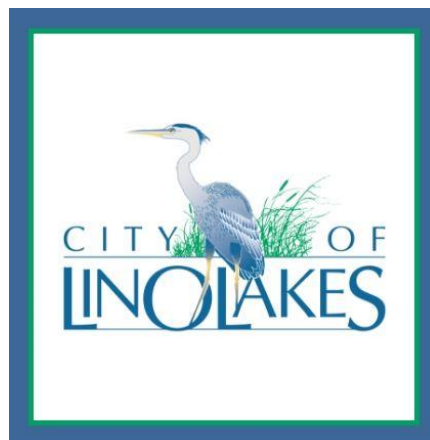


January 30, 2024

2024 PAVEMENT CONDITION REPORT

Lino Lakes, MN



PREPARED FOR: CITY OF LINO LAKES
600 TOWN CENTER PARKWAY
LINO LAKES, MN 55014

WSB PROJECT NUMBER: R-026123-000

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Pavement Condition Summary

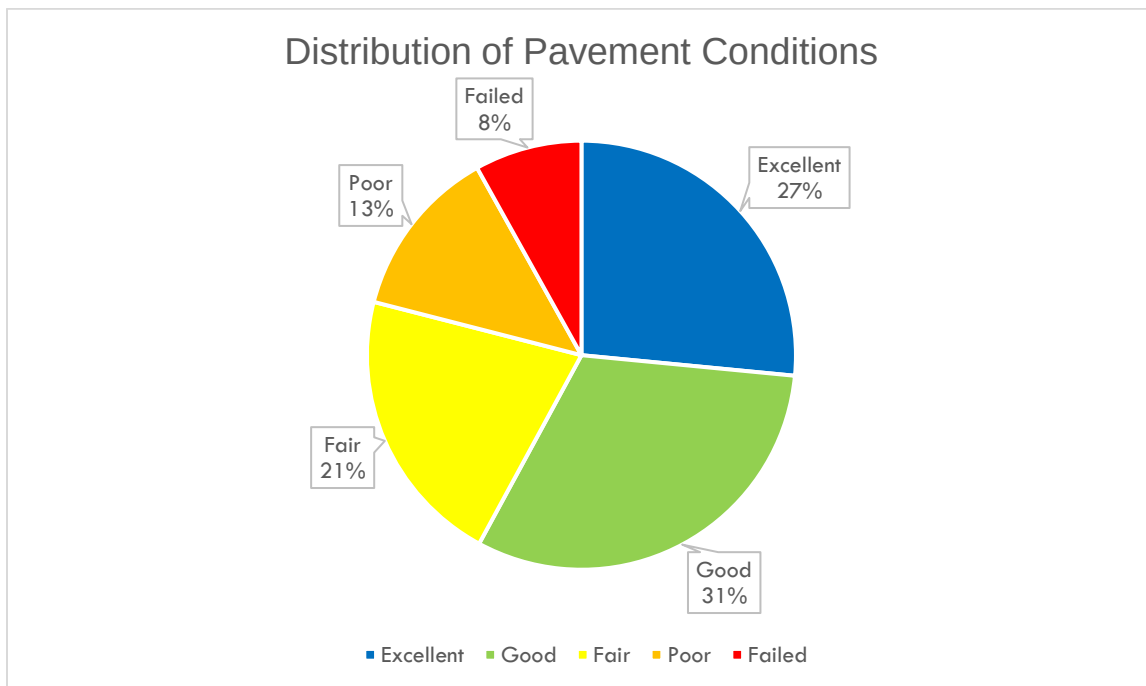
This report summarizes the findings of the pavement inspection of the road segments in Lino Lakes performed by WSB and completed in 2024. The report gives an overview of the condition of roads in the city but is not intended to be a final document on public policy or city planning and is subject to change upon review by City Council.

A summary of the pavement condition report is listed below:

- Each year, WSB inspects approximately a quarter of the road pavement in Lino Lakes. This results in an inspection of the entire City's network over a 4-year period.
- In 2024, 28.5 miles of City roadway were evaluated in Lino Lakes. The other 78 miles of roadway that did not get inspected received an updated condition score generated by extrapolating each segment's degradation from its last inspection date.
- The current weighted average Pavement Condition Index (PCI) for bituminous roads in Lino Lakes is 72.1. PCI is based on a 0 to 100 scale, with higher PCI values corresponding to better road conditions. This weighted average is calculated from the PCI values generated on each segment of roadway. A road's PCI is based on the quantity and severity of pavement distresses identified in the field. Any type of road maintenance done prior to inspections is accounted for in the PCI value.

Each segment of bituminous roadway was sorted into one of five broad categories based on their PCI value. Figure 1. shows the percentage of bituminous roadways in each condition category in terms of surface area.

Figure 1. Percent of System in Each Pavement Condition Category.



Starting in 2023 the City moved from using 3 condition categories to describe the condition of pavement segments (Adequate, Marginal, and Problem) to 5 categories. This provides a better understanding of the distribution of pavement conditions in the City. Additional categories also make it easier to spot trends in how the pavement network is performing. Finally, the 5 categories used were designed to correlate to a typical recommended maintenance treatment. This is useful in pavement modeling and budgeting.

Most roadways qualified for the Excellent or Good categories. However, 40% of the City's roads are in Fair, Poor, or Failed condition.

Table 1. shows how the City's pavement conditions have changed over the past 3 years. The average PCI has fluctuated between 72 and 75 with this year's ratings showing a decrease from last year. Notable good trends include steady rates in the amount of roads in Failed and Poor condition.

Condition	PCI Range	Percent of Roadway Network by Area		
		2024 Inspection	2023 Inspection	2022 Inspection
Excellent	85.01-100.00	26.5%	40.0%	44.5%
Good	75.01-85.00	31.4%	26.3%	22.4%
Fair	58.01-75.00	21.1%	12.9%	11.6%
Poor	40.01-58.00	12.9%	14.0%	14.4%
Failed	0.00-40.00	8.1%	6.8%	7.0%
Weighted Average PCI		80.0	75.5	74.2

Table 1. Pavement Condition Trends

For additional information on pavement management planning in Lino Lakes, refer to the Pavement Capital Improvement Planning report published in August 2023.

Appendix A includes maps of all the inspected road segments in the City with their PCI condition categories. Appendix B displays the updated PCI values of every segment.

Recommended Maintenance Action

Lino Lakes has many options at their disposal for pavement rehabilitation and preventative maintenance including reconstruction, reclamation, mill and overlays, and preventative maintenance that extend the life of a roadway. Each of these treatments should last several years and be cost-effective, if correctly implemented at the right time. WSB recommends using the recommended strategies listed in table 2. However, this general recommendation is not perfect for every situation and should serve only as a general guide. A detailed explanation of each recommended maintenance activity is included below.

Table 2. Pavement Condition Categories Based on PCI Values

Category	Pavement Condition Index (PCI)	Recommended Strategy
Excellent	85.01 – 100.00	Corrective Maintenance
Good	75.01 – 85.00	Preventative Maintenance
Fair	58.01 – 75.00	Mill/Overlay
Poor	40.01 – 58.00	Reclamation
Failed	0.00 – 40.00	Reconstruction

Corrective Maintenance

Corrective maintenance is used to fix a road segment that is starting to show distress due to weathering or is not performing as expected. This typically involves crack sealing or patching. Corrective maintenance is recommended for roads in Excellent condition because these segments should not need any major maintenance other than minor crack sealing unless the pavement behaves unpredictably.

