



## PUBLIC WORKS OPERATIONS

# PW OPS!



- SLCo Public Works Operations is an Enterprise Fund
- Primary Customers include:
  - Greater Salt Lake Municipal Service District
  - Holladay
  - Millcreek
  - Taylorsville
- We also provide various other services, such as signal maintenance, to 12 other municipalities in the county.

# SL SALT LAKE COUNTY

## PUBLIC WORKS OPERATIONS



# Snow Plowing

- Snow typically cleared within 12 hours.



# Snow Plowing

- Average over 35,000 tons of salt spread per year.



# Pavement Maintenance

- Potholes
- Asphalt Tie-ins
- Crack Sealing
- Slurry Seals



# Pavement Maintenance

- Chip Seals (Being replaced with Micropaving)
- Milling
- Overlays
- Reconstruction



# Concrete Work

- Sidewalks
- ADA Ramps
- Curbs and gutters
- Waterways



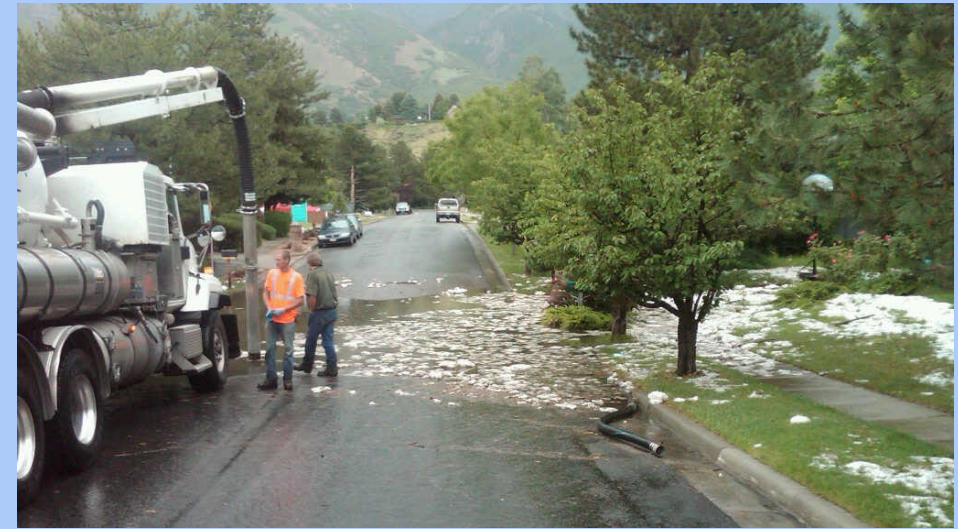


# UTILITIES – Blue Staking



# Municipal Storm Water System

- Storm drain inlets cleaned
- Detention & Retention Basins
- Inlets/Boxes/Pipes/Trenches
- Street Sweepers



# Pavement Markings

- Crosswalks
- Logos & Messages
- Long Lines
- Parking Lots
- Bike Markings



# Signs

- Informational
- Regulatory
- Street Signs
- Trails
- Warning
- Specialty Signs
- Plus – Traffic Counts



# Electrical Crew & ATMS

- Signals – Close to 400!
- School Flashers
- Electronic Speed Limit Signs
- Street Lights



# Roadside Maintenance

- Mowing
- Park Strips
- Trees
- Noxious Weed Removal



# Trustee Crews

- Code Enforcement
- Cleanups
- Weeds
- Snow Removal
- Specialty Projects
- Snow Removal



# Strong Safety Program





# Emergency Response and Support for Others



# PUBLIC WORKS ENGINEERING

August 20, 2024

Program	Description
<b>Project Management and Design</b>	<p><b>Capital Improvement Projects</b> - Project Management, Design, ROW, Bidding, Contracting, Construction Management, Construction Inspection.</p> <p><b>Capital Improvement Plans</b> - 5- &amp; 10-year plans for Roads, Storm Drains, Traffic Calming, Sidewalks.</p> <p><b>Engineering Studies</b> - Roadway, Transportation, Drainage Master Plans, Parking, Environmental, etc.</p> <p><b>Grant Writing</b> - Safer Sidewalks/School Outreach &amp; Coordination, Safe Routes to School, Complete Streets (Bicycle, Active Transportation).</p>

# Public Works Engineering



Program	Description
Permits and Regulatory	<p data-bbox="631 172 2372 268"><b>Municipal Separate Storm Sewer Systems (MS4) /Utah Pollutant Discharge Elimination System (UPDES)</b> - storm water quality permit management and compliance.</p> <ul data-bbox="631 325 2448 825" style="list-style-type: none"> <li>• Annual and semi-annual reporting required by State and EPA</li> <li>• Storm Drain Outfall monitoring and sampling (Dry Weather), w/new coliform TMDL requirements</li> <li>• Public Education and Outreach, w/new coliform TMDL requirements</li> <li>• Public Involvement/Participation (public surveys, curb markings, stream crossing signs)</li> <li>• Illicit Discharge Detection and Elimination (IDDE) – 24-hour availability</li> <li>• Construction site storm water runoff control (SWPPP)</li> <li>• Post-construction storm water management</li> <li>• Pollution Prevention and Good Housekeeping for Municipal Operations</li> <li>• Monitoring, Record Keeping, and Reporting</li> </ul> <p data-bbox="631 882 1072 925"><b>Permit Administration</b></p> <ul data-bbox="631 982 2397 1182" style="list-style-type: none"> <li>• Road Cut, Curb Cut, Encroachment, and Special Event Permitting within municipal ROW</li> <li>• Franchise Agreement Coordination (ie. RMP, Questar, Water and Sewer Districts)</li> <li>• Fee collection and Bonding</li> </ul>

# Public Works Engineering – Cont 1



Program	Description
<b>Development Review</b>	<p>Professional Engineering Review of new development plans and subdivisions for compliance with Metro Townships' codes and ordinances and industry standards.</p> <ul style="list-style-type: none"><li>• Structural Review</li><li>• Hydraulic Review (drainage)</li><li>• Transportation Code Review (curb and gutter, sidewalk, parking, etc.)</li><li>• Geotechnical Review (Special Hazards)</li><li>• Floodplain Development Permit (FDP) Engineering Review</li></ul>

## Public Works Engineering – Cont 2



SALT LAKE  
COUNTY

FLOOD CONTROL

August 20, 2024

# County Flood Control Authority

- Utah Code, Title 17 Chapter 8
- SL County Code Title 17



**Wheeler Farm**  
Little Cottonwood Creek

# Flood Control Fund Countywide

Program	Description
<b>Project Management and Design</b>	<p><b>Capital Improvement Projects</b> - Project Management, Design, ROW, Bidding, Contracting, Construction Management, Construction Inspection.</p> <p><b>Capital Improvement Plans</b> – 5, 10, &amp; 20 -year plans for Flood Control Facilities, Drains, and Canals</p> <p><b>Flood Control Engineering Studies</b> - Drainage Master Plans, Hydrology Master Plans, Gauging, and Environmental, etc.</p> <p><b>Grant Writing</b> - FEMA BRIC, State Non-Point Source and CWA 319 grants</p>



# Flood Control Fund Countywide – Cont 1

Program	Description
<b>Permits and Regulatory</b>	<p><b>MS4<sup>1</sup>/UPDES<sup>2</sup></b> storm water quality permit management and compliance.</p> <ul style="list-style-type: none"><li>• Annual and semi-annual reporting required by State and EPA</li><li>• Public Education and Outreach, w/new coliform TMDL requirements</li><li>• Public Involvement/Participation (public surveys, curb markings, stream crossing signs) – <b>SL County Stormwater Coalition (for all Municipalities)</b></li><li>• Illicit Discharge Detection and Elimination (IDDE) – 24-hour availability</li><li>• Pollution Prevention and Good Housekeeping for Municipal Operations</li><li>• Monitoring, Record Keeping, and Reporting</li></ul> <p><b>Flood Control Permit Administration</b></p> <ul style="list-style-type: none"><li>• Flood Control Permits on all Countywide Flood Control Facilities for encroachment, SW discharge, and alteration.</li></ul>

<sup>1</sup>Municipal Separate Storm Sewer Systems (MS4)

<sup>2</sup>Utah Pollutant Discharge Elimination System (UPDES)

