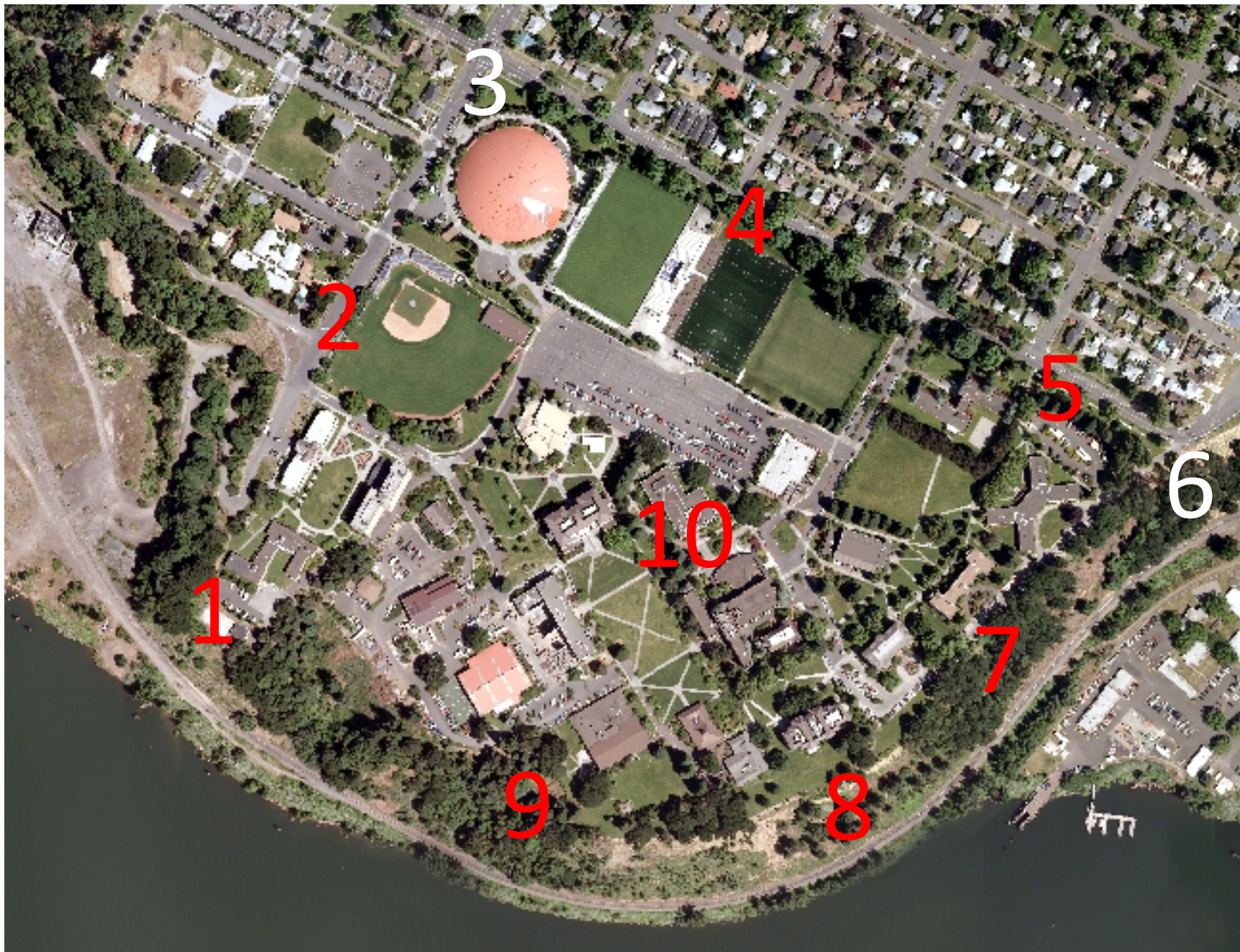


Odor Report Totals

Collected from January 29th to April
15th, 2013

Matthew Abely & Kayla Wong



SUMMARY DATA

Totals [Morning/Noon]

Total Days in Survey Period	77
Number of Days Odor Survey Conducted	46
Number of Days Missed	31
Number of Days Odor Detected Anywhere	Chem: 28, Organic: 3, Both: 14
Percent of Days Odor Detected Anywhere	Chem: 61%, Organic: 7%, Both: 30%, None: 2%

Dates Missed [Morning/Noon]

- February:
 - 2nd, 3rd, 9th, 10th, 11th, 16th, 17th, 18th, 23rd, 24th,
- March:
 - 5th, 7th, 10th, 11th, 14th, 15th, 16th, 19th, 20th, 21st,
25th, 27th, 30th 31st,
- April
 - 1st, 3rd, 11th 12th, 13th, 14th,