Preventative Maintenance

Preventative maintenance is defined as treatment to an existing road that will help preserve and protect the pavement, while also slowing future deterioration. This type of maintenance improves the condition of the system without increasing its structural capacity.

Implementing a preventative maintenance strategy is cost-effective and important since maintenance costs increase with pavement age. Preventative maintenance actions can be done at a much lower cost than preservation actions such as mill and overlays. By applying appropriate preventative maintenance before a road deteriorates, the pavement can be kept in good condition at a much lower cost. With proper preventative maintenance techniques, the life of an average paved road increases from 20 years to 60 years.

Preventative maintenance is best performed on newer pavements prior to the appearance of significant and/or severe distresses. There are many preventative maintenance applications that seek to protect pavement from deterioration. These treatments vary in effectiveness and price. Common preventative maintenance techniques include rejuvenating, crack sealing, fog sealing, chip sealing, chip sealing followed by fog sealing, micro-surfacing, and slurry sealing. Currently, the preferred preventative maintenance application in Lino Lakes is a rejuvenator application. Rejuvenators slow the oxidation reaction that wears out pavement and causes cracking. The

City utilizes seal coats for preventative maintenance on roads that have already received a seal coat treatment but no longer uses them on new roads. Patching can also be considered preventative maintenance, but it is usually implemented on small areas of severe distress. Additionally, patching a road to increase its PCI does not provide long term structural improvement. Patching may be necessary to keep roads in serviceable condition but it should not be considered routine maintenance for every road.

Overlay/Mill and Overlay

An overlay involves placing a new layer of bituminous material on top of an existing asphalt surface. A mill and overlay requires grinding all or a portion of the in-place asphalt surface and topping the ground surface with a bituminous wearing course. This rehabilitation strategy provides a structural improvement to the roadway. We recommend conducting more investigation such as pavement coring to evaluate the subsurface conditions before implementing an overlay project. Information such as depths of pavement layers, signs of debonding, and distresses that are not visible from the road surface can be obtained through pavement coring. Applying an overlay to a pavement structure with inadequate subsurface conditions will cause the new surface to fail prematurely.

Reclamation

The most common types of reclamation are full-depth reclamations (FDR) and stabilized full-depth reclamations (SFDR). FDR involves pulverizing the full depth of bituminous and a portion of the underlying materials. That material then gets blended together and placed as a sound base for new pavement. Typically, FDR reclaim depth is 12 inches, although it can be as deep as 18 inches. Excess FDR mixture may be removed to allow 6-inch lifts compaction. Additional rock may need to be provided if the mixture is expected to be deficient in crushing or gradation. The reclaimed mixture can be topped with different types of surface course, depending on the structural requirements and anticipated traffic level. A layer of tack coat needs to be applied prior to surface treatment to provide good bonding between the FDR mixture and surface course. SFDR involves the same process but includes mechanical, chemical, or bituminous stabilization. The typical minimum depth of stabilization is 4 inches, but it can go as deep as 6 inches. Mechanical stabilization involves the addition of new aggregate or recycled materials. Chemical stabilization includes the addition of lime, cement, fly ash, calcium chloride, or other proprietary products. The asphalt additives can be foamed asphalt or asphalt emulsion. These stabilizing agents if combined with additives, can help optimizing the FDR performance.

Reconstruction

Reconstruction includes the complete replacement of the road's driving surface and pavement structure. The pavement along with its base layers are then replaced with new material. Asphalt mix type, ride specification, lift thicknesses, and compaction requirements must be in accordance to the specified standard. Selecting the specific appropriate reconstruction plan for a road requires more detailed investigation such as pavement coring. Each road segment requires a specific pavement design that considers existing subgrade materials and traffic loading to create the most effective pavement structure. The City's current standard design includes 4.5 inches of bituminous over 8 inches of aggregate base and an appropriate subbase.

Subsurface water management is a significant component of a reconstruction project. Thus, addressing roadway drainage is included in roadway reconstruction projects. When performing a reconstruction, it is important to consider the entire pavement structure that includes the base and subbase. A larger initial investment in thicker base and subbase layers along with edge drains provides the pavement with a stronger foundation that reduces damage from moisture under the surface. This produces pavement that is less susceptible to damage and has a longer expected life. WSB can provide specific reconstruction design recommendations if requested.

Thin Overlays

Another common maintenance technique in Lino Lakes is a thin overlay. This treatment usually involves applying a thinner than normal overlay and serves a different purpose compared to a traditional mill/overlay project. Instead of a long-lasting structural improvement, a thin overlay seeks to resurface a road that needs a major rehabilitation such as reconstruction or reclamation but there is not enough budget to fund such a large project. Thin overlays typically do not last as long as a conventional overlay since they use a thinner layer of pavement on a road in worse condition. However, they are a useful tool the City can use to add additional life to a road and to delay major construction until additional resources are available.

