

Ballard CSO Topline

Q1. How often do you have problems with groundwater, such as natural springs or water seeping into your basement or crawl space?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Never	504	64.1	65.5	65.5
	1 - 2 times a year	139	17.7	18.1	83.6
	3 - 4 times a year	54	6.9	7.0	90.6
	5 - 6 times a year	26	3.3	3.4	94.0
	7 or more times a year	46	5.9	6.0	100.0
	Total	769	97.8	100.0	
Missing	0	17	2.2		
Total		786	100.0		

Q2. Do you have any problems with surface water on your property?

		Responses	Percent of Cases
		N	
	No	660	85.8%
	Yes, water flows onto my property from the street	7	0.9%
	Yes, water flows onto my property from the alley	18	2.3%
	Yes, water flows onto my property from the adjacent property	35	4.6%
	Yes, Yes, water ponds on my property	45	5.9%
	Other	34	4.4%
Total		799	103.9%

Multiple responses allowed; percents may add up to more than 100. N=769

Q3. Other than the sewer system, do you have any drainage systems on your property?

	Responses	Percent of Cases
	N	
No	405	54.1%
I don't know	103	13.8%
Yes, I have a detention pipe (holds stormwater until the rain stops and it can be absorbed)	17	2.3%
Yes, have a French drain(trench covered w/ gravel/rock or containing a perforated pipe that channels stormwater away	133	17.8%
Yes, I have rock pockets (a pocket of loose rocks at or below grade that collects stormwater for it to be absorbed)	62	8.3%
Yes, I have another type of drainage system	106	14.2%
Rain garden	45	6.0%
Rain barrel	11	1.5%
Downspouts into garden/yard	10	1.3%
Total	892	119.1%

Multiple responses allowed; percents may add up to more than 100.
N=749

Q4. Are your roof downspouts connected to the sewer system?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No	371	47.2	48.9	48.9
	Yes	242	30.8	31.9	80.8
	Don't know	146	18.6	19.2	100.0
	Total	759	96.6	100.0	
Missing	0	23	2.9		
	System	4	.5		
	Total	27	3.4		
Total		786	100.0		

Q5. Are you aware of any natural springs on your property or on your block?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No	698	88.8	92.7	92.7
	Yes	55	7.0	7.3	100.0
	Total	753	95.8	100.0	
Missing	0	29	3.7		
	System	4	.5		
	Total	33	4.2		
Total		786	100.0		

Q7. What are two favorite things about your neighborhood or street that you would like to still be there for your children and grandchildren?

		Responses	Percent of Cases
		N	
Community		135	22.3%
Older, smaller homes / single-family		142	23.5%
Calm ambiance / quiet		53	8.8%
Small businesses		18	3.0%
Walkability		140	23.1%
Safety		27	4.5%
Not crowded		15	2.5%
Proximity to parks		140	23.1%
Landscape / gardens / trees		270	44.6%
Parking		55	9.1%
Traffic control / speed control		37	6.1%
Bus routes		8	1.3%
Clean streets		16	2.6%
Street lights		6	1.0%
Other		22	3.6%
Total		1084	179.2%

Multiple responses allowed; percents may add up to more than 100.
N=605

Q8. What are the two most important improvements you would like to see to your neighborhood?

	Responses	Percent of Cases
	N	
Better roads / sidewalks	71	12.8%
Street sweeping	22	4.0%
Less congestion	31	5.6%
Less multiplexes	52	9.4%
More landscaping / gardens	159	28.8%
More frequent bus services	24	4.3%
Powerlines moved underground	44	8.0%
Increased community activities	13	2.4%
Less use of harsh chemicals / pesticides	3	0.5%
Upgraded infrastructure	82	14.8%
Improved traffic / speed control	181	32.7%
More lighting in alleys / streets	35	6.3%
Increased safety / security	42	7.6%
More parking	43	7.8%
Better street drainage	42	7.6%
Affordable housing	4	0.7%
Other	72	13.0%
Total	920	166.4%

Multiple responses allowed; percents may add up to more than 100.
N=553

Q9. Are there any specific areas in your neighborhood you think would benefit from slower traffic, better visibility for drivers, or shorter pedestrian crossing distances?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No	248	31.6	39.4	39.4
	Yes	381	48.5	60.6	100.0
	Total	629	80.0	100.0	
Missing	0	138	17.6		
	System	19	2.4		
	Total	157	20.0		
Total		786	100.0		

Q10. Knowing what you know now about natural drainage systems, how much do you support a project to construct natural drainage systems in the parking strips in your neighborhood?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Very unsupportive	157	20.0	20.5	20.5
	Somewhat unsupportive	93	11.8	12.2	32.7
	Neutral (neither supportive or unsupportive)	128	16.3	16.7	49.4
	Somewhat supportive	178	22.6	23.3	72.7
	Very supportive	209	26.6	27.3	100.0
	Total	765	97.3	100.0	
Missing	0	17	2.2		
	System	4	.5		
	Total	21	2.7		
Total		786	100.0		

Q11. What aspects of this effort would you like to know more about?

