



October 20, 2009

CITY OF EDMONTON

2008 Natural Areas Loss Assessment

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FINAL REPORT

Report Number: 09-1372-0020



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1.0 BACKGROUND AND SCOPE

Over the past several decades the City of Edmonton (the City) has been working towards a management plan for urban natural areas associated with the Edmonton Tablelands and North Saskatchewan River Valley System within the City limits. In 2008, Golder Associates (Golder) was retained by the City to re-assess the natural areas as they were defined in previous work by Spencer (2006) and establish a program for annually assessing the rate of loss. The results of this work culminated in the Natural Areas Decision Guide and Loss Assessment (Golder 2008). Subsequent to this, the City contacted Golder Associates Ltd. (Golder) to complete the loss assessment for the 2007 to 2008 period.

The objective of this loss assessment was to document the annual rate of loss experienced by natural areas (NAs) from 2007 to 2008 and provide a cumulative assessment of loss over the entire period from 2000 to 2008. The results of the 2000 to 2008 loss assessment will bring the current status of natural areas in the City of Edmonton up-to-date and will help facilitate future planning and conservation strategies.

2.0 LOSS ASSESSMENT ANALYSIS

The annual rate of loss assessment involved a comparison of the delineated natural area polygons from the 2007 imagery to the 2008 imagery to determine the amount of area that had been lost over the year for each individual NA. The process for delineating and attributing natural area polygons followed the selection criteria developed as part of the Natural Areas Decision Guide and Loss Assessment (Golder 2008). The total area lost for each natural area, excluding those in the Transportation Utility Corridor (TUC), was calculated and reported for each year interval, along with a summary of the total number of natural areas lost.

Quality assurance and control procedures (QA/QC) were implemented during all stages of the project including selection criteria definition, application and subsequent loss assessment calculations. Once the selection criteria were applied to the imagery and polygons digitized for 2008, all attribute data in the GIS environment were reviewed for accuracy and consistency in attribute labelling. All calculations conducted as part of the project were also checked to make sure that the correct formulas, procedures or data sources were used.

3.0 NATURAL AREA LOSS ASSESSMENT RESULTS

Loss analysis results are presented as a direct analysis of loss for 2007 to 2008 and as a cumulative loss for the years 2000 to 2008. Loss results are summarized according to significance rank and city quadrant to provide context for evaluating losses in natural areas across the city. Loss results are also described in terms of the total number of natural areas lost and the total amount of area lost in a given time period. As the number of natural areas may increase from one year to the next due to potential splitting of polygons, the overall total number of natural areas present in one year may not be exactly the same as the previous year.

Additionally, differences in the North Saskatchewan River Valley and Ravine System (NSRV) totals between city quadrant summaries and significance rank summaries can be attributed to the fact that there are 7 polygons classified as ESAs within the NSRV boundary. This results in slightly different areas as the significance rank summaries include these 7 polygons under the ESA total, while the city quadrant summaries include these 7 polygons under the NSRV total as they fall within the NSRV boundary.

A graphical representation of the cumulative loss of natural areas from the year 2000 through to 2008 is provided in Appendix A, while Appendix B provides a detailed summary of the loss analysis for each natural area from 2007 to 2008.

3.1 Loss Analysis Year 2007 to 2008

The loss analysis from 2007 to 2008 showed that a total of 13 (2.5%) out of 528 natural areas were completely lost across the city and a total area of 95 ha (1.6%) was lost. Almost all of these areas were classified as NAs (Figure 1), with ESAs and NAs experiencing the greatest total losses in area (Figure 2; Table 1). Only one area



2008 NATURAL AREAS LOSS ASSESSMENT

within the NSRV was entirely lost during this time period, although the NSRV experienced a total loss of 5 ha. In terms of location, losses of entire natural areas were equally distributed across the NE, NW and SE quadrants of the city (Figure 3), with the NW quadrant experiencing the greatest amount of area lost at 52 ha (Figure 4; Table 2). The annual rate of NA loss over this time frame is 95 ha/year.

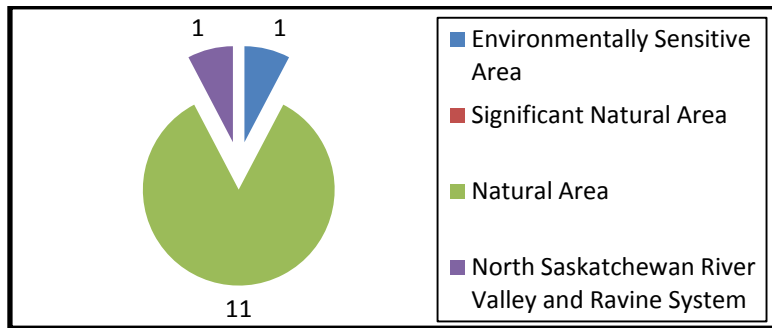


Figure 1: Number of Natural Areas Lost From 2007 to 2008 as Defined by Significance Rank

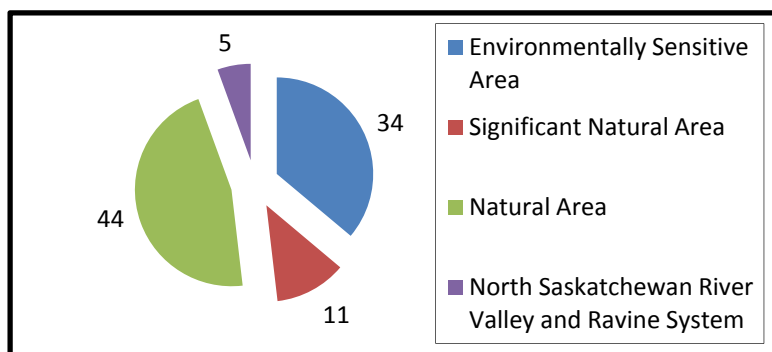


Figure 2: Total Area (Ha) of Natural Areas Lost From 2007 to 2008 as Defined by Significance Rank

Table 1: Summary of Total Area by Year and Total Area Lost by Significance Rank from 2007 to 2008

Significance Rank	2007	2008	2007-2008 Natural Area Loss	
	Total area (ha)	Total area (ha)	Total area (ha)	% loss
Environmentally Sensitive Area (ESA)	749	714	34	4.6
Significant Natural Area (SNA)	308	296	11	3.7
Natural Area (NA)	1418	1374	44	3.1
North Saskatchewan River Valley and Ravine System (NSRV)	3529	3523	5	0.1
Total	6003	5908	95	1.6

Note: Some numbers are rounded for presentation purposes. Therefore, it may appear that the totals do not equal the sum of the individual values.



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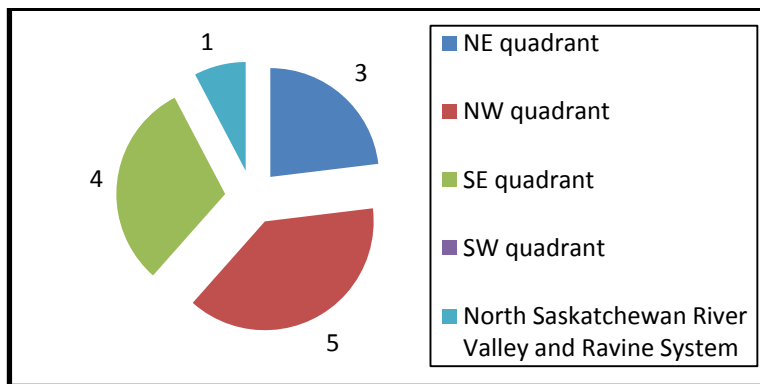


Figure 3: Number of Natural Areas Entirely Lost From 2007 to 2008 for Each City Quadrant

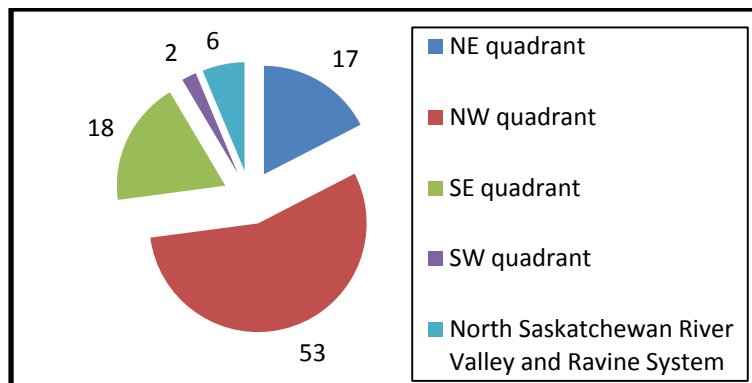


Figure 4: Total Area (Ha) of Natural Areas Lost From 2007 to 2008 by City Quadrant

Table 2: Summary of Total Area by Year and Total Area Lost by City Quadrant from 2007 to 2008

City Quadrant	2007	2008	2007-2008 Natural Area Loss	
	Total area (ha)	Total area (ha)	Total area (ha)	% loss
NE quadrant	583	566	17	2.8
NW quadrant	860	807	53	6.1
SE quadrant	658	640	18	2.7
SW quadrant	240	237	2	0.9
North Saskatchewan River Valley and Ravine System (NSRV)	3662	3656	6	0.2
Total	6003	5908	95	1.6

Note: Some numbers are rounded for presentation purposes. Therefore, it may appear that the totals do not equal the sum of the individual values.



