BC Plant Health Care Inc.
Arborist Report

JOB NAME:	City of Delta 20200805
RE:	Arborist Report for a Tree Resource Evaluation
SITE:	Winskill Park 5575 9 Ave, Delta, BC V4M 1W1
PREPARED FOR:	Luke Chapman Senior Project Manager City of Delta Office: 604-946-3290 Mobile: 604-356-3705 Email: lchapman@delta.ca
DATE:	September 1st, 2020
PROJECT ARBORIST:	Philip Kin Cho ISA Certified Arborist #HK-1086AM ISA Certified Arborist Municipal Specialist ISA Tree Risk Assessment Qualification Forester in Training #5727 BSSc, MSc, MSFM
REVIEWED BY:	Thomas Walz ISA Board Certified Master Arborist #PN-5960BT ISA Tree Risk Assessment Qualification WUAA/HEBC Falling & Bucking Endorsement #98 TCIA Certified Treecare Safety Professional #866 BC C of Q Arborist Technician #00017-TA-10 BC C of Q Climbing Arborist #00007-TB-13 ITA Registered Climbing Arborist Assessor Member – American Society of Consulting Arborists

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MEMBER TCIA VOICE OF TREE CARE
BBB ACCREDITED BUSINESS
Keeping it **Green**... One Tree at a Time. ™

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1.0 Summary

The tree inventory includes [444] trees. Cedar, alder, and birch trees are the dominant species within the area of assessment. The inventoried trees are generally in fair or poor health and condition. The majority of trees have moderate or poor retention suitability.

Table 1. Tree retention suitability.

Tree Retention Suitability		Quantity
Good	Trees in this category are in good health and structural stability and have the potential for longevity at the site.	7
Moderate	Trees in this category are in fair health and/or have structural defects that may be mitigated with treatment. These trees may require more intense management and monitoring and may have shorter lifespans than those in the "good" category.	214
Poor	Trees in this category are in poor health or have significant defects in structure that cannot be mitigated with treatment. These trees can be expected to decline regardless of management. The species or individual tree may possess characteristics that are incompatible or undesirable in landscape settings or be unsuited for the intended use of the site.	223
	Total	**444**

The inventoried trees did not meet the moderate risk reporting threshold. However, there are dead and dying cedar trees targeting the west side of the parking lot, and dead and dying alder and birch trees targeting the backyards of the properties at the southwest of the area of assessment. Dead and dying alder trees targeting the open area were also observed at the northwest area of assessment.

Removal of these dead and dying trees is recommended for public safety.

2.0 Introduction

BC Plant Health Care Inc. has been contracted by Luke Chapman of the City of Delta to prepare an *Arborist Report for a Tree Resource Evaluation* for the area identified on the map dated August 5th, 2020 (Winskill_Park_Arborist_Assessment, Aug 5, 2020_1596666594.pdf). The scope of work was to tag, inventory, and assess trees greater than 20 cm diameter at breast height (DBH). The purpose of the assignment was to evaluate the tree resources and assist with future management decisions.

I, Philip Kin Cho, of BC Plant Health Care Inc. visited the site and performed the assessment on August 26th, 27th, 28th, and 30th, 2020. The fieldwork was conducted with the map downloaded from the City of Delta's Online Mapping System DeltaMap. Aluminum tree tags #537-980 were fixed to [444] trees.

Tools used were:

- A diameter tape
- A carpenter's tape
- A mallet for testing soundness
- A camera for documenting findings

The inventory was conducted for the [444] trees to collect information about location, species, DBH, estimated height, live crown ratio, age category, average dripline radius, minimum critical root zone, general health and condition, notable risk conditions, overall risk in the current setting (moderate risk reporting threshold - International Society of Arboriculture (ISA) Tree Risk Assessment Qualification (TRAQ) model), and retention suitability. Photographs were taken during the assessment to document observations.

This *Report* was produced based on the topographic survey provided by Luke Chapman (Winskill Park topo.dwg). An *Aerial Site Map* and a *Tree Retention Suitability Map* are included at the end of this *Report*.

This *Report* was completed on September 1st, 2020

3.0 Observations & Discussion

The tree inventory includes [444] trees:

Table 2. Tree species.

Common Name	Botanical Name	Quantity
Hedge maple	*Acer campestre*	1
Vine maple	*Acer circinatum*	4
Bigleaf maple	*Acer macrophyllum*	6
Norway maple	*Acer platanoides*	1
Red maple	*Acer rubrum*	2
Alder	*Alnus* sp.	115
Birch	*Betula* sp.	80
Deodar cedar	*Cedrus deodara*	2
Ginkgo	*Ginkgo biloba*	2
Chinese witchhazel	*Hamamelis mollis*	1
Persian ironwood	*Parrotia persica*	2
Blue spruce	*Picea pungens*	1
Pine	*Pinus* sp.	6
Cottonwood	*Populus* sp.	27
Cherry	*Prunus* sp.	1
Douglas-fir	*Pseudotsuga menziesii*	6
Pin oak	*Quercus palustris*	2
Red oak	*Quercus rubra*	1
Cedar	*Thuja* sp.	182
Linden	*Tilia* sp.	2
	Total	**444**

Table 3. Tree retention suitability.

Tree Retention Suitability		Quantity
Good	Trees in this category are in good health and structural stability and have the potential for longevity at the site.	7
Moderate	Trees in this category are in fair health and/or have structural defects that may be mitigated with treatment. These trees may require more intense management and monitoring and may have shorter lifespans than those in the "good" category.	214
Poor	Trees in this category are in poor health or have significant defects in structure that cannot be mitigated with treatment. These trees can be expected to decline regardless of management. The species or individual tree may possess characteristics that are incompatible or undesirable in landscape settings or be unsuited for the intended use of the site.	223
	Total	**444**

The [444] inventoried trees are generally in fair or poor health and condition and have moderate or poor retention suitability. The inventoried trees did not meet the moderate risk reporting threshold. However, there are dead and dying cedar trees targeting the west of the parking lot, and dead and dying alder and birch trees targeting the backyards of the properties at the southwest area of assessment. Dead and dying alder trees targeting the open area were also observed at the northwest area of assessment.

4.0 Conclusions and Recommendations

The tree inventory includes [444] trees. Cedar, alder, and birch trees are the dominant species within the area of assessment. The inventoried trees are generally in fair or poor health and condition and have moderate or poor retention suitability. The inventoried trees did not meet the moderate risk reporting threshold. However, there are dead and dying cedar trees targeting the west of the parking lot, and dead and dying alder and birch trees targeting the backyards of the properties at the southwest area of assessment. Dead and dying alder trees targeting the open area were also observed at the northwest area of assessment.

Removal of these dead and dying trees is recommended for the public safety.

Should you have any questions or concerns, please do not hesitate to call me.

Yours truly,

BC PLANT HEALTH CARE INC.



Philip Kin Cho

ISA Certified Arborist #HK-1086AM
ISA Certified Arborist Municipal Specialist
ISA Tree Risk Assessment Qualification
Forester in Training #5727
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Attachments

A. Photographs



Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6



Photo 7



Photo 8



Photo 9



Photo 10



Photo 11

Tree ID	Botanical Name	Common Name	DBH (cm)	CRZ Radius from Trunk (m)	Estimated Height (m)	Estimated Dripline Radius (m)	Age	Health Condition	Live Crown Ratio	Defects	Tree Risk	Retention Suitability
537	*Betula* sp.	Birch	39	2.34	6	2	Semi-mature (20-40)	Fair	40-50%	Decay at pruning wound Dead branch	Low	Moderate
538	*Betula* sp.	Birch	28	1.68	8	4	Semi-mature (20-40)	Fair	>50%	Cavity at pruning wound	Low	Moderate
539	*Betula* sp.	Birch	36	2.16	10	5	Semi-mature (20-40)	Poor	40-50%	Dead top	Low	Poor
540	*Pinus* sp.	Pine	33	1.98	12	4	Semi-mature (20-40)	Fair	40-50%	-	Low	Moderate
541	*Pseudotsuga menziesii*	Douglas-fir	35	2.10	7	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
542	*Alnus* sp.	Alder	121	7.26	13	7	Mature (40+)	Fair	30-40%	Dead trunk Dead branches	Low	Poor
543	*Alnus* sp.	Alder	74	4.44	13	4	Semi-mature (20-40)	Fair	>50%	-	Low	Poor
544	*Alnus* sp.	Alder	34	2.04	13	3	Semi-mature (20-40)	Fair	40-50%	-	Low	Poor
545	*Alnus* sp.	Alder	49	2.94	13	4	Mature (40+)	Fair	40-50%	Dead branches	Low	Poor
546	*Alnus* sp.	Alder	74	4.44	12	4	Semi-mature (20-40)	Poor	30-40%	Dead branches Dead top	Low	Poor
547	*Alnus* sp.	Alder	37	2.22	12	3	Semi-mature (20-40)	Fair	40-50%	-	Low	Poor
548	*Alnus* sp.	Alder	32	1.92	12	3	Semi-mature (20-40)	Fair	30-40%	-	Low	Poor
549	*Thuja* sp.	Cedar	33	1.98	8	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
550	*Thuja* sp.	Cedar	27	1.62	9	4	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
551	*Thuja* sp.	Cedar	22	1.32	7	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
552	*Thuja* sp.	Cedar	61	3.66	10	4	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
553	*Alnus* sp.	Alder	39	2.34	10	4	Semi-mature (20-40)	Fair	30-40%	-	Low	Poor
554	*Alnus* sp.	Alder	40	2.40	13	4	Mature (40+)	Fair	30-40%	-	Low	Poor
555	*Betula* sp.	Birch	24	1.44	10	2	Semi-mature (20-40)	Poor	20-30%	Dead top	Low	Poor
556	*Pseudotsuga menziesii*	Douglas-fir	22	1.32	7	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
557	*Betula* sp.	Birch	36	2.16	12	5	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
558	*Thuja* sp.	Cedar	66	3.96	12	4	Mature (40+)	Fair	>50%	-	Low	Moderate
559	*Pinus* sp.	Pine	27	1.62	6	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate

Tree ID	Botanical Name	Common Name	DBH (cm)	CRZ Radius from Trunk (m)	Estimated Height (m)	Estimated Dripline Radius (m)	Age	Health Condition	Live Crown Ratio	Defects	Tree Risk	Retention Suitability
560	*Thuja* sp.	Cedar	84	5.04	15	7	Mature (40+)	Fair	>50%	-	Low	Moderate
561	*Thuja* sp.	Cedar	42	2.52	13	4	Mature (40+)	Fair	>50%	-	Low	Moderate
562	*Thuja* sp.	Cedar	88	5.28	15	5	Mature (40+)	Fair	>50%	-	Low	Moderate
563	*Alnus* sp.	Alder	44	2.64	14	4	Mature (40+)	Fair	>50%	-	Low	Poor
564	*Thuja* sp.	Cedar	42	2.52	12	3	Mature (40+)	Fair	>50%	-	Low	Moderate
565	*Betula* sp.	Birch	36	2.16	13	4	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
566	*Thuja* sp.	Cedar	56	3.36	14	5	Mature (40+)	Fair	>50%	-	Low	Moderate
567	*Betula* sp.	Birch	58	3.48	13	3	Semi-mature (20-40)	Fair	40-50%	Trunk crack	Low	Moderate
568	*Thuja* sp.	Cedar	63	3.78	15	6	Mature (40+)	Fair	>50%	-	Low	Moderate
569	*Prunus* sp.	Cherry	26	1.56	5	4	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
570	*Thuja* sp.	Cedar	27	1.62	10	4	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
571	*Thuja* sp.	Cedar	54	3.24	13	5	Mature (40+)	Fair	>50%	-	Low	Moderate
572	*Betula* sp.	Birch	33	1.98	12	2	Semi-mature (20-40)	Fair	30-40%	Canker	Low	Poor
573	*Acer macrophyllum*	Bigleaf maple	37	2.22	12	6	Semi-mature (20-40)	Fair	30-40%	-	Low	Moderate
574	*Thuja* sp.	Cedar	59	3.54	13	5	Mature (40+)	Fair	>50%	-	Low	Moderate
575	*Thuja* sp.	Cedar	43	2.58	6	4	Mature (40+)	Fair	>50%	Topped with epicormics	Low	Poor
576	*Betula* sp.	Birch	76	4.56	12	5	Semi-mature (20-40)	Fair	>50%	Trunk crack Wound	Low	Moderate
577	*Thuja* sp.	Cedar	37	2.22	13	3	Semi-mature (20-40)	Fair	>50%	Trunk wound	Low	Moderate
578	*Thuja* sp.	Cedar	44	2.64	10	5	Mature (40+)	Fair	>50%	-	Low	Moderate
579	*Thuja* sp.	Cedar	22	1.32	5	4	Semi-mature (20-40)	Fair	>50%	Topped	Low	Poor
580	*Pinus* sp.	Pine	22	1.32	5	3	Young (5-20)	Fair	40-50%	-	Low	Moderate
581	*Thuja* sp.	Cedar	22	1.32	9	2	Semi-mature (20-40)	Fair	40-50%	-	Low	Moderate
582	*Betula* sp.	Birch	29	1.74	11	5	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
583	*Alnus* sp.	Alder	51	3.06	12	5	Mature (40+)	Fair	30-40%	-	Low	Poor
584	*Betula* sp.	Birch	46	2.76	12	4	Mature (40+)	Fair	>50%	Trunk cavity	Low	Poor

Tree ID	Botanical Name	Common Name	DBH (cm)	CRZ Radius from Trunk (m)	Estimated Height (m)	Estimated Dripline Radius (m)	Age	Health Condition	Live Crown Ratio	Defects	Tree Risk	Retention Suitability
585	*Thuja* sp.	Cedar	44	2.64	13	4	Mature (40+)	Fair	>50%	Basal decay	Low	Moderate
586	*Thuja* sp.	Cedar	39	2.34	13	4	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
587	*Thuja* sp.	Cedar	56	3.36	15	4	Mature (40+)	Fair	>50%	-	Low	Moderate
588	*Thuja* sp.	Cedar	23	1.38	9	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
589	*Thuja* sp.	Cedar	58	3.48	15	4	Mature (40+)	Fair	>50%	-	Low	Moderate
590	*Thuja* sp.	Cedar	46	2.76	13	5	Mature (40+)	Fair	>50%	-	Low	Moderate
591	*Thuja* sp.	Cedar	39	2.34	15	4	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
592	*Thuja* sp.	Cedar	56	3.36	14	4	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
593	*Thuja* sp.	Cedar	29	1.74	15	4	Semi-mature (20-40)	Fair	40-50%	-	Low	Moderate
594	*Betula* sp.	Birch	37	2.22	14	5	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
595	*Thuja* sp.	Cedar	33	1.98	12	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
596	*Thuja* sp.	Cedar	25	1.50	12	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
597	*Alnus* sp.	Alder	28	1.68	13	3	Semi-mature (20-40)	Fair	30-40%	-	Low	Poor
598	*Thuja* sp.	Cedar	40	2.40	13	4	Mature (40+)	Fair	>50%	-	Low	Moderate
599	*Thuja* sp.	Cedar	103	6.18	14	5	Mature (40+)	Fair	>50%	-	Low	Moderate
600	*Thuja* sp.	Cedar	50	3.00	13	4	Mature (40+)	Fair	>50%	-	Low	Moderate
601	*Betula* sp.	Birch	28	1.68	10	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
602	*Thuja* sp.	Cedar	31	1.86	10	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
603	*Thuja* sp.	Cedar	21	1.26	10	2	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
604	*Acer macrophyllum*	Bigleaf maple	50	3.00	15	6	Mature (40+)	Fair	>50%	-	Low	Moderate
605	*Thuja* sp.	Cedar	55	3.30	15	4	Mature (40+)	Fair	>50%	-	Low	Moderate
606	*Thuja* sp.	Cedar	50	3.00	13	4	Mature (40+)	Fair	>50%	-	Low	Moderate
607	*Thuja* sp.	Cedar	47	2.82	13	3	Mature (40+)	Fair	>50%	-	Low	Moderate
608	*Alnus* sp.	Alder	36	2.16	4	0	Semi-mature (20-40)	Dead	<20%	Wildlifed	Low	Poor
609	*Thuja* sp.	Cedar	36	2.16	4	0	Semi-mature (20-40)	Dead	<20%	Wildlifed	Low	Poor
610	*Thuja* sp.	Cedar	49	2.94	12	3	Mature (40+)	Fair	>50%	-	Low	Moderate

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611	*Betula* sp.	Birch	37	2.22	12	3	Semi-mature (20-40)	Fair	30-40%	Canker	Low	Poor
612	*Thuja* sp.	Cedar	51	3.06	14	4	Mature (40+)	Fair	>50%	-	Low	Moderate
613	*Thuja* sp.	Cedar	23	1.38	10	4	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
614	*Thuja* sp.	Cedar	73	4.38	13	3	Mature (40+)	Fair	>50%	-	Low	Moderate
615	*Thuja* sp.	Cedar	36	2.16	3	0	Semi-mature (20-40)	Dead	<20%	Wildlifed	Low	Poor
616	*Thuja* sp.	Cedar	54	3.24	6	5	Mature (40+)	Fair	>50%	Topped	Low	Poor
617	*Pseudotsuga menziesii*	Douglas-fir	27	1.62	6	3	Semi-mature (20-40)	Fair	30-40%	Topped	Low	Poor
618	*Alnus* sp.	Alder	54	3.24	15	4	Mature (40+)	Fair	>50%	-	Low	Poor
619	*Thuja* sp.	Cedar	36	2.16	12	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
620	*Thuja* sp.	Cedar	51	3.06	15	5	Mature (40+)	Fair	>50%	-	Low	Moderate
621	*Thuja* sp.	Cedar	84	5.04	15	5	Mature (40+)	Fair	>50%	-	Low	Moderate
622	*Thuja* sp.	Cedar	64	3.84	15	4	Mature (40+)	Fair	>50%	-	Low	Moderate
623	*Alnus* sp.	Alder	34	2.04	14	5	Semi-mature (20-40)	Fair	30-40%	Sap flow Canker	Low	Poor
624	*Thuja* sp.	Cedar	84	5.04	15	4	Mature (40+)	Fair	>50%	-	Low	Moderate
625	*Thuja* sp.	Cedar	98	5.88	15	5	Mature (40+)	Fair	>50%	-	Low	Moderate
626	*Thuja* sp.	Cedar	63	3.78	6	4	Mature (40+)	Fair	>50%	Topped Cavity	Low	Poor
627	*Alnus* sp.	Alder	39	2.34	15	3	Semi-mature (20-40)	Fair	20-30%	-	Low	Poor
628	*Thuja* sp.	Cedar	35	2.10	15	4	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
629	*Thuja* sp.	Cedar	24	1.44	9	2	Semi-mature (20-40)	Fair	40-50%	Topped	Low	Poor
630	*Thuja* sp.	Cedar	61	3.66	9	5	Mature (40+)	Fair	>50%	-	Low	Moderate
631	*Thuja* sp.	Cedar	38	2.28	13	2	Semi-mature (20-40)	Poor	40-50%	Dead top	Low	Poor
632	*Alnus* sp.	Alder	37	2.22	12	3	Semi-mature (20-40)	Poor	30-40%	Dead branches Trunk cavity	Low	Poor
633	*Thuja* sp.	Cedar	50	3.00	14	3	Mature (40+)	Fair	>50%	-	Low	Moderate

