees will be educated in the topics and practices of illicit discharges and improper disposal of wastes, equipment inspection to ensure timely maintenance, proper management of dumpsters, minimization of use of salt and other de-icing materials and proper maintenance of parking lot surfaces. Information provided will be documented and records kept.

4.2.1.6. Providence City Staff (ESR) will be educated on the topics of low impact development (LID), green infrastructure practices, post construction control and associated best management practices (BMP's). Information provided will be documented and records kept.

- 4.2.1.7. Providence City will use the Providence City website ([www.providencacity.com](http://www.providencacity.com)), monthly newsletters, mailers, local media, social media and other available options. The City will evaluate each target audience to determine if the chosen media is effective.
- 4.2.1.8. The above mentioned best management practices (BMP's) were chosen to be most warranted for the community of Providence, using ages and demographics of our citizens.



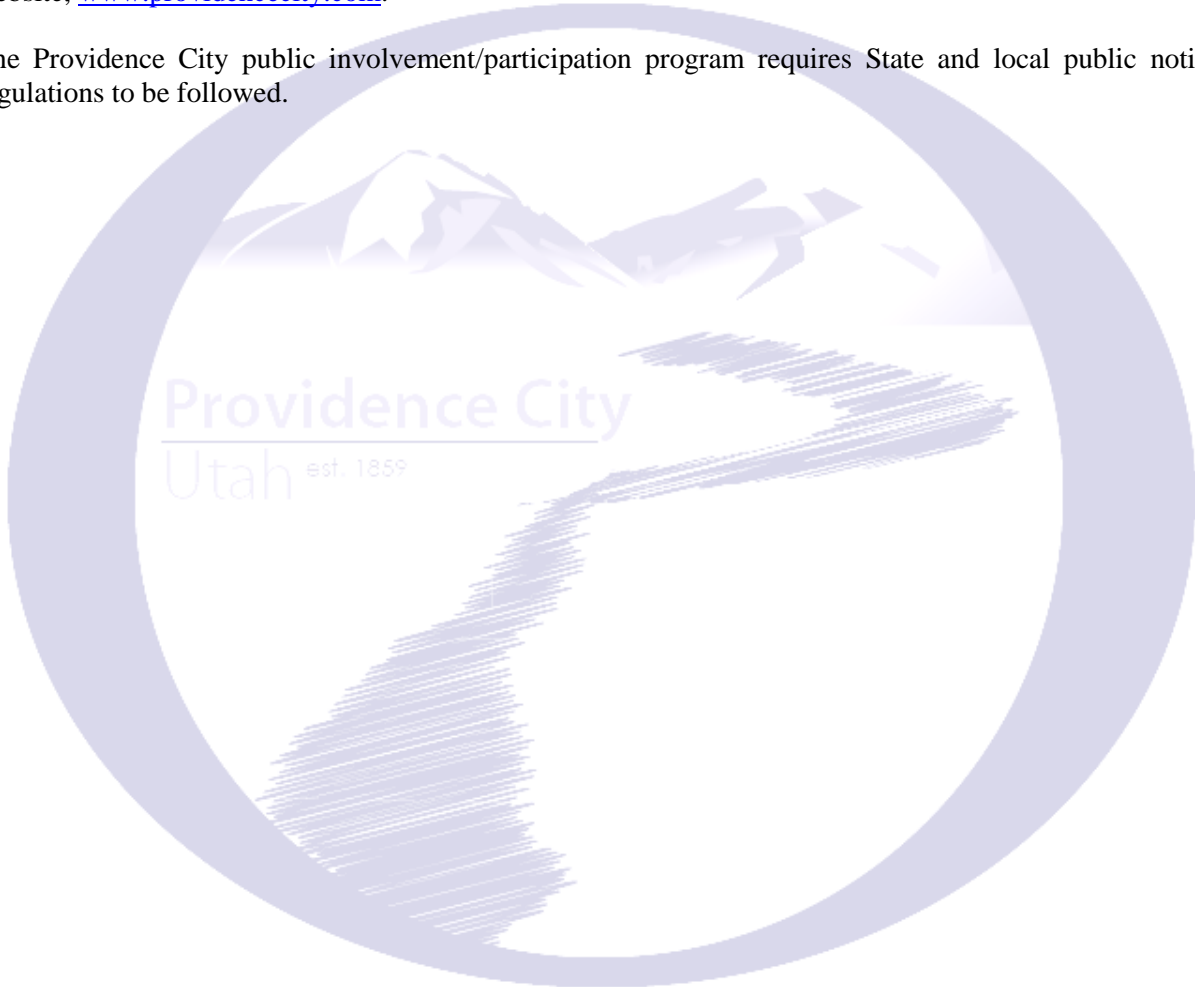
## Public Involvement/Participation Program