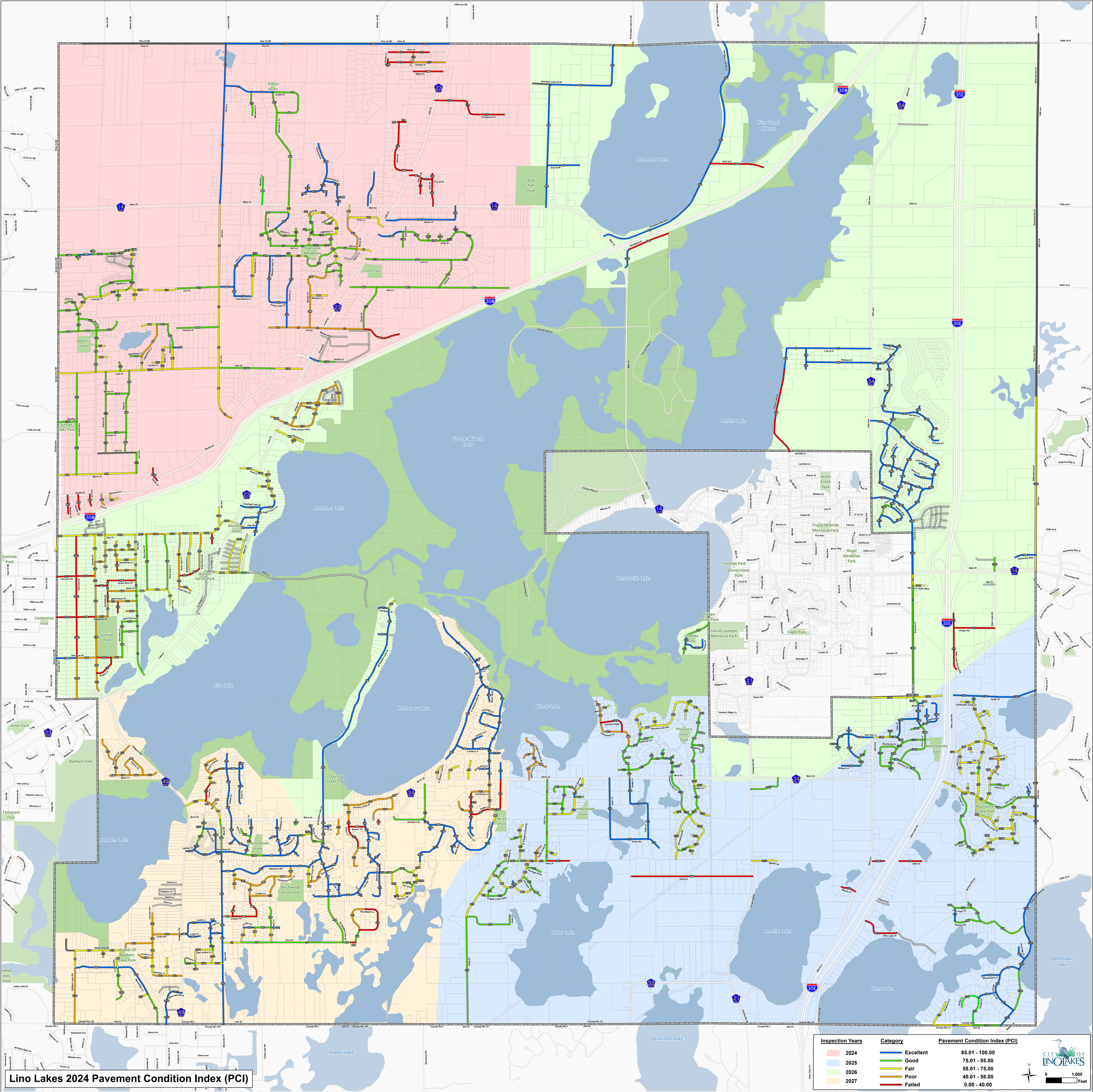
Pavement Forensics

The final decision on implementing a reconstruction, reclamation, or overlay project should come after a pavement forensic study. Pavement forensics studies the pavement structure and condition of the base underneath the visible layer of pavement. Important information results from this analysis. Examining pavement cores can determine the depths of pavement layers, signs of bonding or de-bonding, and distresses that might not be visible from the surface. Soil borings along the roadway can be used to identify aggregate depths and soil classifications to provide a better understanding of the roadway section. This information is crucial when determining what type of rehabilitation is needed and what it will cost. Several factors should be considered when deciding the number of cores to be taken such as the pavement condition and the variability in the pavement depth as cores are being taken. A pavement forensic study should be conducted less than two years before a major maintenance project to ensure the results of the study accurately reflect the road's condition. The findings of pavement forensic studies have been proven to lead to cost savings and more appropriate maintenance strategies.

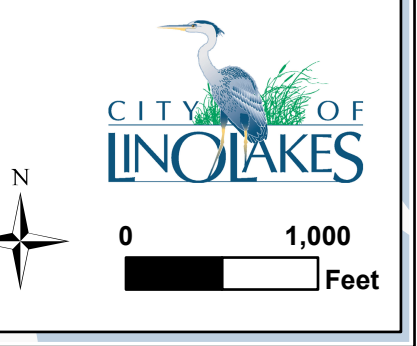
WSB can provide additional information on all of the maintenance strategies discussed in this report if needed.

Appendix A: PCI Condition Category Map

Appendix B: PCI Values by Segment



Lino Lakes 2024 Pavement Condition Index (PCI)



Branch ID	Section ID	Length (ft)	Area (sq ft)	PCI
12th Avenu	1	784	18816	90
12th Avenu	3	310	10230	93
12th Avenu	4	1198	28752	95
12th Avenu	5	338	8112	89
21st Avenu	6	386	13124	77
21st Avenu	7	908	27240	82
2nd Avenue	9	338	13520	83
2nd Avenue	10	331	13240	83
2nd Avenue	11	333	13320	83
2nd Avenue	12	1457	58280	83
2nd Avenue	13	320	12800	81
2nd Avenue	14	343	13720	75
2nd Avenue	15	318	12720	77
2nd Avenue	16	484	19360	79
2nd Avenue	17	342	13680	81
2nd Avenue	18	309	12360	83
4th Avenue	19	479	19639	56
4th Avenue	20	3838	92112	94
4th Avenue	21	1300	52000	72
4th Avenue	22	1363	32712	96
4th Avenue	23	2661	106440	73
4th Avenue	24	1327	47772	63
4th Avenue	25	1317	52680	73
62nd Avenu	26	962	21164	82
62nd Avenu	27	617	13574	66
62nd Avenu	28	263	5786	82
62nd Avenu	29	2313	50886	81
64th Stree	30	708	16992	19
77th Stree	37	2087	45914	94
77th Stree	38	624	13728	91
77th Stree	39	551	13224	58
77th Stree	40	1264	30336	38
77th Stree	41	747	17928	58
77th Stree	42	1246	29904	44
77th Stree	43	495	11880	57
79th Stree	45	763	21364	80
79th Stree	46	442	12376	75
81st Stree	49	1034	24816	100
81st Stree	50	415	12450	35
81st Stree	51	348	10440	32
Aenon Plac	53	1113	33390	88
Albert Cou	54	267	6408	82
Andall Str	56	792	23760	85

Andall Str	57	905	27150	88
Andall Str	58	699	20970	90
Andall Str	59	1254	37620	84
Antelope D	60	167	4509	35
Antelope D	61	176	4752	46
Antelope D	62	333	8991	45
Antelope D	63	484	13068	46
Apollo Dri	64	321	11556	91
Appaloosa	66	367	10276	77
Appaloosa	67	439	12292	73
Appaloosa	68	1199	33572	56
Arlo Lane	73	422	11816	83
Arlo Lane	75	818	22904	78
Arrowhead	77	217	6076	95
Arrowhead	78	457	12796	94
Arrowhead	79	536	15008	94
Arrowhead	80	581	16268	93
Arrowhead	81	780	21840	93
Arthur Cou	82	549	15372	76
Aspen Lane	83	582	16296	51
Aspen Lane	84	183	5124	44
Aspen Lane	85	642	17976	34
Baldwin La	95	557	15596	68
Oak Lane	97	473	13244	80
Beaver Cir	98	529	14812	90
Beaver Tra	99	534	14952	38
Behm Lane	100	153	4284	87
Behm Lane	101	788	22064	76
Behm Lane	102	231	6468	67
Birch Cour	104	129	3612	24
Black Duck	105	409	11452	100
Black Duck	106	318	8904	100
Black Duck	108	1147	32116	100
Black Duck	109	327	9156	100
Black Duck	110	250	7000	100
Black Duck	111	498	13944	100
Black Duck	112	149	4172	100
Black Duck	113	1652	46256	93
Black Duck	114	695	19460	100
Black Duck	115	312	8736	97
Black Duck	116	426	11928	100
Black Duck	117	487	13636	100
Black Duck	118	408	11424	43
Black Duck	119	583	16324	47