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634	*Thuja* sp.	Cedar	56	3.36	10	2	Mature (40+)	Fair	>50%	-	Low	Moderate
635	*Alnus* sp.	Alder	33	1.98	11	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
636	*Thuja* sp.	Cedar	72	4.32	10	4	Mature (40+)	Fair	>50%	-	Low	Moderate
637	*Thuja* sp.	Cedar	93	5.58	13	5	Mature (40+)	Fair	>50%	-	Low	Moderate
638	*Thuja* sp.	Cedar	35	2.10	13	2	Semi-mature (20-40)	Fair	20-30%	Sparse foliage	Low	Poor
639	*Thuja* sp.	Cedar	44	2.64	13	0	Mature (40+)	Dead	<20%	-	Low	Poor
640	*Alnus* sp.	Alder	40	2.40	12	2	Mature (40+)	Fair	30-40%	-	Low	Poor
641	*Thuja* sp.	Cedar	34	2.04	12	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
642	*Thuja* sp.	Cedar	31	1.86	12	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
643	*Thuja* sp.	Cedar	38	2.28	12	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
644	*Thuja* sp.	Cedar	34	2.04	13	2	Semi-mature (20-40)	Fair	30-40%	-	Low	Moderate
645	*Thuja* sp.	Cedar	20	1.20	10	2	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
646	*Thuja* sp.	Cedar	29	1.74	10	2	Semi-mature (20-40)	Fair	40-50%	-	Low	Moderate
647	*Thuja* sp.	Cedar	46	2.76	11	4	Mature (40+)	Fair	>50%	-	Low	Moderate
648	*Thuja* sp.	Cedar	21	1.26	6	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
649	*Thuja* sp.	Cedar	69	4.14	20	6	Mature (40+)	Fair	>50%	Wound	Low	Poor
650	*Thuja* sp.	Cedar	27	1.62	10	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
651	*Alnus* sp.	Alder	46	2.76	15	4	Mature (40+)	Fair	>50%	-	Low	Poor
652	*Thuja* sp.	Cedar	21	1.26	5	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
653	*Alnus* sp.	Alder	45	2.70	14	5	Mature (40+)	Fair	>50%	-	Low	Poor
654	*Thuja* sp.	Cedar	30	1.80	11	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
655	*Thuja* sp.	Cedar	28	1.68	12	2	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
656	*Thuja* sp.	Cedar	35	2.10	11	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
657	*Pseudotsuga menziesii*	Douglas-fir	53	3.18	13	4	Mature (40+)	Fair	40-50%	-	Low	Moderate
658	*Thuja* sp.	Cedar	26	1.56	10	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
659	*Populus* sp.	Cottonwood	120	7.20	30	8	Mature (40+)	Fair	40-50%	-	Low	Poor

Tree ID	Botanical Name	Common Name	DBH (cm)	CRZ Radius from Trunk (m)	Estimated Height (m)	Estimated Dripline Radius (m)	Age	Health Condition	Live Crown Ratio	Defects	Tree Risk	Retention Suitability
660	*Alnus* sp.	Alder	35	2.10	2	0	Semi-mature (20-40)	Dead	<20%	Wildlifed	Low	Poor
661	*Thuja* sp.	Cedar	37	2.22	11	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
662	*Populus* sp.	Cottonwood	110	6.60	25	6	Mature (40+)	Fair	40-50%	-	Low	Poor
663	*Thuja* sp.	Cedar	49	2.94	13	4	Mature (40+)	Fair	>50%	-	Low	Moderate
664	*Thuja* sp.	Cedar	57	3.42	12	4	Mature (40+)	Poor	>50%	Sparse foliage	Low	Poor
665	*Alnus* sp.	Alder	35	2.10	11	3	Semi-mature (20-40)	Fair	30-40%	-	Low	Poor
666	*Alnus* sp.	Alder	24	1.44	12	4	Semi-mature (20-40)	Fair	>50%	-	Low	Poor
667	*Alnus* sp.	Alder	37	2.22	12	3	Semi-mature (20-40)	Fair	20-30%	-	Low	Poor
668	*Thuja* sp.	Cedar	83	4.98	17	5	Mature (40+)	Fair	>50%	-	Low	Moderate
669	*Thuja* sp.	Cedar	29	1.74	6	2	Semi-mature (20-40)	Fair	>50%	Topped	Low	Poor
670	*Thuja* sp.	Cedar	47	2.82	14	4	Mature (40+)	Fair	>50%	-	Low	Moderate
671	*Betula* sp.	Birch	53	3.18	12	2	Mature (40+)	Fair	40-50%	-	Low	Moderate
672	*Thuja* sp.	Cedar	95	5.70	3	0	Mature (40+)	Dead	<20%	Wildlifed	Low	Poor
673	*Thuja* sp.	Cedar	29	1.74	12	2	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
674	*Alnus* sp.	Alder	34	2.04	12	3	Semi-mature (20-40)	Fair	>50%	-	Low	Poor
675	*Thuja* sp.	Cedar	31	1.86	12	3	Semi-mature (20-40)	Fair	30-40%	-	Low	Moderate
676	*Alnus* sp.	Alder	38	2.28	20	4	Semi-mature (20-40)	Fair	>50%	-	Low	Poor
677	*Thuja* sp.	Cedar	50	3.00	17	4	Mature (40+)	Poor	20-30%	Dead top	Low	Poor
678	*Alnus* sp.	Alder	35	2.10	15	3	Semi-mature (20-40)	Fair	20-30%	-	Low	Poor
679	*Thuja* sp.	Cedar	56	3.36	15	3	Mature (40+)	Fair	>50%	-	Low	Moderate
680	*Thuja* sp.	Cedar	52	3.12	12	3	Mature (40+)	Fair	>50%	-	Low	Moderate
681	*Betula* sp.	Birch	35	2.10	12	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
682	*Thuja* sp.	Cedar	46	2.76	13	3	Mature (40+)	Fair	>50%	-	Low	Moderate
683	*Thuja* sp.	Cedar	24	1.44	12	3	Semi-mature (20-40)	Fair	30-40%	-	Low	Moderate
684	*Pseudotsuga menziesii*	Douglas-fir	48	2.88	14	3	Mature (40+)	Fair	40-50%	-	Low	Moderate
685	*Pseudotsuga menziesii*	Douglas-fir	24	1.44	13	3	Semi-mature (20-40)	Fair	40-50%	-	Low	Moderate

Tree ID	Botanical Name	Common Name	DBH (cm)	CRZ Radius from Trunk (m)	Estimated Height (m)	Estimated Dripline Radius (m)	Age	Health Condition	Live Crown Ratio	Defects	Tree Risk	Retention Suitability
686	*Thuja* sp.	Cedar	42	2.52	13	3	Mature (40+)	Fair	>50%	-	Low	Moderate
687	*Thuja* sp.	Cedar	30	1.80	13	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
688	*Thuja* sp.	Cedar	26	1.56	12	4	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
689	*Thuja* sp.	Cedar	38	2.28	12	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
690	*Thuja* sp.	Cedar	40	2.40	12	3	Mature (40+)	Fair	>50%	-	Low	Moderate
691	*Alnus* sp.	Alder	40	2.40	5	0	Mature (40+)	Dead	<20%	Wildlifed	Low	Poor
692	*Thuja* sp.	Cedar	40	2.40	7	3	Mature (40+)	Fair	>50%	Topped	Low	Poor
693	*Thuja* sp.	Cedar	73	4.38	15	4	Mature (40+)	Fair	>50%	-	Low	Moderate
694	*Alnus* sp.	Alder	57	3.42	15	3	Mature (40+)	Fair	>50%	-	Low	Poor
695	*Thuja* sp.	Cedar	59	3.54	15	4	Mature (40+)	Fair	>50%	-	Low	Moderate
696	*Thuja* sp.	Cedar	74	4.44	12	3	Mature (40+)	Fair	>50%	Canker Exposed dead wood	Low	Moderate
697	*Betula* sp.	Birch	26	1.56	13	2	Semi-mature (20-40)	Fair	40-50%	-	Low	Moderate
698	*Alnus* sp.	Alder	40	2.40	20	3	Mature (40+)	Fair	>50%	-	Low	Poor
699	*Betula* sp.	Birch	28	1.68	13	3	Semi-mature (20-40)	Fair	30-40%	-	Low	Moderate
700	*Populus* sp.	Cottonwood	109	6.54	35	10	Mature (40+)	Fair	40-50%	-	Low	Poor
701	*Thuja* sp.	Cedar	44	2.64	13	4	Mature (40+)	Fair	>50%	-	Low	Moderate
702	*Thuja* sp.	Cedar	47	2.82	13	4	Mature (40+)	Fair	>50%	-	Low	Moderate
703	*Thuja* sp.	Cedar	90	5.40	10	4	Mature (40+)	Fair	>50%	-	Low	Moderate
704	*Alnus* sp.	Alder	54	3.24	6	3	Mature (40+)	Dying	30-40%	-	Low	Poor
705	*Alnus* sp.	Alder	20	1.20	12	3	Semi-mature (20-40)	Fair	>50%	-	Low	Poor
706	*Alnus* sp.	Alder	37	2.22	15	3	Semi-mature (20-40)	Fair	>50%	-	Low	Poor
707	*Alnus* sp.	Alder	22	1.32	6	3	Semi-mature (20-40)	Fair	>50%	Missing top	Low	Poor
708	*Populus* sp.	Cottonwood	99	5.94	35	10	Mature (40+)	Fair	40-50%	-	Low	Poor
709	*Acer rubrum*	Red maple	20	1.20	10	4	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
710	*Betula* sp.	Birch	20	1.20	12	2	Semi-mature (20-40)	Fair	40-50%	-	Low	Moderate