Objective: To provide ongoing opportunities for public involvement and participation within Providence City and our ongoing storm water program.

Providence City recognizes the value of citizen input to the development, implementation and update of our current storm water management plan (SWMP) and associated ordinances.

A current version of the Providence City Storm Water Management Plan is available for public review and input for the life of the permit. The latest version of this document is also posted on the Providence City website, [www.providencecity.com](http://www.providencecity.com).

The Providence City public involvement/participation program requires State and local public notice regulations to be followed.



## Illicit Discharge Detection and Elimination Program (IDDE)

Objective: To provide a systematic process to find and eliminate sources of non-storm water discharges from Providence City Municipal Separate Storm Sewer System (MS4) and to implement defined procedures (SOP's) to help employees identify, investigate, terminate, clean up and report illicit discharges; including spills, improper disposal and to prevent illicit connections to the system.

Providence City has and maintains a current storm sewer system map of our MS4. This map shows locations of all municipal storm sewer outfalls with the names and location of all State waters that receive discharges from said outfalls, storm drain pipes and other storm water conveyance structures within the MS4.

Providence City has a storm water ordinance (7-8-6, 7 & 8) that provides rules, regulations and penalties that govern illicit discharges within the boundaries of the City.

Current City ordinance 8-4-12 provides this program with the legal authority to detect, investigate, eliminate and enforce against non-storm water discharges, including illegal dumping. This authority is vested to the Public Works Director or his assigns (4-2-3-2-1).

### Minimum Control Measures

#### **4.2.3. Illicit Discharge Detection and Elimination (IDDE)**

The purpose of the IDDE program is to systematically find and eliminate sources of non-storm water discharges from the MS4 and to implement defined procedures (SOP's) to prevent illicit connections and discharges.

4.2.3.1. Providence City has and maintains a current storm sewer system map of the MS4; which includes all storm sewer outfalls with the names and location of all State waters that receive discharges from these outfalls, storm drain pipes and other storm water conveyance structures within the City.

4.2.3.2. Providence City municipal code 7.8.6 prohibits non-storm water discharges to the MS4, including spills, illicit connections, illegal dumping and sanitary sewer overflows (SSO's) into the storm sewer system. Escalating enforcement options can be found in Providence City code 7.8.7 and 7.8.8.

Non storm-water discharges which are allowed by current state permit #UTR 090000 are listed below. These discharges are allowed, provided they do not cause or contribute to a violation of water quality standards.



- Water line flushing
- Landscape irrigation
- Diverted stream flows
- Rising ground waters
- Uncontaminated ground water infiltration
- Uncontaminated pumped ground water
- Discharges from potable water sources
- Foundation drains
- Air conditioning condensate
- Irrigation water
- Springs
- Water from crawl space pumps
- Footing drains
- Lawn watering runoff
- Individual residential car washing
- Flows from riparian habitats and wetlands
- Dechlorinated swimming pool discharges
- Residual street wash water
- Dechlorinated water reservoir discharges
- Discharges or flows from firefighting activity

4.2.3.2.1. Authorization to detect, investigate, eliminate and enforce against non-storm water discharges, including illegal dumping can be found in Providence City municipal code 7.8.7.