Blackbird	120	752	21056	82
Bloom Cour	121	471	11304	43
Blue Heron	122	475	13300	55
Blue Heron	123	639	17892	59
Bradley St	125	605	18150	85
Buckthorn	127	500	14000	83
Canfield R	128	562	16860	100
Caribou Ci	130	363	9801	43
Carl Stree	131	773	18552	76
Carl Stree	132	1316	31584	82
Carole Dri	133	1483	44490	83
Cassiopeia	134	360	10080	77
Cedar Stre	135	728	24752	100
Cedar Stre	136	646	18088	100
Cherokee T	142	514	14392	83
Chippewa T	144	759	21252	91
Chippewa T	145	193	5404	94
Chokecherr	146	425	11900	87
Chokecherr	147	477	13356	86
Cinnamon T	148	340	9520	32
Clearwater	149	214	5992	69
Clearwater	150	408	13056	78
Clearwater	151	439	12292	71
Clearwater	152	350	9800	83
Clearwater	153	215	11180	86
Clearwater	154	1236	34608	82
Clearwater	155	936	26208	69
Clearwater	157	736	20608	79
Clearwater	158	679	19012	72
Connie Lan	159	661	19830	85
Country La	160	222	6216	55
Country La	161	1411	39508	55
Country La	162	160	4480	86
Country La	163	1529	45870	88
Country La	165	811	24330	91
Coyote Cou	166	335	9380	38
Coyote Tra	169	378	10584	54
Cripple Cr	172	345	9660	87
Cripple Cr	173	785	21980	86
Cripple Cr	174	281	7868	67
Crystal Co	176	189	5292	95
Danube Str	177	502	15060	23
Deer Pass	179	523	14644	92
Deerwood C	180	119	3332	90

Deerwood C	181	279	16740	90
Deerwood L	182	988	27664	93
Deerwood L	183	223	6244	95
Deerwood L	184	230	6440	94
Deerwood L	185	1242	34776	46
Deerwood L	186	442	12376	95
Deerwood L	187	488	13664	92
Deerwood L	188	485	13580	94
Delina Cir	189	260	6240	82
Diane Cour	191	214	6420	21
Diane Cour	192	46	1380	39
Diane Stre	193	1550	46500	12
Diane Stre	194	511	15330	39
Durango Po	197	475	13300	87
Egret Lane	198	184	5152	50
Egret Lane	199	450	12600	50
Egret Lane	200	419	11732	55
Egret Lane	201	464	12992	54
Elbe Stree	202	177	5310	27
Elbe Stree	203	864	25920	36
Ellen Cour	204	200	5600	67
Eva Street	212	325	9750	57
Evergreen	213	503	14084	9
Evergreen	214	884	26520	8
Evergreen	215	1135	31780	11
Fairmont D	216	604	13288	37
Fairmont D	217	620	13640	38
Fawn Lane	218	802	22456	42
Fawn Lane	219	223	6244	33
Fawn Lane	220	473	13244	52
Fawn Lane	221	698	19544	46
Flora Cour	222	350	8400	86
Forsham La	223	678	18984	94
Fox Road	225	164	4592	95
Woodridge	227	262	7074	72
Fox Road	228	634	17752	93
Fox Road	229	1056	29568	94
Fox Road	230	506	14168	93
Fox Road	231	341	9548	93
Foxtail Co	232	804	24120	95
Foxtail Dr	233	946	28380	95
Foxtail Dr	234	592	17760	95
Gaage Lane	235	831	24930	100
Gladstone	236	345	9315	50

Gladstone	237	383	10724	53
Gladstone	239	619	13618	30
Glen Circl	240	264	7392	77
Glenview A	242	495	13365	82
Glenview D	243	363	10164	55
Glenview D	244	630	13860	51
Glenview D	245	475	10450	39
Glenview L	247	325	8775	81
Gordon Ave	249	453	13590	93
Gordon Ave	250	224	6720	92
Gray Heron	251	329	9212	32
Gray Heron	252	1159	32452	47
Gray Heron	253	374	10472	43
Green Bria	254	910	24570	45
Green Bria	255	384	10368	45
Greenwood	256	575	17250	89
Grey Squir	257	270	7290	51
Grey Squir	258	331	8937	41
Grey Squir	259	336	9072	59
Hawk Ridge	261	163	3423	95
Hawthorn R	262	1981	55468	92
Hawthorn R	263	595	16660	93
Hawthorn R	264	383	10724	91
Heather Co	265	478	13384	39
Henry Lane	266	1351	37828	84
Henry Lane	267	451	12628	81
Hickory Pl	269	185	5180	90
Highland C	270	129	3612	73
Highland C	271	333	9324	77
Highland D	272	809	22652	76
Highland D	273	663	18564	75
Highland D	274	488	13664	80
Highland D	275	147	4116	81
Highland D	276	386	10808	71
Highland L	277	196	5488	83
Highland T	278	662	18536	82
Hokah Driv	279	153	10404	93
Hokah Driv	280	473	13244	92
Hokah Driv	281	476	14280	92
Hokah Driv	282	665	18620	93
Hokah Driv	283	807	24210	93
Hokah Driv	284	869	26070	93
Hollow Lan	285	657	18396	81
Hollow Lan	286	483	13524	77

Holly Cour	287	1872	44928	91
Holly Driv	292	449	10776	90
Holly Driv	293	245	5880	91
Ironwood C	301	221	6188	93
Iverson Co	302	603	16884	91
James Stre	307	2202	61656	93
James Stre	308	442	12376	92
Jeanne Dri	310	659	19770	85
Jeanne Dri	311	720	21600	85
Jeanne Dri	312	1252	37560	89
Jon Avenue	313	659	18452	85
Joseph Cou	314	225	6300	80
Joseph Cou	315	333	9324	82
Joyer Lane	316	1972	59160	100
Karth Road	317	1220	36600	100
Karth Road	318	454	13620	100
Killdeer C	319	155	4340	24
Killdeer D	320	127	3556	26
Killdeer D	321	158	4424	23
Killdeer D	322	259	7252	24
Killdeer D	323	332	9296	39
Kingfisher	324	490	13720	47
Lacasse Co	326	237	6636	52
Lacasse Dr	330	506	14168	60
Lacasse Dr	331	407	11396	72
Lacasse Dr	332	529	14812	73
Lacasse Dr	333	764	21392	73
Lacasse Dr	334	201	7236	74
Lacasse Dr	335	581	16268	81
Lacasse Dr	336	418	11704	68
Lamotte Dr	342	281	7868	93
Lamotte Dr	344	307	8596	91
Langer Lan	350	1712	41088	84
Langer Lan	352	454	10896	84
Lantern Ci	354	582	16296	94
Lantern La	355	527	14756	96
Lantern La	356	556	15568	97
Laurene Av	357	675	16200	58
Laurene Av	358	285	6840	59
Laurene Av	359	558	13392	65
Laurene Av	360	470	11280	46
Lea Court	361	361	10108	53
Leonard Av	362	1716	48048	85
Leonard Av	363	1559	43652	85