3.2 Cumulative Loss Analysis Year 2000 to 2008

The cumulative loss analysis from 2000 to 2008 showed that a total of 102 out of 602 natural areas (16.9%) were completely lost across the city since 2000. The majority of areas lost during this time period were classified as NAs, and many of these were new areas that were identified in the 2000 imagery (Figure 5). The total amount of natural areas lost between 2000 and 2008 is 870 ha (8.2%), with NA and ESA natural areas experiencing the greatest total loss in area at 498 ha and 240 ha, respectively (Figure 6). The NSRV experienced the least amount of area lost during this time period at 1.4%, with only two areas being lost completely (Figure 5; Table 3).

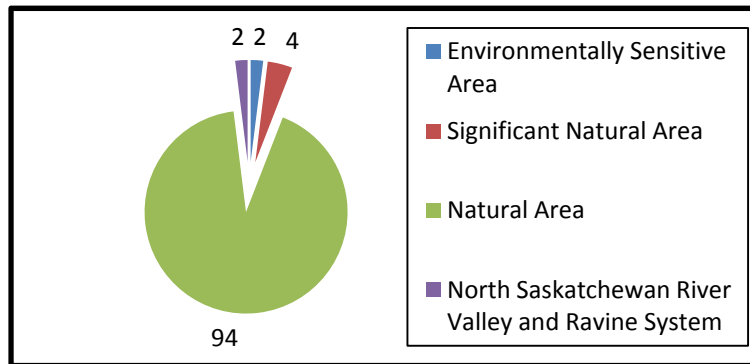


Figure 5: Number of Natural Areas Lost From 2000 to 2008 as Defined by Significance Rank

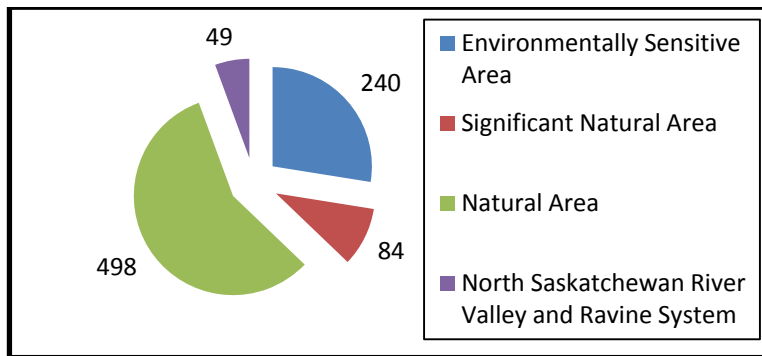


Figure 6: Total Area (Ha) of Natural Areas Lost From 2000 to 2008 as Defined by Significance Rank

Table 3: Summary of Total Area by Year and Total Area Lost by Significance Rank from 2000 to 2008

Significance Rank	2000	2008	2000-2008 Natural Area Loss	
	Total area (ha)	Total area (ha)	Total area (ha)	% loss
Environmentally Sensitive Area	954	714	240	25.1
Significant Natural Area	380	296	84	22.0
Natural Area	1917	1418	498	26.0
North Saskatchewan River Valley and Ravine System (NSRV)	3527	3479	49	1.4
Total	6778	5908	870	12.8

Note: Some numbers are rounded for presentation purposes. Therefore, it may appear that the totals do not equal the sum of the individual values.



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Most of the natural area that were entirely lost since 2000 occurred in the NE, NW and SW quadrants of the city, all of which have undergone substantial development over the past number of years (Figure 7). However, in terms of total area lost during the 2000 to 2008 time period, the NW quadrant has experienced the greatest losses at 428 ha, with less substantial natural area losses occurring in the NE and SE quadrants of the city (Figure 8; Table 4).

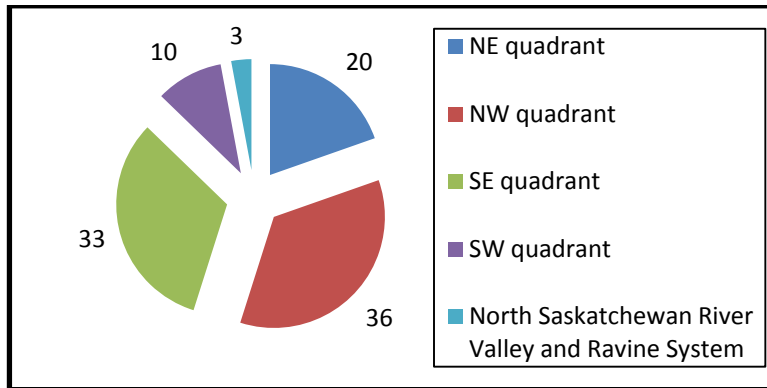


Figure 7: Number of Natural Areas Lost From 2000 to 2008 for Each City Quadrant

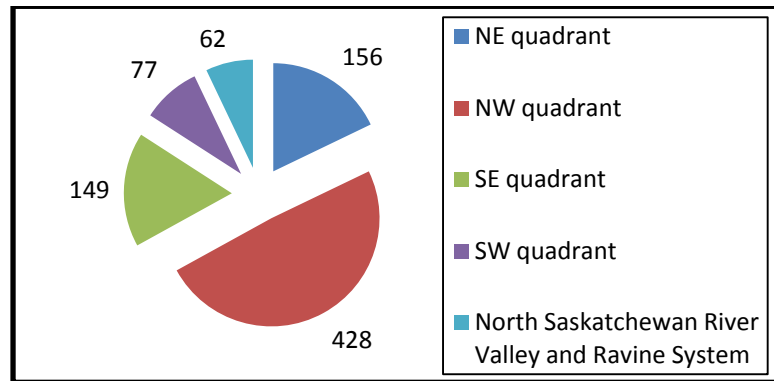


Figure 8: Total Area (Ha) of Natural Areas Lost From 2000 to 2008 by City Quadrant

Table 4: Summary of Total Area by Year and Total Area Lost by City Quadrant from 2000 to 2008

City Quadrant	2000	2008	2000-2008 Natural Area Loss	
	Total area (ha)	Total area (ha)	Total area (ha)	% loss
NE quadrant	722	566	156	21.6
NW quadrant	1235	807	428	34.6
SE quadrant	790	640	149	18.9
SW quadrant	314	237	77	24.4
North Saskatchewan River Valley and Ravine System (NSRV)	3718	3656	62	1.7
Total	6778	5908	870	12.8

Note: Some numbers are rounded for presentation purposes. Therefore, it may appear that the totals do not equal the sum of the individual values.



4.0 SUMMARY

Over the past several decades the City of Edmonton (the City) has been working towards a management plan for urban natural areas associated with the Edmonton Tablelands and North Saskatchewan River Valley System within the City limits, part of which assessed natural area loss over time. The results of the loss analysis from 2007 to 2008 show that an additional 13 (2.5%) natural areas were completely lost in 2008 and a total area of 95 ha (1.6%) was lost. Additionally, the annual rate of loss of natural areas increased from the 2006 to 2007 period to the 2007 to 2008 period, which is likely a response to the increase in land development during this time period. Previously there had been a decline in natural area loss from the 2005 to 2006 period to the 2006 to 2007 period, though there was an increase in annual loss rates from 2000 to 2005 period to the 2006 to 2007 period (Figure 9). However, as these results are only based on a limited number of years it is difficult to ascertain any potential trends in the rate of natural area loss of over time. There is also inherent variability in natural area loss from one year to the next, as the average rate of annual natural area loss signifies the total area lost and does not necessary reflect the size and number of NAs that have been impacted. Thus, the annual loss for any one annual period may reflect the loss of numerous, small NAs or a few larger NAs.

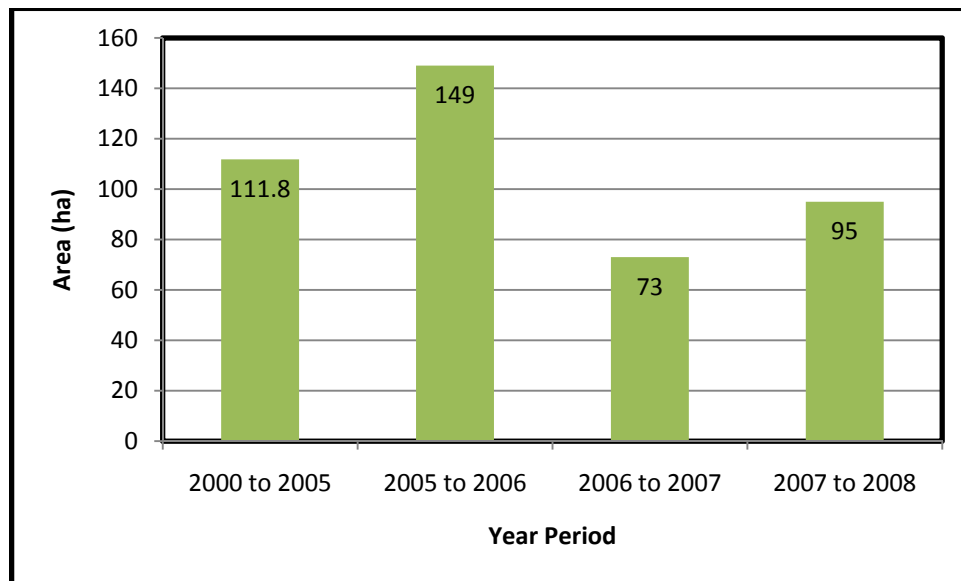


Figure 9: Average Rate of Annual Natural Area Loss from 2000 to 2008



5.0 LITERATURE CITED

(Golder) Golder Associates Ltd. 2008. Natural Areas Decision Guide and Loss Assessment. Prepared for the Office of Natural Areas, City of Edmonton.

