CITY OF SPOKANE VALLEY Request for Council Action

Meeting Date: 1	March 29, 2016	Department Directo	r Approval: ⊠
Check all that ap	pply : ☐ consent ☐ old business ☐ information ☒ admin. report		olic hearing ecutive session
AGENDA ITEM 1	TITLE: Comprehensive Plan Updat	e specific to water rights and	d water districts.
GOVERNING LE	GISLATION: RCW 36.70.A (Growth	h Management)	
PREVIOUS COU	NCIL ACTION TAKEN: None		
inventory of water	As part of the City's Comprehener supply services. This presentation size (population and acreage), v	on reviews pertinent water of	district data and
	ed a power point presentation that ner. Also provided is a supplementation water district.		•
OPTIONS: N/A			
RECOMMENDE	D ACTION OR MOTION: N/A		
BUDGET/FINAN	CIAL IMPACTS: None		
STAFF CONTAC	T: Henry Allen, Development Eng Adam Jackson, Assistant Eng		
ATTACHMENTS	· PowerPoint Presentation		

Supplemental Packet: 1-page district breakdown sheets for each district.



Informational Review: Water Purveyors of Spokane Valley

March 29, 2016

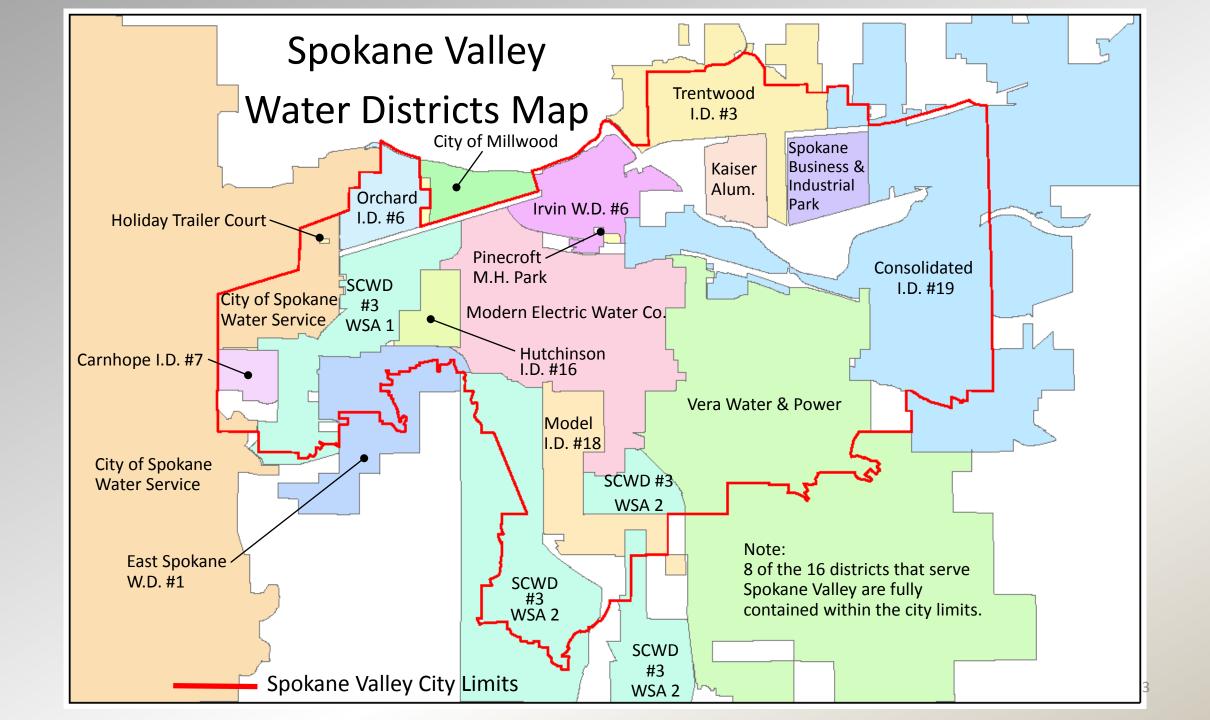
COMMUNITY & ECONOMIC DEVELOPMENT

The Water Districts (16 Total)



- Carnhope Irrigation District #7
- City of Spokane Water Service
- Consolidated Irrigation District #19
- East Spokane Water District #1
- Holiday Trailer Court
- Hutchinson Irrigation District #16
- Irvin Water District #6
- Kaiser Aluminum Trentwood

- Model Irrigation District #18
- Modern Electric Water Company
- Orchard Avenue Irrigation District #6
- Pinecroft Mobile Home Park
- Spokane Business & Industrial Park
- Spokane County Water District #3 (WSA 1 & 2)
- Trentwood Irrigation District #3
- Vera Water & Power