4.2.3.3. Found in Providence City storm water SOP's.

4.2.3.3.1. Providence city is required to make a list of “priority areas” that are likely to have illicit discharges. State permit #UTR 090000 lists the following criteria for designating a priority area.

- Areas with older infrastructure that are more likely to have illicit connections;
- Industrial, commercial or mixed use areas;
- Areas with a history of past illicit discharges;
- Areas with a history of illegal dumping;
- Areas with onsite sewage disposal systems;
- Areas with older sewer lines or with a history of sewer overflows or cross-connections; and
- Areas upstream of sensitive waterbodies.

Providence City has designated the following areas as “priority areas” within the MS4;

- All area west of Gateway Drive from Golf Course Road on the north to 300 South on the south (this area was chosen because of the commercial, industrial and mixed use zoning of the area).
- The sanitary sewer system in Providence City was installed in 1990. Due to the age of the system, Providence City will perform visual imaging of the system and when the system shows signs of deterioration due to age or any other reason, these areas will be considered to be added to the “priority area”.
- Any area with a history of confirmed illicit discharge incidents will be considered to have higher illicit discharge potential.

This “priority area” list will be reviewed and updated with the annual review of the SWMP.

- 4.2.3.3.2 Providence City personnel will conduct dry weather screening in conjunction with checking for illicit discharges on all identified outfalls which discharge to waters of the State on an annual basis. Providence City will also visually assess 20% of the “priority areas” identified in permit section 4.2.3.3.1. For the purpose of detecting illicit discharges, an inspection form will be utilized to document these visual inspections.
- 4.2.3.4. Standard Operating Procedures for tracing the source of an illicit discharge can be found in the Providence City storm water SOP manual under the illicit discharge section.
- 4.2.3.5. Standard Operating Procedures for characterizing the nature of, and the potential public or environmental threat posed by illicit discharges found by or reported to Providence City employees can be found in the Providence City Storm Water SOP manual under the illicit discharge section.
- 4.2.3.5.1. When the source of a non-storm water discharge is identified, Providence City employees will document the findings using the “IDDE inspection and incident log”.
- 4.2.3.6. Standard Operating Procedures for ceasing an illicit discharge, including notification of appropriate authorities and property owners involved can be found in the Providence City Storm Water SOP manual under the illicit discharge section.
- 4.2.3.6.1. All illicit discharge documentation will be contained in Providence City’s current SWMP.

- 4.2.3.7. Providence City provides annual training to employees concerning the IDDE program. Providence City provides illicit discharge information to the citizens of Providence through print media in the City newsletters which are sent to each resident. Businesses located in Providence City receive occasional print media concerning illicit discharges and improper disposal of waste.
- 4.2.3.8. Providence City promotes the responsible collection and disposal of unused, outdated and unwanted household hazardous waste. The City of Logan annually coordinates a household hazardous waste collection event; Providence City advertises this event on its City website, [www.providencecity.com](http://www.providencecity.com) and encourages those citizens who need this service to participate.
- 4.2.3.9. Providence City provides and maintains a telephone hotline which provides an avenue for both citizens and non-citizens alike to report observed or possible illicit discharges to the MS4. A written record will be kept of all calls received and follow up taken and any feedback received from public education efforts.
- 4.2.3.9.1. Providence City has developed a written spill/dumping response procedure (SOP) and flow chart for internal use which shows the procedures for responding to public referrals of illicit discharges, the various responsible agencies and their contacts, and who would be involved in an illicit discharge incident response. The procedure (SOP) and list is incorporated as a part of the IDDE program and is contained in Providence City's current SWMP document. This list will be maintained and updated as changes occur.
- 4.2.3.10. Providence City will annually review and evaluate the IDDE program, specific attention will be given to the number and type of spills or illicit discharges that have been reported, identified and investigated. The mapping that has been generated during the year will be evaluated and specific locations for potential IDDE activity will be discussed.
- 4.2.3.11. Providence City will at a minimum, train employees about the IDDE program including; identification, investigation, termination, improper disposal and illicit connections.