(Spencer) Spencer Environmental Management Services Ltd. 2006. State of Natural Areas Project: Natural Areas Summary Report. Prepared for the Office of Natural Areas, City of Edmonton.

Closure

We trust the above meets your present requirements. If you have any questions or require additional details, please contact the undersigned.

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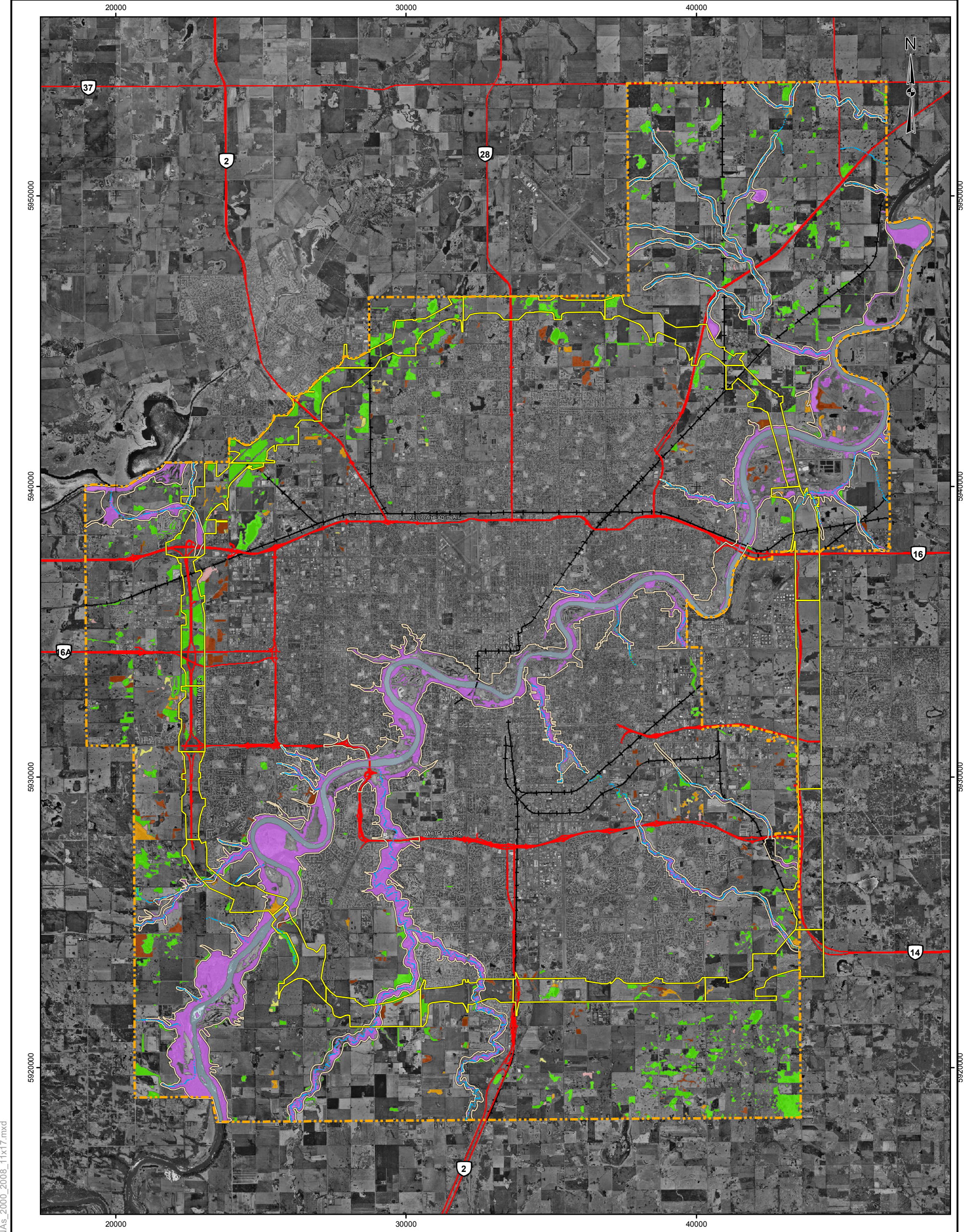
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APPENDIX A

Natural Area Lost Between 2000 and 2008



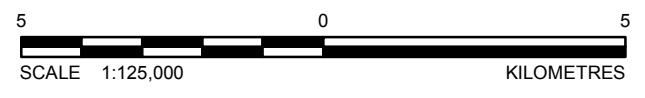
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- | | | |
|------------------------------|---|---|
| EXISTING NATURAL AREA | | DRAINAGE |
| RIVER VALLEY* | HIGHWAY | RAILWAY |
| TABLELAND* | CITY LIMIT | NORTH SASKATCHEWAN RIVER VALLEY AREA REDEVELOPMENT PLAN |
| NORTH SASKATCHEWAN RIVER* | TRANSPORTATION AND UTILITY CORRIDOR (TUC) | |
| NATURAL AREA LOST | | |
| 2000 - 2005* | | |
| 2005 - 2006* | | |
| 2006 - 2007* | | |
| 2007 - 2008* | | |

*Symbol appears transparent on map

REFERENCE

2000 air photo mosaic and base data provided by the Office of Natural Areas, City of Edmonton.
 Projection: 3TM (Central Meridian = -114°) Datum: NAD 83



PROJECT		CITY OF EDMONTON NATURAL AREAS LOSS ASSESSMENT	
TITLE		NATURAL AREAS LOST BETWEEN 2000 AND 2008	
PROJECT NO. 09-1372-0020		SCALE AS SHOWN	REV. 0
DESIGN	LV	16 Sep. 2009	FIGURE: 1
GIS	HR	16 Sep. 2009	
CHECK	LV	15 Oct. 2009	
REVIEW	CD	15 Oct. 2009	



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APPENDIX B

Natural Area Loss Summaries by Year and Polygon Number



2008 NATURAL AREAS LOSS ASSESSMENT

City Quadrant	Significance Rank	Year 2007		Year 2008		2007 to 2008 Loss	
		2007 Natural Area Lable	Area (ha)	2008 Natural Area Lable	Area (ha)	Area (ha)	%
RV	RV	001 RV	9.76	001 RV	9.76	0.00	0.0
RV	RV	002 RV	19.60	002 RV	19.60	0.00	0.0
RV	RV	003 RV	8.72	003 RV	8.72	0.00	0.0
RV	RV	004 RV	1.25	004 RV	1.25	0.00	0.0
RV	RV	005 RV	6.97	005 RV	6.41	0.56	8.0
RV	RV	006 RV	27.72	006 RV	27.72	0.00	0.0
RV	RV	007 RV	29.99	007 RV	29.99	0.00	0.0
RV	RV	008 RV	19.41	008 RV	19.41	0.00	0.0
RV	RV	009 RV	8.63	009 RV	8.63	0.00	0.0
RV	RV	010 RV	19.68	010 RV	19.68	0.00	0.0
RV	RV	011 RV	10.33	011 RV	10.33	0.00	0.0
RV	RV	012 RV	3.12	012 RV	3.12	0.00	0.0
RV	RV	013 RV	101.76	013 RV	101.76	0.00	0.0
RV	RV	014 RV	33.50	014 RV	33.50	0.00	0.0
RV	RV	015 RV	84.66	015 RV	84.66	0.00	0.0
RV	RV	016 RV	2.06	016 RV	2.06	0.00	0.0
RV	RV	017 RV	8.87	017 RV	8.87	0.00	0.0
RV	RV	018 RV	1.40	018 RV	1.40	0.00	0.0
RV	RV	019 RV	2.18	019 RV	2.18	0.00	0.0
RV	RV	020 RV	4.82	020 RV	4.82	0.00	0.0
RV	RV	021 RV	9.26	021 RV	9.26	0.00	0.0
RV	RV	022 RV	29.08	022 RV	29.08	0.00	0.0
RV	RV	023 RV	47.80	023 RV	45.94	1.86	3.9
RV	RV	024 RV	2.51	024 RV	2.51	0.00	0.0
RV	RV	025 RV	2.86			2.86	100.0
RV	RV	026 RV	4.26	026 RV	4.26	0.00	0.0
RV	ESA	027 RV	41.32	027 RV	41.32	0.00	0.0
RV	ESA	029 RV	54.78	029 RV	54.78	0.00	0.0
RV	RV	030 RV	47.42	030 RV	47.42	0.00	0.0
RV	RV	031 RV	1.48	031 RV	1.48	0.00	0.0
RV	ESA	032 RV	4.07	032 RV	4.07	0.00	0.0
RV	ESA	034 RV	5.92	034 RV	5.92	0.00	0.0
RV	ESA	035 RV	5.40	035 RV	4.69	0.71	13.1