Linda Aven	365	935	22440	50
Linda Aven	366	182	5096	100
Linda Aven	367	380	10640	100
Linda Circ	368	204	5712	90
Linda Cour	369	472	13216	100
Linda Lane	370	313	8764	100
Linda Lane	371	332	9296	100
Linda Lane	372	1039	29092	100
Linden Lan	373	1317	36876	53
Lois Lane	374	453	13590	73
Lois Lane	375	1377	41310	89
Lois Lane	376	1428	42840	81
Lois Lane	377	177	5310	77
Lois Lane	378	573	17190	78
Lois Lane	379	934	28020	78
Lois Lane	380	2168	65040	78
Lois Lane	381	307	9210	83
Lois Lane	383	297	8910	89
Lonesome P	384	334	9352	56
Lonesome P	385	862	24136	47
Lonesome P	386	523	14644	50
Lonesome P	387	586	16408	47
Mallard La	388	337	9436	95
Maple Stre	389	926	22224	39
Marcia Lan	390	750	22500	85
Marilyn Dr	391	425	11900	65
Marilyn Dr	392	214	5992	73
Marilyn Dr	393	328	9184	83
Marilyn Dr	395	1313	36764	56
Marilyn Dr	396	1043	29204	55
Marilyn Dr	398	457	12796	81
Market Pla	399	241	9640	100
Marshan La	400	938	18760	66
Marvy Stre	401	1937	54236	74
Marvy Stre	402	613	17164	75
Meadow Cou	403	585	16380	36
Meadowview	404	1462	43860	88
Patti Driv	405	1275	38250	85
Pelican Pl	406	1382	38696	47
Peltier La	408	2902	63844	26
Peltier La	409	656	14432	92
Peregrine	410	346	8996	79
Pheasant H	411	145	4060	95
Pheasant H	412	323	9044	95

Pheasant H	413	361	10108	95
Pheasant H	414	349	9772	94
Pheasant H	415	246	6888	95
Pheasant H	416	260	7280	100
Pheasant H	417	874	24472	93
Pheasant R	418	505	14140	100
Pheasant R	420	961	26908	42
Phelps Roa	421	1318	36904	25
Pinto Lane	425	403	11284	78
Pondview C	426	425	11900	92
Pony Court	427	262	7336	67
Post Road	428	442	11934	95
Post Road	429	845	22815	95
Prairie Fl	430	243	6804	88
Prairie Fl	431	573	16044	78
Praire Vie	432	579	17370	88
Quarter Ho	433	286	8008	83
Red Birch	434	575	16100	65
Red Clover	435	594	16038	50
Red Hawk T	436	296	8288	46
Red Hawk T	437	267	7476	60
Red Maple	438	1515	42420	27
Red Maple	439	432	12096	82
Red Maple	441	1111	31108	56
Rehbein St	443	2081	62430	93
Reiling Ro	444	872	24416	92
Rice Court	445	404	11312	84
Rice Lake	446	528	14784	79
Rice Lake	447	1775	49700	81
Rice Lake	448	1769	49532	81
River Birc	449	652	18256	88
River Birc	450	769	21532	53
Rohavic La	451	445	13350	51
Rohavic La	452	477	14310	46
Rolling Hi	453	551	13224	93
Rolling Hi	454	1657	39768	91
Rondeau La	455	1682	40368	100
Rondeau La	456	2471	59304	100
Rondeau La	457	3088	74112	100
Rondeau La	458	1505	36120	100
Rondeau La	461	678	16272	46
Rondeau La	462	1294	31056	100
Rondeau La	463	1966	47184	100
Rondeau La	464	2603	62472	100

Rondeau La	465	1349	32376	100
Ruffed Gro	467	362	10136	56
Ruffed Gro	468	357	9996	49
Ruffed Gro	469	631	17668	57
Ruffed Gro	470	270	7560	60
Rustic Lan	471	785	14130	24
Sandhill D	472	891	24948	44
Sandpiper	473	333	7326	94
Sargent Co	474	911	25508	79
Savanna Co	475	424	11024	70
Schlavin C	476	478	14340	49
Service Ro	477	460	11040	30
Service Ro	479	1361	32664	38
Shadow Cou	480	282	7896	94
Shadow Lak	481	407	11396	60
Shadow Lak	482	558	15624	100
Shadow Lak	483	2167	60676	100
Shadow Lak	484	1614	71016	85
Shadow Lak	485	3363	80712	95
Shadow Lak	487	331	7944	80
Shadow Lak	488	213	9372	93
Shadow Lak	489	157	6280	91
Shadow Lak	490	418	16720	91
Shadow Lak	491	498	19920	92
Shadow Lak	492	331	13240	93
Shadow Lak	493	846	20304	95
Shadow Lak	494	3327	79848	95
Shadow Lak	495	388	15520	93
Shadow Lak	496	538	21520	93
Sherman La	497	102	5100	95
Sherman La	498	229	6412	95
Sherman La	500	498	13944	69
Sherman La	501	1078	30184	95
Sherman La	502	1593	44604	68
Sherman La	503	516	14448	78
Sherman La	504	482	13496	93
Sherman La	505	611	17108	95
Sherman La	506	458	12824	95
Sherman La	507	324	9072	86
Sherwood L	508	493	18734	89
Sioux Cour	509	168	4704	61
Sioux Lane	511	358	10024	100
Sioux Trai	511	358	10024	64
Sioux Lane	512	637	17836	100

Sioux Trai	512	637	17836	64
Sioux Lane	513	289	8092	100
Sioux Trai	513	289	8092	64
Sioux Look	514	736	20608	56
Smoketree	515	603	16281	64
Smoketree	516	328	8856	59
Snow Owl C	518	393	11004	53
Snow Owl L	519	1361	38108	51
Snow Owl L	520	355	9940	58
South Glen	521	134	3752	92
South Glen	522	497	13916	74
South Glen	523	360	10080	90
Stage Coac	524	589	16492	95
Stage Coac	525	291	8148	95
Stage Coac	526	252	7056	95
Stage Coac	527	345	9660	95
Sunfish Co	529	266	7182	61
Sunflower	530	320	8640	58
Sunflower	531	208	5616	47
Sunflower	532	446	12042	65
Sunrise Dr	533	586	14064	53
Sunrise Dr	534	451	10824	56
Sunrise Dr	535	1003	24072	56
Sunrise Dr	536	1317	31608	53
Sunrise Ro	537	316	7584	72
Sunrise Ro	539	505	12120	58
Sunrise Ro	540	865	20760	67
Talle Lane	541	1130	33900	100
Tamarack L	542	571	15988	47
Tart Court	543	342	9576	95
Tart Lake	544	223	6244	74
Tart Lake	545	173	4844	77
Tart Lake	546	327	9156	65
Tart Lake	547	337	9436	72
Tart Lake	548	672	18816	74
Tart Lake	549	916	25648	83
Tart Lake	550	615	17220	93
Teal Court	551	650	18200	64
Teckla Cou	552	316	8848	70
Tele Drive	553	631	17668	69
Tele Lane	554	355	9940	76
Tele Lane	555	377	10556	70
Terra Cour	556	366	10248	37
Timberwolf	558	213	10224	95