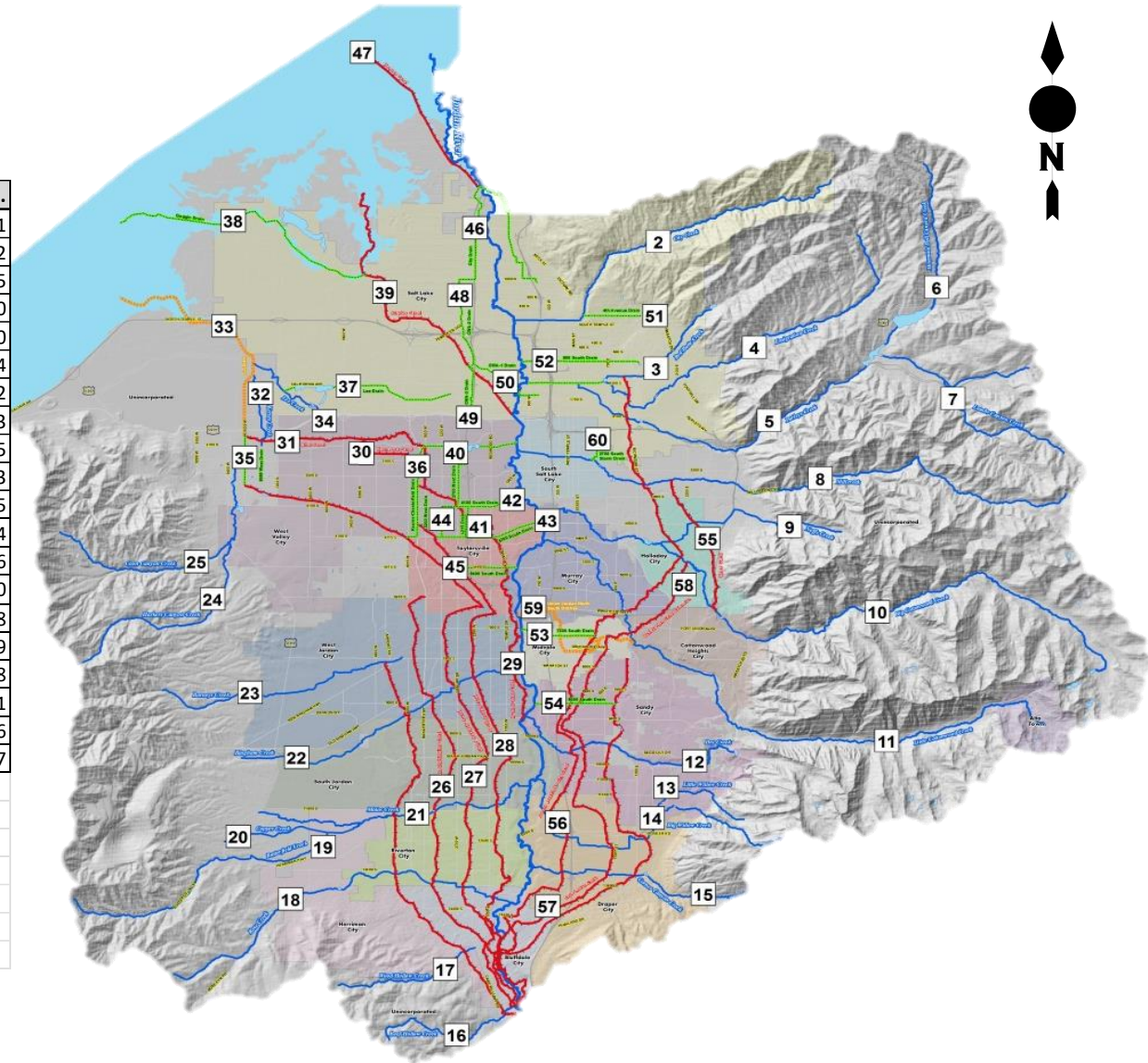
# Flood Control Fund Countywide – Cont 2

Program	Description
Operations and Maintenance	Countywide Flood Control System  <b>Coming Up Next</b>

# Flood Control Facilities



Creeks & River	No.	Canals	No.	Drains	No.
Barneys Creek	23	East Jordan Canal	57	4th Avenue Drain	51
Beef Hollow Creek	16	East Jordan Canal Extension	58	800 South Drain	52
Big Cottonwood Creek	10	Jordan & SLC Canal	56	1300 South Drain	3,4,5
Big Willow Creek	13	Kennecott Canal	30	2700 South Drain	60
Bingham Creek	22	North Jordan Canal	29	2700 West Drain	40
Butterfield Creek	19	Riter Canal	31	3200 West Drain	44
City Creek	2	Sewage Canal	47	4100 South Drain	42
Coon Canyon Creek	25	South Jordan Canal	28	4700 South Drain	43
Copper Creek	20	Surplus Canal	39	5400 South Drain	45
Corner Canyon Creek	15	Upper Canal	55	7200 South Drain	53
Dry Creek	12	Utah & Salt Lake	27	8000 West Drain	35
Emigration Creek	4	Utah Lake Distributing Company	26	9000 South Drain	54
Harkers Canyon Creek	24			City Drain West Branch	46
Jordan River	1	<b>Ditches</b>	<b>No.</b>	CWA 1 Drain	50
Kersey Creek	32	C7 Ditch	33	CWA 2 Drain	48
Lamb's Canyon Creek	7	Union Jordan North & South Ditch	59	CWA 3 Drain	49
Lee Creek	34			Goggin Drain	38
Little Cottonwood Creek	11			I-215 Drain	41
Little Willow Creek	14			Kearns Chesterfield Drain	36
Midas Creek	21			Lee Drain	37
Mill Creek	8				
Mountain Dell Canyon Creek	6				
Neff's Creek	9				
Parleys Canyon Creek	5				
Red Butte Creek	3				
Rose Creek	18				
Wood Hollow Creek	17				



- 310 Miles of Creeks
- 177 Miles of Canals
- 78 Miles of Piped Systems
- 18 Miles of levee systems
- 32 Detention Basins

- 9 Debris Basins
- 33 Gauging Sites
- 88 Debris Grates
- 100 Water Quality Sampling Sites

# Flood Control Does Not Cover:

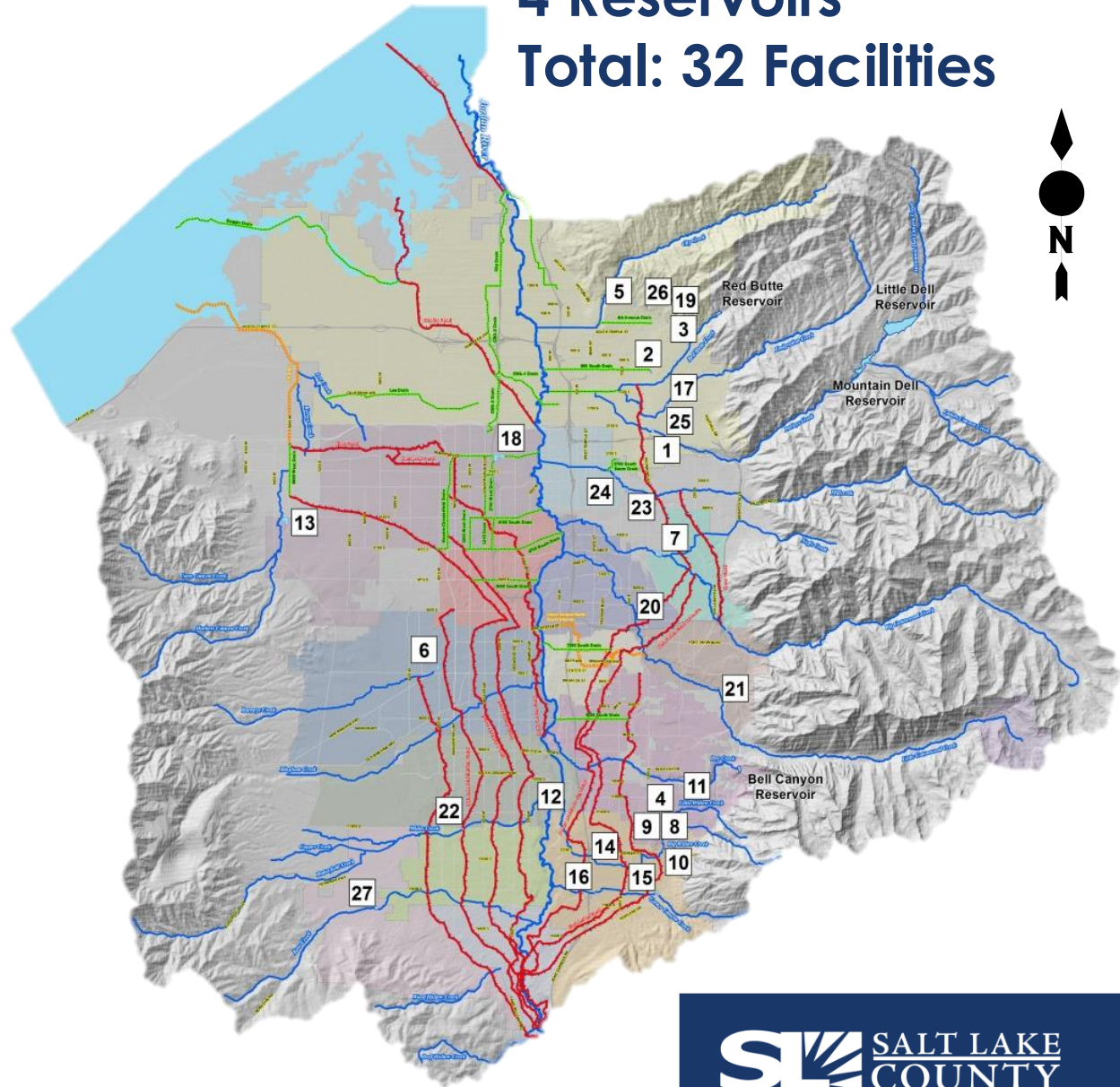
- Municipal Storm Drains (including Unincorporated County)
- Bridge or culvert crossings for roads over Flood Control Facilities
- The municipal functions of the County's UPDES permit



# Detention Basins

4 Reservoirs  
Total: 32 Facilities

ID	Name	Location
1	Nibley Park Golf Course Detention Basin	2780 S 700 E
2	East High School Retention Basin	860 S 1400 E
3	Federal Heights Retention Basin	1691 E Federal Heights Dr (240 N)
4	Big Willow Creek Detention Basin	1821 E Wasatch Blvd (11625 S)
5	11th Ave Detention Basin	909 E 11th Ave
6	South Valley Regional Airport Detention Basin	4152 W 7800 S
7	Creskide Park Detention Basin (Frisbee Park)	1592 E Murray Holladay Rd (4760 S)
8	Hidden Valley Club Detention Basin	1687 E Hidden Valley Country Club Dr (12180 S)
9	Cypress Point Wy Detention Basin	12217 S Cypress Point Way (1630 E)
10	Draper Pond Detention Basin	1709 E Pioneer Rd (12340 S)
11	High Mesa Dr Detention Basin	11313 S High Mesa Dr (2125 E)
12	Big Willow Creek 11400 S Detention Basin	573 W 11400 S
13	ATK Detention Basin	7601 W 4100 S
14	Corner Canyon Detention Basin	13433 S 1300 E
15	South Mountain Golf Club Detention Basin	13800 S Lower Corner Cyn (1625 E)
16	Minuteman Dr Detention Basin	13343 South Minuteman Dr (150 E)
17	Wasatch Park Detention Basin	1700 S 1631 E
18	Decker Lake Detention Basin	2313 W Parkway Blvd (2700 S)
19	Popperton Park Wy Detention Basin	1500 E Popperton Park Way (360 N)
21	Willow Creek Golf Course Detention Basin	8655 S Willow Creek Cir (3030 E)
22	Midas Creek 11800 S Detention Basin	11800 S 3363 W
23	Scotts Ave Detention Basin	872 E Scott Ave (3450 S)
24	Mill Creek 540 E Detention Basin	3195 S 540 E
25	Sugarhouse Park Detention Basin	1330 E 2100 S
26	Chandler Dr Detention Basin	1125 E Chandler Dr (590 N)
27	Rose Crest Park Detention Basin	6002 W 13900 S