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City Quadrant	Significance Rank	Year 2007		Year 2008		2007 to 2008 Loss	
		2007 Natural Area Lable	Area (ha)	2008 Natural Area Lable	Area (ha)	Area (ha)	%
RV	RV	036 RV	1.34	036 RV	1.34	0.00	0.0
RV	RV	037 RV	1.53	037 RV	1.53	0.00	0.0
RV	RV	039 RV	2.94	039 RV	2.94	0.00	0.0
RV	ESA	041 RV	9.01	041 RV	9.01	0.00	0.0
RV	RV	042 RV	3.90	042 RV	3.90	0.00	0.0
RV	RV	043 RV	4.99	043 RV	4.99	0.00	0.0
RV	RV	044 RV	1.74	044 RV	1.74	0.00	0.0
RV	RV	045 RV	98.73	045 RV	98.73	0.00	0.0
RV	RV	046 RV	24.73	046 RV	24.73	0.00	0.0
RV	RV	047 RV	1.43	047 RV	1.43	0.00	0.0
RV	RV	048 RV	170.46	048 RV	170.46	0.00	0.0
RV	RV	049 RV	3.25	049 RV	3.25	0.00	0.0
RV	RV	050 RV	1.07	050 RV	1.07	0.00	0.0
RV	RV	051 RV	5.10	051 RV	5.10	0.00	0.0
RV	RV	052 RV	19.22	052 RV	19.22	0.00	0.0
RV	RV	053 RV	6.31	053 RV	6.31	0.00	0.0
RV	RV	054 RV	36.28	054 RV	36.28	0.00	0.0
RV	RV	055 RV	92.34	055 RV	92.34	0.00	0.0
RV	RV	056 RV	7.05	056 RV	7.05	0.00	0.0
RV	RV	057 RV	1.97	057 RV	1.97	0.00	0.0
RV	RV	058 RV	516.64	058 RV	516.64	0.00	0.0
RV	RV	059 RV	12.73	059 RV	12.73	0.00	0.0
RV	RV	060 RV	2.92	060 RV	2.92	0.00	0.0
RV	RV	061 RV	1.85	061 RV	1.85	0.00	0.0
RV	RV	062 RV	1.57	062 RV	1.57	0.00	0.0
RV	RV	064 RV	430.83	064 RV	430.83	0.00	0.0
RV	RV	065 RV	17.15	065 RV	17.15	0.00	0.0
RV	RV	066 RV	1.61	066 RV	1.61	0.00	0.0
RV	RV	067 RV	2.17	067 RV	2.17	0.00	0.0
RV	RV	068 RV	5.51	068 RV	5.51	0.00	0.0
RV	RV	069 RV	113.63	069 RV	113.63	0.00	0.0
RV	RV	070 RV	23.15	070 RV	23.15	0.00	0.0
RV	RV	071 RV	10.23	071 RV	10.23	0.00	0.0



2008 NATURAL AREAS LOSS ASSESSMENT

City Quadrant	Significance Rank	Year 2007		Year 2008		2007 to 2008 Loss	
		2007 Natural Area Lable	Area (ha)	2008 Natural Area Lable	Area (ha)	Area (ha)	%
RV	RV	072 RV	2.64	072 RV	2.64	0.00	0.0
RV	RV	073 RV	3.83	073 RV	3.83	0.00	0.0
RV	ESA	074 RV	13.29	074 RV	13.29	0.00	0.0
RV	RV	075 RV	18.17	075 RV	18.17	0.00	0.0
RV	RV	076 RV	12.42	076 RV	12.42	0.00	0.0
RV	RV	077 RV	35.38	077 RV	35.38	0.00	0.0
RV	RV	078 RV	3.50	078 RV	3.50	0.00	0.0
RV	RV	079 RV	1.59	079 RV	1.59	0.00	0.0
RV	RV	080 RV	2.59	080 RV	2.59	0.00	0.0
RV	RV	081 RV	7.95	081 RV	7.95	0.00	0.0
RV	RV	082 RV	8.26	082 RV	8.26	0.00	0.0
RV	RV	083 RV	14.05	083 RV	14.05	0.00	0.0
RV	RV	084 RV	1.22	084 RV	1.22	0.00	0.0
RV	RV	085 RV	569.19	085 RV	569.19	0.00	0.0
RV	RV	086 RV	92.48	086 RV	92.48	0.00	0.0
RV	RV	087 RV	1.76	087 RV	1.76	0.00	0.0
RV	RV	088 RV	1.13	088 RV	1.13	0.00	0.0
RV	RV	089 RV	3.48	089 RV	3.48	0.00	0.0
RV	RV	090 RV	7.32	090 RV	7.32	0.00	0.0
RV	RV	091 RV	2.54	091 RV	2.54	0.00	0.0
RV	RV	092 RV	3.34	092 RV	3.34	0.00	0.0
RV	RV	093 RV	2.29	093 RV	2.29	0.00	0.0
RV	RV	098 RV	469.41	098 RV	469.41	0.00	0.0
RV	RV	099 RV	1.46	099 RV	1.46	0.00	0.0
RV	RV	100 RV	1.22	100 RV	1.22	0.00	0.0
RV	RV	101 RV	1.71	101 RV	1.71	0.00	0.0
RV	RV	103 RV	10.00	103 RV	10.00	0.00	0.0
RV	RV	104 RV	4.36	104 RV	4.36	0.00	0.0
RV	RV	105 RV	1.61	105 RV	1.61	0.00	0.0
RV	RV	106 RV	1.66	106 RV	1.66	0.00	0.0
RV	RV	107 RV	1.32	107 RV	1.32	0.00	0.0
RV	RV	108 RV	1.76	108 RV	1.76	0.00	0.0
RV	RV	109 RV	20.79	109 RV	20.79	0.00	0.0



2008 NATURAL AREAS LOSS ASSESSMENT

City Quadrant	Significance Rank	Year 2007		Year 2008		2007 to 2008 Loss	
		2007 Natural Area Lable	Area (ha)	2008 Natural Area Lable	Area (ha)	Area (ha)	%
RV	RV	110 RV	44.59	110 RV	44.59	0.00	0.0
NE	NA	NE 001	15.05	NE 001	15.05	0.00	0.0
NE	ESA	NE 002	8.99	NE 002	8.99	0.00	0.0
NE	SNA	NE 10	19.12	NE 10	19.12	0.00	0.0
NE	NA	NE 113	7.48	NE 113	7.48	0.00	0.0
NE	NA	NE 122	1.45	NE 122	1.45	0.00	0.0
NE	NA	NE 127	11.25	NE 127	11.25	0.00	0.0
NE	NA	NE 13	2.14	NE 13	2.14	0.00	0.0
NE	NA	NE 133	7.21	NE 133	7.21	0.00	0.0
NE	NA	NE 137	3.58	NE 137	3.58	0.00	0.0
NE	NA	NE 138	2.02	NE 138	2.02	0.00	0.0
NE	NA	NE 139	1.00	NE 139	1.00	0.00	0.0
NE	NA	NE 142	2.99	NE 142	2.99	0.00	0.0
NE	NA	NE 152	1.04	NE 152	1.04	0.00	0.0
NE	NA	NE 171	6.18	NE 171	6.18	0.00	0.0
NE	NA	NE 179	9.68	NE 179	9.68	0.00	0.0
NE	NA	NE 18	6.53	NE 18	6.53	0.00	0.0
NE	NA	NE 20	3.98	NE 20	3.98	0.00	0.0
NE	NA	NE 219	5.18	NE 219	5.18	0.00	0.0
NE	SNA	NE 221	6.56	NE 221	6.56	0.00	0.0
NE	SNA	NE 235A	1.05	NE 235A	1.05	0.00	0.0
NE	SNA	NE 235B	1.42	NE 235B	1.42	0.00	0.0
NE	ESA	NE 24	12.38	NE 24	12.38	0.00	0.0
NE	SNA	NE 244	5.84	NE 244	4.40	1.45	24.8
NE	NA	NE 27	2.61	NE 27	2.61	0.00	0.0
NE	NA	NE 277	0.66	NE 277	0.66	0.00	0.0
NE	NA	NE 28	6.12	NE 28	6.12	0.00	0.0
NE	NA	NE 3	1.19	NE 3	1.19	0.00	0.0
NE	NA	NE 31	6.39	NE 31	6.39	0.00	0.0
NE	NA	NE 32	3.07	NE 32	3.07	0.00	0.0
NE	NA	NE 38	2.61	NE 38	2.61	0.00	0.0
NE	NA	NE 40	1.56	NE 40	1.56	0.00	0.0
NE	NA	NE 42	13.57	NE 42	13.57	0.00	0.0