Tree ID	Botanical Name	Common Name	DBH (cm)	CRZ Radius from Trunk (m)	Estimated Height (m)	Estimated Dripline Radius (m)	Age	Health Condition	Live Crown Ratio	Defects	Tree Risk	Retention Suitability
711	*Betula* sp.	Birch	36	2.16	12	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
712	*Alnus* sp.	Alder	73	4.38	17	4	Mature (40+)	Fair	>50%	-	Low	Poor
713	*Alnus* sp.	Alder	24	1.44	10	3	Semi-mature (20-40)	Fair	>50%	-	Low	Poor
714	*Alnus* sp.	Alder	37	2.22	15	3	Semi-mature (20-40)	Fair	>50%	-	Low	Poor
715	*Betula* sp.	Birch	36	2.16	13	1	Semi-mature (20-40)	Fair	20-30%	Dead branches	Low	Poor
716	*Betula* sp.	Birch	27	1.62	4	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
717	*Thuja* sp.	Cedar	41	2.46	12	3	Mature (40+)	Fair	>50%	-	Low	Moderate
718	*Betula* sp.	Birch	29	1.74	13	2	Semi-mature (20-40)	Fair	20-30%	-	Low	Moderate
719	*Betula* sp.	Birch	23	1.38	12	0	Semi-mature (20-40)	Dead	<20%	Fungal fruiting bodies	Low	Poor
720	*Betula* sp.	Birch	30	1.80	13	2	Semi-mature (20-40)	Fair	20-30%	-	Low	Moderate
721	*Betula* sp.	Birch	27	1.62	14	2	Semi-mature (20-40)	Fair	30-40%	-	Low	Moderate
722	*Thuja* sp.	Cedar	75	4.50	14	5	Mature (40+)	Fair	>50%	-	Low	Moderate
723	*Betula* sp.	Birch	69	4.14	14	3	Semi-mature (20-40)	Fair	30-40%	-	Low	Moderate
724	*Thuja* sp.	Cedar	36	2.16	15	4	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
725	*Betula* sp.	Birch	29	1.74	12	3	Semi-mature (20-40)	Fair	30-40%	Canker	Low	Poor
726	*Thuja* sp.	Cedar	35	2.10	13	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
727	*Thuja* sp.	Cedar	71	4.26	17	4	Mature (40+)	Fair	>50%	-	Low	Moderate
728	*Thuja* sp.	Cedar	30	1.80	12	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
729	*Quercus rubra*	Red oak	22	1.32	13	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
730	*Betula* sp.	Birch	28	1.68	17	2	Semi-mature (20-40)	Fair	20-30%	-	Low	Moderate
731	*Betula* sp.	Birch	32	1.92	15	2	Semi-mature (20-40)	Fair	20-30%	Trunk decay	Low	Poor
732	*Thuja* sp.	Cedar	47	2.82	16	3	Mature (40+)	Fair	>50%	-	Low	Moderate
733	*Thuja* sp.	Cedar	82	4.92	17	4	Mature (40+)	Fair	>50%	-	Low	Moderate
734	*Betula* sp.	Birch	42	2.52	15	2	Semi-mature (20-40)	Fair	20-30%	Trunk canker	Low	Poor
735	*Thuja* sp.	Cedar	36	2.16	11	4	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
736	*Thuja* sp.	Cedar	30	1.80	10	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate

Tree ID	Botanical Name	Common Name	DBH (cm)	CRZ Radius from Trunk (m)	Estimated Height (m)	Estimated Dripline Radius (m)	Age	Health Condition	Live Crown Ratio	Defects	Tree Risk	Retention Suitability
737	*Thuja* sp.	Cedar	80	4.80	14	3	Mature (40+)	Fair	>50%	-	Low	Moderate
738	*Betula* sp.	Birch	45	2.70	4	2	Semi-mature (20-40)	Poor	<20%	Dead top	Low	Poor
739	*Betula* sp.	Birch	30	1.80	15	2	Semi-mature (20-40)	Fair	20-30%	-	Low	Moderate
740	*Betula* sp.	Birch	35	2.10	10	2	Semi-mature (20-40)	Poor	30-40%	Missing top	Low	Poor
741	*Betula* sp.	Birch	30	1.80	11	2	Semi-mature (20-40)	Poor	>50%	Fungal fruiting bodies Dead top	Low	Poor
742	*Betula* sp.	Birch	30	1.80	9	2	Semi-mature (20-40)	Poor	>50%	Dead top	Low	Poor
743	*Betula* sp.	Birch	30	1.80	10	2	Semi-mature (20-40)	Poor	20-30%	Dead top	Low	Poor
744	*Betula* sp.	Birch	45	2.70	16	3	Semi-mature (20-40)	Fair	20-30%	-	Low	Moderate
745	*Betula* sp.	Birch	85	5.10	17	4	Semi-mature (20-40)	Poor	30-40%	Dead stem	Low	Poor
746	*Alnus* sp.	Alder	34	2.04	20	2	Semi-mature (20-40)	Fair	40-50%	-	Low	Poor
747	*Alnus* sp.	Alder	23	1.38	12	4	Semi-mature (20-40)	Fair	>50%	-	Low	Poor
748	*Betula* sp.	Birch	23	1.38	12	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
749	*Betula* sp.	Birch	46	2.76	20	5	Mature (40+)	Fair	30-40%	Basal decay	Low	Poor
750	*Thuja* sp.	Cedar	66	3.96	20	5	Mature (40+)	Fair	>50%	-	Low	Moderate
751	*Betula* sp.	Birch	27	1.62	20	3	Semi-mature (20-40)	Fair	30-40%	-	Low	Moderate
752	*Betula* sp.	Birch	53	3.18	15	3	Semi-mature (20-40)	Fair	20-30%	-	Low	Moderate
753	*Betula* sp.	Birch	42	2.52	13	2	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
754	*Betula* sp.	Birch	34	2.04	17	3	Semi-mature (20-40)	Fair	40-50%	-	Low	Moderate
755	*Betula* sp.	Birch	35	2.10	17	3	Semi-mature (20-40)	Fair	40-50%	-	Low	Moderate
756	*Populus* sp.	Cottonwood	64	3.84	30	6	Mature (40+)	Fair	30-40%	-	Low	Poor
757	*Alnus* sp.	Alder	35	2.10	6	5	Semi-mature (20-40)	Fair	30-40%	Trunk decay	Low	Poor
758	*Alnus* sp.	Alder	34	2.04	15	3	Semi-mature (20-40)	Fair	>50%	-	Low	Poor
759	*Alnus* sp.	Alder	26	1.56	15	3	Semi-mature (20-40)	Fair	>50%	-	Low	Poor
760	*Alnus* sp.	Alder	47	2.82	17	3	Mature (40+)	Fair	>50%	Dead top	Low	Poor
761	*Alnus* sp.	Alder	86	5.16	15	3	Semi-mature (20-40)	Fair	>50%	-	Low	Poor

Tree ID	Botanical Name	Common Name	DBH (cm)	CRZ Radius from Trunk (m)	Estimated Height (m)	Estimated Dripline Radius (m)	Age	Health Condition	Live Crown Ratio	Defects	Tree Risk	Retention Suitability
762	*Alnus* sp.	Alder	30	1.80	11	4	Semi-mature (20-40)	Fair	>50%	-	Low	Poor
763	*Thuja* sp.	Cedar	63	3.78	20	6	Mature (40+)	Fair	>50%	-	Low	Moderate
764	*Alnus* sp.	Alder	129	7.74	15	4	Mature (40+)	Fair	>50%	-	Low	Poor
765	*Alnus* sp.	Alder	52	3.12	14	3	Mature (40+)	Dying	20-30%	Dead top	Low	Poor
766	*Alnus* sp.	Alder	45	2.70	20	5	Mature (40+)	Fair	>50%	-	Low	Poor
767	*Betula* sp.	Birch	35	2.10	10	2	Semi-mature (20-40)	Fair	>50%	Topped	Low	Poor
768	*Thuja* sp.	Cedar	59	3.54	11	5	Mature (40+)	Fair	>50%	-	Low	Moderate
769	*Thuja* sp.	Cedar	85	5.10	18	4	Mature (40+)	Fair	>50%	-	Low	Moderate
770	*Alnus* sp.	Alder	33	1.98	15	3	Semi-mature (20-40)	Fair	>50%	Canker	Low	Poor
771	*Alnus* sp.	Alder	26	1.56	10	2	Semi-mature (20-40)	Fair	40-50%	-	Low	Poor
772	*Populus* sp.	Cottonwood	85	5.10	27	6	Mature (40+)	Fair	30-40%	-	Low	Poor
773	*Acer macrophyllum*	Bigleaf maple	50	3.00	12	5	Mature (40+)	Fair	>50%	Embedded with fence	Low	Moderate
774	*Alnus* sp.	Alder	80	4.80	12	4	Mature (40+)	Fair	>50%	Decaying stem	Low	Poor
775	*Thuja* sp.	Cedar	84	5.04	12	3	Mature (40+)	Fair	>50%	-	Low	Moderate
776	*Betula* sp.	Birch	28	1.68	11	4	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
777	*Pinus* sp.	Pine	20	1.20	3	3	Semi-mature (20-40)	Fair	>50%	Topped	Low	Poor
778	*Thuja* sp.	Cedar	34	2.04	10	4	Semi-mature (20-40)	Fair	>50%	Exposed dead wood	Low	Moderate
779	*Thuja* sp.	Cedar	91	5.46	12	3	Mature (40+)	Poor	30-40%	Dead top	Low	Poor
780	*Thuja* sp.	Cedar	34	2.04	12	4	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
781	*Populus* sp.	Cottonwood	113	6.78	17	4	Mature (40+)	Fair	>50%	Cavity	Low	Poor
782	*Populus* sp.	Cottonwood	73	4.38	17	4	Mature (40+)	Fair	>50%	-	Low	Poor
783	*Cedrus deodara*	Deodar cedar	28	1.68	6	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
784	*Ginkgo biloba*	Ginkgo	20	1.20	6	1	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
785	*Acer circinatum*	Vine maple	28	1.68	4	3	Young (5-20)	Dying	<20%	-	Low	Poor
786	*Cedrus deodara*	Deodar cedar	28	1.68	13	5	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
787	*Acer circinatum*	Vine maple	23	1.38	2	2	Semi-mature (20-40)	Dying	>50%	-	Low	Poor

