

**Storm Drain Inventory**  
**Eagle Scout Project: Vincent Reda**  
**Spring 2009**

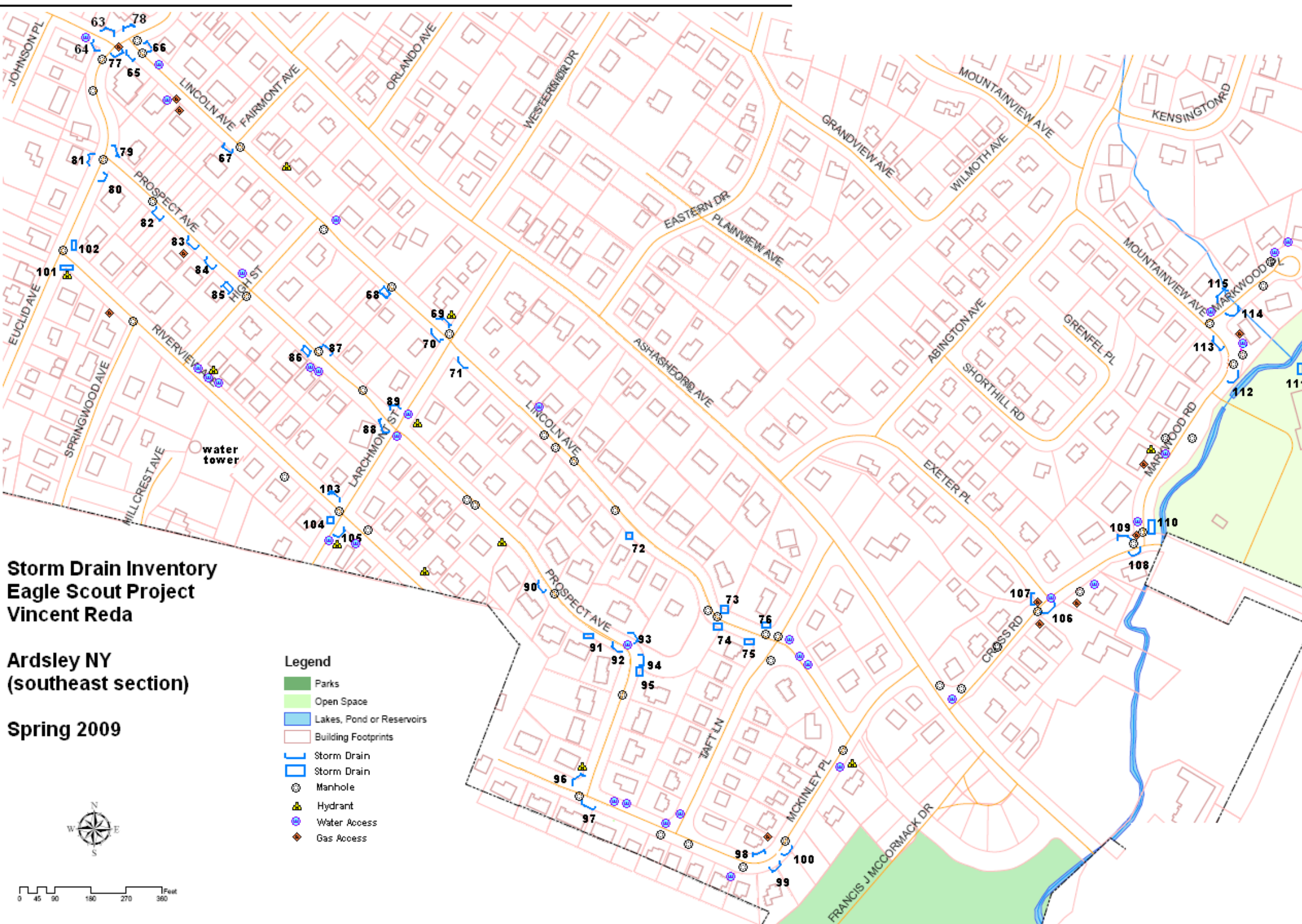
A vital part of the Village of Ardsley Phase II Stormwater Management Program is performance of a comprehensive storm drain and catch basin inventory. Storm drains and catch basins are the last chance for effective runoff treatment before water enters the local water bodies. Trash and numerous pollutants can be held back in these receptacles. Also, holding back some water helps to attenuate the runoff volume during storms. Determination of stormwater conveyance capacity and assessment of drain conditions are crucial to maintaining this system. The inventory has been mandated by the NYS Department of Environmental Conservation and must be completed by all MS4 (Municipal Separate Storm Sewer System) communities.

The Village of Ardsley, although it is the smallest municipality in Westchester County and is only about 1 square mile in area, has over 250 storm drains and catch basins. Precise inventory of all these conveyances is a daunting task for such a small village.

The Village is extremely grateful to Vincent Reda, Eagle Scout candidate, for undertaking the storm drain assessment and mapping tasks. He and his team were able to successfully assess and map 52 storm drains this past spring. Under Vincent's direction, the team photographed, measured dimensions, checked the condition and recorded GPS coordinates for all of these drains. Thanks to the efforts of Vincent and his team, the Village has completed a solid portion of the inventory and established field procedures for the work to continue.

We thank the following Scouts and their families for this wonderful effort:

Vincent Reda  
Stephanie Reda  
Maryanne Reda  
Dino Reda  
Thomas Russo  
Alex Delagarza  
Justin Delagarza  
Javier Delagarza  
William Gonzalez, Jr.  
William Gonzalez, Sr.  
Scott McKenna  
Peter McKenna  
Kazuki Nakatani  
Alex Pawlak  
Jim Pawlak



**Storm Drain Inventory  
Eagle Scout Project  
Vincent Reda**

**Ardsley NY  
(southeast section)**

**Spring 2009**

- Legend**
- Parks
  - Open Space
  - Lakes, Pond or Reservoirs
  - Building Footprints
  - Storm Drain
  - Storm Drain
  - Manhole
  - ⚡ Hydrant
  - Water Access
  - ♦ Gas Access



<b>Storm Drain Inventory Eagle Scout Project Vincent Reda Spring 2009</b>										
<b>Drain #</b>	<b>Length(in)</b>	<b>Width (in)</b>	<b>Depth (in)</b>	<b>Water Depth (in)</b>	<b>GPS Reading</b>	<b>Flow</b>	<b>Pipes</b>	<b>Debris</b>	<b>Odor</b>	<b>Other</b>
63	36	24	61	16	N 41 00.594 W 73 50.672	standing	NE, SW	none	none	
64	36	24	45	16	N 41 00.590 W 73 50.674	standing	NE	bottle	none	
65	36	22	41	0	N 41 00.590 W 73 50.661	no	NE, SW	heavy leaves, garbage	none	
66	36	22	54	0	N 41 00.594 W 73 50.656	no	NE, SW	slight leaves	none	hole in blacktop
67	30	28	45	0	N 41 00.549 W 73 50.608	no	N	heavy garbage	none	flat grate
68	24	21	8	0	N 41 00.488 W 73 50.524	no	?	heavy leaves, garbage	none	needs cleaning,
69	36	24	33	0	N 41 00.478 W 73 50.481	no	N, S	heavy leaves	none	needs cleaning
70	36	24	39	0	N 41 00.482 W 73 50.484	no	N, S	slight leaves	none	
71	36	24	56	0	N 41 00.452 W 73 50.490	no	W	garbage	none	
72	30	27	15	0	N 41 00.384 W 73 50.383	no	N	leaves	none	rocks

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73	42	35	37	0	N 41 00.353 W 73 50.334	no	S	mud, slight leaves	none	
74	42	35	35	0	N 41 00.350 W 73 50.336	no	N	mud, slight leaves	none	
75	42	35	30	0	N 41 00.341 W 73 50.318	no	N	mud, slight leaves	none	
76	42	35	31	0	N 41 00.342 W 73 50.317	no	S	mud, slight leaves	none	
77	20	19	44	0	N 41 00.604 W 73 50.662	no	no	mud inside mud above grate	none	
78	26	26	closed top	?	N 41 00.593 W 73 50.669	?	?	mud	none	resident reports overflow
79	19	20	60	0	N 41 00.542 W 73 50.675	no	no	dirt	none	
80	25	30	?	0	N 41 00.537 W 73 50.677	no	?	full of gravel	none	filled up
81	25	32	?	0	N 41 00.541 W 73 50.682	no	?	none	none	

