

**B.2.1c - NGET Circuits for 2021/22**

Node 1	Node 2	OHL Length (km)	Cable Length (km)	Circuit Type	R (% on 100 MVA)	X (% on 100 MVA)	B (% on 100 MVA)	Winter Rating (MVA)	Spring Rating (MVA)	Summer Rating (MVA)	Autumn Rating (MVA)
ABHA4A	EXET41	48.785	0.000	OHL	0.0778	0.9831	27.9792	2078	2078	2078	2078
ABHA4A	LAGA41	26.121	0.000	OHL	0.0417	0.5027	15.6941	2423	2327	2168	2327
ABHA4B	EXET41	49.051	0.000	OHL	0.0783	0.9885	28.1313	1389	1284	1108	1284
ABHA4B	LAGA41	26.121	0.000	OHL	0.0417	0.5027	15.6941	1389	1284	1108	1284
ABTH21	PYLE21	35.388	0.000	OHL	0.1819	1.4523	9.9528	932	879	790	879
ABTH21	TREM21	46.451	0.000	OHL	0.2267	2.1393	11.8321	682	629	538	629
ABTH21	UPPB22	26.996	0.000	OHL	0.1234	1.1426	7.3237	955	882	762	882
ABTH22	COWT2A	13.318	0.000	OHL	0.0503	0.5449	3.7580	932	879	790	879
ABTH22	UPPB21	27.035	0.547	Composite	0.1245	1.1595	13.2801	772	772	595	595
ALDW21	BRIN21	17.961	0.000	OHL	0.1442	0.7628	4.8487	626	591	535	591
ALDW21	WMEL21	8.960	0.000	OHL	0.0409	0.3891	2.3695	955	882	762	882
ALVE4A	INDQ41	97.176	0.000	OHL	0.2121	1.9367	56.1415	1389	1284	1108	1284
ALVE4A	TAUN41	73.293	0.000	OHL	0.1170	1.4770	42.0344	1389	1284	1108	1284
ALVE4B	INDQ41	97.294	0.000	OHL	0.2123	1.9391	56.2090	1389	1284	1108	1284
ALVE4B	TAUN42	73.298	0.000	OHL	0.1170	1.4771	42.0372	1389	1284	1108	1284
AMEM4A	ECLA41	35.315	0.000	OHL	0.0642	0.7026	20.4666	2009	1911	1746	1911
AMEM4A	IVER4A	20.256	0.000	OHL	0.0368	0.4030	11.7392	2009	1911	1746	1911
AMEM4B	ECLA41	35.315	0.000	OHL	0.0642	0.7026	20.4666	2032	1933	1766	1933
AMEM4B	IVER4B	20.256	0.000	OHL	0.0368	0.4030	11.7392	2032	1933	1766	1933
AXMI41	CHIC4A	30.700	8.800	Composite	0.0379	0.6609	130.8219	2779	2568	2217	2568
AXMI41	EXET41	36.184	0.000	OHL	0.0404	0.6915	21.9115	2779	2568	2217	2568
BAGB21	MAGA21	12.629	1.389	parallel Composite	0.0435	0.5216	17.0509	1204	1115	1018	1115
BAGB21	SWAN21	18.210	1.439	parallel Composite	0.0625	0.7488	19.1165	1548	1548	1431	1431
BARK21	REBR21	10.879	0.000	OHL	0.0411	0.4451	3.0706	1129	1081	1000	1081
BARK22	REBR22	10.854	0.000	OHL	0.0410	0.4441	3.0636	1205	1127	1044	1127
BARK41	CHUE4A	13.654	0.000	OHL	0.0213	0.2629	8.1589	3102	3048	2958	3048
BARK41	CHUE4B	13.654	0.000	OHL	0.0213	0.2629	8.1589	3102	3048	2958	3048
BARK41	WHAM41	9.662	0.124	Composite	0.0156	0.1915	10.4541	2009	1909	1710	1909
BARK41	WHAM41	9.662	0.000	OHL	0.0155	0.1910	5.6429	2009	1911	1746	1911
BARK41	WTHU4A	15.872	0.000	OHL	0.0289	0.3158	9.1985	2009	1911	1746	1911
BARK41	WTHU4B	15.872	0.000	OHL	0.0289	0.3158	9.1985	2009	1911	1746	1911
BEDD21	CHSI21	17.836	0.286	Composite	0.0692	0.7576	7.8243	944	882	762	835
BEDD21	WIMB21	8.500	0.968	Composite	0.0409	0.3915	11.7005	859	827	623	694
BEDD22	CHSI21	17.836	0.137	Composite	0.0689	0.7539	6.2735	762	762	662	662
BEDD23	WIMB2A	8.500	0.582	Composite	0.0398	0.3821	8.4754	995	930	728	806
BEDD4A	ROWD4B	0.000	11.676	Cable	0.0079	0.1380	127.4459	1275	1213	1084	1213
BEDD4B	ROWD4A	0.000	11.676	Cable	0.0105	0.0957	210.1680	1275	1213	1084	1213
BESW21	COVE21	18.668	0.000	OHL	0.0853	0.7901	5.0645	955	882	762	882
BESW21	COVE21	18.668	0.000	OHL	0.0853	0.7901	5.0645	955	882	762	882
BESW21	FECK21	35.814	0.000	OHL	0.1425	1.5095	9.7917	955	882	762	882
BESW21	OCHK21	56.939	0.631	Composite	0.2314	2.4189	22.4142	819	819	638	638
BICF41	SPLN41	20.109	0.000	OHL	0.0191	0.3550	13.1870	3156	3032	2823	3032
BICF41	WALP41	37.775	0.000	OHL	0.0335	0.6488	25.3895	3189	3063	2853	3063
BICF41	WBUR41	65.550	0.000	OHL	0.0581	1.1259	44.0590	3326	3160	2971	3160
BICF41	WBUR42	65.550	0.000	OHL	0.0581	1.1259	44.0590	3326	3160	2971	3160
BIRK21	CAPE21	15.448	0.000	OHL	0.0703	0.6839	4.0052	955	882	762	882
BIRK21	CAPE21	15.448	0.000	OHL	0.0703	0.6839	4.0052	955	882	762	882
BIRK21	LISD2A	0.000	12.891	Cable	0.0271	0.2978	125.0427	817	817	739	739
BISW21	FECK21	22.830	0.000	OHL	0.0938	0.9633	6.2301	955	882	762	882
BISW21	KITW21	27.111	0.000	OHL	0.1054	1.1236	7.5448	955	882	762	882
BISW21	KITW21	24.226	0.000	OHL	0.0932	1.0024	6.7545	955	882	762	882
BISW21	PENN21	30.172	0.000	OHL	0.1233	1.2726	8.2379	1040	1031	762	762
BLYT21	STEW21	26.779	0.000	OHL	0.1472	1.3916	5.9965	682	629	538	629
BLYT21	STEW21	26.711	0.000	OHL	0.1469	1.3880	5.9813	682	629	538	629
BLYT21	TYNE21	16.818	0.000	OHL	0.0742	0.7144	4.5642	1360	1310	1220	1310
BLYT21	TYNE2A	16.866	0.000	OHL	0.0744	0.7164	4.5772	1360	1310	1220	1310
BLYT41	MEDB4A	26.636	0.121	Composite	0.0426	0.5140	18.0175	2199	2092	1911	2092
BLYT41	MEDB4B	26.636	0.490	Composite	0.0429	0.5194	24.1171	2199	2092	1911	2092
BODE41	PENM4A	0.000	0.800	Cable	0.0008	0.0094	7.6404	1056	1056	980	980
BODE41	PENM4B	0.500	0.000	OHL	0.0005	0.0087	0.3284	2771	2695	2510	2695
BOLN41	LOVE41	64.774	0.000	OHL	0.0703	1.1266	42.6998	3102	2935	2765	2935
BOLN41	LOVE41	64.774	0.000	OHL	0.0703	1.1266	42.6998	2771	2771	2765	2771
BOLN41	NINF41	51.404	0.000	OHL	0.0558	0.8941	33.8862	3102	2935	2765	2935
BOLN41	NINF41	51.404	0.000	OHL	0.0558	0.8941	33.8862	3102	2935	2765	2935
BOTW41	CHIL41	7.479	0.000	OHL	0.0066	0.1285	5.0270	3341	3160	2971	3160
BOTW41	LOVE41	14.672	0.000	OHL	0.0130	0.2520	9.8617	3341	3160	2971	3160
BRAI4A	BRFO41	48.267	0.000	OHL	0.0451	0.8316	32.2964	2779	2568	2217	2568
BRAI4A	BULL41	12.343	0.000	OHL	0.0134	0.2147	8.1357	2779	2569	2217	2569

BRAI4B	PELH41	65.942	0.000	OHL	0.0650	1.1398	43.9200	2779	2568	2217	2568
BRAI4B	RAYL41	33.030	0.000	OHL	0.0358	0.5745	21.7727	2779	2568	2217	2568
BRAW21	ELLA21	16.802	0.081	Composite	0.0769	0.7134	5.4384	762	762	619	619
BRAW21	KIRK21	17.279	4.547	Composite	0.0844	0.8550	54.1379	762	762	619	619
BRAW21	MONF21	51.155	0.000	OHL	0.1174	1.8824	15.9388	1204	1115	1018	1115