	Responses	Percent of Cases
	N	
The sewage overflow problem in Ballard	239	40.1%
What natural drainage systems are and how they work	207	34.7%
Why natural drainage systems are being considered as a strategy to prevent sewage overflows in Ballard	224	37.6%
The proposed project timeline and opportunities for public involvement	259	43.5%
The process for deciding where natural drainage systems would be built	354	59.4%
What natural drainage systems would look like	266	44.6%
RainWise(a program that offers rebates to property owners for installing a rain garden/cistern on private property)	188	31.5%
Other	82	13.8%
Total	1819	305.2%

Multiple responses allowed; percents may add up to more than 100. N=596

Q12. What is the best way to keep you informed about this effort?

	Responses	Percent of Cases
	N	
Direct mail	452	61.6%
Community meeting	85	11.6%
Email	303	41.3%
Website	153	20.8%
My Ballard	235	32.0%
Ballard News Tribune	97	13.2%
Phone	16	2.2%
Door hanger	79	10.8%
Facebook/Twitter	25	3.4%
Project signs placed in neighborhood	168	22.9%
Project representative visit	23	3.1%
Other	13	1.8%
Total	1649	224.7%

Multiple responses allowed; percents may add up to more than 100. N=734

Q13. How would you like to be involved

	Responses	Percent of Cases
	N	
Attend community meetings and workshops	236	68.8%
Host a small gathering of neighbors to discuss project design elements	26	7.6%
Request a presentation to your block watch group, neighborhood association, etc.	72	21.0%
Meet periodically with SPU project representatives to review siting and design concepts	68	19.8%
Other	52	15.2%
Total	454	132.4%

Multiple responses allowed; percents may add up to more than 100. N=343

Q14. Would you like to be included on the project email distribution list?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No	360	45.8	60.7	60.7
	Yes	233	29.6	39.3	100.0
	Total	593	75.4		
Missing	0	186	23.7		
	System	7	.9		
	Total	193	24.6		
Total		786	100.0		

Q15. How many years have you lived in your neighborhood?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Less than 2 years	40	5.1	5.2	5.2
	2 - 5 years	106	13.5	13.8	19.0
	6 - 10 years	146	18.6	19.0	38.1
	11 - 20 years	206	26.2	26.9	64.9
	More than 20 years	269	34.2	35.1	100.0
	Total	767	97.6	100.0	
Missing	0	13	1.7		
	System	6	.8		
	Total	19	2.4		
Total		786	100.0		

Q16. Do you own or rent the place in which you live?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Own	692	88.0	90.8	90.8
	Rent	70	8.9	9.2	100.0
	Total	762	96.9	100.0	
Missing	0	17	2.2		
	System	7	.9		
	Total	24	3.1		
Total		786	100.0		

Q17. What is your gender

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Male	301	38.3	52.1	52.1
	Female	277	35.2	47.9	100.0
	Total	578	73.5	100.0	
Missing	0	29	3.7		
	System	179	22.8		
	Total	208	26.5		
Total		786	100.0		

Q18. Which of the following categories includes your age?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	25 to 34	50	6.4	6.6	6.6
	35 to 44	180	22.9	23.8	30.4
	45 to 54	188	23.9	24.8	55.2
	55 to 64	169	21.5	22.3	77.5
	65 to 74	111	14.1	14.7	92.2
	75 and older	59	7.5	7.8	100.0
	Total	757	96.3	100.0	
Missing	0	23	2.9		
	System	6	.8		
	Total	29	3.7		
Total		786	100.0		

Q19. Do you have any children living at home with you?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No	478	60.8	63.1	63.1
	Yes	280	35.6	36.9	100.0
	Total	758	96.4	100.0	
Missing	0	21	2.7		
	System	7	.9		
	Total	28	3.6		
Total		786	100.0		

Q20. Are you from a Hispanic, Latino, or Spanish-speaking background?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No	714	90.8	97.0	97.0
	Yes	22	2.8	3.0	100.0
	Total	736	93.6	100.0	
Missing	0	37	4.7		
	System	13	1.7		
	Total	50	6.4		
Total		786	100.0		

Q21. What race would you classify yourself as?