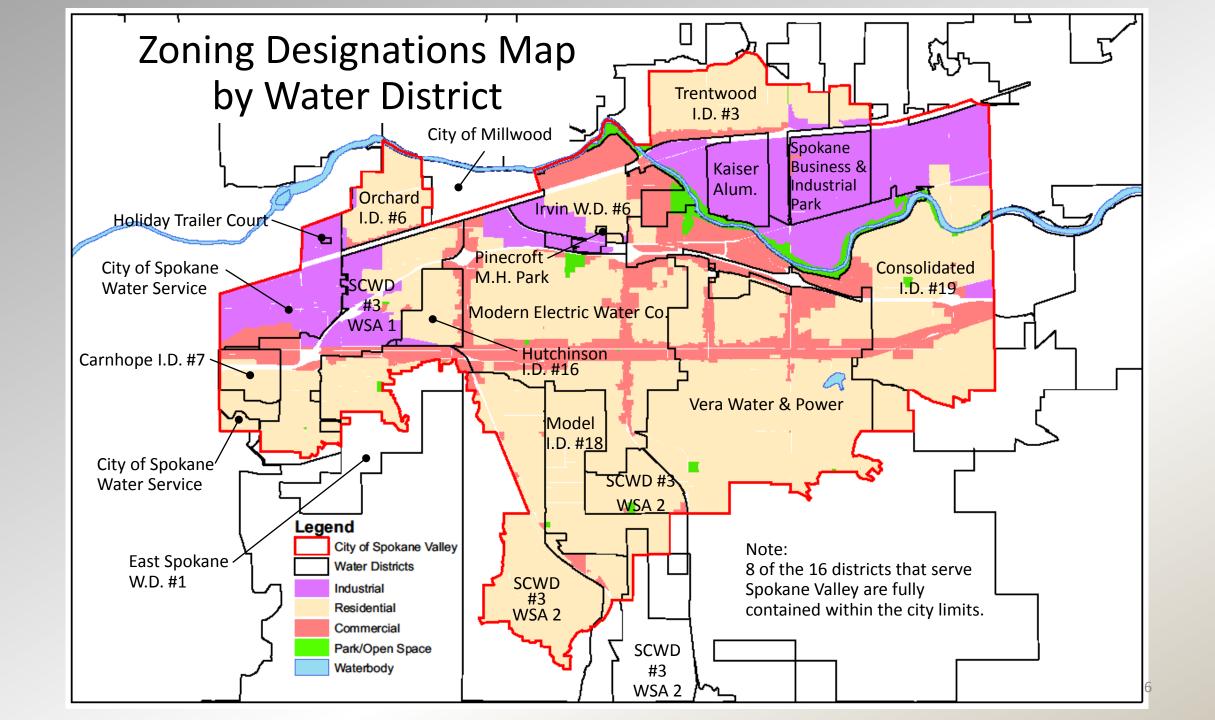
Residential Service Population

City of Spokane Water Service	227,505	Orchard Avenue I.D. #6	2,983
Vera Water & Power	24,962	Hutchinson I.D #16	2,180
Consolidated I.D. #19	22,315	Carnhope I.D. #7	1,750
Modern Electric Water Company	18,560	Pinecroft Mobile Home Park	248
Spokane County W.D. #3 (WSA #1 & #2)	17,095	Holiday Trailer Court	12
Model I.D. #18	6,067	Kaiser Aluminum - Trentwood	0
Trentwood I.D. #3	4,188	Spokane Business & Ind. Park	0
Irvin W.D. #6	4,084	TOTALS (Incl. City of Spokane)	335,999
East Spokane W.D. #1	4,050	TOTALS (Excl. City of Spokane)	108,494
		2015 OFM COSV Population Est.:	93,340

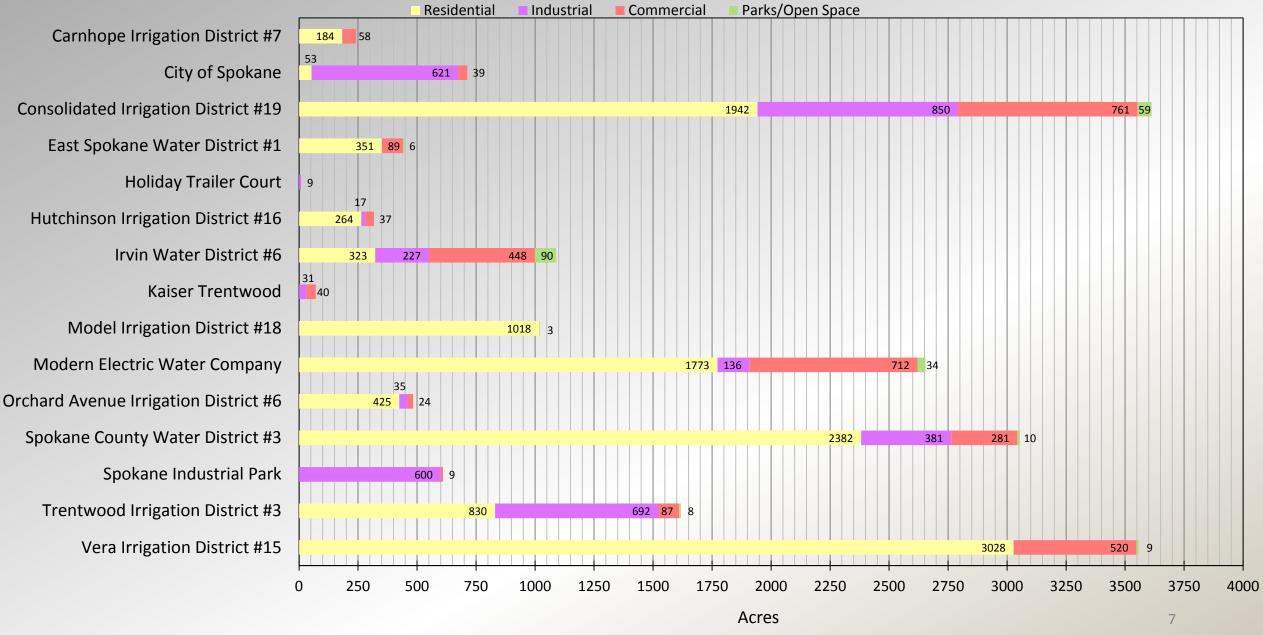


Area Within City Limits (By Acres)

Water District Name	Area In City Limits	Total Service Area	% In City Limits	Water District Name	Acres In City Limits	Total Acres	% In City Limits
Consolidated I.D. #19	4,132	12,433	33%	East Spokane W.D. #1	602	1,443	42%
Vera W & P	3,949	10,586	37%	Orchard Ave. I.D. #6	555	563	99%
SCWD #3 (WSA 1 & 2)	3,641	6,056	60%	Kaiser Aluminum	491	491	100%
Modern EWCo.	3,309	3,309	100%	Hutchinson I.D. #16	371	371	100%
Trentwood I.D. #3	1,263	1,978	64%	Carnhope I.D. #7	277	277	100%
Model I.D. #18	1,011	1,050	96%	Pinecroft MH Park	15	15	100%
City of Spokane	960	48,220	2%	Holiday Trailer Ct.	5	5	100%
Irvin W.D. #6	949	949	100%	Totals (Incl. Spokane)	22,154	88,370	25%
Spokane B & I Park	625	625	100%	Totals (Excl. Spokane)	21,194	40,150	53%