BRAW4A	PADI41	59.300	0.000	OHL	0.0754	1.1321	35.9226	2470	2350	2146	2350
BRED21	MACC21	19.612	0.000	OHL	0.0768	0.8127	5.4608	948	882	753	753
BRED21	SMAN21	10.004	5.629	parallel Composite	0.0513	0.4604	46.7620	865	865	749	749
BRED21	STAL21	15.054	0.000	OHL	0.0665	0.6343	4.1113	1093	1031	925	1031
BRFO41	LEIS4A	42.357	0.000	OHL	0.0460	0.7367	27.9223	2779	2569	2217	2569
BRFO41	NORM41	61.576	0.100	Composite	0.0983	1.2420	37.3151	1590	1500	1346	1500
BRFO41	NORM41	61.576	0.100	Composite	0.0983	1.2420	37.3151	1590	1500	1346	1500
BRFO41	PELH41	69.301	0.000	OHL	0.0655	1.1949	46.3271	3102	2935	2765	2935
BRFO41	SIZE41	43.167	0.000	OHL	0.0468	0.7508	28.4562	2779	2568	2217	2568
BRFO41	SIZE41	43.167	0.000	OHL	0.0468	0.7508	28.4562	2779	2568	2217	2568
BRFO41	SIZE41	43.167	0.000	OHL	0.0468	0.7508	28.4562	2779	2568	2217	2568
BRIM2A	TOTT21	7.437	0.311	Composite	0.0345	0.3234	5.3982	1085	1031	925	1031
BRIM2A	WALX22	5.865	0.000	OHL	0.0268	0.2482	1.5911	1093	1031	925	1031
BRIM2B	TOTT24	7.305	0.393	Composite	0.0341	0.3201	6.2537	1085	1031	925	1031
BRIM2B	WALX22	5.997	0.000	OHL	0.0274	0.2538	1.6269	1093	1031	925	1031
BRIM2C	TOTT22	7.455	0.235	Composite	0.0344	0.3223	4.5788	1085	1031	925	1031
BRIM2C	WALX21	5.970	0.000	OHL	0.0273	0.2528	1.6211	1093	1031	925	1031
BRIM2D	TOTT23	7.455	0.384	Composite	0.0347	0.3264	6.1984	1085	1031	925	1031
BRIM2D	WALX21	5.970	0.000	OHL	0.0273	0.2528	1.6211	1093	1031	925	1031
BRIN21	CHTE21	22.464	0.220	Composite	0.0519	0.8305	9.3505	934	934	753	753
BRIN21	JORD21	13.257	1.489	Composite	0.0647	0.5918	16.0432	557	557	499	499
BRIN21	NORL2A	13.257	2.845	Composite	0.0708	0.6085	24.8202	419	419	381	381
BRIN21	TEMP21	2.757	0.000	OHL	0.0126	0.1170	0.7458	955	882	762	882
BRIN21	TEMP22	2.757	0.000	OHL	0.0126	0.1170	0.7458	955	882	762	882
BRIN22	CHTE21	22.375	0.000	OHL	0.0513	0.8236	6.9689	1204	1115	1018	1115
BRIN22	THUR21	5.704	0.000	OHL	0.0599	0.2384	1.5621	626	591	535	591
BRIN22	TINP21	3.170	0.000	OHL	0.0145	0.1342	0.8600	955	882	762	882
BRIN22	TINP22	3.170	0.000	OHL	0.0145	0.1342	0.8600	919	869	762	869
BRIN41	THOM41	36.299	0.000	OHL	0.0394	0.6316	23.9221	2518	2395	2188	2395
BRIN41	THOM42	36.299	0.000	OHL	0.0394	0.6316	23.9221	2545	2421	2211	2421
BRLE41	DIDC41	37.691	5.700	parallel Composite	0.0419	0.6724	87.0663	2779	2568	2217	2245
BRLE41	DIDC41	37.691	5.700	parallel Composite	0.0419	0.6719	134.3668	2277	2277	2037	2037
BRLE41	FLEE41	17.555	0.000	OHL	0.0190	0.3053	11.5725	2569	2569	2217	2569
BRLE41	FLEE41	17.555	0.000	OHL	0.0190	0.3053	11.5725	2779	2569	2217	2569
BRLE41	MELK41	81.569	0.000	OHL	0.1760	1.6326	46.8635	1389	1284	1108	1284
BRLE41	MELK41	81.569	0.000	OHL	0.1760	1.6326	46.8635	1389	1284	1108	1284
BRLE41	WWEY4A	49.375	0.000	OHL	0.0789	0.9495	29.6914	2199	2092	1911	2092
BRLE41	WWEY4B	49.375	0.000	OHL	0.0789	0.9495	29.6914	2199	2092	1911	2092
BRWA2A	HINP22	17.867	0.610	Composite	0.0827	0.7732	11.4779	767	767	620	620
BRWA2B	HINP21	17.867	0.680	Composite	0.0828	0.7752	12.2388	762	762	619	619
BULL41	RAYL41	20.646	0.000	OHL	0.0224	0.3591	13.6101	2779	2569	2217	2569
BURW41	PELH41	42.934	0.000	OHL	0.0381	0.7374	28.8562	3035	2910	2238	2515
BURW41	PELH41	42.782	0.000	OHL	0.0379	0.7348	28.7545	3326	3160	2971	3160
BURW41	WALP41	51.189	0.000	OHL	0.0454	0.8792	34.4056	3326	3160	2971	3160
BURW41	WALP41	51.183	0.000	OHL	0.0454	0.8791	34.4016	3326	3160	2971	3160
BUSH21	DRAK21	38.153	0.000	OHL	0.1460	1.6016	10.4839	1204	1115	1018	1115
BUSH21	PENN21	21.653	0.000	OHL	0.0824	0.9078	5.9595	1038	1038	762	762
BUSH21	WIEN2B	5.197	4.318	Composite	0.0311	0.3404	48.3427	762	762	681	681
BUST21	NECH21	2.648	7.648	Composite	0.0260	0.3169	76.5280	725	713	599	635
BUST21	NECH21	2.648	7.619	Composite	0.0260	0.3163	76.3606	725	713	599	635
CAMA11	IROA13	0.000	1.000	Cable	0.8150	5.5490	1.8020	246	228	198	228
CAMA12	IROA12	0.000	1.000	Cable	0.8150	5.5490	1.8020	246	228	198	228
CANT41	CANT41	0.000	0.100	Cable	0.0001	0.0012	1.0915	3102	3102	3102	3102
CANT41	CANT41	0.000	0.100	Cable	0.0001	0.0012	1.0915	3102	3102	3102	3102
CANT41	CANT41	0.000	0.100	Cable	0.0001	0.0012	1.0915	3102	3102	3102	3102
CANT41	CLEH41	14.700	0.000	OHL	0.0229	0.2820	8.8214	3102	3048	2853	3048
CANT41	KEMS4A	28.200	0.000	OHL	0.0439	0.5411	16.9228	3102	2935	2765	2935
CANT41	RICH41	25.000	0.000	OHL	0.0399	0.4808	15.0336	2038	2038	1801	1801
CANT41	RICH41	25.000	0.000	OHL	0.0399	0.4808	15.0336	2038	2038	1801	1801
CANT41	SELL4C	26.711	0.000	OHL	0.0416	0.5125	16.0297	3102	3048	2958	3048
CANT41	SELL4D	26.711	0.000	OHL	0.0416	0.5125	16.0297	3103	3048	2959	3048
CAPE1A	INCE11	0.000	1.000	Cable	0.2226	2.0652	3.2486	258	258	240	240
CAPE1B	INCE11	0.000	1.000	Cable	0.2204	2.0451	3.2416	240	240	240	240
CAPE4A	CONQ41	11.543	0.000	OHL	0.0102	0.1983	7.7586	3326	3160	2971	3160
CAPE4A	FROD41	18.404	0.000	OHL	0.0199	0.2926	13.3521	2889	2748	2418	2748
CAPE4B	CONQ41	11.543	0.000	OHL	0.0102	0.1983	7.7586	3326	3160	2971	3160

CAPE4B	FROD41	18.315	0.000	OHL	0.0198	0.2912	13.2878	2890	2749	2418	2749
CARE21	COWT2A	27.881	0.000	OHL	0.1533	1.4488	6.2406	682	629	538	629
CARE21	USKM2B	19.940	0.000	OHL	0.1096	1.0362	4.4651	682	629	538	629
CARR21	SMAN21	10.747	0.230	Composite	0.0475	0.4760	5.3274	835	835	665	665
CARR21	SMAN21	9.294	0.133	Composite	0.0414	0.4101	3.8882	835	835	665	665
CARR41	DAIN41	3.352	0.000	OHL	0.0059	0.0653	1.9776	3102	3048	2958	3048
CARR41	DAIN41	2.545	0.000	OHL	0.0043	0.0496	1.5076	2169	2084	1940	2084
CARR41	KEAR41	13.154	0.000	OHL	0.0225	0.2574	7.7626	2212	2125	1979	2125
CARR41	PEWO4A	56.900	0.000	OHL	0.0988	1.1179	33.4404	2169	2084	1940	2084
CARR4A	DAIN41	2.063	0.000	OHL	0.0035	0.0404	1.2165	1500	1500	1500	1500
CARR4B	DAIN41	2.036	0.000	OHL	0.0037	0.0405	1.1791	1553	1553	1553	1553