Timberwolf	559	268	7504	56
Timberwolf	560	586	16408	55
Timberwolf	562	900	25200	52
Timberwolf	563	260	8320	95
Timberwolf	564	423	12690	95
Timberwolf	565	469	13132	94
Timberwolf	566	462	12936	53
Tomahawk C	567	253	7084	92
Tomahawk T	568	345	9660	92
Tomahawk T	569	292	8176	92
Tomahawk T	570	534	14952	92
Totem Trai	571	542	15176	92
Totem Trai	572	282	7896	92
Totem Trai	573	326	9128	99
Town Cente	574	756	33264	54
Town Cente	575	344	15136	52
Trappers C	576	327	9156	86
Trappers X	577	795	22260	77
Trappers X	579	398	11144	75
Trappers C	581	222	6216	88
Trappers C	582	322	9016	71
Trappers C	583	219	6132	64
Trappers C	584	254	7112	71
Trappers C	585	402	11256	80
Trappers C	587	441	12348	78
Ulmer Driv	588	928	25056	46
Ulmer Driv	589	643	17361	68
Ulmer Driv	590	374	10098	71
Velvetleaf	591	278	7784	83
Vicky Lane	592	1343	40290	74
Villiage D	595	792	17424	57
Ware Circl	596	206	5768	45
Ware Road	597	2630	92050	90
Ware Road	599	1045	36575	84
Ware Road	601	1461	51135	91
Ware Road	603	309	10815	90
Ware Road	605	571	15988	70
Whippoorwi	606	1329	37212	64
White Birc	607	578	16184	60
White Oak	608	497	13916	82
White Oak	609	453	12684	82
White Oak	610	233	6524	97
White Oak	611	852	23856	82
White Owl	612	726	20328	98

White Pine	613	208	5824	51
White Pine	614	1217	32859	59
White Pine	615	577	15579	70
White Pine	616	907	25396	70
Whitetail	617	412	12360	95
Whitetail	618	336	9408	83
Whitetail	619	556	15568	86
Wild Turke	620	700	19600	59
Wildflower	621	333	8991	49
Wildflower	622	604	16308	52
Wolf Circl	623	310	8680	66
Wood Duck	624	169	4732	81
Wood Duck	625	244	6832	60
Wood Duck	626	702	19656	90
Woodchuck	627	821	24630	95
Woodchuck	628	588	17640	95
Woodchuck	629	764	22920	95
Woodchuck	630	573	17190	95
Woodland D	636	1364	30008	20
Woodridge	638	1059	28593	87
Woodridge	639	1379	37233	90
Woodridge	640	1442	38934	89
Meadowlark	641	243	6804	80
Merganser	642	552	15456	95
Mineral Po	643	418	11704	93
Mourning D	644	334	9018	64
Mourning D	645	371	10017	59
Mourning D	646	486	13122	66
Muskrat Ru	647	331	9268	43
Mustang Co	648	352	9856	67
Mustang La	649	479	13412	81
Mustang La	650	365	10220	84
Mustang La	651	793	22204	81
Mustang La	652	498	13944	80
Myrtle Lan	653	766	21448	86
Nottingham	659	1319	39570	71
Oak Court	660	344	9632	84
Oak Court	661	370	10360	83
Oak Lane	662	2013	48312	86
Oak Lane	663	2256	40608	81
Oak Lane	664	839	20136	78
Oakwood Dr	668	570	15960	63
Oakwood La	669	587	16436	69
Oakwood La	670	530	14840	83

Old Birch	671	2139	51336	85
Olive Stre	672	498	11952	23
Olive Stre	673	799	19176	10
Orange Str	674	827	23156	9
Orange Str	675	1017	24408	42
Osprey Cou	676	523	14644	78
Otter Lake	679	1243	29832	43
Painted Tu	680	152	4256	51
Painted Tu	681	475	13300	94
Painted Tu	682	463	12964	62
Palomino L	683	358	10024	81
Palomino L	684	482	13496	75
Palomino L	685	803	22484	77
Palomino L	686	785	21980	81
Palomino L	687	698	19544	70
Palomino L	688	586	16408	77
Palomino L	689	643	18004	81
Parkview D	690	501	13527	82
Partridge	691	449	12572	95
Partridge	693	719	20132	100
Partridge	694	799	22372	100
Patti Driv	695	663	19890	85
Patti Driv	696	737	22110	77
Ware Road	942	625	21875	90
Ware Road	944	542	18970	100
Ware Road	947	241	6748	47
Nancy Driv	962	393	11790	72
Nancy Driv	963	1156	34680	50
Wood Duck	964	333	9324	84
Wood Duck	966	3123	87444	86
Wood Duck	967	679	19012	85
Bluebill L	968	883	24724	85
Fox Circle	970	173	4844	96
Holly Driv	971	340	8160	71
Holly Driv	972	287	6888	63
Holly Driv	973	583	13992	94
Holly Driv	974	760	18240	81
Holly Driv	975	899	21576	80
Holly Driv	976	3464	83136	92
Snow Goose	977	289	8092	95
Lamotte Dr	978	839	23492	88
Lacasse Co	980	275	7700	66
Lacasse Ci	981	244	6832	70
Rolling Hi	982	198	3960	94

Deer Pass	983	120	3360	93
Glenview L	984	824	22248	84
Knoll Driv	989	1019	28532	80
Coyote Tra	990	747	20916	33
Coyote Tra	991	773	21644	42
Coyote Tra	992	338	9464	52
South Glen	993	519	14532	83
Barbara La	994	543	15204	67
Pheasant R	995	399	11172	65
Hudson Tra	997	673	18844	80
Thomas Str	999	1349	40470	79
81st Stree	1000	1725	41400	8
64th Stree	1001	374	8976	27
Northern L	1002	356	12816	64
Aqua Lane	1004	450	16200	62
Aqua Lane	1005	303	7272	57
Aqua Lane	1006	307	7368	85
65th Stree	1007	750	18000	78
Holly Driv	1008	3894	93456	26
Holly Driv	1012	726	13068	35
Hunters Ri	1019	983	27524	45
Gladstone	1020	643	14146	30
Elm Street	1030	455	12740	77
Elm Street	1031	411	11508	79
Elm Street	1032	359	10052	77
Elm Street	1033	339	9492	64
Elm Street	1034	343	9604	59
Elm Street	1035	486	13608	71
Elm Street	1036	591	16548	59
Elm Street	1037	361	10108	69
Elm Street	1038	974	27272	71
Elm Street	1039	338	9464	68
Elm Street	1040	597	16716	67
Elm Street	1041	1071	29988	66
Lakeview D	1042	1307	31368	45
Lakeview D	1043	1325	31800	45
Lakeview D	1044	1324	31776	41
Lakeview D	1045	1316	31584	58
Cherokee T	1090	324	9072	83
Glenview D	1098	655	14410	93
Arlo Lane	1101	272	6800	82
Arlo Lane	1102	441	12789	78
Langer Lan	1103	456	11400	80
Langer Cir	1104	172	10320	84