## Plan to Detect and Address Non-Storm Water Discharges

Providence City is committed to the detection, investigation and elimination of non-storm water discharges into the MS4.

The following priority areas are listed in order of concern and will be treated and addressed in such order;

- Area's with older infrastructure that are more likely to have illicit connections.
- Area's upstream of sensitive water bodies.
- Area's with onsite sewage disposal systems.
- Industrial, commercial or mixed use areas.

Providence City will participate in field assessment for the purpose of verifying outfall locations and detecting illicit discharges. The previous priority areas will be used in determining the areas of focus. A field assessment from shall be used to document these activities and the subsequent findings.

Whether performing field assessments or responding to a report of a possible illicit discharge, the following procedures should be used.

- A visual inspection of the reported site will be conducted by authorized personnel in a timely manner. Inspections resulting in finding an illicit discharge will be photographed and written documentation taken. If an illicit discharge is found, it should be immediately evaluated and steps should be taken to contain the discharge.

The illicit discharge inspection form should be used for all investigations and the spill/dumping response flow chart should be followed.

Illicit discharge hotline number will be posted on the Providence City website.

### Documentation for Priority List of Illicit Discharge Emphasis

1. Older Infrastructure - Illicit discharge has not been enforced in Providence City for very long and it seems prudent to start here.
2. Area's Upstream - Need to protect sensitive water is important to us. (Spring Creek)
3. Onsite Disposal - We still have a few residents using septic systems and we feel it important to monitor them.
4. Industrial, Commercial - Fairly new in Providence City, but we desire to monitor them for compliance because of chemicals used and potential dangers of such.

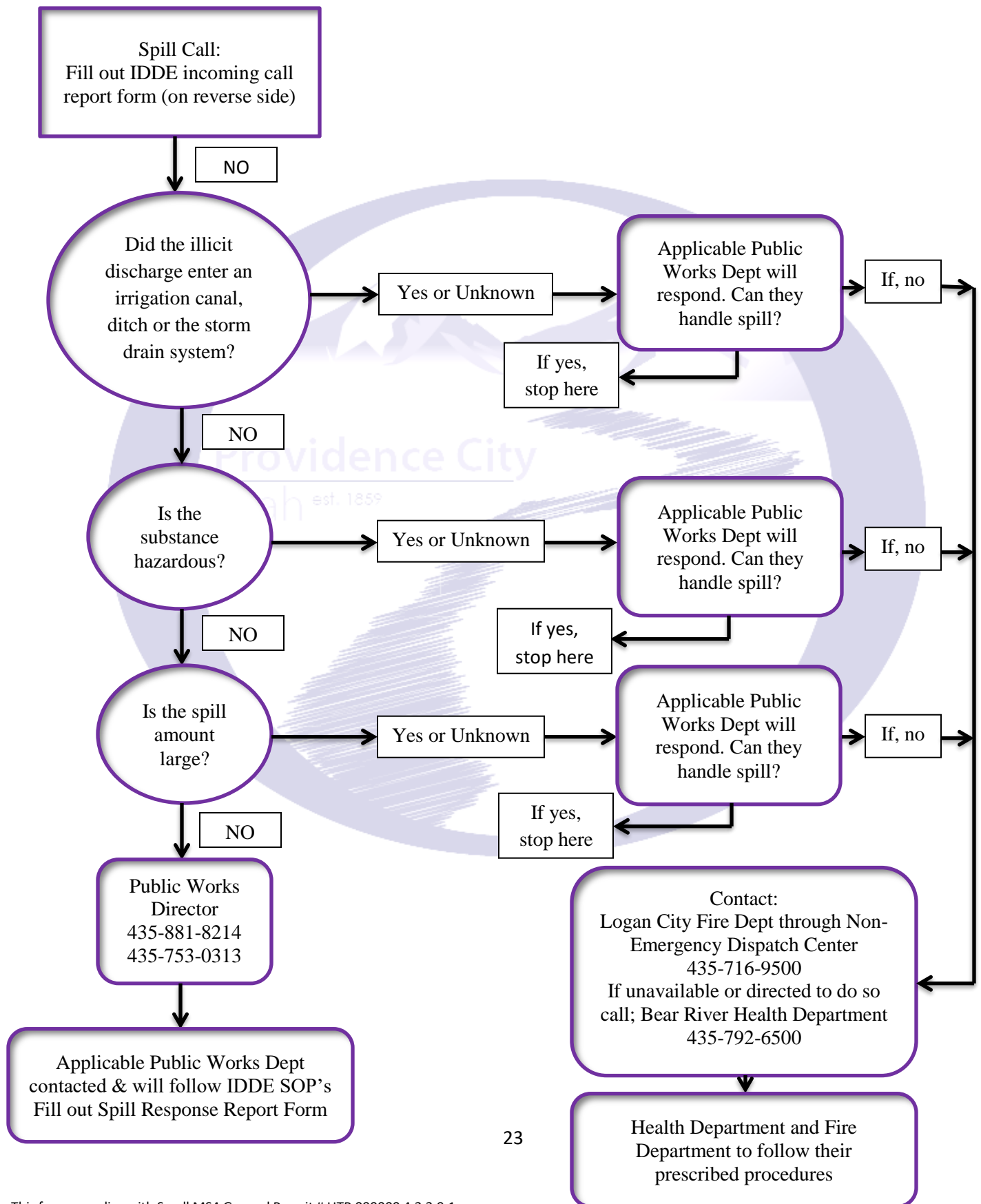
### Illicit Discharge Investigation Form