**Decker Lake**  
Kearns Chesterfield Drain



**Wheeler Farm**  
Little Cottonwood Creek



**Willow Creek Country Club**  
Little Cottonwood Creek



**Midas Creek Park**  
Midas Creek



**550 East Pond**  
Mill Creek



**Scott Avenue**  
Mill Creek



**Sugar House Park**  
Parley's Creek



**Liberty Park**  
Red Butte, Parley's, Emigration Creeks



# The Largest Detention Basin That Serves Salt Lake County:

Utah Lake

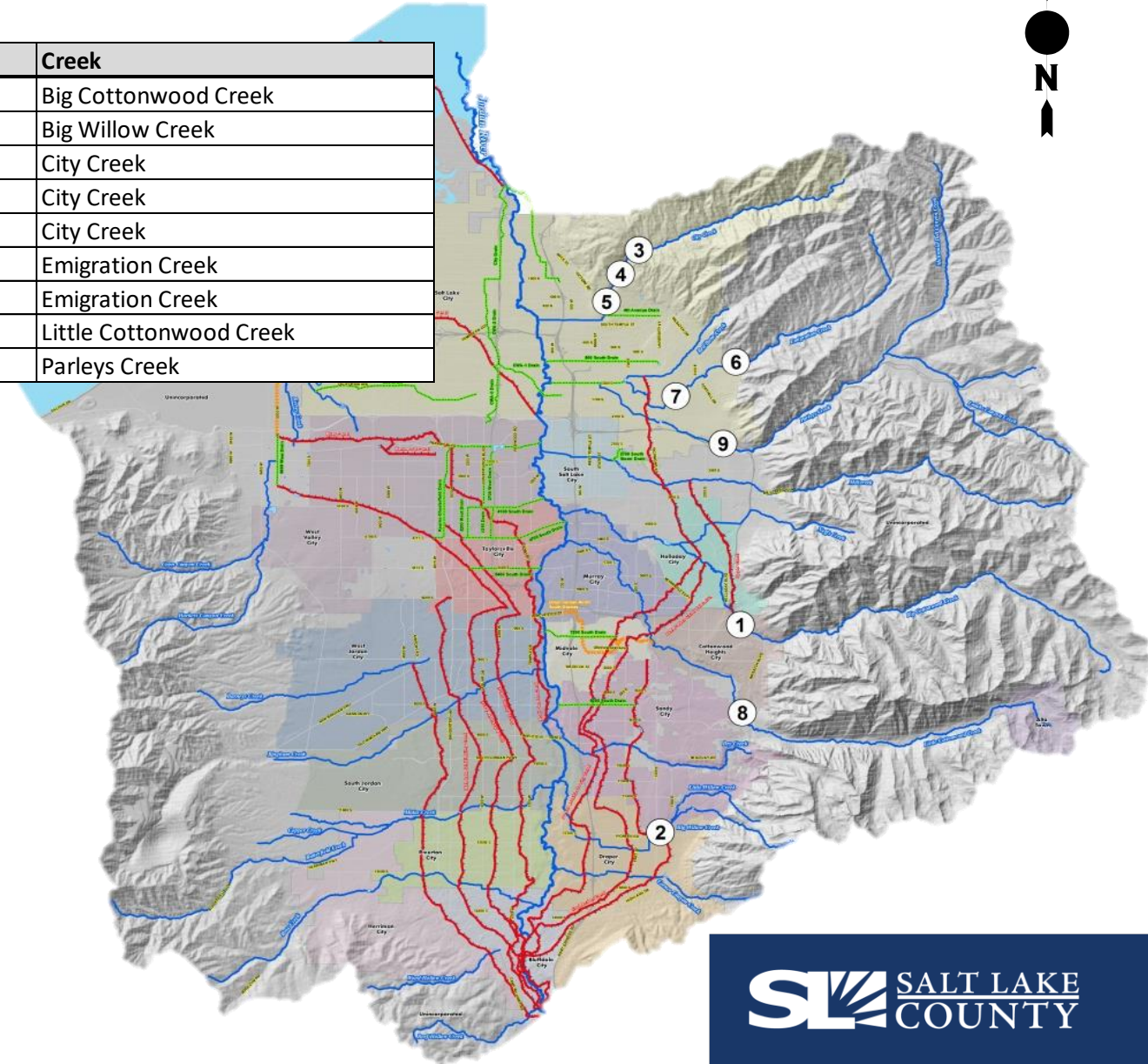


# Debris Basins



ID	Name	Location	Creek
1	Spencers Pond Debris Basin	6650 S Big Cottonwood Cyn Rd (3200 E)	Big Cottonwood Creek
2	Draper Pond Debris Basin	1709 E Pioneer Rd (12340 S)	Big Willow Creek
3	City Creek Upper Debris Basin	Bonneville Blvd (400 E) 375 N	City Creek
4	City Creek Lower Debris Basin	Bonneville Blvd (400 E) 375 N	City Creek
5	Memory Grove Debris Basin	375 N Canyon Rd (130 E)	City Creek
6	Rotary Glen Park Debris Basin	2903 E Kennedy Dr (840 S)	Emigration Creek
7	Wasatch Hollow Debris Basin	1700 S 1631 East	Emigration Creek
8	Upper Rail Debris Basin	9500 S Wasatch Blvd	Little Cottonwood Creek
9	Parleys Nature Park (Tanner Park)	2833 S 2870 East	Parleys Creek

**Total: 9 Facilities**



## Spencer Pond Big Cottonwood Creek



## Draper Pond Big Willow Creek



## Bonneville Blvd Upper City Creek



## Bonneville Blvd Lower City Creek



**Memorial Park  
City Creek**



**Rotary Park  
Emigration Creek**



**Wasatch Blvd "Upper Rail"  
Little Cottonwood Creek**



**Parleys Historic Nature Park  
Parley's Creek**



# Debris Management



**Upper Rails**  
Little Cottonwood Creek



# Debris Management



**Wheeler Farm**  
**Little Cottonwood Creek**

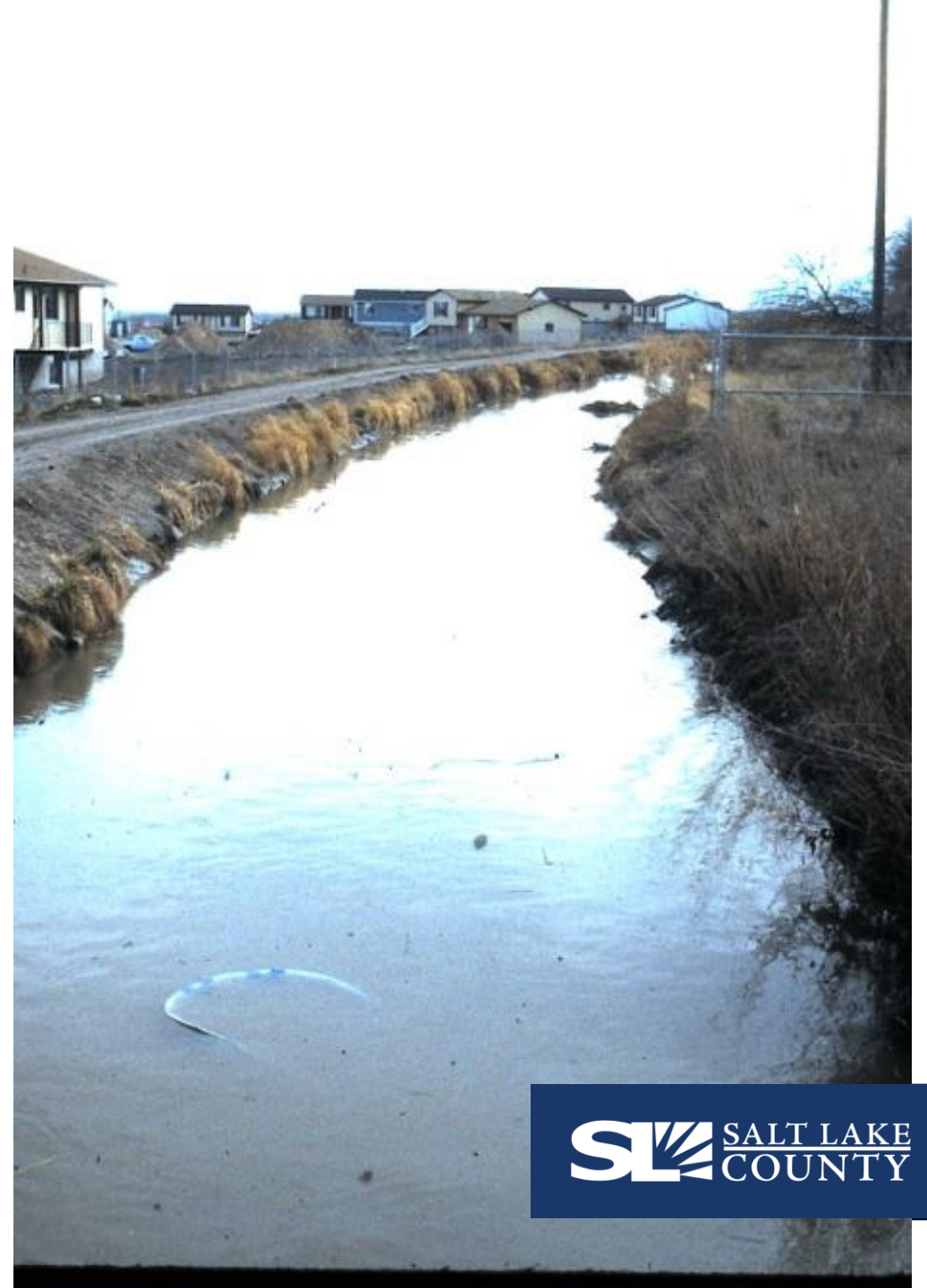
# Canal Companies

- The County has contracts with many of the larger canals to cover a percentage of maintenance (typically 25%). Through these agreements, cities are allowed to discharge stormwater to canals
- The County builds capital projects on canals that are vital to the overall flood control operations in the cities and county