CELL41	DAIN41	53.412	2.310	parallel Composite	0.0847	1.0310	76.9310	2508	2508	2300	2300
CELL41	DRAK41	45.712	0.000	OHL	0.0730	0.8791	27.4871	2175	2069	1890	2069
CELL41	DRAK41	45.012	0.000	OHL	0.0719	0.8656	27.0675	2175	2069	1890	2069
CELL41	MACC41	31.617	0.000	OHL	0.0495	0.6067	18.9879	3102	3048	2958	3048
CHIC41	EXET41	67.120	8.800	Composite	0.0786	1.3565	152.8884	2779	2568	2217	2568
CHIC41	MANN41	53.913	0.000	OHL	0.0585	0.9377	35.5401	3065	2829	2418	2829
CHIC4A	MANN41	54.066	0.000	OHL	0.0587	0.9404	35.6406	3065	2829	2418	2829
CHIL41	FAWL41	0.000	3.730	Cable	0.0037	0.0235	56.9900	970	928	800	928
CHIL41	FAWL41	0.000	3.690	Cable	0.0037	0.0233	56.3800	970	928	800	928
CHIL41	LOVE41	22.379	0.315	Composite	0.0201	0.3890	20.2483	1109	1109	901	901
CHSI21	WWEY21	15.318	0.000	OHL	0.0519	0.6229	4.3510	1316	1213	1104	1213
CHSI21	WWEY22	15.347	0.000	OHL	0.0520	0.6241	4.3592	1316	1213	1104	1213
CHTE21	HIGM21	43.792	0.000	OHL	0.1218	1.8060	12.2763	1381	1339	1258	1339
CHTE21	HIGM21	43.651	0.000	OHL	0.1214	1.8002	12.2369	1381	1381	1375	1381
CHUE4A	TILB41	13.045	0.480	Composite	0.0207	0.2569	13.0341	2827	2827	2591	2591
CHUE4A	WTHU4D	2.419	0.000	OHL	0.0038	0.0488	1.3780	3102	3048	2958	3048
CHUE4B	TILB41	13.045	0.480	Composite	0.0207	0.2569	13.0341	2924	2924	2591	2591
CHUE4B	WTHU4C	2.581	0.000	OHL	0.0040	0.0519	1.4744	3102	3048	2958	3048
CILF2A	UPPB22	6.975	0.000	OHL	0.0319	0.2952	1.8923	955	882	762	882
CILF2B	UPPB21	6.975	0.000	OHL	0.0319	0.2952	1.8923	955	882	762	882
CILF41	IMPP41	25.119	0.000	OHL	0.0273	0.4396	16.4758	2779	2568	2217	2568
CILF41	RASS41	26.901	0.000	OHL	0.0292	0.4679	17.7332	2779	2568	2217	2568
CILF41	RHIG41	25.011	0.000	OHL	0.0271	0.4350	16.4876	2779	2568	2217	2568
CILF41	SWAN41	61.595	0.000	OHL	0.0668	1.0713	40.6034	2779	2568	2217	2568
CILF41	SWAN42	61.655	0.000	OHL	0.0669	1.0724	40.6428	3180	3000	2692	3000
CILF41	WHSO4A	35.208	0.000	OHL	0.0383	0.6151	23.1262	2779	2568	2217	2568
CITR41	CITR41	0.000	0.100	Cable	0.0001	0.0008	1.8000	1566	1538	1351	1424
CITR41	CITR41	0.000	0.100	Cable	0.0001	0.0008	1.8000	1733	1492	1362	1492
CITR41	PUDM41	0.000	7.290	Cable	0.0066	0.0598	131.2200	1282	1136	984	1136
CITR41	SJOW41	0.000	7.243	Cable	0.0065	0.0594	130.3740	1282	1136	984	1136
CITR41	SJOW41	0.000	6.776	Cable	0.0061	0.0556	121.9680	1282	1136	984	1136
CITR41	WHAM4B	0.000	9.390	Cable	0.0085	0.0770	169.0200	1282	1136	984	1136
CLEH41	KEMS4B	13.500	0.000	OHL	0.0210	0.2590	8.1013	3102	3048	2853	3048
CONQ41	DAIN41	60.331	0.000	OHL	0.0940	1.1575	36.2038	3102	3048	2853	3048
CONQ41	DAIN41	60.294	0.000	OHL	0.0938	1.1562	36.2009	3102	3048	2853	3048
CONQ41	FLIB41	0.000	3.495	Cable	0.0022	0.0500	43.9195	1438	1438	1389	1389
CONQ41	FLIB41	0.000	3.388	Cable	0.0022	0.0485	42.5749	1438	1438	1389	1389
CONQ41	PENM4A	30.217	0.210	Composite	0.0329	0.5280	22.2116	2665	2561	2217	2561
CONQ41	PENM4B	30.217	0.210	Composite	0.0329	0.5280	22.2116	2665	2561	2217	2561
CONQ41	TREU4A	14.323	0.000	OHL	0.0245	0.2802	8.4568	2397	2302	2144	2302
CONQ41	TREU4B	14.323	0.000	OHL	0.0245	0.2802	8.4568	2212	2125	1979	2125
COSO41	RAYL41	13.913	0.000	OHL	0.0217	0.2698	8.2601	3075	2876	2663	2876
COSO41	TILB4B	12.363	0.000	OHL	0.0193	0.2400	7.3306	2423	2327	2167	2327
COTT41	GREN41	129.478	0.000	OHL	0.2293	2.5548	75.7188	2009	1911	1746	1911
COTT41	KEAD4C	34.479	0.000	OHL	0.0592	0.6828	20.0931	2212	2125	1979	2125
COTT41	KEAD4D	34.628	0.000	OHL	0.0595	0.6858	20.1792	2212	2125	1979	2125
COTT41	RYHA4A	76.891	0.000	OHL	0.0834	1.3374	50.6872	2779	2569	2217	2569
COTT41	STAY41	27.788	0.500	parallel Composite	0.0506	0.5544	21.5604	2212	2125	1979	2052
COTT42	RYHA4B	76.816	0.000	OHL	0.0834	1.3361	50.6380	2779	2569	2217	2569
COTT42	STAY41	27.698	0.000	OHL	0.0441	0.5297	16.7334	2212	2125	1979	2125
COTT42	WBUR42	6.760	0.000	OHL	0.0105	0.1321	3.9942	3326	3160	2971	3160
COVE21	NECH21	30.715	0.000	OHL	0.0619	1.1211	9.6990	1204	1115	1018	1115
COVE21	RATS2A	64.863	0.500	Composite	0.2171	2.6384	23.3420	1000	1000	1000	1000
COWL41	CULJ4A	6.496	0.000	OHL	0.0070	0.1130	4.2822	2771	2568	2217	2568
COWL41	DIDC41	11.503	0.000	OHL	0.0125	0.2001	7.5827	2779	2568	2217	2568
COWL41	ECLA41	36.301	0.000	OHL	0.0394	0.6314	23.9301	2779	2568	2217	2568
COWL41	LEIB4A	52.495	0.000	OHL	0.0537	0.9095	34.8191	2779	2568	2217	2568
COWL41	MITY41	100.105	2.092	Composite	0.1418	1.8493	98.0711	1180	1132	877	979
COWL41	WALH41	89.553	2.092	Composite	0.1130	1.6366	92.0801	1180	1132	877	979
COWT2A	PYLE21	22.600	0.000	OHL	0.1334	0.9291	6.3441	932	879	790	879

CREB2A	HEDO21	20.347	0.000	OHL	0.0564	0.7587	6.3120	1749	1664	1520	1664
CREB2B	SAEN21	20.347	0.000	OHL	0.0564	0.7587	6.3120	1749	1664	1520	1664
CREB41	GART4A	32.081	0.000	OHL	0.0348	0.5580	21.1475	2771	2771	2663	2771
CREB41	GART4B	32.109	0.000	OHL	0.0348	0.5585	21.1659	3075	2876	2663	2876
CREB41	THTO41	29.809	0.000	OHL	0.0264	0.5120	20.0362	3075	2876	2663	2876
CREB41	THTO42	29.671	0.000	OHL	0.0263	0.5096	19.9438	3075	2876	2663	2876
CULJ4A	DIDC41	4.898	0.000	OHL	0.0053	0.0852	3.2288	2771	2568	2217	2568
DAIN41	MACC41	33.593	2.400	parallel Composite	0.0541	0.6511	66.8001	2397	2302	2144	2300
DAMC41	KINO41	0.000	0.919	Cable	0.0001	0.0005	2.6467	1528	1528	1528	1528
DIDC41	DIDC41	0.000	0.000	Series Reactor	0.0063	0.5000	0.0000	2640	2640	2640	2640
DINO41	PENT41	0.000	10.762	Cable	0.0075	0.1184	215.2400	1604	1604	1557	1557
DINO41	PENT41	4.545	6.183	Composite	0.0093	0.1402	126.9578	1623	1623	1571	1571
DRAK41	BUST41	34.592	0.000	OHL	0.0375	0.6017	22.8026	1203	1203	1103	1119
DRAK41	BUST42	34.537	0.000	OHL	0.0375	0.6007	22.7664	2779	2568	2217	2568
DRAK41	HAMH41	29.434	0.000	OHL	0.0534	0.5857	17.0575	2009	1911	1746	1911