|  |                            |
|--|----------------------------|
| Today's Date   | Date Investigation Started |
| Date Became Aware/Date Reported  |                            |
| Time Became Aware/Time Reported  |                            |
| Name & Contact Information of Party Reporting Discharge  |                            |
| Description of Events Leading up to Discovery  |                            |
| Location of Discharge  |                            |
| Description of Discharge   |                            |
| Date of Removal, Repair of Enforcement Action  |                            |
| Date and Method of Removal Verification  |                            |
| Analytical Monitoring Used <input type="checkbox"/> yes <input type="checkbox"/> no, if yes lab used   |                            |
| Contact Made With Responsible Party <input type="checkbox"/> yes <input type="checkbox"/> no<br>Responsible Party Name and Contact Information |                            |
| Method Reported  |                            |

\_\_\_\_\_  
Name

\_\_\_\_\_  
Signature

## Incident Response Flow Chart Providence City



## Construction Site Storm Water Runoff Control

- 4.2.4 Implement and enforce a program to reduce pollutants in any storm water runoff to the MS4 from construction sites with a land disturbance of greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development.
- 4.2.4.1 Review City code and ordinances or other regulatory mechanisms that require the use of erosion and sediment control practices at construction sites that is equivalent to the UPDES Storm Water General Permit for Construction Activities UTR090000 and update as necessary.
- Require construction operators to prepare a SWPPP
  - Apply sediment and erosion BMP's
  - Allows access to inspect BMP's
- 4.2.4.2 Use our written enforcement strategy and implement the enforcement provisions of the ordinance or other regulatory mechanism.
- SOP to include processes and sanctions to minimize occurrence of violators and gain compliance, including escalating enforcement
  - Documentation and tracking of all enforcement actions
- 4.2.4.3 Develop and implement SOP's for pre-construction SWPPP review for construction sites.
- Conduct a pre-construction SWPPP review
  - Incorporate procedures to consider potential water quality impacts
  - Incorporate procedures for pre-construction review with the use of a checklist
  - Procedures to evaluate opportunities for LID uses
  - Identify priority construction sites
- 4.2.4.4 Develop and implement SOP's for construction site inspection and enforcement of construction storm water pollution control measures.
- 4.2.4.5 Ensure proper training to staff whose duties relate to the construction storm water program with proper training records kept.
- 4.2.4.6 Implement procedures to maintain records of all projects disturbing one acre, including projects less than one acre that are a part of a larger common plan.
- Records kept should include:
    - site plan reviews
    - SWPPP's
    - inspections and enforcement actions
    - stop work orders, warning letters, notices of violation



