RIVERTON UTAH	**STANDARD OPERATING PROCEDURE** **DEPARTMENT OF PUBLIC WORKS** **PROGRAM:** Dry Weather Screening	**SOP NUMBER:**	**ISSUE DATE:** 1/9/2023

APPROVED BY:

_____

Public Works Director

PERMIT REQUIREMENT:

4.2.3.2, 4.2.3.3, 4.2.3.3.1, 4.2.3.3.2, 4.2.3.4, 4.2.3.6.1, 5.3, 7.32
The MS4 permit requires non-analytical stormwater monitoring. This is typically accomplished by visual inspection or by comparative qualitative tools. Requirements include written procedures to detect and trace, hazardous spills, illegal connections and dumping and documenting these events. It also requires procedures for containment, prevention and enforcement.

TARGETED POLLUTANTS:

Sewer, Detergents
Commercial and Household Dumping

General:
THIS SOP IS NOT EXPECTED TO COVER ALL NECESSARY PROCEDURE ACTIONS. OPERATORS ARE ALLOWED TO ADAPT SOPS TO UNIQUE SITE CONDITIONS IN GOOD JUDGMENT WHEN IT IS NECESSARY FOR SAFETY, AND THE PROPER, AND EFFECTIVE CONTAINMENT OF POLLUTANTS. HOWEVER, ANY CHANGES OF ROUTINE OPERATIONS MUST BE AMENDED IN THIS SOP.

1. PURPOSE AND SELECTION:

a) Identify illegal pipe connections
b) Identify maintenance activities that are discharging non-stormwater liquids and polluted runoff
   - Discharge of maintenance wash water
   - Discharge polluted runoff purposely dumped or inadvertently placed on the ground.
   - Any other polluted or non-stormwater runoff

2. APPLICATION:

a) Screening Riverton MS4 outfalls to non-Riverton jurisdictional systems.
   - UDOT's 12600S and Redwood Road systems,
   - Jordan River, Midas, Rose and Butterfield Creeks.
   - Beckstead Ditch, Utah and Salt Lake, Utah Lake and Welby Canals.

b) The program involves visual inspection of MS4 outfalls for non-stormwater discharges. When water is found during dry weather conditions or there is evidence of past pollution the following are concerns.
   - An illegal connection or illegally dumping into storm drain systems.
   - Maintenance wash waters of surfaces draining to storm drain systems.
   - People are leaving or dumping solids on the surface that are washed to storm drain systems with precipitation.
   - However, many times it could be legal sources like, culinary and secondary overspray. These sources are ok when no pollutant is intentionally or unintentionally mixed with it.

c) All MS4 outfalls are shown with the online Stormwater Map as priority or non-priority. gis.rivertoncity.com/portal/apps/View/index.html?appid=b1f19485b493490fb7f901f866ce6793

d) The permit minimum requires:
   - Permit(4.2.3.3.2) requires priority outfalls be inspected annually
   - Permit(4.2.3.3.3) requires non-priority are inspected every 5years.

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4. DRY WEATHER SCREENING PROCEDURE

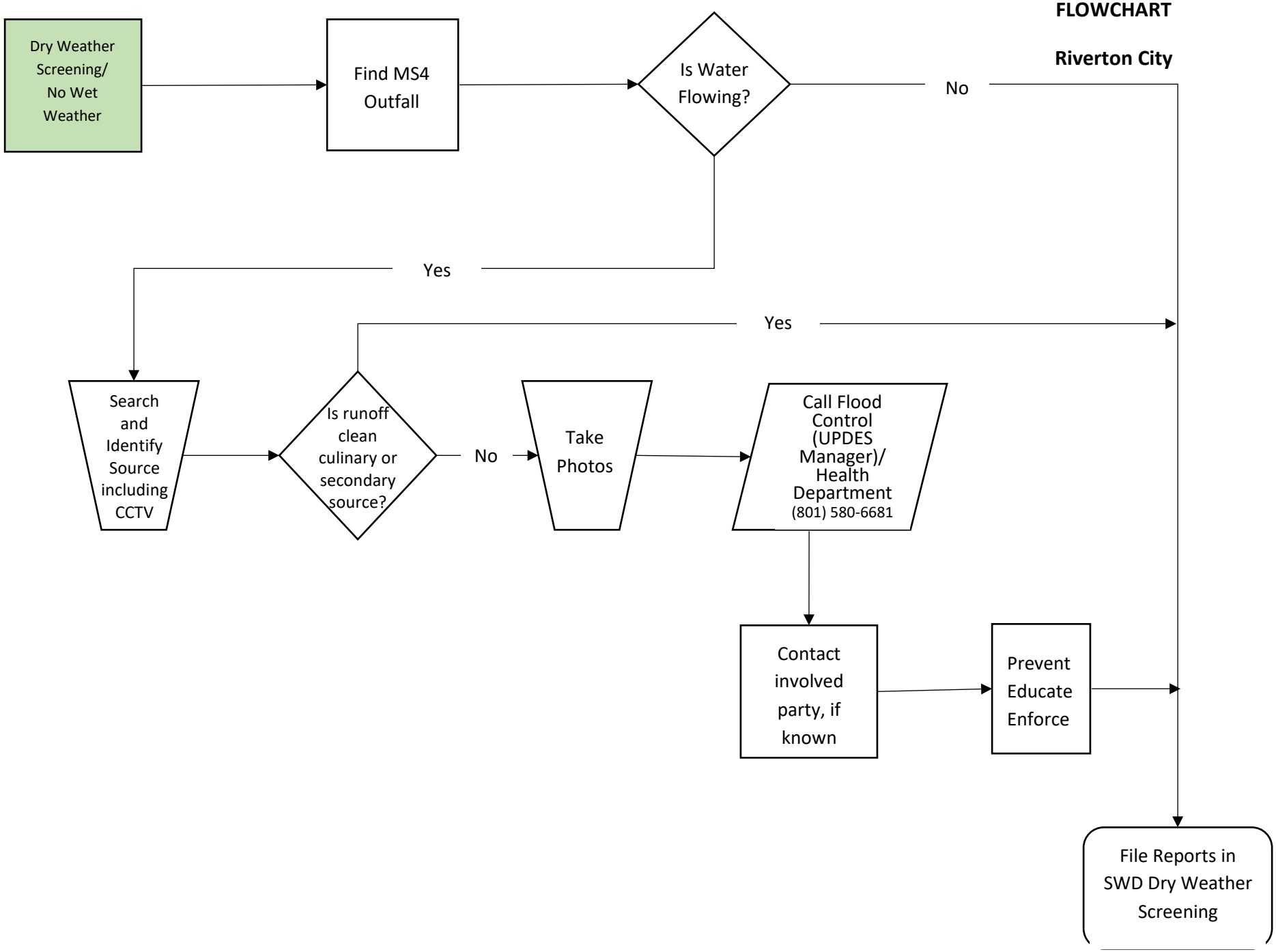
a) Dry Weather Screen the MS4 Outfall just prior to cleaning the reach of pipe connected to the MS4 Outfall during hydro vacuum and CCTV operations. This should satisfy the permit requirement most of the time but conduct additional inspections as necessary to satisfy the inspection frequency.
b) Follow Dry Weather Screening Flow Chart for each outfall and record screening status in iworqs Work Management SWD Dry Weather Screening.
c) Look for the information identified on the Dry Weather Screening Field Data Sheet. You may report the critical information directly into the City iworqs data base or complete the form and upload to the City iworqs data base system.
Reference chart attached
d) Contact the City SWMP Manager (Flood Control Engineer) when illegal discharges are found. The SWMP Manager will determine if the case an investigation.