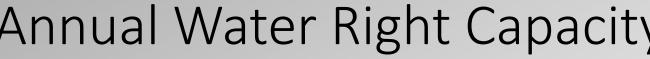
Water District Zoning Designations Within City Limits (By Acres)



Monthly Residential Water Rate Comparison Spokane Assumes 1 residence consumes 25,000 gallons per month



City of Spokane (Service to COSV)	\$58.65	Modern Electric Water Company	\$22.80
East Spokane W.D. #1	\$43.75	Vera Water & Power	\$20.13
Carnhope I.D. #7	\$35.33	Irvin W.D. #6	\$18.19
Orchard Avenue I.D. #6	\$35.29	Median	\$27.00
Trentwood I.D. #3	\$29.28	Average	\$30.51
Spokane County W.D. #3 (WSA #1 & #2)	\$27.01		<u> </u>
Hutchinson I.D #16	\$27.00	Holiday Trailer Court	No Charge
Model I.D. #18	\$25.68	Kaiser Aluminum - Trentwood	No Charge
Consolidated I.D. #19	\$23.00	Spokane BIP and Pinecroft MH Park are n	ot available.



10,446

6,456

1,768

22,410

1,536

4,115

2,210

3,161

1,150



(Ac-Ft)

147,570

5,420

29,061

235,303

87,733

7,582

22,644

(Ac-Ft)

65,077

1,552

6,301

110,302

45,225

Holiday Trailer Ct. and Pinecroft MH Park are not available.

% Water

Right

Used

44%

29%

22%

47%

52%

Annual	Water	Righ	nt Cap	pacity	Spo	kane Val
District Name	2014 Water Pumped	Water Right	% Water Right	Water District Name	2014 Water Pumped	Water Right

City of Spokane

Modern EWCo.

Trentwood I.D. #3

Totals (Incl. Spokane)

Totals (Excl. Spokane)

Spokane B & I Park

Kaiser Aluminum

Water

(Ac-Ft)

10,466

5,469

1,391

13,892

872

2,202

1,086

1,479

515

Vera W & P

Irvin W.D. #6

Model I.D. #18

SCWD #3 (WSA 1 & 2)

Consolidated I.D. #19

East Spokane W.D. #1

Hutchinson I.D. #16

Orchard Ave. I.D. #6

Carnhope I.D. #7

(Ac-Ft) Used

100%

85%

79%

62%

57%

54%

49%

47%

45%

City Land Capacity vs. Water Rights: Residential Zoning Designations Only



Water District	for New Connections	% Land Capacity Used	% Water Right Used	Water District	for New Connections	% Land Capacity Used	% Water Right Used
Vera W & P	1,400	87%	100%	Carnhope I.D. #7	45	92%	45%
SCWD #3	654	91%	85%	City of Spokane	12	N/A	44%
Irvin W.D. #6	306	87%	79%	Trentwood I.D. #3	466	75%	29%
Consolidated I.D. #19	1,650	83%	62%	Modern EWCo.	1,073	87%	22%
East Spokane W.D. #1	166	91%	57%	TOTALS	6,012	88%	52%*
Model I.D. #18	112	96%	54%	(*Ex. W.R. Capacity	% excludes City	of Spokane	e)
Hutchinson I.D. #16	88	90%	49%	DOH does not allow	/ SBIP, Kaiser, Ho	oliday nor P	inecroft
Orchard Ave. I.D. #6	40	97%	47%	to add any new con	nections; they a	re exclude	d.



QUESTIONS?

Carnhope Irrigation District #7



DOH Water System ID:	11250	Inaugural Year:	1921
DOH Residential Service Population:	1,750	Water System Plan Year:	2008
Service Area Size (in Acres)		DOH Service Connections:	
Area within City limits:	277	Single Family:	383
Total Service Area:	277	Multi-Family:	68
Percentage of Area in City limits:	100%	Commercial/Industrial:	35
		DOH Total Service Connections:	486
Total Water Pumped vs. Water Rights A	Allotmen	t	
Calendar Year for Pumped Volume Below:	2014		
Total Water Pumped by District (ac-ft):	515		
DOE Annual Water Right Allotment (ac-ft):	1,150		
% of Water Right Consumed by District:	45%		
1 Equivalent Residential Unit (gal/day)	802	(taken from Water System Plan)	
Land Capacity Based on Existing R- and	MF- Zon	ing Designations Within COSV L	imits
(Data per Land Quantity Analysis Methodology	for Spoka	ne County (LQA))	
Ex. Number of R- and MF- Connections:	451	(1 dwelling unit (DU) = 1 connection)	
Capacity for Additional Dwelling Units:	45	(assume full build-out per ex. zoning	
Max. Number of R- and MF- Connections:	496	Capacity for Addt'l Pop. Growth (p	pl): 112
Ex. Connections as % of Maximum Capacity:	91%	(based on LQA ratio for DUs to	(laa

System	Infrastr	ucture	Details

System Deficiencies/Captial Improvements

Distribution System Leakage (DSL) is high. Ongoing
replacement/upgrading of all service meters (on 10-yr
cycles) and in-need areas of the distribution system.
Replace 2-port hydrants with 3-port hydrants.