DRAK41	OLDB4A	48.818	0.500	Composite	0.0921	0.9799	36.5074	1169	1169	1068	1068
DRAK41	RATS41	32.907	0.000	OHL	0.0582	0.6532	19.1262	2009	1911	1746	1911
DRAK41	RUGE41	20.966	0.000	OHL	0.0379	0.4173	12.1495	2009	1911	1746	1911
DRAK41	WILE41	16.937	0.000	OHL	0.0308	0.3370	9.8147	2009	1911	1746	1911
DRAX41	DRAX42	0.000	0.000	Series Reactor	0.0060	2.0000	0.0000	1769	1769	1320	1320
DRAX41	EGGB42	11.188	0.640	Composite	0.0128	0.2017	30.2999	2089	2089	1878	1878
DRAX41	FENW4A	13.443	0.000	OHL	0.0146	0.2338	8.8618	3180	3000	2692	3000
DRAX41	THTO43	22.579	0.000	OHL	0.0198	0.3877	15.2046	3820	2568	3320	3630
DRAX42	EGGB41	11.188	0.000	OHL	0.0124	0.1983	7.2605	2973	2778	2447	2778
DRAX42	THOM41	21.730	0.000	OHL	0.0311	0.3992	13.6444	2981	2867	2248	2505
DRAX42	THTO42	22.579	0.000	OHL	0.0198	0.3877	15.2046	3820	3630	3320	3630
DUNG41	NINF41	44.081	0.000	OHL	0.0391	0.7571	29.6278	3065	2829	2418	2829
DUNG41	NINF41	44.056	0.000	OHL	0.0391	0.7567	29.6111	3066	2830	2418	2830
DUNG41	SELL4E	25.387	0.000	OHL	0.0395	0.4871	15.2346	3066	2830	2418	2830
DUNG41	SELL4F	25.403	0.000	OHL	0.0396	0.4874	15.2441	3066	2830	2418	2830
EALI21	LALE21	0.000	19.658	Cable	0.0531	0.3912	167.2896	524	518	401	401
EALI21	LALE21	0.000	19.658	Cable	0.0531	0.3912	167.2896	525	525	426	426
EALI21	WISD2A	0.000	6.075	Cable	0.0121	0.1391	61.5397	750	750	735	735
EASO41	WYMO41	35.272	0.000	OHL	0.0383	0.6135	23.2517	2779	2568	2217	2568
EASO4A	RYHA4B	58.769	0.000	OHL	0.0638	1.0222	38.7404	2779	2569	2217	2569
EASO4B	RYHA4A	58.950	0.000	OHL	0.0640	1.0253	38.8593	2779	2569	2217	2569
EASO4B	WYMO41	35.272	0.000	OHL	0.0383	0.6135	23.2517	2779	2568	2217	2568
ECLA41	LEIB4B	15.985	0.000	OHL	0.0141	0.2745	10.7511	2779	2568	2217	2568
ECLA41	PAFB4A	44.720	0.000	OHL	0.0814	0.8898	25.9172	2009	1911	1746	1911
ECLA41	PAFB4B	44.886	0.000	OHL	0.0817	0.8931	26.0131	2009	1911	1746	1911
EGGB41	MONF4A	10.370	0.000	OHL	0.0113	0.1804	6.8360	1970	1970	1970	1970
EGGB41	ROCH4A	84.875	0.700	Composite	0.1416	1.6214	64.4560	1239	1239	1122	1122
EGGB41	THOM41	28.070	0.197	Composite	0.0293	0.4897	21.8489	2217	2217	1801	1801
EGGB42	FERR4A	11.864	0.000	OHL	0.0128	0.2063	7.8228	2779	2568	2217	2568
EGGB42	MONF41	10.370	0.000	OHL	0.0113	0.1804	6.8360	2779	2568	2217	2568
EGGB42	STSB4B	48.084	0.000	OHL	0.0520	0.8361	31.7071	2779	2568	2217	2568
ELLA21	FERR22	45.565	0.000	OHL	0.1573	1.8245	13.1474	1324	1260	1151	1260
ELLA21	KIRK21	33.995	5.044	Composite	0.1618	1.5765	64.0738	762	762	619	619
ELLA21	STAL21	39.600	0.000	OHL	0.1647	1.6624	10.8691	955	882	762	882
ELST12	HEND11	0.000	1.000	Cable	0.0810	0.6340	16.0100	299	275	218	275
ELST21	MILH2A	6.375	6.338	Composite	0.0548	0.3963	55.6770	524	524	430	430
ELST21	MILH2B	6.375	6.282	Composite	0.0546	0.3952	55.2004	524	524	430	430
ELST21	WARL21	59.208	0.261	Composite	0.2449	2.4665	19.2619	762	762	619	619
ELST21	WATS21	5.398	0.399	Composite	0.0254	0.2396	5.8016	762	762	619	619
ELST22	WARL21	59.244	0.590	Composite	0.2456	2.4772	22.8481	762	762	619	619
ELST22	WATS22	5.398	0.222	Composite	0.0251	0.2347	3.8776	762	762	619	619
ELST41	ELST4A	0.000	0.000	Series Reactor	0.0125	1.0000	0.0000	2000	2000	2000	2000
ELST41	SJOW41	0.000	20.000	Cable	0.0140	0.1760	244.2900	1767	1732	1663	1732
ELST4A	SUND41	34.834	0.000	OHL	0.0749	0.6969	20.0233	1590	1500	1346	1500
ELST4B	SUND42	34.706	0.000	OHL	0.0747	0.6944	19.9464	1590	1500	1346	1500
ENDE41	PAFB4A	41.130	0.000	OHL	0.0709	0.8051	24.2569	2009	1911	1746	1911
ENDE41	PAFB4B	41.130	0.000	OHL	0.0709	0.8051	24.2569	2009	1911	1746	1911
ENDE41	RATS41	36.941	0.000	OHL	0.0399	0.5872	26.8034	2779	2568	2217	2568
ENDE41	RATS41	36.873	0.000	OHL	0.0398	0.5862	26.7543	2779	2568	2217	2568
EXET41	TAUN41	38.147	0.000	OHL	0.0694	0.7590	22.1074	2009	1911	1746	1911
EXET41	TAUN42	38.107	0.000	OHL	0.0693	0.7582	22.0842	2009	1911	1746	1911
FAWL41	MANN41	57.703	3.412	Composite	0.0646	0.9849	77.9055	2779	2568	2217	2568
FAWL41	MAWO41	18.639	0.000	OHL	0.0214	0.3062	13.1667	2423	2327	2167	2327
FECK41	HAMH41	43.314	0.000	OHL	0.0780	0.8621	25.1018	2009	1911	1746	1911
FECK41	IRON41	66.123	0.000	OHL	0.1230	1.3148	38.3377	2009	1911	1746	1911
FECK41	MITY41	78.649	0.000	OHL	0.1527	1.5677	45.4527	1967	1874	1712	1874

FECK41	WALH41	67.986	0.000	OHL	0.1237	1.3527	39.4005	1967	1875	1712	1875
FENW4A	KEAD42	42.517	0.000	parallel OHL	0.0198	0.2161	24.6399	3075	2876	2663	2876
FENW4A	THOM42	8.287	0.000	OHL	0.0165	0.1653	4.7826	2009	1911	1746	1911
FERR21	MONF21	4.485	0.000	OHL	0.0103	0.1651	1.3966	1372	1307	1207	1307
FERR21	SKLG21	20.033	0.685	Composite	0.0991	0.9874	9.8077	865	823	752	823
FERR22	FERR2B	0.554	0.160	Composite	0.0020	0.0234	1.3262	1031	1031	981	981
FERR23	FERR2A	0.586	0.000	OHL	0.0013	0.0216	0.1825	1381	1307	1227	1307
FERR2A	MONF22	3.922	0.000	OHL	0.0090	0.1444	1.2212	1204	1115	1018	1115
FERR2B	SKLG21	19.545	0.560	Composite	0.0975	0.9671	8.7544	865	823	752	823
FFES21	TRAW21	7.291	0.133	Composite	0.0771	0.3081	2.8868	480	480	330	330
FFES22	TRAW21	7.358	0.000	OHL	0.0772	0.3075	2.0153	551	512	442	512
FIDF21	FIDF23	0.000	0.000	Series Reactor	0.0125	1.0000	0.0000	750	750	750	750
FIDF21	FROD22	9.145	0.000	OHL	0.0210	0.3366	2.8484	1316	1213	1104	1213
FIDF22	FIDF24	0.000	0.000	Series Reactor	0.0125	1.0000	0.0000	750	750	750	750
FIDF22	FROD21	9.145	0.000	OHL	0.0210	0.3366	2.8484	1316	1213	1104	1213
FIDF23	RAIN21	7.963	0.000	OHL	0.0183	0.2678	2.7299	1316	1213	1104	1213
FIDF24	RAIN21	7.963	0.000	OHL	0.0183	0.2678	2.7299	1316	1213	1104	1213
FLEE41	LOVE41	41.095	0.000	OHL	0.0640	0.7885	24.6610	3140	3086	2999	3086
FLEE41	LOVE41	41.095	0.000	OHL	0.0640	0.7885	24.6610	3048	3048	2999	3048
FOUR21	HARK24	55.711	0.000	OHL	0.3289	2.3608	15.2112	854	795	700	795