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82	17	20	7	0	N 41 00.521 W 73 50.644	no	?	full of sand	none	
83	26	24	24	0	N 41 00.506 W 73 50.624	no	none	leaves	none	
84	26	26	27	0	N 41 00.497 W 73 50.618	no	none	mud	none	
85	26	26	27	3	N 41 00.488 W 73 50.614	no	none	none	none	
86	22	36	2	0	N 41 00.463 W 73 50.570	no	E	mud	none	
87	36	22	27	0	N 41 00.464 W 73 50.558	no	none	mud	none	
88	24	36	53	5	N 41 00.430 W 73 50.520	no	S	none	none	
89	24	36	67	1	N 41 00.433 W 73 50.518	no	N	mud	none	
90	22	48	44	13	N 41 00.360 W 73 50.432	no	E	sticks, mud	none	
91	20	42	21	0	N 41 00.337 W 73 50.398	no	E, W	full of sand	none	needs cleaning
92	48	22	44	14	N 41 00.336 W 73 50.397	no	E	mud	none	

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				<b>Depth (in)</b>							
93	22	48	32	12	N 41 00.338 W 73 50.387	no	S	none	none		
94	48	24	73	10	N 41 00.334 W 73 50.387	no	S,E,N,W	none	none		
95	22	48	29	2	N 41 00.330 W 73 50.383	no	N	thick dirt, mud	none	needs cleaning	
96	22	48	28	1	N 41 00.288 W 73 50.417	no	SE	gravel	none	needs cleaning	
97	48	22	28	21	N 41 00.274 W 73 50.408	no	?	full of water	none	needs draining	
98	22	48	28	2	N 41 00.255 W 73 50.315	no	SW	rocks, mud	none	needs cleaning	
99	22	19	49	8	N 41 00.254 W 73 50.312	no	SW	none	none		
100	22	48	66	8	N 41 00.257 W 73 50.307	no	E, W	none	none		
101	24	36	33	0	N 41 00.514 W 73 50.695	no	none	none	none		
102	24	24	?	?	N 41 00.508 W 73 50.694	?	?	needs cleaning	none	flat top	
103	34	24	59	2	N 41 00.410 W 73 50.556	no	N	none	none		

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104	24	24	?	?	N 41 00.393 W 73 50.555	?	?	full of dirt	none	needs cleaning	
105	48	24	19	0	N 41 00.395 W 73 50.548	no	?	dirt, gravel	none	needs cleaning	
106	41	24	43	2	N 41 00.359 W 73 50.159	N to E	N, E	none	none		
107	48	22	53	9	N 41 00.358 W 73 50.165	E	E, N	none	none		
108	36	22	33	15	N 41 00.378 W 73 50.114	no	E, W	rocks	none	needs repair, caving in	repaired Fall 2009
109	36	22	31	1	N 41 00.382 W 73 50.117	no	E, W	none	none		
110	48	22	53	7	N 41 00.383 W 73 50.104	no	S	none	none		
111	36	31	76	5	N 41 00.452 W 73 50.023	no	none	none	none		
112	48	22	36	0	N 41 00.444 W 73 50.062	no	E, W	dirt	none		
113	48	22	30	0	N 41 00.462 W 73 50.077	no	E	dirt	none		

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				<b>Depth (in)</b>							
114	48	22	40	5	N 41 00.487	E	E, W	none	none		
					W 73 50.048						
115	48	22	41	7	N 41 00.487	E	W, E	none	none		
					W 73 50.056						

Storm Drain Inventory Eagle Scout Project Vincent Reda Spring 2009



Eagle Scout Team



SD 67



SD 72



SD 77



SD 82



SD 63



SD 68



SD 73



SD 78



SD 83



SD 64



SD 69



SD 74



SD 79



SD 84



SD 65



SD 70



SD 75



SD 80



SD 85



SD 66



SD 71



SD 76



SD 81



SD 86

Storm Drain Inventory Eagle Scout Project Vincent Reda Spring 2009



SD 87



SD 92



SD 97



SD 102



SD 107



SD 88



SD 93



SD 98



SD 103



SD 108



SD 89



SD 94



SD 99



SD 104



SD 109



SD 90



SD 95



SD 100



SD 105



SD 110



SD 91



SD 96



SD 101



SD 106



SD 111

**Storm Drain Inventory Eagle Scout Project Vincent Reda Spring 2009**



**SD 112**



**SD 113**



**SD 114**



**SD 115**