Existing System Components

2 well pump stations, 0 reservoirs, 7 miles of water lines

Monthly Cost for 25,000 Gallons of Water	\$35.33	Distribution System Leakage-DSL:	43.6%
Rate Schedule Type: Declining block rate		(value is a 3-yr running average)	

City of Spokane Water Service



DOH Water System ID:	83100K	Inaugural Year:	1883
DOH Residential Service Population:	227,505	Water System Plan Year:	2013

Service Area Size (in Acres)		DOH Service Connections:	
Area within City limits:	960	Single Family (602 within COSV):	70,078
Total Service Area:	48220	Multi-Family:	4,267
Percentage of Area in City limits:	2%	2% Commercial/Industrial:	10,906
		DOH Total Service Connections:	85,251

Calendar Year for Pumped Volume Below: 2013

carefular real for ramped volume below.	2013
Total Water Pumped by District (ac-ft):	65,077
DOE Annual Water Right Allotment (ac-ft):	147,570
% of Water Right Consumed by District:	44%

1 Equivalent Residential Unit (gal/day) 359 (taken from Water System Plan)

Land Capacity Based on Existing R- and MF- Zoning Designations Within COSV Limits

(Data per Land Quantity Analysis Methodology for Spokane County (LQA))

Ex. Number of R- and MF- Connections:	602	(1 dwelling unit (DU) = 1 connection)
Capacity for Additional Dwelling Units:	12	
Max. Number of R- and MF- Connections:	614	Capacity for Addt'l Pop. Growth (ppl): 31
Ex. Connections as % of Maximum Capacity:	98%	(based on LQA ratio for DUs to ppl)

System Infrastructure Details

System Deficiencies/Captial Improvements	Existing System Components
Aging infrastructure and demand growth creates the	7 well stations, 14 wells, 27 well pumps, 25
need to rehabilitate/replace wells, pump houses, and	booster pump stations, 72 booster pumps,
reservoirs. New growth requires new reservoirs and	34 reservoirs, and >1,000 miles of water lines.
pump houses to serve new areas. Also, aging water lines	
conintually need replaced.	

Monthly Cost for 25,000 Gallons of Water	\$ 58.65	Distribution System Leakage-DSL:	18.5%
Rate Schedule Type: Inclining block rate		(value is a 3-yr running average)	

Consolidated Irrigation District #19



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DOH Water System ID:	10221	Inaugural Year:	1966
DOH Residential Service Population:	22,315	Water System Plan Year:	2009

Service Area Size (in Acres)		DOH Service Connections:	
Area within City limits:	4,132	Single Family:	7,921
Total Service Area:	12,433	Multi-Family:	1,468
Percentage of Area in City limits:	33%	Commercial/Industrial:	220
		DOH Total Service Connections:	9,609

Total Water Pumped vs. Water Rights Allotment		
Calendar Year for Pumped Volume Below:	2014	
Total Water Pumped by District (ac-ft):	13,892	
DOE Annual Water Right Allotment (ac-ft):	22,410	
% of Water Right Consumed by District:	62%	
1 Equivalent Residential Unit (gal/day)	1 449	(taken from Water System Plan)

Land Capacity Based on Existing R- and MF- Zoning Designations Within COSV Limits

(Data per Land Quantity Analysis Methodology for Spokane County (LQA))

Ex. Number of R- and MF- Connections:	9,389	(1 dwelling unit (DU) = 1 connection)
Capacity for Additional Dwelling Units:	1,650	
Max. Number of R- and MF- Connections:	11,039	Capacity for Addt'l Pop. Growth (ppl): 3,965
Ex. Connections as % of Maximum Capacity:	85%	(based on LQA ratio for DUs to ppl)

System Infrastructure Details

System Deficiencies/Captial Improvements	Existing System Components
"North" system is not treated for disinfection. Some reservoirs may not be able to meet future demand. Ongoing upsizing of mainlines req'd. New pressure zones to improve system. Rehab wells and provide backup power for emergency/redundancy.	34 wells at 11 well sites, 8 pressure zones, 15 reservoirs, 3 booster stations, and 168 miles of water mains.

Monthly Cost for 25,000 Gallons of Water	\$ 23.00	Distribution System Leakage-DSL:	15.9%
Rate Schedule Type: Decl. (Summer) & Incl.	Winter)	(value is a 3-yr running average)	

East Spokane Water District #1



216506	Inaugural Year:	1917
4,050	Water System Plan Year:	2007
	DOH Service Connections:	
602	Single Family:	1,176
1,443	Multi-Family:	381
42%	Commercial/Industrial:	102
	DOH Total Service Connections:	1,659
Allotment		
2014		
872	Notes: Water pumped excludes 42 ac-ft pur	
1,536	from SCWD #3 via intertie. 1,536 ac-ft includes 500 ft of water taken from MEWCo via intertie agreeme	
57%		
560	(taken from Water System Plan)	
	4,050 602 1,443 42% Allotment 2014 872 1,536	4,050 DOH Service Connections: 602 Single Family: 1,443 Multi-Family: Commercial/Industrial: DOH Total Service Connections: Allotment 2014 872 Notes: Water pumped excludes 42 ac-ft pur from SCWD #3 via intertie. 1,536 ac-ft includent of to water taken from MEWCo via intertie and the service of the

Land Capacity Based on Existing R- and MF- Zoning Designations Within COSV Limits

(Data per Land Quantity Analysis Methodology for Spokane County (LQA))

Ex. Number of R- and MF- Connections:	1,557
Capacity for Additional Dwelling Units:	166
Max. Number of R- and MF- Connections:	1,723
Ex. Connections as % of Maximum Capacity:	90%

(1 dwelling unit (DU) = 1 connection)

Capacity for Addt'l Pop. Growth (ppl):

Capacity for Addt'l Pop. Growth (ppl): 340 (based on LQA ratio for DUs to ppl)

System Infrastructure Details

System	Deficiencies/	Captial	Improvements

Storage capacity is a limiting factor in order to meet growth demands. Booster pump upgrades, along with a new intertie with Modern, is proposed to help alleviate pumping demand on the system and its water rights. Also, ongoing mainline replacement is required.

Existing System Components

7 wells with 9 pumps, 5 pressure zones with 4 booster stations, 3 reservoirs. Length of mainlines not available.