FOUR21	STEW21	27.731	0.000	OHL	0.1637	1.1751	7.5717	854	795	700	795
FROD41	ROCK41	1.197	0.000	OHL	0.0022	0.0238	0.6917	1100	1100	1100	1100
GART4A	HUMR41	37.372	0.000	OHL	0.0413	0.7015	23.0779	3156	3032	2823	3032
GART4A	KEAD43	5.711	0.000	OHL	0.0062	0.0993	3.7642	3180	3000	2692	3000
GART4B	KEAD41	5.689	0.000	OHL	0.0062	0.0989	3.7497	3180	3000	2692	3000
GART4B	KILL41	34.462	0.000	OHL	0.0380	0.6467	21.2883	3156	3032	2823	3032
GRAI41	GRAI41	0.000	0.000	Series Reactor	0.0027	2.3091	0.0000	2002	2002	2002	2002
GRAI41	GRAI41	0.000	0.000	Zero Length	0.0000	0.0000	0.0000	3326	3160	2971	3160
GRAI41	GRAI41	0.000	0.000	Zero Length	0.0000	0.0000	0.0000	3326	3160	2971	3160
GRAI41	GRAI41	0.000	0.000	Zero Length	0.0000	0.0000	0.0000	3326	3160	2971	3160
GRAI41	GRAI41	0.000	0.000	Zero Length	0.0000	0.0000	0.0000	3326	3160	2971	3160
GRAI41	KEMS41	7.992	1.930	Composite	0.0106	0.1512	34.7588	2643	2570	2397	2570
GRAI41	KEMS41	7.992	1.930	Composite	0.0106	0.1512	34.7588	2643	2570	2397	2570
GRAI41	KINO41	11.507	0.800	parallel Composite	0.0126	0.2028	18.5632	3326	3160	2633	2813
GRAI41	MEDW41	2.500	0.000	OHL	0.0054	0.0513	1.3945	1390	1390	1390	1390
GRAI41	TILB41	26.642	2.049	Composite	0.0302	0.4832	61.2333	2003	2003	1939	2003
GREN41	STAY41	101.832	0.000	OHL	0.1852	2.0259	59.0223	2514	2439	2314	2439
GREN41	SUND41	39.750	0.000	OHL	0.0723	0.7909	23.0368	2009	1911	1746	1911
GREN41	SUND42	39.955	0.000	OHL	0.0727	0.7950	23.1553	2009	1911	1746	1911
GRIW41	KEAD41	49.379	0.000	OHL	0.0470	0.8730	32.3362	3075	2876	2663	2876
GRIW41	SHBA41	12.673	0.000	OHL	0.0127	0.2284	8.1498	2860	2720	2484	2720
GRSA21	LACK2A	1.016	0.150	Composite	0.0049	0.0466	1.8737	1175	1119	1023	1119
GRSA21	LACK2B	1.016	0.150	Composite	0.0049	0.0466	1.8737	1129	1119	1000	1000
GRSA21	WILT2A	0.000	1.000	Cable	0.0000	0.0110	0.0000	207	196	183	196
GRSA21	WILT2B	0.000	1.000	Cable	0.0000	0.0110	0.0000	207	198	185	198
GRSB21	LACK2B	0.630	0.150	Composite	0.0031	0.0298	1.7716	1129	1119	1000	1000
GRSB21	LACK2C	0.630	0.150	Composite	0.0031	0.0298	1.7716	1129	1119	1000	1000
GRSB21	WILT2C	0.000	1.000	Cable	0.0000	0.0110	0.0000	198	198	180	180
GRSB21	WILT2D	0.000	1.000	Cable	0.0000	0.0110	0.0000	206	204	190	204
HACK2A	TOTT2B	5.754	0.292	Composite	0.0268	0.2517	4.7350	1093	1031	926	1031
HACK2B	TOTT2A	5.754	0.292	Composite	0.0268	0.2517	4.7350	1093	1031	926	1031
HACK41	HIBU41	0.000	6.858	Cable	0.0043	0.0827	72.4072	1327	1298	1200	1298
HACK41	HIBU41	0.000	6.858	Cable	0.0043	0.0827	72.4072	1327	1298	1200	1298
HACK41	WHAM41	0.000	6.148	Cable	0.0049	0.0904	101.6264	1857	1729	1587	1729
HACK41	WHAM41	0.000	6.148	Cable	0.0049	0.0904	101.6264	1857	1729	1587	1729
HAKB1-	HARK13	1.000	0.000	OHL	0.7047	2.0317	0.4510	132	123	106	123
HAKB4-	HARK41	9.857	0.000	OHL	0.0157	0.1946	5.7661	2169	2084	1940	2084
HAKB4B	HARK41	9.857	0.000	OHL	0.0157	0.1946	5.7661	2170	2084	1941	2084
HAMB4A	HEYS41	25.850	0.000	OHL	0.0229	0.4440	17.3733	3326	3299	3098	3299
HAMB4A	PEWO41	19.698	0.752	parallel Composite	0.0308	0.3917	24.9792	2473	2473	2189	2189
HAMB4A	STAH4A	3.926	0.000	OHL	0.0085	0.0806	2.1967	240	240	240	240
HAMB4B	HEYS41	26.020	0.000	OHL	0.0231	0.4469	17.4871	3326	3326	3111	3326
HAMB4B	PEWO41	19.698	0.592	parallel Composite	0.0308	0.3911	20.9006	2473	2473	2189	2189
HAMB4B	STAH4B	3.926	0.000	OHL	0.0085	0.0806	2.1967	240	240	240	240
HAMH1A	LEMR11	0.000	1.000	Cable	0.0160	0.0980	1.9420	30	30	30	30
HAMH1B	LEMR11	0.000	1.000	Cable	0.0270	0.1290	0.4240	30	30	30	30
HAMH2A	NECH21	10.439	0.000	OHL	0.0239	0.3843	3.2511	1362	1285	1202	1285
HAMH41	WILE41	84.140	0.700	Composite	0.1206	1.5777	77.2944	2009	1912	1746	1912
HARK13	JUNV1-	1.000	0.000	OHL	1.1940	2.7290	0.7430	132	123	106	123
HARK21	HARK24	0.000	0.000	SSSC	0.0000	1.4545	0.0000	1521	1461	1361	1461
HARK22	HARK23	0.000	0.000	SSSC	0.0000	0.3174	0.0000	1521	1461	1361	1461
HARK23	STEW21	83.682	0.117	Composite	0.4944	3.5490	23.7211	774	774	676	676

HARK41	HUTT42	81.444	0.000	OHL	0.1269	1.5640	48.8314	2771	2771	2771	2771
HARK41	HUTT43	81.444	0.000	OHL	0.1269	1.5640	48.8314	2771	2771	2771	2771
HARM21	HATL21	13.983	0.000	OHL	0.0472	0.5702	3.9648	1093	1031	925	1031
HARM21	HAWP21	17.287	0.000	OHL	0.0584	0.7033	4.9126	1204	1115	1018	1115
HATL21	HAWP2A	31.443	0.000	OHL	0.1066	1.2811	8.9228	1093	1031	925	1031
HATL21	SALH21	7.794	0.000	OHL	0.0327	0.3353	2.0878	1382	1279	1157	1279
HATL21	TODP21	18.433	0.000	OHL	0.0713	0.7756	5.0465	1148	1086	1021	1086
HAWP21	NORT21	30.238	0.459	Composite	0.0719	1.1367	14.2369	908	874	720	801
HAWP21	OFFE21	9.514	0.000	OHL	0.0379	0.3948	2.6412	1093	1031	925	1031
HAWP2A	WBOL21	17.721	0.000	OHL	0.0705	0.7355	4.9196	1175	1120	1025	1120
HAWP4A	NORT41	30.157	0.000	OHL	0.0335	0.5310	19.6771	2545	2421	2211	2421
HEDO21	SAES21	0.605	0.000	OHL	0.0017	0.0226	0.1876	1749	1664	1520	1664
HEYS41	MIDL41	0.900	0.000	OHL	0.0008	0.0155	0.6049	3326	3160	2971	3160
HEYS41	QUER4B	9.604	0.000	OHL	0.0085	0.1650	6.4553	3326	3299	3098	3299
HIBU41	SJOW41	0.000	5.814	Cable	0.0037	0.0701	61.3846	1327	1298	1200	1298
HIBU41	SJOW41	0.000	5.814	Cable	0.0037	0.0701	61.3846	1327	1298	1200	1298
HIGM21	THUR2A	46.867	0.000	OHL	0.4920	1.9585	12.7959	626	591	535	591
HIGM41	WBUR41	14.852	0.229	Composite	0.0254	0.2958	13.2571	2212	2125	1979	2125
HIGM4A	STOB41	39.671	0.000	OHL	0.0722	0.7893	22.9886	2147	2056	1904	2056
HINP41	MELK41	86.448	0.000	OHL	0.1573	1.7200	50.0998	2009	1911	1746	1911
HINP41	MELK41	86.439	0.000	OHL	0.1572	1.7198	50.0946	2009	1911	1746	1911
HINP41	TAUN41	26.644	0.000	OHL	0.0485	0.5301	15.4408	2212	2125	1979	2125
HINP41	TAUN42	26.657	0.000	OHL	0.0485	0.5304	15.4483	2212	2125	1979	2125