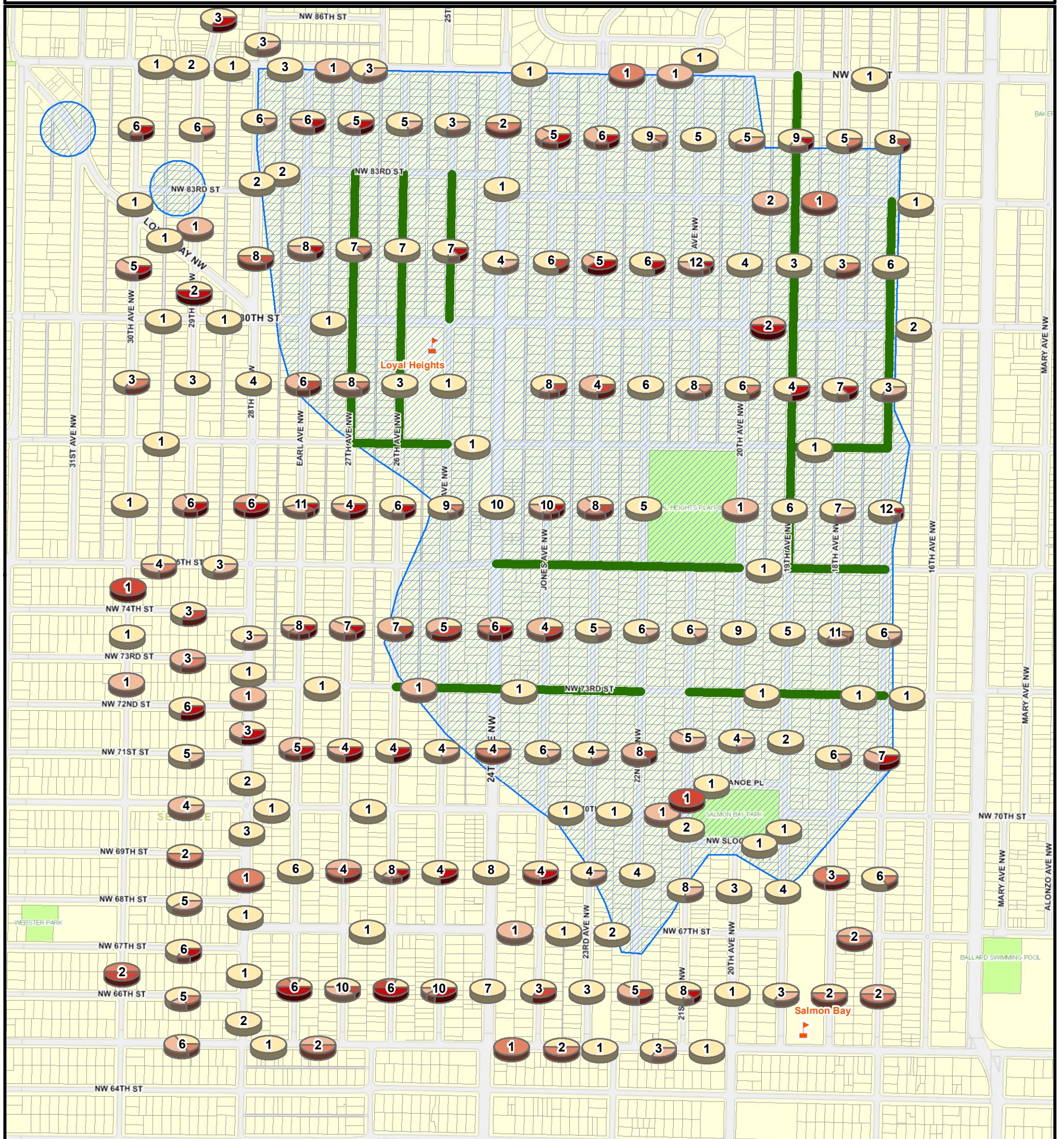
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Black / African American	5	.6	.7	.7
	White / Caucasian	669	85.1	92.0	92.7
	American Indian or Alaska Native	6	.8	.8	93.5
	Asian	16	2.0	2.2	95.7
	Some other race	4	.5	.6	96.3
	Two or more races	27	3.4	3.7	100.0
	Total	727	92.5	100.0	
Missing	0	45	5.7		
	System	14	1.8		
	Total	59	7.5		
Total		786	100.0		

Q22. Which modes of travel do you typically use?