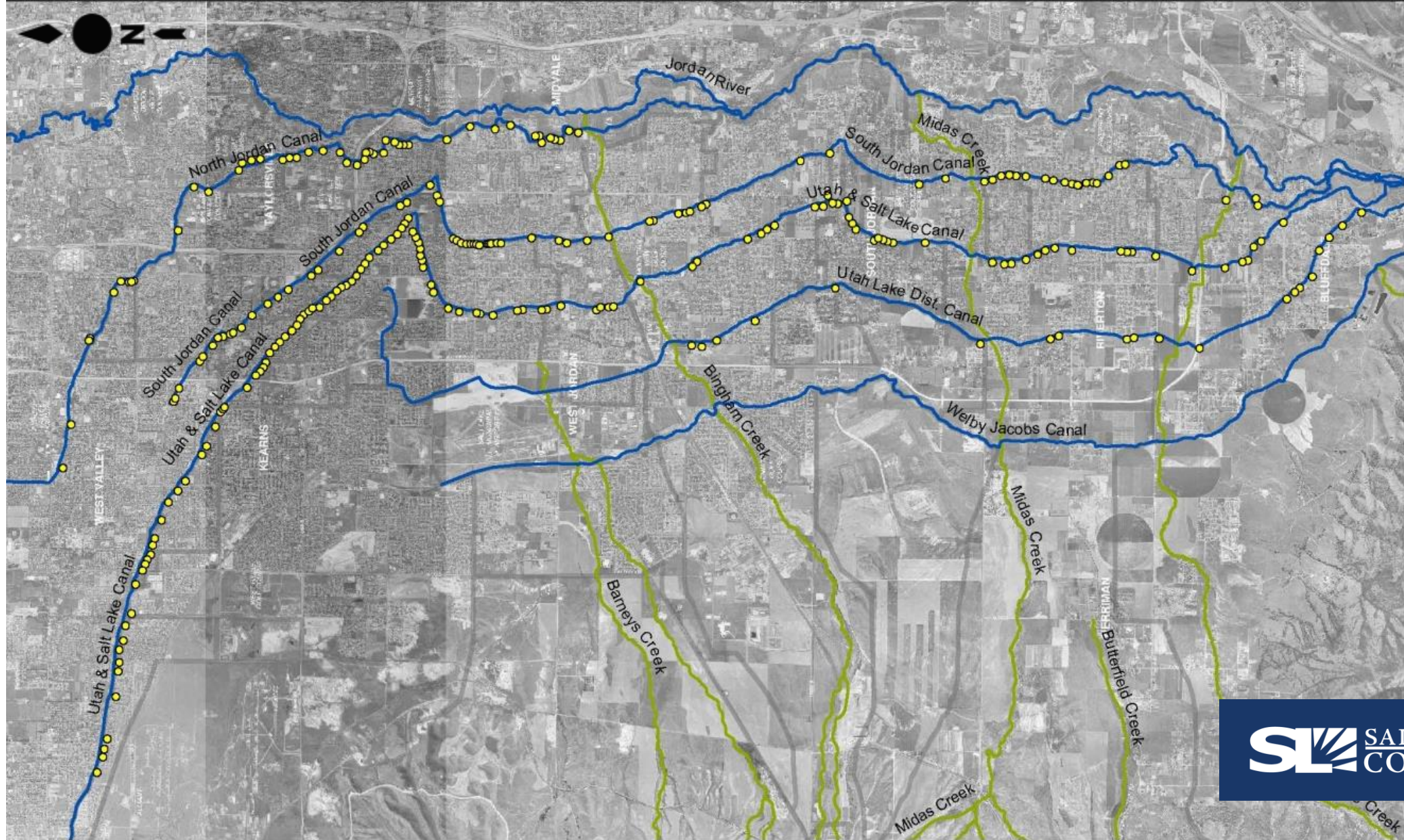


# County / Canal Company Agreements

- Save taxpayers \$ Millions in flood control infrastructure
- Allow the County and Cities to use the canals for storm water drainage
- County issues Flood Control Permits on Canals
- Canals are a vital part of Salt Lake County's Flood Control facilities