Tree ID	Botanical Name	Common Name	DBH (cm)	CRZ Radius from Trunk (m)	Estimated Height (m)	Estimated Dripline Radius (m)	Age	Health Condition	Live Crown Ratio	Defects	Tree Risk	Retention Suitability
788	*Acer circinatum*	Vine maple	22	1.32	3	1	Young (5-20)	Fair	40-50%	-	Low	Moderate
789	*Hamamelis mollis*	Chinese witchhazel	21	1.26	3	3	Young (5-20)	Fair	>50%	-	Low	Moderate
790	*Acer campestre*	Hedge maple	44	2.64	8	4	Mature (40+)	Good	>50%	-	Low	Good
791	*Ginkgo biloba*	Ginkgo	21	1.26	6	2	Semi-mature (20-40)	Good	>50%	-	Low	Good
792	*Quercus palustris*	Pin oak	45	2.70	9	5	Mature (40+)	Good	>50%	-	Low	Good
793	*Quercus palustris*	Pin oak	37	2.22	7	4	Semi-mature (20-40)	Good	>50%	-	Low	Good
794	*Picea pungens*	Blue spruce	62	3.72	7	3	Semi-mature (20-40)	Good	>50%	-	Low	Good
795	*Thuja* sp.	Cedar	50	3.00	12	3	Mature (40+)	Poor	>50%	Dieback Wound	Low	Poor
796	*Thuja* sp.	Cedar	57	3.42	12	3	Mature (40+)	Fair	>50%	Dead branches	Low	Moderate
797	*Thuja* sp.	Cedar	56	3.36	13	3	Mature (40+)	Fair	>50%	-	Low	Moderate
798	*Thuja* sp.	Cedar	71	4.26	16	5	Mature (40+)	Fair	>50%	-	Low	Moderate
799	*Thuja* sp.	Cedar	67	4.02	14	4	Mature (40+)	Fair	>50%	-	Low	Moderate
800	*Thuja* sp.	Cedar	78	4.68	13	5	Mature (40+)	Fair	>50%	-	Low	Moderate
801	*Thuja* sp.	Cedar	92	5.52	14	5	Mature (40+)	Fair	>50%	-	Low	Moderate
802	*Thuja* sp.	Cedar	63	3.78	13	4	Mature (40+)	Fair	>50%	-	Low	Moderate
803	*Thuja* sp.	Cedar	78	4.68	14	5	Mature (40+)	Fair	>50%	-	Low	Moderate
804	*Thuja* sp.	Cedar	82	4.92	13	5	Mature (40+)	Fair	>50%	-	Low	Moderate
805	*Thuja* sp.	Cedar	64	3.84	13	4	Mature (40+)	Fair	>50%	Wound	Low	Moderate
806	*Thuja* sp.	Cedar	65	3.90	14	5	Mature (40+)	Fair	>50%	-	Low	Moderate
807	*Thuja* sp.	Cedar	54	3.24	14	3	Mature (40+)	Fair	>50%	-	Low	Moderate
808	*Thuja* sp.	Cedar	68	4.08	13	4	Mature (40+)	Fair	>50%	-	Low	Moderate
809	*Thuja* sp.	Cedar	59	3.54	13	4	Mature (40+)	Fair	>50%	-	Low	Moderate
810	*Thuja* sp.	Cedar	81	4.86	13	5	Mature (40+)	Fair	>50%	-	Low	Moderate
811	*Thuja* sp.	Cedar	79	4.74	15	4	Mature (40+)	Fair	>50%	-	Low	Moderate
812	*Thuja* sp.	Cedar	68	4.08	12	4	Mature (40+)	Fair	>50%	-	Low	Moderate

Tree ID	Botanical Name	Common Name	DBH (cm)	CRZ Radius from Trunk (m)	Estimated Height (m)	Estimated Dripline Radius (m)	Age	Health Condition	Live Crown Ratio	Defects	Tree Risk	Retention Suitability
813	*Thuja* sp.	Cedar	70	4.20	13	4	Mature (40+)	Fair	>50%	-	Low	Moderate
814	*Thuja* sp.	Cedar	67	4.02	12	4	Mature (40+)	Fair	>50%	-	Low	Moderate
815	*Thuja* sp.	Cedar	71	4.26	13	5	Mature (40+)	Fair	>50%	-	Low	Moderate
816	*Alnus* sp.	Alder	43	2.58	10	4	Mature (40+)	Fair	>50%	-	Low	Poor
817	*Alnus* sp.	Alder	48	2.88	15	3	Mature (40+)	Fair	>50%	-	Low	Poor
818	*Alnus* sp.	Alder	60	3.60	13	4	Mature (40+)	Poor	>50%	Dead top	Low	Poor
819	*Thuja* sp.	Cedar	63	3.78	14	4	Mature (40+)	Fair	>50%	-	Low	Moderate
820	*Thuja* sp.	Cedar	60	3.60	13	5	Mature (40+)	Poor	40-50%	Dead top	Low	Poor
821	*Thuja* sp.	Cedar	40	2.40	9	3	Mature (40+)	Dying	30-40%	Dead top	Low	Poor
822	*Thuja* sp.	Cedar	27	1.62	12	3	Semi-mature (20-40)	Poor	>50%	-	Low	Poor
823	*Alnus* sp.	Alder	45	2.70	15	3	Mature (40+)	Fair	>50%	Hanger	Low	Poor
824	*Thuja* sp.	Cedar	35	2.10	12	3	Semi-mature (20-40)	Poor	>50%	Dead top	Low	Poor
825	*Thuja* sp.	Cedar	40	2.40	11	4	Mature (40+)	Fair	>50%	-	Low	Moderate
826	*Thuja* sp.	Cedar	57	3.42	10	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
827	*Thuja* sp.	Cedar	37	2.22	11	4	Semi-mature (20-40)	Dying	>50%	-	Low	Poor
828	*Thuja* sp.	Cedar	37	2.22	12	4	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
829	*Thuja* sp.	Cedar	54	3.24	12	5	Mature (40+)	Poor	30-40%	Dead top	Low	Poor
830	*Alnus* sp.	Alder	34	2.04	10	3	Semi-mature (20-40)	Poor	40-50%	Dead top	Low	Poor
831	*Thuja* sp.	Cedar	65	3.90	13	4	Mature (40+)	Poor	30-40%	Dead top	Low	Poor
832	*Thuja* sp.	Cedar	30	1.80	10	2	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
833	*Alnus* sp.	Alder	39	2.34	13	3	Semi-mature (20-40)	Poor	30-40%	-	Low	Poor
834	*Alnus* sp.	Alder	40	2.40	11	4	Mature (40+)	Dying	20-30%	Dead top	Low	Poor
835	*Populus* sp.	Cottonwood	100	6.00	30	7	Mature (40+)	Fair	>50%	-	Low	Poor
836	*Thuja* sp.	Cedar	93	5.58	11	4	Mature (40+)	Fair	>50%	-	Low	Moderate
837	*Thuja* sp.	Cedar	32	1.92	8	3	Semi-mature (20-40)	Dying	20-30%	Dead top	Low	Poor
838	*Thuja* sp.	Cedar	38	2.28	9	3	Semi-mature (20-40)	Fair	>50%	Wound	Low	Moderate