Number of Times Odor Detected in Morning/Midday

Station	Morning		Midday	
	47		47	
	Chemical	Farm	Chemical	Farm
1	1	2	3	0
2	19	0	5	0
3	18	0	21	0
4	9	1	13	0
5	12	1	9	2
6	24	6	22	7
7	15	2	10	5
8	8	0	6	3
9	4	1	7	3
10	2	1	2	0
Total	112	14	98	20

Percent of Times Odor Detected in the Morning/Midday

Station	Morning		Midday	
	% CHM	% Farm	% CHM	% Farm
1	2%	4%	6%	0%
2	40%	0%	11%	0%
3	38%	0%	45%	0%
4	19%	2%	28%	0%
5	26%	2%	19%	4%
6	51%	13%	47%	15%
7	32%	4%	21%	11%
8	17%	0%	13%	6%
9	9%	2%	15%	6%
10	4%	2%	4%	0%

Totals [Afternoon/Evening]

Total Days in Survey Period	77
Number of Days Odor Survey Conducted in the Afternoon	54
Number of Days Odor Survey Conducted in the Evening	49
Number of Days Missed (Afternoons)	23
Number of Days Missed (Evenings)	28
Number of Days Odor Detected (Afternoons)	Chem: 22, Organic: 5, Both: 6
Number of Days Odor Detected (Evenings)	Chem: 8, Organic: 2, Both: 6
Percent of Days Odor Detected Anywhere	Chem: 41%, Organic: 9%, Both: 11%, None: 39% Chem: 16%, Organic: 4%, Both: 12%, None: 67%

Days Missed [Afternoon/Evening]

- February:
 - 8th, 9th, 13th, 15th, 16th, 22nd, 23rd
- March:
 - 1st, 2nd, 5th, 9th, 10th, 11th, 16th, 17th, 23rd, 30th, 31st
- April
 - 6th, 11th, 13th, 14th, 15th

Number of Times Odor Detected in Afternoon/Evening

Station	Afternoon		Evening	
	54		49	
	Chemical	Farm	Chemical	Farm
1	1	1	0	0
2	1	1	1	1
3	1	1	0	1
4	5	2	1	1
5	11	1	3	1
6	11	3	4	3
7	5	3	5	0
8	6	2	3	2
9	4	0	1	0
10	1	0	0	0
Total	46	14	18	9

Percent of Times Odor Detected in Afternoon/Evening

Station	Afternoon		Evening	
	% CHM	% Farm	% CHM	% Farm
1	5%	5%	0%	0%
2	5%	5%	5%	5%
3	5%	5%	0%	5%
4	23%	9%	5%	5%
5	50%	5%	16%	5%
6	50%	14%	21%	16%
7	23%	14%	26%	0%
8	27%	9%	16%	11%
9	18%	0%	5%	0%
10	5%	0%	0%	0%

	Morning	Afternoon	Evening
Total Days	46	54	49
W/ Any Odor	45	33	16
Chemical	28	22	8
Farm	3	5	2
Both	14	6	6
W/O Odor	2	21	33
% Any Odor	96%	61%	29%
% Chemical	61%	41%	16%
% Farm	7%	9%	4%
% Both	30%	11%	12%
% W/O Odor	2%	39%	67%

Number of Times Odor Detected Any Time of Day

Station	Total Chem	Total Farm	Total
1	5	3	8
2	26	2	28
3	40	2	42
4	28	4	32
5	35	5	40
6	61	19	80
7	35	10	45
8	23	7	30
9	16	4	20
10	5	1	6

Percent of Times Odor Detected Any Time of Day

Station	% Chem	% Farm	% Overall
1	3%	2%	4%
2	13%	1%	14%
3	20%	1%	21%
4	14%	2%	16%
5	18%	3%	20%
6	31%	10%	41%
7	18%	5%	23%
8	12%	4%	15%
9	8%	2%	10%
10	3%	1%	3%

SUMMARY CONJECTURES

Limiting Factors

- Car exhaust might be adding gases to the pollution in the air, but Swan Island is likely the main source:
 - Would smell chemical smells all around city
 - 41% times that someone went out to Station 6, there was a smell.
 - No station was ever odorless...
- Human error:
 - An average of 20/77 days were missed due to misunderstandings about the project
 - The human nose is good but not as accurate as a machine designed to detect volatile organic compounds (VOCs) and other such pollution

Conclusion

- There is chemical pollution, but it is not as strong as could be
 - 40% of odors detected were only a 1/10 in terms of odor strength
 - Arbitrary scale used to rank strength of odor
- Action however should still be taken, because
 - Low doses of chronic pollution is still not good
 - No pollution is still best
 - No station was ever odorless