# County Canal SD Outfalls (Westside)

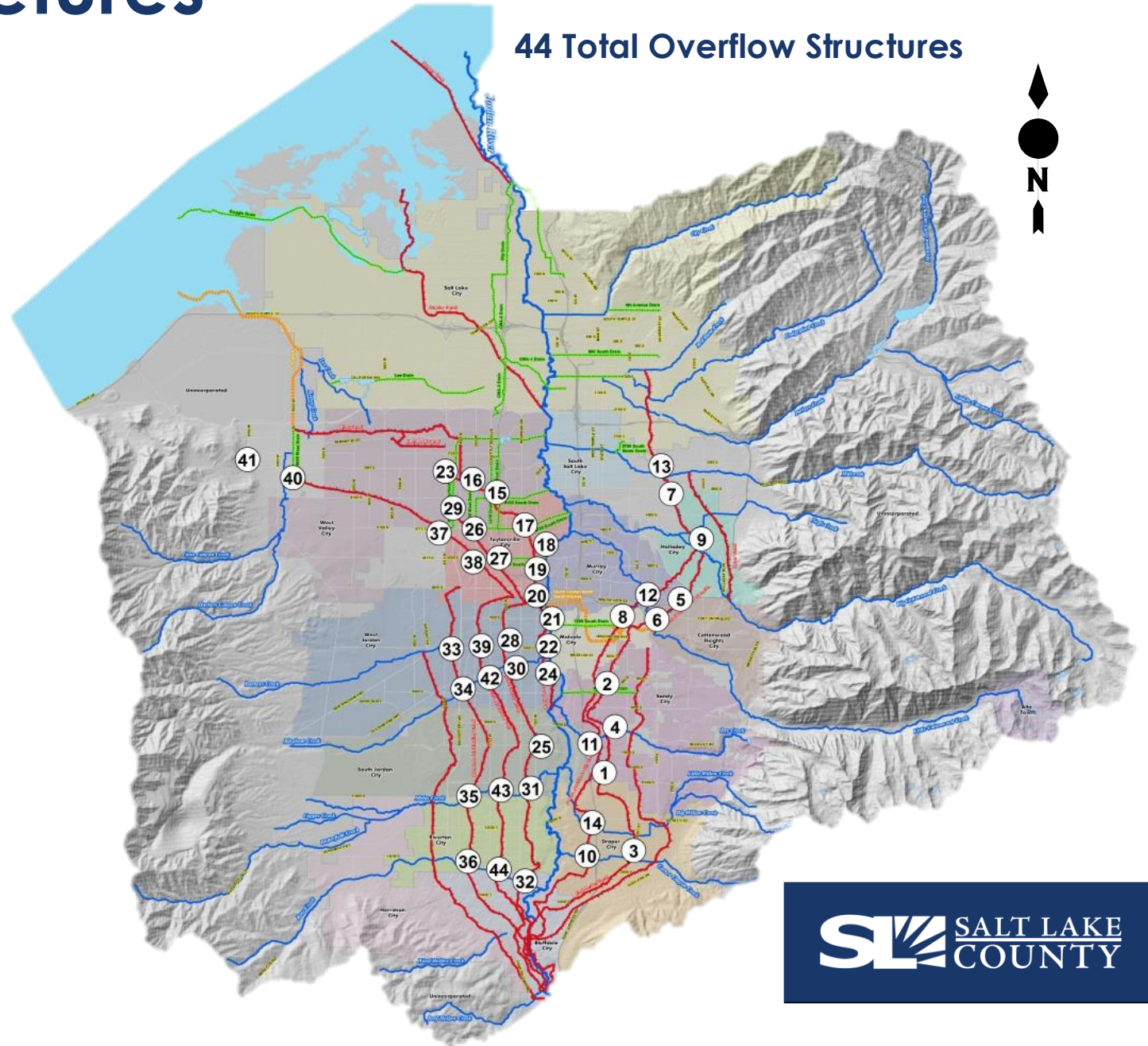




# Canal Overflow Structures

ID	Name	Canal	Location
1	EJ Canal, 11400 S	East Jordan Canal	78 E 11400 S
2	EJ Canal, 9000 S	East Jordan Canal	50 E 9000 S
3	EJ Canal, Corner Canyon Creek	East Jordan Canal	796 E Old English Rd
4	EJ Canal, Dry Creek	East Jordan Canal	10055 S State St
5	EJ Canal, Greenfield Way	East Jordan Canal	6642 S Greenfield Way
6	EJ Canal, Little Cottonwood Creek	East Jordan Canal	7090 S Union Park Ave
7	JSL Canal, 3900 S	Jordan Salt Lake Canal	3855 S Highland Dr
8	JSL Canal, 7200 S	Jordan Salt Lake Canal	472 E Fort Union Blvd
9	JSL Canal, Big Cottonwood Creek	Jordan Salt Lake Canal	5340 S 2155 E
10	JSL Canal, Corner Creek	Jordan Salt Lake Canal	13401 S 200 W
11	JSL Canal, Dry Creek	Jordan Salt Lake Canal	10252 S State St
12	JSL Canal, Little Cottonwood Creek	Jordan Salt Lake Canal	6351 S 900 E
13	JSL Canal, Mill Creek	Jordan Salt Lake Canal	1459 E Murphy Ln
14	JSL Canal, Willow Creek	Jordan Salt Lake Canal	95 W 12300 S
15	NJ Canal, 2700 W	North Jordan Canal	4094 S Constitution Blvd (2700 W)
16	NJ Canal, 3400 W	North Jordan Canal	3809 S Bonniewood Dr (3400 W)
17	NJ Canal, 4700 S	North Jordan Canal	Taylorville Expy 1625 W
18	NJ Canal, 5400 S	North Jordan Canal	5400 S Canal St (1300 W)
19	NJ Canal, 5600 S	North Jordan Canal	5659 S Canal St (1385 W)
20	NJ Canal, 6400 S	North Jordan Canal	1234 W Winchester (6670 S)
21	NJ Canal, 7200 S	North Jordan Canal	7221 S Rural Rd (1065 W)
22	NJ Canal, 7800 S	North Jordan Canal	1095 W 7800 S
23	NJ Canal, Bangerter Hwy	North Jordan Canal	3690 S 3600 W
24	NJ Canal, Old Bingham Creek	North Jordan Canal	7961 S 1300 W
25	SJ Canal, 10400 S	South Jordan Canal	1173 W South Jordan Pkwy (10400 S)
26	SJ Canal, 4700 S	South Jordan Canal	3397 W 4700 S
27	SJ Canal, 5400 S	South Jordan Canal	5422 S Jordan Canal Rd
28	SJ Canal, 7800 S	South Jordan Canal	2248 W 7800 S
29	SJ Canal, Bangerter Hwy	South Jordan Canal	3757 W Clermont Dr (4450 S)
30	SJ Canal, Bingham Creek	South Jordan Canal	8305 S 2200 W
31	SJ Canal, Midas Creek	South Jordan Canal	11709 S Redwood Rd
32	SJ Canal, Rose Creek	South Jordan Canal	1450 W Marketview Dr (14000 S)
33	ULD Canal, 7800 S	Utah Lake Distributing Canal	3855 W 7800 S
34	ULD Canal, Bingham Creek	Utah Lake Distributing Canal	2410 W 9000 S
35	ULD Canal, Midas Creek	Utah Lake Distributing Canal	3321 W 11800 S
36	ULD Canal, Rose Creek	Utah Lake Distributing Canal	3339 W Sanborn Dr
37	USL Canal, 4700 S	Utah Salt Lake Canal	4700 S 4000 W
38	USL Canal, 5400 S	Utah Salt Lake Canal	3105 W 5400 S
39	USL Canal, 7800 S	Utah Salt Lake Canal	3000 W 7800 S
40	USL Canal, 8000 W	Utah Salt Lake Canal	3697 S 8000 W
41	USL Canal, 9200 W	Utah Salt Lake Canal	3276 S 9200 W
42	USL Canal, Bingham Creek	Utah Salt Lake Canal	8524 S 2700 W
43	USL Canal, Midas Creek	Utah Salt Lake Canal	2625 W 11625 S
44	USL Canal, Rose Creek	Utah Salt Lake Canal	13802 S 2200 W

44 Total Overflow Structures



## Utah & Salt Lake Canal

5400 South



## South Jordan Canal

7800 South



## Jordan & Salt Lake City Canal

7200 South



## Utah & Salt Lake Canal

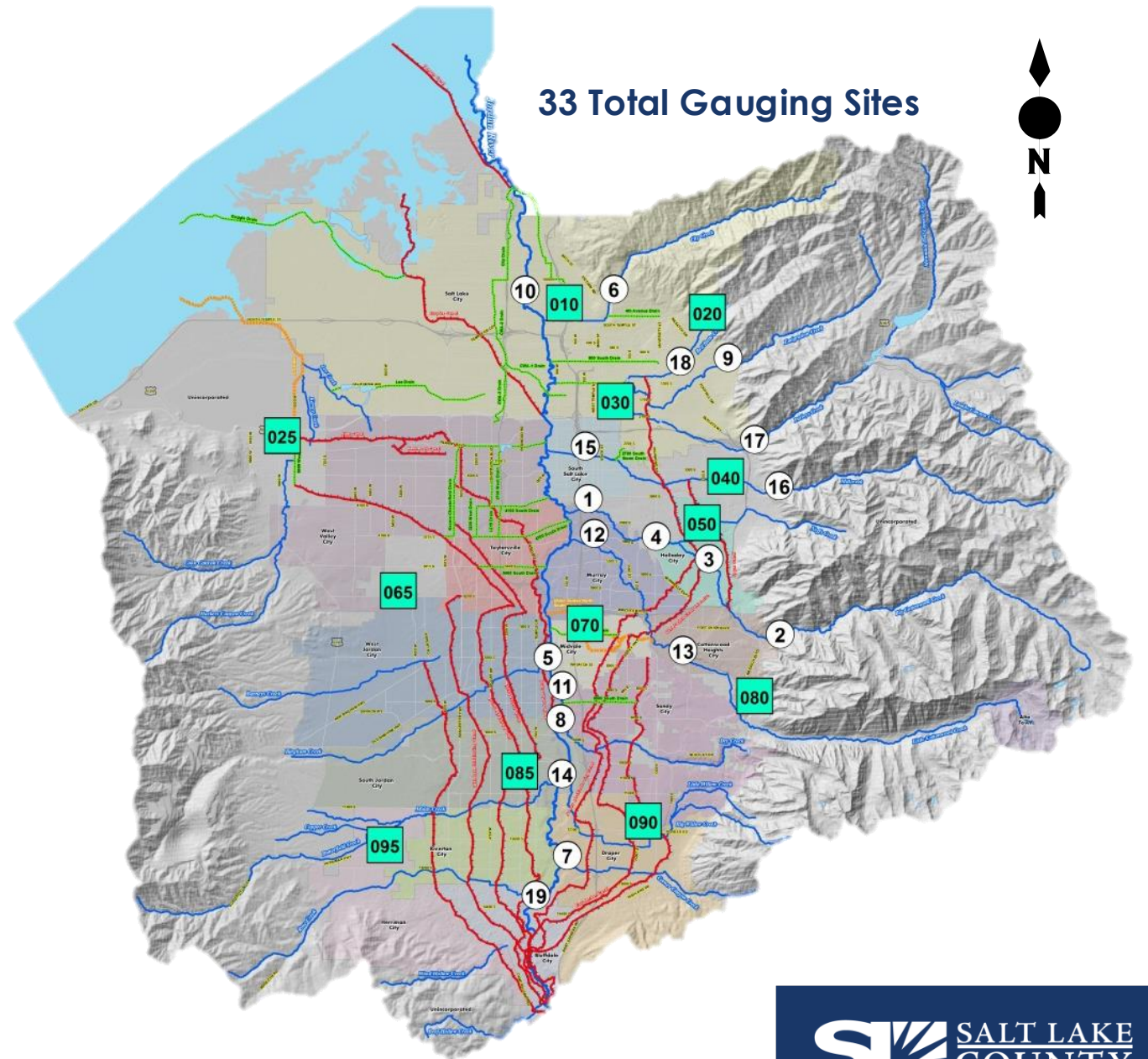
7800 South



# Gauging Sites

ID	Precipitation Gauge Site Name	Location
10	Rose Park Fire Station	285 N 1000 W
20	Red Butte	2200 E Red Butte Canyon Rd (120 S)
25	Magna Fire Station	8600 W 2700 S
30	Salt Lake County Government Center	State Street 2100 S
33	Decker Lake	Decker Lake Dr (1935 W) 2900 S
40	Olympus Cove Fire Station	3600 E 4200 S (Jupiter Dr)
50	Holliday Drain	4800 S Highland Dr
65	Oquirrh Shadows Fire Station	6300 S 5600 W
70	Salt Lake County Public Works Building	7125 S 600 W
72	Crestwood Park	1680 E 7600 S (Siesta Dr)
80	Little Cottonwood Water Treatment Plant	3400 E 9000 S (Danish Rd)
85	South Jordan Equestrian Park	11200 S 2200 W
90	Draper Fire Station	800 E 12300 S
95	Herriman Fire Station	5900 W 13100 S

ID	Stream Gauge Site Name	Location
1	Big Cottonwood Creek at 300 West	4160 S 300 W
2	Big Cottonwood Creek at Canyon Mouth	4200 E 7200 S ( Big Cottonwood Cyn Rd)
3	Big Cottonwood Creek at Cottonwood Lane	5250 S 2300 E (Cottonwood Ln)
4	Big Cottonwood Creek at Creekside Park	4800 S 1460 E (Yorktown Dr)
5	Bingham at Farm	8050 S Temple Dr (1300 W )
6	City Creek Memory Grove	700N 200 E (Canyon Rd)
7	Corner Canyon Creek	13300 S 750 W
8	Dry Creek at Golf Course	10000 S Riverside Dr (800 W)
9	Emigration Creek Rotary Park	2800 E 840 S (Emigration Cyn Rd)
10	Jordan River at 500 North	1650 W 500 N
11	Jordan River at 90th South	800 W 9000 S
12	Little Cottonwood Creek at 300 West	4900 S 300 W
13	Little Cottonwood Creek at Crestwood Park	1720 E 7600 S (Siesta Dr)
14	Midas at Riverfront Park West	11199 S Riverfront Pkwy ( 920 W)
15	Mill Creek 460 West	2970 S 460 W
16	Mill Creek Canyon Mouth	4000 E 3800 S (Mill Creek Cyn Rd)
17	Parley's Creek at Suicide Rock	3400 E 2800 S (East Side Tanner Park)
18	Red Butte Creek 1600 East	1600 E 1050 S (Bonnevieu Dr)
19	Rose at 1300 West	14400 S 1300 W