Langer Lan	1105	700	17500	76
Hartford C	1106	165	7095	79
August Cir	1107	170	7310	76
Stella Cir	1108	135	5805	84
Stella Lan	1109	351	8424	81
Stella Lan	1110	528	12672	72
Stella Lan	1111	310	7440	82
Clearwater	1112	741	20748	80
Sherman La	1115	271	7588	81
Sherman La	1116	470	13160	80
Sedge Cour	1117	352	9856	78
Stoneybroo	1118	368	10304	83
Stoneybroo	1119	1616	45248	81
Pheasant H	1120	1134	31752	93
Oakview Co	1121	311	8708	78
Pheasant H	1122	983	27524	80
Goldenrod	1123	259	7252	81
Meadowview	1124	233	6524	74
Century Tr	1125	607	16996	85
Century Tr	1126	952	26656	71
Century Tr	1127	854	23912	76
Century Tr	1128	121	11132	85
Stallion L	1129	1355	37940	86
Pinto Lane	1130	291	8148	86
Pinto Lane	1131	551	15428	77
Arabian Ci	1132	315	8820	81
Molitor Dr	1133	781	21868	79
Langer Lan	1134	197	4925	76
Pheasant H	1135	298	8344	83
Pheasant H	1136	451	12628	78
Pheasant H	1137	403	11284	84
Sherman La	1138	730	20440	94
Baldwin La	1139	1803	37863	46
Arrowhead	1140	557	15596	88
Fox Road	1144	239	6692	79
Fox Road	1145	724	18824	84
Fox Road	1146	453	11778	74
Red Fox Ro	1147	784	20384	73
Red Fox Ro	1148	777	20202	75
Red Fox Ro	1149	196	5096	76
Red Fox Ro	1150	305	7930	74
Bubble	1151	100	12000	83
Fox Cove	1152	338	8788	78
Fox Hollow	1153	164	4264	84

Lakota Tra	1154	554	14404	88
Lakota Tra	1155	62	1612	94
Lakota Tra	1156	224	5824	85
Ojibway Pa	1158	1099	28574	92
Century Tr	1159	439	12292	79
Century Tr	1160	330	9240	71
Carpenter	1161	343	10976	100
Robinson D	1162	396	12672	81
Robinson D	1163	40	1280	88
Carl Stree	1164	597	16716	76
Clydesdale	1165	310	8680	73
Vaughan Co	1167	187	5236	86
Robinson D	1168	83	1992	85
4th Avenue	1169	546	13104	64
Ware Road	1170	677	16248	63
Arrowhead	1171	186	4464	94
Arrowhead	1172	759	18216	94
Linda Lane	1173	229	5496	85
Linda Lane	1174	444	10656	74
Ravens Cou	1175	351	8424	65
Ravens Cou	1176	531	12744	64
Ravens Cou	1177	473	11352	80
Oak Hollow	1178	976	23424	77
Royal Pine	1179	532	12768	57
Bald Eagle	1180	1194	28656	95
Bald Eagle	1181	1150	27600	95
Bald Eagle	1182	378	9072	95
Bald Eagle	1183	1395	33480	92
Bald Eagle	1184	643	15432	95
Elmcrest A	1185	243	5832	100
Elmcrest A	1186	622	14928	100
Elmcrest A	1187	915	21960	47
74th Stree	1188	628	15072	100
74th Stree	1189	367	8808	100
Lilac Stre	1191	895	25060	65
Town Cente	1195	618	24720	58
Villiage D	1196	864	34560	61
Marshan Co	1197	142	3408	53
Park Court	1198	561	17952	64
Park Court	1199	368	11776	75
Stage Coac	1200	132	4224	74
Stage Coac	1201	336	10752	68
Stage Coac	1202	174	5568	75
Marshan Co	1203	340	10880	71

Kelly Stre	1204	832	26624	89
Kelly Stre	1205	953	30496	86
Shelia Ave	1206	484	15488	80
Timothy Co	1207	202	6464	83
Kelly Stre	1208	380	12160	84
Wayne Cour	1209	201	6432	82
Kelly Stre	1210	621	19872	84
Jane Avenu	1211	183	5856	91
Kelly Stre	1212	891	28512	81
Lois Lane	1214	259	7770	84
Stage Coac	1218	342	10944	73
Aspen Lane	1220	164	4592	42
Lamotte Ci	1221	826	23128	93
Lois Lane	1222	520	15600	88
Woods Edge	1223	706	28240	58
Arrowhead	1224	276	6624	92
Lakota Tra	1225	198	5148	93
Apollo Cou	1226	433	11258	79
Aqua Circl	1227	2399	57576	65
Chippewa T	1232	263	7364	73
Elmcrest A	1233	5618	157304	69
Oakwood La	1250	622	17416	87
Cedar Stre	1251	1300	62400	100
Cedar Stre	1252	888	26640	79
Osprey Cou	1253	122	14640	91
Trappers C	1254	156	19032	97
Trappers X	1255	114	14136	99
Oak Hollow	1256	147	3528	83
NULL	1257	251	6024	100
Town Cente	1258	481	19240	57
Apollo Dri	1259	475	17100	85
Main St	1260	624	13728	100
Nordin Str	1261	221	6188	12
Robinson D	1263	426	13632	81
Lilac Stre	1264	1788	50064	78
Lilac Stre	1270	5164	144592	75
Willow Pon	1271	1102	37468	100
Apollo Dri	1272	1399	50364	100
Otter Lake	1273	1494	59760	100
NULL	1274	227	8172	100
NULL	1275	229	8244	100
Plum Ln	1276	925	33300	100
Channel Dr	1277	393	5895	100
Apple Ln	1278	872	32264	100

Baldwin Cr	1279	499	20459	100
Baldwin Cr	1280	196	7840	100
82nd St E	1281	915	13725	100
Gotland Ln	1282	284	5680	100
Morgan Lan	1283	558	11160	100
Shetland L	1284	461	9220	100
Morgan Lan	1285	477	9540	100
Market Pla	1286	1511	42308	100
Market Pla	1287	794	23026	100
Apollo Cou	1288	1054	29512	100
NULL	1289	251	7530	100
NULL	1290	259	7511	100
NULL	1291	224	6720	100
NULL	1292	230	7820	100
NULL	1293	222	7548	100
NULL	1294	277	9418	100
NULL	1295	274	9316	100
NULL	1296	300	10200	100
NULL	1297	271	9214	100
NULL	1298	236	8024	100
NULL	1299	228	7752	100
Willow Pon	1300	305	8540	100
Willow Pon	1301	273	7098	100
Willow Pon	1302	217	5642	100
Willow Pon	1303	315	8190	100
Willow Pon	1304	228	11400	100
Nancy Cour	1305	579	12738	100
Aqua Cir	1310	264	8976	100
Ivy Ridge	1311	332	13280	100
Ivy Ridge	1312	514	20560	100
Cherry Ln	1313	642	23112	100
Baldwin Cr	1314	173	8304	100
Baldwin Cr	1315	498	23406	100
Baldwin Cr	1316	171	7524	100
Ivy Ridge	1317	188	7896	100
Ivy Ridge	1318	1533	61320	100
Market Pla	1319	643	21219	100
Century Tr	1320	642	17976	84
Pine Stree	1321	1630	48900	100
Pine Stree	1322	2998	89940	100
Pine Stree	1323	3846	115380	99
Pine Stree	1324	1811	54330	98
Pine Stree	1327	1542	46260	100
Elmcrest A	1330	5575	150525	100