HUMR41	KILL41	2.879	0.000	OHL	0.0032	0.0543	1.7706	2771	2771	2771	2771
HURS21	LITT2A	5.164	2.613	Composite	0.0288	0.2786	27.8693	864	864	824	855
HURS21	LITT2B	5.140	2.659	Composite	0.0288	0.2786	28.3290	864	864	824	861
HURS21	NEWX21	0.000	21.864	Cable	0.0437	0.5007	221.4823	890	882	704	784
HURS21	NEWX21	0.000	21.106	Cable	0.0422	0.4833	213.8038	890	882	704	784
HUTT41	HUTT42	0.000	0.000	Series Capacitor	0.0000	0.5114	0.0000	2771	2771	2771	2771
HUTT41	HUTT43	0.000	0.000	Series Capacitor	0.0000	0.5114	0.0000	2771	2771	2771	2771
HUTT41	QUER4A	34.420	0.000	OHL	0.0536	0.6617	20.6138	3102	3048	2958	3048
HUTT41	QUER4B	34.420	0.000	OHL	0.0536	0.6617	20.6138	3102	3048	2958	3048
IMPP41	MELK41	78.775	3.913	Composite	0.0882	1.4129	130.2038	1424	1424	1424	1424
INDQ41	LAND41	49.565	0.000	OHL	0.1070	0.9921	28.4764	2199	2092	1911	2092
INDQ41	LAND42	49.565	0.000	OHL	0.1070	0.9921	28.4764	1389	1284	1108	1284
IROA11	OLDS12	1.000	0.000	OHL	0.2980	2.3660	3.4530	452	423	365	372
IROA12	OLDS12	1.000	0.000	OHL	0.2970	2.3610	2.6930	457	424	366	372
IROA21	MELK2A	33.683	0.380	Composite	0.1862	1.7591	10.7703	581	581	524	524
IROA21	MELK2B	33.683	0.951	Composite	0.1877	1.7704	15.6295	581	581	524	524
IROA21	WHSO2A	34.621	0.000	OHL	0.2033	1.4667	9.4554	750	750	715	750
IROA21	WHSO2B	34.555	0.000	OHL	0.2034	1.4638	9.4375	750	750	715	750
IRON41	LEGA4B	62.073	0.000	OHL	0.0991	1.1937	37.3273	2002	2002	2002	2002
IRON41	PENN4A	27.761	0.000	OHL	0.0574	0.5549	15.9851	1389	1284	1108	1284
IRON41	PENN4B	24.617	0.000	OHL	0.0488	0.4910	14.2132	1590	1500	1346	1500
IRON41	RUGE41	58.681	0.000	OHL	0.1135	1.1701	33.9045	1389	1284	1108	1284
IRON41	SHRE4A	15.129	0.000	OHL	0.0242	0.2909	9.0977	2397	2302	2144	2302
IVER21	NHYD2A	0.000	13.630	Cable	0.0600	0.3489	91.1847	419	419	381	381
IVER21	WWEY22	25.652	0.342	Composite	0.0975	1.0590	10.9579	960	960	839	839
IVER22	NHYD2B	0.000	13.630	Cable	0.0600	0.3489	91.1847	419	419	381	381
IVER22	WATS21	13.881	0.483	Composite	0.0643	0.6010	9.0158	776	776	631	631
IVER22	WATS22	13.881	0.436	Composite	0.0642	0.5997	8.5049	776	776	631	631
IVER2A	LALE21	17.186	0.402	Composite	0.0656	0.7143	9.2206	841	841	665	665
JORD21	NORL2B	0.000	2.843	Cable	0.0109	0.0719	20.1177	419	419	381	381
KEAD42	WBUR42	28.425	0.000	OHL	0.0308	0.4944	18.7376	2779	2568	2217	2568
KEAD43	KILL41	41.067	0.000	OHL	0.0403	0.7345	26.6033	3060	2931	2715	2931
KEAD43	WBUR41	28.266	0.000	OHL	0.0307	0.4916	18.6331	3326	3160	2971	3160
KEAR21	WHGA21	14.509	0.241	Composite	0.0667	0.6208	6.5558	835	835	665	665
KEAR21	WHGA21	14.509	0.129	Composite	0.0665	0.6177	5.3384	213	213	289	289
KEAR41	PADI41	39.101	0.000	OHL	0.0567	0.7296	24.2055	2169	2084	1940	2084
KEMS41	LOFI4A	38.035	0.000	OHL	0.0623	0.7260	23.0007	3102	2935	2765	2935
KEMS41	LOFI4B	37.572	0.000	OHL	0.0617	0.7176	22.7061	3102	2935	2765	2935
KENG41	SJOW41	0.000	4.769	Cable	0.0032	0.0564	52.0546	1327	1298	1200	1298
KENG41	SJOW41	0.000	4.756	Cable	0.0032	0.0562	51.9127	1327	1298	1200	1298
KENG41	WIMB41	0.000	12.329	Cable	0.0085	0.1557	134.5735	1770	1730	1600	1730
KENG41	WIMB41	0.000	12.200	Cable	0.0084	0.1541	133.1654	1770	1730	1600	1730
KENG41	WISD41	0.000	2.939	Cable	0.0020	0.0347	32.0798	1770	1730	1600	1730
KENG41	WISD42	0.000	2.989	Cable	0.0020	0.0353	32.6255	1770	1730	1600	1730
KIBY21	LISD21	0.000	10.239	Cable	0.0173	0.2966	60.8154	762	762	698	698
KIBY21	LISD21	0.000	9.518	Cable	0.0228	0.2008	86.3283	762	762	619	619
KIBY21	RAIN21	11.236	0.000	OHL	0.0258	0.3778	3.8519	1416	1339	1258	1339
KIBY21	WASF2B	10.978	0.000	OHL	0.0415	0.4491	3.0984	1521	1461	1360	1461

KIBY22	RAIN21	11.236	0.000	OHL	0.0258	0.3778	3.8519	1416	1339	1258	1339
KIBY22	WASF2A	10.945	0.000	OHL	0.0414	0.4478	3.0891	1521	1461	1360	1461
KILL41	KILL41	0.000	0.000	Series Reactor	0.0000	1.0000	0.0000	2750	2750	2750	2750
KILL41	SHBA41	17.050	0.000	OHL	0.0179	0.3134	10.7556	2860	2720	2484	2720
KINO41	KINO41	0.000	0.000	Series Reactor	0.0027	2.0000	0.0000	2002	2002	2002	2002
KINO41	NFLE41	23.626	0.000	OHL	0.0284	0.4216	15.2234	3102	2935	2692	2935
KINO41	SING41	17.685	0.000	OHL	0.0192	0.3076	11.6582	2889	2748	2510	2748
KINO41	TILB41	15.478	1.835	Composite	0.0181	0.2893	46.9053	2003	2003	1948	1948
KIRK2A	SKLG21	0.000	8.608	Cable	0.0146	0.2402	93.5689	762	762	619	619
KITW21	OCKH21	13.738	0.222	Composite	0.0525	0.5743	6.2479	772	772	619	619
KITW21	OLDB21	7.704	0.597	Composite	0.0301	0.3318	8.6639	667	667	619	619
KNAR21	MONF21	38.531	0.141	Composite	0.3393	1.6165	11.7825	551	513	443	513
KNAR21	POPP21	49.192	0.000	OHL	0.3318	2.3014	12.3127	551	513	443	513
LACK21	TODP21	5.965	0.000	OHL	0.0212	0.2477	1.6540	1148	1086	1021	1086
LACK41	SALH41	10.237	0.250	Composite	0.0184	0.2024	10.5400	1831	1739	1588	1739
LACK41	THTO41	92.075	5.700	Composite	0.1057	1.6537	264.9969	2418	2418	2030	2030
LACK41	THTO42	92.075	5.700	Composite	0.1057	1.6537	264.9969	2418	2418	2030	2030
LAGA41	LAND41	21.224	0.000	OHL	0.0339	0.4081	12.7628	2423	2327	2168	2327
LAGA41	LAND42	21.355	0.000	OHL	0.0341	0.4108	12.8376	1389	1284	1108	1284
LALE21	WWEY2A	8.395	0.000	OHL	0.0317	0.3434	2.3695	1316	1213	1104	1213
LEGA41	TREU4A	12.119	0.000	OHL	0.0135	0.2316	7.3388	2860	2720	2484	2720
LEGA41	TREU4B	12.119	0.000	OHL	0.0135	0.2316	7.3388	2860	2720	2484	2720
LEGA4A	SHRE4A	46.944	0.000	OHL	0.0750	0.9028	28.2295	2002	2002	2002	2002
LEIB4A	SUND42	13.455	0.000	OHL	0.0119	0.2311	9.0472	2779	2568	2217	2568
LEIB4B	SUND41	13.455	0.000	OHL	0.0119	0.2311	9.0472	2779	2568	2217	2568
LEIS11	SIZE11	0.000	2.149	Cable	0.0196	0.2155	4.8028	301	301	243	243
LEIS11	SIZE12	0.000	2.148	Cable	0.0195	0.2154	4.8006	301	301	243	243
LEIS11	SIZE1A	0.000	1.650	Cable	0.0150	0.1655	3.6876	301	301	243	243