## Long Term Storm Water Management (Post Construction)

Objective: For the hydrology associated with new development to mirror the pre-development hydrology of the previously undeveloped site or to improve the hydrology of a redeveloped site and reduce the discharge of storm water.

This program applies to private and public development sites, including roads.

Individuals or entities involved with post construction management shall document how the selected BMP's protect water quality and reduces the discharge of pollutants to the MS4. Documentation shall include but is not limited to;

- How long term BMP's were selected
- The pollutant removal expected from the selected BMP's; and
- The technical basis which supports the performance claims for the selected BMP's

Individuals or entities involved with post construction management must ensure that any storm water controls or management practices will prevent or minimize impacts to water quality.

The policy encourages development and redevelopment be minimized in area's susceptible to erosion and sediment loss; to minimize the disturbance of native soils and vegetation; to preserve areas in the municipality that provide important water quality benefits; to implement measures for flood control; and to protect the integrity of natural resources and sensitive areas.

This program allows for, encourages and requires that low impact development (LID) be considered in development or redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale.

Providence City recognizes a low impact development approved which encourages the implementation of structural BMP's, where practicable, that infiltrate, evapotranspire or harvest and use storm water from the site to protect water quality. Structural controls may include green infrastructure practices such as rainwater harvesting (in accordance with State law), rain gardens, permeable pavement and vegetation swales. The selection and design of all post construction controls must take into consideration clogging or obstruction issues, freeze/thaw problems, effects on slope stability and ground water and the ability to effectively maintain the control.

When existing developed sites are found to be adversely impacting water quality, redevelopment or retrofitting of the site must be considered. The retrofit plan must be developed to emphasize controls that infiltrate, evapotranspire or harvest and use storm water discharges.

The following should be considered when developing a retrofit plan;

- Proximity to water body
- Status of water body to improve impaired water bodies and protect unimpaired water bodies
- Hydrologic condition of the receiving water body
- Proximity to sensitive ecosystem or protected area
- Any upcoming sites that could be further enhanced by retrofitting storm water controls

## Pollution Prevention/Good Housekeeping

### Public Buildings

Library  
City Office

Parking lots – high priority

### Park Facilities

Baseball Complex  
Splash Pad  
2<sup>nd</sup> Pond at Hampshire Park  
City Parks and Trails  
All structural BMP's city wide

All City streets – high priority

### Public Works Facility – All covered under sector “P” permit

Shop (equipment storage and maintenance facilities)  
Salt storage – high priority  
Fuel storage – high priority  
Vehicle storage  
Material storage  
Recycling facilities  
Public parking lots (city owned)  
Clarifier/wash out – high priority

## APPENDIX

As the City code is updated or modified for storm water purposes, they will be added here. The City is currently working on ordinance modifications that will be added.