Monthly Cost for 25,000 Gallons of Water		\$ 43.75 Distribution System Leakage-DSL:		24.2%
Rate Schedule Type: Flat Overage rate			(value is a 3-yr running average)	

Holiday Trailer Court



DOH Water System ID:	33679H	Inaugural Year:	1970
DOH Residential Service Population: 12		Water System Plan Year:	
Service Area Size (in Acres)		DOH Service Connections:	
Area within City limits:	5	Single Family:	7
Total Service Area:	5	Multi-Family:	- 4
Percentage of Area in City limits:	100%	Commercial/Industrial:	
		DOH Total Service Connections:	7
Total Water Pumped vs. Water Rights A	llotment		
Calendar Year for Pumped Volume Below:	-	DOH DOES NOT REQUIRE FILES TO BE O	ON-FILE
Total Water Pumped by District (ac-ft):		FOR WATER SYSTEMS THAT DO NOT PI	
DOE Annual Water Right Allotment (ac-ft):		GROWING. CONSUMPTION DATA IS NO	TC
% of Water Right Consumed by District:		AVAILABLE.	
Land Capacity Based on Existing R- and (Data per Land Quantity Analysis Methodology) Ex. Number of R- and MF- Connections: Capacity for Additional Dwelling Units: Max. Number of R- and MF- Connections: Ex. Connections as % of Maximum Capacity:			pl): 0
System Infrastructura Dataila			
System Infrastructure Details		F. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
This is a residential well from 1960s or 1970s that has been split to provide service to 6 mobile homes in addition to the original house. The owner of the well does not charge the residents any consumption charge. There is no available consumption or allottmetment data.		1 well only (unmetered)	

Hutchinson Irrigation District #16



DOH Water System ID:	35100J	00J Inaugural Year:		
DOH Residential Service Population:	2,180			
Service Area Size (in Acres)		DOH Service Connections:		
Area within City limits:	371	Single Family:	763	
Total Service Area:	371	Multi-Family:	109	
Percentage of Area in City limits:	100%	Commercial/Industrial:	17	
		DOH Total Service Connections:	889	
Total Water Pumped vs. Water Rights A	llotment			
Calendar Year for Pumped Volume Below:	2014			
Total Water Pumped by District (ac-ft):	1,086	36		
DOE Annual Water Right Allotment (ac-ft):	2,210	210		
% of Water Right Consumed by District:	49%			
1 Equivalent Residential Unit (gal/day)	754	754 (taken from Water System Plan)		
Land Capacity Based on Existing R- and	MF- Zoni	ng Designations Within COSV Li	mits	
(Data per Land Quantity Analysis Methodology				
Ex. Number of R- and MF- Connections:	872	(1 dwelling unit (DU) = 1 connection)		
Capacity for Additional Dwelling Units:	88			
Max. Number of R- and MF- Connections:	960	Capacity for Addt'l Pop. Growth (p	pl): 219	
Ex. Connections as % of Maximum Capacity:	91%			

System Infrastructure Details			
System Deficiencies/Captial Improvements	Existing System Components		
Portions of distribution system are old and undersized and need replaced. Ongoing service meter replacement (on 10-	2 wells with 4 well pumps, 1 reservoir, and		

Portions of distribution system are old and undersized and	2 wells v
need replaced. Ongoing service meter replacement (on 10-	12 miles
year cycles). These improvements should help with system	
loss (leakage).	

2 wells with 4 well pumps, 1 reservoir, ar	d
12 miles of water mains.	

Monthly Cost for 25,000 Gallons of Water	\$ 27.00	Distribution System Leakage-DSL:	45.8%
Rate Schedule Type: Flat Overage rate		(value is a 3-yr running average)	



Irvin Water District #6

DOH Water System ID:	36050	50 Inaugural Year:		
DOH Residential Service Population:	4,084	084 Water System Plan Year:		
Service Area Size (in Acres)		DOH Service Connections:		
Area within City limits:	949	Single Family:	824	
Total Service Area:	949	Multi-Family:	1,038	
Percentage of Area in City limits:	100%	Commercial/Industrial:	164	
		DOH Total Service Connections:	2,026	
Total Water Pumped vs. Water Rights A	Allotment			
Calendar Year for Pumped Volume Below:	2014			
Total Water Pumped by District (ac-ft):	1,391			
DOE Annual Water Right Allotment (ac-ft):	1,768			
% of Water Right Consumed by District:	79%			
1 Equivalent Residential Unit (gal/day)	449	49 (taken from Water System Plan)		
Land Capacity Based on Existing R- and	MF- Zonir	ng Designations Within COSV Li	mits	
(Data per Land Quantity Analysis Methodology	for Spokan	County (LQA))		
Ex. Number of R- and MF- Connections:	1,862	862 (1 dwelling unit (DU) = 1 connection)		
Capacity for Additional Dwelling Units:	306	A straight of refer the straight and an arrangement		
Max. Number of R- and MF- Connections:	2,168	Capacity for Addt'l Pop. Growth (p	ppl): 615	

System	Infrastructure	Details
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System D	Deficiencies,	Captial Im	provements
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Ex. Connections as % of Maximum Capacity:

Ongoing maintenance of system facilities. Long term upgrades and expansion to the distribution system is required for growth. A new office building and/or storage building is long term goal.

Existing System Components

4 well pump stations and 2 reservoirs with 23 miles of water lines.

(based on LQA ratio for DUs to ppl)

Monthly Cost for 25,000 Gallons of Water	\$ 18.19	Distribution System Leakage-DSL:	9.8%
Rate Schedule Type: Flat Overage rate		(value is a 3-yr running average)	

86%

Kaiser Aluminum -Trentwood



DOH Water System ID:	37450B	Inaugural Year:
DOH Non-Residential Service Pop.:	804	Water System Plan Year:
Service Area Size (in Acres)		DOH Service Connections:
Area within City limits:	491	Single Family:
Total Service Area:	491	Multi-Family:
Percentage of Area in City limits:	100%	Commercial/Industrial:
		DOH Total Service Connections:
Total Water Pumped vs. Water Rights A	Allotment	
Calendar Year for Pumped Volume Below:	2015	DOH DOES NOT REQUIRE FILES TO BE ON-
Total Water Pumped by District (ac-ft):	6,539	HAND FOR WATER SYSTEMS THAT DO NOT
DOE Annual Water Right Allotment (ac-ft):	22,644	PLAN ON GROWING.
% of Water Right Consumed by District:	29%	
Land Capacity Based on Existing R- and (Data per Land Quantity Analysis Methodology Ex. Number of R- and MF- Connections: Capacity for Additional Dwelling Units: Max. Number of R- and MF- Connections: Ex. Connections as % of Maximum Capacity:		
System Infrastructure Details		
System Deficiencies/Captial Improvements		Existing System Components
Ongoing repair and rehabilitation of pumps and water lines.		2 active wells (and 1 inactive well) serving 2,100 LF of water lines. NOTE: Water rights are divided for two uses: 324 ac-ft for domestic use and 22,320 ac-ft for industrial use.
Monthly Cost for 25,000 Gallons of Water Rate Schedule Type: N/A	No Charge	Distribution System Leakage-DSL: N/A
nate schedule Type, N/A		(value is a 3-yr running average)

Model Irrigation District #18



DOH Water System ID:	55550D	Inaugural Year:	1910
DOH Residential Service Population:	6,067	Water System Plan Year:	2011
Service Area Size (in Acres)	V-177	DOH Service Connections:	10.10
Area within City limits:	1,011	Single Family:	2,286
Total Service Area:	1,050	Multi-Family:	240
Percentage of Area in City limits:	96%	Commercial/Industrial:	6
		DOH Total Service Connections:	2,532
Total Water Pumped vs. Water Rights	Allotment		7
Calendar Year for Pumped Volume Below:	2014		
Total Water Pumped by District (ac-ft):	2,202		
DOE Annual Water Right Allotment (ac-ft):	4,115	A	
% of Water Right Consumed by District:	54%		
1 Equivalent Residential Unit (gal/day)	631	(taken from Water System Plan)	
Land Capacity Based on Existing R- and	d MF- Zoni	ng Designations Within COSV L	mits
(Data per Land Quantity Analysis Methodolog			
Ex. Number of R- and MF- Connections:	2,526	(1 dwelling unit (DU) = 1 connection)
Capacity for Additional Dwelling Units:	112	A comment of the state of the s	
Max. Number of R- and MF- Connections:	2,638	Capacity for Addt'l Pop. Growth (p	pl): 251
	12/12/17	^ 보고 있는 사람들이 많아 있다면 보고 있다. 이 사람들이 있는 것은	4000 M

System	Infrastructure	Details
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System Deficiencies/	Captial	Improvements
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Ex. Connections as % of Maximum Capacity:

8 miles of system piping to be replaced over the next 20 years: budgeted >\$100,000 on mainline replacement annually. Reservoir capacity is below DOH standard: automatic emergency intertie is available and additional pump capacity is available to meet high flow demands.

Existing System Components

6 wells with 1 booster pump station, 2 reservoirs and 36 miles of water lines.

(based on LQA ratio for DUs to ppl)

Monthly Cost for 25,000 Gallons of Water	\$ 25.68	Distribution System Leakage-DSL:	4.3%
Rate Schedule Type: Inclining block rate		(value is a 3-yr running average)	

96%

Modern Electric Water Company



DOH Water System ID:	556008	Inaugural Year:	1905
DOH Residential Service Population:	18,560	Water System Plan Year:	2013
Service Area Size (in Acres)		DOH Service Connections:	-
Area within City limits:	3,309	Single Family:	4,087
Total Service Area:	3,309	Multi-Family:	3,351
Percentage of Area in City limits:	100%	Commercial/Industrial:	824
		DOH Total Service Connections:	8,262
Total Water Pumped vs. Water Rights	Allotment		
Calendar Year for Pumped Volume Below:	2015		
Total Water Pumped by District (ac-ft):	6,301		
DOE Annual Water Right Allotment (ac-ft):	29,061		
% of Water Right Consumed by District:	22%		
1 Equivalent Residential Unit (gal/day)	531	(taken from Water System Plan)	

MF- Zoni	ng Designations Within COSV Limits
for Spokan	e County (LQA))
7,438	(1 dwelling unit (DU) = 1 connection)
1,073	Mary A. Mary Co. S. Control St. Vo.
8,511	Capacity for Addt'l Pop. Growth (ppl): 2,324
87%	(based on LQA ratio for DUs to ppl)
	for Spokan 7,438 1,073 8,511

System Infrastructure Details	
System Deficiencies/Captial Improvements	Existing System Components
Replace 1 well, rehabilitate 1 well, improve various sections of the distribution system to meet fire and peak demand flows. Ongoing meter and distribution network repair/replacement is also required.	11 wells at 8 diffferent well sites, 2 pressure reducing valves for the 2 pressure zones, 3 reservoirs, and 100 miles of water lines.

Monthly Cost for 25,000 Gallons of Water	\$ 22.80	Distribution System Leakage-DSL:	8.0%
Rate Schedule Type: Flat Overage rate	T	(value is a 3-yr running average)	

Orchard Avenue Irrigation District #6

has leak-issues and consists of cast-iron pipe that needs

replaced. About 200 service meters need removed from

basements and replaced at propertly lines.



roughly 21 miles of water lines.

DOH Water System ID:	64000 E	Inaugural Year:	1920
DOH Residential Service Population:	2,983	Water System Plan Year:	201
Service Area Size (in Acres)		DOH Service Connections:	
Area within City limits:	555	Single Family:	1,237
Total Service Area:	563	Multi-Family:	18
Percentage of Area in City limits:	99%	Commercial/Industrial:	4
		DOH Total Service Connections:	1,259
Total Water Pumped vs. Water Rights A	Allotment		
Calendar Year for Pumped Volume Below:	2014		
Total Water Pumped by District (ac-ft):	1,479		
DOE Annual Water Right Allotment (ac-ft):	3,161		
% of Water Right Consumed by District:	47%		
1 Equivalent Residential Unit (gal/day)	483	(taken from Water System Plan)	
Land Capacity Based on Existing R- and	MF- Zoni	ng Designations Within COSV Li	mits
(Data per Land Quantity Analysis Methodology			
Ex. Number of R- and MF- Connections:	1,255	(1 dwelling unit (DU) = 1 connection)
Capacity for Additional Dwelling Units:	40	of a real county areas along a content of a county	
Max. Number of R- and MF- Connections:	1,295	Capacity for Addt'l Pop. Growth (p	pl): 100
Ex. Connections as % of Maximum Capacity:	97%	(based on LQA ratio for DUs to	ppl)
System Infrastructure Details			
System Deficiencies/Captial Improvements		Existing System Components	
The system operates with little redundancy due to wells and no storage tanks. 25% of the distribution		2 wells with 5 well pumps that serve pressure zone. There are 0 reservoir	