LEIS11	SIZE1B	0.000	1.650	Cable	0.0150	0.1655	3.6876	301	301	243	243
LEIS4A	SIZE41	0.810	0.000	OHL	0.0009	0.0141	0.5340	2779	2569	2217	2569
LISD21	LISD2A	0.000	0.000	Series Reactor	0.0173	1.3870	0.0000	750	750	740	740
LITT41	LOFI4A	8.152	0.000	OHL	0.0127	0.1570	4.8712	3103	3048	2959	3048
LITT41	LOFI4B	8.152	0.000	OHL	0.0127	0.1570	4.8712	3055	3048	2959	3048
LITT41	WTHU4E	1.847	1.853	Composite	0.0041	0.0575	21.3295	1936	1883	1666	1815
LITT41	WTHU4F	1.847	1.853	Composite	0.0041	0.0575	21.3295	1936	1883	1666	1815
LOFI4A	ROWD4A	26.714	0.000	OHL	0.0576	0.5347	15.3479	1590	1500	1346	1500
LOFI4B	ROWD4B	26.714	0.000	OHL	0.0576	0.5347	15.3479	1590	1500	1346	1500
LOVE41	NURS41	36.477	0.000	OHL	0.0396	0.6344	24.0461	2771	2568	2217	2568
LOVE41	NURS4A	36.477	0.000	OHL	0.0396	0.6344	24.0461	2779	2568	2217	2568
MACC41	STAL4B	31.196	0.000	OHL	0.0620	0.6170	18.1761	1710	1627	1488	1627
MAGA21	PYLE21	6.238	0.000	OHL	0.0211	0.2537	1.7667	1204	1115	1018	1115
MANN41	MANN41	0.000	0.000	Zero Length	0.0000	0.0000	0.0000	3326	3160	2971	3160
MANN41	MANN41	0.000	0.000	Zero Length	0.0000	0.0000	0.0000	3326	3160	2971	3160
MANN41	NURS4A	36.411	3.412	Composite	0.0416	0.6467	62.4474	2779	2568	2217	2568
MAWO41	NURS41	7.441	0.000	OHL	0.0093	0.1281	5.0417	2423	2327	2167	2327
MEDB4A	STEW41	7.000	0.000	OHL	0.0062	0.1202	4.7050	3326	3326	3326	3326
MEDB4A	STWB4R	87.852	0.000	OHL	0.0779	1.5089	59.0491	3326	3326	3326	3326
MEDB4B	STEW41	7.000	0.000	OHL	0.0062	0.1202	4.7050	3326	3326	3326	3326
MEDB4B	STWB4Q	87.852	0.000	OHL	0.0779	1.5089	59.0491	3326	3326	3326	3326
MELK41	MITY41	28.101	0.000	OHL	0.0511	0.5591	16.2853	2105	2016	1867	2016
MELK41	MITY41	28.052	0.000	OHL	0.0510	0.5581	16.2570	2105	2016	1867	2016
MELK41	SEAB41	53.558	0.000	OHL	0.0598	0.9451	34.8897	2545	2421	2211	2421
MIDL41	QUER4A	9.704	0.000	OHL	0.0086	0.1667	6.5225	3326	3160	2971	3160
MONF22	POPP21	37.840	0.000	OHL	0.2776	1.8247	9.1701	682	629	538	629
MONF41	PADI41	87.848	0.000	OHL	0.1064	1.6286	54.7416	2518	2395	2188	2395
NECT41	NECT4A	0.000	0.000	Zero Length	0.0000	0.0000	0.0000	1364	1364	1250	1250
NECT41	NECT4B	0.000	0.000	Zero Length	0.0000	0.0000	0.0000	3326	3323	3100	3323
NECT4A	NORM41	37.492	0.000	OHL	0.0332	0.6440	25.1993	3326	3326	3317	3326
NECT4A	WALP41	41.619	0.000	OHL	0.0369	0.7148	27.9739	3326	3299	3078	3299
NECT4B	NORM41	37.492	0.000	OHL	0.0332	0.6440	25.1993	3326	3258	3060	3258
NECT4B	WALP41	41.619	0.000	OHL	0.0369	0.7148	27.9739	3326	3160	2971	3160
NEEP21	PITS21	0.851	3.975	Composite	0.0214	0.1378	26.8236	419	419	381	381
NEEP21	SHEC21	0.851	4.428	Composite	0.0234	0.1494	29.8542	419	419	381	381
NEEP4A	STSB4B	12.801	0.000	OHL	0.0276	0.2627	7.1402	2779	2568	2217	2568
NEWX21	WIMB21	0.000	13.629	Cable	0.0273	0.3121	138.0617	827	827	779	779
NEWX21	WIMB21	0.000	13.629	Cable	0.0273	0.3121	138.0617	819	819	813	813
NFLE41	SING41	5.941	0.000	OHL	0.0093	0.1140	3.5652	2889	2748	2510	2748
NFLE41	WTHU4A	7.511	0.000	OHL	0.0137	0.1494	4.3529	2004	1907	1746	1907
NFLE41	WTHU4B	7.511	0.000	OHL	0.0137	0.1494	4.3529	2004	1907	1746	1907
NORL2A	SHEC21	0.000	4.372	Cable	0.0192	0.1119	29.2487	419	419	381	381
NORL2B	PITS21	0.000	10.751	Cable	0.0473	0.2752	71.9242	419	419	381	381

NORM11	NOTR11	0.000	1.000	Cable	0.2360	0.7780	0.3150	352	265	290	290
NORM12	NOTR12	0.000	1.000	Cable	0.2362	0.7780	0.3149	324	299	324	299
NORT21	SALH21	12.178	0.000	OHL	0.0464	0.5260	3.2482	1381	1293	1197	1293
NORT41	OSBA41	83.839	0.000	OHL	0.1132	1.5930	51.0467	2009	1911	1746	1911
NORT41	OSBA42	83.839	0.000	OHL	0.1132	1.5930	51.0467	2009	1911	1746	1911
NORT41	SALH42	12.206	0.000	OHL	0.0220	0.2492	6.8880	1831	1739	1588	1739
NORT41	SPEN41	23.134	0.000	OHL	0.0276	0.4062	12.7287	2545	2421	2211	2421
NORT41	SPEN42	23.134	0.000	OHL	0.0276	0.4062	12.7287	2545	2421	2211	2421
OCHK21	WIEN2A	4.623	0.283	Composite	0.0216	0.2020	4.2819	672	672	599	599
OCHK2A	WIEN2B	4.670	0.000	OHL	0.0213	0.1977	1.2665	760	760	760	760
OFFE21	WBOL21	8.207	0.000	OHL	0.0327	0.3406	2.2784	1148	1086	1018	1086
OSBA41	THTO43	16.790	0.000	OHL	0.0182	0.2920	11.0682	2779	2568	2217	2568
OSBA42	THTO41	16.790	0.000	OHL	0.0182	0.2920	11.0682	2771	2568	2217	2568
PADI41	PEWO4B	37.608	0.000	OHL	0.0556	0.7049	23.1779	2169	2084	1940	2084
PELH41	RYEH4A	23.015	0.000	OHL	0.0250	0.4003	15.1704	2779	2568	2217	2568
PELH41	RYEH4B	23.439	0.000	OHL	0.0254	0.4077	15.4489	2779	2569	2217	2569
PELH41	SUND42	45.130	0.000	OHL	0.0487	0.7520	31.2185	3180	3000	2692	3000
PELH41	WYMO41	26.856	0.000	OHL	0.0290	0.4469	18.6034	2771	2771	2692	2771
PEMB41	SWAN41	84.697	0.000	OHL	0.0919	1.4731	55.8330	2779	2568	2217	2568
PEMB41	SWAN42	83.975	0.000	OHL	0.0911	1.4606	55.3574	2779	2568	2217	2568
PEMB41	SWAN42	84.570	0.000	OHL	0.0918	1.4709	55.7496	2779	2568	2217	2568
PEMB41	WALH41	217.727	5.468	parallel Composite	0.2372	3.8063	207.4152	2779	2568	2217	2568
PENM4A	PENT41	49.211	0.000	OHL	0.0645	0.9572	29.2535	2779	2568	2217	2568
PENM4B	PENT41	49.211	0.000	OHL	0.0645	0.9572	29.2535	2779	2568	2217	2568
PENT41	TRAW41	45.100	6.308	Composite	0.0633	0.9555	131.5497	1135	1135	992	992
PENT41	WYLF41	35.240	0.000	OHL	0.0382	0.6129	23.2307	2779	2568	2217	2568
PENT41	WYLF41	35.240	0.000	OHL	0.0382	0.6129	23.2307	2779	2568	2217	2568
PERH11	WYLF11	19.940	0.000	OHL	0.4750	4.2320	1.0947	330	330	300	300
PERH11	WYLF11	19.940	0.000	OHL	0.4750	4.2320	1.0947	333	331	304	307
PEWO2A	PEWO2C	0.000	0.000	SSSC	0.0000	0.2248	0.0000	1521	1461	1361	1461
PEWO2B	PEWO2D	0.000	0.000	SSSC	0.0000	0.5554	0.0000	1521	1461	1361	1461
PEWO2C	WASF2A	23.481	0.000	OHL	0.0887	0.9606	6.6274	1521	1461	1360	1461
PEWO2D	WASF2B	23.521	0.000	OHL	0.0889	0.9623	6.6386	1521	1461	1360	1461