2008 NATURAL AREAS LOSS ASSESSMENT

City Quadrant	Significance Rank	Year 2007		Year 2008		2007 to 2008 Loss	
		2007 Natural Area Lable	Area (ha)	2008 Natural Area Lable	Area (ha)	Area (ha)	%
NE	NA	NE 46	2.35	NE 46	2.35	0.00	0.0
NE	NA	NE 500	3.96	NE 500	3.96	0.00	0.0
NE	NA	NE 501	4.80	NE 501	4.80	0.00	0.0
NE	NA	NE 502	1.19	NE 502	1.19	0.00	0.0
NE	NA	NE 503	2.30	NE 503	2.30	0.00	0.0
NE	NA	NE 504	7.34	NE 504	7.34	0.00	0.0
NE	NA	NE 505	1.42	NE 505	1.42	0.00	0.0
NE	NA	NE 506	5.01	NE 506	5.01	0.00	0.0
NE	NA	NE 507	1.09	NE 507	1.09	0.00	0.0
NE	NA	NE 508	2.32	NE 508	2.32	0.00	0.0
NE	NA	NE 509	18.20	NE 509	14.11	4.09	22.5
NE	NA	NE 513	4.15	NE 513	4.15	0.00	0.0
NE	NA	NE 514	1.13	NE 514	1.13	0.00	0.0
NE	NA	NE 515	2.09	NE 515	2.09	0.00	0.0
NE	NA	NE 52	3.42	NE 52	3.42	0.00	0.0
NE	NA	NE 522	1.35	NE 522	1.35	0.00	0.0
NE	NA	NE 523	2.36	NE 523	2.36	0.00	0.0
NE	NA	NE 524	1.49	NE 524	1.49	0.00	0.0
NE	NA	NE 526	4.74	NE 526	4.74	0.00	0.0
NE	NA	NE 528	1.04			1.04	100.0
NE	NA	NE 530	3.84	NE 530	3.84	0.00	0.0
NE	NA	NE 531	4.65	NE 531	4.65	0.00	0.0
NE	NA	NE 532	4.54	NE 532	4.54	0.00	0.0
NE	NA	NE 533	0.62	NE 533	0.62	0.00	0.0
NE	NA	NE 54	3.66	NE 54	3.66	0.00	0.0
NE	NA	NE 57	3.86	NE 57	3.86	0.00	0.0
NE	NA	NE 59	3.27	NE 59	3.27	0.00	0.0
NE	NA	NE 69	1.91	NE 69	1.91	0.00	0.0
NE	NA	NE 73	1.47			1.47	100.0
NE	NA	NE 74	3.64	NE 74	3.64	0.00	0.0
NE	SNA	NE 8	11.98	NE 8	11.98	0.00	0.0
NE	SNA	NE 8002	21.46	NE 8002	21.46	0.00	0.0
NE	SNA	NE 8003	10.24	NE 8003	10.24	0.00	0.0



2008 NATURAL AREAS LOSS ASSESSMENT

City Quadrant	Significance Rank	Year 2007		Year 2008		2007 to 2008 Loss	
		2007 Natural Area Lable	Area (ha)	2008 Natural Area Lable	Area (ha)	Area (ha)	%
NE	SNA	NE 8005		NE 8005B	8.35		
NE	SNA	NE 8005	10.20	NE 8005A	0.25	1.60	15.7
NE	SNA	NE 8006	7.97	NE 8006	7.97	0.00	0.0
NE	SNA	NE 8010	6.65	NE 8010	6.65	0.00	0.0
NE	SNA	NE 8011A	5.60	NE 8011A	5.60	0.00	0.0
NE	NA	NE 8020	10.41	NE 8020	10.41	0.00	0.0
NE	ESA	NE 8081B	6.59	NE 8081B	6.59	0.00	0.0
NE	ESA	NE 8082	4.67	NE 8082	4.67	0.00	0.0
NE	NA	NE 8094	10.98	NE 8094	10.98	0.00	0.0
NE	ESA	NE 8096	11.21	NE 8096	11.21	0.00	0.0
NE	SNA	NE 8097	2.75	NE 8097	2.75	0.00	0.0
NE	ESA	NE 8099	23.28	NE 8099	22.32	0.96	4.1
NE	NA	NE 8100	2.21	NE 8100	2.21	0.00	0.0
NE	NA	NE 8101	3.30	NE 8101	3.30	0.00	0.0
NE	NA	NE 8102	1.89	NE 8102	1.89	0.00	0.0
NE	NA	NE 8103	1.25	NE 8103	1.25	0.00	0.0
NE	NA	NE 8104	1.11	NE 8104	1.11	0.00	0.0
NE	NA	NE 8105	1.26	NE 8105	1.26	0.00	0.0
NE	NA	NE 8106	1.28	NE 8106	1.28	0.00	0.0
NE	NA	NE 8107	1.87	NE 8107	1.87	0.00	0.0
NE	NA	NE 8108	4.51	NE 8108	4.51	0.00	0.0
NE	NA	NE 8109	1.35	NE 8109	1.35	0.00	0.0
NE	NA	NE 8110	1.01	NE 8110	1.01	0.00	0.0
NE	NA	NE 8111	1.65	NE 8111	1.65	0.00	0.0
NE	NA	NE 8117	3.15	NE 8117	3.15	0.00	0.0
NE	NA	NE 8118	2.46			2.46	100.0
NE	NA	NE 8123	0.97	NE 8123	0.97	0.00	0.0
NE	NA	NE 8125	5.50	NE 8125	5.50	0.00	0.0
NE	NA	NE 8128	13.02	NE 8128	13.02	0.00	0.0
NE	NA	NE 8129	2.32	NE 8129	2.32	0.00	0.0
NE	NA	NE 8130	8.19	NE 8130	8.19	0.00	0.0
NE	NA	NE 8131	9.51	NE 8131	9.51	0.00	0.0
NE	NA	NE 8134	2.02	NE 8134	2.02	0.00	0.0



2008 NATURAL AREAS LOSS ASSESSMENT

City Quadrant	Significance Rank	Year 2007		Year 2008		2007 to 2008 Loss	
		2007 Natural Area Lable	Area (ha)	2008 Natural Area Lable	Area (ha)	Area (ha)	%
NE	NA	NE 8135	1.82	NE 8135	1.82	0.00	0.0
NE	NA	NE 8136	2.73	NE 8136	2.73	0.00	0.0
NE	NA	NE 8137	4.09	NE 8137	4.09	0.00	0.0
NE	NA	NE 8138	3.87	NE 8138	3.87	0.00	0.0
NE	NA	NE 8139	3.18	NE 8139	3.18	0.00	0.0
NE	NA	NE 8140	1.91	NE 8140	1.91	0.00	0.0
NE	NA	NE 8141	5.17	NE 8141	5.17	0.00	0.0
NE	NA	NE 8142	4.72	NE 8142	4.72	0.00	0.0
NE	NA	NE 8143	3.20	NE 8143	3.20	0.00	0.0
NE	NA	NE 8144	1.15	NE 8144	1.15	0.00	0.0
NE	NA	NE 8145	2.14	NE 8145	2.14	0.00	0.0
NE	NA	NE 8146	8.70	NE 8146	8.70	0.00	0.0
NE	NA	NE 8147	3.38	NE 8147	3.38	0.00	0.0
NE	NA	NE 8148	1.32	NE 8148	1.32	0.00	0.0
NE	NA	NE 8149	1.10	NE 8149	1.10	0.00	0.0
NE	NA	NE 8150	1.71	NE 8150	1.71	0.00	0.0
NE	NA	NE 8151		NE 8151A	7.17		
NE	NA	NE 8151	11.05	NE 8151B	0.41	3.46	31.4
NE	NA	NE 8152	1.11	NE 8152	1.11	0.00	0.0
NE	NA	NE 8156	2.03	NE 8156	2.03	0.00	0.0
NE	NA	NE 8157	1.86	NE 8157	1.86	0.00	0.0
NE	NA	NE 8158	1.49	NE 8158	1.49	0.00	0.0
NE	SNA	NE 84	7.42	NE 84	7.42	0.00	0.0
NE	NA	NE 86	3.74	NE 86	3.74	0.00	0.0
NE	NA	NE 89	5.80	NE 89	5.80	0.00	0.0
NE	NA	NE 9	1.26	NE 9	1.26	0.00	0.0
NW	NA	NW 10	22.38	NW 10	22.38	0.00	0.0
NW	NA	NW 117	2.49	NW 117	2.49	0.00	0.0
NW	NA	NW 122	2.10	NW 122	2.10	0.00	0.0
NW	NA	NW 139	3.36	NW 139	3.36	0.00	0.0
NW	NA	NW 142	1.34	NW 142	1.34	0.00	0.0
NW	NA	NW 161	5.18	NW 161	5.18	0.00	0.0
NW	NA	NW 167	12.18	NW 167	12.18	0.00	0.0