Monthly Cost for 25,000 Gallons of Water	\$ 35.29	Distribution System Leakage-DSL:	13.4%
Rate Schedule Type: Flat Overage rate		(value is a 3-yr running average)	

Pinecroft Mobile Park



DOH Water System ID:	67623 F	Inaugural Year:	1970	
DOH Residential Service Pop.:	248	Water System Plan Year:	N/A	
Service Area Size (in Acres)		DOH Service Connections:		
Area within City limits:	15	Single Family:	139	
Total Service Area:	15	Multi-Family:	1.0	
Percentage of Area in City limits:	100%	Commercial/Industrial:	-	
		DOH Total Service Connections:	139	
Total Water Pumped vs. Water Rights	Allotment			
Calendar Year for Pumped Volume Below:	140	DOH DOES NOT REQUIRE FILES TO BE	ON-FILE	
Total Water Pumped by District (ac-ft):	5-	FOR WATER SYSTEMS THAT DO NOT I	NOT PLAN ON	
DOE Annual Water Right Allotment (ac-ft):		GROWING. CONSUMPTION DATA IS N		
% of Water Right Consumed by District:		AVAILABLE.		
Land Capacity Based on Existing R- and (Data per Land Quantity Analysis Methodology Ex. Number of R- and MF- Connections: Capacity for Additional Dwelling Units:				
Max. Number of R- and MF- Connections:	139	Capacity for Addt'l Pop. Growth (ppl): 0	
Ex. Connections as % of Maximum Capacity:	100%	(based on LQA ratio for DUs to	ppl)	
System Infrastructure Details				
System Deficiencies/Captial Improvements		Existing System Components		
Monthly Cost for 25 000 Gallens of Water	ė	Distribution System Lealure DSL		
Monthly Cost for 25,000 Gallons of Water	\$ -	Distribution System Leakage-DSL:	-	
Rate Schedule Type:		(value is a 3-yr running average)		

Spokane Business and Industrial Park



DOH Water System ID:	83027K	Inaugural Year:	1942	
DOH Non-Residential Service Pop.:	3,500	Water System Plan Year:	1989	
Service Area Size (in Acres)		DOH Service Connections:		
Area within City limits:	625	Single Family:	1.0	
Total Service Area:	625	Multi-Family:	- 72	
Percentage of Area in City limits:	100%	Commercial/Industrial:	252	
		DOH Total Service Connections:	252	
Total Water Pumped vs. Water Rights A	llotment			
Calendar Year for Pumped Volume Below:	-	DOH DOES NOT REQUIRE FILES TO B	E ON-	
Total Water Pumped by District (ac-ft):		HAND FOR WATER SYSTEMS THAT D		
DOE Annual Water Right Allotment (ac-ft):	7,582	PLAN ON GROWING. CONSUMPTION	N DATA	
% of Water Right Consumed by District:	-	IS NOT AVAILABLE.		
Land Capacity Based on Existing R- and Data per Land Quantity Analysis Methodology		e County (LQA))		
Ex. Number of R- and MF- Connections:		(1 dwelling unit (DU) = 1 connection)		
Capacity for Additional Dwelling Units:	-			
Max. Number of R- and MF- Connections:	-	Capacity for Addt'l Pop. Growth (
Ex. Connections as % of Maximum Capacity:			ppl): 0	
	-	(based on LQA ratio for DUs to		
System Infrastructure Details		(based on LQA ratio for DUs to		
System Infrastructure Details System Deficiencies/Captial Improvements				
		(based on LQA ratio for DUs to Existing System Components Per 1989 WSP on file at DOH:		
		Existing System Components	ppl)	
		Existing System Components Per 1989 WSP on file at DOH: 4 wells, 2 reservoirs and 11 miles of	ppl)	
	\$ -	Existing System Components Per 1989 WSP on file at DOH: 4 wells, 2 reservoirs and 11 miles of	ppl)	

Spokane County Water District #3 (WSA 1 + 2)



611 (taken as weighted average of WSA 1 + 2)

Existing System Components

93350 &

DOH Water System ID:	93351	Inaugural Year:	1986
DOH Residential Service Population:	17,095	Water System Plan Year:	2011

Service Area Size (in Acres)		DOH Service Connections:	113
Area within City limits:	3,641	Single Family:	4,852
Total Service Area:	6,056	Multi-Family:	1,986
Percentage of Area in City limits:	60%	Commercial/Industrial:	318
		DOH Total Service Connections:	7,156
Total Water Pumped vs. Water Rights A	Allotment		
Calendar Year for Pumped Volume Below:	2014		
Total Water Pumped by District (ac-ft):	5,469	(Water pumped excludes 42 ac-ft so	ld to
DOE Annual Water Right Allotment (ac-ft):	6,456	ESWD #1 via intertie - this is rare.)	

Land Capacity Based on Existing R- and MF- Zoning Designations Within COSV Limits

(Data per Land Quantity Analysis Methodology for Spokane County (LQA))

Ex. Number of R- and MF- Connections:	6,838	(1 dwelling unit (DU) = 1 connection)
Capacity for Additional Dwelling Units:	654	
Max. Number of R- and MF- Connections:	7,492	Capacity for Addt'l Pop. Growth (ppl): 1,491
Ex. Connections as % of Maximum Capacity:	91%	(based on LQA ratio for DUs to ppl)

System Infrastructure Details

stations are required.