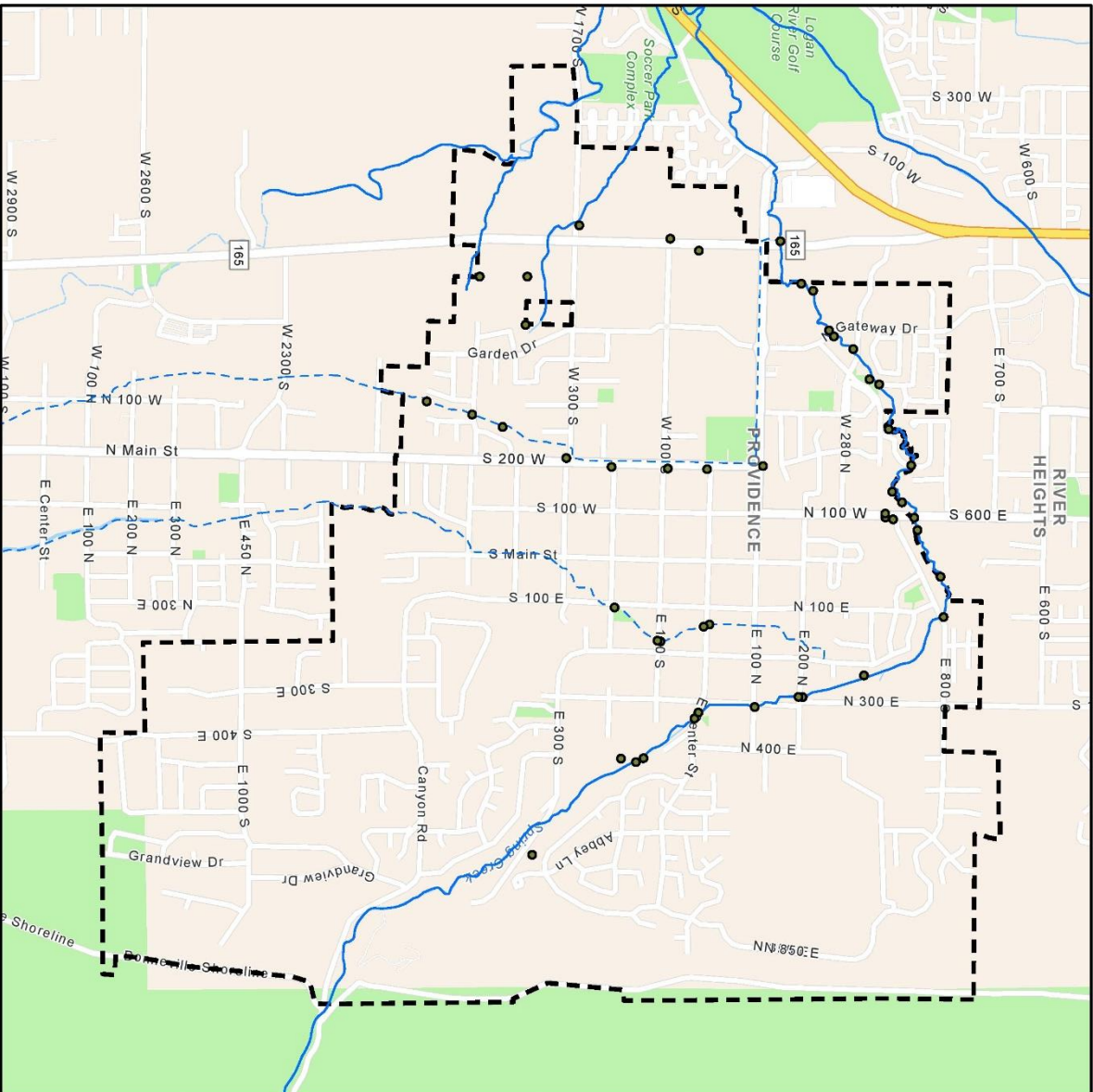
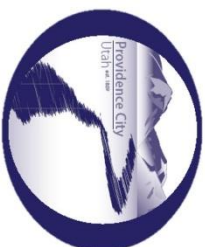


# Providence City Stormwater Outfalls

December 2021

- Outfall
- River/Stream
- Major Canal
- - - City Boundary

These layers are part of a much larger GIS database being built on ArcGIS by Providence City. The record is incomplete, but actively expanding.