## Memory Grove, Stream Gauge City Creek



## 300 West, Stream Gauge Little Cottonwood Creek



## Precipitation Gauge 2100 S Government Building

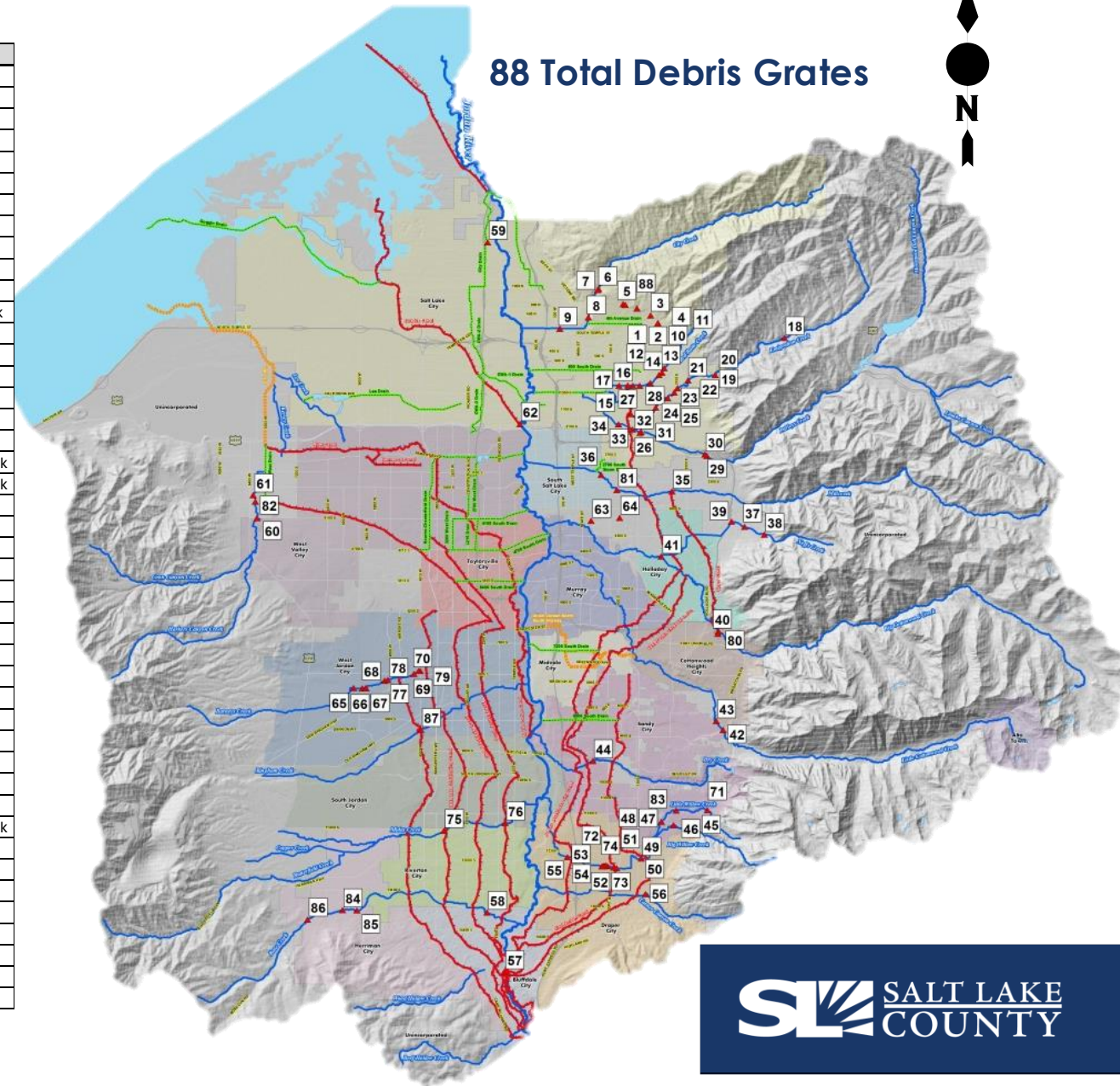


# Debris Grates



ID	Location	Waterway	ID	Location	Waterway
1	Federal Heights Dr 1691 E (Army Corps)	Dry Creek	45	11313 S High Mesa Dr	Big Willow Creek
2	Federal Heights Dr 1691 E (Army Corps)	Dry Creek	46	10000 S Centennial Pkwy	Little Willow Creek
3	Popperton Park Virginia St 402 N (Army Corps)	Spring Gulch Stream	47	1821 E Wasatch Blvd	Big Willow Creek
4	Chandler Dr 1125 E (Army Corps)	Perrys Hollow Stream	48	1653 E Pioneer Rd	Big Willow Creek
5	11th Ave, Ensign Elementary Field (Army Corps)	NA	49	12564 S Forge Wy	Big Willow Creek
6	Canyon Rd 950 N	City Creek	50	12806 S Fort St	Big Willow Creek
7	Memory Grove Canyon Rd 950 N	City Creek	51	12768 S Willow Springs Ln	Big Willow Creek
8	Memory Grove Canyon Rd 315 N	City Creek	52	12744 S Willow Springs Ln	Big Willow Creek
9	North Temple St 400 W	City Creek	53	12742 S Willow Springs Ln	Big Willow Creek
10	Sunnyside Ave 1837 E	Red Butte Creek	54	12756 S Willow Springs Ln	Big Willow Creek
11	Sunnyside Ave 1735 E	Red Butte Creek	55	12300 S 175 W	Big Willow Creek
12	Diestel Rd 861 S	Red Butte Creek	56	Lynn Ballard Ball Park	Corner Canyon Creek
13	Miller Park 1529 E	Red Butte Creek	57	Spend Thrift Dr Iron Horse Blvd	Wood Hollow
14	1111 S 1300 E	Red Butte Creek	58	2048 W 13800 S	Rose Creek
15	LDS Church Yale Ave 1150 E	Red Butte Creek	59	City Drain I-215	Jordan River
16	McClelland St (1040 E) 1096 S	Red Butte Creek	60	8200 W 4100 S	Coon Creek
17	1105 S 900 E	Red Butte Creek	61	3677 S 8300 W	Coon Creek
18	Skycrest Cir 3135 E	Emigration Creek	62	Glendale Golf Course 1630 W 2100 S	Jordan River
19	Rotary Glen Park Kennedy Dr 2903 E	Emigration Creek	63	4150 S 500 E	Big Cottonwood Creek
20	Bonneville Golf Course Wasatch Dr 1140 S	Emigration Creek	64	900 E Hillview Dr	Big Cottonwood Creek
21	Anderson Foothill Library 1135 S 2100 E	Emigration Creek	65	8200 South	Barney Creek
22	2045 E 1300 S	Emigration Creek	66	West Hill Middle School	Barney Creek
23	Browning Ave 1923 E	Emigration Creek	67	Grizzly Road	Barney Creek
24	Wasatch Hollow Park 1631 E 1700 S	Emigration Creek	68	Grizzly Road	Barney Creek
25	Glen Arbor St 1522 E	Emigration Creek	69	7800 South	Barney Creek
26	Blaine Ave 1504 E	Emigration Creek	70	Airport 2	Barney Creek
27	Wilson Ave 1120 E	Emigration Creek	71	Lone Hollow Drive	Big Willow Creek
28	Wilson Ave 1120 E	Emigration Creek	72	Willow Springs Lane	Big Willow Creek
29	Parleys Historic Nature Park 2833 S 2870 E	Parleys Creek	73	Willow Spring Lane	Big Willow Creek
30	Parleys Historic Nature Park 2833 S 2870 E	Parleys Creek	74	Willow Springs Lane	Big Willow Creek
31	Sugarhouse Park West Rd	Parleys Creek	75	Midas Creek Park	Midas Creek
32	Sugarhouse Park West Rd	Parleys Creek	76	South Jordan Canal	Midas Creek
33	Hidden Hollow Wilmington Ave 1229 E	Parleys Creek	77	Amethyst Drive	Barney Creek
34	IHC 2000 S 900 E	Parleys Creek	78	Amethyst Drive	Barney Creek
35	3493 S 2000 E	Mill Creek	79	Airport 2	Barney Creek
36	Mini Park 2 Mansfield Ave 510 E	Mill Creek	80	Walker Mill Drive	Big Cottonwood Creek
37	4251 S Neptune Dr	Neffs Creek	81	Scott Ave 872 East Ben Franklin Park	Mill Creek
38	4403 S Zarahemla Dr	Neffs Creek	82	Danbury Street	Coon Creek
39	Wasatch Blvd 4172 S	Neffs Creek	83	Hidden Valley Club Drive	Big Willow Creek
40	6660 S Big Cottonwood CYN	Big Cottonwood Creek	84	13850 S Crimson Glory CT	Rose Creek
41	4828 S Highland Dr	Big Cottonwood Creek	85	Rose Crest Park 6002 W 13900 S	Rose Creek
42	9500 S Wasatch Blvd, Upper Rails	Little Cottonwood Creek	86	6879 W Rose Canyon Rd	Rose Creek
43	3056 E Cobble Canyon Cir (8960 S), Lower Rails	Little Cottonwood Creek	87	4000 W 9285 S Teton Estates Park	Bingham Creek
44	10042 S 300 E	Dry Creek	88	11th Ave, Ensign Elementary Field (Army Corps)	NA