2008 NATURAL AREAS LOSS ASSESSMENT

City Quadrant	Significance Rank	Year 2007		Year 2008		2007 to 2008 Loss	
		2007 Natural Area Lable	Area (ha)	2008 Natural Area Lable	Area (ha)	Area (ha)	%
NW	NA	NW 16A	5.57	NW 16A	5.57	0.00	0.0
NW	NA	NW 16B	1.93	NW 16B	1.93	0.00	0.0
NW	NA	NW 195	1.10	NW 195	1.10	0.00	0.0
NW	ESA	NW 254	6.29	NW 254	4.60	1.70	27.0
NW	NA	NW 264	5.21	NW 264	5.21	0.00	0.0
NW	ESA	NW 275	3.62	NW 275	3.62	0.00	0.0
NW	NA	NW 279	3.80	NW 279	3.80	0.00	0.0
NW	NA	NW 292A	13.70	NW 292A	10.78	2.92	21.3
NW	NA	NW 292B	2.88			2.88	100.0
NW	ESA	NW 302A	13.22	NW 302A	10.76	2.46	18.6
NW	ESA	NW 302B	1.63	NW 302B	1.00	0.64	39.0
NW	ESA	NW 318	49.06	NW 318	49.06	0.00	0.0
NW	NA	NW 328	2.76	NW 328	2.76	0.00	0.0
NW	SNA	NW 339	6.49	NW 339	6.49	0.00	0.0
NW	ESA	NW 354	10.36	NW 354	10.36	0.00	0.0
NW	ESA	NW 355	38.33	NW 355	38.33	0.00	0.0
NW	NA	NW 358	2.05	NW 358	2.05	0.00	0.0
NW	NA	NW 37	2.99	NW 37	2.99	0.00	0.0
NW	NA	NW 384	23.91	NW 384	23.91	0.00	0.0
NW	NA	NW 386	7.46	NW 386	6.92	0.55	7.3
NW	NA	NW 390	8.63	NW 390	8.63	0.00	0.0
NW	NA	NW 46	10.56	NW 46	10.56	0.00	0.0
NW	NA	NW 602	1.75	NW 602	1.75	0.00	0.0
NW	NA	NW 603	4.92	NW 603	4.92	0.00	0.0
NW	NA	NW 604	3.34	NW 604	3.34	0.00	0.0
NW	ESA	NW 616	2.72	NW 616	2.72	0.00	0.0
NW	NA	NW 619	18.74	NW 619	18.74	0.00	0.0
NW	NA	NW 623	1.95	NW 623	1.95	0.00	0.0
NW	NA	NW 624	2.33	NW 624	2.33	0.00	0.0
NW	NA	NW 631	7.85	NW 631	7.85	0.00	0.0
NW	NA	NW 633	7.76	NW 633	7.76	0.00	0.0
NW	NA	NW 638	3.12	NW 638	3.12	0.00	0.0
NW	NA	NW 639	6.41	NW 639	6.41	0.00	0.0



2008 NATURAL AREAS LOSS ASSESSMENT

City Quadrant	Significance Rank	Year 2007		Year 2008		2007 to 2008 Loss	
		2007 Natural Area Lable	Area (ha)	2008 Natural Area Lable	Area (ha)	Area (ha)	%
NW	NA	NW 641	1.02	NW 641	1.02	0.00	0.0
NW	NA	NW 642A	6.27	NW 642A	6.27	0.00	0.0
NW	NA	NW 642B	3.81	NW 642B	3.81	0.00	0.0
NW	NA	NW 643	5.74	NW 643	5.74	0.00	0.0
NW	NA	NW 644	1.77	NW 644	1.77	0.00	0.0
NW	NA	NW 645	7.67	NW 645	7.67	0.00	0.0
NW	NA	NW 646	5.15			5.15	100.0
NW	SNA	NW 65	2.48	NW 65	2.48	0.00	0.0
NW	NA	NW 650	3.26	NW 650	3.26	0.00	0.0
NW	NA	NW 651	1.34	NW 651	1.34	0.00	0.0
NW	NA	NW 652	1.41	NW 652	1.41	0.00	0.0
NW	NA	NW 66	1.32	NW 66	1.32	0.00	0.0
NW	NA	NW 660	1.83			1.83	100.0
NW	NA	NW 662	1.64	NW 662	1.64	0.00	0.0
NW	NA	NW 663	21.15	NW 663	21.15	0.00	0.0
NW	NA	NW 68	1.99	NW 68	1.99	0.00	0.0
NW	NA	NW 70	9.74	NW 70	9.74	0.00	0.0
NW	SNA	NW 7004B		NW 7004C	0.34		
NW	SNA	NW 7004B	4.81	NW 7004B	0.53	3.94	81.9
NW	ESA	NW 7009A	21.66	NW 7009A	17.43	4.23	19.5
NW	ESA	NW 7009B	19.09	NW 7009B	16.36	2.73	14.3
NW	ESA	NW 7009C	4.03	NW 7009C	2.85	1.18	29.4
NW	ESA	NW 7009D	1.32			1.32	100.0
NW	ESA	NW 7010A	5.90	NW 7010A	5.90	0.00	0.0
NW	ESA	NW 7010B	7.97	NW 7010B	7.97	0.00	0.0
NW	ESA	NW 7010C	2.77	NW 7010C	2.77	0.00	0.0
NW	ESA	NW 7010D	5.30	NW 7010D	5.30	0.00	0.0
NW	SNA	NW 7011A	4.97	NW 7011A	4.97	0.00	0.0
NW	SNA	NW 7011B	1.25	NW 7011B	1.25	0.00	0.0
NW	ESA	NW 7012	2.89	NW 7012	2.89	0.00	0.0
NW	ESA	NW 7016	22.45	NW 7016	22.45	0.00	0.0
NW	NA	NW 7017A	2.88	NW 7017A	2.88	0.00	0.0
NW	ESA	NW 7018A	1.18	NW 7018A	1.18	0.00	0.0



2008 NATURAL AREAS LOSS ASSESSMENT

City Quadrant	Significance Rank	Year 2007		Year 2008		2007 to 2008 Loss	
		2007 Natural Area Lable	Area (ha)	2008 Natural Area Lable	Area (ha)	Area (ha)	%
NW	ESA	NW 7018B	17.12	NW 7018B	17.12	0.00	0.0
NW	SNA	NW 7021	12.20	NW 7021	12.20	0.00	0.0
NW	ESA	NW 7024	13.11	NW 7024	13.11	0.00	0.0
NW	ESA	NW 7026	51.50	NW 7026	51.50	0.00	0.0
NW	SNA	NW 7035A	30.53	NW 7035A	30.53	0.00	0.0
NW	SNA	NW 7035B	1.05	NW 7035B	1.05	0.00	0.0
NW	ESA	NW 7051A	25.55	NW 7051A	9.52	16.03	62.7
NW	ESA	NW 7051B	1.88	NW 7051B	1.88	0.00	0.0
NW	ESA	NW 7060A	29.45	NW 7060A	29.45	0.00	0.0
NW	SNA	NW 7090B	2.28	NW 7090B	2.28	0.00	0.0
NW	NA	NW 7100	1.29	NW 7100	1.29	0.00	0.0
NW	NA	NW 7101	1.19	NW 7101	1.19	0.00	0.0
NW	NA	NW 7104	1.60	NW 7104	1.60	0.00	0.0
NW	NA	NW 7112	1.41	NW 7112	1.41	0.00	0.0
NW	NA	NW 7113	1.59	NW 7113	1.59	0.00	0.0
NW	NA	NW 7114	1.74	NW 7114	1.74	0.00	0.0
NW	NA	NW 7115	6.53	NW 7115	6.53	0.00	0.0
NW	NA	NW 7120	1.43	NW 7120	1.43	0.00	0.0
NW	NA	NW 7121	1.08	NW 7121	1.08	0.00	0.0
NW	NA	NW 7122	1.92	NW 7122	1.92	0.00	0.0
NW	NA	NW 7123	2.03	NW 7123	2.03	0.00	0.0
NW	NA	NW 7129	1.40			1.40	100.0
NW	NA	NW 7134	1.03	NW 7134	1.03	0.00	0.0
NW	NA	NW 7135	1.12	NW 7135	1.12	0.00	0.0
NW	NA	NW 7138	1.16	NW 7138	1.16	0.00	0.0
NW	NA	NW 7139	1.79	NW 7139	1.79	0.00	0.0
NW	NA	NW 7140	2.18	NW 7140	2.18	0.00	0.0
NW	NA	NW 7141	14.40	NW 7141	14.40	0.00	0.0
NW	NA	NW 7144	5.52	NW 7144	5.52	0.00	0.0
NW	NA	NW 7146	3.55	NW 7146	3.55	0.00	0.0
NW	NA	NW 7147	4.41	NW 7147	4.41	0.00	0.0
NW	NA	NW 7148	0.90	NW 7148	0.90	0.00	0.0
NW	NA	NW 7151	3.20	NW 7151	3.20	0.00	0.0