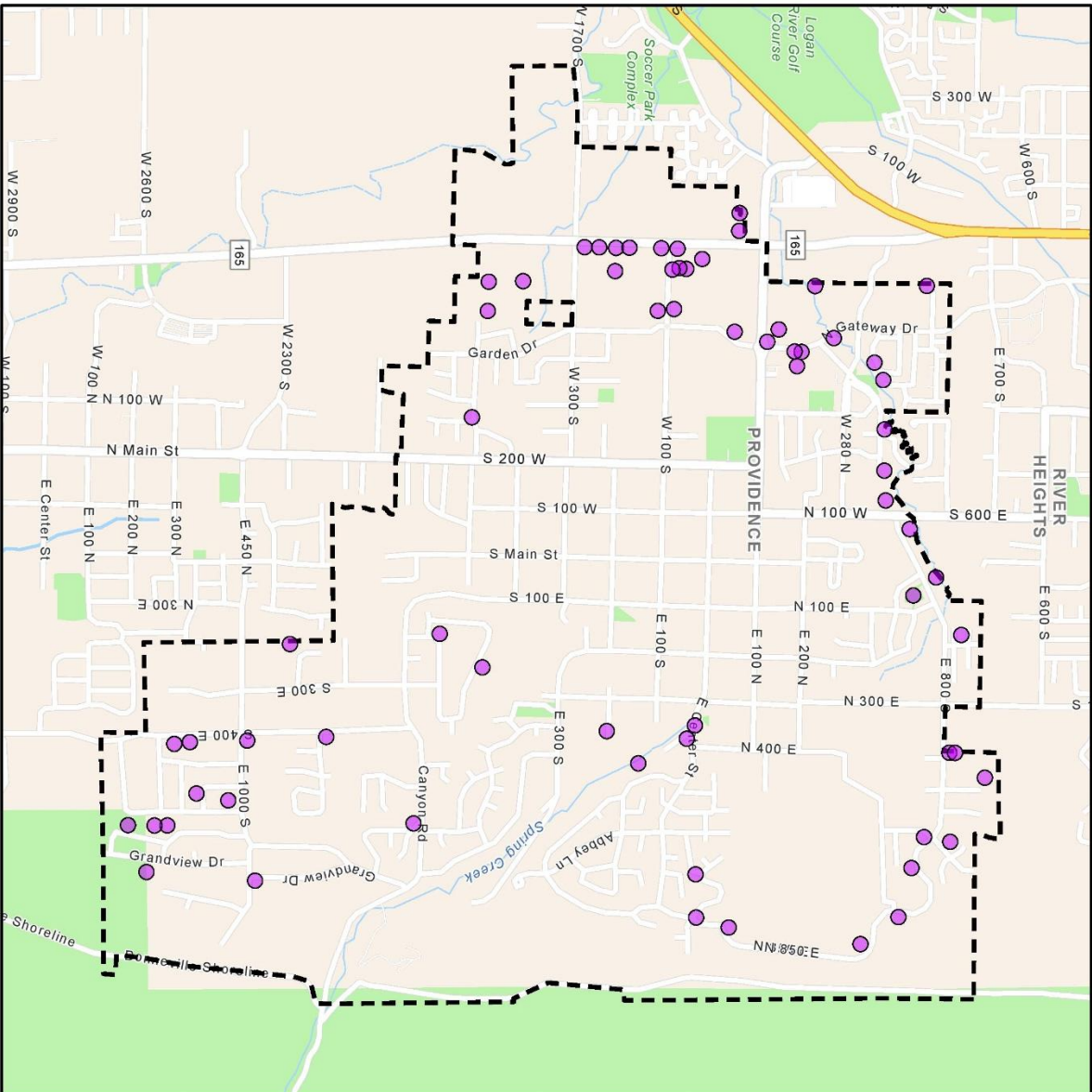
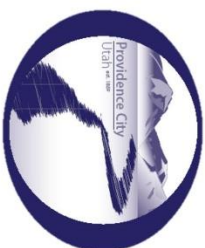


# Providence City Stormwater Ponds

December 2021

 Ponds  
 City Boundary

These layers are part of a much larger GIS database being built on ArcGIS by Providence City. The record is incomplete, but actively expanding.





## December 2021

 Curb or Junction Box  
 City Boundary