PEWO41	QUER4A	31.939	0.000	OHL	0.0498	0.6128	19.1665	3102	3048	2853	3048
PEWO41	QUER4B	32.087	0.000	OHL	0.0500	0.6156	19.2551	3102	3048	2853	3048
PITS21	TEMP21	0.000	6.690	Cable	0.0294	0.1713	44.7561	419	419	381	381
PITS21	WIBA21	0.000	2.324	Cable	0.0077	0.0581	17.3370	439	439	381	381
PUDM41	WHAM4A	0.000	2.170	Cable	0.0020	0.0178	39.0600	1282	1136	984	1136
PYLE21	PYLE21	0.000	0.250	Cable	0.0004	0.0063	1.6900	1204	1115	1018	1115
RASS41	WALH41	72.788	5.269	parallel Composite	0.0799	1.2847	109.6583	2779	2568	2217	2568
RATS41	STAY4A	43.614	0.000	OHL	0.0793	0.8678	25.2757	2147	2056	1904	2056
RATS41	STOB41	26.720	0.179	Composite	0.0487	0.5326	21.4031	2147	2056	1904	2056
RATS41	WILE41	21.748	0.216	Composite	0.0397	0.4350	16.1740	1309	1309	1067	1067
RATS41	WILE41	21.684	0.000	OHL	0.0394	0.4314	12.5666	2009	1911	1746	1911
RAYL41	TILB4A	20.499	0.000	OHL	0.0319	0.3933	12.3014	2213	2126	1980	2126
REBR21	TOTT21	3.305	9.678	parallel Composite	0.0166	0.2027	106.1327	1205	1127	1044	1127
REBR22	TOTT22	3.305	11.448	parallel Composite	0.0174	0.2151	125.3726	1205	1127	1044	1127
RHIG41	SWAN41	34.340	0.000	OHL	0.0373	0.5973	22.6374	2779	2568	2217	2568
ROCH21	STAL21	31.256	0.000	OHL	0.1235	1.3183	8.5400	1324	1260	1151	1260
ROCH21	WHGA21	11.489	0.257	Composite	0.0530	0.4934	5.9105	841	841	665	665
ROCH21	WHGA21	11.489	0.238	Composite	0.0529	0.4929	5.7039	419	419	404	404
RYEH41	RYEH4B	0.137	0.000	OHL	0.0001	0.0024	0.0903	2779	2569	2217	2569
RYEH41	WALX4A	5.324	0.000	OHL	0.0058	0.0926	3.5096	2779	2568	2217	2568
RYEH4A	RYEH43	0.264	0.000	OHL	0.0004	0.0051	0.1585	2779	2569	2217	2569
RYEH4A	WALX4B	5.461	0.000	OHL	0.0059	0.0950	3.6000	2779	2568	2217	2568
RYEH4B	RYEH42	0.215	0.000	OHL	0.0003	0.0041	0.1291	2779	2569	2217	2569
SAEN21	SAES21	0.484	0.000	OHL	0.0013	0.0180	0.1501	1749	1664	1520	1664
SALH41	SALH42	0.000	0.000	SSSC	0.0000	0.1250	0.0000	2213	2126	1979	2126
SEAB41	WHSO4A	30.426	3.890	Composite	0.0374	0.5858	97.4265	1424	1424	1424	1424
SELL4A	SELL4A	0.000	0.000	Series Reactor	0.0125	1.0000	0.0000	1860	1860	1860	1860
SELL4A	SELL4C	0.000	0.257	Cable	0.0001	0.0013	9.9716	2369	2369	1642	1642
SELL4A	SELL4D	0.000	0.257	Cable	0.0001	0.0013	9.9716	2369	2369	1642	1642
SELL4A	SELL4E	0.000	0.415	Cable	0.0002	0.0022	14.9400	2369	2369	1642	1642
SELL4A	SELL4F	0.000	0.415	Cable	0.0002	0.0022	14.9400	2369	2369	1642	1642
SELL4B	SELL4C	0.257	0.000	OHL	0.0004	0.0049	0.1542	3326	3326	3326	3326
SELL4B	SELL4D	0.257	0.000	OHL	0.0004	0.0049	0.1542	3326	3326	3326	3326
SELL4B	SELL4E	0.390	0.000	OHL	0.0006	0.0075	0.2340	3326	3326	3326	3326
SELL4B	SELL4F	0.390	0.000	OHL	0.0006	0.0075	0.2340	3326	3326	3326	3326
SHRE4A	SHRE4B	0.054	0.000	OHL	0.0001	0.0010	0.0324	240	240	240	240
SPEN41	STEW41	37.795	0.126	Composite	0.0498	0.7386	24.4993	2470	2350	2146	2350
SPEN42	STEW41	37.795	0.000	OHL	0.0497	0.7368	22.4165	2470	2350	2146	2350



SPLN41	WALP41	29.234	0.000	OHL	0.0272	0.5117	19.3195	3189	3063	2853	3063
SSHI21	TYNE2A	7.028	0.000	OHL	0.0310	0.2985	1.9072	1236	1176	1065	1176
SSHI21	WBOL21	4.366	0.000	OHL	0.0200	0.1848	1.1845	1175	1120	1025	1120
STAL4A	THOM41	69.271	6.952	Composite	0.0793	1.2727	151.2452	1330	1171	1001	1171
STAL4B	STSB4A	26.581	7.031	Composite	0.0345	0.5320	124.2199	1649	1528	1399	1528
STEN11	STES11	1.000	0.000	OHL	0.0266	0.1193	0.1077	198	198	181	181
SUND41	WYMO41	18.156	0.000	OHL	0.0196	0.3020	12.5826	3048	3000	2692	3000
SWAN41	SWAN4B	0.640	0.000	OHL	0.0014	0.0128	0.3677	3048	3048	2971	3048
SWAN42	SWAN4A	0.640	0.000	OHL	0.0014	0.0128	0.3677	1389	1284	1108	1284
TEMP22	WIBA21	0.000	3.607	Cable	0.0159	0.0923	24.1308	421	421	381	381
THOM21	WMEL21	23.791	0.947	Composite	0.1105	1.0548	15.8849	764	764	698	698
THOM2A	WMEL21	24.413	0.800	Composite	0.1126	1.0793	10.5880	955	882	762	882
THUR21	THUR2A	4.653	0.000	OHL	0.0488	0.1944	1.2745	551	512	442	512
THUR2A	WMEL21	16.348	0.000	OHL	0.0746	0.7099	4.3235	955	882	762	882
TILB21	WARL21	13.065	0.000	OHL	0.0597	0.5530	3.5441	1175	1119	1023	1119
TILB21	WARL21	12.897	0.000	OHL	0.0590	0.5459	3.4987	1120	1060	990	1060
TILB41	TILB4A	0.058	0.000	OHL	0.0001	0.0012	0.0330	3102	3048	2958	3048
TILB41	TILB4B	0.059	0.000	OHL	0.0001	0.0011	0.0353	3102	3048	2853	3048
TOTT2A	TOTT22	0.000	0.000	Zero Length	0.0000	0.0000	0.0000	950	950	830	830
TOTT2A	TOTT24	0.000	0.000	Zero Length	0.0000	0.0000	0.0000	904	904	904	904
TOTT2B	TOTT21	0.000	0.000	Zero Length	0.0000	0.0000	0.0000	950	950	830	830
TOTT2B	TOTT23	0.000	0.000	Zero Length	0.0000	0.0000	0.0000	904	904	904	904
TRAW41	TREU4A	64.278	0.000	OHL	0.1002	1.2333	38.5731	3102	3048	2958	3048
TRAW41	TREU4B	64.278	0.000	OHL	0.1002	1.2333	38.5731	3102	3048	2958	3048
TREM21	USKM2A	15.048	0.000	OHL	0.0854	0.7095	3.7487	695	641	548	641
TYNE21	WBOL21	11.399	0.000	OHL	0.0510	0.4835	3.0930	1093	1031	912	1031
USKM11	USKM12	0.000	0.000	Series Reactor	0.2500	20.0000	0.0000	90	90	90	90
USKM21	USKM2A	0.692	0.000	OHL	0.0038	0.0360	0.1546	695	642	548	642
USKM21	USKM2B	0.391	0.000	OHL	0.0039	0.0167	0.1052	682	629	538	629
USKM21	WHSO21	5.841	0.000	OHL	0.0345	0.2401	1.6394	1005	956	874	956
USKM21	WHSO22	5.849	0.000	OHL	0.0345	0.2405	1.6417	1005	956	873	956
USKM2A	WHSO21	5.562	0.000	OHL	0.0306	0.2890	1.2455	695	641	548	641
USKM2B	WHSO22	5.851	0.000	OHL	0.0322	0.3040	1.3103	682	629	538	629
WBUR41	WBUR42	0.000	0.000	Series Reactor	0.0026	2.3169	0.0000	1500	1500	1500	1500
WHSO41	WHSO4A	0.077	0.000	OHL	0.0001	0.0013	0.0506	992	916	783	916
WIMB21	WIMB2A	0.000	0.000	Zero Length	0.0000	0.0000	0.0000	995	930	728	806
WTHU4C	WTHU4E	0.000	0.000	Series Reactor	0.0000	1.0000	0.0000	2400	2400	2400	2400
WTHU4D	WTHU4F	0.000	0.000	Series Reactor	0.0000	1.0000	0.0000	2400	2400	2400	2400