System Deficiencies/Captial Improvements

1 Equivalent Residential Unit (gal/day)

	- Andrew Mary Company of the Company
Ongoing transmission line replacement, providing an intertie	8 active wells (4 unactive wells also owned
between Water Service Areas 1 and 2, upgrade WSA #1 well	by district) with 6 pump stations and 16
pump, raplace WSA #2 reservoir and booster pump. To	pumps, 6 reservoirs and roughly 200 miles of
accommodate growth, 2 new reservoirs and 3 new booster	water lines system wide

Monthly Cost for 25,000 Gallons of Water	\$ 27.01	Distribution System Leakage-DSL:	9.8%
Rate Schedule Type: Inclining block rate		WSA #1: 14.4% WSA #2: 7.3%	

Trentwood Irrigation District #3



DOH Water System ID:	89250 C	Inaugural Year:	1918
DOH Residential Service Population:	4,188	Water System Plan Year:	2009
Service Area Size (in Acres)		DOH Service Connections:	
Area within City limits:	1,263	Single Family:	1,460
Total Service Area:	1,978	Multi-Family:	267
Percentage of Area in City limits:	64%	Commercial/Industrial:	162
		DOH Total Service Connections:	1,889
Total Water Pumped vs. Water Rights /	Allotment		
Calendar Year for Pumped Volume Below:	2014		
Total Water Pumped by District (ac-ft):	1,552		
DOE Annual Water Right Allotment (ac-ft):	5,420		
% of Water Right Consumed by District:	29%		
1 Equivalent Residential Unit (gal/day)	421		
Land Capacity Based on Existing R- and	MF- Zoni	ng Designations Within COSV L	imits
(Data per Land Quantity Analysis Methodology	for Spokar	e County (LQA))	
Ex. Number of R- and MF- Connections:	1,727	(1 dwelling unit (DU) = 1 connection)
Capacity for Additional Dwelling Units:	466		2.7
Max. Number of R- and MF- Connections:	2,193	Capacity for Addt'l Pop. Growth (p	pl): 1,161
Ex. Connections as % of Maximum Capacity:	79%	(based on LQA ratio for DUs to	ppl)

System Infrastructure Details				
System Deficiencies/Captial Improvements	Existing System Components			
No treatment is provided at the well sources, and ongoing system mainline replacement is required.	4 well pump stations, 3 booster stations, 3 pressure zones, 4 reservoirs, 2 emergency back up wells, and 35 miles of water lines.			

Monthly Cost for 25,000 Gallons of Water	\$ 29.28	Distribution System Leakage-DSL:	13.8%
Rate Schedule Type: Flat Overage rate		(value is approx. & based on 4 year v	/alues)



Vera Water & Power

DOH Water System ID:	914505	Inaugural Year:	1908
DOH Residential Service Population:	24,962	Water System Plan Year:	2015
Service Area Size (in Acres)		DOH Service Connections:	
Area within City limits:	3,949	Single Family:	7,121
Total Service Area:	10,586	Multi-Family:	2,874
Percentage of Area in City limits:	37%	Commercial/Industrial:	408
		DOH Total Service Connections:	10,403
Total Water Pumped vs. Water Rights	Allotment	447	
Calendar Year for Pumped Volume Below:	2014		
Total Water Pumped by District (ac-ft):	10,466		
DOE Annual Water Right Allotment (ac-ft):	10,446		
% of Water Right Consumed by District:	100%		
1 Equivalent Residential Unit (gal/day)	711	(taken as weighted average of WSA	1+2)

Land Capacity Based on Existing R- and MF- Zoning Designations Within COSV Limits

(Data per Land Quantity Analysis Methodology for Spokane County (LQA))

Ex. Number of R- and MF- Connections:	9,995	(1 dwelling unit (DU) = 1 connection)
Capacity for Additional Dwelling Units:	1,400	
Max. Number of R- and MF- Connections:	11,395	Capacity for Addt'l Pop. Growth (ppl): 3,328
Ex. Connections as % of Maximum Capacity:	88%	(based on LQA ratio for DUs to ppl)

System Infrastructure Details

System Deficiencies/Captial Improvements	Existing System Components		
Various areas of main line need upsized. An overflow	9 wells with 6 booster stations and 5		
collection & piping sytem project for the 4 MG reservoir is	reservoirs, along with 145 miles of water		
proposed.	lines.		

3 Distribution System Leakage-DSL: 12.2%		
(value is a 3-yr running average)		

All Water Districts Serving Spokane Valley



DOH Water System ID:	Inaugural Year:			
Residential Service Pop. (Excl. Spokane):	108,494	Water System Plan Year:		
Service Area Size (Acres, Excl. City of Spokane)		DOH Service Connections:		
Area within City limits:	21,194	Single Family (Incl. 602 Spokane): 32,8		
Total Service Area:	40,150	Multi-Family: 11,		
Percentage of Area in City limits: 53		Commercial/Industrial: 2		
		DOH Total Service Connections:	47,175	
Total Water Pumped vs. Water Rights	Allotment			
Calendar Year for Pumped Volume Below:				
Total Water Pumped by District (ac-ft):	45,225	Total Water Pumped vs. Water Rights Allotmen Excludes:		
DOE Annual Water Right Allotment (ac-ft):	87,733			
% of Water Right Consumed by All Districts:	52%	COS, SBIP, Kaiser, Pinecroft, & Holiday		
1 Equivalent Residential Unit (gal/day)	870	(Weighted average of reporting districts-excludes COS Kaiser, SBIP, Pinecroft, Holiday)		
Land Capacity Based on Existing R- and	MF- Zoni	ng Designations Within COSV L	imits	
(Data per Land Quantity Analysis Methodology	for Spokar	e County (LQA))		
Ex. Number of R- and MF- Connections:	44,658	(1 dwelling unit (DU) = 1 connection)		
Capacity for Additional Dwelling Units:	6,012			
Max. Number of R- and MF- Connections:	50,670			
Ex. Connections as % of Maximum Capacity:	88%			
System Infrastructure Details				
System Deficiencies/Captial Improvements		Existing System Components		
		Control of the contro		

Monthly	Cost fo	r 25,000	Gallon	s of	Water
		,			