Tree ID	Botanical Name	Common Name	DBH (cm)	CRZ Radius from Trunk (m)	Estimated Height (m)	Estimated Dripline Radius (m)	Age	Health Condition	Live Crown Ratio	Defects	Tree Risk	Retention Suitability
839	*Thuja* sp.	Cedar	47	2.82	10	3	Mature (40+)	Fair	>50%	-	Low	Moderate
840	*Thuja* sp.	Cedar	43	2.58	10	3	Mature (40+)	Fair	>50%	-	Low	Moderate
841	*Thuja* sp.	Cedar	42	2.52	10	3	Mature (40+)	Fair	>50%	-	Low	Moderate
842	*Thuja* sp.	Cedar	32	1.92	5	2	Semi-mature (20-40)	Dying	20-30%	Topped Dead top	Low	Poor
843	*Thuja* sp.	Cedar	24	1.44	5	2	Semi-mature (20-40)	Dying	20-30%	Topped Dead top	Low	Poor
844	*Populus* sp.	Cottonwood	150	9.00	35	8	Mature (40+)	Fair	>50%	-	Low	Poor
845	*Pinus* sp.	Pine	27	1.62	10	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
846	*Alnus* sp.	Alder	32	1.92	10	3	Semi-mature (20-40)	Fair	40-50%	-	Low	Poor
847	*Populus* sp.	Cottonwood	108	6.48	35	7	Mature (40+)	Fair	>50%	-	Low	Poor
848	*Thuja* sp.	Cedar	54	3.24	10	0	Mature (40+)	Dead	<20%	-	Low	Poor
849	*Alnus* sp.	Alder	31	1.86	13	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
850	*Parrotia persica*	Persian ironwood	25	1.50	6	3	Young (5-20)	Good	>50%	-	Low	Good
851	*Thuja* sp.	Cedar	40	2.40	10	4	Mature (40+)	Fair	>50%	-	Low	Moderate
852	*Thuja* sp.	Cedar	44	2.64	9	2	Semi-mature (20-40)	Poor	>50%	Dead top	Low	Poor
853	*Tilia* sp.	Linden	31	1.86	6	2	Young (5-20)	Fair	>50%	-	Low	Moderate
854	*Thuja* sp.	Cedar	41	2.46	7	3	Mature (40+)	Fair	>50%	-	Low	Moderate
855	*Thuja* sp.	Cedar	36	2.16	7	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
856	*Alnus* sp.	Alder	47	2.82	9	3	Mature (40+)	Fair	>50%	Trunk wound Decay	Low	Poor
857	*Thuja* sp.	Cedar	74	4.44	10	3	Mature (40+)	Fair	>50%	-	Low	Moderate
858	*Betula* sp.	Birch	67	4.02	11	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
859	*Betula* sp.	Birch	59	3.54	10	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
860	*Thuja* sp.	Cedar	50	3.00	10	3	Mature (40+)	Fair	>50%	-	Low	Moderate
861	*Pinus* sp.	Pine	22	1.32	10	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor

Tree ID	Botanical Name	Common Name	DBH (cm)	CRZ Radius from Trunk (m)	Estimated Height (m)	Estimated Dripline Radius (m)	Age	Health Condition	Live Crown Ratio	Defects	Tree Risk	Retention Suitability
862	*Betula* sp.	Birch	21	1.26	12	2	Semi-mature (20-40)	Fair	30-40%	-	Low	Moderate
863	*Betula* sp.	Birch	69	4.14	12	3	Semi-mature (20-40)	Fair	>50%	Trunk decay	Low	Poor
864	*Thuja* sp.	Cedar	77	4.62	12	4	Mature (40+)	Fair	>50%	-	Low	Moderate
865	*Thuja* sp.	Cedar	101	6.06	12	3	Mature (40+)	Fair	>50%	-	Low	Moderate
866	*Populus* sp.	Cottonwood	153	9.18	35	7	Mature (40+)	Fair	>50%	-	Low	Poor
867	*Populus* sp.	Cottonwood	26	1.56	14	2	Semi-mature (20-40)	Fair	>50%	-	Low	Poor
868	*Alnus* sp.	Alder	35	2.10	11	2	Young (5-20)	Fair	40-50%	-	Low	Poor
869	*Betula* sp.	Birch	30	1.80	10	3	Semi-mature (20-40)	Poor	>50%	Dead top Canker	Low	Poor
870	*Thuja* sp.	Cedar	62	3.72	10	2	Mature (40+)	Fair	>50%	-	Low	Moderate
871	*Thuja* sp.	Cedar	76	4.56	11	3	Mature (40+)	Fair	>50%	-	Low	Moderate
872	*Betula* sp.	Birch	27	1.62	10	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
873	*Betula* sp.	Birch	33	1.98	12	3	Semi-mature (20-40)	Poor	30-40%	Dead top	Low	Poor
874	*Alnus* sp.	Alder	20	1.20	4	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
875	*Alnus* sp.	Alder	31	1.86	9	3	Semi-mature (20-40)	Fair	>50%	-	Low	Poor
876	*Betula* sp.	Birch	21	1.26	11	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
877	*Acer macrophyllum*	Bigleaf maple	20	1.20	10	3	Semi-mature (20-40)	Fair	40-50%	-	Low	Moderate
878	*Betula* sp.	Birch	71	4.26	9	5	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
879	*Betula* sp.	Birch	37	2.22	12	3	Semi-mature (20-40)	Dying	20-30%	Dead top	Low	Poor
880	*Thuja* sp.	Cedar	47	2.82	10	3	Mature (40+)	Fair	>50%	-	Low	Moderate
881	*Betula* sp.	Birch	23	1.38	12	3	Semi-mature (20-40)	Fair	30-40%	-	Low	Moderate
882	*Betula* sp.	Birch	30	1.80	13	3	Semi-mature (20-40)	Fair	30-40%	-	Low	Moderate
883	*Betula* sp.	Birch	59	3.54	12	3	Semi-mature (20-40)	Fair	40-50%	-	Low	Moderate
884	*Betula* sp.	Birch	26	1.56	13	2	Semi-mature (20-40)	Fair	40-50%	-	Low	Moderate
885	*Betula* sp.	Birch	59	3.54	15	3	Semi-mature (20-40)	Fair	40-50%	-	Low	Moderate
886	*Betula* sp.	Birch	26	1.56	12	1	Semi-mature (20-40)	Dying	<20%	Dead top	Low	Poor

Tree ID	Botanical Name	Common Name	DBH (cm)	CRZ Radius from Trunk (m)	Estimated Height (m)	Estimated Dripline Radius (m)	Age	Health Condition	Live Crown Ratio	Defects	Tree Risk	Retention Suitability
887	*Betula* sp.	Birch	22	1.32	8	2	Semi-mature (20-40)	Fair	30-40%	-	Low	Moderate
888	*Thuja* sp.	Cedar	48	2.88	10	3	Mature (40+)	Poor	30-40%	Dead top	Low	Poor
889	*Thuja* sp.	Cedar	47	2.82	13	3	Mature (40+)	Fair	>50%	-	Low	Moderate
890	*Alnus* sp.	Alder	32	1.92	11	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
891	*Thuja* sp.	Cedar	38	2.28	11	4	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
892	*Betula* sp.	Birch	110	6.60	12	4	Mature (40+)	Fair	>50%	Dead stem	Low	Poor
893	*Thuja* sp.	Cedar	70	4.20	2	0	Mature (40+)	Dead	<20%	Wildlifed	Low	Poor
894	*Acer macrophyllum*	Bigleaf maple	101	6.06	13	5	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
895	*Acer macrophyllum*	Bigleaf maple	34	2.04	13	5	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
896	*Betula* sp.	Birch	24	1.44	13	2	Semi-mature (20-40)	Fair	20-30%	-	Low	Moderate
897	*Alnus* sp.	Alder	45	2.70	10	5	Mature (40+)	Fair	>50%	-	Low	Poor
898	*Populus* sp.	Cottonwood	130	7.80	35	7	Mature (40+)	Fair	40-50%	-	Low	Poor
899	*Thuja* sp.	Cedar	45	2.70	11	4	Mature (40+)	Fair	>50%	-	Low	Moderate
900	*Acer circinatum*	Vine maple	52	3.12	6	2	Young (5-20)	Fair	>50%	-	Low	Moderate
901	*Betula* sp.	Birch	21	1.26	11	2	Semi-mature (20-40)	Fair	30-40%	Trunk decay	Low	Poor
902	*Acer platanoides*	Norway maple	21	1.26	8	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
903	*Thuja* sp.	Cedar	83	4.98	12	5	Mature (40+)	Fair	>50%	-	Low	Moderate
904	*Betula* sp.	Birch	49	2.94	10	3	Mature (40+)	Fair	>50%	Severe decay Fungal fruiting bodies	Low	Poor
905	*Betula* sp.	Birch	27	1.62	3	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
906	*Betula* sp.	Birch	34	2.04	9	2	Semi-mature (20-40)	Dying	20-30%	Dead top	Low	Poor
907	*Betula* sp.	Birch	59	3.54	8	1	Semi-mature (20-40)	Dying	30-40%	Dead stems	Low	Poor
908	*Alnus* sp.	Alder	45	2.70	10	3	Mature (40+)	Fair	>50%	-	Low	Poor
909	*Populus* sp.	Cottonwood	150	9.00	35	8	Mature (40+)	Fair	40-50%	-	Low	Poor
910	*Alnus* sp.	Alder	61	3.66	12	3	Mature (40+)	Fair	>50%	-	Low	Poor
911	*Alnus* sp.	Alder	20	1.20	5	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor

Tree ID	Botanical Name	Common Name	DBH (cm)	CRZ Radius from Trunk (m)	Estimated Height (m)	Estimated Dripline Radius (m)	Age	Health Condition	Live Crown Ratio	Defects	Tree Risk	Retention Suitability
912	*Betula* sp.	Birch	20	1.20	7	1	Semi-mature (20-40)	Fair	40-50%	-	Low	Moderate
913	*Betula* sp.	Birch	23	1.38	9	2	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
914	*Betula* sp.	Birch	52	3.12	11	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
915	*Betula* sp.	Birch	32	1.92	8	2	Semi-mature (20-40)	Fair	>50%	Missing top	Low	Poor
916	*Betula* sp.	Birch	32	1.92	12	2	Semi-mature (20-40)	Poor	30-40%	Dead top	Low	Poor
917	*Betula* sp.	Birch	38	2.28	4	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
918	*Alnus* sp.	Alder	45	2.70	10	0	Mature (40+)	Dead	<20%	-	Low	Poor
919	*Alnus* sp.	Alder	42	2.52	8	3	Mature (40+)	Fair	40-50%	Missing top	Low	Poor
920	*Populus* sp.	Cottonwood	60	3.60	35	5	Mature (40+)	Fair	>50%	-	Low	Poor
921	*Betula* sp.	Birch	37	2.22	12	2	Semi-mature (20-40)	Fair	>50%	Dead top	Low	Poor
922	*Thuja* sp.	Cedar	104	6.24	12	3	Mature (40+)	Fair	>50%	-	Low	Moderate
923	*Parrotia persica*	Persian ironwood	51	3.06	7	4	Semi-mature (20-40)	Good	>50%	-	Low	Good
924	*Alnus* sp.	Alder	58	3.48	7	3	Semi-mature (20-40)	Fair	>50%	Basal decay	Low	Poor
925	*Tilia* sp.	Linden	30	1.80	7	3	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
926	*Populus* sp.	Cottonwood	65	3.90	20	3	Mature (40+)	Fair	>50%	-	Low	Poor
927	*Populus* sp.	Cottonwood	120	7.20	27	7	Mature (40+)	Fair	>50%	-	Low	Poor
928	*Populus* sp.	Cottonwood	100	6.00	20	5	Mature (40+)	Fair	>50%	Trunk wound	Low	Poor
929	*Populus* sp.	Cottonwood	80	4.80	25	5	Mature (40+)	Fair	>50%	-	Low	Poor
930	*Populus* sp.	Cottonwood	60	3.60	25	4	Mature (40+)	Fair	>50%	-	Low	Poor
931	*Populus* sp.	Cottonwood	50	3.00	13	3	Mature (40+)	Fair	>50%	Missing top	Low	Poor
932	*Alnus* sp.	Alder	30	1.80	8	2	Semi-mature (20-40)	Poor	>50%	Dead top	Low	Poor
933	*Populus* sp.	Cottonwood	100	6.00	30	6	Mature (40+)	Fair	>50%	-	Low	Poor
934	*Populus* sp.	Cottonwood	52	3.12	23	3	Mature (40+)	Fair	>50%	-	Low	Poor
935	*Populus* sp.	Cottonwood	110	6.60	25	6	Mature (40+)	Fair	>50%	-	Low	Poor
936	*Populus* sp.	Cottonwood	90	5.40	30	5	Mature (40+)	Fair	>50%	-	Low	Poor
937	*Populus* sp.	Cottonwood	70	4.20	25	5	Mature (40+)	Fair	>50%	-	Low	Poor

Tree ID	Botanical Name	Common Name	DBH (cm)	CRZ Radius from Trunk (m)	Estimated Height (m)	Estimated Dripline Radius (m)	Age	Health Condition	Live Crown Ratio	Defects	Tree Risk	Retention Suitability
938	*Alnus* sp.	Alder	40	2.40	5	3	Semi-mature (20-40)	Fair	>50%	Basal cavity	Low	Poor
939	*Alnus* sp.	Alder	43	2.58	3	0	Mature (40+)	Dead	<20%	-	Low	Poor
940	*Alnus* sp.	Alder	71	4.26	14	4	Mature (40+)	Dying	20-30%	Dead top	Low	Poor
941	*Acer rubrum*	Red maple	29	1.74	10	4	Semi-mature (20-40)	Fair	>50%	-	Low	Moderate
942	*Alnus* sp.	Alder	34	2.04	13	3	Semi-mature (20-40)	Dying	30-40%	Dead top	Low	Poor
943	*Alnus* sp.	Alder	33	1.98	4	0	Semi-mature (20-40)	Dead	<20%	Wildlifed	Low	Poor
944	*Alnus* sp.	Alder	38	2.28	5	0	Semi-mature (20-40)	Dead	<20%	Wildlifed	Low	Poor
945	*Betula* sp.	Birch	34	2.04	11	2	Semi-mature (20-40)	Poor	20-30%	Dead top	Low	Poor
946	*Alnus* sp.	Alder	46	2.76	12	4	Mature (40+)	Poor	>50%	Dieback	Low	Poor
947	*Alnus* sp.	Alder	36	2.16	12	3	Semi-mature (20-40)	Dying	20-30%	Dead top	Low	Poor
948	*Alnus* sp.	Alder	44	2.64	13	5	Mature (40+)	Poor	>50%	Dead top	Low	Poor
949	*Alnus* sp.	Alder	36	2.16	3	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
950	*Alnus* sp.	Alder	49	2.94	13	4	Semi-mature (20-40)	Fair	>50%	-	Low	Poor
951	*Alnus* sp.	Alder	35	2.10	13	3	Semi-mature (20-40)	Fair	>50%	-	Low	Poor
952	*Alnus* sp.	Alder	33	1.98	15	3	Semi-mature (20-40)	Poor	20-30%	-	Low	Poor
953	*Alnus* sp.	Alder	29	1.74	10	4	Semi-mature (20-40)	Fair	>50%	-	Low	Poor
954	*Alnus* sp.	Alder	51	3.06	12	4	Mature (40+)	Fair	>50%	-	Low	Poor
955	*Alnus* sp.	Alder	34	2.04	4	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
956	*Alnus* sp.	Alder	25	1.50	13	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
957	*Alnus* sp.	Alder	37	2.22	17	3	Semi-mature (20-40)	Fair	30-40%	-	Low	Poor
958	*Alnus* sp.	Alder	24	1.44	4	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
959	*Alnus* sp.	Alder	23	1.38	13	2	Semi-mature (20-40)	Poor	>50%	Dead top	Low	Poor
960	*Alnus* sp.	Alder	69	4.14	12	2	Semi-mature (20-40)	Poor	>50%	Dead top	Low	Poor
961	*Alnus* sp.	Alder	32	1.92	13	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
962	*Alnus* sp.	Alder	30	1.80	3	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
963	*Alnus* sp.	Alder	36	2.16	13	3	Semi-mature (20-40)	Poor	>50%	Dead top	Low	Poor

Tree ID	Botanical Name	Common Name	DBH (cm)	CRZ Radius from Trunk (m)	Estimated Height (m)	Estimated Dripline Radius (m)	Age	Health Condition	Live Crown Ratio	Defects	Tree Risk	Retention Suitability
964	*Alnus* sp.	Alder	26	1.56	9	2	Semi-mature (20-40)	Poor	>50%	Dead top	Low	Poor
965	*Alnus* sp.	Alder	35	2.10	6	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
966	*Alnus* sp.	Alder	45	2.70	15	2	Mature (40+)	Dying	20-30%	Dead top	Low	Poor
967	*Alnus* sp.	Alder	24	1.44	11	2	Semi-mature (20-40)	Fair	>50%	-	Low	Poor
968	*Alnus* sp.	Alder	31	1.86	10	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
969	*Alnus* sp.	Alder	20	1.20	6	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
970	*Alnus* sp.	Alder	25	1.50	3	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
971	*Alnus* sp.	Alder	38	2.28	12	3	Semi-mature (20-40)	Fair	>50%	Dieback	Low	Poor
972	*Alnus* sp.	Alder	41	2.46	12	3	Mature (40+)	Dying	<20%	Dead top	Low	Poor
973	*Alnus* sp.	Alder	42	2.52	8	3	Mature (40+)	Fair	>50%	-	Low	Poor
974	*Alnus* sp.	Alder	39	2.34	11	4	Semi-mature (20-40)	Fair	>50%	-	Low	Poor
975	*Alnus* sp.	Alder	23	1.38	10	2	Semi-mature (20-40)	Fair	>50%	-	Low	Poor
976	*Alnus* sp.	Alder	44	2.64	10	3	Mature (40+)	Fair	>50%	Trunk decay Dead branches	Low	Poor
977	*Alnus* sp.	Alder	42	2.52	9	4	Mature (40+)	Fair	>50%	-	Low	Poor
978	*Alnus* sp.	Alder	44	2.64	13	0	Mature (40+)	Dead	<20%	-	Low	Poor
979	*Alnus* sp.	Alder	26	1.56	3	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor
980	*Alnus* sp.	Alder	32	1.92	3	0	Semi-mature (20-40)	Dead	<20%	-	Low	Poor



Drawing No.	Sheet Title		Project Title	Project Address
1 of 2	Aerial Site Map		Arborist Report for a Tree Resource Evaluation	Winskill Park - 5575 9 Ave, Delta
			Project No.	Client Name
Page 26 of 30	Revision No.	N/A	City of Delta 20200805	Luke Chapman - Senior Project Manager