88 Total Debris Grates



## Wilson Avenue Emigration Creek



## 300 East Big Cottonwood Creek



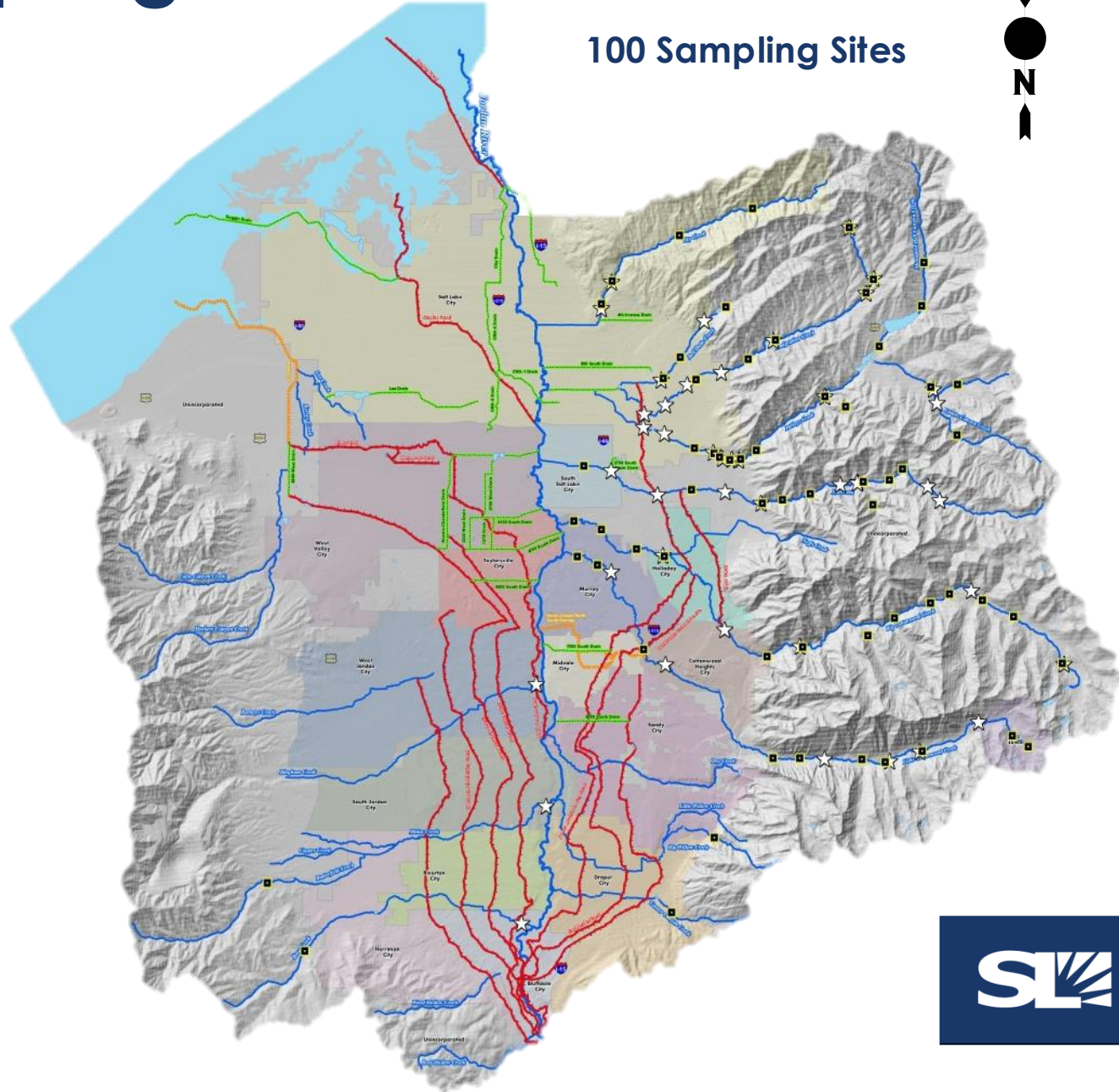
## Highland Circle Big Cottonwood Creek



# Water Quality Sampling Sites

Site Name	Waterway	Sampling	Site Name	Waterway	Sampling
BC_04.73	Big Cottonwood Creek	Ecoli	BC_00.61	Big Cottonwood Creek	Macro
BC_08.83	Big Cottonwood Creek	Ecoli	BC_01.94	Big Cottonwood Creek	Macro
BC_11.99	Big Cottonwood Creek	Ecoli	BC_03.73	Big Cottonwood Creek	Macro
BC_19.23	Big Cottonwood Creek	Ecoli	BC_04.79	Big Cottonwood Creek	Macro
BC_23.92	Big Cottonwood Creek	Ecoli	BC_10.54	Big Cottonwood Creek	Macro
BF_14.44	Butterfield Creek	Ecoli	BC_12.29	Big Cottonwood Creek	Macro
BG_00.22	Big Willow Creek	Ecoli	BC_16.08	Big Cottonwood Creek	Macro
CC_02.62	City Creek	Ecoli	BC_17.51	Big Cottonwood Creek	Macro
CC_03.65	City Creek	Ecoli	BC_18.30	Big Cottonwood Creek	Macro
EM_01.62	Emigration Creek	Ecoli	BC_19.96	Big Cottonwood Creek	Macro
EM_02.54	Emigration Creek	Ecoli	BC_21.24	Big Cottonwood Creek	Macro
EM_03.67	Emigration Creek	Ecoli	BC_23.85	Big Cottonwood Creek	Macro
EM_05.17	Emigration Creek	Ecoli	BF_05.18	Butterfield Creek	Macro
EM_07.79	Emigration Creek	Ecoli	BR_14.39	Big Willow Creek	Macro
EM_11.87	Emigration Creek	Ecoli	CC_02.76	City Creek	Macro
KL_00.21	Kersey Creek	Ecoli	CC_03.68	City Creek	Macro
LB_00.55	Lambs Canyon Creek	Ecoli	CC_07.01	City Creek	Macro
LC_01.98	Little Cottonwood Creek	Ecoli	CC_10.09	City Creek	Macro
LC_06.58	Little Cottonwood Creek	Ecoli	CY_05.15	Corner Canyon Creek	Macro
LC_14.23	Little Cottonwood Creek	Ecoli	EM_04.17	Emigration Creek	Macro
LC_16.72	Little Cottonwood Creek	Ecoli	EM_06.36	Emigration Creek	Macro
LC_17.95	Little Cottonwood Creek	Ecoli	EM_07.87	Emigration Creek	Macro
LC_20.52	Little Cottonwood Creek	Ecoli	EM_11.89	Emigration Creek	Macro
MC_02.56	Mill Creek	Ecoli	KL_00.18	Kersey Creek	Macro
MC_04.56	Mill Creek	Ecoli	LB_01.92	Lambs Canyon Creek	Macro
MC_07.09	Mill Creek	Ecoli	LC_00.52	Little Cottonwood Creek	Macro
MC_08.49	Mill Creek	Ecoli	LC_01.37	Little Cottonwood Creek	Macro
MC_11.70	Mill Creek	Ecoli	LC_05.37	Little Cottonwood Creek	Macro
MC_12.41	Mill Creek	Ecoli	LC_12.33	Little Cottonwood Creek	Macro
MC_15.49	Mill Creek	Ecoli	LC_13.30	Little Cottonwood Creek	Macro
MC_16.17	Mill Creek	Ecoli	LC_15.66	Little Cottonwood Creek	Macro
MS_00.19	Midas Creek	Ecoli	LC_16.55	Little Cottonwood Creek	Macro
PC_00.11	Parleys Creek	Ecoli	LC_18.07	Little Cottonwood Creek	Macro
PC_02.06	Parleys Creek	Ecoli	LC_22.29	Little Cottonwood Creek	Macro
PC_02.88	Parleys Creek	Ecoli	LC_23.00	Little Cottonwood Creek	Macro
PC_04.76	Parleys Creek	Ecoli	LW_02.10	Little Willow Creek	Macro
PC_05.13	Parleys Creek	Ecoli	MC_01.57	Mill Creek	Macro
PC_05.53	Parleys Creek	Ecoli	MC_05.82	Mill Creek	Macro
PC_05.79	Parleys Creek	Ecoli	MC_08.55	Mill Creek	Macro
PC_14.40	Parleys Creek	Ecoli	MC_09.31	Mill Creek	Macro
RB_01.65	Red Butte Creek	Ecoli	MC_10.46	Mill Creek	Macro
RB_04.21	Red Butte Creek	Ecoli	MC_12.62	Mill Creek	Macro
RC_00.41	Red Butte Creek	Ecoli	MC_13.59	Mill Creek	Macro
			MC_14.22	Mill Creek	Macro
			PC_04.11	Parleys Creek	Macro
			PC_04.81	Parleys Creek	Macro
			PC_05.05	Parleys Creek	Macro
			PC_05.45	Parleys Creek	Macro
			PC_05.89	Parleys Creek	Macro
			PC_06.52	Parleys Creek	Macro
			PC_14.49	Parleys Creek	Macro
			PC_15.51	Parleys Creek	Macro
			RB_01.75	Red Butte Creek	Macro
			RB_02.68	Red Butte Creek	Macro
			RB_05.19	Red Butte Creek	Macro
			RC_09.82	Red Butte Creek	Macro