2008 NATURAL AREAS LOSS ASSESSMENT

City Quadrant	Significance Rank	Year 2007		Year 2008		2007 to 2008 Loss	
		2007 Natural Area Lable	Area (ha)	2008 Natural Area Lable	Area (ha)	Area (ha)	%
NW	NA	NW 7152	4.83	NW 7152	4.83	0.00	0.0
NW	NA	NW 7153	1.09	NW 7153	1.09	0.00	0.0
NW	NA	NW 7155	1.33	NW 7155	1.33	0.00	0.0
NW	NA	NW 7156	1.66	NW 7156	1.66	0.00	0.0
NW	NA	NW 7157	1.57	NW 7157	1.57	0.00	0.0
NW	NA	NW 7158A	2.21	NW 7158A	2.21	0.00	0.0
NW	NA	NW 7158B	4.06	NW 7158B	4.06	0.00	0.0
NW	NA	NW 7160	2.32	NW 7160	2.32	0.00	0.0
NW	NA	NW 7161	2.10	NW 7161	2.10	0.00	0.0
NW	NA	NW 7162	1.25	NW 7162	1.25	0.00	0.0
NW	NA	NW 7164	8.12	NW 7164	8.12	0.00	0.0
NW	NA	NW 7165	1.02	NW 7165	1.02	0.00	0.0
NW	NA	NW 7166	5.91	NW 7166	5.91	0.00	0.0
NW	NA	NW 7167	4.40	NW 7167	4.40	0.00	0.0
NW	NA	NW 7169	1.09	NW 7169	1.09	0.00	0.0
NW	NA	NW 7170	1.00	NW 7170	1.00	0.00	0.0
NW	NA	NW 7171	3.73	NW 7171	3.73	0.00	0.0
NW	NA	NW 7172	2.63	NW 7172	2.63	0.00	0.0
NW	NA	NW 7173	1.66	NW 7173	1.66	0.00	0.0
NW	NA	NW 7174	2.23	NW 7174	2.23	0.00	0.0
NW	NA	NW 76	3.82	NW 76	3.82	0.00	0.0
NW	NA	NW 77	1.82	NW 77	1.82	0.00	0.0
NW	NA	NW 8	2.34	NW 8	2.34	0.00	0.0
NW	SNA	NW 8091	32.83	NW 8091	29.20	3.63	11.1
SE	NA	SE 106	2.13	SE 106	2.13	0.00	0.0
SE	NA	SE 110	11.05	SE 110	11.05	0.00	0.0
SE	NA	SE 114	1.70	SE 114	1.70	0.00	0.0
SE	NA	SE 119	18.76	SE 119	18.76	0.00	0.0
SE	NA	SE 12	6.88	SE 12	1.29	5.59	81.2
SE	NA	SE 130	1.93	SE 130	1.93	0.00	0.0
SE	NA	SE 132	5.64	SE 132	5.64	0.00	0.0
SE	NA	SE 135	6.99	SE 135	6.99	0.00	0.0
SE	NA	SE 174	2.70	SE 174	2.70	0.00	0.0



2008 NATURAL AREAS LOSS ASSESSMENT

City Quadrant	Significance Rank	Year 2007		Year 2008		2007 to 2008 Loss	
		2007 Natural Area Lable	Area (ha)	2008 Natural Area Lable	Area (ha)	Area (ha)	%
SE	NA	SE 197	4.32	SE 197	4.32	0.00	0.0
SE	NA	SE 199	7.36	SE 199	7.36	0.00	0.0
SE	NA	SE 206	4.27	SE 206	4.27	0.00	0.0
SE	NA	SE 225	1.51	SE 225	1.51	0.00	0.0
SE	ESA	SE 238	7.50	SE 238	7.50	0.00	0.0
SE	NA	SE 32	4.04	SE 32	4.04	0.00	0.0
SE	NA	SE 400	1.36	SE 400	1.36	0.00	0.0
SE	NA	SE 401	1.01	SE 401	1.01	0.00	0.0
SE	NA	SE 402	2.69	SE 402	2.69	0.00	0.0
SE	NA	SE 403	9.90	SE 403	9.90	0.00	0.0
SE	NA	SE 404	1.79	SE 404	1.79	0.00	0.0
SE	NA	SE 405	1.55	SE 405	1.55	0.00	0.0
SE	NA	SE 406	7.45	SE 406	4.66	2.80	37.5
SE	NA	SE 407	1.17	SE 407	1.17	0.00	0.0
SE	NA	SE 408	2.49	SE 408	2.49	0.00	0.0
SE	NA	SE 411	2.54	SE 411	2.54	0.00	0.0
SE	NA	SE 412	1.98	SE 412	1.98	0.00	0.0
SE	NA	SE 413	2.57	SE 413	2.57	0.00	0.0
SE	NA	SE 414	7.23	SE 414	7.23	0.00	0.0
SE	NA	SE 415	13.63	SE 415	13.63	0.00	0.0
SE	NA	SE 416	8.47	SE 416	8.47	0.00	0.0
SE	NA	SE 417	13.83	SE 417	13.83	0.00	0.0
SE	ESA	SE 5002A	27.51	SE 5002A	27.51	0.00	0.0
SE	ESA	SE 5002B	29.69	SE 5002B	29.69	0.00	0.0
SE	SNA	SE 5004	75.23	SE 5004	75.23	0.00	0.0
SE	NA	SE 5005	44.93	SE 5005	44.93	0.00	0.0
SE	ESA	SE 5007	25.44	SE 5007	25.44	0.00	0.0
SE	ESA	SE 5008	27.74	SE 5008A	6.54	1.07	3.9
SE	ESA	SE 5008		SE 5008C	13.39		
SE	ESA	SE 5008		SE 5008B	6.74		
SE	ESA	SE 5010	30.96	SE 5010	30.96	0.00	0.0
SE	SNA	SE 5012	7.07	SE 5012	7.07	0.00	0.0
SE	ESA	SE 5016	9.88	SE 5016B	3.74	1.21	12.2



2008 NATURAL AREAS LOSS ASSESSMENT

City Quadrant	Significance Rank	Year 2007		Year 2008		2007 to 2008 Loss	
		2007 Natural Area Lable	Area (ha)	2008 Natural Area Lable	Area (ha)	Area (ha)	%
SE	ESA	SE 5016		SE 5016A	4.93		
SE	ESA	SE 5090	4.46	SE 5090	4.46	0.00	0.0
SE	NA	SE 5092	2.49			2.49	100.0
SE	ESA	SE 5093B	1.01	SE 5093B	1.01	0.00	0.0
SE	ESA	SE 5094B	8.95	SE 5094B	8.95	0.00	0.0
SE	SNA	SE 5094A	1.34	SE 5094A	1.34	0.00	0.0
SE	NA	SE 5097	4.13	SE 5097	4.13	0.00	0.0
SE	NA	SE 5100	1.69	SE 5100	1.69	0.00	0.0
SE	NA	SE 5101A	10.24	SE 5101A	10.24	0.00	0.0
SE	NA	SE 5101B	2.41	SE 5101B	2.41	0.00	0.0
SE	NA	SE 5102	11.75	SE 5102	11.75	0.00	0.0
SE	NA	SE 5103	1.48	SE 5103	1.48	0.00	0.0
SE	NA	SE 5105	3.32	SE 5105	3.32	0.00	0.0
SE	NA	SE 5106	2.42	SE 5106	2.42	0.00	0.0
SE	NA	SE 5107	1.06	SE 5107	1.06	0.00	0.0
SE	NA	SE 5109	3.50	SE 5109	3.50	0.00	0.0
SE	NA	SE 5110	2.81	SE 5110	2.81	0.00	0.0
SE	NA	SE 5115	1.63	SE 5115	1.63	0.00	0.0
SE	NA	SE 5116	1.13	SE 5116	1.13	0.00	0.0
SE	NA	SE 5117	3.41	SE 5117	3.41	0.00	0.0
SE	NA	SE 5118	1.59	SE 5118	1.59	0.00	0.0
SE	NA	SE 5119A	9.01	SE 5119A	9.01	0.00	0.0
SE	NA	SE 5119B	1.95	SE 5119B	1.95	0.00	0.0
SE	NA	SE 5120	2.44	SE 5120	2.44	0.00	0.0
SE	NA	SE 5121	2.14	SE 5121	2.14	0.00	0.0
SE	NA	SE 5122	1.28	SE 5122	1.28	0.00	0.0
SE	NA	SE 5123	3.65	SE 5123	3.65	0.00	0.0
SE	NA	SE 5124	2.97	SE 5124	2.97	0.00	0.0
SE	NA	SE 5125	2.98	SE 5125	2.98	0.00	0.0
SE	NA	SE 5126	1.61	SE 5126	1.61	0.00	0.0
SE	NA	SE 5128	2.08	SE 5128	2.08	0.00	0.0
SE	NA	SE 5132	4.11	SE 5132	4.11	0.00	0.0
SE	NA	SE 5134	1.12			1.12	100.0