0 10 20
Meters

Production Date: September 1st, 2020

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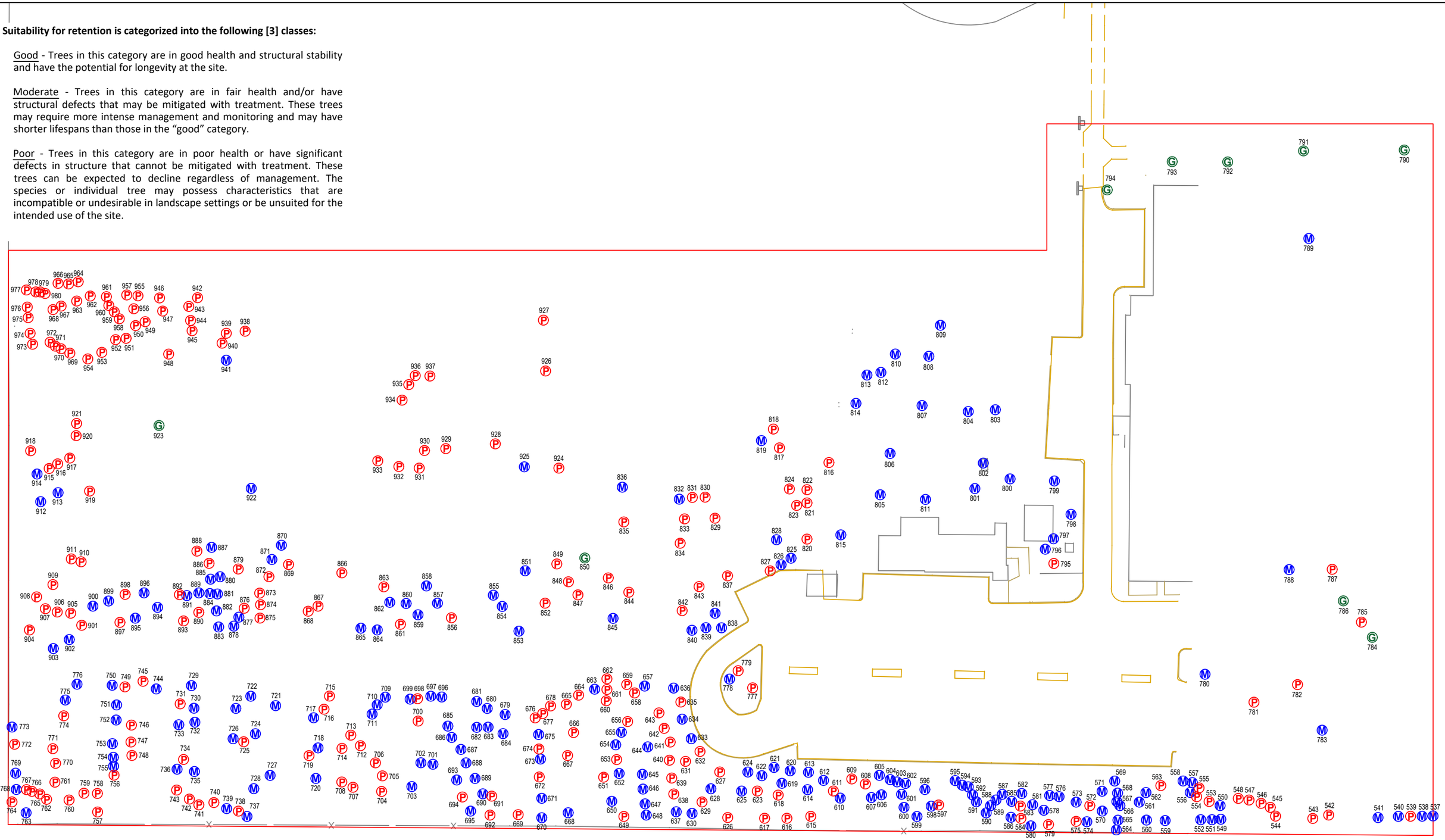
LEGEND	
	Area of Assessment
537	Tree Reference
	Tree Location

Suitability for retention is categorized into the following [3] classes:

Good - Trees in this category are in good health and structural stability and have the potential for longevity at the site.

Moderate - Trees in this category are in fair health and/or have structural defects that may be mitigated with treatment. These trees may require more intense management and monitoring and may have shorter lifespans than those in the “good” category.

Poor - Trees in this category are in poor health or have significant defects in structure that cannot be mitigated with treatment. These trees can be expected to decline regardless of management. The species or individual tree may possess characteristics that are incompatible or undesirable in landscape settings or be unsuited for the intended use of the site.



Drawing No.	Sheet Title		Project Title	Project Address
2 of 2	Tree Retention Suitability Map		Arborist Report for a Tree Resource Evaluation	Winskill Park - 5575 9 Ave, Delta
			Project No.	Client Name
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LEGEND

Area of Assessment	Retention Suitability - Good
537 Tree Reference	Retention Suitability - Moderate
	Retention Suitability - Poor

E. Qualitative Tree Risk Assessment Guidelines (TRAQ)

Qualitative risk assessment is the process of using ratings of the likelihood and consequences of an event to determine a risk level and evaluate the level of risk against qualitative criteria.

This matrix is used to ***estimate the likelihood of a tree failure impacting a specified target***				
Likelihood of Failure	*Likelihood of Impact*			
	Very Low	*Low*	*Medium*	*High*
Imminent	Unlikely	Somewhat likely	Likely	Very likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

Likelihood of Failure

Improbable – the tree or tree part is not likely to fail during normal weather conditions and may not fail in extreme weather conditions within the specified time frame.

Possible – failure may be expected in extreme weather conditions, but it is unlikely during normal weather conditions within the specified time frame.

Probable – failure may be expected under normal weather conditions within the specified time frame.

Imminent – failure has started or is most likely to occur in the near future, even if there is no significant wind or increased load. This is an infrequent occurrence for a risk assessor to encounter, and it may require immediate action to protect people from harm. The imminent category overrides the stated time frame.

Likelihood of Impact

Very low – the chance of the failed tree or tree part impacting the specified target is remote. Likelihood of impact could be very low if the target is outside the anticipated target zone or if occupancy rates are rare. Another example of very low likelihood of impact is people in an occasionally used area with protection against being struck by the tree failure due to the presence of other trees or structures between the tree being assessed and the targets.

Low – there is a slight chance that the failed tree or tree part will impact the target. This is the case for people in an occasionally used area with no protection factors and no predictable direction of fall, a frequently used area that is partially protected, or a constant target that is well protected from the assessed tree. Examples are vehicles on an occasionally used service road next to the assessed tree, or a frequently used street that has a large tree providing protection between vehicles on the street and the assessed tree.

Medium – the failed tree or tree part could impact the target but is not expected to do so. This is the case for people in a frequently used area when the direction of fall may or may not be toward the target. An

example of a medium likelihood of impacting people could be passengers in a car traveling on an arterial street (frequent occupancy) next to the assessed tree with a large, dead branch over the street.

High – the failed tree or tree part is likely to impact the target. This is the case when there is a constant target with no protection factors, and the direction of fall is toward the target.

Risk rating matrix showing the ***level of risk as the combination of likelihood of a tree failing and impacting a specified target, and severity of the associated consequences.***

Likelihood of Failure and Impact	*Consequences of Failure*			
	Negligible	*Minor*	*Significant*	*Severe*
Very likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat likely	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low

Consequences of Failure

Negligible – no personal injury, low-value property damage, or disruptions that can be replaced or repaired.

Minor – minor personal injury, low-to-moderate value property damage, or small disruption of activities.

Significant – substantial personal injury, moderate- to high-value property damage, or considerable disruption of activities.

Severe – serious personal injury or death, high-value property damage, or major disruption of important activities.

Overall Tree Risk Rating

Low – some trees with this level of risk may benefit from mitigation and maintenance measures, but immediate action is not usually required. Tree risk assessors may recommend retaining and monitoring these trees, as well as mitigation that does not include removal of the tree.

Moderate – the tree risk assessor may recommend mitigation and/or retaining and monitoring. The decision for mitigation and timing of treatment depends upon the risk tolerance of the tree owner or manager.

High – tree risk assessor should recommend mitigation measures be taken as soon as is practical. The decision for mitigation and timing of treatment depends upon the risk tolerance of the tree owner or risk manager.

Extreme – tree risk assessor should recommend that mitigation measures be taken as soon as possible. In some cases, this may mean immediate restriction of access to the target zone area to avoid personal injury.

F. Limitations of this Assessment

It is BC Plant Health Care Inc.'s policy to attach the following clause regarding limitations. We do this to ensure that developers or owners are clearly aware of what is technically and professionally realistic in retaining trees.

The assessment of the trees presented in this report has been made using accepted arboricultural techniques. These include a visual examination of the above-ground parts of each tree for structural defects, scars, external indications of decay such as fungal fruiting bodies, evidence of insect attack, discolored foliage, the condition of any visible root structures, the degree and direction of lean (if any), the general condition of the tree(s) and the surrounding site, and the proximity of property and people. Except where specifically noted in the report, none of the trees examined were dissected, cored, probed, or climbed, and detailed root crown examinations involving excavation were not undertaken.

Notwithstanding the recommendations and conclusions made in this report, it must be raised that trees are living organisms, and their health and vigor constantly change over time. They are not immune to changes in site conditions, or seasonal variations in the weather conditions.

While reasonable efforts have been made to ensure that the trees recommended for retention are healthy, no guarantees are offered, or implied, that these trees, or any parts of them, will remain standing. It is both professionally and practically impossible to predict with absolute certainty the behavior of any single tree or group of trees or their component parts in all circumstances. Inevitably, a standing tree will always pose some risk. Most trees have the potential for failure in the event of adverse weather conditions, and this risk can only be eliminated if the tree is removed.

Although every effort has been made to ensure that this assessment is reasonably accurate, the trees should be re-assessed periodically. The assessment presented in this report is valid at the time of inspection.