100 Sampling Sites



# Surplus Canal



## USACE Recognized Levee Army Corps requirements

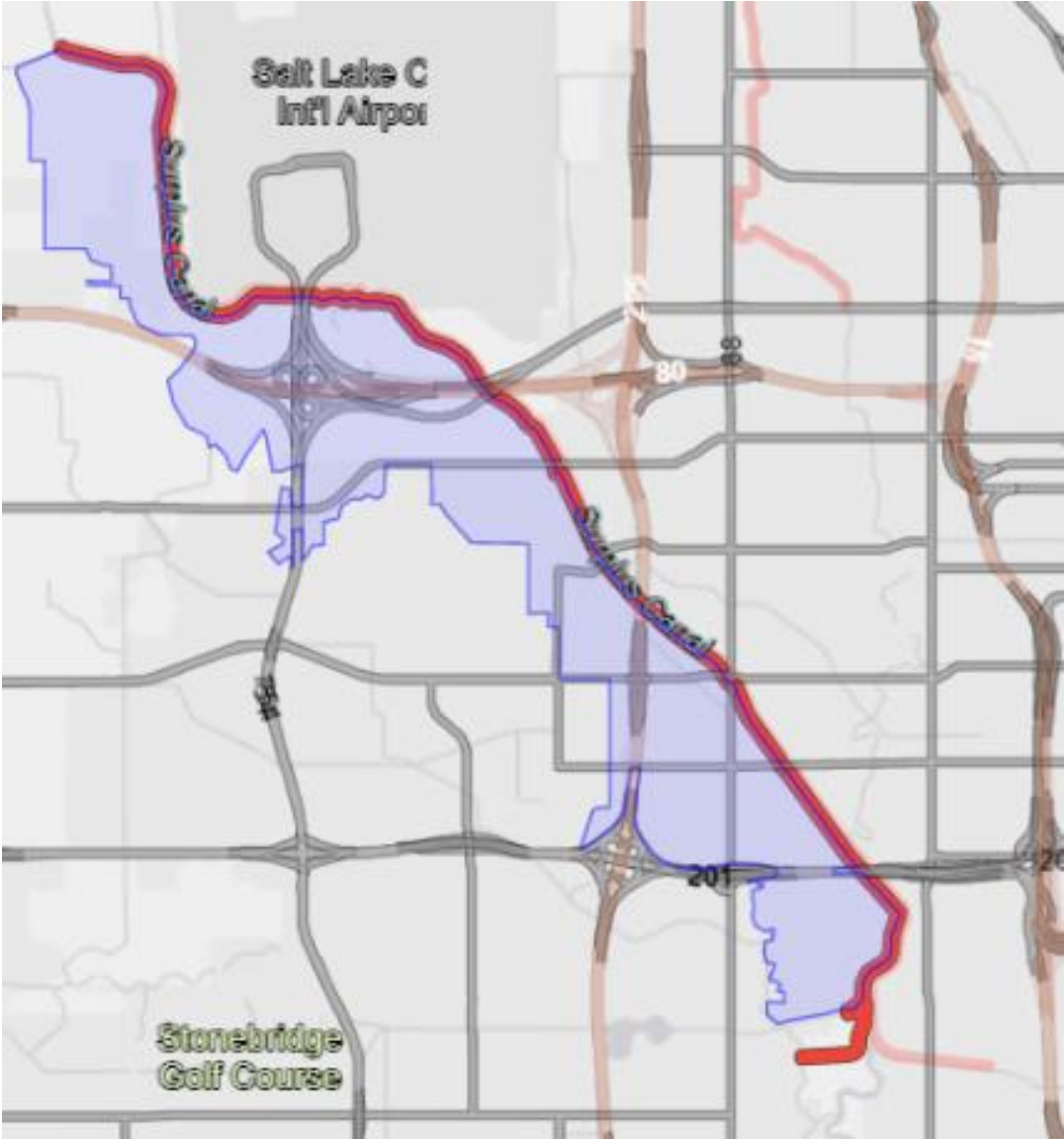
- 18 miles of levee
  - 9 miles of West levee
  - 9 miles of East levee



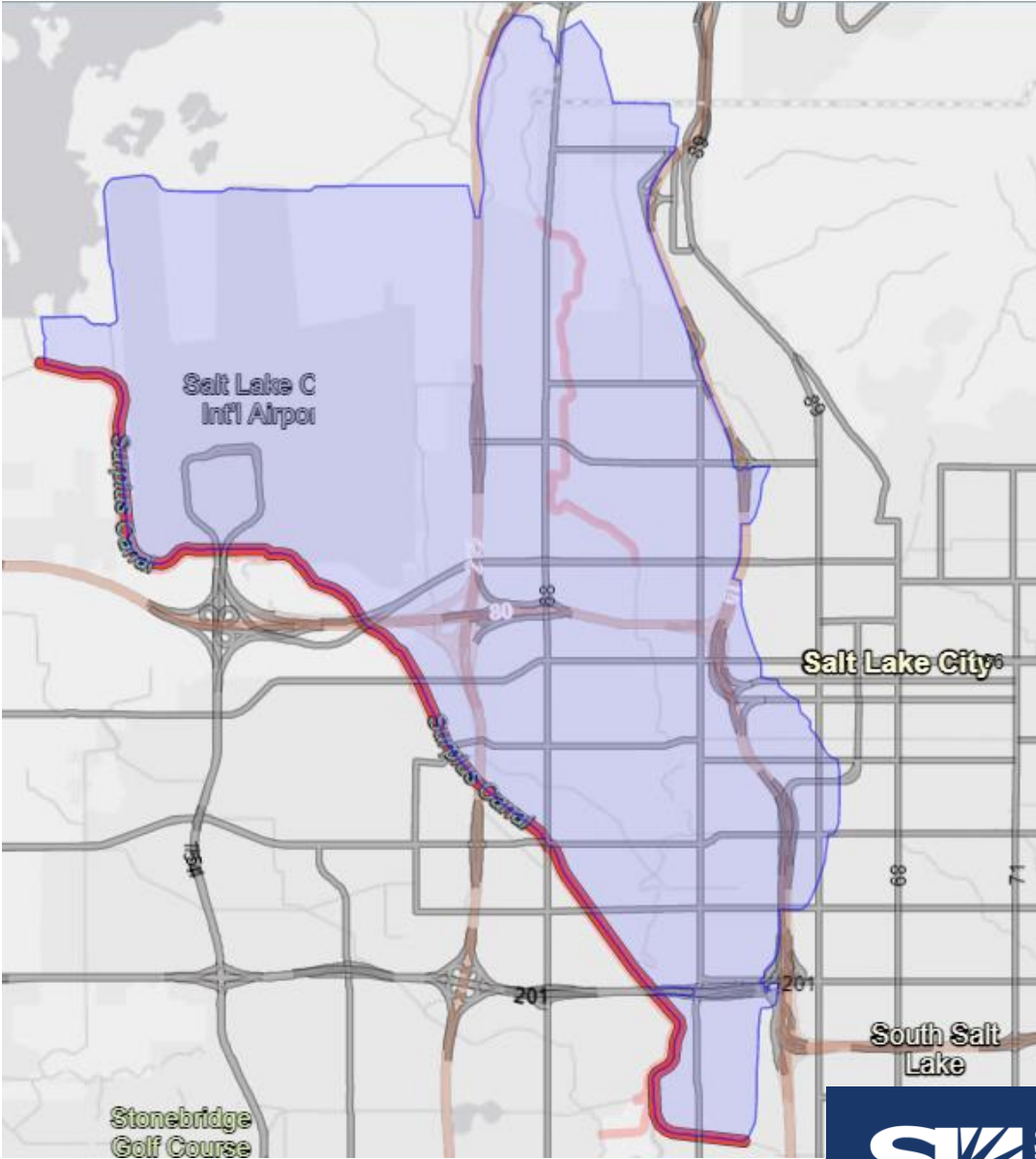


# Surplus Canal

Surplus Canal (West) Left Bank Levee



Surplus Canal (East) Right Bank Levee



# Update Flood Control Contra Requirement

Program	Description
Personnel (3% reduction)	<b>(\$129,411)</b> <ul style="list-style-type: none"><li>• Delayed hire of Associate Director position.</li><li>• Surplus Canal project and other projects being delayed.</li></ul>
Operations (2% reduction)	<b>(\$96,628)</b> <ul style="list-style-type: none"><li>• Software used will be outdated without necessary updates<ul style="list-style-type: none"><li>○ Aquarius – Stream and Flow Gauging Software</li><li>○ VueWorks – Work Order Software</li></ul></li><li>• Largest reduction coming from stream maintenance</li></ul>
<b>Total Contra Requirement</b>	<b>(\$226,039)</b>

**Flood Control is on track to meet Contra requirement.**

Thank You  
Any  
Questions?

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# Fleet Management



# Interesting Facts

- Fleet is self funded
  - Over 50% of revenue comes from contracts
- Annual gallons Fuel
  - Gas and Diesel - 1,300,000 gallons
  - CNG – 500,000 gas gallon equivalent
- Miles of travel maintained
  - 12,500,000 per year (26 round trips to the moon)

# Interesting Facts

- Labor rates
  - Light Shop industry average      \$192.14    Fleet rate    \$115.00
  - Heavy Shop industry average      \$188.17    Fleet rate    \$126.50
- 46 FTE
- Number of vehicles
  - 1,300 County owned vehicles and large equipment
  - 700 County owned small equipment and components
  - 1,000 contract vehicles and equipment
- Governed by Fleet Board

# Guiding Principles

- Provide honest, responsive, effective and efficient fleet services to our customers
- Maximize the return on investment (ROI), and the long-term value of the fleet investment
- Provide high quality services
- Know and respond to the desires, needs, and requirements of fleet customers

# What We Do

- Purchase and Disposal of Vehicles
- Fuel
- Maintenance
- Repair
- Motor Pool
- Accidents
- Analysis



# Vehicle Replacement

- Optimize Replacement Cycle
- 15 Point Program
- Replacement Fund
  - Inflation
  - Salvage values
  - Annual levy



# Fuel

- Fleet Fuel Card - WEX
- Fleet Maintained Facilities
  - Midvale
  - Land Fill
  - Transfer Station
  - 2100 South
  - Parks & Rec

# Maintenance and Repair

- Scheduled Maintenance
  - Preventive Maintenance (PM)
  - Annual inspection
- Repair Work
  - Our shops and retail shops (Sublet)

# Motor Pool

- Limited Services



# Accidents

- Investigation
- Who Pays – Self Insured
- Subrogation



# Reports & Analysis

- Monthly reports posted on web page
  - Usage reports
  - Billing reports
  - Levy reports
- Other analysis on request

# Sustainability

- Electrification of Fleet
  - 19 all electric vehicles
  - 1 plug-in hybrid
  - 131 hybrid vehicles
- Metal Recycling
  - 117,000 pounds last year

# Challenges

- Staffing
  - Market driven Technician shortage