2008 NATURAL AREAS LOSS ASSESSMENT

City Quadrant	Significance Rank	Year 2007		Year 2008		2007 to 2008 Loss	
		2007 Natural Area Lable	Area (ha)	2008 Natural Area Lable	Area (ha)	Area (ha)	%
SE	NA	SE 5135	1.06	SE 5135	1.06	0.00	0.0
SE	NA	SE 5136	2.24	SE 5136	2.24	0.00	0.0
SE	NA	SE 5137	3.05	SE 5137	2.37	0.69	22.5
SE	NA	SE 5138	1.90	SE 5138	1.90	0.00	0.0
SE	NA	SE 5139	2.20	SE 5139	2.20	0.00	0.0
SE	NA	SE 5140	1.47	SE 5140	1.47	0.00	0.0
SE	NA	SE 5141	1.77	SE 5141	1.77	0.00	0.0
SE	NA	SE 5142	1.28	SE 5142	1.28	0.00	0.0
SE	NA	SE 5150	1.08	SE 5150	1.08	0.00	0.0
SE	NA	SE 5152	1.45	SE 5152	1.45	0.00	0.0
SE	NA	SE 5153	4.42	SE 5153	4.42	0.00	0.0
SE	NA	SE 5154	1.92	SE 5154	1.92	0.00	0.0
SE	NA	SE 5155	2.25	SE 5155	2.25	0.00	0.0
SE	NA	SE 5156	1.53	SE 5156	1.53	0.00	0.0
SE	NA	SE 5157	1.24			1.24	100.0
SE	NA	SE 5158	4.16	SE 5158	4.16	0.00	0.0
SE	NA	SE 5159	2.72	SE 5159	2.72	0.00	0.0
SE	NA	SE 5160	1.88	SE 5160	1.88	0.00	0.0
SE	NA	SE 5161	1.52	SE 5161	1.52	0.00	0.0
SE	NA	SE 5162	1.32	SE 5162	1.32	0.00	0.0
SE	NA	SE 5164	3.18	SE 5164	3.18	0.00	0.0
SE	NA	SE 5165	3.50	SE 5165	3.50	0.00	0.0
SE	NA	SE 5166	2.04	SE 5166	2.04	0.00	0.0
SE	NA	SE 5167	1.44	SE 5167	1.44	0.00	0.0
SE	NA	SE 5171	1.50	SE 5171	1.50	0.00	0.0
SE	NA	SE 5175	1.00	SE 5175	1.00	0.00	0.0
SE	NA	SE 5177	7.17	SE 5177	7.17	0.00	0.0
SE	NA	SE 5180	1.11	SE 5180	1.11	0.00	0.0
SE	NA	SE 5181	1.54	SE 5181	1.54	0.00	0.0
SE	NA	SE 5183	2.66	SE 5183	2.66	0.00	0.0
SE	NA	SE 5184	7.77	SE 5184	7.77	0.00	0.0
SE	NA	SE 5185	2.12	SE 5185	2.12	0.00	0.0
SE	NA	SE 5186	2.62	SE 5186	2.62	0.00	0.0



2008 NATURAL AREAS LOSS ASSESSMENT

City Quadrant	Significance Rank	Year 2007		Year 2008		2007 to 2008 Loss	
		2007 Natural Area Lable	Area (ha)	2008 Natural Area Lable	Area (ha)	Area (ha)	%
SE	NA	SE 5187	1.92	SE 5187	1.92	0.00	0.0
SE	NA	SE 5188	7.46	SE 5188	7.46	0.00	0.0
SE	NA	SE 5189	2.13	SE 5189	2.13	0.00	0.0
SE	NA	SE 5191	1.42			1.42	100.0
SE	NA	SE 5192	1.47	SE 5192	1.47	0.00	0.0
SE	NA	SE 65	1.79	SE 65	1.79	0.00	0.0
SE	NA	SE 73	3.68	SE 73	3.68	0.00	0.0
SE	NA	SE 74	3.51	SE 74	3.51	0.00	0.0
SE	NA	SE 8	3.26	SE 8	3.26	0.00	0.0
SE	NA	SE 9	2.30	SE 9	2.30	0.00	0.0
SW	SNA	SW 1	2.06	SW 1	2.06	0.00	0.0
SW	ESA	SW 2	3.42	SW 2	3.42	0.00	0.0
SW	NA	SW 26	5.73	SW 26	5.73	0.00	0.0
SW	NA	SW 27	1.65	SW 27	1.65	0.00	0.0
SW	SNA	SW 31	3.40	SW 31	2.61	0.79	23.4
SW	NA	SW 40	3.81	SW 40	3.81	0.00	0.0
SW	NA	SW 51	1.90	SW 51	1.90	0.00	0.0
SW	ESA	SW 6001	7.91	SW 6001	7.91	0.00	0.0
SW	ESA	SW 6002	1.48	SW 6002	1.48	0.00	0.0
SW	NA	SW 6104	1.03	SW 6104	1.03	0.00	0.0
SW	NA	SW 6106	7.04	SW 6106	7.04	0.00	0.0
SW	NA	SW 6107	1.69	SW 6107	1.69	0.00	0.0
SW	NA	SW 6110	1.41	SW 6110	1.41	0.00	0.0
SW	NA	SW 6112	1.30	SW 6112	1.30	0.00	0.0
SW	NA	SW 6113	2.43	SW 6113	2.43	0.00	0.0
SW	NA	SW 6114	2.14	SW 6114	2.14	0.00	0.0
SW	NA	SW 6115	1.55	SW 6115	1.55	0.00	0.0
SW	NA	SW 6116	2.30	SW 6116	2.30	0.00	0.0
SW	NA	SW 6117	4.59	SW 6117	4.59	0.00	0.0
SW	NA	SW 6118	3.42	SW 6118	3.42	0.00	0.0
SW	NA	SW 6119	8.34	SW 6119	8.34	0.00	0.0
SW	NA	SW 6120	1.94	SW 6120	1.94	0.00	0.0
SW	NA	SW 6121	7.53	SW 6121	7.53	0.00	0.0



2008 NATURAL AREAS LOSS ASSESSMENT

City Quadrant	Significance Rank	Year 2007		Year 2008		2007 to 2008 Loss	
		2007 Natural Area Lable	Area (ha)	2008 Natural Area Lable	Area (ha)	Area (ha)	%
SW	NA	SW 6122	1.29	SW 6122	1.29	0.00	0.0
SW	NA	SW 6123	1.69	SW 6123	1.69	0.00	0.0
SW	NA	SW 6124	1.87	SW 6124	1.87	0.00	0.0
SW	NA	SW 6125	1.66	SW 6125	1.66	0.00	0.0
SW	NA	SW 6126	1.27	SW 6126	1.27	0.00	0.0
SW	NA	SW 6127	5.02	SW 6127	5.02	0.00	0.0
SW	NA	SW 6128	1.14	SW 6128	1.14	0.00	0.0
SW	NA	SW 6129	2.16	SW 6129	2.16	0.00	0.0
SW	NA	SW 6130	1.25	SW 6130	1.25	0.00	0.0
SW	NA	SW 6131	2.99	SW 6131	2.99	0.00	0.0
SW	NA	SW 6132	1.22	SW 6132	1.22	0.00	0.0
SW	NA	SW 6133	1.17	SW 6133	1.17	0.00	0.0
SW	NA	SW 6134	1.75	SW 6134	1.75	0.00	0.0
SW	NA	SW 6135	3.44	SW 6135	3.44	0.00	0.0
SW	NA	SW 6136	1.92	SW 6136	1.92	0.00	0.0
SW	NA	SW 6137	1.77	SW 6137	1.77	0.00	0.0
SW	NA	SW 6138	4.02	SW 6138	4.02	0.00	0.0
SW	NA	SW 6139	1.07	SW 6139	0.53	0.54	50.6
SW	NA	SW 6140	2.92	SW 6140	2.92	0.00	0.0
SW	NA	SW 6141	2.28	SW 6141	2.28	0.00	0.0
SW	NA	SW 6142	1.15	SW 6142	1.15	0.00	0.0
SW	NA	SW 6143	1.40	SW 6143	1.40	0.00	0.0
SW	NA	SW 6144	3.33	SW 6144	3.33	0.00	0.0
SW	NA	SW 6145	14.16	SW 6145	14.16	0.00	0.0
SW	NA	SW 6146	1.74	SW 6146	1.74	0.00	0.0
SW	NA	SW 6147	1.14	SW 6147	1.14	0.00	0.0
SW	NA	SW 7	3.88	SW 7	3.88	0.00	0.0
SW	NA	SW 700	1.62	SW 700	1.62	0.00	0.0
SW	NA	SW 701	2.64	SW 701	2.64	0.00	0.0
SW	NA	SW 702	1.54	SW 702	1.54	0.00	0.0
SW	NA	SW 703	2.00	SW 703	2.00	0.00	0.0
SW	NA	SW 704	18.52	SW 704	18.52	0.00	0.0
SW	NA	SW 707	18.09	SW 707	18.09	0.00	0.0



2008 NATURAL AREAS LOSS ASSESSMENT

City Quadrant	Significance Rank	Year 2007		Year 2008		2007 to 2008 Loss	
		2007 Natural Area Lable	Area (ha)	2008 Natural Area Lable	Area (ha)	Area (ha)	%
SW	NA	SW 710	1.87	SW 710	1.87	0.00	0.0
SW	NA	SW 711	2.19	SW 711	2.19	0.00	0.0
SW	NA	SW 712	36.74	SW 712	35.98	0.76	2.1
SW	NA	SW 7175	2.87	SW 7175	2.87	0.00	0.0
SW	SNA	SW 74	1.42	SW 74	1.42	0.00	0.0
SW	ESA	SW 86	3.32	SW 86	3.32	0.00	0.0

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