ᓇᓗᓇᐃᕐᓯᒍᑕᐅᒍᓐᓇᕐᑐᑦ ᖃᓄᐃᓕᕐᓂᖏᓐᓂᒃ ᖃᐅᔨᓴᕐᓗᓂ ᓄᖑᓕᕐᓱᕆᔭᓂᒃ ᐆᒪᔪᕐᓂᒃ

ᑏᕕᑦ M. ᒍᓈᓐ
ᓇᐊᑦᑉᐧᐃᑦ ᑕᑯᔭᒐᖃᕐᕕᒃ, ᒪᒋᐊᓪ ᓯᓚᑦᑐᓴᕐᕕᒃᔪᐊᖅ, ᒪᓐᑐᓇᐊᓪ, ᑯᐱᐊᒃ H3A 2K6, ᑲᓇᑕ, ᖃᕋᓴᐅᔭᒃᑯᑦ
ᑐᕌᒌᑕ david.m.green@mcgill.ca

ᐃᓱᒪᒋᔭᐅᓂᖓ: ᐆᒪᔪᑦ ᖃᓄᐃᓕᕐᓂᖏᓐᓂᒃ ᖃᐅᔨᓴᕐᓂᖅ ᐊᒻᒪᓗ ᐱᓗᐊᑦᑕᐃᓕᓂᖅ ᐆᒪᔫᓂᖏᑕ ᐊᔾᔨᒌᓐᖏᓐᓂᖏᓐᓂᒃ ᐱᑕᖃᕈᑕᐅᑐᐃᓐᓇᓇᐊᖃᒪᑦ ᓇᓗᓇᐃᔭᐃᒍᑎᓂᒃ ᐊᑎᖏᓐᓂ ᐆᒪᔪᑦ ᓇᒥᓕᒪᖕᒐᑕ ᐊᓚᒃᑲᕋᓱᐊᕐᓗᒋᑦ ᓄᖑᑐᐃᓐᓇᓇᐊᖃᕐᓂᖏᑦ ᓱᓕᔪᒥᒃ ᐊᒻᒪᓗ ᐃᑲᔪᕈᑕᐅᓗᑎᒃ ᐋᖅᑭᑦᓱᕐᑕᐅᓂᖏᓐᓄᑦ ᓯᕗᓪᓕᐅᑎᒋᐊᓖᑦ ᐱᓗᐊᑦᑕᐃᓕᔭᐅᓂᖏᑦ. ᖃᓄᐃᑑᓂᐊᖕᒐᖕᒐᑕ ᑖᒃᑯᐊ ᓇᓗᓇᐃᕐᓯᒍᑏᑦ ᐊᐃᕙᒍᑕᐅᓯᒪᔪᖅ ᖃᐅᔨᓴᕐᑎᒻᒪᓈᑦ ᑎᑎᕋᕐᓯᒪᔭᖏᓐᓂ ᐱᓗᐊᕐᑐᒥᒃ ᐃᓱᒪᒋᓪᓗᒋᑦ ᐊᓯᕈᕐᐸᓪᓕᐊᓂᖏᑕ ᐊᓚᒃᑲᐅᒪᒍᑎᖏᓐᓂᒃ ᓇᓗᓇᐃᕐᓯᒍᑏᑦ (ESUs), ᑭᓯᐊᓂ ᑕᒪᓐᓇ ᐊᑐᕐᑕᐅᔪᖅ ᐊᑐᐃᓗᐊᕐᓯᒪᓐᖏᒻᒪᑦ ᒐᕙᒪᓐᑯᑦ ᒪᓕᒐᖏᓐᓂᒃ ᐱᓪᓗᒍ ᖃᓄᐃᓕᕐᓂᖏᓐᓂᒃ ᖃᐅᔨᓴᕐᓂᖅ. ᑕᐃᒪᐃᒻᒪᑦᑕᐅᖅ ᐆᒪᔪᑦ ᐃᓱᒪᒋᔭᐅᒍᑎᖏᑦ, ᐊᔾᔨᒌᓐᖏᓯᒪᔪᑦ ᐃᓱᒪᒋᔭᑦ ᐊᓯᕈᕐᐸᓪᓕᐊᓂᖏᑕ ᐊᓚᒃᑲᐅᒪᒍᑎᖏᓐᓂᒃ ᓇᓗᓇᐃᕐᓯᒍᑏᑦ ᐃᓱᒪᒋᔭᐅᒍᑎᖏᑦ ᐋᖅᑭᕐᑕᐅᒍᓐᓇᖏᓚᑦ ᐊᑕᐅᓯᕐᒥᒃ ᑲᒪᒋᔭᐅᒍᓯᖃᓕᕐᓗᒋᑦ. ᐱᑕᖃᓇᐊᖃᕐᓂᖓ ᐊᑐᕐᑕᐅᒍᓐᓇᕐᑑᑉ ᑲᒪᔾᔪᓯᐅᔪᑉ ᓇᓗᓇᐃᕐᓱᐊᕐᓗᒋᑦ ᐊᓪᓖᑦ ᓇᓗᓇᐃᕐᓯᒋᐊᕈᑏᑦ ᖃᓄᐃᑑᓂᖏᑦ ᖃᓄᐃᓕᕐᓂᖏᓐᓂᒃ ᑲᒪᒋᔭᖃᕐᓗᓂ ᐃᕿᐊᓇᓐᖏᒍᑕᐅᕗᖅ ᐊᑐᕐᑎᓪᓗᒋᑦ ᓇᓗᓇᐃᕐᓯᒍᑕᐅᒍᓐᓇᕐᑐᑦ (DUs). ᐃᑲᔪᕈᑕᐅᓗᑎᒃ ᒪᓕᒐᕐᒧᑦ ᐱᑕᖃᑦᑕᐃᓕᑎᓪᓗᒋᑦ ᖃᓄᐃᑑᓂᖏᑦ ᐆᒪᔪᑦ ᐊᔾᔨᒌᓐᖏᖑᑎᖏᑦ ᓄᖑᑦᑕᐃᓕᑎᓪᓗᒋᑦ ᐅᑉᐸᓗᓐᓃᑦ ᐱᑕᖃᕐᑉᐸᑎᒥᓂᕐᓂᒃ ᓄᖑᑦᑕᐃᓕᑎᓪᓗᒋᑦ, ᓇᓗᓇᐃᕐᓯᒍᑕᐅᒍᓐᓇᕐᑐᑦ ᖃᐅᔨᖓᓱᐊᕐᑕᐅᐸᑉᐳᑦ ᑲᒪᒋᔭᐅᓂᖓᓂ ᐋᖅᑭᓱᐊᕐᓂᖅ ᐆᒪᔪᕐᓂᒃ ᐱᓗᐊᑦᑕᐃᓕᓂᕐᒧᑦ ᖃᓄᐃᓕᕐᓂᖏᓐᓂᒃ ᒪᓕᑦᑐᒋᑦ ᓇᒥᑐᐃᓐᓇᖅ ᐊᑐᕐᑎᑕᐅᒍᓐᓇᕐᑐᑦ ᑐᑭᒧᐊᕈᑏᑦ. ᑲᒪᔾᔪᓯᐅᔪᖅ ᐊᐱᓇᕗᖅ ᑕᒪᒃᑯᐊ ᐱᑕᖃᕐᓱᒋᔭᐅᓂᑯᓂᒃ ᓇᓗᓇᐃᕐᓯᒍᑕᐅᒍᓐᓇᕐᑐᑦ ᐊᔾᔨᒋᔭᐅᓐᖏᒍᓐᓇᕐᒪᖔᑦ ᐊᑕᐊᖃᕐᓗᓂ ᓱᓕᔪᓇᕐᑐᓂᒃ ᐋᖅᑭᑦᑕᐅᒪᔪᖅ ᓇᓗᓇᐃᔭᐃᒍᑎᓂᒃ ᐅᑉᐸᓗᓐᓃᑦ ᓱᓕᔪᓇᔭᐅᓯᐊᕐᑐᓂᒃ ᐊᓯᕈᕐᐸᓪᓕᐊᓂᖏᓐᓂᒃ, ᐊᓚᒃᑲᐅᒪᒍᑕᐅᔪᓂᒃ ᓇᓗᓇᓐᖏᒍᑎᓂᒃ ᐊᐅᖏᑎᒍᑦ ᓇᓗᓇᐃᕐᓯᒍᑎᓂᒃ, ᐅᐸᒐᐅᒋᐊᖏᑦ ᓱᓕᔪᓇᔭᐅᒍᑎᖏᑦ, ᐊᒻᒪᓗᓐᓃᑦ ᐆᒪᔪᑦ ᓄᓇᖏᓐᓂᒃ ᓇᓗᓇᐃᕐᓯᒍᑎᓂᒃ ᐃᒪᐃᑐᐊᕐᐸᑦ ᓄᖑᑐᐃᓐᓇᓇᐊᖃᕐᓱᒋᔭᐅᒍᑎᖏᑦ ᐊᔾᔨᒌᓐᖏᒻᒥᓗᑎᒃ. ᐅᖃᕐᓯᒪᓂᖏᑦ ᓇᓗᓇᐃᕐᓱᒍᑕᐅᒍᓐᓇᕐᑐᑦ ᑲᒪᒍᑕᐅᓂᖏᑦ ᐱᑕᖃᑦᑕᐃᓕᔪᑦ ᐅᖃᐅᓯᕐᓂᒃ ᐅᖃᕐᓯᒪᔪᓂᒃ ᐊᑭᑐᓂᖏᓐᓂᒃ ᖃᐅᔨᓴᓱᐊᕈᑏᑦ ᐱᓪᓗᒋᑦ ᐊᓯᕈᕐᐸᓪᓕᐊᓂᖏᑦ ᐱᒻᒪᕆᐅᓂᖏᓐᓂᒃ ᐅᑉᐸᓗᓐᓃᑦ ᐊᓚᒃᑲᐅᒪᒍᑎᖏᓐᓂᒃ. ᐅᐱᓐᓇᕐᓂ ᐆᒪᔪᕐᓂᒃ ᐱᓗᐊᑦᑕᐃᓕᓂᐅᑉ ᖃᓄᐃᓕᕐᓂᖏᓐᓂᒃ ᖃᐅᔨᓴᕐᓂᖅ ᖃᐅᔨᓴᕐᓂᒻᒪᕆᐅᓐᖏᒻᒪᑦ ᑭᓯᐊᓂ, ᐃᒪᐃᑑᖑᕐᒪᕐ; ᐊᑐᕐᓂᖅ ᖃᐅᔨᓴᕐᓂᒻᒪᕆᓐᓂᒃ ᐃᑲᔪᕈᑕᐅᓪᓗᓂ ᒪᓕᒐᕐᓂᒃ, ᓇᓗᓇᐃᕐᓯᒍᑕᐅᒍᓐᓇᕐᑐᑦ ᐃᑲᔪᕈᑕᐅᕗᑦ ᐅᔾᔨᑐᕐᓯᐊᕐᓗᓂ ᑲᒪᒋᔭᖃᕐᓂᕐᒥᒃ ᑎᑎᕋᕐᑕᐅᓂᖏᓐᓂᒃ ᑕᒪᒃᑯᐊ ᖃᓄᐃᓕᕐᓂᖏᑦ ᖃᐅᔨᓴᕐᑕᐅᒍᓐᓇᕐᐸᑦ ᐃᒪᐃᑲᓗᐊᕐᐸᑦ ᖃᐅᔨᒪᔭᐅᓂᖏᑦ ᑭᖑᓕᓈᓂᒃ ᐊᑕᓂᖏᑦ ᐊᑖᓂ ᐆᒪᔪᑦ ᖃᓄᐃᓕᕐᓂᖏᑦ ᐱᑕᖃᕐᓂᖏᒃᑲᓗᐊᕐᐸᑦ ᐅᑉᐸᓗᓐᓃᑦ ᐱᔭᓈᕐᑕᒪᓐᖏᒃᑲᓗᐊᕐᐸᑦ. ᐱᔾᔪᑕᐅᓱᓇᔭᓂᒃ ᑲᒪᒍᑎᖃᕐᓂᖅ ᐊᑐᕐᓗᒋᑦ ᓇᓗᓇᐃᕐᓯᒍᑕᐅᒍᓐᓇᕐᑐᑦ ᐊᑐᕐᑕᐅᓯᒪᕗᖅ ᐅᑯᓄᖓ ᑲᑎᒪᔨᕐᓕᑦ ᑲᒪᒋᔭᖃᕐᑐᑦ ᖃᓄᐃᓕᕐᓂᖏᓐᓂᒃ ᓄᖑᓕᕐᓱᕆᔭᑦ ᐆᒪᔪᑦ ᑲᓇᑕᒥ ᖃᓄᐃᓕᕐᓂᖏᓐᓂᒃ ᖃᐅᔨᓴᕐᑎᒃ ᐆᒪᔪᕐᓂᒃ ᐊᑖᒍᑦ ᑲᓇᑕᒥ ᐆᒪᔪᕐᓄᑦ ᐊᑦᑕᓇᕐᑐᒥᑦᑐᓄᑦ ᒪᓕᒐᕐᔪᐊᖅ.