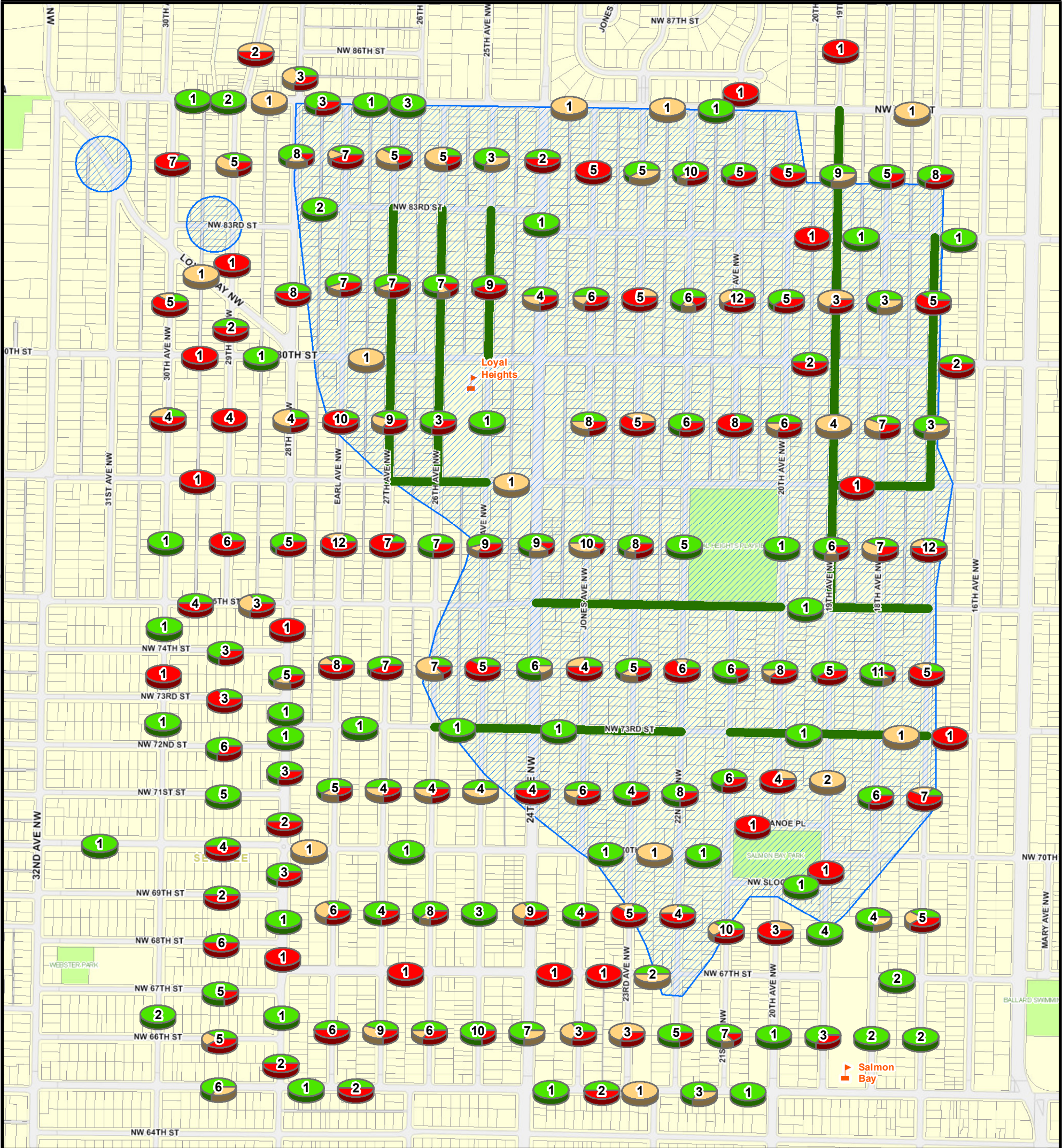
	Responses	Percent of Cases
	N	
Drive alone	645	84.9%
Carpool	189	24.9%
Ride the bus	358	47.1%
Vanpool	10	1.3%
Use light rail	36	4.7%
Use commuter rail	2	0.3%
Bike	188	24.7%
Walk	442	58.2%
Other	47	6.2%
Total	1917	252.2%

Multiple responses allowed; percents may add up to more than 100. N=760

Survey Results: Frequency of Groundwater Problems



Survey Results: Supportive or Unsupportive for Natural Drainage Systems in Parking Strips



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Natural Drainage Systems in Parking Strips



supportive
neutral
unsupportive

Potential Project Sites

Recessional and Advance Outwash Areas

Schools Public

Salmon Bay