5. TRAINING:

a) Review Dry Weather Screening SOP Annually
b) Send email to SWMP manager when training complete. This is suggested every June during the annual report period.

DRY WEATHER SCREENING FLOWCHART

Riverton City



RIVERTON CITY - *Stormwater UPDES Permit* **Permit No.**

DRY WEATHER SCREENING FIELD DATA SHEET

Sheet No.

Outfall ID (CO or UDOT)

Date

Time

GENERAL INFORMATION

Time Since Last Rain:	☐	>24 hours	☐	<24 hours	Inspection Team:
Quantity of Last Rain:	☐	>0.1 inch	☐	<0.1 inch	

FIELD SITE DESCRIPTION

Location:

Dominant Watershed Land Uses:

☐ Initial Inspection	☐	Outfall	☐	Hvy. Industry	☐ Transport	☐	Hvy. Res.
☐ Follow Up	☐	Open Channel	☐	Lt. Industry	☐ Publ. Land	☐	Med. Res.
	☐	Manhole	☐	Commercial	☐ Agric.	☐	Lt. Res.
	☐	Other				☐	Other

Known UPDES - Permitted Discharges Upstream:

(Names of major industries, neighborhoods, etc.)

FLOW ESTIMATION AT TIME OF SAMPLING

Flow Observed? ☐ Yes ☐ No _____ CFS Measured or Approximated (circle one)

Approx. Dimensions:

Pipe Diameter _____ inches *Box Culverts* _____ ft. by _____ ft.

Channel Width _____ feet *Number of boxes* _____

Bucket & Stopwatch Method (preferred):		Dimensions & Velocity Method: For Rectangular Channel		For Circular Pipe	
A. Volume of water collected		A. Water Surface Width (ft)		A. Flow Depth (ft.)	
B. Time elapsed during		B. Depth of Water (ft)		B. Flow Area (sq. ft.)	
C. Flowrate (gal/sec)=A/B		C. Flow Velocity (ft/sec)		C. Flow Velocity	
D. Flowrate (cfs)=C/7.48		D. Flowrate (cfs)=AxBxC		D. Flowrate (cfs)=BxC	

VISUAL OBSERVATIONS

Photo Taken? Yes ☐ No ☐ Roll No. _____ Frame No. _____

Odor:	Color:	Turbidity:	Floatables:
☐ None	☐ Clear	☐ Clear	☐ None
☐ Musty	☐ Red	☐ Cloudy	☐ Vegetation
☐ Sewage	☐ Yellow	☐ Opaque	☐ Oily
☐ Rotten Eggs	☐ Brown	☐ Suspended Solids	☐ Garbage
☐ Sour Milk	☐ Green	☐ Other:	☐ Sewage
☐ Other:	☐ Grey		☐ Other:
	☐ Other:		

Deposits/Stains:	Biological:	Vegetation:	Structural Condition:
☐ None	☐ None	☐ None	☐ Normal
☐ Sediments	☐ Mosquito Larvae	☐ Normal	☐ Concree spall/cracks
☐ Oily	☐ Bacteria/Algae	☐ Excessive Growth	☐ Metal Corrosion
☐ Other:	☐ Other:	☐ Inhibited Growth	☐ Other:
		☐ Other:	

WATER QUALITY PARAMETER MEASUREMENTS

Date			pH		units	Metals Toxicity
Time		MST	Ammonia		mg/L	☐ Reactive
Temperature		degrees C	Surfactants		mg/L	☐ Non-reactive
Specific Conductivity		mSiemens/cm				

ACTION LEVELS

☐ No further investigation	Comments (additional space on back)
☐ Exceeds action level	
☐ Exceeds reportable level	