Elmcrest A	1331	2602	70254	100
NULL	1333	528	21120	58
Sioux Lane	1335	185	5180	93
Sioux Trai	1335	185	5180	98
Town Cente	1336	598	23920	55
Town Cente	1337	325	9100	61
Ash Street	1338	1173	32844	82
Ash Street	1339	889	24892	87
20th Ave S	1340	1332	37296	94
Pheasant R	1341	1506	42168	92
Killdeer D	1342	562	15736	91
Otter Lake	1343	427	31598	84
Cedar Stre	1344	1127	33810	78
Cedar Stre	1345	197	5910	76
Red Oak La	1346	560	22400	82
Cottonwood	1347	160	5280	87
Red Oak La	1348	246	9840	88
Red Oak La	1349	251	10040	86
Palm Stree	1350	1175	39950	95
21st Avenu	1351	274	10960	95
21st Avenu	1352	489	19560	95
Butternut	1354	145	4640	95
21st Avenu	1355	238	9520	86
Cedar Stre	1356	30	930	97
Pheasant R	1357	1118	40248	92
Saddle Clu	1358	182	6552	93
Pheasant R	1359	455	16380	93
Fox Road	1360	377	9802	93
Pheasant R	1361	321	11556	93
Robinson D	1362	450	19800	81
UNKNOWN	1362	165	4620	100
Cardinal W	1363	141	5358	84
UNKNOWN	1363	163	4564	100
Robinson D	1364	480	21120	87
Morell Dri	1365	149	5662	85
Robinson D	1366	618	27810	83
Town Cente	1367	335	32830	58
Sioux Trai	1368	412	15656	94
Enid Trail	1369	542	20596	94
Enid Trail	1370	1147	43586	93
Baldwin La	1371	632	8848	100
Black Berr	1372	460	16560	93
Fox Road	1373	779	20254	94
Haywood Dr	1374	324	8424	97

Cypress St	1375	278	10564	100
Cypress St	1376	737	29480	89
Enid Trail	1377	542	14092	100
Rosewood S	1377	1459	49606	87
Cypress St	1378	155	5890	86
Enid Trail	1378	1147	29822	100
Black Berr	1379	463	12038	96
Cypress St	1379	243	9234	87
Cypress St	1380	374	14212	87
Chestnut S	1381	325	11700	88
21st Ave S	1382	1211	39963	100
21st Avenu	1382	1219	48760	86
Dogwood Co	1383	345	12420	84
Dogwood Ct	1383	345	8280	100
21st Avenu	1384	473	18920	88
Chestnut S	1385	897	30498	87
Dogwood St	1386	249	7968	95
Ivywood Av	1386	249	5976	100
Redwood Av	1387	438	14892	95
Ivywood Av	1388	966	32844	95
21st Avenu	1389	2216	124096	84
21st Avenu	1390	740	29600	99
Watermark	1391	894	35760	100
21st Avenu	1392	543	21720	100
21st Avenu	1393	744	29760	100
Crane Driv	1394	230	9200	100
Balsam Way	1395	159.6622273	6386	100
Crane Driv	1395	544	21760	100
Balsam Way	1396	1307	52280	100
Crane Driv	1397	301	12040	100
Diamond La	1398	1264	50560	100
Forest Lan	1399	1349	53960	100
Emily Circ	1400	673	26920	100
Crane Driv	1401	814	32560	100
Watermark	1402	563	22520	100
Harriet La	1403	414	16560	100
Harriet La	1404	342	13680	100
Geneva Cou	1405	337	13480	100
Crane Driv	1406	366	14640	100
Crane Driv	1407	341	13640	100
Forest Lan	1408	385	15400	100
Eden Circl	1409	311	12440	100
Forest Lan	1410	312	12480	100
Rondeau La	1411	610	8540	100

Heritage A	1412	311	8086	100
Crane Driv	1413	401	16040	100
Heritage A	1414	213	5538	100
Josephine	1415	180	4680	100
Heritage A	1416	906	23556	100
Norma Way	1417	307	7982	100
Itasca Cir	1418	605	15730	100
Watermark	1419	286	7436	100
Johanna Ci	1420	534	13884	100
Watermark	1421	418	10868	100
Watermark	1422	732	19032	100
Watermark	1423	1131	29406	100
Forest Lan	1424	437	11362	100
Watermark	1425	638	16588	100
Red Oak La	1426	791	20566	100
Red Oak La	1427	559	14534	100
William La	1428	580	15080	100
Red Oak La	1429	195	5070	100
Fox Road	1430	432	11232	93
Private	1431	607	16996	100
N/A	1432	1147	34410	100
Cass Drive	1433	334	8684	100
Ada Drive	1434	346	8996	100
Bay Drive	1435	301	7826	100
Bay Drive	1436	482	12532	100
Bay Drive	1437	154	4004	100
Bay Drive	1438	188	4888	100
Dora Drive	1439	225	5850	100
Dora Drive	1440	402	10452	100
Ada Drive	1441	224	5824	100
Ada Drive	1442	150	3900	100
Elmo Court	1443	198	5148	100
Gull Drive	1444	146	3796	100
Fall Drive	1445	189	4914	100
Fall Drive	1446	230	5980	100
Gull Drive	1447	26	676	100
Gull Drive	1448	137	3562	100
Ada Drive	1449	227	5902	100
Ada Drive	1450	210	5460	100
Ada Drive	1451	210	5460	100
Ada Drive	1452	167	4342	100
Heron Cour	1453	214	5564	100
Island Cou	1454	194	5044	100
Jasper Cou	1455	228	5928	100

Bay Drive	1456	249	6474	100
Unknown	1457	983	25558	100
Eagle Cour	1458	111	2886	100
Eagle Cour	1459	114	2964	100
Eagle Cour	1460	479	12454	100
Eagle Cour	1461	225	5850	100
Eagle Cour	1462	73	1898	100
Eagle Cour	1463	339	8814	100
Eagle Cour	1464	73	1898	100
Eagle Cour	1465	217	5642	100
Haywood Dr	1466	213	5538	97
Hazelwood	1467	307	9210	95
Basswood D	1468	169	4394	96
Haywood Dr	1469	1259	32734	97
Glenwood D	1470	855	22230	96
Ellwood Co	1471	212	6360	96
Glenwood D	1472	256	20480	95
Haywood Dr	1473	448	11648	96
Private Ro	1474	494	10868	100
Blanchard	1475	455	12740	100
Blanchard	1476	629	17612	100
Blanchard	1477	371	10388	100
Hammerly C	1478	183	4026	100
Hammerly C	1479	300	6600	100
Hammerly C	1480	415	9130	100
Mille Lacs	1481	232	6496	100
Norway Lan	1482	71	1988	100
Norway Lan	1483	772	21616	100
Norway Lan	1484	969	27132	100
Koronis Ci	1485	600	16800	100
Norway Lan	1486	751	21028	100
Osakis Str	1487	97	2716	100
Norway Lan	1488	462	12936	100
Rainy Lane	1489	253	7084	100
Rainy Lane	1490	265	7420	100
Victoria C	1491	470	13160	100
Norway Lan	1492	558	15624	100
Osakis Lan	1493	176	4928	100
Rainy Lane	1494	566	15848	100
Rainy Lane	1495	122	3416	100
Rosemary W	1496	681	19068	100
70th Stree	1497	345	11040	100
Broken Oak	9778	301	8428	95
Aqua Lane	1006A	4770	114480	100

Elmcrest A	1233b	3554	99512	100
62nd Avenu	28A	141	3102	39